

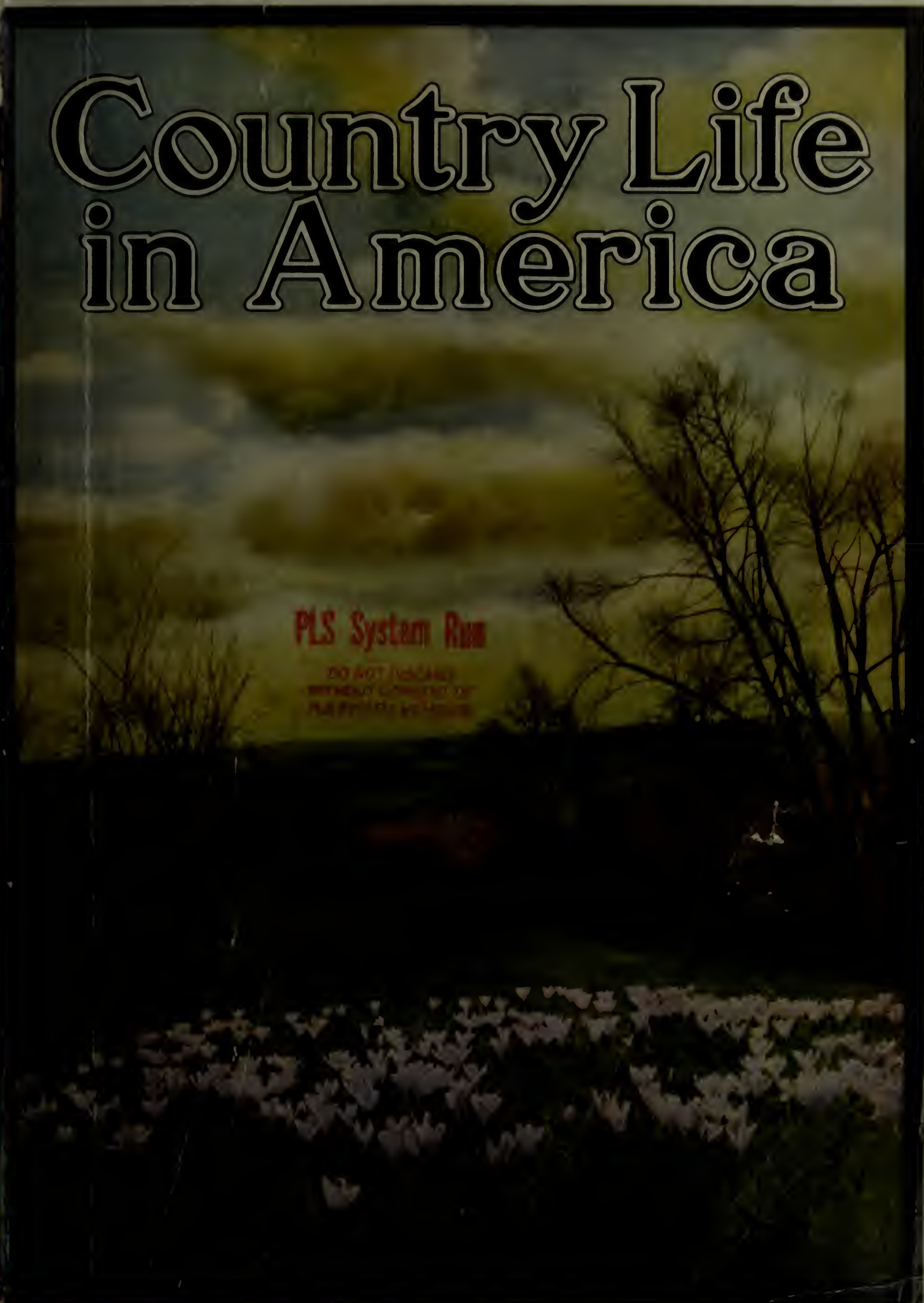
February 1  
1912  
Vol. XXI, No. 7

# America the Beautiful

NORTHERN CALIFORNIA - By Edwin Markham  
FROM FRANCE TO AMERICA'S SUNSET LAND - By Alice M. Williamson

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# Country Life in America



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THE GARDEN MAGAZINE  
-FARMING



DOUBLEDAY, PAGE & CO.  
Chicago GARDEN CITY, N. Y. New York



THE WORLD'S  
WORK

This catalogue has information in it that will help you to decide upon trees and plants to beautify your lawn.



If you are going to plant a shrubbery border this Spring; a hedge; a screen to hide some ugly view; a flower border to give an uninterrupted succession of bloom, or trees to give cooling shade, you will find suggestions of varieties to use and how to arrange them in this book.

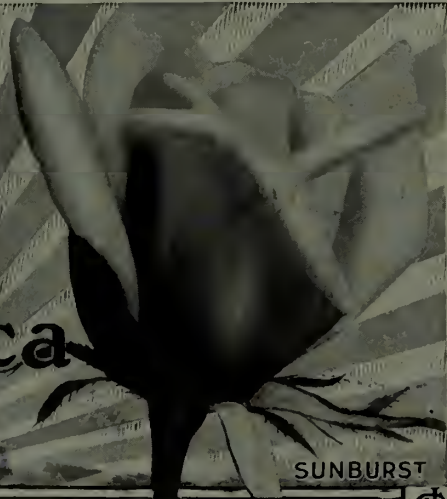
It describes and lists nearly 2,000 varieties of Hardy Trees and Plants for Every Place and Purpose. It will be ready for distribution early in February and a copy will be willingly mailed upon request.

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You will want to take advantage of our NEW FREE DELIVERY OFFER. See the Rose Book for full details.

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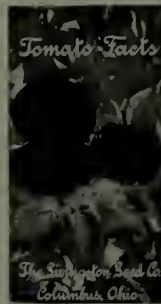
are famed for quality wherever this vegetable is known and grown. More than a score of distinct and meritorious sorts originated with us. We evolved tomatoes for all purposes. During half a century of "tomato evolution" we have helped to develop this vegetable to its present standard of perfection, now found in our new "globe shaped" sorts. If you desire bountiful yielding tomatoes of handsome appearance and tip top quality, try sorts offered opposite.



### Tomato Facts

is the title of a unique little booklet showing how we helped to make tomatoes what they are today. With plenty of halftone illustrations from photographs it will prove interesting reading to planters who strive after fine tomatoes. Let us mail you a free copy.

Livingston  
Coreless  
Tomato



### Test Our New "Globe" Tomatoes for 25c.

Three sorts of the new type — round as a ball, solid as an apple and of delightful flavor. Each sort has unique characteristics and all three make an ideal collection for the home garden.

**Globe.** Finest purple of mild delicious flavor. Best for the South. Pkt. 5c. or 10c.

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**Coreless.** Scarlet main crop sort of unsurpassed quality. Pkt. 5c. or 10c.

Any 3 five cent packets for 10c.; any 3 ten cent packets for 25c. postpaid



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Its 130 pages are freely illustrated with splendid halftones from photographs which, together with honest descriptions will help you to form an accurate idea of the things we sell. Contains many helpful hints how to increase gardening pleasures and profits. For scores of years it has been considered by many planters a reliable guide to dependable seeds. Let a copy help you the coming season to better success in the garden. Mailed free!

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We shall, of course, continue to meet the demand for information concerning farms and estates everywhere, and COUNTRY LIFE IN AMERICA'S READERS' SERVICE will supply to all who ask first-hand facts; there is no charge for this service and it is rendered promptly.

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NEW YORK

NEW YORK



## OYSTER BAY

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Choice Dwellings to Rent  
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and Acreage for Sale

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**FOR SALE. SILVER CREEK FARM,**  
380 Acres, located in Albany County,  
New York, devoted to dairy, fruit, hay and grain. Three dwelling  
houses, ten barns and out-buildings, two silos, all in good con-  
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three fields of alfalfa, plenty of water and wood. Excellent land,  
250 acres tillable. Large amount of farm machinery and im-  
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\$50 per acre. Easy Terms. Address  
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Not always; it depends on many things.  
In our new treatise we endeavor briefly  
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of stucco finish and cut stone foundation is sure to  
attract attention; 4 piazzas first and second floors,  
all looking out upon the Hudson River; 7 bedrooms,  
2 baths, fireplaces. Price LOW. Cash required  
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Exhilarating Climate, Tobogganing, Sleighing, Skating, Snow  
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18-J., Larchmont, N. Y.**



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"The Elms" with one acre of ground, electric light, steam heat, run-  
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address **F. S. ROLLINS, 51 Wall Street, New York City.**

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A beautiful Colonial house containing ample master and  
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room. Thirteen acres of magnificent oaks, beeches and  
tulips and 5 acres of well planned gardens and fruit orchard.  
Within 45 minutes of New York City on the North Shore.

**J. W. DAVIS Hempstead, L. I.**

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Estates, Shore Fronts, Farms and Acreage  
at very attractive prices

All inquiries receive prompt and personal attention.

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A large two-story apartment on the 10th and 11th floors of a  
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large drawing room, a library, a dining room, a kitchen, a but-  
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rooms and two smaller ones, two baths and abundant roomy  
closets, on second floor; and servant's room. This apartment  
was specially arranged and decorated as a permanent home  
for the owner's family, and is offered solely on account of a  
change in the location of his business—owing to which he  
is willing to sustain a material loss.

A gentleman who has a corresponding apartment, after  
the usual experience of house-renting and house-owning in  
New York, says: "This solves the problem of city residence."

Address **Box 230, care of Country Life in America, Garden City, Long Island**

NEW YORK

**Beautiful East Aurora**  
 Roycrofters' Town  
**A Gentleman's Home**  
 On Sale By S. S. Kingsley  
 Buffalo, N. Y.

**For Sale** COUNTRY PLACE naturally beautiful lake in front, ample shade, one hundred feet of water. Five acre Colonial house, sixteen rooms, two baths, electricity, steam heat, fireplaces, and endless supply of Spring water piped to all buildings. Barn and two buildings half concrete and half wood, one 22 x 22 and 120 ft x 16, used as a garage plant. These buildings could be easily altered for horses, cows or swine. In good repair. Sixteen miles from New York on North shore, thirty-five minutes by rail (ten minutes from station). Fine location for busy people to commute or motor daily.

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 Between a person and his objective there is often a gap to be bridged—a connection to be made.  
 If your purpose is to purchase a house or to build in Mt. Vernon or any other part of Westchester County, make this office the connecting link. We are in a position to be of very real service. Write  
**The Oliver Hubbard Co.**  
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**\$20 an Acre—800 Acres**  
 The greatest farm bargain in New York, 50 miles from Rochester, 400 acres in cultivation, 250 in timber, balance pasture, large residence, two barns. Fine trout stream. Would make fine game preserve, or grain, dairy or stock farm. Three miles from good town, markets and railway. Fine view of Canandaigua Lake. Terms \$5 cash, balance to suit.  
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 Gentlemen's country estates and farms for sale and to let in the most popular districts around Boston.  
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 A first class fruit farm within driving distance of Boston; soil and location unexcelled for fine fruit; very elevated; 15 orchards; 85 acres; 1,000 trees in bearing; less than half the trees gave five cars Baldwins in 1910. Price \$20,000. P. O. Box 102, Sherborn, Mass.

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 Rentals \$100 to \$2,000 a year. Tastefully furnished homes also for rent. Choice properties—furnished or unfurnished—for sale or rent, in other desirable localities.  
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 House has 15 rooms, handsomely decorated; four bath rooms, electric light, hot water heated, etc. Everything in complete order: greenhouse, cottage of five rooms, barn, ice house, garage, cow stable, chicken house, boat house, etc.  
 The grounds consist of over 10 acres of very handsome lawn, hundreds of trees, flowers, brook, ice pond, etc. The house is situated on a knoll above Hackensack River, with riparian rights, and one thousand feet river front. Excellent road, fine surroundings. Can be bought (for occupancy in June) at much less than cost. Address  
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 Over 35 acre tract just east of Paterson, New Jersey, directly on the Erie R. R. Gas, water, electricity, and two trolley lines. Convenience. \$45,000. Write  
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 In the hills of northern New Jersey, one thousand feet elevation, noted for fine quality of fruit 157 acres, 50 acres in full bearing, apple orchards, 10 in peaches. Some pears and cherries. 75 plow land, balance pasture and woodland. Good air drainage, no orchard heating required, full crop every year.  
 Remarkably strong soil, Agricultural Department pronounces it best in Sussex County for peaches. Estimated value \$20,000. Price \$16,000. Stock and tools included.  
 Address "CLOVER CREST FRUIT FARM" Sussex, N. J.

NEW YORK



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Highest class perfectly developed waterfront plots of 1/4 acre and larger with private beaches. Magnificent views. Perfect anchorage.

This section is famous for its natural beauty, health and social attractions and property of this type was heretofore only within reach of the very wealthiest. Write for particulars.

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**Buzzards Bay and Cape Cod Real Estate FOR SALE—"Crow's Nest"**

the beautiful home of Joseph Jefferson. This estate comprises several acres of dense woodland, with extensive water front, rough stone Mansion House, Stable-Garage and other buildings. A country home and seashore home perfectly combined and only one hour and fifteen minutes from Boston.

**Land, Estates, and Cottages, for Sale or Rent**

Write for artistically illustrated descriptive booklet

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High altitude, dry air, beautiful country, good water. I sell Farms, Estates, Homes and Manufacturing Sites. All kinds and prices. Let me know what kind of property you are looking for—then come.

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Nahant	Beverly	Cohasset
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Beach Bluff	Nantasket	Duxbury
Clifton	Hingham	Marshfield
Marblehead Neck		Plymouth

Photos, Descriptions and Locations can be seen and Appointments made to inspect at my Boston offices. Purchasers or those looking for a Summer Home will find it to their advantage to immediately call on or communicate with

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 One and one half acres (79,405 square feet), fronting south on Sea View Avenue and east on the famous Cliff Walk. Address  
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**RHODE ISLAND**  
 Very Desirable Bungalow and Cottage Sites  
 For sale—on Narragansett Bay near Narragansett Pier and Newport—adjoining a very safe private surf bathing beach.  
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 Telephone 6280 John

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Entire island 300 acres, very diversified, high elevation, beautifully wooded, meadows for cultivation, 14 beaches and coves for anchorage. Easy of access, 4 miles from Isleboro. Price, \$30,000. Full information and other photographs of COUNTRY DEPARTMENT, of

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### For Rent, Furnished or Unfurnished

A very attractive old fashioned house with modern improvements, having about three acres of land, splendid old trees, and fine garden.

*Our lists of furnished or unfurnished houses for rent, or property for sale, is now ready and we advise an early inspection of these properties to obtain satisfactory selection. Consult*

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**Country Place  
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Come and see Greenwich. It is the most beautiful and aristocratic Residential Colony near N. Y. Electric express service, best markets, schools, etc.

Every courtesy and all pains taken to assist in your selection.

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Mr. David J. Gillespie, Doubleday, Page & Co., Garden City, N. Y.

May 4, 1911.

Dear Mr. Gillespie:—I know of no better advertising medium for high-class country property than the representative magazines devoted to out-door life. The results of my advertising in Country Life in America have been very satisfactory.

One particular property with a large house, we rented three years in succession to applicants who came to us directly from a special advertisement of this property in Country Life in America, and some of the best inquiries we have had, have been in answer to our advertisement in your magazine. The results have been much better for the amount of money involved than any newspaper advertising with us for several years.

Yours very truly,

JEREMIAH ROBBINS, Babylon, L. I.

March is one of the best months for advertising country property for sale or rent. Last March the Real Estate Department in Country Life in America carried 11 pages of country property advertising. From the present market conditions we hope to far exceed this for March, 1912.

Communicate with us at once if you desire our assistance in finding a purchaser or tenant for your property. Our expert copy writer is at your service. He has had years of experience in writing attractive and compelling advertisements.

All advertising material for the March 15th number—The Spring Building Number—must reach our office by February 28th at the latest.

MGR. REAL ESTATE DIRECTORY

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Garden City, L. I.

11 West 32d St., N. Y.

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25 acres in the heart of Oregon and the world's peerless fruit valley; marvelously productive, healthful and scenic. 18 acres in apples, 7 acres in woodlot, 5 room bungalow, new barn, tools, berries, water, telephone, depot half mile. Two trans-continental railroads. Portland (250,000) 65 miles. For particulars address

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## List of Representative Agents in Their Respective Localities

Every agent whose name is printed below has been vouched for by one of the principal banks of his city. COUNTRY LIFE IN AMERICA readers need have no hesitancy in inquiring of or dealing with them. REAL ESTATE DEPARTMENT, COUNTRY LIFE IN AMERICA

### MASSACHUSETTS

NORTH SHORE, W. O. Adams, 6 Beacon St.,  
Annisquam, Gloucester, Mass.

### NEW YORK

NEW YORK, 141 Broadway (Country Property Specialist)  
E. E. Slocum

### NORTH CAROLINA

FORBES & CAMPBELL, 52 Patton Ave., Asheville, N. C.

### VERMONT

BURLINGTON, Farms, Summer Homes, Reynolds Real Estate

NEW YORK, 546 5th Ave., City and Country,  
Moore & Wyckoff

SARATOGA SPRINGS, 377 Broadway, Lester Bros.

### RHODE ISLAND

PROVIDENCE, Industrial Trust Co. Bldg.  
Ralph C. Watrous Co.

VIRGINIA

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**\$15.00 PER ACRE**  
and Up EASY PAYMENTS

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Address F. H. LA BAUME, Agr'l. Agt.,  
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Box 3,093 Roanoke, Va.

**Famous Plantation Home**  
**606 Acres \$10,000 Part Cash**  
Income Last Year \$6,125

This splendid estate was famous in the ante-bellum days and today is known far and wide; it is a charming home, attractively situated, with magnificent view, within easy driving distance of depot and big market town, 200 acres of fields in a good state of cultivation produce excellent crops of peanuts, cotton and hay; pasture for nearly 100 head of stock, last year's income \$6,125; modern 2-story 14-room house, in good condition, big barn, a very nice dwelling and tenant houses, full details and traveling directions to see this and many other farms and homes, large and small acreage in North Carolina, Virginia, Florida and other Southern States, page Southern Edition Strout's Farm Catalogue, 35, just out, copy free. We pay buyers' railroad fare. Station 2717, E. A. Strout, 517 Latta Street, Greensboro, N. C.

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Colonial Homes, Tidewater Properties, dairy, fruit and stock farms, Game Preserves and Investments.

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**Build a Home in the World's Playground**

Learn about Chatham Crescent, the most desirable residence section of all America. Write for beautiful free book; 36 large pages, handsomely illustrated.

Savannah Trust Co., Spec. Agts. Savannah, Ga.

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## BIG PROFITS

Raising Fruits and Vegetables in 6 Sou. States, traversed by S. A. L. Ry. Land cheap. Water plentiful. Healthy climate. Net \$500 to \$1000 per acre — 2 to 3 crops a year, in Manatee County, on West Coast of Florida. Raise Oranges, Grape Fruit, Vegetables. Illustrated booklet free.

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FOR SALE

**FLORIDA LANDS and BEARING GROVES**  
"ROSARY BRAND" Oranges and Grape Fruit from our own Groves. \$6.00 per box delivered. Write for Booklet.

**BRUCE & COMPANY**  
Winter Haven, Florida Pittsfield, Mass.

**Among Orange Blossoms and Sweet Magnolias**  
LUCKY SANFORD, encompassed by navigable rivers and placid lakes. Hedged in by healthful pines, golden groves, Aladdin gardens and scenic beauty. Hunting areas of ample proportions. Fat fishing grounds. Winter cruises in beautiful lakes and charming rivers. Winter autoing daily and never a frozen jacket. Bridle paths through the woods. Entire winter can be spent in open in invalid or hunter. Our sunshine is tonical. Healthiest place for winter and summer residence, pleasure and sound investments.  
**COMMERCIAL CLUB, SANFORD, FLORIDA**

VIRGINIA



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Large brick dwelling, one of the best specimens of Georgian architecture in this country; modern equipment; outbuildings complete; formal gardens; conservatory; 1,200 acres; cleared land fertile and highly cultivated; timber boundary; macadamized road; leveling district; most picturesque environment; glorious views; charming scenery; perfect social and climatic condition; cities accessible; property ready for immediate occupancy by people of wealth and culture. Price \$160,000. Buildings alone cost \$165,000 in the past ten years.

Illustrated Folder Free

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Situated in Piedmont, Va., only 50 miles from Washington, and within one mile of Station. Large house, heated by steam and lighted by acetylene. Contains every improvement. Over 200 acres of fertile land. 80 acres in blue grass. Large Young Orchard just beginning to bear. Beautiful rolling country. Exceptionally healthy. Two recognized Hunts. This property is famous for its beauty, and will be sold most reasonably.

Address Box 237,

Country Life in America, Garden City, N. Y.

## Virginia Farms and Homes

Free Catalogue of Splendid Bargains  
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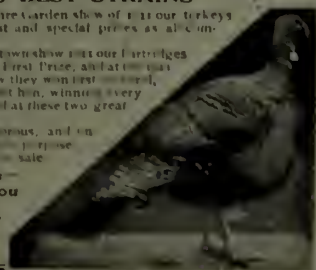
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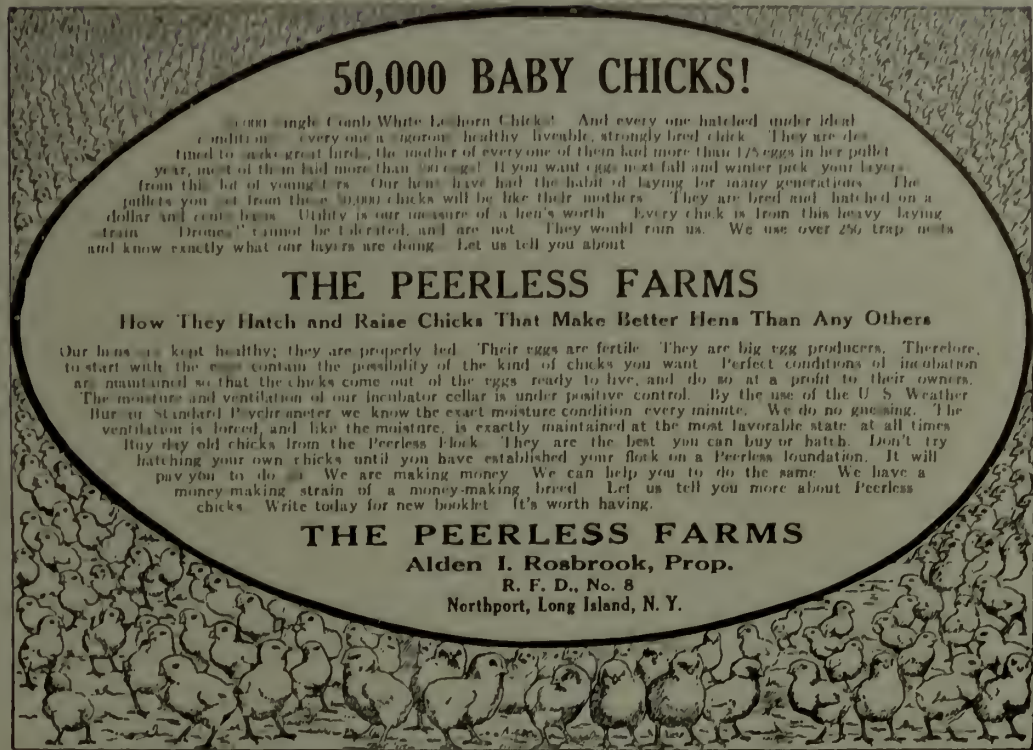
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World's Record for Twenty-three Years



September, 1906, *Illustration*

"WORLD'S CHAMPION OF 1906," First Prize and Sweepstakes Cockerel at New York Show, 1906, nearly 500 Barred Plymouth Rocks competing.

At Madison Square Garden Shows the last 23 years Our Strain, including Birds We Bred and Raised, shown by customers, has won More First Prizes total than any exhibitor has won on any B. P. Rocks during that time.

Highest Grade Breeding and Exhibition Birds For Sale - New York Winners and Birds bred from m. Winners. The last 14 years 54 Birds bred by us have sold for \$100 or more each, or that price refused.

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Eggs from Best Pens, \$10 per 12, \$25 per 33. Special: A limited number of Utility Pullets and Cockerels for sale.

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Our mating list is now ready and tells of our sensational ORPINGTONS, BUFF, BLACK, WHITE and JUBILEE. Tells how we won championship of the United States in Buffs, also CHAMPION WHITE COCKEREL of ENGLAND, of our wonderful NABOB STRAIN BLACKS, also tells of our sensational winnings at CHICAGO, Kansas City, Indianapolis, Louisville, Cincinnati, etc., etc., in Barred Rocks, Reds, Leg-horns, Wyandottes.

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Learn this immensely rich business we teach you; easy work at home; everybody succeeds. Start with our Jumbo Homer Pigeons and your success is assured. Send for large illustrated matter. Providence Squab Company, Providence, Rhode Island.

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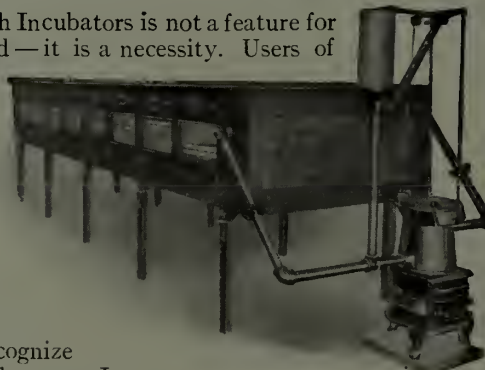
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The Readers' Service gives information about Poultry

## Live Stock Directory

In this department are printed the advertisements of reliable stock farms. The Live Stock Department of COUNTRY LIFE IN AMERICA will be glad to send to its readers any information about stock which they may desire. Address LIVE STOCK DEPARTMENT, COUNTRY LIFE IN AMERICA, 11-13 W. 32d St., New York



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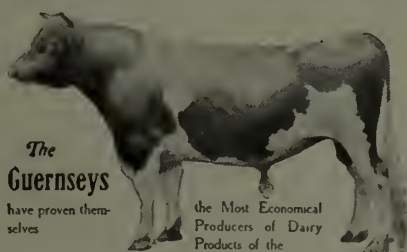
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The Readers' Service gives information about schools



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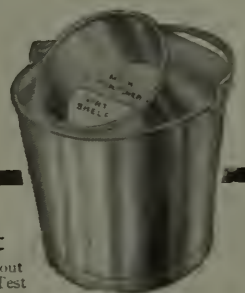
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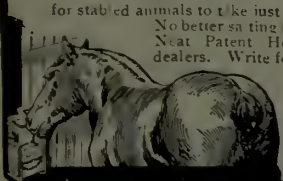
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give animals pure, refined dairy salt. A trailing expense avoids all neglect and waste.

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for stabled animals to take just enough, just as needed. No better salt than this. Neat Patent Holders furnished. Ask dealers. Write for free booklet.

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Are especially suitable for Country Estates. They have great vitality and are able to resist most Swine diseases. I have the largest breeding herd, and won 27 ribbons at New York State Fair at Syracuse in 1911. Write for particulars of this great breed.



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For the destruction of RATS, MICE, and MOLES, by a special virus which conveys a contagious disease peculiar to these animals. Harmless to human beings, domestic animals, poultry or game. Not a poison. 50 cts. to \$1.50. INTRODUCED BY US TEN YEARS AGO. If your dealer cannot supply you, order from us. PASTEUR LABORATORIES OF AMERICA, New York, 366 W. 11th St.

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"I have seen many large herds of cattle, many of them as large as yours, but never have I seen either a large or a small one of such uniform quality as the herd at Meridale. It is a herd to be proud of, and it would seem to me to be easily the largest herd of good Jersey cattle and the herd of the best cattle in the country. The herd was really a revelation, and an education and a pleasure long to be remembered."

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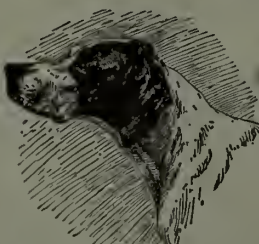
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Royal Farms

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# Kennel Directory

about dogs which they may desire.

In this department are printed the advertisements of reliable kennels. The Kennel Department of COUNTRY LIFE IN AMERICA invites correspondence and will be glad to send to its readers any information Address KENNEL DEPARTMENT, COUNTRY LIFE IN AMERICA, 11-13 W. 32d Street, New York.



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Excellent show dogs, stud dogs, brood bitches and puppies always for sale.

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NOT the "hairless" breed. I personally select fine specimens from the Mexican States and sell direct to you at the lowest possible price. Write today.

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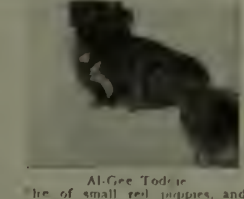
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In three years this kennel has sired and produced five champions. Ai Gee Pekingese shown by their owners won many firsts and specials at the Plaza Show.

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Companions, Guardians, Coursers. Ask for Catalogue "C." Mirasol Kennels, Pasadena, California.

## All kinds of Great Danes, Brindles, Harlequins and solid color Dogs on hand.

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This Bureau has complete information about all the hotels and resorts in the United States, Canada, Mexico or abroad, and we will be glad to answer any questions or give any information about travel or hotels that may be desired. We will also be glad to make arrangements for hotel accommodations anywhere. There is no charge for this service. Main office located at 225 Fifth Ave., N. Y. Branches at Raymond & Whitcomb's offices in Boston, 306 Washington St.; Philadelphia, 1005 Chestnut St.; Detroit, Majestic Bldg.; Los Angeles, 509 South Spring St.; San Francisco, 397 Monadnock Bldg.; Portland, Ore., 132 Third Ave., also at Double-day, Page & Co.'s office in the Peoples Gas Bldg. in Chicago. Telephone, write or call to the office most convenient to you.



THIS BUREAU IS AN ENLARGEMENT OF THE WHERE TO GO DEPARTMENT THAT HAS BEEN RUNNING IN THIS MAGAZINE FOR YEARS, AND COMMUNICATIONS MAY BE ADDRESSED TO THE READERS' SERVICE IF DESIRED



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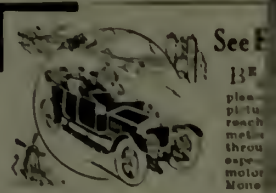


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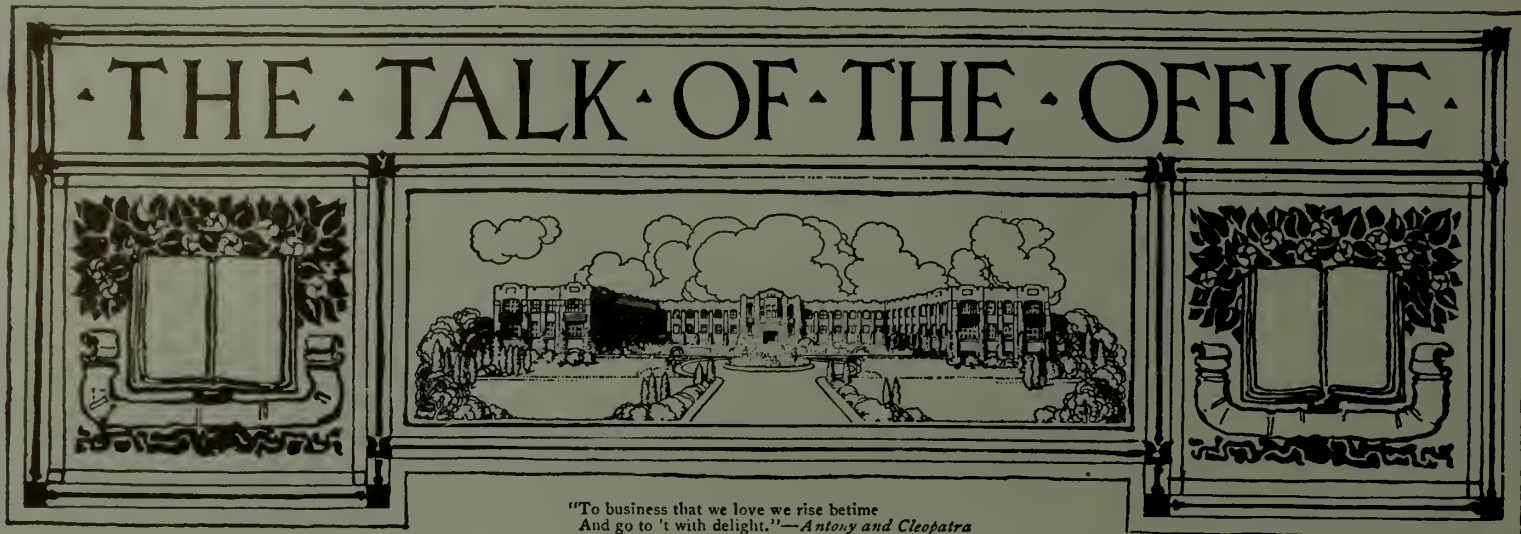
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This experience having showed us that our readers liked the idea has led us to

**A NEW STEP**

which is really a co-operative idea—co-operation, as we understand it, being the distribution of a saving among those who help to save it. To get a new subscriber frequently costs as much in advertising matter as the subscriber pays, so for the first time, we offered in December, 1911, to split up these long term subscriptions, so that one year's subscription might be used as a renewal for one's own subscription, and one or two more given to a friend or friends. Or another way by which the same purpose may be accomplished is by asking a friend or two to join with you in a long term subscription. This plan has also been successful, and we wish to continue and develop it; and your co-operation is suggested, because if half of our present subscribers took up and worked out this plan, they would save many thousands of dollars to our mutual advantage.

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P. S. Our readers will readily see that we cannot afford to pay an agent commission on the plan—the reader, becomes his own agent, so to speak, and our dealings must be direct.

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Our author friends will tell the story of the places pictured. This month we have "Northern California," by Edwin Markham. In March we expect either "The Great Southwest," by Stewart Edward White, or "Dixie," by Thomas Nelson Page; we haven't decided which to run first.

**COMING, THE GARDEN ANNUAL, FEB. 15TH**

The big, double Annual Gardening Number will be published on February 15th this year, instead of March 1st as formerly. It will be the old March Gardening Number that has always been popular, full of practical gardening instruction, pushed two weeks ahead to help people to get a little earlier start in the multitude of spring duties about the country place.

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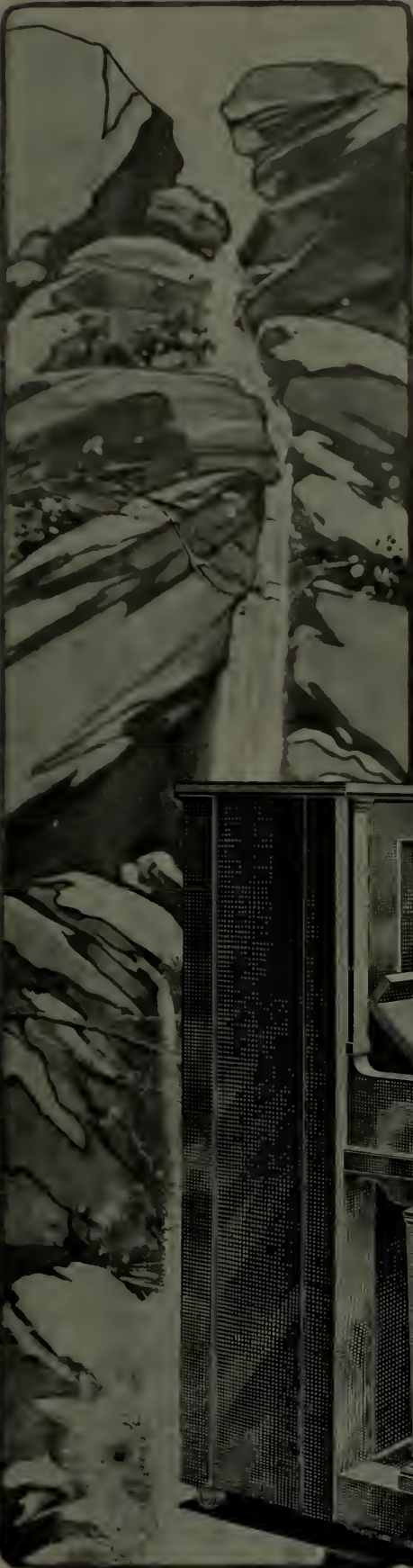
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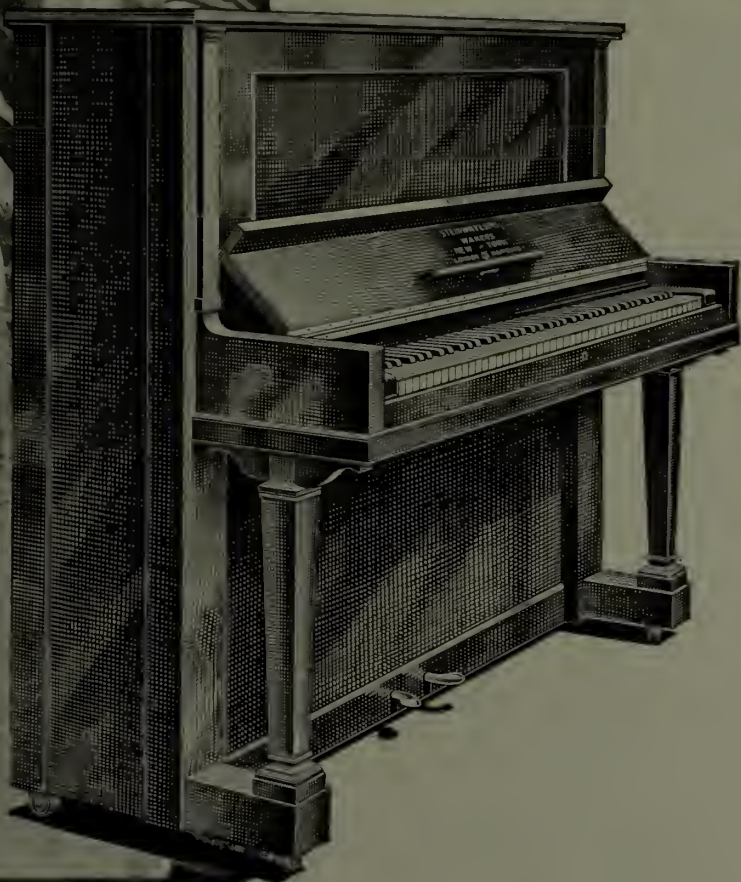
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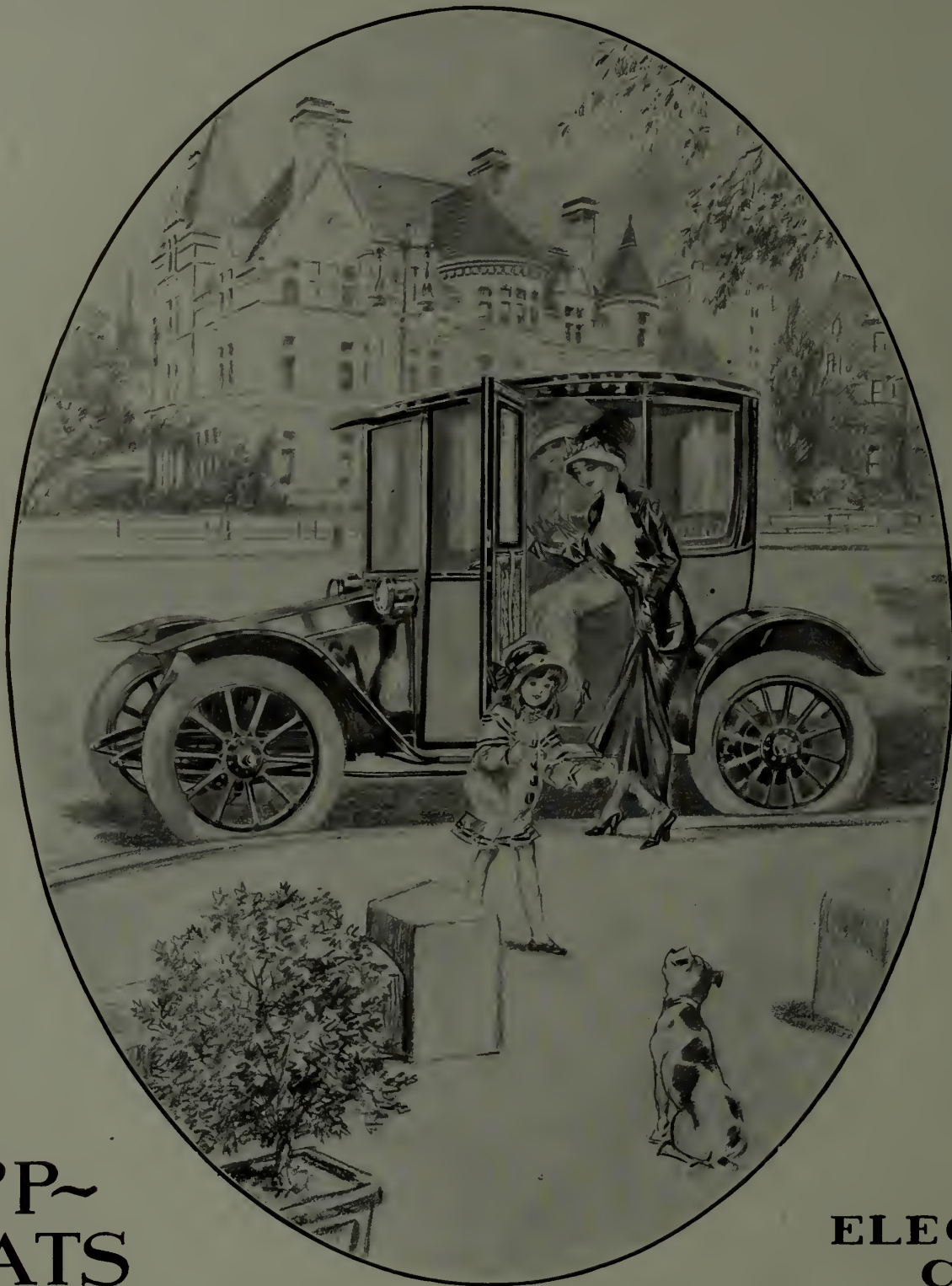


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VOLUME XXI—NUMBER 7

February 1, 1912

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On the way up the mesa to Acoma, New Mexico

## FROM FRANCE TO AMERICA'S SUNSET LAND

By ALICE WILLIAMSON



"Danced for joy at the thought"

I BELIEVE that it was watching our dog Tiberius (Tibe for short), adventuring with wild joy round the rim of the fountain, which decided me to go adventuring alone to the land where the sunset lives in America. You see, Tibe's adventures set us talking of Tartarin and his adventures. And just before that we had decided that I could not possibly go to America while the house was being built. Which, naturally, was reason enough in itself for resolving the minute after that I could not bear it not to go.

This being definitely settled, I stood in the basin of the other fountain that was not placed yet, and danced for joy at the thought of all the excitement before me. I "pretended," as children say, that the marble bowi was the *Mauretania* or the *Adriatic*, and then, the next thing I knew (of any importance) I was landing in New York.

Pale-lipped people who looked as if they needed Somebody's Pink Pills were quivering with fear of the Customs, so I quivered too; but luckily "W" is a letter which has

slipped a long way down the alphabet, and before I was noticed by any of the Powers that Be I had time to compose myself and look incontestably British.

British subject—er—er—over on short visit—no presents whatever—never mind, unlock boxes—trunks, I mean. Mercy! how warm it can be on the docks of New



"Our dog Tiberius, adventuring with wild joy around the rim of the fountain"

York (or should you say "in?"). But it seems that you always feel as if you were in a Turkish bath, even if it's the depth of winter, until those wounded warriors, your trunks, have been patched up by the Custom House surgeons.

I had expected horrors; but, really, they are among the



The Indian trail to the ancient pueblo of Acoma

nicest men I ever met. To be sure, one of them did remark in a loud voice, apropos of the Britishness, "How do I know this woman is telling the truth?"

That was a blow. Not the questioning of my veracity so much as the disgrace of being called a "woman" in that tone, just when I had put on my most angelic expression, and imagined I looked no more than sixteen—seventeen at worst. But at that moment a really tactful C. H. M. (may one thus venture to abbreviate a Custom House Man?) called me "Miss," and I forgave the other everything for his sake. Besides, I did just happen to be telling the truth.

Each country has its own very special fascination, but New York seemed to me unique—as individual, in its way, as Venice, because there is nothing in the world like Venice except Venice, and there is nothing in the world like New York except New York. Those long cañons of streets with houses like marble mountains ought not to be beautiful; but somehow they are, and wonderful too. And when the cañons are full of rose and topaz sunset light, they are unforgettable. Besides, who but Americans could, firstly, have conceived the idea of skyscrapers, and, secondly, have succeeded in making them separately and collectively splendid?

I stayed in a skyscraper hotel in New

York, while things were being done to smooth my way West, through Arizona to California, and though we have contrived at one time or another to stop in most of the best hotels in Europe, never had I been in any thing with a roof and four walls quite so delightful as that skyscraper. Never, I thought, had hotel rooms such pretty yet simple looking furniture; never were there such good things to eat; never was there such an amazing night view as that I had over the "Great White Way." I felt like a child crying for the moon, for I wanted some of those blazing jewels to take away with me. They would have rivalled the magic collection of any Sultan in the "Arabian Nights," or even the most powerful Genii.

As for the New York shops, I decided that they could give points to Paris; but they made my purse feel small and shrunken. I should like to be a member of a mob in New York, if any really distinguished rioting were going on (such as one could join in without a chaperon), and loot—loot—loot! I can't think why American women buy things out of their own country, unless it's for the pleasure of smuggling.

I was sorry to leave New York, because there were hundreds of things which I wanted to do; but, after all, I had crossed the Atlantic with the fixed purpose of going West, and I could not let my fixed purpose wobble. Things happen so quickly in America, when you are used to the other side, and to spending half the year in the lazy South of France! Some kind, delightful American men tell you that they will "fix it all up" about your ticket, that you can go tearing across three thousand miles or so of American continent with no trouble to yourself; that they will give you helpful introductions everywhere along your route, and make out a list of the most interesting places to see, as well as explain how to get to them and how long to stay; that they will arrange about your staterooms on the train, and wire to people who will meet you at junctions. You expect them to go home and think for a few days before even beginning to attend to these matters, and you suppose that, after thinking, some more days will be used up in the accomplishment of their purpose. You tell yourself that this will give you time to see New York, and "do" several theatres; but not at all! Men are not like that in America, especially if they are doing anything nice for you. They summon bands of minions, by telephone, and send these their creatures running or wiring or 'phoning, in every direction at once. Then the tickets and staterooms and introductions and guidebooks and maps all arrive in the space of a few hours, and sit down on your hearthrug, smiling and flapping their wings. Whereupon you dash into your bags and boxes the clothes and hats which have just come out to breathe and stretch themselves. Then you go on, with your marching orders in your hand.

I was tremendously impressed with the ferryboat which took me from somewhere in New York to somewhere else—I am not quite sure where—but wherever it was, I got into a train when I came to it.



First the cave-dwellers and cliff-dwellers; then the communal houses of a thousand years ago: now, ancient enough themselves, these compact villages of the Pueblo Indians





Typical homes at Acoma in the Painted Desert



Natives and their wondrous pots

But such a ferryboat! She looked like the mother of all the other ferryboats in the world, but a very young, handsome, up-to-date giantess of a mother. Or else a titanic Noah's Ark, with lots of balconies for the animals. And there was room on board her for a whole cityful of people; which was a good thing, as all New York seemed to be there. I could hardly realize that there were just as many, no doubt, on other ferryboats, floating with the same majestic dignity in other directions; to say nothing of the streets, and the "elevated."

It looked a beautiful train; and though it was called the "Limited," it laid itself out to provide unlimited luxury. I felt that I would be willing to live for weeks in my neat little stateroom, where I sat heaped with novels to read and fruit to eat, like Tarpica half buried with the shields and bracelets. A delightful coffee-and-cream-colored maid appeared, and proffered devotion. A dusky porter with a smile like a diamond tiara settled my belongings. I felt like the most important person in the world, and one of the nicest.

But — I "bit my heart" when the train started. I didn't know that anything which hadn't lost the attraction of gravity could go so fast. It was exactly like having a stateroom in the tail of a comet. I soon got used to speed, however, just as other aeroplanists do. I said to myself, "What, you who think you are a sister of motor-cars, afraid of a mere train?" Only, you see, this wasn't a *mere* train. It was a "Limited." I wanted to ask some one what "Limited" meant, and please explain slowly and kindly to an intellect accustomed to the English and Riviera climates; but there wasn't time. There was only time to look at some scenery, and eat a gorgeous dinner, and go to sleep and wake up, and breakfast deliciously — and there we were!

One thing which impressed me very much was having a paper bag for my hat. It was a very large bag, and my very small hat was, when in it, like a single pea in a roomy pod. The bag was given me for a present by the creamy-brown maid, and I wanted to keep it to remember her by, but something happened to it in the morning. What does become of paper bags and pins?

It was amusing, just as we were on our way out of what I might call "real New York," passing so close to little wooden houses that I could almost have snatched flower pots off the window sills, as Alice snatched marmalade falling down the Rabbit Hole. Afterward the green country of trees and shining rivers was charming. I yearned to live in at least half the houses I saw, which is not a wish one would entertain while traveling in trains through most countries. American houses struck me as looking peculiarly friendly, with their big, welcoming porches and verandas.

Philadelphia and its ring of gardens, seen from the train window, fascinated me. I have heard that "all Philadelphia people are nice," and I can quite believe it.

If they were not, it would not have occurred to them to live there.

The Horseshoe Bend, seen by moonlight, was the most gorgeous thing that happened between New York and Chicago. I almost thought I had dreamed it; but was relieved early in the morning when the porter gravely assured me that I had not. He himself was, in his way, almost as unique as the Horseshoe Bend; although, being black, he would have been blotted out and practically invisible by moonlight. Such a philosopher as he was, too! When I ventured to ask him, apropos of his glittering smile, if he were ever cross, he answered that he believed in "takin' life mighty easy 'cept in business hours. He was nevah cross 'round de ladies, an' rarely round de gen'lemen, dough dey suttonly was moh' temptin' sometimes."

I suppose there are cities in the world bigger than Chicago. No doubt New York is — anyhow temporarily — but surely there are none which contrive to look so big as Chicago. And all on such a grand scale, too, as if built for a magnificent generation of giants. I had a

policeman sitting by the chauffeur to overawe the traffic as my taxi bumbled up an incline coming out of the great Union Railway Station; and I was so proud of him, it seemed a bad anticlimax to go on afterward without him.

The enormous bridges stretching in different directions made me feel as if I were a small spider, walking the ropes



The visitor from the Riviera and the Big Chief of Acoma



A few Wild West evolutions were among the entertainments of the Grand Cañon

of a huge, incalculably huge, web; and the air was so bracing that the spider I was seemed to have been drinking champagne.

I shall always regret (till next time, and may it be soon!) having to leave a perfectly beautiful and perfectly managed mountain which condescended to be a hotel. I was there only a day; and most of that day I spent in a motor flying about through lovely, young-looking green parks, and along imposing avenues with views of a blue lake

which might have been the Mediterranean as far as color was concerned. There was hardly any time to lounge in the charming suite I had, in that new and charming hotel; but by that time I had begun to expect great things of all American hotels, judging by the samples. Therefore hope tempered regret, as I took the "Limited" that same evening for Sunset Land.

It seems that, in America, the number of "Limiteds" is unlimited. The one I took, or rather the one which took me, was a magnificent train of an appearance so royal that I felt I ought to curtsy, and hum "God Save the King." It formed a kind of procession of splendidly built bungalows, painted in different colors, with bright metal balconies at the two ends of each. My stateroom was all satinwood and green brocade, and in it seemed to be everything I could possibly need all the rest of my life. It was fun arranging my own belongings for a three days' journey — I had nearly said voyage. Then I settled myself down to enjoyment; for I can't understand people who grow tired of traveling. To me it is a most restful experience, and I feel so intelligent in a kind, well regulated American train that I am able to compose better plots for stories than at any other time. In motors I feel more restless and excited, whereas in a long-distance train there is a glorious sense of no responsibility.

It seemed to me that the landscape through which we passed after Chicago was extraordinarily youthful-looking landscape. It was so green and mild, the trees in their graceful groupings so like bands of young girls in spring finery. Delicate, violet-lined thistles bordered the railway track, and there were endless meadows which had the air

of having been redeemed, long ago, from prairie land. I should have liked to stop at some of the villages and small towns, with their long, shady streets stretching away into mystery and domestic romance; but alas, our train did not stop for many things. It seemed quite capable of stopping at nothing.

At last, when twelve hours or more had been wiled away in the train, looking out of the window, reading books about the West, and eating the

most idyllic food supplied by a sort of world benefactor named Fred Harvey, we had already swept into a land of interesting contrasts. I'm sure the name of the place was Florence, where to my joy, surprise, and excitement I saw my first Mexicans and Indians. They were only half-breeds, those Indians, but they were better than nothing, and most picturesque. The Mexicans had long, green leggings which glittered metallically, with gold lacings; big straw hats, painted with flowers; gray jackets; blue trousers, and beautifully oiled black curls. They would have burnt like night-lights, if one had put wicks in them.

The second night out from Chicago, the Rocky Mountains gave me a thrill, in cold, white moonlight, cut in steel against a silver sky; and I waked early in my satinwood and brocade luxuries to find our procession of gorgeous bungalows flying through a strange, red desert, which might have been imported from Africa. There were mounds which looked like prehistoric tumuli of vast importance; but I shall never know what they really were! The porter was one of the most agreeable persons living, but even he could not tell me that!

Altogether, I could hardly believe I was in America. The scattered adobe houses, the dignified watch dogs, the tiny stations in the midst of orange-red desolation, were all reminiscent of Africa and that wonderful

journey of ours, when we were writing "The Golden Silence." We seemed to be making straight for the setting sun; and in the late afternoon, when it blazed ahead of us, I felt as if we might rush into it, like a mad comet, to be swallowed up in fire.

(Continued on page 62)



Anything to please the ladies. An unusual view of the Grand Cañon



Preparing to view the Yosemite, which "strikes the same godlike note in the music of the world — grandeur"

# SOCIETY NOTES FROM DOGDOM

Photographs by ARTHUR G. ELDRIDGE



Among those present at the recent Dog Show was Miss Florence Blunder, of Hewlett, Long Island. She wore blue ribbons.

The Clansman, the well-known Airedale of Spring Valley, N. Y., son of Champion Rooley Toff, is going in for fishing and aquatic sports this season.



Ch. Wampagne Batch, of Bronxville, N. Y., formerly of Beacon Hill.



Of the titled foreigners now in our midst, none is more in demand socially than Herr Schipperke.



Viking of Hercuveen, the well-known captain of industry, is quite the lion of the Red Bank smart set. His grandfather was the famous St. Bernard Korepo.



Tickle-'em Jock, Jr., as Tammas Biggar in "Bunt Pulls the Strings"



Mr. Imna Special, of Simsbury, considered by many to be the handsomest man in Connecticut, has recently received a genealogical statement from the Royal College of Heralds tracing his descent from Robert the Bruce

The latest Pekinese coiffure, as introduced by the Portchester beauty, Sas Suey of Dównshire



Lord Chesterfield, the poodle who has been giving dancing lessons, is said to be a French count



Mrs. Greenacre Samoyede, of Fairfield, Conn., is issuing invitations to the coming-out reception of her six daughters. Mrs. Samoyede recently entertained Commander Peary, the explorer



Miss Foam, of Hewlett, L. I., has been elected president of the Woman Suffrage League



Ch. Mallwyd Invader, the popular English sportsman, and his cousin, Miss May Belle, have recently returned to Plainfield, N. J., after a successful hunting season in the Pocono Mountains



Mr. Ronny Sands, who recently won the title of Junior golf champion, of Newark, N. J.



Champion Hercuven, of Red Bank, N. J., the prominent anti-vegetarian and pure-food authority, is much admired for his athletic build, which, he says, was developed years ago on the foot-ball field



Miss French Bull, of Brooklyn, N. Y., who has been starring as "The Dollar Princess"



Mr. Domshire Diamond, Portchester dog-about-town



Four of the season's most popular débutantes — the Misses Airedale, of Spring Valley



Children of an old English family now residing at Babylon, L. I.



Mrs. Chow Chow, of Fairfield, Conn., wife of the Chinese consul, and her daughter



Ch. Mackworth Bertie, of London, is spending the winter with Mrs. C. M. Hamilton, at Hewlett, L. I.



Fraulein Traudel von der Hutt, prima donna of the Metropolitan Grand Opera, as Marguerite in "Faust"



The great double Yosemite Fall of over 2,000 feet



The Yosemite Valley ranks in nature as the Parthenon ranks in art. El Capitan is seen at the left and the Bridal Veil Fall at the right



Glacier Point surveys the entire valley east and west

## BEAUTIFUL AMERICA

### III. NORTHERN CALIFORNIA

By EDWIN MARKHAM

Photographs by EDGAR A. COHEN, GEORGE R. KING, OSCAR MAURER, H. C. TIBBITS, and SUMNER W. MATTESON

ONE should keep in mind the unique situation of California, as she lies half way between the equator and the Arctic circle — her thousand-mile sweep of seacoast on the west warmed by the tincture of Cathay touching her shores in the vast arc of the Japan stream; her eastern boundary sheltered by the desert in the south and by the Sierras in the north.

The double valley in the centre of the state is colossally fenced in by the Coast Range toward the Pacific and by the Sierras toward the east. It is drained by the San Joaquin coming from the south like the Nile, and by the Sacramento coming from the north like the Indus. These two rivers, swelled by myriad springs and snow-fields, meet in the delta lands of the tule-tufted San Pablo Bay that conveys them on to San Francisco Bay, where through the Golden Gate that breaks the mountain wall they reach the Sea of Peace.

The Sacramento River, the great artery of the northern valley, springs from the wooded base of Mount Shasta, that vast Fujiyama of the Western world. It traverses an empire rich in soil and yield. In the begin-

ning, this valley was only a scented, irised garden of trees and flowers for the Indian and the bear and the bee. In the first years of the Caucasian occupancy, it was turned into a colossal sheep-run; next into enormous grainfields, some ranchers owning principalities larger than Rhode Island.

Now it is changed into the pleasant places of orchard and vineyard and home. Flaming Tokays and purple Malagas have pushed away the wild fox-grapes, and walnuts and almonds have displaced the acorn crop of the live-oaks. Indeed, here glow and ripen every luscious fruit the earth distills into skin and gourd. You may calendar the year by the processional of the orchards — cherry, peach, plum, apricot, nectarine, prune, pear, fig, grape, orange, olive, lemon, grapefruit. Berries may be picked nearly all the year; melons thrive as under Syrian skies.

Thus the old enormous ranches are broken up. Men are learning irrigation and intensive cultivation; families and colonies are filling the land once given to vast lonely holdings once seeded and harvested by mules, machinery, and a homeless horde of tramps.



Up on the dividing line of California and Nevada nestles Lake Tahoe, the Lake Geneva of the West, over a mile above sea level



To get the eagle's vision of the great double valley plowing its verdurous way from north to south, climb Mount Tamalpais which bounds up from the ocean level and looks down on San Francisco. On its slopes is Muir National Park of virgin redwood



From the Glacier Trail the valley is seen to be hewn out of pure granite. Some cosmic tragedy may have drawn down out of the ancient rocks the unreckonable tons to make the hollow that is Yosemite, leaving the ages to fill the void with trees and troops of flowers





THE YOSEMITE VALLEY FROM THE TOP OF THE UPPER YOSEMITE FALL PRESENTS EVERY POSSIBLE ASPECT OF WILD BEAUTY AND GRANDEUR IN CRAG AND DONE AND CLIFF, IN MEADOW AND GORGE, IN CASCADE AND CATARACT



IN THE BIG TREES OF THE SEQUOIA NATIONAL PARK ONE SEES THE TREE WONDER OF OUR PLANET. THEY WERE IN THEIR EARLY PRIME WHEN THE TREE THAT FURNISHED THE CROSS OF CALVARY FIRST SPRUNG FROM THE EARTH



The Sequoia National Park is situated somewhat south of the Yosemite, but at a high altitude where the climate is that of Northern California. Lofty peaks are on every hand, with Mount Whitney and the Kern River Canyon not far distant



A charming feature of the Mariposa Grove and other forests of California is found in the masses of wild azalea which cover the ground as with a gorgeous mantle of bloom. One must see to appreciate the beauty of these shrubs in full flower

Northern California is not distinguished in climate from Southern California, in the same way that the Northern states are distinguished from the Southern states. For there is in California a mysterious thermal belt now distinctly marked out by the weather bureau, a belt reaching in an "equal temperature loop" from Riverside County to Shasta County, one hundred and fifty miles north of San Francisco. This is the orange zone, only lately outlined after fifty years of experience and observation. Through all this northern loop, orange and fig and lemon and palm spring up as lustily and yield as richly as they do in the glowing south.

The Tule lands, where meet the two rivers of the double valley, are a picturesque feature of the Far West. Here in reedy sloughs and bayous are piled the meltings of mountain and valley, which are building up a Holland of the future. Sixteen hundred square miles, once only a range for duck-hunters and fishermen, are beginning to be drained and are already checkered by dairies and by gardens of beans and bulbs, gardens prophetic of fat years to come.

Mt. Shasta is the wonder of the Sacramento Valley. Not so high as Mt. Whitney, it has a yet rarer individuality. It dominates the eye for hundreds of miles. Leaving San Francisco in the evening, you may in the morning awake among verdurous foothills beside the waters of the upper Sacramento. In the east Mt. Shasta will be seen standing in perfect profile under a sky

"That stirs with such a grace  
As flushed uncertainly the pallid face  
Of Jairus' daughter rising from the dead."

In the west will be Castle Crags, with jagged skyline suggesting Manhattan's man-made horizon wall. Its battlements lift themselves, terrace by terrace, like prodigious but shattered altar steps. In these retreats you may fish and hunt or explore glaciers and extinct volcanoes or bask on the granite ledges with friendly lizard and inquisitive squirrel.

Sacramento City, the metropolis of the valley, has a gold-domed capitol, which is perhaps the most beautiful public building in the Union, a stone structure rising out of a park where trees of every clime of the world grow in green accord.

Sutter's Fort at Sacramento is a landmark next in historic value to the Mission ruins. It was the first settlement east of the Coast Range; and, lying in the path of overland travel, it became the rendezvous of every immigrant and every pilgrim. It was the restless General Sutter, who, reaching out into the mountains for timber, brought about the discovery of gold in the Coloma canyon up in the Sierra foothills. In honor of this discovery the Native Sons of California have bought the fort and restored it as a museum of olden days. Here it stands as when Frémont rode gallantly in from his pathfinding, as when the Donner survivors came dazedly from their tryst with death, as when Marshall rushed excitedly to test the first fateful sands of El Dorado.

We have the great double valley plowing its prodigious and verdurous crevasse from north to south, and also many smaller valleys nesting among the mountain chains and sloping into the central valley. To get the eagle's vision of these slopes and vales, climb Mt. Diablo or Mt. Tamalpais near the centre of the state. Tamalpais, stained with "the

dusty purple of the grape," bounds up from the ocean level, and looks down on San Francisco. On its slopes are the Muir National Park of virgin redwood; and landward in every direction radiate canyons and valleys and ridges and uplands, all sprinkled with fruit and vegetable and dairy ranches.

I have spoken of the bowery valleys south of San Francisco; there are equally bountiful and beautiful valleys in the foothills of the Coast Range to the north. Sonoma, Napa, Solano—these and many another lovely name fall on the ear like the plash of water in the silver stream. Here among

(Continued on page 72)



Castle Crags are among the wonders of the upper Sacramento Valley, lifting their battlements terrace by terrace like prodigious but shattered altar steps



At any point in the Sacramento Valley one is liable suddenly to come upon a striking vista of Mount Shasta, that vast Fujiyama of the Western world



The herd as it is to-day. From a careful study of food values and the utilization of native products, these cows are so fed as to produce milk at a profit.

## CUTTING LOOSE FROM THE CITY

XIV — HOW A MARRIED COUPLE, BOTH IN ILL-HEALTH, WITH THREE CHILDREN, AND IN DEBT, HAVE MADE GOOD ON A MISSISSIPPI FARM — PLENTY OF SIMILAR OPENINGS IN THE SOUTH

By J. K. MORRISON

Photographs by W. C. CAMPBELL

[EDITORS' NOTE — This is the fourteenth in a series of articles giving the personal history of men and women who have had the courage to break away from life in the city and start anew in the country. The stories tell of the difficulties and the successes and just how the start was made and the fight waged. They are human documents calculated to be an inspiration and a great help to others who are contemplating taking this momentous step.]

A DECADE of my life after my graduation was spent in chasing, as I thought, golden opportunities to impress ideas, train minds, and form ideals for growing young Americans. That same longing that comes to many the world over, who tire of the ceaseless grind in school room, office, and other indoor occupations, possessed me. I tried to release myself from the guidance of the vision that pointed fieldward, but it held me in bondage, until finally business reverses coupled with my wife's and my own ill-health, decided us to find an opportunity at all hazards to have a try-out at rural life. The question was a graver one than it would have been the year previous, for then we had enough to have carried us through the first winter, but now the balance at the bank was on the wrong side of the ledger and we had nothing except courage and faith.

A friend with plenty of land, a vacant house, and a taste for farming offered me a regular "halvers" proposition — something distinctly Southern in flavor — he to furnish the land, a house, and a little money to buy necessities, and to get half of the profits.

The backer of my new venture had a home for the "has beens" in the race business. The drove contained some registered thoroughbreds, and the privilege of selecting one for my use was accorded me.

I knew that to feed fowls on the commercial feeds bought from the town store prevents the possibility of much profit. From a study of grasses I learned that lespideza, a native clover, contained more protein than alfalfa. Alfalfa sells for \$20 per ton in the local market and lespideza can be had for \$10, or can be saved on

almost any farm, for it grows on most of our lands.

By a study of feed formulas I decided to use lespideza as one of the principal ingredients of my mash. Cotton-seed meal contains a large per cent. of protein and is about one-third the price of beef scrap, so I used a little of it in this mash. I purchased a clover grinder to grind the lespideza.

I steered clear of the mixed commercial feeds, using oats and corn as the grain ration, and had marked success in the production of eggs. In addition to the eggs sold we used them as a substitute for meat.

I also knew that upon the kind of feed that the cow eats depends the flow of her milk. Upon its expense depends the profit. I wrote to our nearby experiment station for all the advice that could be given me on this point, also to the Bureau of Animal Industry at Washington. The head of the state experiment station stated that in the south bran should not be used on account of its expense.

Cotton-seed meal, a by-product of cotton-seed, can be had at the local mill for \$21 per ton. Bran will cost



Breaking land with the three-horse disc plow. The average negro farm-hand takes no stock in such new-fangled ways of tilling the soil



A busy day on Three-Mile Farm. Doing your own building saves money



"The boys have a real tent, and every diversion leads to the stream that runs through the field." Is there any comparison between a playground like this and the city street?



A part of the flock of 140 chickens. One of the indispensables in chicken raising is a bone cutter, for green cut bone is the cheapest and most satisfactory egg-forming food obtainable

\$25. Experiments have shown that 100 pounds of cotton-seed meal are worth 200 pounds of bran. Cotton-seed meal is the cheapest concentrate that can be bought, but fed alone will not produce the desired result. The cow must have a variety of feed in order to get a balanced ration.

The poultry, thirty-five in number, was purchased late in the fall. During three months (October, November, and December) three cows were kept. In January the fourth was added.

Here is the story in figures of our initiatory achievement:

September —	Milk sales . . .	\$10.00	
	Expense of feed . . .		\$3.00
October —	Milk sales . . .	\$37.00	
	9 pounds butter . . .	2.70	
	Cost of feed . . .		\$13.65
November —	Milk sales . . .	\$40.85	
	4 dozen eggs . . .	1.20	
	32½ pounds butter . . .	9.75	
December —	Milk sales . . .	\$39.45	
	12 dozen eggs . . .	3.60	
	11½ pounds butter . . .	3.45	
	Cost of feed for cows . . .		\$11.10
	Cost of feed for poultry . . .		3.85
January —	Milk sales . . .	\$53.72	
	30 dozen eggs . . .	9.00	
	Cost of feed for cows . . .		\$19.00
	Cost of feed for poultry . . .		4.00

• My partner in the enterprise has farmed successfully, although now engaged in the practice of law. He has no objection to the ideas that sound to the average tiller of the soil as too new-fangled and smacking too much of the ideas of the theorist. He has bought many improved implements for the use of the negroes on the plantation, but they have been discarded and left to rust. A negro wants a mould board plow. He runs six furrows to make his seed bed. He borrows off his corn or cotton with the same tool; throws out the middles to put the dirt back to the plants and gives it the last rounding out with this antiquated implement.

Access to a two-horse disc plow, a disc harrow, and a riding cultivator was a bonanza to a fellow of the "book larned" type. Added to these I have the use of a traction engine, corn binder, and shredder.

With a view to summoning to my aid every possible help, I wrote to the president of our Agricultural College asking that he send an adviser from our nearest experiment station. This he did, and the visit resulted in a complete plan for crops, pastures, remodeled barn, and crops suitable to a diversification, and advice as to the amount and kind of fertilizers to be used.

My love for the classics has not diminished nor has my wife entirely deserted the piano. A nine months old baby is in the household. He gets a life of the open that few children do. He and his mother on fine days, and there are many even in the winter in the far South, make the daily trip to town with me to carry our home-raised products. Sometimes a trip to the woods is made with me to haul up the fuel, and again he can be found with me mounted on the three horse disc. The boys have a real tent and every diversion leads to the stream that runs through the field, or with air gun in pursuit of game.

There are men all over the South that are land poor. An estate of two or three thousand acres is a common thing. Such a place under present methods of farming does not pay over two or three per cent. on the investment. Many of these lands can be had on easy terms, and I believe that many owners would furnish a small capital to help a man in getting started, be he the kind that is in earnest.

Products in the far South are worth a good price in almost every town of 1,500 and upward. Milk is far better priced than in the North, and eggs also bring a good average price all the year.

Life here is not drudgery. The weighing of milk, keeping records, and testing the milk becomes a science. Studying the needs of poultry, land, and cows furnishes exercise for one inclined to want mental powers not to go to waste.

The route has been circuitous, but for the present the long lane has turned. It is hoped that it points toward the Castle of Success.



A large turnaround with groups of rhododendrons, evergreens, and multiflora rose. Flowers or tender bedding plants are too trivial and hide nothing; shrubs are better.

## EVERY PLACE NEEDS A SERVICE YARD

NO MATTER HOW SMALL THE HOME GROUNDS, IT PAYS TO HAVE A COMPREHENSIVE PLAN BY A COMPETENT LANDSCAPE ARCHITECT—SOME PLANTING IDEAS FOR TURNAROUNDS

By HERBERT J. KELLAWAY

EVERY place, no matter how small, needs a service yard, because every house has an ash barrel, a garbage can, a receptacle for old paper, and a place for tin cans and other incombustible refuse. Moreover, you don't want

cents a ton to have it delivered by hand." If the owner had only consulted a landscape architect, the latter could have saved his fee on this one item.

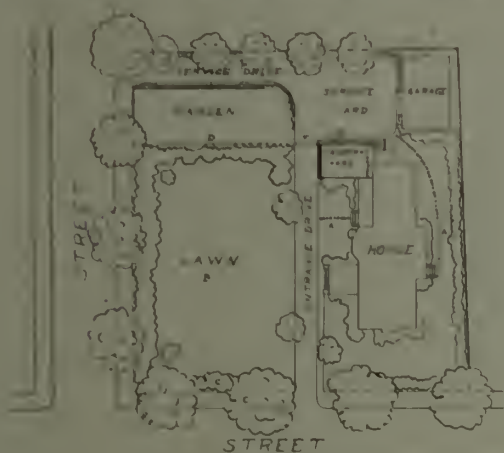
The quickest, and most permanent way to screen all the unsightly objects above mentioned is to build a wall. The first cost is greater than for a hedge, but many people believe it is more satisfactory in the long run. A less expensive way is to build a lattice fence in keeping with the style of the house, and cover it with vines.

Evergreens take years to grow high enough, need more room, and require considerable care, and sometimes fail, but they are more beautiful and natural, and the first cost is less.

Place your service yard close to the kitchen and, if possible, so that the prevailing wind will carry odors away from the living portion of the house. The prevailing summer winds in the Eastern states, as a rule, are southwest, and the kitchen and service yard should therefore be placed on the northeast corner of the building.

Have a service drive, if possible, either wholly separate from the approach drive, or partially so, and let it branch away from the approach drive at a safe distance from the house, to avoid being conspicuous from the front door, and to allow for the screening plantations. Build the service drive on easy grades and good lines. Give ample room so that coal wagons can pass over it freely without cutting the lawn, damaging the shrubs and plants, scattering coal outdoors, filling the house with dust, and leaving ugly black marks upon the building about the cellar window.

Make the drive leading to the enclosure nine



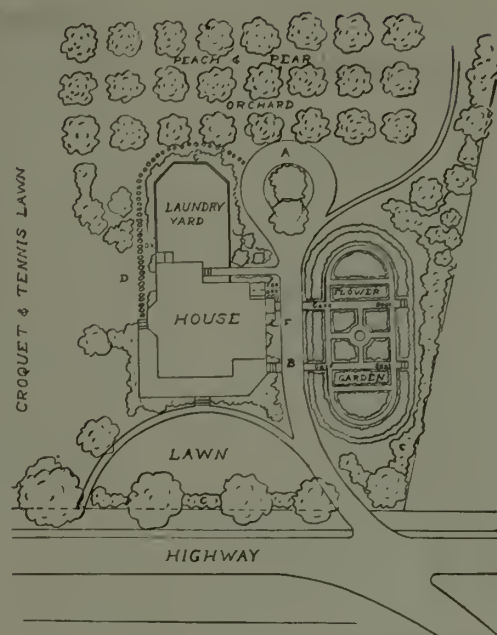
Plan of a corner lot (140 x 140 ft., including sidewalk) to illustrate service arrangements. A. stepping stones; B. croquet or tennis on lawn; C. shrubbery; D. grapes on fence; F. vine-clad archway; G. vines on fence

to have a line of grocery, ice, and garbage wagons passing in front of your house when a friend calls.

Beginners almost never provide a neat, orderly place for these things which shall be hidden from public view and yet be sanitary. It is only when trouble comes that a man wakes up and grasps the problem as a whole.

The ideal solution is to have a comprehensive plan of the home grounds made by a competent landscape architect. It seems costly, but is cheaper in the end. People have an entirely wrong conception of the landscape architect. They think he is concerned only with "offscapes," color values, and art talk. But if he is a competent one, he ought to save his client much trouble and expense by providing him with a scheme that will give permanent satisfaction.

For example, a renter wrote me: "The private road on my place has been put on the wrong side of the house, so that when the coal wagons come they cut across the lawn and ruin it, unless I pay twenty-five



Plan of an inside lot (150 x 180 ft.) showing turnaround planted with trees to screen the service portion. A. turnaround; B. entrance and service drive combined; C. shrubbery; D. stepping stones

or ten feet wide, for one vehicle, or fourteen feet, if two must pass.

Place the service drive where it will be most convenient to the highway and so that existing features, such as trees, boulders, ledges, or hillocks, will help to conceal it from the approach drive, front lawn, or front entrance. It may be combined with the main approach drive to a safe distance from the house, thereby saving some expense for construction and the necessity for building two sets of entrance gates.

Put the service drive on the kitchen side; do not make it pass by the front door to get to the yard. It often terminates in an open turn in full view of the front entrance door, which is a mistake, as it leaves little chance for screening.

A service yard should not be less than thirty-five feet in diameter. If there is a turn, allow fifty feet. The most satisfactory shape is either the circular or hexagonal. It wastes little space. The corner of a

(Continued on page 64)



The commonest form—a bed of cannas. Trees which hide the service portion are best

# THE LOCO-WEEDS AND LIKE NUISANCES

By RODNEY H. TRUE



The seeds only of certain species of lupine are poisonous

ONE of the most difficult problems connected with stock raising in the plains area east of the Great Divide is the so-called "loco disease" which affects sheep, and, to a less degree, cattle, but reaches its most acute and typical development in horses. Young animals become affected with a slow, chronic difficulty, marked by emaciation, loss of strength, and, it is said, by a craving for the weed. Impaired vision and certain mental symptoms, some of

them striking almost to absurdity, have probably given rise to the application of the Spanish word "loco" (crazy) to this strange disease. It affects vast areas and causes unmeasured financial loss.

The cause of this disease is, scientifically speaking, so far, unknown. Strong popular suspicion rests upon two plants, members of the pea family. The "white loco-weed" (*Astragalus lambertii*) occurs over wide areas on dry gravelly hill tops. It is often the dominant growth, and when blossoming in spring presents a very striking picture. At a somewhat lower level on the plains grows the other suspect, the "woolly loco-weed" (*Astragalus mollissimus*).

There are many other suspected plants, and the difficulty of the problem is increased by the fact that the genera to which all these suspects belong are represented in the West by a large number of innocent species with which they may be easily confounded. In isolated instances you will find skeptical ranchmen feeding the suspected plants to their stock. However, a large proportion of the stockmen in the afflicted regions hold a firm conviction that these plants have much mischief to answer for.

So widespread and disastrous is the disease, and so wholesale the belief in the "loco weed" as its cause that, one state alone has spent about half a million dollars in bounty for the eradication of "loco." One of the chief causes of the repeal of this act was the discovery that loco was being cultivated in order to get extermination bounty!

In the wake of the direct losses from "loco" disease have followed results even more disastrous. Chief of these is a marked depreciation in the value of grazing lands on which the "loco-weeds" grow; another source of loss



Fuzzy loco-weed which is suspected of evil on the level range

is the bad reputation of stock grown in these areas. The lack of exact knowledge is at the bottom of great and unnecessary losses to stockmen. Experiments are now being carried on by the Bureau of Plant Industry of the United States Department of Agriculture in the hope of discovering the true source of the "loco disease."

Losses due to like causes in the East are relatively few and their sources far better known. The two beautiful mountain laurels, *Kalmia latifolia*, and *Kalmia angustifolia* and some of the rhododendrons are well known to be poisonous to stock. Animals ordinarily appear to avoid these plants; but the occasional exception occurs, so that year after year, in the regions occupied by these members of the heath family, a fairly steady death rate is maintained.

Sometimes under unusual conditions a large number of cattle are poisoned by feeding upon these plants. A stockman shipped a flock of



Locoed sheep which have lost their wits through eating poisonous plants

sheep from Texas, to a better pasturage in northern Alabama. Here the sheep found and ate the mountain laurel, with all the rashness of inexperience, and their owner suffered a serious loss.

Western ranchmen usually prefer to graze animals which have grown up on the range and have acquired experience in feeding on range plants. They appear to avoid the dangers which so thickly beset "tenderfoot" animals.

Other plants are positively known to produce acute poisoning, followed by sudden death by hundreds among sheep and cattle.

The death camas (genus *Zygadenus*) members of the lily family, send up their slender leaves which have a superficial resemblance to grass blades, and are frequently nibbled by sheep. When the bulb is eaten, or enough of the tops, an acute and fatal type of poisoning ensues. If the animal survives, recovery takes place in a few days.

Wild parsnip plants of the genus *Cicuta* are speedily fatal to both man and beast. In these plants the poisonous principle is pretty definitely confined to the fleshy root system, and it is most virulent in the spring. The plants grow along streams, and in moist places, and, putting out their tender herbage early in the spring, offer tempting bits to the cattle which, at the end of winter are ready to welcome any form of green forage. A piece as big as a walnut of the root stock of either the eastern *Cicuta maculata*, or *C. occidentalis*, the western species, is sufficient to bring death speedily to a full grown steer. The rhizome is easily pulled or trampled out of the soft soil by stock and thus

a considerable loss due to *Cicuta* poisoning is met with every spring in the West. The eastern species is sometimes mistaken for parsnips by ignorant people.

The leaves and tops of *Cicuta* which seem not to be harmful, are eaten with impunity by stock later in the season.

Another source of acute poisoning, especially of sheep, in some parts of the northwest is found in the seeds of a number of native species of lupine (*Lupinus*). These plants are a safe and valuable forage during the spring and early summer. When, however, the seeds begin to mature, the trouble begins. Browsing sheep nibble off the seed pods or pick up the seed. A small amount brings quick and disastrous results. Hundreds of sheep may be stricken down at the same time.

Species of larkspur, especially *Delphinium bicolor* and *D. glaucum*, have been known to produce havoc among sheep and cattle, the former species on the lower range in the early spring, the latter on the summer grazing grounds among the mountains.

In view of these facts, it is hard to account for the popular belief that herbivorous animals possess some mysterious unerring instinct whereby they discriminate between innocent and harmful plants. This faith is not shared by unlucky stock owners when their cattle are dying "upon a thousand hills."

## RID YOUR LAWN OF MOSS

I WAS once called on to rid a lawn of moss. In spring this particular lawn would delight the eye with its sappy, velvety green, while in summer it would show brown patches all over.

In fall I spread a layer of very old and thoroughly decomposed cow manure about half an inch thick over the lawn, raking this in so that it was pretty well hidden beneath the grass. The following spring I

spread the ashes from burnt leaves over this same lawn, putting on an even covering not over a fourth of an inch in thickness, and raking this in also.

That summer I had the satisfaction of seeing this lawn nearly if not altogether free from moss.

C. L. MELLER.



White loco-weed (*Astragalus lambertii*) which may cause the loco disease on upland ranges





A complete low voltage electric plant for the country home, showing engine, generator, switchboard, and a small storage battery of sixteen cells



In England more than here windmills are used to generate electricity and charge storage batteries which ensure continuous current

## ELECTRIC LIGHTING PLANTS FOR COUNTRY HOUSES

By JAMES W. DIXON

[NOTE.— While this article treats only of lighting and the installation of a generating plant, it should not be forgotten that with electric current at hand there are many other possibilities. For instance, the comfort of a score of little labor-saving devices for the home, well known to dwellers in the city, can be enjoyed in the country at low cost of operation, and the same applies to small farm machines. Moreover, where an unfailing stream furnishes a fall of water, a turbine is much cheaper than a gas engine, and in exposed positions on a hill or in open flat country a windmill will charge a storage battery at almost no maintenance cost.— THE EDITORS.]

IT IS undeniably a fact that in the large cities of the East, at least, the march of progress in the direction of improved surface and underground transportation, the great number of new and larger office buildings and hotels, the increased number of theatres, restaurants and shops of all kinds has worked a great change in the conditions which make for home life. The old residential centres have been encroached upon to such an extent that within a few years there has been a strong drift from city to country by those who desire home life in its full sense, while the cities have largely been enveloped by commercial interests.

That out of town life is just as desirable as living in the city will probably be admitted by all, except, for the very natural feeling, that in making the change one may possibly have to abandon some of the conveniences and comforts which city people, especially, are accustomed to and depend upon.

There is another condition which is bound to become more and more clear to us all and which offers a direct inducement for those having an inclination in that direction to take up their abode in the country and to follow scientific and economic farming as a livelihood. A wave of interest in agriculture and in the need for a new and vitalized life is rapidly sweeping over the land.

It is important, therefore, that more should be known of how the modern improvements may be applied to home life in the country, and this, not only for those who

can afford to plan extensively and build well, but also for those who must require that their place of residence be comfortable but unpretentious.

The problems which must be solved to give the country home similar conveniences and comforts to those enjoyed in the city, are not in principle different from those which are daily unravelled in connection with life in town. But until recent years the drift having been decidedly cityward, it is in only certain individual cases that we find that careful attention has been given to the subject of making the country home all that it should be.

What may be accomplished in this direction is a work which it is believed will be both interesting and timely. The object of this article is to show the means by which electric lighting may be obtained economically from one's own generating plant. The first cost of the necessary equipment may be considerably less than people generally suppose, the management is very simple, there being little to get out of order, and the cost of making current with even a small private

plant may be kept down to a rate which is well below that of the public supply.

It is hoped to show here how country homes may be lighted even more cheaply than they can be either by gas or kerosene, to say nothing of coolness, cleanliness and absolute safety of the electric light when it is properly installed. It must also be remembered that the electric lamp consumes no oxygen whatever, nor does it give off any waste products of combustion. An ordinary gas light consumes as much oxygen in an hour as six full grown people and this would be even more if the gas were acetylene.

It is needless to bring forward any further evidence in favor of electric light from a sanitary point of view.

The ideal, small, electric lighting plant consists merely of a gasoline or kerosene engine, dynamo, switchboard and a storage battery of a size proportional to the number of lamps and to the voltage of the system to be supplied. An illustration shows a plant of this kind. The engine and dynamo are run during the day at convenient times and the elec-

tricity thus generated is stored in a storage battery. When the battery is fully charged, the engine is stopped. During the evening, or at other times when needed, the lamps draw this power from the stored energy in the battery. In this way service fully as reliable as that from the public main is secured and that, too, at an operating cost lower than is usual even in closely settled suburban districts.

Within the past few



A typical storage battery cell assembled ready for installation in a battery



The parts of a storage battery cell are few and easily cared for

years some radical engineering improvements have been made which eliminate the possibility of failure to accomplish these results, provided the plant be properly proportioned and designed.

The internal combustion engine, which is the technical name for those of the gasolene or kerosene type, and the storage battery have been so much improved and simplified, that a few words regarding their present day construction and cost may not be amiss.

Small internal combustion engines have been improved with respect to their governing and other features, which make them now very suitable for the operation of electric dynamos. The smallest gasolene engine that will run without considerable trouble and attention is the 2-horsepower size, costing about \$125. The 3-horsepower engine would be found to give better service and costs but little more, say \$150. A suitable dynamo to operate with this engine and a switchboard will cost about \$175. The battery cells will cost from \$3 a cell upward, depending upon their storage capacity.

The electric storage battery is composed of a number of units or cells, as they are technically termed. A photograph of one of these cells completely assembled, is reproduced here and views of the several parts which go to make up the complete cell, are also shown.

As may be seen from this latter cut, the complete cell consists of a glass jar and two sets of plates, which latter are immersed in dilute sulphuric acid and are kept from contact with each other by means of wooden separators. From the above figures, we find that a power plant of the size mentioned may be installed at a cost not exceeding \$500 for the apparatus and to which must be added from \$100 to \$200 for installation, piping and wiring between dynamo, switchboard and battery, together with such foundations and other building alterations or additions as may prove necessary.

The recent introduction into commercial use of the Tungsten lamp is an important factor in connection with the small residence lighting plant. These lamps are far more efficient than the older type of carbon filament lamps, commonly in use and will give an equivalent amount of light with an expenditure of electrical energy equal to only about 40 per cent. of that required by the carbon lamp. This means a corresponding reduction in the size of the plant. One of the chief advantages of the Tungsten lamp, too, is the whiteness of the light. There is little trace of the redness common to the ordinary carbon filament.

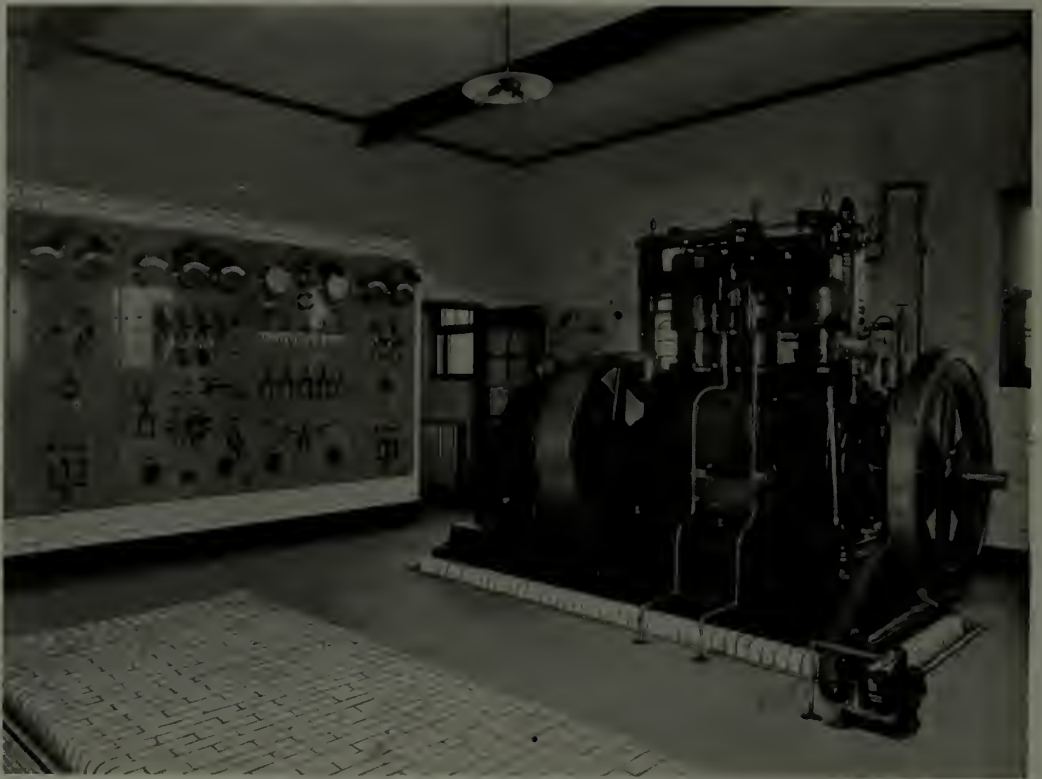
With the present standards of house wiring, the smaller current consumption in these lamps introduces another possibility, which under proper conditions may be advantageously introduced into the design. Of course, there is a limit which experience has shown to be necessary, both as to the number of lamps which may be connected on any one branch circuit and also, as to the minimum size of wiring which may be employed.

With the higher efficiency lamps, it is possible to conform with the requirements imposed by these limits, without increasing the cost of the house wiring and at the same time make use of thirty volt lamps.

Under proper conditions this arrangement has decided advantages. The battery is simplified and somewhat reduced in first cost by the use of the correspondingly fewer cells, the lamps themselves are tougher and less liable to breakage on account of the shorter and thicker filament used and the chance of trouble on the electric circuits is lessened by the use of the lower voltage.

On the other hand, it would be a mistake to adopt a voltage of less than 110, if it is intended to make use of motors for various purposes or, of special electric cooking and heating devices, all of which have been standardized by the leading manufacturers for approximately this voltage and, therefore, would be more difficult to obtain and more expensive, if specially constructed for the lower voltage.

The cost per lamp hour of a 25-watt Tungsten lamp supplied with current purchased from the lighting company at the usual minimum rate



A generating plant for a large country place. A unit plant is desirable in large capacity types, with the generator armature supported directly on the end of the engine crank shaft

for country districts of 15 cents per K.W.H., is 38 cents. The cost of fuel required to supply this same lamp from a small private plant, based upon the use of gasolene at 18 cents per gallon and, of supplying the lamp from the storage battery rather than from the dynamo directly, would be about 22 cents per hour.

If kerosene oil were used at 12 cents a gallon, as fuel for the engine instead of gasolene, the cost of operating the lamp would be reduced to about 13 cents per hour and with fuel distillate costing 6 cents a gallon, it would be only 7 cents per hour.

If the lights be supplied directly from the dynamo, these fuel costs per lamp hour may be approximately halved; the difference, being due to the saving in energy otherwise wasted in charging and discharging the battery, which

loss may be justified by the convenience of running the engine during the daytime instead of during the evening.

From actual tests which have been made, it has been found that a gallon of kerosene oil when burned in the ordinary single wick lamp will last about forty hours and at the market price of 12 cents a gallon, it is clear that the cost of burning such a lamp one hour is approximately 3 cents.

Illuminating gas at \$1 per 1,000 cubic feet represents a cost per hour for a five foot burner of 5 cents. Comparing these with the above costs, it will be seen that the cheapest way to illuminate one's home is by the use of high efficiency electric lamps supplied by a properly designed private plant of the type which is herein described.



For a large plant, too, the capacity of the storage battery must be correspondingly greater, and a separate dry and well lighted room is usually provided for it



CONDUCTED BY PHIL M. RILEY

## CAMERA WORK ON A COUNTRY ESTATE

2 PORTRAITS AT HOME

ASIDE from photographing interiors, home portraiture is perhaps the most interesting of winter pastimes with the camera. It is a happy custom to have occasional individual portraits of the family. In later years when its members become separated for one cause or another a collection of such portraits is ever a source of pleasant recollections. But to have every member of a family photographed by a professional artist, say once a year, becomes a considerable expense. The skillful amateur can make portraits at much less cost and they will possess a certain charm which is absent in most professional work; the sitters will have an air of familiarity and congeniality with their surroundings.

It is a peculiar fact that most people immediately become self conscious with the knowledge that the eye of the camera is upon them, and this is still more apparent when the furniture and surroundings are unfamiliar. The very young and very old are particularly susceptible to these influences because they do not possess the faculty of adapting themselves readily to the new conditions. Old men or women all have their favorite chairs, a light suited to their eyes, and a pastime to occupy their thoughts, without which they are uncomfortable indeed and photographs of them show it. Children, too, fear strangers, the fantastic camera and paraphernalia of the professional studio, and never can be themselves except at play with favorite toys, games or amusements, and in play clothes. In fact, it is a mistake for any one, young or old, to "dress up" for a portrait. Friends want a characteristic likeness as one is, six days a week, not the portrait of a person seen but seldom.

All of these defects in the average run of portraits to-day can be obviated by the clever amateur working at home. The difficulties are great and many makeshifts are sometimes necessary, but the work is very fascinating and the results when rightly achieved are beautiful indeed.

Good backgrounds are to be found in any home, and more appropriate and of greater interest than professional plain grounds, whether light or dark. Nor by interesting is it meant that the background will force itself unduly upon one's attention, to detract from the portrait like-

ness, for, being beyond the subject, it is not as clearly defined, and when properly chosen and lighted is either so much darker or lighter as to be subordinate to him.

Within the limitations of satisfactory lighting the age of the subject should govern the choice of background and other accessories. Old men and women are best photographed sitting in their favorite haunts before an open fire or beside a window. Reading, knitting or smoking, as the case may be, are among the natural pastimes which avoid self consciousness. Young people and those of middle age may be standing or sitting as long as the poses are characteristic, and care must also be taken to see that such accessories as furniture and decorations are not inappropriate to the person or costume. Men are more at home in the library and women in the drawing room; and man or woman, when wearing riding clothes, for instance, would be better portrayed before the living room fireplace or in some simple interior rather than the drawing room which suggests evening clothes. Children can be photographed almost anywhere. They are invariably all over a house in every sort of unconventional attitude. Their favorite place, though, is the floor, and there they can

often be portrayed charmingly in the light of sun patches from nearby windows. This often cuts down exposures—a desirable thing when children are concerned—for they will not keep still long.

Simple walls, corners, windows and window seats all furnish appropriate backgrounds when well back from the subject so as to be somewhat out of focus. Prominent patterns in the wallpaper and too much bric-à-brac are confusing and should be avoided.

Whoever the subject may be, self consciousness is the thing to avoid, and the camerist who makes all his plans beforehand and then carries them out quickly and unerringly will achieve the best results. Posing in the ordinary sense of the term should be avoided. Place your sitter in the most advantageous position, give him something appropriate to do, and leave him to his own devices, concerning him as little as possible with your own preparations. Watch

him as you get your camera in readiness and when his pose and expression is natural and good ask him not to move for a few seconds. Catch him unawares and at a time when he is not looking into the lens. This avoids a staring expression which might result from an exposure of the duration required in an average room.

The location of the subject and the choice of background must, of course, depend upon the light to a certain extent. It is usually desirable to have a good source of illumination to one side and slightly in front of the subject, but its absolute location or height from the floor is not essential, for in the disregard of convention as found in the professional studio lies the charm of home portraiture. If the subject is lighted sufficiently it matters not greatly the position of the camera or the direction of the light so long as a silhouette is avoided. Even a window furnishes a possible background when the sun is not shining into it, provided another window admits enough light to the figure so that a long exposure is avoided.

Unlike the professional who works constantly under similar conditions the home portraitist finds no two compositions alike and must vary his exposure accordingly. Experience in any given house is the only true guide and it is

(Continued on page 68)



"Mother's Boy." By Rudolph Dührkoop



"That Was a Good Story." By Madison R. Phillips



CONDUCTED BY JULIA E. ROGERS

*Human skill fails utterly when it comes to the bird's trade of nest-building. But we can do birds an immense service by providing good nesting sites. A jack-knife or pruning scissors, used this month, may bring us bird neighbors by tens and dozens. If you want bird neighbors, prepare for them now. Set apart a wild garden for them, and get out your pruning knife. Let the Director help you on any nature study problem.*

### A BIRD SHELTER THAT COSTS YOU NOTHING

**I** DO not doubt that many readers of this page have wished that they could spend the time and money necessary to build food houses, and mount nest boxes and food bells, for the comfort of the birds. But they couldn't afford the time and money needed. Busy people are constantly asked to do more things than they can possibly do. I am going to ask a new kind of effort on the birds' behalf: a kind that saves both money and work, and yet attracts the birds. What others have done, you can do this spring.

Instead of trying to take care of all the ground you have, spending money, time, and worry keeping your premises "cleared up," set apart a patch that shall be judiciously let alone — allowed to grow up in a jungle, as nature pleases. Devote your time and energies to the lawn and flower beds and the vegetable garden. These are the things you may worry about, because you have assumed responsibility for their success. Leave the tangle to the plants that are struggling among themselves for mastery. It is not neces-

sary to apologize to anybody for its appearance. Say it is a bird shelter you are growing — a wild garden experiment, undertaken to get more native birds about the premises than come when the grounds are neat and hedges clipped. Canary-birds in cages are the only birds one finds in some such places.

A bit of old fence-row, if you live on a farm, is perfect for the experiment. The roots of many plants you have been grubbing up for years may still be alive, and how they will send up suckers, now they find that your warfare has ceased! A dozen species are quick to show themselves. Because the patch is back where it does not obtrude itself on the public gaze, it attracts little attention while the first season's spring growth is coming on. The seclusion means quiet, and here the birds find opportunity for nesting under favorable conditions.

I have advised judicious idleness on the part of the makers of this bird shelter. This does not preclude the owners from visiting their neglected patch to see what birds are there and how the plants are coming along. A visit rouses interest. The desire to do something helpful to the birds is irresistible.

Make play of your job, if you feel like taking a hand in the developing of your little bird paradise. If the planting is sparse and you think ground-nesting birds would like more shade, follow the advice of Baron von Berlepsch, given in *COUNTRY LIFE IN AMERICA* for September 1, and December 1, 1911. If you have neighboring woods and a wheelbarrow, take a Saturday afternoon for digging up a few saplings of these

shade-loving trees: hornbeams, lindens, hawthorns. February is a good time, if the ground is in condition to permit digging, to get the small trees set out under the big ones, and accustomed to the new location before spring starts the new growth.

Collect seeds of the desired trees, and plant where such trees are wanted. Beeches are more likely to come from seed than seedlings are to grow when transplanted. Add the mountain ash berries to the list. They are important food trees for birds in winter. Plant the wild gooseberry and other berried shrubs. Plan for a row of giant sunflowers along the line somewhere between the gardens, wild and cultivated. This supplies a valuable crop of rich, oily seeds, for the winter birds.

*Pruning provides nest sites in trees and bushes.* Another February job in the wild garden is sheer fun. Look at the pictures that show how pruning comes in as one of the most important features of preparing a thicket for the coming of the birds. The returning throngs are looking for places to build nests. This is the big enterprise that dwarfs everything but the question of food and water supply. The birds that build in the open are on the lookout for suitable crotches in trees and bushes. This is where your pruning knife comes in. Many a cluster of small branches surrounds a larger, central "leader." The nest can be built only if this leader is cut out. See how many nest sites you can create in your thicket by docking these aspiring branches, and cutting back the small twigs that form the

(Continued on page 66)



The "leader" cut out, the small twigs form a nest-cup that no bird can resist

A corner of the bird paradise at Seebach, near the castle, where bushes are tied and branches docked to form nest-cups

An old linden tree whose pollarded branches are pruned to hold birds' nests



CONDUCTED BY DAVID PHELPS

## THE REVIVAL OF A PROFITABLE OLD-TIME INDUSTRY



"Long about knee-deep in June"

**A**n industry of great importance to New England and the East generally a few years ago, but which has been abandoned with great loss to many farms, was the rearing and training of draft oxen,

now being revived. The ox is highly valued as a draft animal the world over; the sweet, hillside pasturage of the temperate zone is eminently adapted to the growth of good steers, and the expense of raising calves until they are two years old is light. At this age they are ready to begin training, and can perform many useful labors, that are not heavy, so paying their way; and never afterward will they need to be in debt to their owner.

It was formerly the custom of most farmers to raise from one to five pairs of steer calves, and sometimes as high as a dozen, each year. The matching and training of the calves began before they were six months old, frequently, and was continued daily in winter, forming a regular portion of the winter's work. Strings of young steers make a tireless machine for the breaking of snow-blocked roads, logging, lumbering, the gathering of the delectable maple sap, sledging out of the manure, and not least, the drawing home of the winter's wood. The wood pile is and always will be a feature of real country life.

Steers readily conform to the need of a steady plow power, while their activity on the harrow is proverbial, and their food, nibbled at noontide along the highway or in the near-by "ox pasture," makes quite a difference on the books, from the expense of grain usually bought for horse teams. They accept every phase of farm work with cheerfulness, even to the dragging of mowing machines, to which they are quickly

trained; also the big hay wagon with its automatic loader. The great strength of the bovine race makes it of special usefulness in any place where heavy weights are to be moved and where there is continuous rough, hard work. The individuals rarely develop nervousness, or fret or chafe under stress of hardship; they hold their own admirably, never perspire through the skin, and require little if any money to be spent for grain, shoeing, harness, blankets, clipping or other things which horses find indispensable.

The ox is not necessarily intolerably slow in gait, for his walk depends much upon his breed, and the training received when a steer. The most satisfactory ox team is the one that is bred and reared on the home farm, though many men have made a neat annual profit buying steers at three years old past and unbroken, training them to usefulness in winter, and after having their services for a year, selling them when opportunity and the season's harvest permitted. Old-fashioned farmers following this method usually had two or three yokes on hand all the time, so that as fast as one team was sold, more were ready to take its place.

The high price of horses and of horse feed is at least in part the cause of the return to these useful, general purpose teams. Their period of activity is not so long as that of the horse, but if accident or unsoundness befall them they are still of utility for beef, while horses of similar worth may prove a total loss. The diseases to which oxen are subject are comparatively few, and unsoundness does not happen them so readily as horses when at continuous severe labor. Because of this reason in part, many rural towns prefer

to own and use them for their public work like road and culvert building, repairing, hauling of road material, making fills, breaking snow roads, etc.

The cost of oxen, when buying, depends upon weight, age, closeness of matching, as well as upon the ease and readiness with which they perform their labor. Prices range from \$150 to \$350 per yoke, for the fanciest, and even at the latter price they are cheaper than horses of similar weight, both in first cost and in the expense of daily maintenance. The teams will return a good annual profit above their keep every season until twelve years old, but are



Yokes of steer calves broken by boys and exhibited by them at the Wolcott, Conn., fair. Some breeds take more kindly to training than others

grass fattened usually before reaching this age, and "turned" to the meat dealer.

A keen knowledge of cattle and their characteristics and requirements is demanded by any person intending to carry on this phase of country life. If the farm owner is a city man and lacks this insight, it will pay him to keep a "natural cattle man" in his employ the year round, although many men incapable of properly managing and caring for a span of choice horses will do well with cattle. But inefficient or inexper-



The high prices of horses and horse feed is partly the cause of the return to these useful teams. Champion draft oxen owned at East Village, Conn.



Oxen owned by a Connecticut town and used for public work, such as road and culvert building, hauling road materials, breaking snow roads, etc.

inced men should never be given a team of raw steers to train. Furthermore, men of violent temper are not to be trusted with oxen any more than with horses.

When looking for steers that promise to become large, meaty, docile and tractable, the buyer, as in buying colts for a special purpose, must look through and beyond the young



Most of the materials for making this "stockman's life-saving station" can be found going to waste on almost any farm.

animal, to what its appearance and blood indicate it will become. Scrubs or native cattle often make excellent oxen, but the buyer of steers must needs see the stock from which they sprang to conclude accurately what weights they will attain. Of the pure breeds and their grades the Devonshire, Shorthorn, Angus, Holstein-Friesian, Jersey, and the Swiss are doubtless best in the order named. Jersey and Swiss become oxen of noteworthy activity, as indeed does the Devonshire, but do not reach the weight of the latter, nor show his intelligence.

In training calves there appears to be more in the frequency of the lessons than in their duration. Care must be taken at first that they do not "turn the yoke" nor jump and run while being unyoked, thus forming a bad habit, and that they do not run away. A sedate, matter-of-fact habit having become fixed, there will thenceforth be but little trouble with calves of this or any other breed, and if trained in calfhood, the "breaking" in maturer steerhood will not be found needful.

HOLLISTER SAGE.

### STOCKMAN'S LIFE-SAVING STATION

**M**ANY a young lamb or pig has died from lack of a safe, hot place to put it for an hour when chilled. A most ingenious affair for this purpose attracted my attention recently; it was homemade without the outlay of a cent, and requiring but little labor. The heater was merely the combination — the assembling, so to speak — of idle things lying in various places, into a most useful mechanism, available as a "first aid" and almost instantly. Anybody may make it in a few minutes by sawing in the side of a cider cask a square hole large enough to admit a square gallon paint can or maple sugar can, mounting this barrel on two supports and suspending the can on wires so that one quarter its length shows below the barrel and the upper part is inside. This is filled with water and the cork is left out for expansion. Under it is placed one of those small, single burner, fifty-nine-cent oil stoves, which on occasion heats the can of water and

makes the barrel like an oven, where a chilled youngling may be heated and then suffocated were it not for a little window cut in the top of the end of the barrel. Over the head of the barrel, which is shown open, a blanket is thrown and another is placed in the barrel next the heater can. On this, pigs or lambs so stiff that they are apparently lifeless, will revive and do well. For it is a known fact that the young of all animals find an abundance of artificial heat the vitalizing force which will restore them to activity when everything else fails.

The box shown incidentally at the left is also useful. It is a light, pine, store box with a cord attached to carry it by, and is employed to move little sufferers to the "station." H. S.

### THE SECRET OF MAKING \$1,300 A YEAR FROM 700 HENS

**M**R. O. D. WELLS of Somerset County, Me., is making \$1,300 a year from his flock of 700 hens, and has after only four years' experience had remarkable success in raising his chickens. This year from a flock of 1,200 chickens he has lost practically none. How he has accomplished this is simple.

He has a brooder house that is 100 feet long by 12 feet wide. It is divided into three equal parts, each having its own yard. These occupy about an acre. In this house he runs his incubators, of which he has three. He runs these three times, starting about February 15th. The first hatch is put into the west end of the house and the second into the centre. When the third lot is hatched he takes the brooders from the oldest chicks and sets them up in the third section, taking away the incubators entirely.

Here is where Mr. Wells claims that he has had his greatest success. While the chickens are hatching he has his yards plowed and seeded to oats. By the time the chickens come from their brooders the oats are up, and the chicks are turned into the yards and feed upon the green stuff. This is the salvation of the little chicks. They begin to stock up and show a growth and healthy look that is seldom equalled. He usually starts the chicks on commercial chick

In September the other hens are all killed off and sent to a wholesale marketman in Boston, where Mr. Wells always sells all of his poultry and eggs. He finds this very satisfactory, for he strives to maintain the high quality of his products and receives in return the highest prices of the market, though having to ship a distance of 230 miles. He has too much stuff to sell to bother with uncertain local markets and besides gets better prices in the "Hub." This killing of the old hens lasts about a month. Then when the hen house is ready for occupancy, the new pullets are shifted to their permanent places in it from the brooder house where the first half of their lives has been spent. Mr. Wells has a hard and fast rule never to move his hens about more than is absolutely necessary.

An accurate account of what each pen of hens is doing is kept though no trap nests are used to determine the layers, as Mr. Wells believes that a vigorous pullet must lay if given the proper food to make eggs. From the first year of his poultry business he has been able to tell just what the cost and the profit of running his business amounted to. He now uses the same hen house he started with, it being of the open window-front type with curtained roosting closets. It is 15 x 263, and is divided into ten pens 15 x 20 ft. and four pens 12 x 15 ft., with sixty birds in the larger and twenty-five in the smaller pens. One hundred-foot yards for each pen extend to the north of the house.

By carefully watching the effect of different feeds he has constantly increased his profit, though never increasing the number of hens. He feeds regularly several times a day and never loafes away from home when feeding time has come. Dry mash forms the mainstay of the hens' food. In the morning and at night they have hard grains, either corn, wheat, or oats, in deep litter, the amount of grain being determined by the weather, the egg yield, and the condition of the hens; to get the best results is a science in itself. About noon, winter and summer, they are fed some kind of green stuff. In early spring it is rye, from which, as he sows it thick, he is able to cut three crops before it becomes too tough. Later, clover and alfalfa



View of the brooder house, showing chickens feeding in the green oats. Mr. Wells claims that green grain, on which the chicks begin to feed as soon as they come from the brooders, is the secret of his success.

food. At the end of the first week he adds dry mash, and after the chicks are three weeks old the food is gradually shifted to cracked corn and hard grains. As long as the market keeps up he continues to kill off the cockerels as broilers. After that those remaining are put into a special yard and finished as roasters. The pullets remain in the brooder house until October.

The breeds which he has found the most satisfactory and which he now keeps are the Rhode Island Reds and the Barred and the White Plymouth Rocks. All of the pullets he keeps each year for layers. Also 250 of the best year-old hens he puts into pens by themselves in the fall for breeding purposes. In this way when it is time to breed, all there is to do is to put in the cockerels, three being run with each pen of twenty-five hens and four with the larger pens. New blood is introduced every third generation through purchased males.

are used, and last of all mangle beets and other vegetables. All of this green stuff he raises on his poultry farm, which is quite remarkable when you consider that he has only three acres for house, barn, poultry house and brooder, and cultivation, and besides raises stuff for a horse and cow and has a vegetable garden. He does this by keeping most of the land in cultivation all the time. He places a good deal of emphasis on green food to increase profit.

One thing in Mr. Wells's favor is the kind of soil on which his farm is situated. It is sandy loam, perfectly drained. His spring sowing of oats in the chicken yards sweetens the soil there yearly. He has never had much trouble with vermin. His preventive measures are to spray the roosts regularly with crude petroleum. The brooders are also sprayed, and ample opportunities for dust baths take care of other parasites.

JOHN E. TAYLOR.



Near Hamilton, Bermuda

# Country Life Abroad



CONDUCTED BY MADISON R. PHILLIPS

[The object of this department is to give a few suggestions which it is hoped will prove of value to the American who travels abroad. Further information as to where and how to go may be obtained at promptly as possible by the COUNTRY LIFE IN AMERICA Readers' Service.—THE EDITORS.]

## MAKING THE MOST OF BERMUDA

**B**ERMUDA'S particular spirit is the joy of the open. This feeling takes hold of one on the voyage out, waxes strong when one first surveys the "isles of summer" from the steamer's deck and grips one hard directly he has set foot on the northernmost territory that the wonderful coral insect has made to rise from the sea. And it is a mighty good feeling.

To make the most of Bermuda it is merely necessary to get into this spirit, in a sort of lazy fashion—something like rolling off a log. This is easy enough, in all conscience; for if one were to stay there from January to December, the great call would be the call of the out-of-door life. From the road it is heard, and from the field, and from the water.

It is from the water that the Bermudian finds the call most insistent, for sailing before the wind is bred in the bone. Six hundred miles of sea lie between him and the nearest point of land, and salt water is rarely out of his daily range of vision. This love of the sea finds modern expression in racing with that favorite local craft—the cedar dinghy, a boat some fourteen feet over all. The dinghy not only provides good sport for the onlooking visitor, but offers him an admirable suggestion as to one of the best ways of enjoying Bermuda—by skimming over its glorious stretches of still waters.

Half the charm of Bermuda, in fact, is being on, and in, the sea. There is yachting for those whose ambition soars above the dinghy and for other tastes quite as good a field for motor-boating and canoeing—not to mention the

fishery that may be coupled with any of these diversions. As for swimming, it is capital in the deep waters of Hamilton, either from the shore or from the islands. For more timid swimmers and the wading contingent the shallower sounds of the north coast provide quite as picturesque surroundings, and of late tourists have been waking up to the fact that going over to the south side of Paget parish for the surf bathing is well worth while.

The other half of the charm of life in Bermuda is, perforce, on the land; for, since the days of *Ariel*, there has been nothing doing there in the way of aviation. Driving over the upward of one hundred miles of limestone roads easily takes the lead; not because intrinsically it is the best way to see the islands, but because it follows along the lines of least resistance; and everyone knows what a prominent part that plays in travel. The automobile being rigidly, and rightly, barred out—on account of the narrow roads, sharp turns and steep grades—driving means behind horses. It would be idle, of course, to attempt to make the average visitor see the why of it, but you really get more of Bermuda afoot or awheel. The distances are never prohibitive—it is only a little more than twenty miles from one end of the group to the other—and the pedestrian or cyclist has a sense of freedom impossible with a carriage. Even in July cycling is very comfortable, as there is always a breeze. A coaster brake should be used and in case of anything but a prolonged stay it is wiser to hire a wheel there.

Golf and cricket, though the most important of Bermudian field sports, are of less concern, in the nature of things, to the general run of the ten thousand or more Americans who annually visit these islands. The relatively few who play golf, however, will find the nine-hole course of the Bermuda Golf Club at Spanish Point a "sporty" one. As for cricket; much as this essentially British game is made fun of in the United States, it is a good relaxation for the American to watch a game. In Bermuda, the negroes are keen players and what with the civilian, army and navy contingents, there are all kinds of elevens. When there is nothing better to do, the society game is worth gazing upon. It is played only a matter of weeks, the "high season" running from the first of February to Easter. Nor is it played by very many of the said ten thousand.

The sights of Bermuda are less valuable as wonders than as agreeable incidental features of sanely making the most of the place. The three great fish sights—the sea gardens of the reefs, the new Agar's island aquarium and the Devil's Hole—keep one close to nature. So do the Crystal and Admiral's caves, the view from Gibb's Hill lighthouse, the lily fields of March and April, the musical services at the post and the spots associated with Thomas Moore. All these are primarily means to the end of enjoying life in the open—which, as already has been remarked, is the great thing about going to Bermuda.

One thing more. It is always summer in

Bermuda, but not always midsummer; the climate is sub-tropical, rather than tropical. There are, accordingly, occasional days in December, January and February when it is foolish to expect warm sea-bathing or to be comfortable without slightly heavier apparel than is required for the hottest days at home. H. S. ADAMS.

## FEBRUARY NOTES FROM ABROAD

**T**HOSE who prefer an active vacation in winter to one of laziness in summer, and who enjoy winter sports, will of course, hie them to a place where constant snows are certain. Even Canada, so near us, offers much good sport of this sort, yet nowhere can winter fun be so genuinely enjoyed as in Europe. Switzerland is always first in the public mind and Norway is rapidly becoming very popular.

Of winter sports the chief centres of these two countries offer every sort known to man, but of them all bobsleighbing and skee jumping are the most popular. Bobsleighbing has the distinct advantage of supreme thrills without great danger, because the beginner can be accompanied and taught by one who knows the course. Skee jumping, on the contrary, requires much practice before one can attempt the spectacular jumps, and even then unpleasant spills are frequent. Serious accidents, happily, are very rare because only the experienced venture the high jumps and the steepness of the slope and the hardness of the snow break the falls of the unfortunate.

Starting upon a steep straightaway run terminating at the "take-off" one flies into space

(Continued on page 58)



Not the least interesting feature of a trip to Bermuda are the amusing little blacks



The dustless coral roads of Bermuda are good, and even the alleys are remarkably clean



If you have not visited Bermuda the punishment fits the crime. With a round-trip rate of \$20. "Home Sweet Home" is the most extravagant place on earth



In February little black urchins are climbing the green leaved palm trees in high glee



This resort with its rock-bound shores and tropical aspect is only forty-five hours from New York



This is but one of hundreds of coves in which, thanks to the Gulf Stream, one may sail in a balmy breeze redolent of the scent of blossoms and green foliage of a foreign country



As in all warm climates the sunsets over the water are an event of the day



At places along the south shore the wonder works of the sea offer the never-ceasing fascination of exploration. Caves and arches of great beauty are very numerous





# THE HOME-BUILDER'S SUPPLEMENT

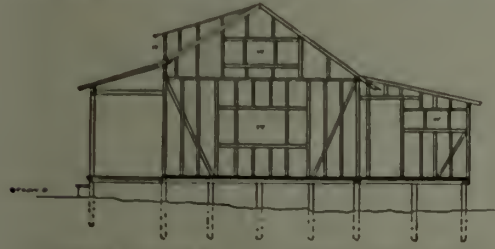
## HOW WE BUILT OUR BUNGALOW FOR \$450

By F. J. DE LUCE

Photographs by the author

ON THE north shore of Long Island, where the waters of the Sound furnish a never-ending panorama of maritime traffic, and the bays with their yellow beaches and tree-clad hills form a scene of natural beauty that one seems never to tire of, on the shore of a pretty inlet can be seen our cozy bungalow.

Standing in front you see a one-story structure 22 feet long by 16 feet wide, with low

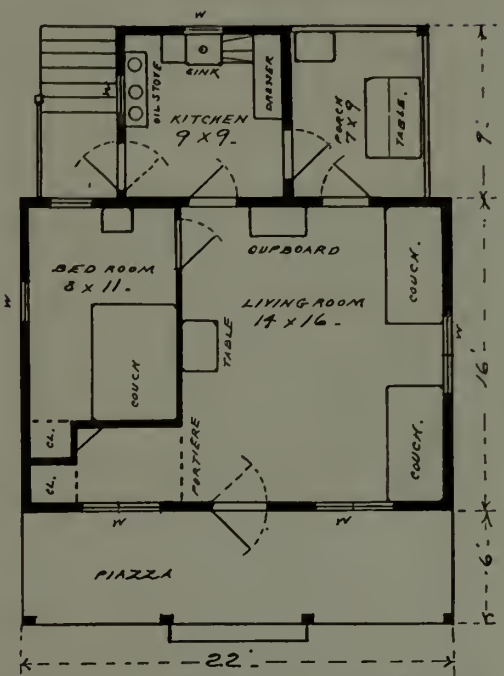


Drawing showing how the bungalow was framed

shingled roof, and eaves overhanging a foot and a half. A piazza 6 feet wide runs across the front, and in the centre of the roof is a little dormer window with sash 18 inches high by 22 inches long. A Dutch door—that is one divided across the middle allowing the upper half, which is glazed, to be open while the lower half is closed—forms the front entrance. On each side of the door are windows of two panes, hung on hinges and opening inward. They are about 4 feet wide by 3 feet

high. So much for the front. In the centre of the right gable end is a window similar to those in front, and in the upper gable, which is shingled down to the eaves, is a window 28 x 30 in., swinging in from above; the other gable end duplicates this, except that the bedroom windows are but 2 feet wide, and there are two of them. A simple ornament serves to fill in the upper angle formed by the rafters outside. At the back is a kitchen with shed roof and sliding window. The outside is painted a light green with dark green trimmings.

Inside, the living-room, 14 x 16 ft., is ample; it has a permanent cupboard with shelf over it and one in it, room for two large couches that become beds at night, and a little dressing room with closet screened by a portière. The bedroom, 8 x 11 ft., is formed by a simple board partition 8 feet high; it also has a closet. The kitchen, 9 x 9 ft., was found to be just the right size, cupboard and three shelves, sink and oil stove, all finding a place therein. The 7 x 9 ft. porch has a rail, is screened with mosquito netting and bamboo curtains, and contains a drop-leaf table seating four, chairs, and refrigerator. It is used as a dining-room all summer. On the other side of the kitchen is a 2 x 4 ft. platform and a flight of six easy steps. The screen doors all open in, and all windows in the upper part of the house are worked by cord and pulley. The inside was left rough, but could easily be ceiled at slight additional expense. The frame, floors, and all boards used in roofing, were second-hand, bought of



Floor plan. The greater part of the floor space is concentrated where it is most needed—in the living-room

a house wrecking firm on the East Side of New York City. The material is sound, if it does sometimes look rough. The outside of the



Front view of the \$450 bungalow. Only by the elimination of a chimney and all mason work was such a price made possible



The 9-foot lean-to at the back of the house provides space for a compact little kitchen and a screened-in porch for summer dining



Some good-sized cedar trees on the site determined the location of the bungalow

house was new white pine novelty siding of good quality. All doors and windows were second-hand, as they can be bought for less than one-third of the price asked for new, are good, and have the locks and hinges on them.

As to the cost, it will depend upon how much you do yourself. We secured a good carpenter who agreed to take the whole job, start it at a certain date and push it right through for a definite amount of money, with no extras. He brought a helper. The writer, about equal to half a man, assisted and furnished all material, being allowed a reasonable compensation for his time. We finished in three weeks. All the cupboards, screens, shelves, and other conveniences I added at my leisure, and the painting was done in like manner. The sink was connected to a half-barrel set in the sand at a distance from the house and filled with stones. We have a good substantial little house which accommodates four, and which we occupy until November by using an oil heater. By taking advantage of second-hand material, the whole cost was kept within \$450.

For those who wish to put up such a building, the following details of construction may help: first we selected two bottom timbers, or sills, 4 x 6 ft., 22 feet long, and two 4 x 6's 16 feet long, and sawed them exactly to their proper lengths for the main body of the house, i. e. 16 x 22 ft., and halved the ends to fit each other. Having decided the front line of house and one front corner, a 5-inch locust post was set 3 feet deep, tamped solid, and sawed off square at height of bottom of house. Twenty-two feet on the front line measured from outside to outside of posts we set another post and leveled the two. Measuring back at right angles 16 feet and squaring, we set two more posts. After sills were all nicely leveled and squared on the four posts, we proceeded to set posts about four feet apart all around, sawing them off at bottom of sills, any little inaccuracy being taken up with a piece of shingle. Kitchen and back porch were treated in the same way, only here the sills were 3 x 6 in. With the posts all in and the sills squared and leveled and spiked to posts (upon this depends the squareness of your building) we next placed our 16-foot floor beams 18 inches apart with notched ends resting on 1 x 2 in. strips of spruce or hard pine nailed along the lower inner edge of sills. They were then toe-nailed with tenpenny wire nails. Floor beams for kitchen and back porch were just common 3 x 4's treated in the same way. After the floor beams were laid, a stringer 3 x 4 x 22 ft., was placed under the centre of the house on posts set about four feet apart, and spiked solid, to take up any vibration of the floor. On top of the floor beams was laid a rough floor of second-hand roof boards 1 x 10 x 14 ft., with seams at an angle of 45 degrees to the front of the house. On top of this we laid carefully a floor of 1 1/8 x 2 1/2 in. second-hand yellow pine flooring, joints running from front to rear, except in the kitchen, where they ran from side to side. We had now a solid platform upon which to erect our studding which was 3 x 4 in. spruce, spaced 16 inches apart, 8 feet high all

show outside of boarding under piazza. The rafters were laid out on the floor to correct angle and nailed together. Spaces for windows and doors were left, and all corners braced. Overhanging rafters 18 inches out from main frame were held in place by strips of flooring running back on two rafters, and also by the ceiling of the overhang, all made of 2 1/2-inch yellow pine flooring. Shingle lath were 1 1/4 x 3 in. The kitchen and porch frame was all 3 x 4 in. stuff, also the floor beams. The porch was floored with 1 1/8 x 2 1/2-in. yellow pine. The frame of the front piazza was made of 2 x 6-in. spruce nailed up to a strip on the front sill, and had longitudinal strips of 3 x 4-in. spruce 18 inches apart for nailing down the floor, which was of 1 1/8 x 2 1/2-in. yellow pine, with about two inches pitch toward the front. The piazza rafters were 2 x 4 x 7 ft. spruce, dressed; and the piazza columns 4 x 4-in. square spruce, dressed.

The main roof, piazza roof, and gables were covered with 6,000 6 x 18-in. cypress shingles laid 5 inches to the weather; the kitchen and porch roof with 1 1/8 x 2 1/2-in. yellow pine flooring, best side down, and patent rubber roofing on top. The walls of the entire house were covered with paper and with 1 x 8-in. white pine novelty siding. The corner boards were 1 x 3 in. white pine. The window and door frames were of new white pine, with sash made to swing in on hinges. The material for six doors and ten window frames cost about \$15. It is better to have a carpenter make these to save time and trouble; two men made them all in a day.



A corner of the summer dining-room

Strips of tin were put over windows and doors, and wherever a leak suggested itself. After all nails were properly set, a priming coat of half paint and half raw oil was given the outside, nails puttied, and a good coat of light green with dark green trimmings applied

around except in front where they were made about 8 feet 9 inches, to allow the proper slope to the piazza roof. The corner studs were made double, and all toe-nailed with ten penny nails. The studs in the gables were not required so close together, as they had shingle lath nailed on the outside. The plates, nailed on top of the studs, were 2 x 4 x 16 ft. single on the ends, and 2 x 4 x 22 ft. double on the sides of the house. The rafters were 3 x 4 x 12 ft. at back, and a little shorter in front to nail on to the piazza rafters — their ends do not

## A PLEA FOR WINDOW BLINDS

IN PAYING a visit to Upper Montclair, N. J., a short time ago, I was struck with the preponderance of stucco exteriors among the houses recently erected. Some were dark gray, some light gray; a few were tinted green or



A concrete house in California style, whose cold, hard appearance is but partly alleviated by the tile roofs

cream. To my mind they all looked bare and hard in outline, in the absence of vines and big trees. Upon closer study I came to the conclusion that a large measure of this cold appearance (it is equally hot looking in summer) was due to the small amount of woodwork and the entire absence of window blinds or shutters.

"Why do none of these houses have window blinds?" I asked a real estate man.

"They don't put them on this style of house," he replied.

"Don't people ask for them?" I inquired.

"Oh, yes," said he; "sometimes. But the architects and builders persuade them that blinds



Trees and vines soften the outlines of this house, while shutters save the second story from bareness

and shutters are going out of style on modern houses, particularly those of this type. Besides, it saves quite a sum on the cost of the house to omit them."

If this is true, if window blinds are indeed going out of fashion, it is certainly a great pity. They not only dress the exterior of a house and soften harsh window outlines, but they seem to add a homelike atmosphere.

Moreover, window blinds are as useful to-day as they ever were. They enable one to sleep with wide-open windows even during a windy rain or snow, and in summer they keep out the glare of the sun without shutting out the air as much as the shades do. I would advise prospective home-builders, especially inexperienced ones, to think twice before they let the architect cross window blinds off the list of specifications.

EDWIN MAKEPEACE.

## BUILDING THE CHIMNEY

IF YOU want a chimney that will last, do not have it built with the upper courses of brick wider than the lower. The weather readily loosens bricks so placed, as the rain, etc., works its way into the cement easily. A straight chimney will last far longer. Place a good capstone upon it and have the tile flues extend to the top of the capstone. Allowing flues to end below the capstone tends to make the chimney likely to come apart easily.

C. K. F.



A beautiful old veneered mahogany table with centre inlay. Scraping off the old finish



Jacobean highboy found in an old junk shop. When scraped and refinished it was a prize



Each coat of shellac must be applied evenly and quickly and allowed to harden before being rubbed down

## REFINISHING OLD MAHOGANY AT HOME

By MABEL TUKE PRIESTMAN

Photographs by H. J. BENTZ

**T**HERE is a charm about old mahogany that appeals to everyone, and sometimes in the country or at junk shops in the city, old pieces in a dilapidated condition can be picked up for a mere song. It does not cost much to have the pieces repaired, but the expense of finishing adds so considerably to the cost of the article, that we are frequently deterred from buying it.

There is no reason why finishing should not be done by an amateur; there is no secret process about it, but a certain amount of trouble and labor must be gone through with to bring about the desired result. There is no quick road to getting the beautiful old finish that we so often see in old furniture shops. The mahogany must of course be repaired, and this had better be done by a cabinet maker if pieces of wood have to be inlaid, and if the veneering is broken off or edges marred, but amateurs can perfectly well do the finishing themselves, if they faithfully follow all the necessary processes.

A couple of trestles carefully padded make good supports for all kinds of furniture. The piece to be repaired must then be scraped until every particle of finish is removed and the bare wood is exposed. A steel scraper (sold for the purpose) must be taken in both hands and drawn toward the worker, repeating this process until the whole surface is scraped. A piece of broken glass can be used if a scraper is not available. Then a coat of paste filler must be applied with a brush, and while wet thoroughly rubbed in across the grain, and allowed to stand until the filler hardens, which would possibly take about forty-eight hours.

Another excellent way of preparing the furniture is by applying a solution of potash to the scraped wood instead of using a filler, but this needs to be done by an expert; it is too difficult for an amateur to attempt. The effect is more perfect than when a filler is used, as the filler going into the grain darkens it, while the potash reveals the texture of the wood, and makes it

appear light and scintillating through the final coats of finish. English mahogany is nearly always finished in this way, and most of the best cabinet makers in America now use the potash in the earlier stages of the work.

The very best quality of shellac must be used for finishing old mahogany. If too thick it may be diluted with best grain alcohol. The shellac must be applied with a flat varnish brush, and smoothly and evenly laid on to the surface; this must be done rapidly as the alcohol evaporates quickly. Rub down with sand-paper No. 00, after the shellac is dry, rubbing in an opposite direction to the grain, then apply another coat of shellac and rub again with sand-paper, repeating this process, three, four, or even up to seven times, until the surface presents a smooth, even, satin finish.

The last coat to be applied is a finish of pumice



The wax is applied with a short-bristled brush. Rub slowly with the grain of the wood. In polishing, use slow, circular movements

stone and crude oil; this must be rubbed well into the furniture, with quick, light, circular movements; fine old handkerchiefs may be laid over the cotton pad, and after repeated rubbings a delicate, glossy surface will reward the worker. Several rubbings of pumice stone and oil should be applied, allowing the surface to harden between each rubbing.

The final finish is given by using a good wax. There are several reliable makes of floor wax on the market, and any of these that have been found satisfactory can be used. The wax is applied with a heavy brush, and it is necessary to rub hard, producing a friction that will heat the wax sufficiently to make it run, giving a smooth and elastic surface. The brush in the illustration is round and has been in daily use for over thirty years, but the modern wax finishers are usually square. The round ones are nicer to work with if they can be procured.

It would hardly repay any one to spend a long time in finishing one piece of furniture, but when several have to be finished and each one can take its turn and wait for the various coats to be applied, it is well worth while. Good results can be obtained by following these directions and many dollars can be saved by doing the work at home. It seems almost ridiculous to apply so many coats and rub them off, but all furniture men who have gained a reputation for finishing old mahogany emphatically declare that it is essential to good work. A certain finisher of my acquaintance frequently gives furniture eight coats before he is satisfied, and the result is that old mahogany is sent to him to be refinished from all parts of the country because his work is so excellent.

When so called "old mahogany" is scraped down to the bare wood it will frequently be found that it is really walnut, poplar, or hickory, but these woods can be finished so that only an expert can detect that they are not genuine mahogany. The filler must be a "mahogany filler" to give the right tone to the wood. Birch is a soft wood much used nowadays; the grain is very similar to that of mahogany, and when it is finished it bears a very close resemblance to the more expensive wood. Only those familiar with all kinds of woods can detect the difference.

[NOTE—Two articles on refinishing old furniture of mahogany and other woods were published on page vi of the May, 1907, issue of COUNTRY LIFE IN AMERICA.—THE EDITORS.]



Cream and light green blend with foliage better than terra cotta and dull gray



A stucco house with slate roof, the walls tinted in two tones

## PAINTING A CONCRETE HOUSE

By A. S. ATKINSON

Photographs by H. H. SAYLOR and J. C. BRAGDON

**C**EMENT, concrete, and stucco surfaces should not be painted until six months after erection, and generally it is better to wait for a full year, unless the surface has been treated with a re-agent beforehand. All stucco and composition surfaces carry lime and alkalis, which will not stand ordinary linseed oil paints and coatings. If the surface is left untouched for six months to a year the carbonic acid gas in the air will unite with the free alkali in the cement and turn it into the neutral carbonate of lime. This process is aided and helped by the exposure to the weather, and consequently the weathering process furnishes in time a proper surface for painting.

But the man who builds a handsome stucco house with the idea of making its color harmonize with the surrounding landscape is too impatient to wait half a year to see his ambition realized, hence the recent experiments by paint chemists for the treatment of cement surfaces. We do not now have to wait for natural agencies to weather the stucco surfaces, but the process of treatment that precedes painting is all-important.

All non-drying and lubricating oils are destructive to cement, and if it is soaked with them they will cause the cement to disintegrate and crumble; but linseed oil unites with the oxygen of the air and forms a tough, leathery surface over the cement. When this is dried and hardened it absolutely protects the cement surface and also makes it waterproof. But the great difficulty is to get the paint to stick. It will not stay on green cement, but peels off in a few weeks or months. So we must neutralize the alkalis in the cement by some artificial method, if the owner is not willing to wait for the ordinary weathering process.

Even when cement surfaces are to be painted without waiting for weathering, the work should not be undertaken within sixty days from the time of applying the stucco. Concrete block houses can be treated earlier because the blocks are made and set sometime before they are put in the wall. Sixty days are usually required for concrete to set, and then the surface can be treated with reagents in preparation for painting. The reagents employed are acids, and it should be carefully noted that these acids must be thoroughly washed off before the paint is applied. After washing off thoroughly with water the surface must be allowed to dry, and then it is ready for the paint.

A reagent formerly used for treating cement surfaces was a 7 to 8 per cent. solution of muriatic

acid or hydrochloric acid, but this has a tendency to neutralize the lime in the cement too quickly, and forms calcium chloride which is easily soluble in water and hence will wash off with the spraying, leaving the surface more or less pitted. Moreover, this reagent has a peculiar tendency to gather and absorb moisture, and if any of it is left on the surface after the spraying with water it will keep the paint damp underneath. This would form a film and cause blistering and disintegration. Any excess of this acid would injure both the paint and the cement.

In place of muriatic acid, dilute sulphuric acid as a wash is much better, but any excess of the acid left on the surface will cause harm. The sulphuric acid changes the caustic lime of the cement to calcium sulphate or gypsum, which is insoluble in water. This has no effect on the paint coating.

A similar effect is obtained by using a solution of zinc sulphate and water mixed in about equal parts by weight. When properly mixed, the solution is applied to the cement surface with an ordinary bristle brush. The advantage of this wash is that no after washing with water is necessary. This mixture produces a chemical change in the caustic lime that changes it to calcium sulphate or gypsum. After drying for sixty to seventy hours a certain amount of zinc oxide will be found in the pores of the cement and upon the surface. This material is not harmful either to the cement surface or to the paint. In fact, it is one of the most important of the white paint pigments, and becomes incorporated with the paint in the brushing. The paint should be worked in thoroughly on a cement surface thus treated, for the better the two are mixed together the longer will the paint last on the surface. This process of treatment is very economical and produces lasting and satisfactory results.

Another method of treatment that has been tried by some paint experts is to dissolve ten pounds of carbonate of ammonia in forty-five gallons of water, and when dissolved to apply the solution to the surface with a brush. This reagent liberates ammonia gas and leaves a smooth surface behind. The effect is to form insoluble calcium carbonate on the surface which is neither harmful to the paint nor the concrete. But to make this method perfectly satisfactory in all cases two treatments should be made of a weak solution, and where lime mortar has been used in the concrete three or more applications are often necessary to neutralize the lime.

A still further process that works excellent results, but which is rather too expensive except for very large surfaces where a painting machine can be used, is to spray the cement surface with carbonated water. This is simply so-called soda water, and a tank used for charging soda-water fountains could be attached to a paint atomizer. This impregnates the surface with carbonic acid gas and changes the caustic lime into harmless calcium carbonate or carbonate of lime.

All of these various treatments have the same end in view, and it matters little which is used provided the caustic lime is neutralized and rendered harmless; but where strong acids are used the surface must be thoroughly washed off afterward before the paint is put on. This can usually be done by turning the hose on, where there is sufficient pressure to force the water to the top of the building. Where there is no water pressure and the washing must be done by hand, the cost is considerable.

Of all the methods employed probably that of using zinc sulphate and water, mixed in equal parts by weight, is the least expensive and the most satisfactory. This prepares the surface for the paint within seventy-two hours, and the zinc oxide left on the surface will readily incorporate with the paint.

If a surface of cement or stucco is thus properly treated to neutralize the alkalis in the cement, almost any good linseed oil paint will adhere to the walls. Paint manufacturers have, however, sought to develop special paints for this work, and they are as a result more satisfactory than others. Every year improvements are being made in cement-surface paints.

The first coat of paint should be somewhat more oily than usual. The concrete surface has considerable absorbent capacity, and it is to counteract this that an oily paint is used for the first coat. The absorbent qualities of machine-made concrete blocks are greater than in concrete that has been well tamped. The second and third coats can be applied in the usual way.

The application of the first coat is important also because of the tendency of some paints to discolor the cement. This is not important where a color darker than stone is used, but in a light color it is. Sometimes the surface is painted simply to waterproof and protect the cement, and no effort is made to change the stone-like effect of the blocks. In such cases

(Continued on page 64)



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New Victor Records are on sale at all dealers on the 28th of each month

## COUNTRY LIFE ABROAD

(Continued from page 52)

with a spring while traveling downward at great speed. The land is made perhaps a hundred feet lower down the incline. If one is fortunate in "standing" he continues forward at high speed to the "outrun" where he stops with a Christiania or Telemark turn.

Most of the Swiss resorts have their jumps, that at Adelboden being especially picturesque. In Norway, perhaps the jump at Holmenkollen is the most spectacular, while its situation among fir trees renders it very beautiful as well.

Only last summer a new addition to the famous jumps of the world was built half an hour's walk from Mürren in the Bernese Oberland surrounded by the wildest of Alpine scenery. It is known as the Egertenthal Jump and, being well above the trees and surrounded with grand snow-capped mountains against a deep blue sky, the surroundings from the spectator's standpoint can hardly be equaled. The course is straightaway without turns and to the onlooker the progress of a man from Lilliputian size high in one direction to a rapidly flashing life size



Among Norwegians there are no more enthusiastic devotees of the skee than King Haakon and Queen Maud

figure and on to diminutive proportions far away in the valley below is very interesting and startling. To see a man make this wonderful descent of a thousand feet partly on the snow and partly in air all in a few seconds is something never to be forgotten, nor will the wonderful amphitheatre before the stately Egerfurke soon fade from memory.

**B**OURNEMOUTH, that forest city on the English Channel, is one of England's most remarkable vacation resorts both in summer and winter. Always spoken of as a delightful spot because of its equable climate and evergreen forests, it long enjoyed but little popularity because of inadequate transportation facilities. In 1870, when the railroad was put through, there were a trifle less than 6,000 inhabitants, but since that time growth has been rapid until to-day the population is somewhat over 75,000. Enterprise is developing the place as a recreation resort, and providing every hotel comfort and facility for outdoor sport has done much to popularize it, but its natural beauty and climatic conditions have done still more. Sheltered on the west by the Purbeck Hills and on the east by the Isle of Wight, and situated well south in England where the weather averages warm and equable, this evergreen forest city with its dry soil and sandy shore is one of the most delightful of the British coast resorts. The average temperature from November to March ranges from 40° to 46° Fahrenheit.

**T**HE East of Scotland College of Agriculture has recently issued an interesting report of some pasture experiments to show what can be done to improve old impoverished grass land by

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the use of artificial fertilizers. Superphosphate, sulphate of potash, and lime were used, and by comparison of the gain in weight made by sheep on the fertilized and unfertilized sections of the field it was seen that there was a very creditable return for the money and labor expended. The treated area carried half as many sheep again, and the increase in weight per head per week was higher, showing that the quality as well as the quantity of herbage was benefited by the dressings.

**A** STATE forest in Germany points the way very clearly in respect to the best use to make of swamps in forests. Large sums may be spent in drainage, yet as a rule the soil will not produce timber of any quality because the soil is shallow. Ordinary drains benefit only the surface soil. Even with three-foot drains there may be only a foot and a half of soil above water level, so that while trees may grow well at the start they will not continue to do so after their roots reach the wet subsoil.

Ordinarily a better use for such land is for pasturage. Drainage by open trenches which carry the water a foot and a half below the surface is desirable. The land should be leveled and old tree roots removed after which the treatment is the same as for forming meadow pasture. Humus and mineral salts are usually in plenty but potash manure such as kainite must be added. If this is done in autumn so that the soil is ready for sowing suitable grasses in the spring, it will prove surprisingly fertile. As tried in the German state forests land utilized in this manner averages to yield profits amounting to about 3 per cent. of the working expenses.



A thrilling skee jump at the end of a race at Adelboden

**I**N FAR-AWAY China, where gasoline costs thirty cents a gallon, the automobile is making progress but slowly, but as modern ideas are rapidly becoming more prevalent, as indicated by the recent demands for a progressive government, this condition is likely to change. The chief difficulty is the narrowness of village streets and the small number of good country roads. In and about the large cities, however, the streets are often excellent.

At Tientsin there are twelve cars, three being owned by Chinamen. The streets of the foreign section are broad, level and excellently macadamized, while a splendid boulevard encircles the native city. Peking also has a dozen cars which are used on her wide, well-kept streets.

Tsingtau has about sixty miles of splendid roads running along the ocean front and into the mountains nearby, affording one of the finest spots in the world for automobiling. In spite of this fact, there are but six automobiles.

The roads in the vicinity of Nanking, China, are in exceptionally good condition for automobiling and there are many pleasant drives. But there are only two automobiles owned by residents, these being the property of Chinese.

**B**EFORE summer Berlin will be a seaport. Official statements are to the effect that the ship canal from Stettin to Berlin will be ready for traffic by that time. This will enable the German capital to receive cargoes direct from all ports of the world. The canal is eighty-two miles in length and will permit the passage of all freighters of ordinary size.



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## FROM FRANCE TO AMERICA'S SUNSET LAND

(Continued from page 30)

In the red desert were gray rocks like dragons' teeth; but by and by there was a paler desert of shriveling yellow sand, veined with the green of alfalfa; and the golden sand in deep river beds rippled as if desert winds played over tiny wavelets of water. The sky was no longer of a hard blue, but had softened to the wonderful violet that broods pensively over the golden secrets of lonely desert spaces. A narrow purple streak across the gold, that meant a distant river, and a solitary Indian riding beside it on a slender horse, against a floating background of dim blue hills, made a picture I shall not forget; and each moment my old point of view about America changed. I began to see that one need not go to Africa, to Spain and Italy, for history and romance, and contrasting colors, or even to find things very old and strange.

For instance, nowhere in the world could one find things more ancient and wonderful than I found by hurling myself out of the "Limited" at Albuquerque, New Mexico, and taking a short détour. There was much that was well worth seeing at Albuquerque itself; the charming, picturesque hotel, built like an old Spanish house, and the wonderful Indian museum, with its rare rugs and pottery, and the astounding opals and turquoises, its magnificent Indian arms and costumes, and a thousand other treasures. But the great thing (and I did the great thing) is to go to Laguna. I went. I arrived on an azure night of stars and I had adventures; but they were splendid adventures. In the morning the sun and I got up together (unless I was a little ahead of him), and a carriage driven by an Indian waited to take me across eighteen miles of desert to famous Acoma. Going, we passed the old Indian town of Laguna, piled together in a rocky mound like some wild old hill town in Italy, built for defense against Saracens. And the huddled houses themselves were exactly like houses of Arab towns. (What is the relationship between these Pueblo Indians and the Eastern peoples? They—the Indians—tell ancestral legends about a sunken country between continents, the real Atlantis, and their own escape.)

Not the Libyan desert itself is more beautiful or more mysterious than this golden desert of monumental mesas through which my white covered carriage took me, between Laguna and Acoma. Some of the rocky mesas towering up out of the sea of golden sand were like dark forts of fighting giants; and the "enchanted mesa" with its strange legends, was best of all—until Acoma itself.

No one, who didn't know, would have dreamed there was an Indian town, more ancient than history, on top of that round, boxlike mountain of rock; but I found it, after being guided up the old Indian trail, a secret way, far more exciting than the ordinarily used road to the hidden top. It had its excitements, that Indian trail, with its spider-web bridges across chasms; but it alone would have been worth crossing the ocean for. And then the luncheon on top, in an Indian house, with two Indian chiefs, to say nothing of my kind and chivalrous guide, one of the most interesting men, surely, in that great Western country. But it would be of no use for me to tell his name. It is not his profession to guide wandering ladies. He does it only out of the kindness of his heart, if you come to him with just the right letter of introduction!

I thought that, after Acoma, everything else must be an anti-climax; but that was because, in my abyssal ignorance, I could form no conception of the Petrified Forests, and of the Grand Cañon—and of California.

Through high, fragrant pine forest country, ringed with far mountains, I arrived at the Grand Cañon; and no sooner had I walked up the small hill from the railway station (which is like a screen for the surpassing grandeur beyond) than I knew I was face to face with one of the world's greatest marvels. Standing in the terrace of one of the most perfect hotels ever built, I seemed to be looking down, down, through a golden glow to the red heart of the earth. Down there were castles and cities; and even the mountains, high though they were, lay in their rose and purple ranges far beneath the golden levels on which I stood. All the moulds from which the noblest castles of history or fairy



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legend were fashioned, are still down there in the mystic depths of the Grand Cañon of Arizona. What a study for architects! And if Wagner were never there in body, he must have gone in his dreams, or he could not have written the music of the gods, as he did. There in the Grand Cañon Walhall towers up; there among the ruddy rocks glows the fire which rings Brunhilde round till Siegfried comes.

I feared that, after these wonders, California might be an anti-climax; which proves again that I had not realized with what generous bounty the West gives her glory. Even the Grand Cañon could not spoil me for California. The Yosemite strikes the same godlike note in the music of world-grandeur; and Monterey, and Shasta, and Lake Tahoe, and San Francisco — but it is useless to go on. The only thing left to say is, that after seeing them, Europe does not quite satisfy me even with its best beauty spots. I want to go back!

## PAINTING A CONCRETE HOUSE

(Continued from page 56)

great care must be used not to stain or discolor the surface. The special waterproofing paints made for this work are undoubtedly better than any others.

The painting of a concrete surface requires somewhat more attention to special details than the same work on wood. The concrete surface lacks the uniform character of wood, and the filling of the voids and suction creates a good deal of extra work. Consequently it is estimated by master painters that the labor required is fully one third more than the application of lead and oil on exterior wood surfaces. But on the other hand there is a saving in material. On the first coat only about one half as much paint is used as for a wooden surface, and about two thirds as much for the second coat, while the third coat is the same in both cases.

The estimated cost of painting concrete surfaces that have been properly treated beforehand ranges from twenty-five to forty cents a square yard for two coats. On concrete floors the covering of a cement paint runs from 150 to 200 square feet per gallon for one coat, but here much depends upon the spreading quality of the paint and the skill of the workman. In painting concrete floors almost the same preparation of surface is necessary as described for wall surfaces. But floors are liable to accumulate grease and dirt if not painted immediately after washing with the reagent. Such foreign substances make painting difficult and unsatisfactory, and they must be carefully removed before the paint is applied. Concrete floors that have stood for a long time so that the alkalis have been neutralized by the weather have been painted with disastrous results, because no proper cleaning was attempted to remove grease and oil.

## EVERY PLACE NEEDS A SERVICE YARD

(Continued from page 43)

rectangular yard is very little used and makes a space for the collection of dust and leaves. Place the entrance at the corner, if possible, as it will give a freer movement of vehicles in the yard than if placed at the side or on the end. The second choice is the end. If the space is made too cramped, it will be hard to turn a wagon around, or back it out. Corner or end entrances partially obviate this, and the drive may be used in the backing and turning operations, if necessary. The corner entrance allows for a greater breadth of area for planting between the service and approach drives, when they are necessarily near together owing to the contracted size of the grounds, or to save a tree, or avoid a ledge.

If you want to use shrubs to screen the service yard, allow at least twenty-five feet for planting between the service drive and the carriage court or the approach drive.

If possible, the surface drainage of the yard should be outward, so as to carry the water away from the house. It may be necessary to drain to a catch basin in the interior of the yard. If so, place the basin so that the traffic will avoid it.

If you cannot afford a wall or shrubs, use



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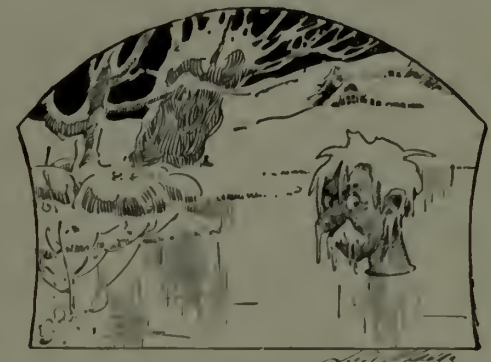
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lattice, but make it harmonize with the house. It must be painted every few years, and the vines will then be damaged. You can avoid both these things if the house and site are informal, by making a fence of spruce poles with the bark left on. Set them closely together, and have red cedar or locust posts. If you use chestnut, tar or char the ends to prevent decay.

Garbage cans, unless often thoroughly cleaned, are a nuisance, especially if made of wood. There are patent garbage receptacles on the market which remove many of the objections. The best kinds are those that are set into the ground, with the covers flush with the surface of the yard. No stray cats or dogs can tip over the receptacle, there is less chance of scattering the refuse about the yard, and the odors are nearly done away with. Also, the garbage will not freeze and have to be dug out.

The plans offered on page 43 show typical problems that are often presented to me in my practice. The service yard is generally used on plots of one acre or more. Small town lots should be accessible without a driveway except for a garage in the rear. Then the service portion becomes easily attached to the driveway. On small house lots it is well to screen the service portion, thus removing the objectionable features from the rest of the ground.

These are some of the things that a landscape architect is for.

### THE NATURE CLUB

(Continued from page 48)

remaining cup. Can you get three or four at different levels in the same tree or bush? Old poplars, willows, and lindens, are "pollarded" to produce an excess of small twigs, year after year. Birds nest freely in the pollarded stubs.

Tying branches together to form nesting-places.

Dense undergrowth is often made of stems too weak to support a nest. Tying these unbranched shoots together, thus crossing their tops, provides suitable and very attractive nesting-places for small birds that build near the ground. It is a make-shift, merely, until the young growth branches, and can be pruned to whorls of twigs. But forty-seven out of fifty of the tied branches were built on the year that the plan was tried at Seebach. That is a significant fact. The first year or two in your bird shelter will give you a chance to try out this new method. Some of the most charming of birds are the small species that will choose these sites.



Small birds build in the cup formed by tying small bushes together

Protection against cats. All around the bird shelter a hedge of rose bushes, three or four plants deep, forms the best cat guard. The ground birds and those that nest low in bushes are in constant danger while their young are in the nests. It is a chore to get through a good rose hedge, and cats don't like to get scratched. But if hedging your bird thicket with wild roses or rugosas sounds too much like work and expense, don't let me hint that it is a necessity. Use other means of discouraging stray cats from coming upon your premises. Drastic measures are justifiable. When you get a dozen kinds of birds as neighbors, building this very spring in nest cups you carved out for them in bushes and in trees, nobody needs to urge you to protect them in every possible way. They are friends, here on your invitation, instead of farther north, possibly in safer situations. Your enjoyment of their presence expresses itself in taking steps for their safety.

Try this spring to get the bird shelter started, with the minimum of trouble and without any outlay of money. Keep close track of the results of your pruning, especially. Faithfully supply water suitable for drinking and bathing. Never



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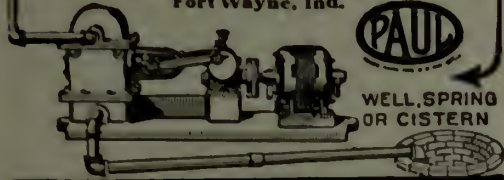
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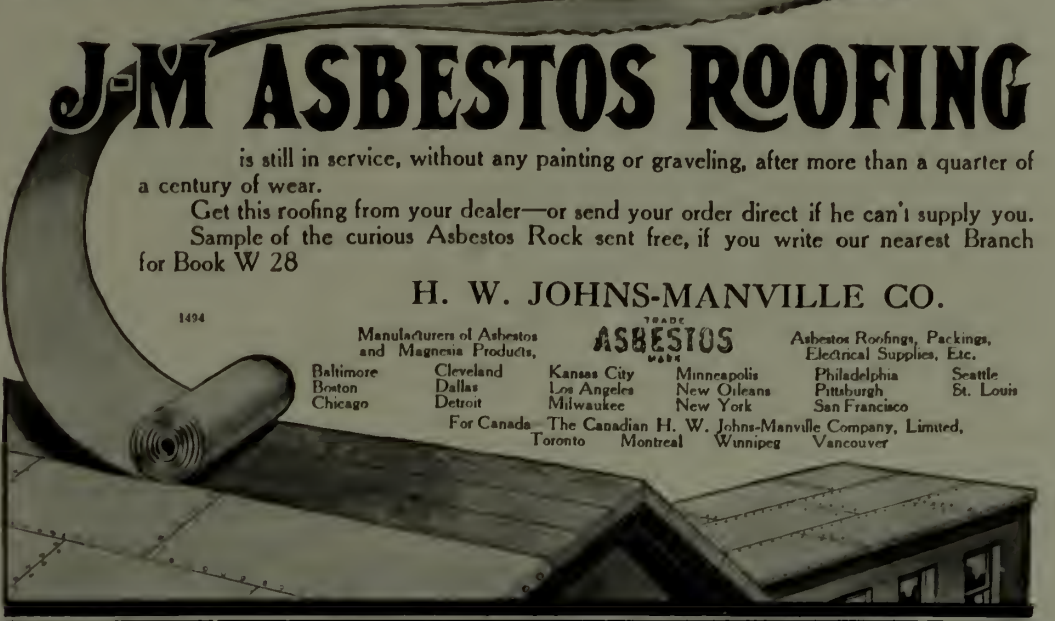
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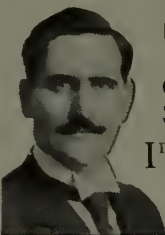
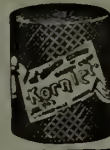
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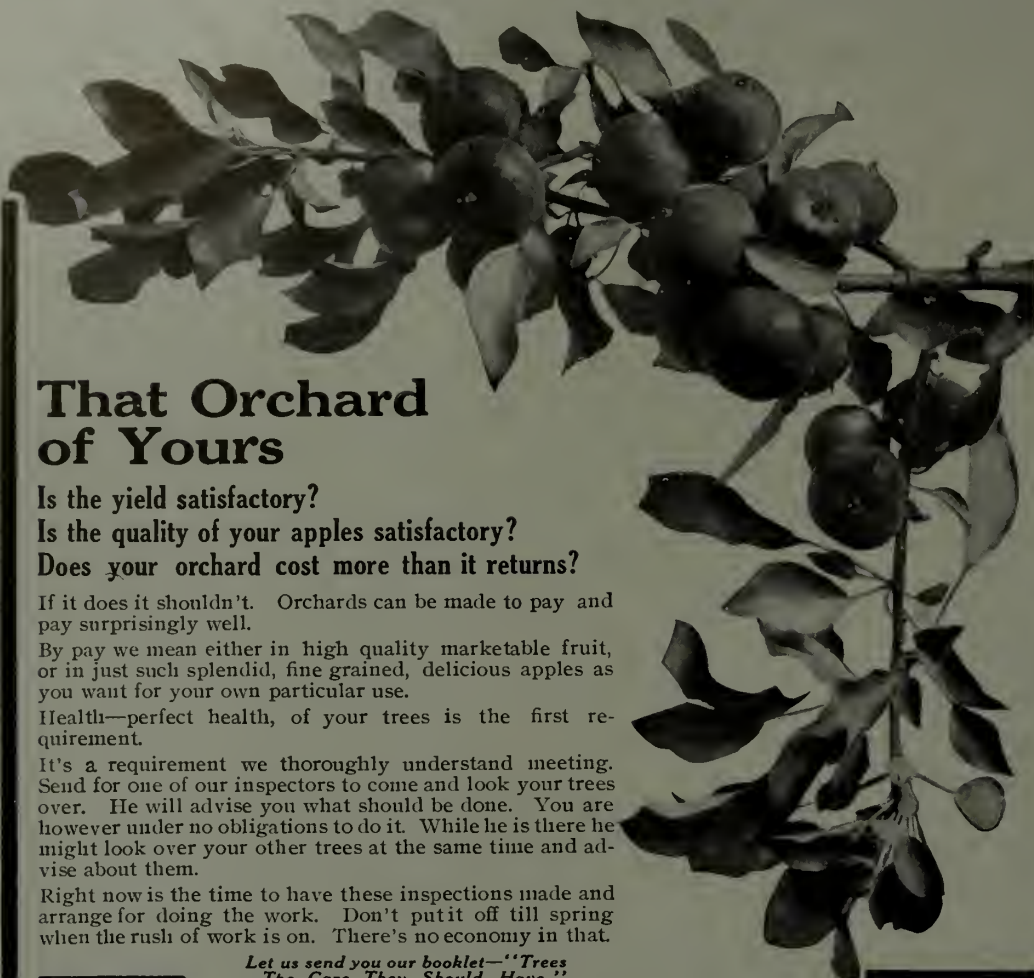
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Right now is the time to have these inspections made and arrange for doing the work. Don't put it off till spring when the rush of work is on. There's no economy in that.

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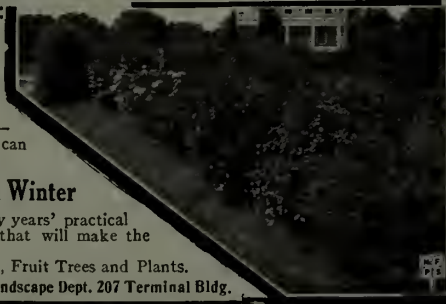
They give character to home grounds because they are really specimen shrubs—grown well apart so that each has plenty of room to spread its roots and branches—to make a really fine development. Those in this picture illustrate the idea. See how they set off the house and the whole grounds—on the other hand, think how commonplace the whole planting would be, if made up of ordinary specimens of ordinary varieties.

We take pains to grow the unusual things, as well as the standard ones—and to grow them all uncommonly well. From our great collection you can obtain varieties that will do best in your particular place. Some will

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mind feeding unless you think food is necessary to advertise your new enterprise while the migrating birds are coming by. The actual settlers will be sure to look after the feeding problem when spring comes.

### ANOTHER ROBIN CENSUS

LAST March we asked our readers to send us word when and where they saw the first robin. The responses were most generous. We wish to make an earlier call for reports this year. Will you keep a sharp outlook for the first robin, and report by postal card to the Director?

The census of 1911 will be reported next month.

### A MUMMY KING OF THE GROVE

PERHAPS the most interesting thing in nature in one of Missouri's shady groves is the king you see in this photograph. I shall tell you something of this wonderful man.

Not unlike the old mummies of Egypt familiar to all school children, this mummy king of the grove has that same solemn, steadfast look. But here in this castle, he rules over his wooden land. There is nothing to disturb him save possibly the neighboring owls that live in castles far more magnificent than his own. A peculiar characteristic of this king, until a year



Having grown an ear the mummy king of the woods listens intently to all the secrets of the world which rustles and scampers around him

or two ago, was that he seemed not to have an organ of hearing. But now nature, with her forces at work has developed what seems to passersby to be an ear. In fact, some have fancied that this freak of nature receives wireless messages from others of his race who, no doubt, live in far off lands.

But you can see other things in the photograph that I need not mention. So I shall say something of the tree in which the mummy king lives. Nature has decreed that his home, an elm tree, must soon fall victim to the evil of disease. The tree is little more than a shell. The heart has gone. The top has fallen. Since there are so many knots on the tree, one knows that there has been a great struggle for existence. On one of these large knots which looks very much like a white, hard shield has grown the face that you see. Wonderful indeed this mummy king seems to me! What do you think of it?

W. L. MAGRUDER.

### THE AMATEUR PHOTOGRAPHER

(Continued from page 47)

difficult to make any definite suggestions. With a lens working at  $f/5.6$  or  $f/6$  an average subject rather flatly lighted from a window, to one side of which the camera is placed, will require one second on a rapid plate, while those less well lighted or where dark clothing or





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From Your Own Garden  
Until After Snow Flies

Just think of supplying your table from June to November with strawberries from your own garden! This any gardener—amateur or professional—can do with our wonderful everbearing variety "Americus." It bears all winter in the South. In the North, it bears from August to November the first year, and from June to November the second year. They are enormously productive, having borne for us in Oswego County, New York, at the rate of 10,000 quarts per acre!

### I KNOW OF NOTHING SO PROFITABLE TO GROW

We cannot supply the demand at 25 cents a quart wholesale—a price at which one acre would net over \$2,000 per acre! Anybody can grow this hardy variety, as they require no more skill than ordinary berries. Why don't you set out some of our "Americus" this spring and next fall and the year following have fine berries for your table and to sell when prices are highest?

Prices of strong, well rooted plants, \$2.50 per dozen; \$20. per 100; postpaid. Order before the supply is exhausted. You should have our book, "Farmer on the Strawberry." Price 50 cents or free with orders for \$10. worth of plants.

We have 12 varieties of everbearing strawberries and all kinds of other Berry Plants, Grapes, Currants, Asparagus, Roses, Shrubs, Fruit Trees, Seed Potatoes, etc.

Write for beautifully illustrated free catalog. Do it now.

L. J. FARMER, "The Strawberry Man," Box 280, Pulaski, N. Y.



# Let Wagner Make Your Grounds Beautiful

## FEBRUARY

*is the month for landscape plans*

**T**HE planning of walks, drives, etc., the picturesque disposition of trees and shrubs; the artistic introduction of flower-color; all these, in the making of your place whether large or small, have need of well considered treatment.

Our catalog, "Plants and Plans for Beautiful Surroundings," fully covers this timely subject, showing large and small residence-properties and public grounds transformed by Wagner skill. Sent on request.

Our experience as extensive growers and the resources of the great Wagner Nurseries give us special advantages in supplying trees, shrubs and plants, at first-hand prices.

We can be of service to you, and we shall be glad to explain our methods of work. A small place receives the same careful study as the country estate.

We will submit designs, complete planting plans and furnish estimates on landscape work no matter where located. Write today for Wagner Book and let us tell you more about Wagner's Landscape Service.

**WAGNER PARK NURSERIES**  
Florists—Nurserymen—Landscape Gardeners  
Box No. 680 - SIDNEY, OHIO

furniture is included will require from two to five seconds.

And now something about the camera and lens and their use. Folding cameras which permit of focusing on a ground glass are a distinct advantage, yet excellent results can be had with film cameras and supplementary portrait lenses which are focused upon special accompanying scales. An all-around anastigmat of rather long focus for the plate it covers is perhaps the most desirable lens to choose. Use this as near wide open as possible, when a certain softness of diffusion while the subject is fully in focus is obtained about the same as with a special expensive portrait lens of much larger size. The smaller the stop the less atmosphere, and roundness of the figure; also the longer the exposure and the less spontaneous the pose.

Development is an important factor. Exposure is rarely too long. Often it is too short and under exposure and consequent contrast are the results to counteract. A soft but clear working developer which brings out detail before building up density suggests itself. Slow development in a weak solution of an agent which can be controlled, such as pyro, is also suitable. In either case it is well to keep the temperature as high as 65 degrees and even 70 degrees will do no harm. Rodinal, one to forty, in the tank seems to combine all the desirable qualities.

Retouching is best avoided by the average amateur, and with careful focusing of a suitable lens and printing on the right paper it is not needed. Rough paper for large negatives and a medium rough for smaller ones are preferable.

### SEPIA GASLIGHT PRINTS

**J**UST now sepia and brown tones are much in favor and for many landscapes, especially summer and autumn scenes, as well as portraits, these tones do much to beautify the effect of the prints. Snow scenes and marines, however, are best in the original black and white. Sepia tones are easily obtainable on most gaslight papers, now so popular, by a simple method of re-development. First a black and white print must be made in the usual way, taking care that it is of a bluish black tone rather than of a greenish or olive tendency. Too much bromide must, therefore, be avoided. Prints for re-development are best made a shade darker than for black and white, so that a vigorous developer with just enough bromide to keep the whites clear is indicated. Correct exposure is essential in order that development may be carried to the stopping-point, thus ensuring a full reduction of silver in the print. Avoid fogging the whites by working under an orange light. Fix the print fifteen minutes in the usual acid-hypo bath and then wash for one hour in running water. The fixing-bath must be fresh or else blistering or extreme softening of the print may result in the subsequent solutions. The print must now be bleached by immersion in the following:

#### BLEACHING-SOLUTION

Water . . . . .	32 ounces
Potassium ferricyanide . . . . .	¼ ounce
Potassium bromide . . . . .	¼ ounce
Aqua ammonia . . . . .	30 to 40 drops

Ammonia is used to clear the whites the same as bromide in a developer for paper, and the quantities may be varied as needed. The action of this solution should continue until all trace of black has disappeared from the deepest shadows and they have turned to a light brown.

Then remove the print, rinse thoroughly in fresh water, and immerse in the following:

#### RE-DEVELOPER

Water . . . . .	32 ounces
Sodium sulphide . . . . .	½ ounce

In this solution the faint image quickly changes to a warm brown or sepia, regaining also its former strength and brilliancy. A final washing of half an hour in running water completes the process, and the tones thus obtained are considered permanent.

Blistering is the only trouble likely to occur and this need not be feared if instructions are followed carefully. The difficulty is almost invariably due to the use of exhausted fixing-bath, too strong re-developer or too long immersion in the latter. The remedies are, therefore, obvious.

## Peace—The Grandest of All Gladioli— You Want It in Your Garden This Year

It is a white, absolutely unapproached; a magnificent flower, wonderful in its purity, size and vigor. It will be a delight to you every hour of every day it is in bloom. Without it your garden will be incomplete. It is the best



variety Mr. Groff, the greatest hybridizer of Gladioli in the world, has introduced. I specialize in Groff's Hybrid seedlings more than any other grower.

### There is a reason why Cowee's Gladioli Bulbs are best

It is because I grow nothing but Gladioli, having over 15,000 varieties. I live with them, study them, love them. Every bulb I send out is large, sound, healthy. No matter what your soil, these bulbs will bloom for you. Let me send you

### A Little Book Free: "The Uses of the Modern Gladiolus"

It will tell you just how to grow this royal flower and show you many uses for it, outdoors and in. It describes this wonderful new variety, Peace, and others of the best named varieties in the world. Many are reproduced in their exquisite natural tints by the wonderful new French color process. Write for a copy today.

**Arthur Cowee, Meadowvale Farms**  
Box 85, Berlin, N. Y.

# Thorburn's Seeds

## AFRICAN ORANGE DAISY

No Garden Should Be Without It

A rare and extremely showy annual from Namaqualand, South Africa, of very easy culture. The plants, of neat branchy habit, grow about 12 to 15 inches high and are exceedingly profuse in flowering. Its Marguerite-like blossoms 2½ to 2¾ inches in diameter under proper cultivation, show a unique glossy rich orange-gold, with dark-colored disc surrounded by a black zone. It produces its pretty flowers very early after being planted out in the open ground in sunny situations and will continue to flower during the summer. Plant in soil not over rich.



We will mail a packet of this superb annual and a copy of our beautifully illustrated catalogue, 144 large pages — the best seed book published in America — for only 10c., stamps or coin. Write to-day.

CATALOGUE NOW READY  
**J. M. THORBURN & CO.**

(Dept. C.)  
33 Barclay Street and 38 Park Place, New York

## Splendid Roots of Fairfax Roses Assure Their Fine Blooming



Forcing a rose to throw out heavy canes and bear lots of leaves doesn't make it a durable rose. To succeed, a rose plant must have thrifty roots. My Fairfax Roses do have magnificent roots, as the illustration shows.

### My Fairfax Roses Build Rose Gardens That Last

Great care marks every stage of their development. I specialize on roses grown on their own roots, from strong, vigorous cuttings. It takes an expert to so handle these cuttings that they will retain the vigor of the parent plant until established for themselves. Fairfax Roses get that expert care — the result is seen when you compare my plants with those grown from the weak little "one-eyed slips" used by some rosemen.

When you have rose plants with roots like these, you may be sure the top will come right, too, as the picture shows.

I have picked a location that is exactly right for growing roses of real character — not for the South alone, but for all parts of the North, East and West as well. My Fairfax Roses are making successful rose gardens in Mexico and in Oregon; in Maine and in the Sunny South. Different climates require different classes and varieties of roses, but the plants I have shipped to these different locations were all grown here under identical conditions. My lists of roses include all leading groups and classes in nearly 150 varieties—each of which I have proved by actual tests to be worthy a place in my Catalog.

### My Book "Fairfax Roses" Free If You Expect to Buy

It lists, describes and illustrates Roses accurately and fully; also includes complete descriptions of Dahlias, Chrysanthemums, rare Ferns, Bedding Plants, etc. Write me about your garden, and I'll send you a copy at once.

**W. R. GRAY, Box 16, Oakton, Virginia.**







HEISEY'S  GLASSWARE

is guaranteed when used under like conditions to last twice as long as ordinary glassware

HEISEY'S  GLASSWARE

allows you a choice of many beautiful designs in boudoir sets, punch sets, candelabra and vases, as well as table glass for every day use.

HEISEY'S



GLASSWARE

Despite its attractiveness,

HEISEY'S  GLASSWARE

is the lowest priced glassware made, quality and durability considered.

Each piece is wrapped separately in tissue paper bearing the trade-mark  and guarantee.

Write for our book showing some choice designs.

**A. H. HEISEY & CO.,**  
Dept. 51 Newark, Ohio







# Let's Have A Little Talk About Trees For Your Home Grounds



You would like to have trees and shrubs growing about your home, of course. You know it adds pleasure and comfort and value to the premises. But you know plant growth is slow and you do not want to wait years and years before having trees large enough to cast a shadow.

Perhaps you do not know that you can have a leafy landscape any other way. You may have read some of our advertisements about "Landscapes Without Waiting" but they did not induce you to investigate. It's mighty hard to write an advertisement that will do that, especially when the idea is more or less new. But we understand the business of growing trees better than writing ads and we know that we can make your property take on the appearance *at once* of a place that has been in process of development for many years.

## The How and Why of Having "Landscapes Without Waiting"

We do not claim to do anything contrary to nature — to make a twenty-year-old tree in a season, or anything of that sort. That would be folly, and we want to discuss this matter with you **seriously**. We do claim to have a great many fine trees and shrubs — splendid specimens — that we have been looking after in our nurseries for years. These trees can be removed to your premises, set out properly there, and they will go right ahead growing about your home.

We would like to meet you and talk with you, then take you to our nurseries and show you what we have there. If you are coming to Chicago, we hope you'll arrange to let us do this. If it is not convenient for you to come to see us, let our representative call on you when he happens to be in your locality. We also have a booklet that will explain. A copy will be sent you, free, if you live within 500 miles of Chicago and have home grounds for which you intend to buy trees, etc. Otherwise, the price is 50 cents. Write us today.

**Swain Nelson & Sons  
Company**  
750 Marquette Building  
Chicago Illinois



## NORTHERN CALIFORNIA

(Continued from page 40)

the wild oaks rise the orchards and the vineyards, the hop-fields and the grain lands that make the sunny slopes another Rhine country. Each valley has its individuality and its story of the past. Here is the Russian River Valley, the historic



Along the broad floor of the Yosemite Valley flows the tree-fringed Merced River

spot where the Russians (who once might have owned the coast) occupied their fort for thirty years. The only lasting remembrance of them, however, is the visit of the learned Dr. Escholtz whose execrably unbeautiful name has been thrust upon our glorious golden poppy, loading it with the scientific name of *escholtzia*.

Here in Sonoma, the curved "valley of the moon," was begun the last of the Spanish Missions. Here occurred the fantastic historic



Burney Falls is one of the many natural attractions of the region about Mt. Shasta

## Beautify Your Grounds

Roses, flowering plants and vines for sale, also 500,000 apple, pear, plum, peach, cherry, quince and shade trees. Green's roses, shrubs, vines and fruit trees are used to beautify many magnificent estates. Their symmetrical shapes, the delicious fruits they bear and excellent shade they afford, combine to make them the most desirable trees for the modest home or palatial country estate.

AGENTS' PRICES CUT IN TWO  
**Green's Trees**  
DIRECT TO YOU

**WE SELL DIRECT TO THE CONSUMER**

We have no agents or solicitors. We save you all middlemen's profits. You get absolutely the best trees money can buy at one-half what agents ask.

**SEND FOR GREEN'S FREE 1912 CATALOG.**



It tells you how to plant and care for your trees, and gives other valuable information. If you send now, at once, you will also get Green's Book, "Thirty Years With Fruits and Flowers."

Est. 33 years. Capital \$100,000.

**GREEN'S NURSERY CO.**  
Box 6, Rochester, N. Y.

## FERRY'S SEEDS

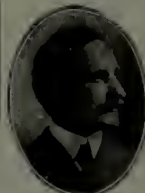
Good gardeners are those who raise good flowers and vegetables. Good flowers and vegetables come from good seeds. We produce good seeds — the inference is obvious. For sale everywhere.

**1912 SEED ANNUAL**

Free on Request

**D. M. FERRY & CO.**  
Detroit, Mich.

## Landscape Gardening



PROF. CRAIG

A course for Home-makers and Gardeners taught by Prof. Craig and Prof. Beal, of Cornell University.

Gardeners who understand up-to-date methods and practice are in demand for the best positions.

A knowledge of Landscape Gardening is indispensable to those who would have the pleasantest homes.

250 page catalogue free. Write today.  
**THE HOME CORRESPONDENCE SCHOOL**  
Dept. C, Springfield, Mass.

episode of the Bear Flag. It is in a Sonoma grove of sequoias that the Bohemian Club of San Francisco gives annually its renowned "Midsummer Jinks," a celebration which, despite its Puckish name, is a sort of woodland rite, with a spirit that recalls the severe beauty of the early Greek drama.

In Napa rises the noble St. Helena, made dear by its inviolable loveliness, and by the memory of Stevenson's star-lit night. Here too, we find the Petrified Forest, and the fuming Geysers forever at work in nature's secret catacombs.

Northward to the borders of Oregon run



# Ellwanger & Barry

**SUPERB** collections of Trees, Shrubs, Evergreens, Roses and Hardy Plants adapted to small gardens, private estates, public parks and cemeteries. Selected from the Most Complete Nursery Stock in America.

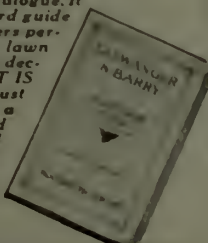
72 years of leadership, based on absolute integrity. A world-wide patronage. Every specimen is true to species, is well rooted and sturdily developed, and is packed and shipped with utmost care.

Both large and small orders receive close attention, and our reputation assures your satisfaction. Goods safely delivered in all parts of the world.

**ELLWANGER & BARRY**  
Mount Hope Nurseries  
Box 55 Rochester, N. Y.

### AN INVALUABLE FREE BOOK.

Write for a copy of our 72nd Annual Catalogue. It is a standard guide in all matters pertaining to lawn and garden decoration. IT IS FREE. Just mail us a postal, and we will send you a copy at once.



## This is the Flower Garden From Which Wyomissing Nurseries Had Their Start

I love this picture because it links together my dearest possessions—family, friends and flowers. In my book I call it "A quiet afternoon—the world within sheltered from the world without." Wyomissing Nurseries have grown from the flower garden which this picture shows as it was last summer.

It is good to feel, as I am about to enter on the New Year, that plants from Wyomissing Nurseries afford others something of the pleasure they give me. There's a kindly "kinship" between my big gardens at Wyomissing and the other gardens that my plants have gone to join. The letters I receive from my customer friends are a great pleasure to me—one woman struck the key when she wrote.

### "You do Things in a Different Way — as Though You Love Your Plants"

She had had experience with the plants of Wyomissing, and wrote from a conviction that mine is no common nursery—as, indeed it is not. It is a *business* that has developed from my love for growing things, and my desire to produce certain plants unusually well. From the modest group of plants and shrubs that I tended with loving interest in my spare moments, this business enterprise has grown, year by year, until I have come to know hundreds of people who love the royal group of hardy plants that I grow, and whose demands have literally forced me to increase my gardens again and again, and abandon other interests to give this particular "hobby" the proper care.

### I Cordially Invite You to Write For Farr's Book of Hardy Garden Plants—

if you have a hardy garden or plan to make one. I have prepared a complete new book describing the gems of Wyomissing Nurseries and my friends pronounce it one of the handiest they have ever seen. The whole book breathes the spirit of Wyomissing Nurseries and my very earnest wish is to be of help to you in establishing a garden that will be the pleasure to you that mine is to me. It tells of Irises, Peonies, Delphiniums, Phloxes, Oriental Poppies, Aquilegias, and a host of other grand Hardy Plants in a way that will make you love and want them, too. Don't merely say "Please send me your book" but tell me about your garden, what you have done, and what you want to do. If I can help you with your garden, I want to do it.

**BERTRAND H. FARR, Wyomissing Nurseries**  
613-C PENN STREET, READING, PENNA.

## CYCLONE LAWN FENCE BUILT FOR SERVICE

Designed for Beauty  
Simplicity and Strength generally go together. In Cyclone Lawn Fence

they are combined with beauty, making this the most practical, economical and most widely used lawn fence on the market. It is chosen by the most particular because of its design, and by the most careful buyers because it outlasts any other and is the cheapest fence made in the long run.

It is made of large, heavily-galvanized wire, rust proof, self-adjusting to uneven ground and easily put up on wood or iron posts.

We have grown and prospered until our factory is now the largest and best equipped of its kind in the country. Our progressive spirit always leads in designs and methods of construction. We stand behind every foot of fence we sell and guarantee it to satisfy you.

Get a Cyclone Fence to protect and beautify your premises. It stands for prosperity and progress. Our free books show all our designs and describe them fully. Write today.

We also manufacture a full line of Tubular Steel Farm Gates. Write for special Farm Gate Catalog.

**CYCLONE FENCE COMPANY,**  
Dept. 43  
WAUKEGAN, ILL.



## HARTSHORN SHADE ROLLERS

For 62 years this great invention has successfully withstood the attacks of all imitators, because of original merit and continuous improvement. Latest model requires no tacks. Wood or tin rollers. The inventor's signature on every roller. Look for it. Take none without it.

*Stewart Hartshorn*

## TURN YOUR GARDEN WORK TO PLAY

Start off the season with tools that banish the irksome toil which takes away your enthusiasm. Your garden should furnish both play and food. With one Iron Age tool you can sow the seed and cultivate the plants throughout the season. This illustration shows a tool, comprising four implements, all in one, and each individually perfect. As a Drill Seeder, it sows any thickness desired. As a Hill Seeder, it drops any width from 4 to 24 inches. And as both, it is under perfect control; the feed can be stopped at any instant. As a double or single Wheel Hoe Cultivator, it performs all work as only an Iron Age tool can. It pushes so easily that women get great pleasure from making garden with it.

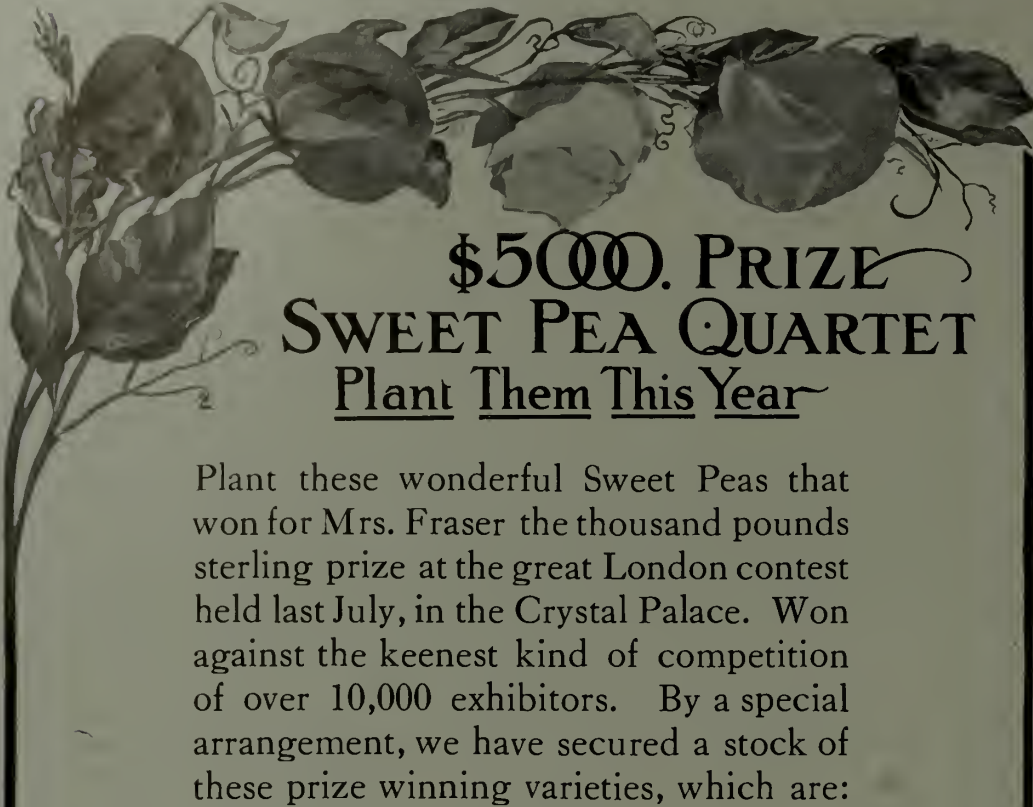
ASK YOUR DEALER FOR THE

**IRON AGE** Double and Single Wheel Hoe and Hill and Drill Seeder  
MODEL No. 6  
PRICE . . . \$12.00

Any complete change can be made in three minutes. This is only one of a complete line of Iron Age farm, garden and orchard tools. Write to-day for our set of booklets fully describing and illustrating Iron Age tools. A postal will bring them.

**BATEMAN M'F'G CO.,** Box 69G, Grenloch, N. J.





## \$5000. PRIZE SWEET PEA QUARTET Plant Them This Year

Plant these wonderful Sweet Peas that won for Mrs. Fraser the thousand pounds sterling prize at the great London contest held last July, in the Crystal Palace. Won against the keenest kind of competition of over 10,000 exhibitors. By a special arrangement, we have secured a stock of these prize winning varieties, which are:

**Paradise Carmine** — clear, lovely carmine, waved.

**Constance Oliver** — pink and cream waved.

**Arthur Unwin** — rose shaded with cream, waved.

**Tom Bolton** — dark maroon, waved.

As you see them illustrated here, they are much reduced in size.

Why don't you stir up some friendly competition with your neighbors this year with this quartet.

Here is our offer, which is backed up by Boddington's Seal of Quality — and you know what that means. Buy your seeds now and plant them early — the earlier, the better.

- 1 packet each four prize winners for..... \$ .35 postpaid
- 3 collections or twelve packets in all, for.... 1.00 postpaid

## Boddington's Seeds

ARTHUR T. BODDINGTON :: 338 West 14th Street :: NEW YORK

With each order we will send you

### Boddington's 1912 Garden Guide

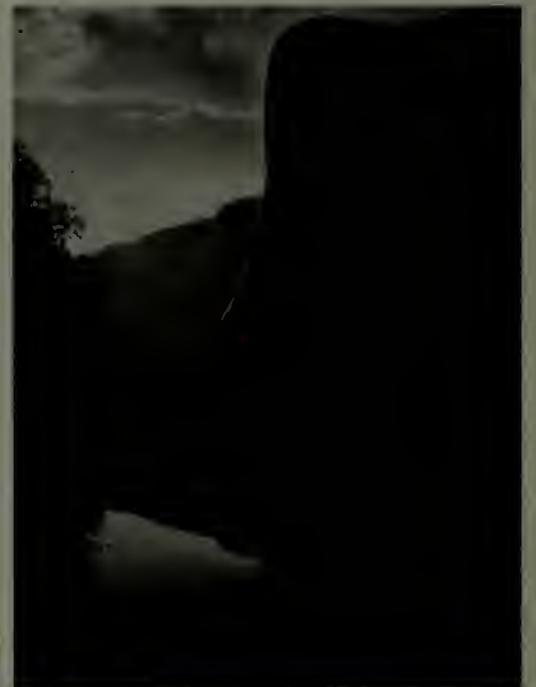
which contains an interesting description of the competition.

This Guide is a decided departure from the usual so-called "Seed Catalog." The cultural directions are written by successful gardeners who have the love of flowers in them — gardeners who know.

These "tell you how" directions are especially fine — no elaborate discouraging suggestions — just common sense advice, like your neighbor tells you over the tea table. If you want this Guide and not the Sweet Pea Quartet, we will gladly send it to you free, postpaid, just the same.

many repetitions of these mountain valleys. Up in the furthestmost corner of the state is Eureka — our Land's End; and lying just between Oregon and California are the marble caves that are said to rank with the sculptured Mammoth Cave and the pillared Fingal.

The western slope of the Sierras, in its highlands and its lowlands, offers also a diversified use and beauty. From almost any part of the great double valley may be seen the eastern mountain wall of California — four hundred miles long and over two miles high — the Sierra Nevadas — a range so ethereally folded in the luminous air of California that John Muir declares that it should be called "the Saw of Light" instead of "the Saw of Snow." From a distance the Sierras are merged into bands and scarves of radiant color. Warm rose and lilac glow the foothills, once the mining belt of the



El Capitan, by the light of a dying sun is a rare picture to see

state. These are a series of ridges and ravines, cliffs and canyons, once scarred and seamed by the ruthless miners, but now covered again by the mercy of the wild gardens of buckeye and chaparral, or by the tame gardens of apple and peach and orange. Darker purple and azure mark the mountain wall as it ascends. This is the belt of firs and pines and redwoods. Here the valleys deepen into canyons and the hills rise into mountains. Still higher up, neighboring with the sky, runs the belt of crystal and pearl — the summits and precipices of the Sierras, broken into domes and peaks and pinnacles — the couch of snows, the cradle of glaciers.

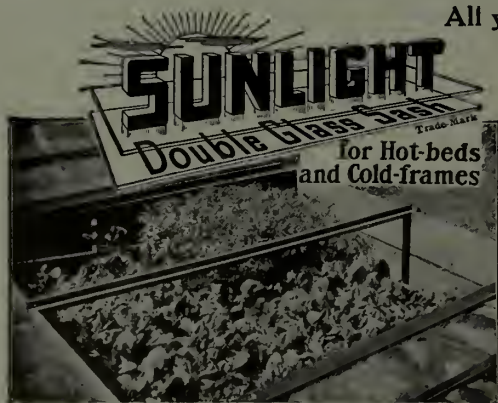
Up near the dividing line of California and Nevada nestles Lake Tahoe, the Lake Geneva of the West. It lies a few miles back from the old Overland Road — not far from Truckee. Tahoe is over a mile above the sea-level, with encircling peaks shouldering up five or ten thousand feet higher. It never freezes, although the snows may in winter rim its shores. Strangely and mystically blue its waters are; and every shade of azure, from nemophila to gentian, deepens and lightens in this stupendous aerial sapphire cavern, which embraces the lake for floor, the mountains for walls, the sky for dome.

Fallen Leaf Lake is not far away from Tahoe; and from Mt. Tallac one looks down upon a score of smaller lakes — the remnants of old glaciers. At Glen Alpine there is a wonderful mineral spring with eleven flavors in its brew; and near the Glen lies a bevy of little lakes. At Deer Park, in the primeval forest, are the Five Lakes, with winding walks to peaks and waterfalls.

Yosemite Valley is of course, the most renowned region in the Sierra Nevadas. But the King's River Valley is well-nigh as wonderful, its walls being even more Titanic, although it lacks the charm of the Yosemite cataracts. Mt. Whitney, the highest mountain of the range, is near to this valley, as is also the General Grant National Park.

Yosemite, about one hundred and fifty miles

## Have Spring when you want it. Have it NOW!



Grow fresh vegetables for your table and to sell.

SUNLIGHT DOUBLE GLASS SASH CO.

925 EAST BROADWAY

LOUISVILLE, KY.

All you need is a plot in your garden covered with Sunlight Double Glass Sash. GET THEM NOW.

You will be surprised to see what fine, strong plants you can grow. Your flowers and vegetables will be six weeks ahead of the season. And, how much better they are when not commonplace — when they are your own achievement!

#### Sunlights Eliminate the Drudgery.

When the hot bed is made, planted and covered with the double-layered glass the hard work ends. Thereafter lettuce, radishes, onions and greens are growing ready to eat; and such plants as cabbage, cauliflower, beet, tomato, pepper, cucumber and melon, in order, are growing ready for the early field. The double glass enclosing a non-conducting air space, keeps the bed bright by day and warm by night and does away with the labor of using heavy boards or shutters. The sash are complete in themselves. Get them now. Our catalog sent free. For 4c we will also send you Prof. Massey's booklet on hot-beds.



# TILE

## A real tiled bathroom

No imitation of tile in a bathroom can take the place of the real tile. When it comes to resisting dampness and steam no surface is so impervious, and when it comes to making an attractive white or delicately tinted bathroom, nothing can give the effect of tile.

In our booklet "Tile for the Bathroom," are some interesting facts about the actual cost of tile. You will be surprised at the comparative inexpensiveness of tile. This booklet is sent free to home builders, as are also the following "Tiles for Fireplaces," "Tiles for the Kitchen and Laundry," "Tiles on the Porch Floor." You would do well to read them before perfecting your plans.

THE ASSOCIATED  
TILE MANUFACTURERS  
Room 1, Reeves Building  
Beaver Falls, Pa.



**Five O'Clock Tea Hand Dipped Bayberry Candles**  
A customer suggests that she finds our small Bayberry candles (1 1/2 to 4 inches long and 3/8 to 1 1/2 inch in diameter at base) excellent for short functions. By melting a bit of the wax at the base, one, two, three or more can be made to stand in a saucer or plate, and will burn until all the wax is consumed. They last from 35 to 40 minutes and seldom, if ever run over. Price with booklet of bayberry and sea verses 40 cents per dozen postpaid.  
Cape Cod Products Co., North Truro, Mass.

## HORSFORD'S

New Catalogue of Hardy Plants and Flower Seeds that Grow is now ready. It offers a lot of things suited to your summer home or city back yard; hardy kinds including ferns and wild orchids. **FREE** Don't fail to see it before making up your spring lists.  
F. H. HORSFORD, Charlotte, Vermont

### A BEAUTIFUL PLANT BOOK PRINTED IN COLORS—FREE

You need this book whether you have a city lot or a large country home. Suggests new and unusual trees, shrubs and old-fashioned garden flowers which will make your garden distinctive.

### Meehans' Trees and Shrubs

are vigorous—hardy—dependable growers. Fifty-eight years of horticultural experience has taught us what is most artistic and practical. Be sure to get this valuable book—a request brings it.

THOMAS MEEHAN & SONS  
Box No. 16 Germantown, Penna.

## This Tool Will Pry Into Anything

It lifts the lid of a packing case—rips up a floor—takes down a scaffold—pulls contrary nails—pulls them straight. Pulls nails as high as a man can reach. Does things no other tool can do—things you need done. Pays for itself over and over again in nails and lumber saved.

Two sizes, 14 in. and 22 in. Shopkeepers, mechanics, manufacturers, electricians, householders—this is your special tool—one you need to keep handy.

**BONNER Pry Bars**

Like other "Bonner" tools, are drop forged from special steel and finely tempered. Ask your dealer for a "Bonner" pry bar. If not with him, will ship you direct. Send us your dealer's name.

Also makers of Bonner Auto Kits, Bonner Farmer Kits, Bonner "Victor" Chain Wrench and other special purpose tools.

C. E. BONNER MFG. CO., Champaign, Ill.

Kate Douglas Wiggin  
and  
Nora Archibald Smith



Kate Douglas Wiggin

Nora A. Smith

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# DINGEE ROSES

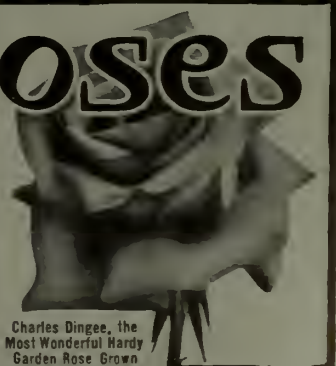
Are the best grown, hardiest and freest blooming. Little care is required to grow them. Sixty-one years of experience is back of them. Dingee Roses are unequalled for beauty, vigor and growth—always grown on their own roots—the only way a rose should be grown. No matter where you live, we prepay all express charges under a special plan, explained in our book, and guarantee safe delivery. Write today for the greatest Rose book ever published, entitled

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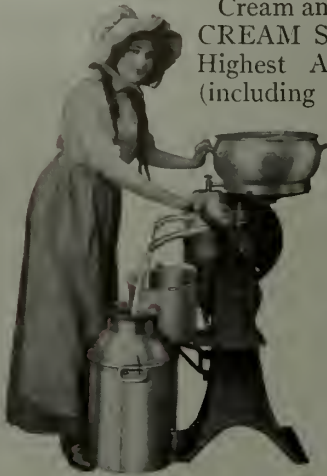
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Cream and butter produced through the use of DE LAVAL CREAM SEPARATORS made the usual clean sweep of all Highest Awards at the great 1911 National Dairy Show (including the annual convention of the National Butter-makers Association) held in Chicago, October 26th — November 4th, just as has always been the case since the organization of the National Association in 1892.

### WHOLE MILK CREAMERY BUTTER

The sweepstakes or highest award in this class was won by A. J. Anderson, Otisco, Minn., with a score of 97.50, who says: "I have been using De Laval separators for ten years and would not think of using any other."

### FARM SEPARATOR BUTTER

The sweepstakes in the gathered cream factory made butter class was won by R. O. Brye, of the Readstown Creamery Co., Readstown, Wis., with a score of 97.33, this prize winning butter being made from the cream of farm patrons using De Laval separators exclusively.

Mr. Brye says: "I was raised on a dairy farm, where my father used a De Laval separator, and my own separator experience covers a period of twenty years. I have found the De Laval machines everything that is claimed for them."

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The highest award for cream was made to Nichols Bros., Bloomfield, Ky., with a score of 98.80, who say: "If we didn't use the best separator we could not have made this record. Our experience has proved the De Laval the only separator that 'delivered the goods'."

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Would-be competitors are naturally forced to make many claims for their separators. But the superiority of De Laval cream and butter, as evidenced by the winning of all highest prize awards the world over for twenty years, is something so overwhelming as to be indisputable and unanswerable even by the most reckless would-be competitor.

## THE DE LAVAL SEPARATOR CO.

NEW YORK

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**Krementz Bodkin-Clutch Studs and Vest Buttons** appeal to fastidious dressers as the most perfect for wear with stiff bosom shirts. They go in like a needle and hold like an anchor; and are absolutely free from bother of any kind.

Ask to see them at any of the leading jewelers. If your jeweler does not keep them, write for Booklet and name of jeweler who does.

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Makers of the famous Kremmentz Collar Button

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**NATIONAL LEAD COMPANY, 111 Broadway, New York**

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**Standard Sanitary Mfg. Co. Dept. 25, Pittsburgh, Pa.**

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**NOW USED IN EVERY STATE**  
Every Principle new; all iron malleable except Wood box completely ironed.  
Wheels 3 ft., 2 inch rim. Will not injure sod.  
Capacity 10 cu. ft. or 640 lbs.  
Dumping entirely automatic.  
End gate always under control.  
No effort required to push it. A boy can do a man's work. A necessity and price reasonable. Write today for illustrated Catalogue.  
**BAKER MFG. CO., 589 Hunter Bldg., Chicago, Ill.**

east of San Francisco, ranks in nature as the Parthenon ranks in art. An easy journey by rail from north or south brings one to the stage road that completes the ride to the great valley. Let us make the first trip by way of the Calaveras Big Trees. We approach the valley of wonders. Through the dark forest into the open glade we go; then through a violet haze we see the mile-high granite walls sculptured into battlements and minarets, with Cloud's Rest and El Capitan holding up the sky. Below lies the Elysian field of the valley, silver-seamed by the Merced, the river of Mercy; while distant cascades are springing over the craggy walls and forever raveling and knitting the waters into webs of mist and light. Joaquin Miller has looked on it all and felt the passion of it. Here is a fragment of his song:

"Sound! sound! sound!  
O colossal walls and crowned  
In one eternal thunder!  
Sound! sound! sound!  
O ye oceans overhead,  
While we walk subdued in wonder,  
In the ferns and grasses, under  
And around the old Merced!"

The valley is hewn out of pure granite. Some cosmic tragedy may have drawn down out of the ancient rock the unreckonable tons to make the hollow that is Yosemite, leaving the ages to fill the void with trees and troops of flowers. Certain it is that every aspect of wild beauty is here in crag and dome and cliff, in meadow and gorge, in cascade and cataract.

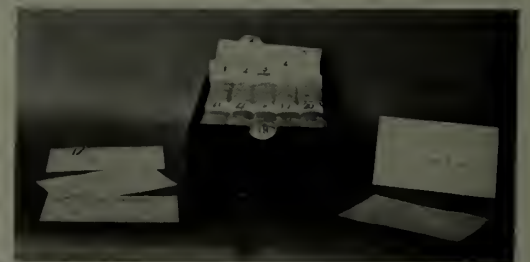
Yosemite National Park includes the Tuolumne as well as the Merced rivers. The Hetch Hetchy Valley is the canyon of the Tuolumne. This lovely twin valley repeats in its Sunrise Point and in its Wapama and Tueulala Falls the beauty of the cliff and cataract of her great sister gorge of the Merced.

The "big trees" abound in Yosemite Park. The sequoia is the tree wonder of the planet. It was in its early prime when the tree that furnished the Cross of Calvary first sprung from the earth. It is now found only in the groves of California. It sometimes rises three hundred feet with a diameter of thirty feet. Majestical, symmetrical, unshaken by wind and storm, each tree approaches almost perfectly the archetypal; there is no other tree so Aeschylean in dignity. Unsubdued by Time, the sequoias stand in their places as the oldest watchers of our world.

### CARD CATALOGUES FOR THE COUNTRY MAN

YOU are all familiar with the lamentable case of the old lady who went to bed early so that she could get up early so that she could get her work done early so that she could get to bed early so that she could get up early the next morning and get a good start on her work. Well, that old lady lived in the country.

The one weakness of country life in America (the life, please, not the magazine) is that it holds too much work for most of us who live it.



The tickler and tickler slips. There is a card for each day in the year and reminders which never fail are written on them

The historic character mentioned in the opening sentence is not the only person who is doing her work all wrong and this article is a plea for the lightening of work in the country by the use of systematic methods and especially of the assistance that can be gained by the use of the simpler tools of modern business.

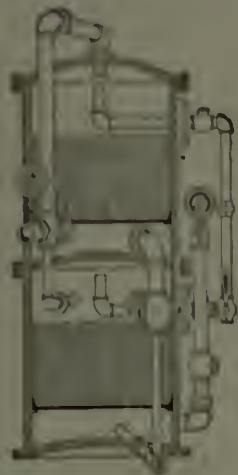
And I rise here to place in nomination, as one of the most valuable of the assistants of the man who lives in the country, the humble little "tickler."

A tickler, as most of you doubtless know, is a simple enough instrument of systematizing



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Paddock  
Double  
Water  
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to the better health of your family. You safeguard your health and that of your family by insisting upon pure food, healthful surroundings — pure air

### Just as Important

To you is the purity of your water. Don't overlook it. Your entire water supply is twice filtered and delivered from

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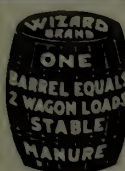
Mott's built-in baths of Imperial Solid Porcelain are glazed inside and out — a beautiful and permanent finish.

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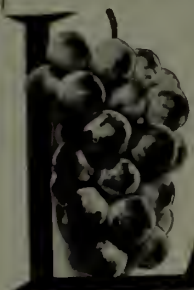
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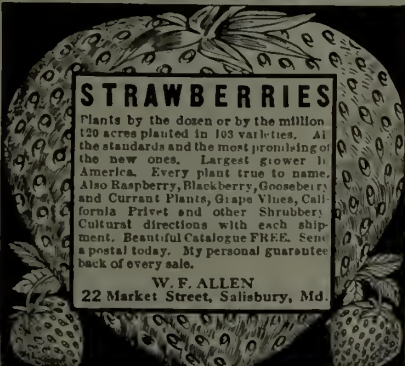
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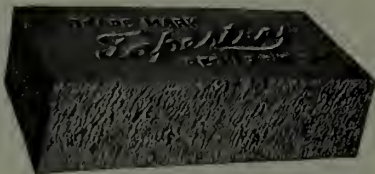
Your house will be warmer in winter, cooler in summer, safer from fire, freer from depreciation, more salable and a source of the greatest pride and satisfaction.

"Tapestry" Brick is the most beautiful and economical building material in the world. No one can afford to build without thoroughly investigating its merits.

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## LION BRAND INSECTICIDES & FUNGICIDES

ARE THE STANDARD OF THE WORLD  
Strongest—Purest—Most Effective—Safest to Use

Destroy every Known Insect Pest and Fungous Disease of Fruit Trees; Save the Trees and Insure Larger Crops of First Quality Fruit

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For San Jose Scale particularly, and the only Spray that destroys Scale and does not injure Trees. Ready for use, and more economical than home-made

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Prevents Blight, Mildew, Rot, etc., from destroying Potatoes, Beans, Peas and Melons; keeps spots and specks off Apples, Peaches and other fruit, and makes crops surer and far larger. One gallon to 49 of water.

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The stickiest arsenate made. Preferable for Codling Moth, Curculio, Elm Leaf Beetle and Chewing insects of all sorts, on trees, shrubs, vines, bushes and vegetables, where it is desirable that the poison remain longer on the foliage than is possible with other insecticides. Does not burn the most delicate foliage.

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527 Hudson Terminal, New York. 204 Broad St., St. Joseph, Mich.  
Factories—New York and St. Joseph

work. So simple is it that I have heard it referred to in my own household as "that messy little card rack." And, in reality, that is all it is—barring the unjust adjective "messy."

A tickler is a wooden tray, five inches by ten. In this tray are guides—that is, pieces of pasteboard three by five inches—on twelve of which are the names of the months and on 365 of which are the numbers of the days of the year. These guides are placed in the wooden tray vertically and each month is given its proper number of cards.

This is a most complicated explanation of an extremely simple device but that is my fault, not the tickler's.

The beauty of the thing is that with the guides in place you have a space for each day of the year. Now suppose there is something that you

Start work on house Nov. 1.



FIG. 1. Dr. P. T. Woods' improved operating poultry house. West elevation. Size of house, 10 ft. by 12 ft. by 10 ft. high. Each square is 1 ft. by 1 ft. See Poultry House Book for specifications.

See Poultry House Book for specifications.

How the tickler slip is filled out. It always turns up at the right moment

want to do on January 21. You jot it on a tickler slip and place it before the guide numbered 21 in the January division of the tickler. Each day you take out the front card of the tickler, bringing the thing up to date, and slipping the old card to the back. Eventually you come to January 21. And on that date you find the slip awaiting you—placed there perhaps months before.

The tickler is, in other words, an automatic memory.

How does it help the man who lives in the country?

Well, in so many ways that it staggers one to begin the telling.

Here is my own experience: When I started in the poultry business I was as green as steamed alfalfa. Realizing this I bought every poultry book I could then find—eleven in all. In each one after the other I immediately turned



It is as important for the farmer to economize time as it is for any business man. The card catalogue system is a great help

to the matter of poultry house construction, determined what sort of house I wanted, and had it built. In the meantime I ordered fowls; and, judging that the next problem would be that of feeding them I turned to that subject in first one book and then the other.

After the chickens had come they forthwith began to lay and at once I began to absorb assorted views on the scientific way to set a hen. With the first one set I turned to the care of young chickens and read about it "all eleven ways." And so I studied the problems of poultry husbandry as the need for knowledge arose.

But here enters the tickler. Every fact I read which I felt I should need later I noted down on a tickler slip and placed it so that it would come up at the right date.

For one example I noted that the floor of the

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Thousands of families of cultivated taste now serve NEW CREAM exclusively. Travelers of wealth, refinement and title are served NEW CREAM at great hotels and in dining cars of great railroads.

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**THE SHARPLES SEPARATOR CO.**

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Dallas, Tex. Toronto, Can. Winnipeg, Can.

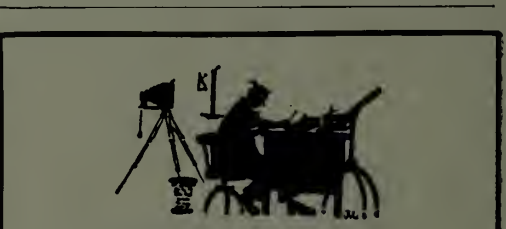
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This service is entirely supplementary to that of those who have regular methods of handling their advertising. It is a primary service to those who have not regular publicity systems of their own, or at their command. So if you contemplate taking advertising space in any of our publications, and desire our assistance, it is yours on request. Write, giving full particulars and descriptive literature, to Jay Vee Lamberton who runs

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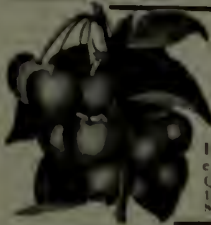
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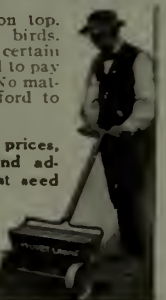
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PUTS the seed in the ground—not on top. None blown away or eaten by birds. Makes a beautiful, uniform lawn certain in the shortest time. Saves enough seed to pay for itself. Run easily by one person. No matter how small your lawn you can afford to have this seeder.

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### Supply Systems

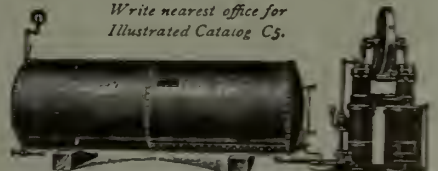
For over half a century "Reeco" Rider and "Reeco" Ericsson Pumping Engines (operated by hot air) have been considered the most efficient, economical and dependable equipment made for domestic water supply.

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From a Photograph Showing the Last Step in Locating the Exact Center of Population of the United States.

## "The Center of Population"

### A Title that Fits Every Bell Telephone

From the census of 1910 it is found that the center of population is in Bloomington, Indiana, latitude 39 degrees 10 minutes 12 seconds north, and longitude 86 degrees 32 minutes 20 seconds west.

"If all the people in the United States were to be assembled in one place, the center of population would be the point which they could reach with the minimum aggregate travel, assuming that they all traveled in direct lines from their residence to the meeting place."

—U. S. Census Bulletin.

This description gives a word picture of every telephone in the Bell system.

Every Bell telephone is the center of the system.

It is the point which can be reached with "the minimum aggregate travel," by all the people living within the range of telephone transmission and having access to Bell telephones.

Wherever it may be on the map, each Bell telephone is a center for purposes of intercommunication.

To make each telephone the center of communication for the largest number of people, there must be One System, One Policy and Universal Service for a country of more than ninety million.

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Universal Service

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As lovely and showy as *Hydrangea Paniculata*, but blooms all summer, instead of for only a few weeks. Great clusters of pure-white flowers, often a foot across. Entirely hardy; makes handsome specimen for lawn. We were original introducers, and offer genuine stock.

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612 New Murray Bldg.  
Grand Rapids, Mich.

ALCOVE DRESSING ROOM

chicken house should be spaded twice a year. A moment's consideration showed me that late fall and early spring would be the best time. So I prepared this tickler slip:

Spade up floor of chicken house Nov. 1 and May 1.

and put this slip before the November 1 card.

If I have it stored in my memory that I should spade up the floor in the late fall the reminder is only general. But when on November 1 I uncover the card I am reminded specifically and the date is set. If I can not do the work the day named I pass the card back one day and so it keeps bobbing up and being put back until from very shame I go out and spade the floor.

All the wisdom I drew from the eleven books as to the proper way and time for doing things I placed on the slips and these were placed in the tickler. And yearly or monthly or weekly, as their duty is, they turn up. Gradually I improve the system, adding new dates and new facts. And gradually I am perfecting a tickler full of chicken facts that will grow in value as long as the chicken raising lasts.

There are other ways of making the tickler useful to the chicken farmer. When I set a hen I mark on the tickler slip the hen's name or number, the number of eggs on which she is set, the pen from which the setting comes, the days she is to be treated with lice powder, and the day she should hatch. You can readily see how this would work out and that the record of the hatch could be passed on to the end of the year, at which time you could have a general accounting.

I have tried to give a hint of the usefulness of a tickler in a tiny poultry plant. It can be expanded to fit the needs of a mammoth poultry ranch.

And more than that it can be used in a hundred different ways to simplify the work on a country place.

Do you raise cows? Or is a garden your specialty? The tickler will solve your problems, remind you of when and how to do things—absolutely guarantee you against forgetting.

No man can tell exactly how to suit a tickler to the needs of another man's work. Get a tickler and a good supply of three by five cards, place on the cards anything you wish to be reminded of at some later date and at once the tickler becomes an instrument worth a hundred times its cost.

Many a man who has the reputation of possessing a great and useful memory has nothing more miraculous than a tickler.

Some day some enterprising manufacturer of office appliances will awaken to the possibilities of the tickler, will get out a booklet explaining what it will do for the average man and will then sell the average man at least, a million. I should like to pay the refund on every one returned as useless provided the manufacturer would pay me one tenth of one per cent. for all he sells.

PERCY H. WHITING.

## ANOTHER WAY OF STARTING A COLD MOTOR

**EVERYONE** who uses an automobile in cold weather has at times had difficulty in starting the engine. The chilled gasolene refuses to vaporize at low temperatures and consequently an explosive mixture of air and gas does not form. The common method of starting a chilled motor is to open the pet cocks on top of the cylinders and to squirt some gasolene into the cylinders through them, but this does not always work. Another method sometimes practised in garages is to fill the radiator with hot water. I have at times had both of these methods fail utterly but I recently learned a little trick which works every time. It consists in saturating a piece of cloth or a handkerchief with gasolene and laying it over the air intake valve on the carburetor. In this way sufficient gasolene vapor is drawn into the cylinders to make the first explosion after which the engine should continue running without further trouble. I recently started my car in this way with a single lift on the starting crank. The car had been in a temperature of 12 to 15 degrees above zero for a week and I had been struggling with it for several days in vain. A friend finally made this suggestion to me and for the benefit of the readers of COUNTRY LIFE IN AMERICA, I pass it along. JOHN GUTHRIE.

## FEED YOUR LAND

with nourishing fertilizer and have cleaner, greener lawns and plentiful crops. To get anything good from your soil, put something good into it — PETER COOPER'S FERTILIZER. It is the acme of plant food. As with all products which bear the Cooper name, it has been made and sold upon honor since 1827 and is still. Write today for prices — A thing done at once is never forgotten.

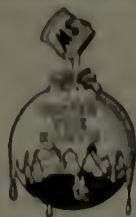
### LAWN DRESSING

It feeds the lawn and keeps it like a carpet, green and soft, and as good as when first made. Lawns lose their vitality unless nature is assisted. Peter Cooper's Lawn Dressing saves and preserves the lawn.

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**Peter Cooper's Fertilizer**  
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Dept. "B"



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The right paint for the outside of your house is Sherwin-Williams Paint (prepared). Known to the painter as

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Some beautiful color combinations for house painting are shown in colors in our free portfolio, together with complete specifications for producing the results shown. Send for it.

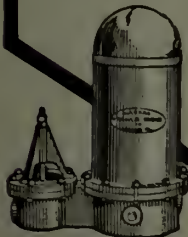
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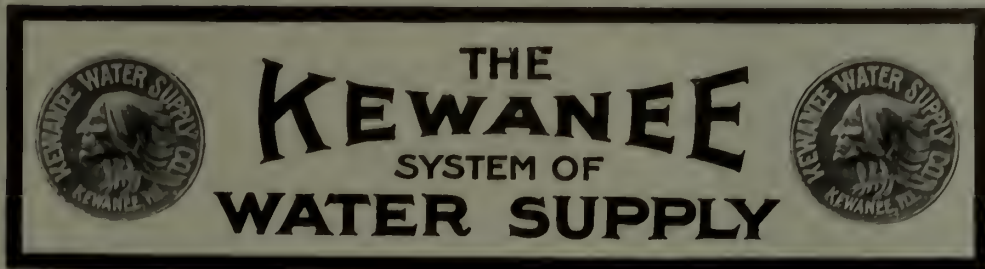
You can have running water in every room of your country home—in your stables, barns, carriage sheds, garage, etc., without the expense of pumping or employing help. Simply install a

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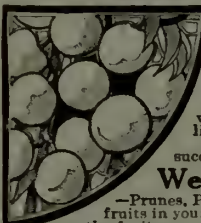
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We grow the above, and many rare evergreens, etc., so well that they will transplant successfully to your grounds, and continue their magnificent growth.

### We Handle Luther Burbank's Newest Fruits Exclusively

—Prunes, Plums, Peaches and Cherries. Don't miss this opportunity to plant some of these rare, delicious fruits in your home grounds. Our free illustrated Price Catalogue describes them. "California Horticulture," the fruit-grower's guide, and "New Products of the Trees," 25 cents each, postpaid.

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### Weighted with Water

A lawn roller whose weight can be adjusted to the conditions of your lawn, garden, tennis court or driveway.

All in one { A light Machine for the soft, wet spring lawn.  
A heavy Machine for the hard, dry summer lawn.  
A heavier Machine for the driveway or tennis court.

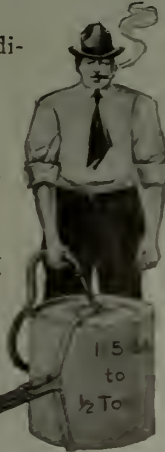
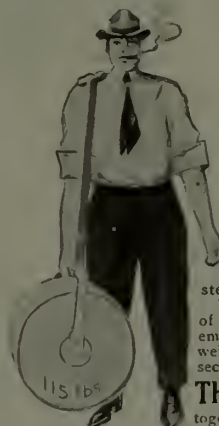
Why buy one of the old style iron or cement fixed weight rollers that is generally too heavy or too light to do your lawn the most good, paying for two or three hundred pounds of useless metal — and freight on it as well — when less money will buy the better, most efficient.

### "Anyweight" Water Ballast Lawn Roller

Remember that a difference of 50 pounds may mean success or ruin to your lawn—a half ton machine will spoil it in early spring, while a 200 lb. roller is absolutely useless later in the season. If you desire a fine, soft, springy turf of deep green, instead of a coarse, dead looking patch of grass, use an "Anyweight."

The "Anyweight" Water Ballast Roller is built in 3 sizes, all of 24 inch diameter and of 24, 27 and 32 inch widths. The machine shown here (our smallest) weighs but 115 lbs. empty, 470 lbs. when completely filled with water, and 737 lbs. with sand. The other sizes weigh 124 and 132 lbs. empty and from that "anyweight" up to half a ton. Filled in 30 seconds—emptied in a jiffy. Fully protected by our patents. Run easy—last a lifetime.

**This Book sent free:**—We will mail you, postpaid, our valuable and interesting book on "The Care of the Lawn," together with folder about the "Anyweight." Write us today. Save money—save your lawn.



**WILDER-STRONG IMPLEMENT CO. Box 7, Monroe, Mich.**

# The Case of Richard Meynell

By  
Mrs. Humphry Ward

¶ Publishers are accustomed to advertise at great length the opinions of the reviewers. This time we wish to reprint a letter from a reader. It is one of many, and represents the opinion stated repeatedly that "The Case of Richard Meynell" by Mrs. Humphry Ward is the best book she has ever written.

Here is the letter:

"'Richard Meynell' came very opportunely, in a time of depression and literary drought. I read it once, quickly and eagerly, for the story, you know. Now I am giving it a second, and more careful, perusal. It is a fine piece of work."

¶ Richard Meynell dares think and speak his real thoughts about this world and the next. If these things mean anything, the story of this man's struggle and love will have a real appeal for you.

¶ Critics and reviewers everywhere have declared it to be a product of Mrs. Ward's ripened art.

*Illustrated. Fixed price, \$1.35 (postage 12c.)*



"Meynell, as he hesitatingly advanced, became the spectator of a scene not intended for his eyes."



And as she spoke a great shout which became a groan ran through the crowd. Men climbed up the railings at the side of the road that they might see better. Women stood on tiptoe.

As the procession neared them Mary saw a gray-haired woman throw up her arm, and heard her cry out in a voice harsh and hideous with excitement: "Let 'im as murdered them pay for 't. What's t' good o' crowner's juries?—Let's settle it oursel's!"



"My dear fellow! No woman ought to marry under nineteen or twenty."



EXPERIMENT STATION NEWS

CONDUCTED BY W. C. O'KANE

[EDITORS' NOTE.—In this department we shall publish some of the most important news from the National and various State Experiment Stations that develops from month to month—results of scientific experiments, discoveries and inventions, and reports of investigations, etc., etc. Mr. O'Kane is Entomologist at the New Hampshire Station, at Durham, N. H.]

SEED-BEDS FOR WHEAT—Out in Kansas they have been studying various methods of preparing the seed-bed, in their relation to the yield of wheat.

Many farmers, postponing their plowing until mid-September, fail to catch and save the rains of late summer and early fall. The hard-packed ground will not take up the moisture. Others merely disk the ground, or send the plow through it to an insufficient depth.

In the Kansas tests land plowed a proper depth, but too late, yielded 15½ bushels to the acre. When disked, and not plowed at all, the returns were 4¼ bushels to the acre. When the plowing was pushed forward to August 15th, and the soil was then harrowed and cultivated to preserve a surface mulch and retard evaporation, the yield jumped to 27¼ bushels. The same programme, minus the harrowing and cultivation, reduced the yield to 23½ bushels. Counting in the added labor cost, the use of a surface mulch added nearly \$3 per acre to the net returns.

With plowing begun July 15th, which is considered the right time, the yield promptly



Winter vetch is a hardy plant adaptable to many soils, and able to withstand the trampling of stock

jumped up into the thirties. Even when the plowing was too shallow, 33½ bushels were secured. With the plow driven to a depth of seven inches the grain reached 38½ bushels to the acre. The net returns under this schedule were \$25.74 to the acre; somewhat better than the net of \$1.47 secured when the land was merely disked.

WINTER VETCH IN ORCHARDS—Winter vetch appears to be one of the most promising cover crops for orchards in northern latitudes, in the

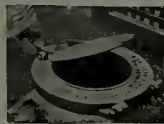
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Garden City New York



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Artistic, comfortable and durable. Old English Garden Seats, Garden Houses, Rose Temples, Arbors, Rustic Work.

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Underground Garbage Receiver  
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*From Mendelssohn's "Songs Without Words"*

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Wouldn't it be a revelation for you, yourself, to bring out the transparent, simple melody and graceful accompaniment, sparkling with all the delicate and evanescent impressions of Spring Time.

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By WOODS HUTCHINSON, M. D.

ANY father or mother beginning to realize what a difficult job it is to rear children will find this little book full of suggestion and stimulating advice. Dr. Hutchinson is a practitioner of wide experience, clear thought and an extraordinary faculty of epigrammatic expression. If you are confronted by any of the problems of bringing up a child, mental, moral and physical, you will discover in these chapters just the sort of inspired common sense with which an old family physician, in whom you had utter confidence, might relieve your perplexity if you had time to talk things all over with him.

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Have the Cooking Power  
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AMERICAN FACTORIES ESTABLISHED 63 YEARS FOREIGN FACTORIES  
New York Buffalo Chicago LONDON PARIS  
BRIDGEBURG CANADA HAMBURG

experience of the Michigan Station. This is the same plant that often goes under the name hairy vetch, or sand vetch.

In the tests in Michigan the plant has made moderately heavy growth, even when seeded unusually late. It is proving hardy, adaptable to many types of soils, and able to withstand the trampling of live-stock. With the coming of spring it starts into vigorous growth, yet seems to be fairly easy to plow under. The roots gather large amounts of nitrogen.

Best results are secured when the seed is sown in the latter part of July. The amount required is 25 to 30 pounds to the acre, and the seed must be harrowed in, unless a drill is used. Oats or rye may be combined with the vetch so as to get a heavier cover before winter.

A SUCCESSFUL FARM—A New York farm investigated by the Department of Agriculture shows what can be accomplished by careful and consistent management of an ordinary farm producing ordinary crops. It is interesting enough to learn of the unusual in agriculture—the successful attempts with new or unfamiliar crops and other achievements that represent originality and enterprise—but there is interest and inspiration in the work of a man who deals with the everyday, and makes a sound success. That is the point of the farm in question.

The man has lived on the place for eighteen years. The crops grown are wheat, clover, and potatoes—a common rotation everywhere. At the start the farm was in poor shape. Much of the land was in serious need of tile drainage. The equipment was meagre. The owner was in financial straits. The prices of farm produce were low. The yields were not large. Nevertheless a consistent programme was mapped out and lived up to. The work of drainage was begun and progressed steadily from year to year. A rotation was adhered to that would build up the fertility of the soil. A splendid home garden was maintained. A model equipment of tools was acquired. By thorough good management the yields of the crops grown were brought up to a high point and held there.

The whole farm is now underdrained, with more than 10 miles of tile in its 56 acres. The average yield of wheat for the last dozen years has been 25 bushels per acre, and for the latter half of this period the yield has been 5 bushels greater than for the earlier half. Clover is considered a certain crop. The first cutting is made into hay—two to four tons to the acre. The second cutting is returned to the soil. Potatoes for the last nine years have averaged 282 bushels to the acre.

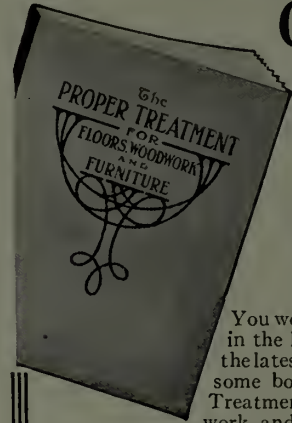
THE NEW "ACRE COSTS"—Investigators in farm economy and management are working out the farm machinery problem on the basis of acre cost: that is, the average cost of maintaining a given type of machine per acre of crop served by that machine.

Through studies of many farms a reliable figure is obtained showing the average purchase price of, say, a grain drill. In the same way depreciation and repairs are ascertained. The annual interest on the money invested is added to this, and thus the annual total cost per machine is arrived at. By comparing this with the average annual acreage served by the machine, a unit of annual "acre cost" is obtained. In the case of such implements as harrows or rollers that are used repeatedly in a single season, the cost is figured on the basis of one acre covered once, or as it is explained, an "acre time."

This is getting down to bed-rock, and the resulting figures are instructive. In an investigation of this nature conducted jointly by the United States Department of Agriculture and the Ohio Experiment Station the following acre costs were secured: walking plow, 7.2 cents per acre served; riding plow, 1.83 cents; spike-tooth harrow, 1.9 cents; disk harrow, 4.9 cents; one-horse cultivator, 4.3 cents; corn binder, 36.9 cents; corn shocker, 84.2 cents; grain binder, 26.4 cents; grain drill, 13 cents; hay loader, 24.8 cents; mowing machine, 10.5 cents; hay rake, 5.5 cents; hay tedder, 16.4 cents.

A few machines could not be figured down to acre cost. These are given on the basis of annual cost of the machine. Thus, manure spreaders show an average annual cost of \$16.29;

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No. 130 Early English	No. 121 Moss Green
or Manila Oak	No. 122 Forest Green
No. 110 Bog Oak	No. 172 Flemish Oak
No. 128 Light Mahogany	No. 178 Brown Flemish
No. 129 Dark Mahogany	No. 120 Fumed Oak

Half Gallons \$1.50

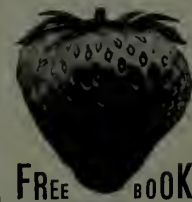
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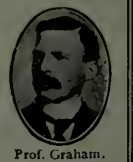
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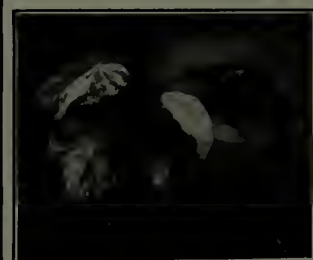
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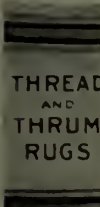
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"If Huck Finn ever had a brother, this is he"

## DANNY'S OWN STORY

By Don Marquis

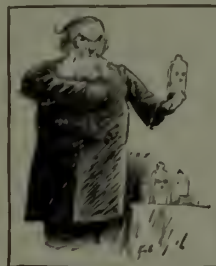
"I been around the country a good 'eal, too, and seen and hearn of some awful remarkable things, and I never seen no one that was n't more or less looney when the search us the femm comes into the case. Which is a dago word I got out'n a newspaper and it means: 'Who was the dead gent's lady friend?'"

¶ Danny enters upon the scene nameless, a baby in a basket, abandoned before the door of Hank Walters, the blacksmith. From that very minute, the fun begins—such real, delicious, irresistible fun as only Mark Twain and O. Henry have hitherto furnished the world.

¶ Autobiographically, Danny says: "There was n't nothin' perdicted of me, and I done like it was perdicted. If they was devilment anywhere about that town they all says: 'Danny he done it.' And like as not I has. So I gets to be what you might call an outcast."

¶ The boy runs away presently with a peripatetic "Doctor" whose mission is to make known the wonderful powers of "Siwash Indian Sagraw," and he plunges into the kaleidoscopic life of the patent-medicine fakir, small circus shows and so on, with a zest in life and a human philosophy in his side-splitting humor that are quite amazing.

Illustrated irresistibly by E. W. Kemble. Fixed price, \$1.20 (postage 12c.)



GARDEN CITY DOUBLEDAY, PAGE COMPANY NEW YORK

TO encourage people to establish country homes is one of the objects of this magazine. The interest aroused and the impetus given toward home building out of town, the question **Where shall I find a place?** still remains to be answered. The real estate advertising in the front of each number of *Country Life in America* answers this question for many every month. Many places are offered for sale or for rent by the owners. Many more are offered by reliable real estate agents. Whether you hanker for a bit of land yourself or not you will be stirred by the land hunger if you read the real estate advertising in the front of this magazine.

**Automobiles and Motor Accessories** Under this heading are printed illustrated advertisements of many things necessary for the motorist. All sorts of information will be furnished upon request. Address: AUTOMOBILE DEPARTMENT, 11-13 W. 32d Street, New York.

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The "48" Six Cylinders.  
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THE BEST BUY CAR  
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IN AMERICA

fanning mills \$1.64; farm wagons, \$6.55; ensilage cutters, \$11.87; and corn shellers, 81 cents.

Ultimately these investigators hope to reduce the cost of farm buildings to units representing an average charge per head of live stock and per unit of products stored or housed.

In the farms studied the average investment in land was \$7,676; farm buildings \$2,705; household buildings, \$2,500; fences, \$763; drainage \$366; water supply, \$225; work animals, \$640; colts and driving horses, \$250; cattle \$582; sheep \$201; swine, \$158; poultry, \$52; harness, \$131; machinery \$1,125; and minor articles, \$200.

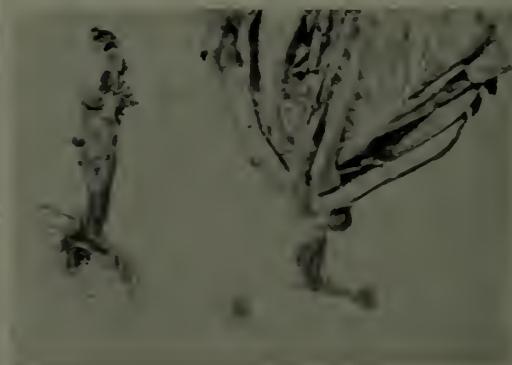
These figures are valuable from two distinct angles of view: first, as showing the fact that the total investment in many farms is really greater than the owner of the place would estimate it off-hand; and second, because they point the truth that buying a farm already equipped, when the place is carefully selected, is apt to involve much less outlay than the building of a place from the ground up.

**POTATO POSSIBILITIES**—The Wyoming station puts the problem of potato yields this way:

In one acre of potatoes planted in rows three and one half feet apart, and spaced 14 inches apart in the row, there are something like 10,000 hills. If each hill were to yield 8 potatoes, which is not at all extraordinary for individual hills, and if each potato weighed 8 ounces, a moderate figure, the yield from the acre would be 520 bushels. The fact that the average potato crop runs only 20 to 30 per cent. of this figure shows that many or most of the hills must fail to produce their share: in other words, that insects, disease, weeds, poor seed bed, bad spots in the soil, imperfect seed, and unfavorable weather, each takes its toll. To a considerable extent most of these influences are entirely subject to control, and the remainder are decidedly influenced by proper precaution and care. You may argue that the low spot in one part of the field has only a modest effect on the total yield; that the bugs that eat the vines do not affect the tubers very much; that the seed was fairly good, if not quite the best; and that another cultivation would not have helped a great deal. But the total of all these things that might have been done better makes the difference between 100 and 350 bushels to the acre.

**TWO CABBAGE DISEASES**—The sprightly cabbage is threatened by the spread of two serious fungous diseases. One of these is properly known as the fusarium wilt, and popularly called "yellows." The other is the phoma wilt known locally as "black-leg" or "foot-rot."

For the first it is recommended that seed be treated by soaking for twenty minutes in a solution of one part formaldehyde, to 320 parts



Work of the two diseases: at the left a plant defoliated by the fusarium wilt; at the right showing the rotting of the root caused by the phoma wilt

of water. Growers must raise their own plants. Infested plants must be destroyed. Cabbage ought not be grown two seasons in succession on the same ground.

For the phoma wilt the same seed treatment and preventive measures are desirable. Since individual plants in the seed-bed may be infected the entire bed should be sprayed with Bordeaux before beginning transplanting in order to minimize the risk of transferring living spores from infected to healthy plants.

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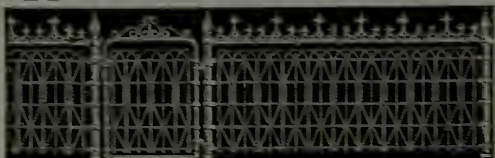
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**The Soul in a Flower.** By Sara A. Hubbard. A. C. McClurg & Co., Chicago. 64 pages; boards, 50 cents net; ooze leather, \$1.25 net.

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**The Artistic Side of Photography.** By A. J. Anderson. Dodd, Mead & Company, New York. Illustrated; 360 pages; price \$4 net.

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It will be a satisfaction to bird-lovers, young and old, to have these well-known essays chosen from several volumes assembled under one cover, with Mr. Fuertes's charming bird portraits.

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**The Mississippi River and Its Wonderful Valley.** By Julius Chambers. F. R. G. S. G. P. Putnam's Sons, New York. Illustrated; 308 pages; price \$1.50; postage 25 cents.

From the days of DeSoto and Pere Marquette the Mississippi River has been the centre of historic interest with us. This latest volume in the American Waterways Series is an account of this "Father of Waters" from its source to the sea, and its place in romance, religion, diplomacy, literature, war, and peace.

**Chats on Photography.** By W. Wallington. J. B. Lippincott Co., Philadelphia. Illustrated; 180 pages; price \$1.25 net.

This book may be regarded by the beginner in photography as a friend who will lead him safely along the simplest and pleasantest paths, preventing him from encountering the many pitfalls which beset his way, and, having taught him the elements of photography so he can walk by himself, leaves him fired with the desire to proceed further with his explorations.

**Music of The Wild.** By Gene Stratton-Porter, author of "Freckles," "The Girl of the Limberlost," etc. Doubleday, Page & Company, Garden City, New York. Illustrated; 427 pages; price \$2.50 net.

All too few are the people who feel the charm of wild nature, and have the skill to convey their own delight in it to others, to the end that they too must seek the wild solitudes, and listen for the music that only ears in tune with nature can hear. To go into the deep woods in the end of winter, and to go, again and again, as the summer waxes and wanes, and winter again comes on—this is the way to make familiar and necessary to one's happiness the music of the forest's myriad voices. The music of the fields is different, and of the marshes, but often the forest is inaccessible. Then one learns how

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The American Shotgun. By Charles Askins. Outing Publishing Co., New York. Illustrated; 321 pages; price \$2 net.

Chapters in this book are devoted to fitting the gun to the man; the time to shoot and the place to aim; the habits and peculiarities of various birds; swing versus snap shooting; comparison of the many priced arms now in the American market, and many other new and important hints for the shooter. It is a book for the beginner and the expert alike.

Yosemite Trails. By J. Smeaton Chase. Houghton, Mifflin Company, Boston. Illustrated; 354 pages; price \$2 net.

While this volume will be found of value as a guide-book to the far-famed wonders of the Yosemite Valley, it was especially intended to describe the attractions of less-known nearby localities, particularly the lake country of the Sierra Nevadas where forest, mountain, glacier, river, meadow and a climate of unequalled regularity aid to make it one of the greatest natural playgrounds in America.

The Beginner's Book of Gardening. By Harry Roberts. John Lane Company, New York. Illustrated; 88 pages; price \$1 net.

This volume well fulfills its purpose as a beginner's handbook. It covers all the more important garden flowers, fruits, and vegetables, giving the necessary fundamentals and a few of the more important details of culture. It will not serve the advanced gardener, but will prove a valuable friend to the novice. Being an English book, the lists of "best varieties" should be accepted with caution.

Insects and Disease. By Rennie W. Doane; Henry Holt & Company, New York. Illustrated; 227 pages; price \$1.50 net.

This is an up-to-date, popular account of the insects that carry disease, and the manner in which the spread of disease is accomplished by them. Parasites, bacteria, and insects that transfer by mechanical means infectious and contagious disorders are fully described, and their ways of life explained. Most space is devoted to the typhoid fly and the mosquitoes that carry malaria and yellow fever. Methods of exterminating these pests are given.

The Herb Garden. By Frances A. Bardswell. Imported by the Macmillan Co., New York. Illustrated; 173 pages; price \$2 net.

Very little if any that is essential about growing herbs has been omitted from this interesting book, and the author has shown how much more desirable it is to have a definite herb garden for kitchen and medicinal use than only a few of these useful plants scattered about a vegetable or flower garden. The effect of such a course is cumulative in respect to color and fragrance, so that the herb beds become an unusual and beautiful feature of the home garden. Planting schemes are suggested to make use of herbs, which will give color effects as charming as ordinary garden flowers and present blossoms much more unusual to the average person.

Toy Dogs and Their Ancestors. By the Hon. Mrs. Neville Lytton. D. Appleton & Co., New York. Illustrated; 359 pages; price \$7.50 net.

The author of this handsome book—who, by the way is the granddaughter of Lord Byron—was six years gathering material for it and what she has to say on the subject of toy dogs is live and to the point as well as authoritative. The book deals only with Japanese, Pekingese, Pomeranian, and toy spaniels, the latter including the black and tan, red and white, Blenheim Prince and King Charles, and a few others. Of other toy dogs the author says she knows nothing, and adds: "Of the toy poodle, Yorkshire terrier, and Maltese, I can only say that they have been 'improved' out of all beauty, and there does not appear to be enough of the old material worth while recapitulating the points which they have long ceased to possess."

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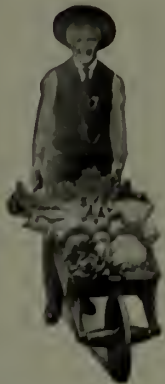
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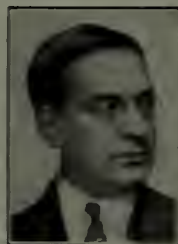
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field and done it thoroughly. The book will interest pet lovers, and prove valuable to dog breeders. It is artistically gotten up, and copiously illustrated with halftones and color reproductions of drawings.

The Heavens and Their Story. By A. & W. Maunder. Dana Estes & Co., Boston. Illustrated; 327 pages; price \$2 net.

Rather "harder" than most of the popular introductions to astronomy, this volume is full of valuable information, the explanations are lucid, and the joint authors, attached to the Greenwich Observatory for years, still believe in "astronomy with the naked eyes" as a source of profit and pleasure to all.

The Cabin. By Stewart Edward White. Doubleday, Page & Co., Garden City, N. Y. Illustrated; 285 pages; price \$1.50; postage 15 cents.

Throughout this absorbing story of the building of a cabin home at an altitude of 6,500 feet among the Sierras is felt the invigorating breath of the forest wild. Woodcraft, nature study and the joy of outdoor living with now and then some shrewd philosophy from old "California John," known to all readers of "The Rules of the Game," furnish the material which renders this one of the most satisfying of Mr. White's several books.

How to Grow Vegetables and Garden Herbs. By Allen French. The Macmillan Company, New York. Illustrated; index; 312 pages; price \$1.75 net.

This is a new edition of the book previously published under the title "The Book of Vegetables." It is well calculated to suit the needs of market gardener and amateur alike. A preface on the general subject of vegetable growing is followed by an alphabetical list of practically all the cultivated vegetables, with concise but complete cultural directions for each. This arrangement makes it particularly handy as a book of ready reference.

The Art of Roadmaking. By Harwood Frost. B. A. Sc. The Engineering News Publishing Co., New York. Illustrated; 344 pages; price \$3 net.

In the comparatively small space of this book is condensed a history of roadbuilding and a review of the fundamental and essential principles of the roadbuilder's art as it has been recorded by the most reliable authorities. The reader who is unacquainted with the subject is given a good general knowledge of it, and the technical man is furnished an outline of the principal facts and a statement of where further specialized information may be found.

The Outlook to Nature. By L. H. Bailey. The Macmillan Company, New York. 195 pages; price \$1.25 net.

This is the new and revised edition of four lectures delivered before the Twentieth Century Club of Boston six years ago and published shortly after. They have been cut down somewhat in the revision, and form one volume of the "Rural Outlook Set." A sympathetic, growing knowledge of nature, an increasing love for the things of the unspoiled outdoor world—these are the factors that make for efficiency, hopefulness and peace of mind in the hurry and stress of modern life. It is a cheerful book, full of Dean Bailey's philosophy of life.

Household Plumbing and Sanitation. By J. Pickering Putnam, B. A., F. I. A. I. Doubleday, Page & Co., Garden City and New York. Illustrated; 716 pages; price \$3.75; postage 55 cents.

From a good health standpoint the importance of scientifically correct household plumbing is daily coming to be more fully appreciated, and this comprehensive book seems destined to hasten the day when this vital matter is fully understood by the general public. It tells just what is good and what is bad in household plumbing of every sort according to the most up-to-date standards, in a simple, popular style to meet the needs of the general public. The result is an eminently successful attempt to make interesting as well as illuminating reading out of what might seem dull subject matter.

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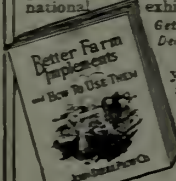
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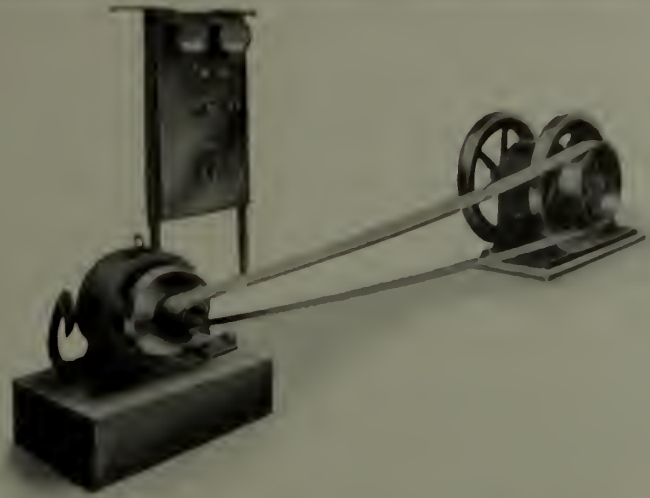
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### A WORD FROM THE EDITORS

**I**N OUR annual vacation number next June we plan to publish two symposiums of brief articles from our readers. Please note the requirements, and if you think you have what we want, send it to us. We shall pick out what we think are the best ones, paying for them promptly, and returning the rest.

#### 1. OUR MOST SUCCESSFUL VACATION

It must give facts and not record sentiments. Tell just what you would tell your cousin in Omaha if he should wish to follow your example. Don't be afraid to put in a few dollar signs and figures; they are useful information.

It should be from 500 to 1,000 words in length, and should be accompanied by some of the best of your snap-shots.

Contest closes March 15th.

#### 2. MY MOST EXCITING MOMENT

Or, better, "The Most Exciting Bit of Sport I Remember."

A very brief account of the time when you caught your biggest fish, or topped your highest mountain, or flew your first aeroplane, or made your finest photograph of big game. Make it snappy, and stick to facts.

Not over 500 words at most; send two or three photographs if possible.

Contest closes March 15th.

#### THE ANNUAL GARDENING NUMBER

Until this year we have always published our Garden Manual in March. At first this occasioned surprise; winter is still with us in full force in March. But gradually our readers caught the idea of early planning and pre-arrangement and forehandedness, until now we have decided to publish this issue still earlier — on February 15th.

The number will be a double one, embellished with two splendid reproductions in full color of autochromes by Arthur G. Eldredge. These show the wonderful spring garden of Holm Lea, Professor Sargent's home, and we consider them the best garden photographs ever printed by the tri-color process.

Among the illustrated features of the issue will appear the following:

"A Suburban Garden Six Years Old," by Marian Cruger Coffin. How a house was framed, a lawn enclosed, a stable screened, a shady walk arranged, and a flower garden and shrubbery borders planted to give spring and fall bloom in harmonious colors.

"An Appraisal of the Dahlia," by Leonard Barron. How the flower has won a place for itself in the garden and with the fancy. Its excellences and its shortcomings, the multiplication of varieties, and cultural requirements.

"Simple Topiary Work," by Henry Maxwell. A gardening method that is more sinned against than sinning.

"The Use and Abuse of the Pergola," by Frances Duncan. Why is a pergola, anyway? Some fundamental principles that should govern building and planting.

"The Soul of the Garden," by Elaine Goodale Eastman. A delicately sketched tale of an old man, and old woman, and a bride-to-be, full of the tenderest of garden sentiment.

"A Spring Garden of Lilacs, Irises, and Peonies," by Wilhelm Miller. How Professor Sargent's idea can be adopted by people of moderate means.

"Growing Strawberries by the Sea," by Martha Prentice Strong. One woman's scheme which outwits the birds and other destroyers of ripe fruit, and yet possesses great decorative possibilities instead of being a disfigurement.

"A Backyard Garden that is Different," by C. F. A. Seidhof.

"Bees in the Greenhouse," by D. Everett Lyon.

"The Garden Manual for 1912," by Thomas McAdam. Four pages of practical, pertinent, condensed advice on the conduct of flower, fruit, and vegetable gardens, and home grounds. How to get greater satisfaction through greater simplicity.

"What Twenty-five Years Have Done for One Country Place," by Flora Lewis Marble.

"An Italian Garden in Miniature," by Cora Parker.

"Alluring Fraxinella," by Thomas McAdam. A plant of mystery which emits a flame from the flowers and looms spectrally in the moonlight.

## Navajo Indian Rugs direct from weaver to you

at one-half retail prices!

To you who delight in decorating your home with beautiful, out-of-the-ordinary things — to you who admire the soft, rich coloring, the hand-woven texture and the uncommonness of design in the genuine Indian rug — here is news:

For 15 years I have been selling genuine Indian rugs direct from the Indian weaver to the customer. I live out here among the Indians themselves. I inspect and select personally every rug I sell. I personally have in my employ some of the most expert weavers from families famous for generations for the perfection of their rug work.

Every rug I sell is woven entirely by hand from pure native wool, hand clipped and hand cleaned by the Indians; then hand-spun on primitive spinning wheels, and dyed in primitive fashion by that slow, painstaking process which gives the genuine Indian rug its rich, lasting colors. I am so confident that, when you know them, you will be eager to have these rugs in your home that I make this

### Special offer, to get you acquainted

The rug illustrated is one of a small lot of the finest genuine Navajo rugs I have ever secured — every one the handiwork of an expert Navajo weaver living 80 to 90 miles from white man's civilization. No two rugs are alike (the Navajo abhors an imitation) but this illustration is typical of the lot.

The ground color of each is a rich dark natural gray (no dye), with the Navajo design softly woven in harmonious shades of dark rich red, black and white. A few have no red at all; just the natural colors. As the patterns go clear through, these rugs can be used either side, and are easily cleaned.

They last a lifetime, and the colors grow even softer with age. Sizes 40 x 60 up to 50 x 70 inches. My regular marked price for these splendid specimens of Navajo handiwork is \$30.00 each. As a special inducement, to introduce

I will send you just one for only \$18.90. And I will prepay all shipping costs. If you are not more than pleased, send it back at my expense, and I will refund your money immediately; all the profit and the risk is mine. Every Navajo Rug I sell is positively the genuine, hand woven article; I sell no other sort. Each bears my warranty, under seal.



Foot: Send for my beautiful free display book showing Indian Rugs in real colors, with descriptions and special weaver-to-customer prices. It also explains my plan of weaving rugs to order to fit any scheme of decoration. Write today.

THE FRANCIS E. LESTER CO.

Dept. H-2-R

Mesilla Park, New Mexico

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PRE-EMINENTLY THE PIANO OF AMERICA



THE world of music long ago conceded to the Starr Minum Grand its proud position as the best of all the small grand pianos. But improvement did not stop there. It has gone forward until today the Starr Minum Grand knows no superior, large or small.

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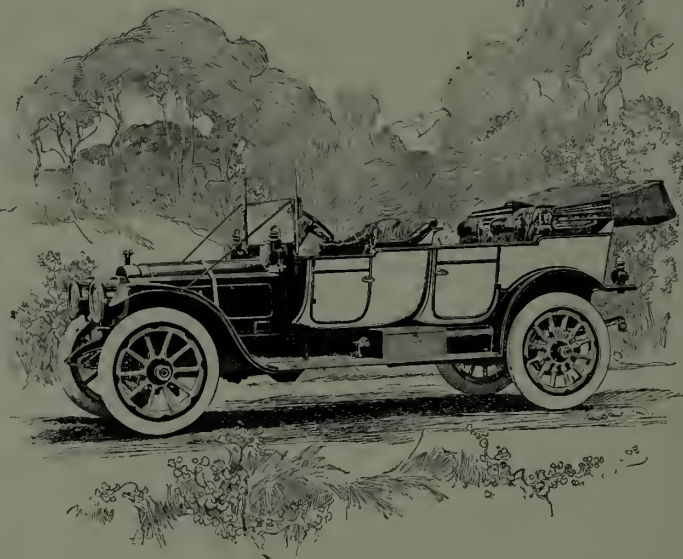
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CINCINNATI, 139 Fourth Avenue, W.  
CLEVELAND, 1220-1224 Huron Road  
DAYTON, 4th and Ludlow Streets  
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will have a body that is a unit, with one straight line flowing from the rise at the back into the curve of the dash. All entrances will be closed by doors, but the opening at the right of the driver will be closed entirely, the levers being placed inside. Nothing will appear on the running board, and the car will have the trim, graceful curves of a well designed yacht.

THE PIERCE-ARROW MOTOR CAR CO., BUFFALO, N.Y.

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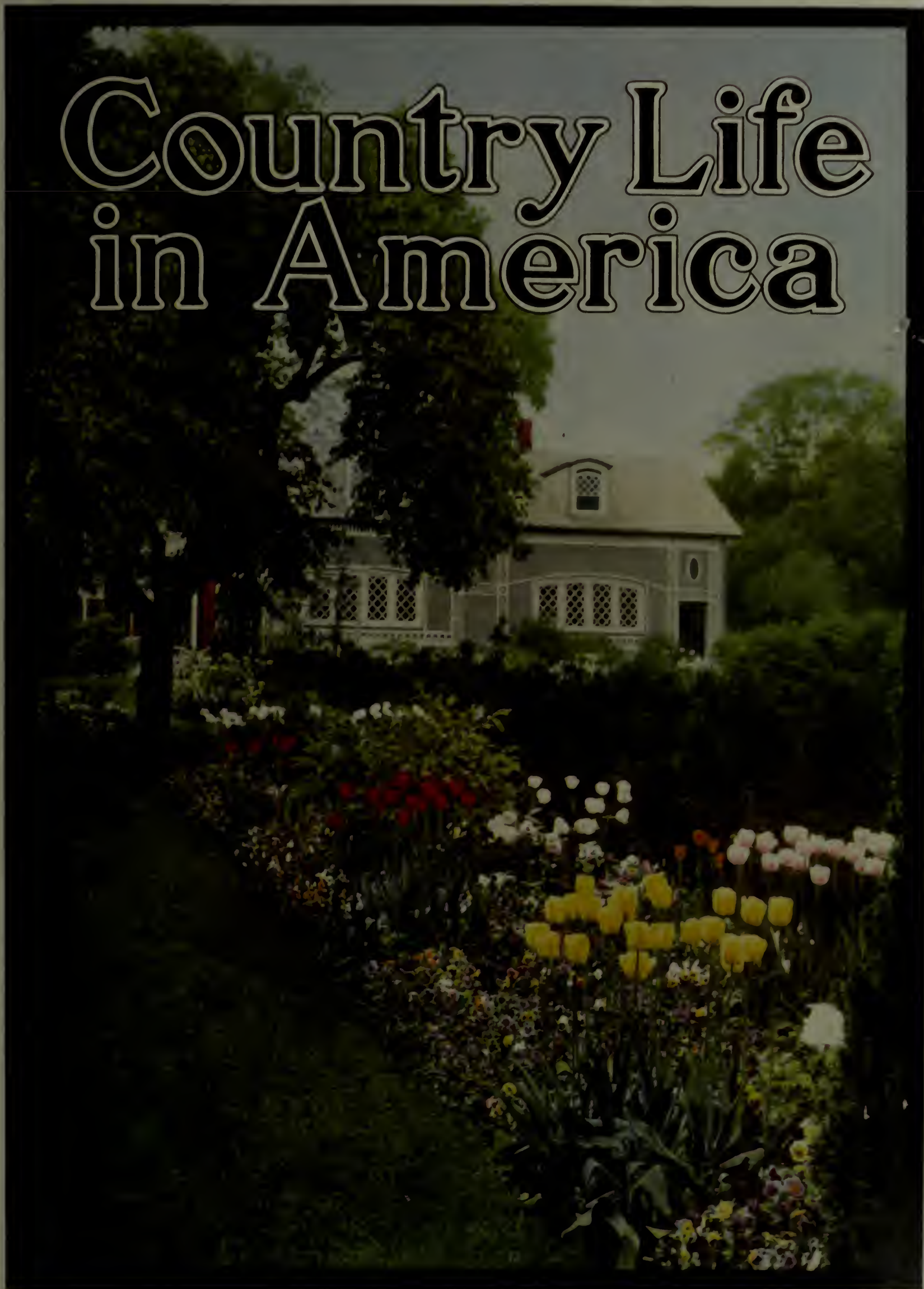
A Shilling in London  
A Quarter Here

FEBRUARY 15  
1912  
Vol. XXI, No. 8

The Annual Gardening Number  
Dahlias --- Garden Manual for 1912 --- Pergolas

Special Double Number  
50 cents, \$4 a year  
Published twice a month

# Country Life in America



THE GARDEN MAGAZINE  
-FARMING



DOUBLEDAY, PAGE & CO.  
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THE WORLD'S  
WORK

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Plan your planting now before the season opens. Begin by sending for catalog entitled "**Moon's Hardy Trees for Every Place and Purpose.**" It is a book that will help you with suggestions of what and where to plant. It describes the enormous assortment of trees and shrubbery we have, gives prices and tells how we will help you to get a more beautiful place, whether it be by planting hedges, a shrubbery border, a screen against an ugly view, an avenue of trees or whatever it may be.

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In planting a garden, whether large or small the initial cost of the seeds themselves is by far the smallest item of expense.

Good soil, with water and sun, will produce crops if the unknown quantity — that is, the quality — of the seeds proves also good.

The thousands of dollars that are expended each year by Peter Henderson & Co. in their exhaustive tests and trials are spent to reduce this unknown quantity to such a minimum that it is removed almost entirely.

In buying Henderson's seeds you are buying seeds that have been tested and tried and have been found up to the Henderson Standard, a standard which is not exceeded by any seed house in the world. In planting your garden it pays to start right and you can be sure that there is no unknown quantity in your garden if you use Henderson's seeds. Henderson's are tested seeds.

### SPECIAL OFFER

Our 1912 catalogue *Everything for the Garden*, a book of 204 pages, over 800 illustrations, color plates, etc., will be mailed on receipt of 10 cents. In addition we will send without extra charge our new book *Garden Guide and Record* and our collection of 6 Henderson's Specialties, in a coupon envelope which will be accepted as 25 cents on any order of one dollar or over.

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## Livingston's "True Blue" Seeds

are carefully selected to meet the requirements of the most critical. No efforts are spared to make them truly "Pedigreed." Large quantities of important American vegetable seeds are grown on our own farms while the most reliable European growers have standing orders to save the choicest for us. A careful study of booklets and catalog described below will demonstrate why "True Blue" Seeds deserve your confidence. Let these books show you how our seeds are grown and how you may get better results by planting them.

### Ohio Sugar Melon

illustrated above is one of our gilt-edged specialties. The sweetest green fleshed musk melon that grows. Of good size and appearance, with delicious thick and aromatic flesh. Shown in natural colors on page 9 of our Annual. Pkt. 10c; 1/2 oz. 20c; oz. 35c postpaid.

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is the title of free booklets shown alongside. Designed to help you get good results in the garden; they help us to explain our seeds and methods. Tomato, Onion or Specialty Booklet, — which do you want?

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### Ohio Grown Onions

are famed for their uniform size, brilliant skin and good keeping qualities. Our strains of seeds yield heavy crops of symmetrical bulbs. Our booklet "Profitable Onions" explains all—free! *Ohio Yellow Globe* is our leading specialty. The finest yellow globe Onion to date. Pkt. 5c; oz. 20c; lb. \$2 postpaid. Special prices on large quantities.

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A reliable book of truthful facts about gardening and seeds. 130 pages, 300 illustrations from photographs, honest descriptions and fair prices make it a trustworthy guide. Ask for your free copy.

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# Tire Cost—Where It Goes

23% is Due to Rim-Cutting—  
25% is Due to Overloading

We sent out men to look at thousands of ruined clincher tires.

And 23 per cent of all those tires were rim-cut.

Sometimes this ruin is the driver's fault. He runs the tire partly deflated.

It is usually due to a puncture.

A clincher tire which goes flat may be wrecked in a moment—ruined beyond repair.

On the other side, note this:

No-Rim-Cut tires are more widely used than any other make of tire.

Men know they can't rim-cut, so they get more abuse—more under-inflation—than any other tire that's made.

But, despite all this neglect, we have never had an instance of rim-cutting in all the hundreds of thousands used.

Most tires are overloaded.

Not through any fault of the motor car maker. He equips for expected load.

But you add heavy extras.

And some of your passengers sometimes overweigh the expected 150 pounds.

The result is a blow-out.

That's why we make No-Rim-Cut tires 10 per cent over the rated size. The manner of fitting permits that.

That means 10 per cent more air—

Ten per cent more carrying capacity.

And that, with the average car, adds 25 per cent to the tire mileage.

Yet these tires which can't rim-cut—these oversize tires—now cost no more than other standard tires. That's why they outsell others.

## Average Saving, \$20 Per Tire

These two features together—No-Rim-Cut and oversize—under average conditions double the life of a tire. This judgment is based on 13 years of experience, with 800,000 Goodyear tires.

If that is so, this single invention is saving an average of \$20 per tire, figuring various sizes. On our output this year that will mean \$10,000,000.

Those figures, of course, are only approximate. One can't be exact on the cost of tire upkeep.

Proper care and inflation, roads, speed, loads, etc., all affect tire mileage.

But the figures are fair.

Certain it is that No-Rim-Cut tires save all the ruin of rim-cutting.

Certain it is that their 10 per cent oversize adds an average of 25 per cent to the tire mileage.

### No Extra Cost

These patented tires, when first brought out, cost one-fifth more than other standard tires.

Now they cost an equal price. Our multiplied output has cut the cost of production.

Note what that means.

No-Rim-Cut tires, 10 per cent oversize, cost just the same as old-type clincher tires. The saving is entirely clear.

You get all their advantages by simply insisting on Goodyear No-Rim-Cut tires.

### By Far the Leading Tire

Now note the judgment of users.

The demand for these tires has doubled over and over. It now exceeds the demand for any other type of tire.

Last year's sales on No-Rim-Cut tires exceeded the previous 12 years put together.

This year, 127 leading motor car makers have contracted for Goodyear tires.

That's the result of experience.

These tires have been tested by not less than 100,000 users. And that is the result of the testing.

Isn't that evidence enough?

### THE NEW GOODYEAR NON-SKID TREAD



Tough  
Deep-Cut  
Double-Thick

# GOODYEAR

No-Rim-Cut Tires

With or Without Non-Skid Treads

### Non-Skid Treads, if Wanted

Now these tires, if you want it, come equipped with an ideal Non-Skid tread.

Not any short-lived protection. Not a mere corrugation in a regular tread.

This is an extra tread, vulcanized onto the regular, so it gives you a double-thick tread.

This extra tread is of very tough rubber. And its thickness permits these deep-cut, enduring blocks.

The road surface is grasped by countless edges and angles—grasped with a bulldog grip.

Each block widens out at the base, so the strain is distributed the same as on smooth-tread tires.

One moment's comparison reveals a dozen advantages over any other non-skid invention. We have worked for three years to perfect it.

### The Final Tire

The tire of the future, beyond any question, will be this No-Rim-Cut type.

The old-type clincher—the hooked-base tire—is being displaced on thousands of cars each month.

After 13 years of tire making we consider this tire the best that we ever can make.

It is so close to perfection that our liberal warrant now costs us but a trifle per tire.

Rubber never can be made more impervious to wear. Fabric can never be made more enduring.

This type and this tire, in our estimation, represent finality in tires.

Our new Tire Book is ready. It is filled with facts, based on 13 years of tire making, which every tire user should know. Ask us to mail it to you.

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Manager Real Estate Dept., Country Life in America - 11-13 West 32d Street, New York City

NEW YORK



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NEW YORK



## A Beautiful Island Home On the St. Lawrence River For Sale Furnished

Have you not often wished for a summer home away from the noise and stir of the seaport towns, where you may have rest and quietness, with all the diversions of summer out-door life, fishing and golfing?

### THEN HERE IS YOUR OPPORTUNITY

To become the owner of one of the most beautiful islands in the St. Lawrence River, situated near Clayton, New York, in the chain of magnificent summer homes stretching to Alexandria Bay.

The island contains nearly four acres of ground, with retaining wall encircling it. It is well wooded, of natural growth. The house stands in the centre, land sloping gradually to shore line.

On second floor of the house there are six master rooms with three baths and two rooms for servants, with bath; on first floor, there are living room, den, dining room, kitchen and servants' dining room. Large porch on three sides. Other buildings include water tower, power house with gasoline engine and dynamo, launch and skiff houses, ice house and laundry. Servants' rooms and bath rooms, laundry and skiff house.

Two large docks—front and back—accommodating yachts of any size. Also launch, skiffs and canoes.

### ALL IN FIRST CLASS CONDITION — THIS OFFER INCLUDES ALSO

a farm containing nearly 100 acres, situated about one and one-half miles from the above described island; has all modern improvements, and well adapted to extensive dairying and truck-gardening, with splendid market for all produce.

There is a modern 7-room house on the farm, with furnace and all modern improvements, standing on an elevation which affords a fine view of the River and the town of Clayton.

There are also a good farm house, furnished; large barn, built in 1909; launch and skiff house, with large dock; creamery and granary.

Unexcelled spring water. Land in cultivation except about ten acres, which is forested with oak and maple.

Two good, gasoline, farm launches.

For further particulars address

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A most attractive, gentleman's country place in Long Island, lake and pine belt, Lake Ronkonkoma; statistically one of the three healthiest spots in the world. Stone and shingled house, attractively set among lawns, groves and gardens of 13 acres. Three living rooms, open fireplace, four master bedrooms; servants' rooms; bath and gas; stable; garage; chicken house, etc. Address

W. H. STUART

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### Saratoga Springs, North Broadway Cottage



THIS HIGH CLASS PROPERTY in most exclusive residential section FOR SALE at a low price. HOUSE, first story Quincy granite, upper stories frame, broad piazzas and porte cochere. Interior finish hard wood including floors. It contains reception hall in quartered oak with wainscot and paneled ceiling. Heavy oak staircase, drawing room, den, large dining room, butler's pantry, kitchen, servant's hall and laundry. 7 master's and 6 servants' bedrooms, 5 baths, 6 toilets, steam heat, large open fire places. STABLE, first story stone, frame construction above, large coach floor, coachman's rooms. PLOT, 100 feet front, 300 feet deep to street in rear. Inspection and correspondence solicited.

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Real Estate Brokers

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in most exclusive and fashionable section of the

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These sites have every essential feature for ideal homes, and can be secured at prices and on terms which now bring this class of property within reach of those who desire a water front place of the most select character. Let us send you full particulars.

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also

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\$50 PER ACRE

2 hours out. 1 mile of Express station, on State Road and bordering Railroad. 41/2 acres. Farm house 15 rooms, 5 farm buildings. Brook, springs, apple orchard and woodland.

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A gentleman's farm of 115 acres. Colonial Homestead modernized, surrounded by lawn and big shade trees, fine view. Manager's house and all farm buildings new. Excellent water supply and everything in perfect running order. Sold to settle an estate. Price, \$30,000.

also

In an infernal Park, 4 acres, elevation view, new Colonial dwelling 16 rooms and 1 bath. \$5,000.

5 acres, elevation view with access to I. I. Road, 3 minutes walk over private road. Dwelling furnished, 15 rooms and 2 baths. Electricity. Stable. Price, \$22,000. Rent, \$1,000.

Fruit farm 1 hour from N. Y. 12 1/2 acres, 1000 fruit trees and variety of berries. Stone house, 8 rooms and bath. Unlimited water supply Kewanee system. Fruit packing house, 4 farm buildings, large poultry plant. All in perfect condition. Price, \$11,000.

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A beautiful summer home in perfect repair. One of the most attractive at Shelter Island Heights, 1 mile by water from Greenport, Long Island, with excellent direct railroad communications from Greenport to the Pennsylvania Terminal, N. Y. City, 3 minute walk from the landing of the New York steamers and Greenport Ferry. Well shaded grounds, 300 feet water front. Large veranda. Spacious reception hall, parlor, music room, billiard room, dining room, butler's pantry, kitchen on main floor. 8 master's, 3 servant's bedrooms, 2 baths and toilet facilities. House equipped with modern conveniences, including gas plant and furnace, 8 open fireplaces. Large airy cellar, with laundry and store room. Excellent bathing beach, 2 yacht clubs and 2 golf clubs within easy reach. Good markets and a first-class garage conveniently located. Balmly salt air, pure drinking water and modern dairies make Shelter Island an ideal place for young children. Full particulars of COUNTRY DEPARTMENT, of

PEASE & ELLIMAN

340 Madison Ave., N. Y.

OR RALPH DUVALL

Shelter Island Heights, Long Island

Scarsdale Estates advertisement with decorative border and central image of a house.



This beautiful home in Scarsdale, N. Y., must be sold to settle an estate. Six bedrooms and three baths on the second floor, large hall and living rooms on the first floor, unique garden room with glass front on to formal garden, toilet, servants' sitting room and laundry on ground floor, 100 ft. front, nearly half an acre on the corner of Old Orchard Lane and Church Lane, in the older section of Scarsdale. Two other interesting homes at Executor's sale. A large list of suburban homes in Westchester County.

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The house occupying this corner may be yours. It is, architecturally, an excellent example of the most commodious Colonial and was built for the owner's residence.

The situation is high and healthful and only five minutes' walk from Kew Station on the Long Island Railroad. Frequent electric service to Pennsylvania Terminal. The house has a very dry cellar, with laundry and toilet in the basement; four rooms, pantry and kitchen on first floor; four bedrooms and bath on the second floor, and two master's and two servant's bedrooms and bath on the third floor. There are open fireplaces on the first floor; parquet and hardwood floors, electricity and gas.

Hardly a better location for a home and hardly a better home is ever available to any one living in or near New York City. Write or apply

Room 31 Hotel Irving 26 Gramercy Park New York City



Front of House Showing Attractive Setting and Southern Exposure

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Comprising All The Attractions That Go To Make Life In The Country Delightful

Situated between Scarsdale and White Plains, in the best residential section. 1½ miles from Station. Eight and one-half acres of high ground. Colonial house, beautifully finished, with hardwood floors, etc.; 19 rooms, five baths, electric light, gas, hot water heat and all improvements of the most modern type; extensive lawns, well equipped greenhouse, flower and vegetable gardens, tennis court and gardener's cottage; fine stable, finished in hard wood; four box stalls, three straight stalls; hot water heat and all conveniences.



For further  
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10 minutes from R. R. Station and 35 minutes from Manhattan. For particulars regarding this and other properties on the North Shore, write to  
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Apply to Jeremiah Robbins, Babylon, Long Island. Telephone 22

#### THIS RESIDENCE

of stucco finish and cut stone foundation is sure to attract attention; 4 piazzas first and second floors, all looking out upon the Hudson River; 7 bedrooms, 2 baths, fireplaces. Price LOW. Cash required \$4,150, balance permanent mortgage at 5% BUILT BY DAY WORK.

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Phone 1501 Murray Hill 331 Madison Ave.

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Estates, Shore Fronts, Farms and Acreage  
at very attractive prices

All inquiries receive prompt and personal attention.

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Huntington, L. I., and 220 B'way, New York

#### The Connection

If your purpose is to purchase a house or to build in Mt. Vernon or any other part of Westchester County, make this office the connecting link. We are in a position to be of very real service. Write

The Oliver Hubbard Co.  
13 South Third Ave. Mt. Vernon, N. Y.

Between a person and his objective—there is often a gap to be bridged—a connection to be made.

#### For Sale at Fishkill-on-Hudson, N. Y.

A beautiful place overlooking the Hudson, two and a half acres, large house all modern improvements. Tenant house, barn, greenhouse; place a mass of flowers in spring and summer thousands of tulips and daffodils, plenty of fruit. Fine view of Hudson, ninety minutes from New York via New York Central R.R. Photos if you wish them.  
SPY HILL, 33 Ferry Street, Fishkill-on-Hudson, N. Y.

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\$18,000 cash, balance mortgage if desired—will purchase \$55,000 gentleman's ideal all year round home, with one acre of property. Unusually attractive house and grounds with heated garage and stable. To duplicate property, house, etc., would today cost more than \$75,000. 28 minutes from Grand Central Station. Call or write for full particulars.

ANDERSON REALTY CO.  
Near New Haven Station, Mount Vernon, N. Y.

#### AT BELLE TERRE ESTATES

Long Island

#### TO LET, FURNISHED, FOR SEASON OF 1912

A modern stucco house, up to date in every respect, and situated on a knoll commanding an extensive view of Port Jefferson Harbor and Long Island Sound. The house has three floors and a basement, wide verandahs and a porte cochère. There are five masters' bedrooms, a dressing-room and three servants' rooms. There are three bathrooms. Large fireplaces in living-room, and in two bedrooms. Kitchen, servants' dining room, and laundry are complete in every detail. The property consists of 4 acres, with 420 ft. water-front, and has a private dock and garage. Use of small cat-boat, row-boat, and two canoes. Belle Terre Club-house, with tennis-courts, golf-links, etc., within a few minutes' walk.

Write STEPHEN YATES 146 East 34th St., New York



MONTANA

MONTANA

#### Come To Judith Basin, Montana

Here in a succession of valleys are over a million acres of the most fertile and highly productive

wheat and alfalfa lands in the West. A third of that million is open to land seekers, the other two-thirds is settled and under a high state of cultivation, and without irrigation.

40 bushels of winter wheat, 18 of flax, 100 of oats, 45 of barley, 400 of potatoes, 5 to 7 tons of alfalfa and 1 to 2 tons of clover an acre, are a fair average for a normally good year. There have been no years when the crops were poorer than half these figures—and half is better than the harvest averages of other sections of the country. Failure never known.

Excursions from all Points. Judith Basin won Winter Wheat Prize at New York Land Show. 75 bushels to the acre.

A farm keeps you in clover, pays its cost of maintenance and pays for itself in two or three years. Write for booklet.

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#### 600-acre Farm, \$4,800

With only 50 of the 600 acres in cultivation last year the owner of this farm raised produce valued at \$2285; the 550 acres are in heavy timber, which can be cleared at a profit and leave a great area of finest tillage, main public road runs through farm; only 4½ miles to manufacturing town, railroad and deep water transportation; 4-room cottage, barn, stable, 3 tobacco barns; if taken now only \$4,800, part cash. For full details and travelling directions to see this and many other good farms in North Carolina, Virginia and other Southern States, see page 20 Southern Edition Strout's Farm Catalogue 35, just out, copy free. We pay buyer's R. R. Fares.

Station 2717, E. A. Strout, 517 Lithia St., Greensboro, N. C.

RHODE ISLAND

#### RHODE ISLAND

Very desirable Bungalow and Cottage Sites For Sale on Narragansett Bay convenient to Narragansett Pier and Newport and adjoining a very safe private surf bathing beach.

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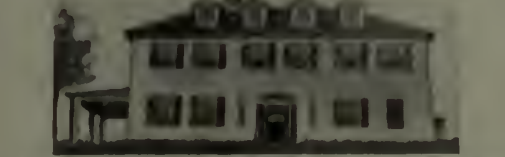


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CANADA



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The island contains about 31 acres, 25 acres of excellent timber with delightfully placed walks to various points on the shore, the westerly perimeter of which is more or less rocky, while the easterly portion consists of about a half mile of sandy beach, 5 acres of lawn around the residence of 30 rooms. Caretaker's cottage, 12 other buildings, tennis courts, etc.

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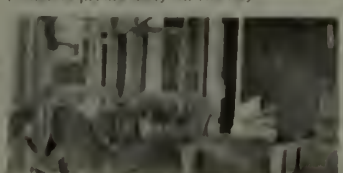
ATTRACTIONS

Shoal water to the south with sandy beach offers excellent bathing, while bay and other fishing abounds in the neighborhood. Altogether it is an excellent location for motor boating, sailing, rowing, shooting, fishing and all other sports and pleasures which make a summer along the lake fascinating.



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Cheviot Farms, R 22, Cincinnati, Ohio

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Won at New York 1911. Our Pullet "Palace Queen" won 1st and Shape Special Grand Central Palace and two weeks later 1st and Color Special at Madison Square Garden.

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Baby Chicks are our specialty. Genuine Newtown stock guaranteed. We ship strong, vigorous, healthy chicks that go and do well anywhere. Many shipments made safely to the far west and Pacific Coast points. Strongly fertile Hatching Eggs at reasonable prices. Write for particulars on Breeding Stock. Ask for Poultry Catalog C. L. A.

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Imported and American bred, of the highest type and quality. Stock for Sale and

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into a strain of Heavy Laying Exhibition Stock. We specialize on

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Do you want to own some of the best Barred Plymouth Rocks in the country? Do you want birds that will lay and that can win in any show? My birds have been the principal winners at Madison Square Garden, Cleveland, Baltimore, Williamsport, Camden and other large shows the past season. My mating list tells all about them. Eggs for hatching. Stock always for sale.

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50,000 Single Comb White Leghorn Chicks! And every one hatched under ideal conditions—every one a vigorous, healthy, liveable, strongly bred chick. They are destined to make great birds; the mother of every one of them laid more than 175 eggs in her pullet year; most of them laid more than 200 eggs! If you want eggs next fall and winter pick your layers from this lot of youngsters. Our hens have had the habit of laying for many generations. The pullets you get from these 50,000 chicks will be like their mothers. They are bred and hatched on a dollar and cents basis. Utility is our measure of a hen's worth. Every chick is from this heavy laying strain. "Drones" cannot be tolerated, and are not. They would ruin us. We use over 250 trap nests and know exactly what our layers are doing. Let us tell you about

## THE PEERLESS FARMS

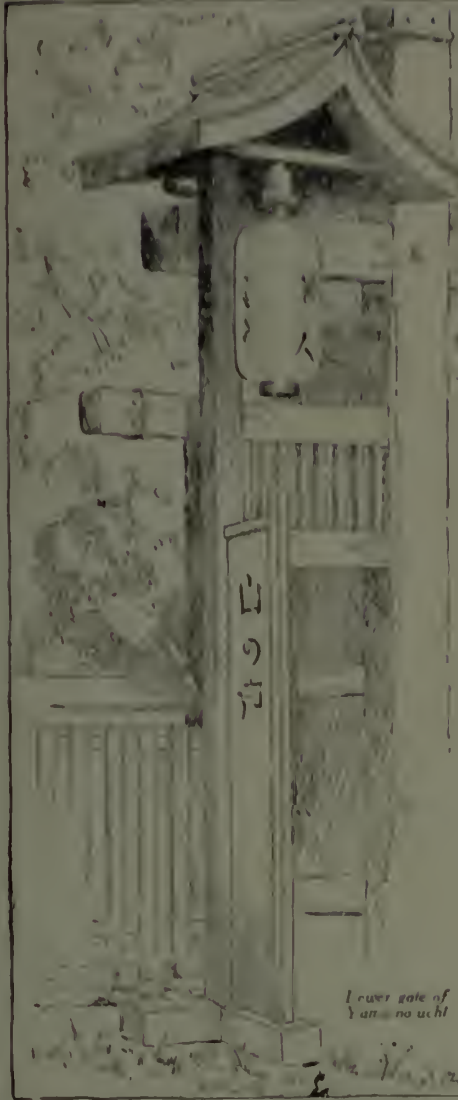
How They Hatch and Raise Chicks That Make Better Hens Than Any Others

Our hens are kept healthy; they are properly fed. Their eggs are fertile. They are big egg producers. Therefore, to start with, the eggs contain the possibility of the kind of chicks you want. Perfect conditions of incubation are maintained so that the chicks come out of the eggs ready to live, and do so at a profit to their owners. The moisture and ventilation of our incubator cellar is under positive control. By the use of the U. S. Weather Bureau Standard Psychrometer we know the exact moisture condition every minute. We do no guessing. The ventilation is forced, and, like the moisture, is exactly maintained at the most favorable state at all times. Buy day old chicks from the Peerless Flock. They are the best you can buy or hatch. Don't try hatching your own chicks until you have established your flock on a Peerless foundation. It will pay you to do so. We are making money. We can help you to do the same. We have a money-making strain of a money-making breed. Let us tell you more about Peerless chicks. Write today for new booklet. It's worth having.

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Alden I. Rosbrook, Prop.

R. F. D., No. 8 Northport, Long Island, N. Y.



Leaves gate of Yama no Uchi

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SEVERAL years ago, after thoroughly and scientifically investigating the different breeds of chickens, we decided that the Minorca was the most desirable—

*First—because of the beauty of the bird itself.*

*Second—because it lays the largest hen's egg known, and attractively white-shelled.*

*Third—because it lays not only the largest eggs but is among the heaviest layers.*

*Fourth—because its weight and extra long breast bone, providing an unusual amount of white meat, make it especially desirable for the table.*

We bought the best breeding stock to be had and have developed the Yama Single-Comb Black Minorcas—high-stationed cocks that weigh 8½ pounds and upward, and hens 7½ pounds and upward—extra heavy layers of large white-shelled eggs.

The fact that we have been successful is demonstrated by our First Prize for a pen at the Madison Square Garden in December 1910, and again with entirely different individuals, a First Prize for a pen in 1911, with other prizes for first Cock and second Hen, etc.

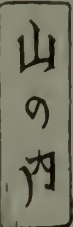
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Guaranteed to reach you in good condition

You can't count your chickens before they are hatched; so why bother with setting hens and incubators? Let me assume all the risk. I will send you by express, healthy, sturdy Fishel Strain White Plymouth Rock Baby Chicks, utility or exhibition; also Fishel White Indian Runner Baby Ducks. Order now, as winter hatchings are the most vigorous. Prices reasonable and satisfaction assured. Send 6 cents for my splendid chick catalog.

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Eggs for Hatching and Splendid Stock for Sale. Illustrated catalogue free.

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Hoff's Day-Old Chicks Are Hatched Brim Full of Vitality, and Are Bound to Live and Grow.

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Chicks Free from White Diarrhoea

I also have S. C. White Leghorn Eggs for hatching. Write for my reasonable prices on chicks and eggs

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The kind that live and grow fast. Shipped safely any distance by express. Also eggs for hatching from Barred and White Rocks and White Wyandottes.

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Winterthur Farms, Winterthur, Dela.

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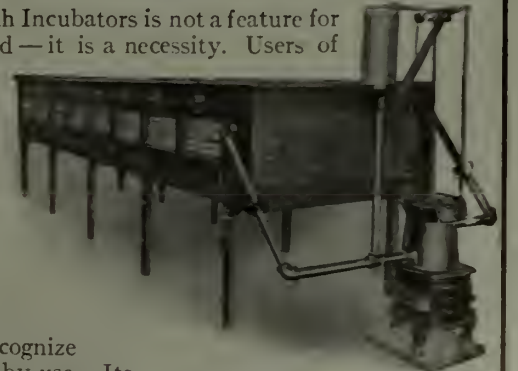
The sectional principle of the Hall Mammoth Incubators is not a feature for rare or exceptional cases of additions wanted—it is a necessity. Users of Hall machines succeed. They must have room for enlarging—expanding—their business. "Hall makes success."

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ARE THE BIGGEST PAYERS Because THEY HAVE PROVEN TO BE THE BIGGEST WINTER LAYERS



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First Prize Winner at New York, Chicago, St. Louis, Kansas City and Jamestown Exposition

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Are the GRANDEST UTILITY birds on record today, and as to their FANCY QUALITY they won first at Madison Square Garden, New York, 1905, 1906, 1907, 1908, 1909, 1910; also at Crystal Palace, London, England, and Chicago and Boston. If you need some birds to IMPROVE YOUR STOCK or for the SHOW ROOM write us. We have them, and the KIND THAT WINS, as our past record shows. STOCK and EGGS for sale at all times. Remember, we are the ORIGINATORS of "CRYSTAL" White Orpingtons, and breed only the one kind. We devote our whole time to this one breed.

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Mammoth Imperial Pekin Ducks

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At New York

- 1st on Old Duck
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- 2nd on Young Drake
- 2nd on Pen of Ducks
- 4th on Old Drake

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- 1st on Old Duck
- 1st on Pen of Ducks
- 2nd on Young Duck
- 3rd on Old Drake
- 4th on Young Drake

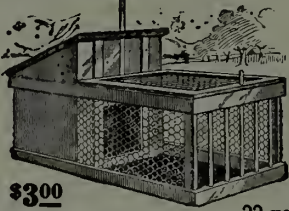
Get your stock of Afton Farm Mammoth Imperial Ducks. It is the quick growers and big layers that make money. Remember, the Afton Farm strain wins the prizes, tops the markets and are big layers. They are always healthy and vigorous.

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For a hen and her chicks and while she is sitting. Gives protection from rats, skunks, hawks, and other enemies. Insures larger hatches—fewer broken eggs. The runway is 20 x 24 inches. This coop is just the thing for colony raising and has proved its success for 22 years. Shipped knocked down. Size, 2 x 4 ft., 2 ft. high.



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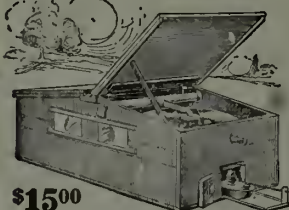
Fitted complete with nests, fountain and feed trough. Sanitary. Easily cleaned and aired. One man can easily raise several hundred birds. Nicely painted. Can be put together in fifteen minutes. Winter or summer the stock is always comfortable. In stormy weather the run may be covered at top and sides, giving protection and scratch room. Size, 10 x 4 ft., 5 ft. high.



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about dogs which they may desire

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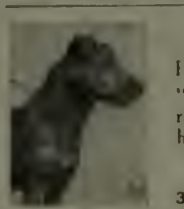
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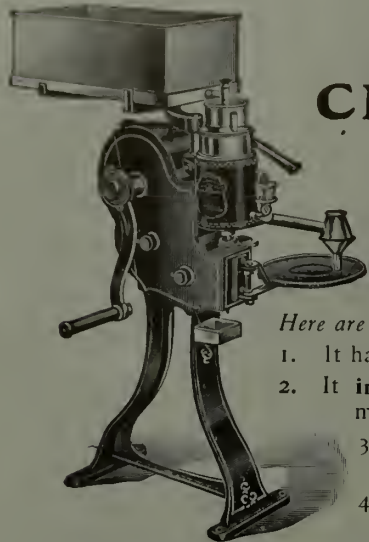
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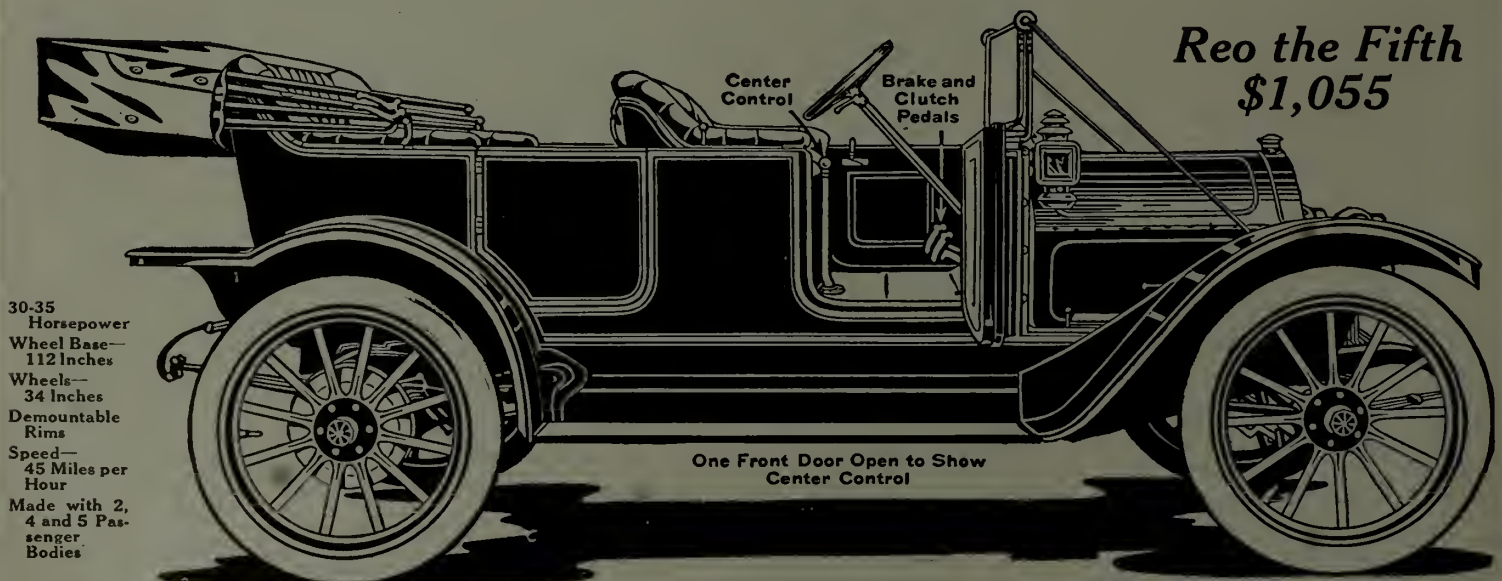
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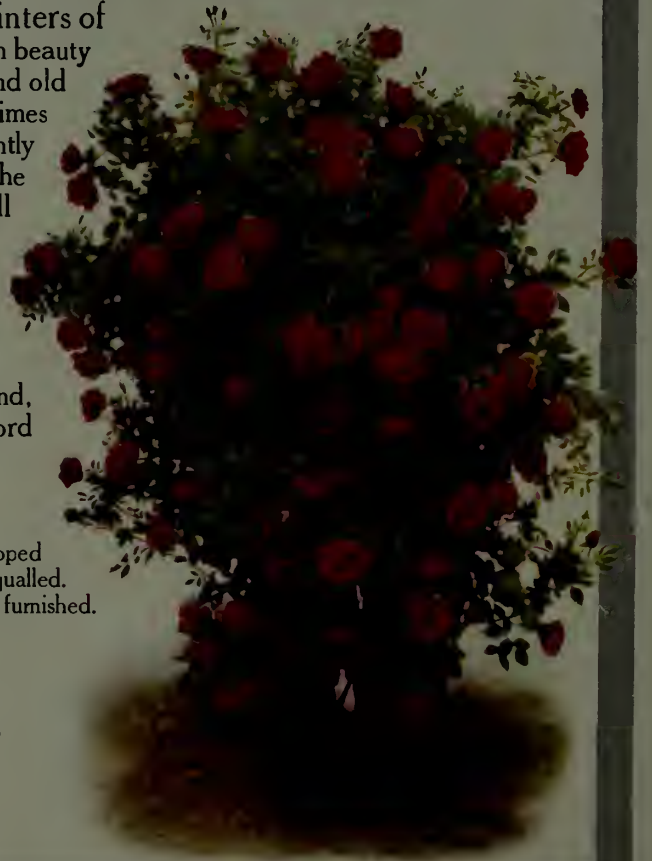
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Book Reviews, etc., etc.

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THE POETIC MOMENT IN THE SARGENT SPRING GARDEN, WHEN THE LILACS AND IRISES ARE IN FULL BLOOM. ANY ONE CAN PLANT A FEW LILACS, IRISES, AND TREE PEONIES, AND PRODUCE THIS SAME EFFECT ON A SMALLER SCALE (See page 35)



# COUNTRY LIFE IN AMERICA

VOLUME XXI—NUMBER 8

February 15, 1912

PRICE, 50 CENTS  
\$4 A YEAR POSTPAID



1 The gravel cross-path looking north, with the westerly border of the path in the foreground, showing the iris, tulips, and fillers of spring-blooming perennials

## A SUBURBAN GARDEN SIX YEARS OLD

HOW A HOUSE WAS FRAMED, A LAWN ENCLOSED, A STABLE SCREENED, A SHADY WALK ARRANGED, AND A FLOWER GARDEN AND SHRUBBERY BORDERS PLANTED TO GIVE SPRING AND FALL BLOOM IN HARMONIOUS COLORS

By MARIAN CRUGER COFFIN

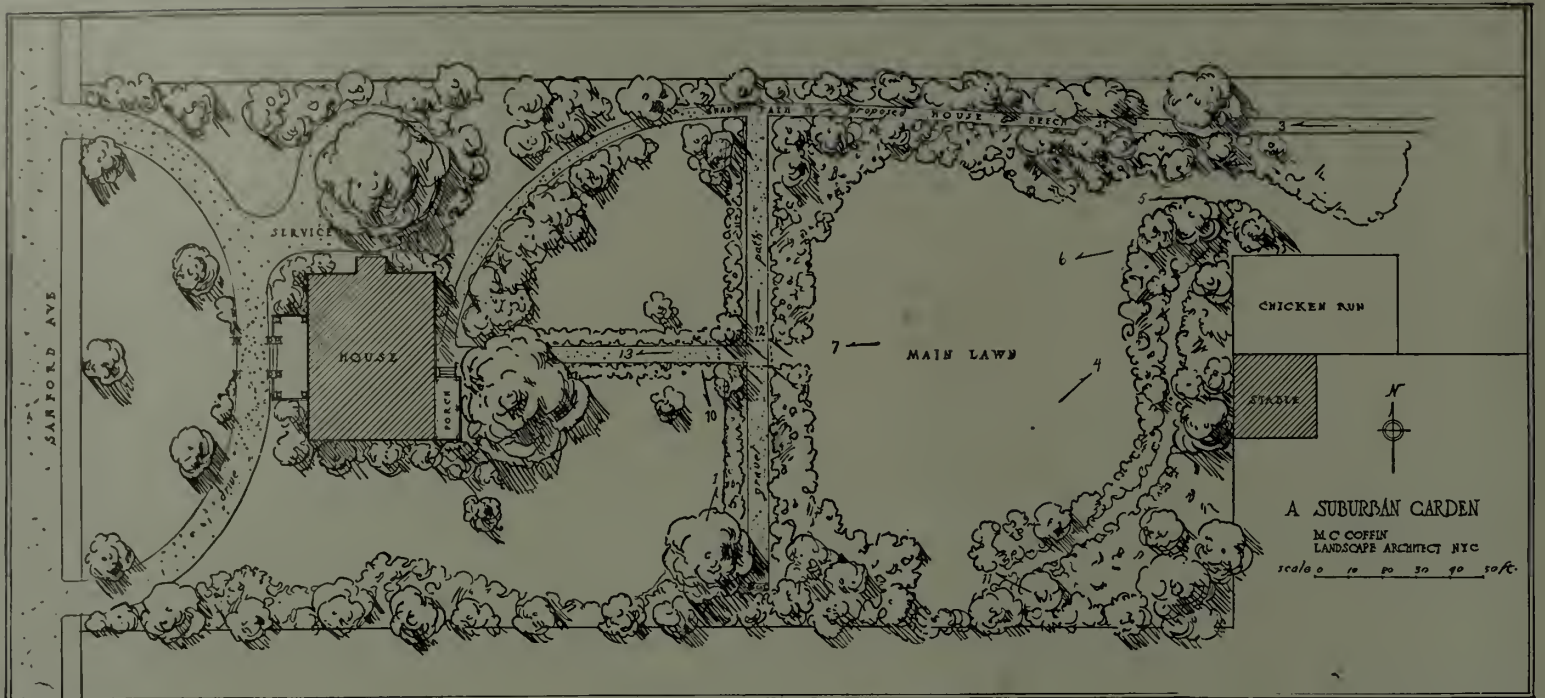
Photographs by W. H. WALLACE

HOW often one hears the exclamation, "I wish I could have a garden, but I want a really beautiful one, and of course it is hardly worth while trying to do anything with our few hundred feet of suburban yard. How can it be made even attractive with no fine background, extended views, or even good trees? One can have a flower or two for picking, to be sure, but these do not constitute a garden in the real sense of the term."

But is it so impossible? With careful thought and planning and within certain restrictions, no. We certainly cannot create a magnificent view, but we can plan and plant beautiful screens and backgrounds that will be interesting at all seasons of the year. We may not easily be able to construct a picturesque diversity of ground



2. Six years ago, when the soil was first prepared for lawn and borders. Looking east from about the centre of the lot



The figures correspond with the numbers under the photographs and indicate the spot where they were taken. The arrow indicates the direction in which the camera was pointed

level, but we can so plant as to have much height and variety in our flower and shrub groups. We may have no rocky coast, wide expanse of lake, or pretty little brook to give character to our grounds, but this need not deter us from introducing water in the form of a well designed pool or basin, while even a humble barrel, sunk in some out-of-the-way corner, may be arranged as the *pièce de résistance* of a modest bog garden where one or two of the fine aquatics may be induced to unfold their lovely petals.

To make a suburban garden attractive, the same principles must be observed as in designing any other garden; that is, the design must be in scale not only with the house and grounds but also with the means and taste of the owner.

A garden that is well planned, well constructed, and well kept up is a luxury, but a luxury that need not be beyond the means of even the moderately well-to-do, while a fairly large and handsome one, as here described, can be laid out and maintained at a much lower cost than the initial expenditure and annual upkeep of a moderate-priced touring-car.

The garden shown in the accompanying plan and illustrations was laid out six years ago, and in that time has practically come to its best. The property lies in the pretty village of Flushing, Long Island, with a frontage of approximately 170 feet facing west on Sanford Avenue. The house, a good example of comfortable suburban architecture, stands about thirty feet back from the street. A short drive sweeps in from the avenue, passing under a porte cochère hung with climbing roses and clematis, connecting at the north, or service side of the house, with the kitchen road and turn.

When the improvements were begun, the lawn bordering Sanford Avenue was in good condition and possessed a few fine specimen trees, such as *Euonymus alatus*, pink dogwood (*Cornus florida*, var. *rubra*), the silver bell (*Halesia tetraptera*), and Japanese umbrella pine (*Sciadopitys verticillata*), well planted in relation to the house.

With the exception of adding some appropriate shrubs to the base-line of the house, this part of the property was left untouched, not even a hedge separating it from the



3. Looking west along the shady path from a point near the gravel cross-path



4. Looking northeast across the mixed border at the rear of the garden. Chicken yard at the right



5. Looking west along the north side of the main lawn, showing perennials, shrubs, and trees

street, as the owner wished the passer-by to be able to enjoy some of the beauty of his grounds.

As the living portions of the house lie to the south and east, the logical development of the garden was in these two directions. An additional reason for this development was that from Sanford Avenue, on the west, the ground falls gently away to the east, thus insuring almost complete privacy from the street.

The eastern boundary, about 350 feet away from the front property line, is formed by a high board fence (now overgrown by honeysuckle) extending about three quarters across the lot. The remaining quarter runs still further east to the next street; this strip of land is large enough for a small building site and may eventually be built upon by some member of the family. Just behind the board fence is an old stable on the adjoining property which was a rather prominent and unsightly object in the view.

In taking up the problem the first step was to ascertain the wishes of the owners, the second to see that they were, as far as possible, put into execution.

These requirements may be briefly summed up as follows: To have a simple, informal treatment of the grounds which should be so screened by trees and shrubs on the north, south, and east that they would afford complete privacy. To have one large, open lawn, framed in by masses of

foliage and flowers, which should be at once the centre of the picture, a general gathering place for the family, and a playground for the children. To have some minor stretches of greenward also framed in by varying and appropriate planting. To preserve and feature in the design the few old trees existing on the property — about the only assets from a pictorial standpoint. To construct some good gravel paths as connecting links between the house, the main lawn, the flower borders, the service yard, and the lot on Beech Street. This lot has been temporarily left unimproved and is at present used for chicken houses and runs. Here, too, are the coldframes, the compost heap, and other useful but not decorative adjuncts to a well conducted garden. Last but not least, to arrange the planting so that there shall be

a succession of bloom from the first snowdrop of spring to the last chrysanthemum of autumn, not neglecting some winter show from color of twig and berry, but taking into consideration that the family are away in the middle of summer and that the finest effects must therefore begin and end the season. Succession of bloom is not the only problem in this garden where the planting scheme and color scheme have gone hand in hand; each mass or group of flowers and shrubs (for nearly everything is grown more or less in masses) must not only look at home, but also be in happy relation of form and color with its neighbors.



6. Looking west toward the house from the east end of the newly seeded lawn



7. Looking west toward the house from the intersection of the two main paths, showing the iris on the cross-path, white lilacs and tree peonies at the centre, and herbaceous peonies (not yet in bloom) straight ahead. This picture also shows how advantage was taken of the few big trees near the house



8. Looking south along the cross-path. The iris border and blue border just after planting. (See No. 10)



9. Before planting. The house is at the extreme left. The neighbor's house, directly in front, was partially screened. (See No. 11.)

The pictures taken from positions 7 and 13 show the straight path leading from the living porch on the east side of the house directly to the main lawn and connecting with the wide walk running between the chief flower borders. This is known as the peony path, as these lovely and showy flowers of June border it on each side, while blooming with, and spiring up between them, are the nodding bells of the rare citron lily (*Lilium colchicum*, var. *Svorzianum*).

The best of the early white phloxes, Miss Lingard, makes a fine display the end of June behind the peonies, while a later white variety is interplanted with it for early autumn show. As may be seen in the picture, the intersection of the two paths is marked by tall standard white lilacs, with the early blooming tree peony (*Pæonia moutan*) at their base. This pink and white coloring in May is intensified by the dainty picotee tulip and the starry blossoms of the poet's narcissus (*Narcissus poeticus*). A good strong line of garnet red chrysanthemums bloom on each side of the path in November, while beside the main masses of these perennials there is room for more ephemeral effects from such

annuals as mignonette and deep red asters. Although annuals are grown in various positions they are intended chiefly for late bloom, it being, of course, more important to have the borders gay in autumn than when the family is away in July and August.

Pictures from points 10 and 12 show the principal walk flanked on each side by wide flower borders, ending to the south under a big linden. Here on the comfortable garden bench one can sit in the shade and enjoy the masses of flowers on either hand. The other end of this walk where it joins the shady path to the north may be seen from picture No. 1. The photographs were taken when the pearly white iris were in bloom. This flower in all its varieties is a special favorite with the owners, and this border, eight feet wide by about one hundred and fifty feet long is practically given over to its cultivation. The first of the iris to come into bloom is the German, beginning about the middle of May. In June come the dainty blossoms of the Spanish (*Iris Xiphium*) in their yellow and smoky

(Continued on page 64)



10. Looking south along the cross-path to the seat beneath the linden. In the foreground is the iris border; the blue border is across the path



11. Looking northwest across the lawn from the bay in the southerly border. Note how the planting produces the effect of varied elevation



## IS THE DAHLIA WORTH WHILE?

ITS VIRTUES AND FAULTS AS A GARDEN FLOWER, AND AN EXPLANATION OF ITS POPULARITY AMONG CONNOISSEURS

By LEONARD BARRON

Photographs by NATHAN R. GRAVES

South. No mean plant, then, is this, which survives on its merits as a plant of the backyard and of the rural home.

Its uncertainty in relation to the weather is counter-balanced by the big fact that it does not need an expert horticulturist or a trained gardener to produce, in an ordinary way, the very best results of which the plant is capable.

The dahlia, indeed, is essentially an amateur's flower. It is not amenable to such remarkable improvements at the hands of the florist as are all of our other popular flowers. For this one thing alone the dahlia appeals strongly to the man who wants to get big results from his own efforts in his own garden. The cult of the dahlia has been kept alive, not by the professional florist, but by the country amateur, who has organized and supported, in little coteries here and there in various places, annual dahlia shows.

The case against the dahlia may be put very concisely thus:

It is a tender plant, except in the extreme South; the roots must be taken up at the approach of winter and carefully packed away under such conditions that they will be neither too warm, causing rot, nor too cold, causing death,

**I**S THE dahlia worth while? I think it is, despite the fact that it has decided limitations. You nurse the plants and grow them all the season for one great burst of bloom in the fall. Human nature is always interested in a gambler's chance, and assuredly that is what you have when you attempt

the cultivation of this flower; and as with other long chances, the results, when you attain them, are out of all proportion to the immediate efforts. The dahlia vies with the chrysanthemum as a claimant for the regal throne in our autumn garden. The latter claims its honors because of its stability; you can always depend on cutting armfuls of flowers. But with the dahlia, in those regions where gardens most prevail, there is always the ever-present uncertainty, the anxiety, the excitement of snatching rich jewels from the garden before Jack Frost comes upon us with one dire killing touch; for be it remembered that the dahlia succumbs to the first onslaught which will leave utterly unaffected her rival for the crown. But, given an extension of time and we have in the dahlia, in its multitude of colors, a material that affords the garden a harvest of richness, of intensity, of triumphant bloom such as it can yield indeed at no other period of the year from any other one kind of plant. Yes, indeed, the very element of its elusiveness has been, and ever will be, an incentive to its extended culture in our flower gardens. Its hold is no ephemeral thing; its tide of favor has had both ebb and flood, since the original prototype was brought to us a hundred and fifty years ago, but never in all that time has it been without its votaries and its enthusiastic admirers who ranked it far in advance of all other flowers of the garden.

Its grip is due not alone to its richness and purity of color, but also to its extraordinary variability, yielding new colors, new forms, and even new types in a degree that is paralleled only in the chrysanthemum among plants of the flower garden.

A native of South America, the dahlia reached us in the normal course of events, by way of Europe, and despite its present-day limitations, which are decided, it has found favor among the common people throughout our whole land from the Atlantic to the Pacific and from North to



Dahlia seedlings. Raising flowers from seed instead of bulbs is a genuine sport, with possibilities of securing astonishing results

nor too dry; they occupy a comparatively large amount of room throughout the entire spring and summer; they need a fertile soil and watering, pruning, and other attention; at the end you *may* reap a harvest of bloom, and inevitably the plants will be cut down in the full season of harvest by the first touch of frost.

All these things we grant, but we urge, on the other hand, that the results attained, nine years out of ten, under ordinary conditions, are an adequate return for the whole ten years; that the labor involved is grossly exaggerated, and that, in any event, everything that is worth while is produced at a price. Of course, if you don't like dahlias anyhow, you and I are moving in different orbits and talking a different language.

An extra count in the indictment that is sometimes put forward is that the dahlia is stiff and formal. Perhaps this was once partly true, but the last twenty-five years have seen a great change of which we are only beginning to realize the results.

In its early days the flower made its appeal to the fancy because it could be measured by mathematical formulæ; its outline was a perfect circle, its arched dome was perfectly regular, and its whole makeup was satisfying to the old-time fancy florist whose idea of beauty was a circle and who measured everything with a pair of compasses. Such was the old dahlia or Georgina.

The modern dahlia, as we commonly know it to-day, is a mighty different flower — of irregular outline, though perfectly balanced, on a reasonably long stem, and lending itself well to decorative purposes. A mere glance at the photographs which accompany these words will be sufficient to bear out this statement.



The Peony-flowered group is becoming increasingly popular for general utility



The most distinctive type of the new dahlias is the Cactus, with its long, narrow, rolled petals

With the introduction of the irregular type of flower (the Cactus) a new era dawned. The long, spidery petal, and the brilliant color of the original introduction (resembling that of *Cactus speciosissima*) assured its welcome, in spite of the fact that the flower was hidden away behind the foliage, on a stem barely two inches long.

Cultivation and selection soon remedied this defect, and although the strictly Cactus type of to-day, with the revolute petals and recurved tips, is still as a rule somewhat short in the stem, there were produced intermediate forms, on long stems, nondescript and unclassifiable, according to the old standards, but which (as Decoratives) ultimately have been the salvation of the dahlia and the cause of its renaissance in the favor of the American gardener.

What is at once a charm to the connoisseur and a source of utter bewilderment to the tyro is the present enormous number of varieties, which are added to year by year. Extreme variability is an inherent quality of the dahlia. New forms are constantly appearing in all collections of any size, and while fashion controls to a degree the chances of popularity of a newcomer, the changes are being rung without any great advancement in pure form. The dahlias of a hundred years ago were as good as those of to-day, excepting always, of course, those of the cactus and decorative types. The present tendency favors the less formal flower, because it is more useful and fits in better with our modern utilitarian standards.

Perhaps a brief statement of the different types and classes might be given.

*Show and Fancy.* Flowers double, globular; calyx lobes comparatively broad, the petals or rays wider than they are long and folded inward along their margins, arranged in perfect precision, so as to form a half globe with an even surface. This is the old,



The decorative type is intermediate in form between the Show and the Cactus. The petals are nearly flat.

original type. The Show dahlia, strictly speaking, includes all blooms of this form that are self-colored and all shaded flowers having a pale ground edged or tipped darker. The Fancy dahlia includes everything of the same general form, but striped or variegated, or with the edges or tips lighter than the ground. It is common practice nowadays to merge these two into the general title of Show dahlias.

*Pompon or Bouquet.* A dwarf replica of the foregoing, very compact in growth, free-blooming, and well adapted to flower garden use; also sometimes called German dahlia. There is also a Pompon Cactus.

*Cactus.* A quite distinct class, with the rays several times longer than they are broad, loosely and irregularly arranged, having a tendency to roll outward longitudinally and, in the higher types, with the tip sharply bent upward. The calyx lobes are comparatively long and narrow. Flowers, short stemmed; foliage narrowly cut.

*Decorative.* Intermediate in form between Show and Cactus. Petals flat, arranged with fair regularity; stems long. To the old-time fancier the decorative type is an abomination, but its intrinsic merits for practical purposes have given it the ascendancy in the New World.

*Peony-flowered.* A development of the Decorative, toward a more nondescript character. The petals irregular in form and arrangement, and often only half formed; the centre of the flower always more or less open. It is highly artistic and probably will become the dominant type in American gardens for general use.

*Single.* Having but one whorl of rays, making a flat, daisy-like flower, and including representatives of all preceding classes. The Twentieth Century group are extremely

large-flowered Singles of irregular and massive form. The one fatal defect of the Singles is their short life.

*Tom Thumb.* A miniature race of single-flowered dahlias attaining a height of only twelve to eighteen inches.

*Anemone-flowered.* A little-valued group having quilled florets in the centre with larger rays surrounding them, resembling in general appearance the Anemone-flowered Pompon chrysanthemum. The plant is of dwarf habit, but apart from its being different it has no distinct attractiveness.

*Collarette.* A group of somewhat freakish flowers, single, with one circle of well developed ray florets, and inside of that a circle of small, white or pale-yellow, tubular florets and a well defined yellow disc of the ordinary type. The plants are free blooming, and flowers are carried on long stems well above the foliage. The bizarre effect of the flower prevents its being really useful.

For all practical purposes we need consider but a very few of the foregoing types. Taken in order of their real utility I place them thus: (1) Decorative; (2) Peony-flowered; (3) Cactus; (4) Twentieth Century Singles; (5) Show and Fancy. We can, indeed, afford to discard all the rest, if we are looking to the actual use and pleasure that the flower can give us, apart from any appreciation of its merits from the standpoint of the connoisseur and the collector. With these latter the Show and Fancy, as representing the greatest perfection of form, and the Cactus, as embodying the greatest diversity of character and brilliancy of color, must ever dominate.

#### CULTURE OF THE DAHLIA

The easiest way to grow the plants is from the roots which are carried over from year to year, being taken up in the fall and stored in a frost-proof cellar over winter and planted out again the following spring. To the real plant lover this



The Quill or Show dahlia is the old, formal, original type. The flower is semi-globular

little bit of attention that they require adds the necessary touch of zest to their cultivation. Many people take the old roots, with all the newly developed tubers of the year, and replant them the following spring just as they are. There is no advantage in planting these large field roots; on the other hand the advantage of dividing is that you thus easily increase your stock of plants. The tuber must have a piece of the stem with a sprouting bud attached to it, as it does not possess eyes of its own like a potato. Tubers that are broken off without eyes attached are useless. The stock can be easily increased, too, by making cuttings of the young sprouts as they push up in spring.

Better still, start the roots growing in February or March in frames or hotbeds and take off the cuttings when they have two clear joints, planting them in pots and still keeping them in the frame. They root readily. You can hardly stop a dahlia from growing in the spring and propagation is perfectly easy; a second



When properly grown, so that the growth is bushy, flowers abundant, and stakes not necessary, the dahlia is well worthy of a place in the September garden

crop of cuttings may be taken from the old plants when the growths are again three inches long. The plants can be set out in the garden later, according to weather conditions.

Just when is the right time to put the old roots into the open ground is still a debated point. Many people plant as soon as they feel sure that the danger of frost is past—that is, early in May. Others defer planting until the latest possible moment—say the Fourth of July. My own best results have been with late planting. The argument in favor of this is that the plant, being put out late, is busy making growth all through the hottest summer weather and is ready to produce its flowers, in

perfection, as soon as the colder days of early fall arrive; whereas plants set out in early May are so far advanced as to be producing flower buds during the hottest spell of weather, when they become dried up, blacken, and fall. And as a result, before they can reconstruct themselves,

*(Continued on page 76)*



Another example of the Decorative type, with double-pointed petals



A modified Show type, approaching the Decorative





Simple topiary work at Bradfield Hall, England, showing the dignity of ancient yews, symmetrically arranged, and trimmed into relatively simple forms

## SIMPLE TOPIARY WORK

By HENRY MAXWELL

Photographs by THOMAS LEWIS and ARTHUR G. ELDRIDGE

THE trimming of trees has always been carried to excess and always will be. The Romans ran the gamut of fantastic forms. The Dutch revived topiary work in the time of William and Mary and their extravagances provoked a reaction which gave rise to landscape gardening.

Trimmed plants tend to be short-lived, and the trimming adds so greatly to the cost of maintenance that the system is a bad misfit in a country where labor is expensive and estates do not remain many generations in the same families. Trimming should, therefore, be reduced to a minimum.

The chief reason for the use of trimmed plants is to repeat architectural lines and forms. Repetition may not be as important an element in architecture as it is in music, but it is essential in all balanced, symmetrical design. The chief lines in architecture are the vertical and horizontal; the chief forms are the square and the rounded. Columns and chimneys are mimicked by red cedar, Lombardy poplar, and all fastigiate trees. Horizontal lines can be repeated by the top of any

hedge, or by the boxwood that outlines the paths of any garden. Rectangular forms can be reproduced by trimming Japanese yew or hemlock. Rounded forms occur little in domestic architecture but they are often mimicked by bay trees in tubs.

The accompanying photographs do not show any architectural necessity for trimming, but they illustrate most of the simple forms that always will be most esteemed because they harmonize with architecture. These simple forms are cheaper to maintain than the elaborate ones and they

are in better taste. Every school of art tends to kill itself by elaboration. It is vulgar and pretentious to display wealth by trimming evergreens into the shape of men, birds, fish, dragons, etc. These forms do not correspond with architecture, as the cube, dome, pyramid, and column do.

There is a better idea than trimming, viz., to use the trees and bushes that naturally approximate architectural forms and trim them as little as possible or not at all. By using such material we can avoid the artificiality of trimming.



These American examples do not group very well, but they illustrate some of the simpler forms—column, pyramid, globe, etc.



A garden framed on one side by a pergola, which divides the formal garden from the wild. Miss Emily Slade's garden at Cornish, N. H.



This pergola serves to unite the house with its site. Note the rough stone wall which separates the dressed ground from the wild

## THE USE AND ABUSE OF THE PERGOLA

By FRANCES DUNCAN

Photographs by CHARLES A. PLATT, ARTHUR G. ELDREDGE, PAUL FOURNIER, and others

THE pergola in America is both sinned against and sinning. It appears in the same case with Longfellow's heroine who had the little curl —

"When it's good, it's very, very good  
And when it is bad, — it's horrid."

With the idea of the pergola — that of a shaded, vine-covered arbor through which one may walk — no one has any quarrel; it's the expression of the idea that is at times appalling.

The pergola is, as I have said, more sinned against, and the chiefest of its misfortunes is due to the lack of what in another sphere would be called social tact on the part of its author; wherefore we constantly see pergolas, excellent in themselves, brought into close association with buildings of a type with which they should not have had even a bowing acquaintance. A pergola almost classic in its severity of design must suffer sorely when set down beside a careless rambling house of the bungalow order and a garden which is quite as informal and even more coquettish than the house. Precisely as out of place and uncomfortable is a rustic pergola, obtruded into the decorous shadow of an old Colonial house. The architect in either case may be serenely unconscious of having done anything amiss; yet the primary impulse which deters a man from completing with an evening coat a costume of tennis flannels or golf trousers,

should have restrained him. These things ought not so to be; yet unfortunately they are; and they are of such frequent occurrence that a pergola that is in perfect harmony with the house is rarer than one that isn't. Yet it should not need much wisdom to see that, if there is any architecture in the garden, it ought to echo the architecture of the house.

Another sin against the pergola lies in placing the unfortunate structure where it is absolutely futile and has no reason whatever for its existence. William Morris's dictum holds good in garden craft; there should be nothing beautiful which is not useful. Now a pergola naturally is doubly useful: it affords a support for vines and it provides a pleasant and shaded walk; it answers the purpose of the "pleached alley" of the older gardens for the shade of which one has to wait a number of years until its trees are grown. But the first duty of a walk is to lead somewhere; also there is no possible reason for the existence of a supporting structure unless there is something for it to support. Yet for all this it is not uncommon to see an unhappy pergola marooned in the centre of a wide lawn with not even a vine wherewith to bless itself.

Aside from the misplacement — though that is the worst sin — the pergola itself is often faulty in construction. This is a light error to that of being in a place where it has no right to be at all. Proportion is, in its construction, of first importance; very



A pergola of the simplest form at Northfield, Mass. The rough grape trellis screens the lawn from the chicken runs and arches the rear drive, concealing it from the lawns

often the pergola is altogether too narrow for its height. Eight feet wide, eight feet high and eight feet between the posts is a satisfactory distance in every way.

Another cause of suffering to those who have to look at it is the lack of overhead vines. It's well enough to have crimson ramblers grow up the sides — if you like them, though there are better ones — but unless there are enough vines overhead to make a really effective shade, the structure with its heavy unoccupied beams will suggest the section of an elevated railroad trestle; which in a garden is an unfortunate suggestion.

Unless the garden is very elaborate and very definitely separated from the house — though no good garden should be — the pergola ought to be constructed in relation to the house; it need not be closely related, but some degree of relation it should have. Its architecture should, as I have said, echo the architecture of the house, or at least be in keeping with it. If one's house is Colonial, then it is wisest

to forego the pergola and content oneself instead with the long, wide, low arbor which belongs to that period.

When seen at its best and in its most comfortable position, the pergola extends from the house along the lines of the house, and makes a shaded place from which one may look out upon the garden; or else it forms one side of the garden, perhaps arching the boundary walk;



An arbor of carpenter work, unattractive at that, which leaves little for a cloak of vines to do

usually it "leads somewhere" — to a pool with seats about it; a statue or sundial is at the end; it opens on a beautiful vista or leads into a charming path. It is well to supply the visitor with a reason, however slight, for taking the walk, beside the undoubted value of exercise. I remember a charming arbor — I daresay it would have been styled a



A well clothed pergola of pleasing design except that it is too narrow in proportion to the height and heaviness of the pillars

"pergola" in the North — in a little garden in Columbia, S. C.; this led wisely, conveniently and pleasantly from the rear of the house to the kitchen-garden.

In this country some of the most satisfactory pergolas have been designed by Mr. Charles R. Platt who is peculiarly gifted in the matter of relating the house to the garden.

Pergolas may be useful as well as ornamental. Another useful one, very simple in design and rough in construction, was built over the tradesmen's entrance to a country house — a hundred-yard-long driveway. On both sides of this road were originally a long line of grape-vine trellises. The architect took the cue, left the vines undisturbed, but put taller posts and overhead cross-pieces. The vines quickly covered them not only making a completely shaded road, but screening chicken houses and yards from the lawn on the other side of the road.

It was this same landscape architect — Geo. F. Pentecost, Jr., who made another cleverly useful pergola — this one on the estate of John Wanamaker, Jr. Besides its legitimate use, this pergola serves as a back-stop to a tennis court; fine wire netting is on the outside to stop a chance ball, but a heavy lattice is also present so that the netting is unnoticed; there are seats whereon interested folk may sit and watch the game. The wood of the structure is varnished with spar varnish and the choice of vines is peculiarly good — trumpet



A good photograph but a bad pergola. It is unrelated to anything else and might be a section of elevated railroad. For an outlook, a summer house would have been much better



A pergola terminating in a summer house has some justification for being—it is the connecting link. William Morris was right in his statement that there should be nothing in or about the house that is not believed to be beautiful and known to be useful

creeper and bittersweet, if I remember correctly—both rich in the orange tones that harmonize well with the color of the spar varnish.

The character of the vines wherewith a pergola is adorned does not receive half the attention it ought to have. I do



A fine prospect framed by the pillars of a pergola, which also gives emphasis to the path

not believe it is the place for roses; their flowering season is brief; their foliage rarely dowered with enduring charm; the winter protection, often necessary, is unsightly. Then, too, covering or embellishing the sides of a pergola, is, as I have said, comparatively unimportant; it is the overhead vine that matters—the varying shadows cast by leaf and stem on the brick walk below are very charming and a lovely thing to watch—yet rarely is this considered. In this matter of shadows and overhead shade, the wild grapes are peculiarly lovely; their heavy foliage gives dense shade in the summer when one craves it, the exquisite character of leaf and stem in earliest spring, the charm in October of the ripening grape-clusters; all of this makes it a vine much to be desired. Another vine, rarely beautiful overhead, is the wistaria; it is lovely in May when in full bloom, lovely when the petals are falling; it has a gracefulness and a poetry that the Crimson Rambler never thought of. There

are other pergola vines—Virginia creeper, bittersweet, clematis, trumpet-vine—but none for overhead effect compare with these two—the wistaria and the wild grapes. That is for Northern gardens. In the South there is a wider range; here roses as pergola vines are perfectly possible, even admirable. Especially is it true that if the pergola have any beauty of structure, and grace of line, this ought not to be obliterated by a rank growth of vines as if it were a back-yard fence, for which reason again, the overhead vines are desirable.

Undoubtedly the present enthusiasm for a so-called Italian garden is responsible for the frequency with which this long-suffering pergola is haled into gardens with which it has nothing in common. There is a prevalent impression that if one has a pergola, one has an Italian garden. But a pergola does not make an Italian garden any more than the single foreign garment that a heathen proudly assumes, arrays him completely in the garb of civilization—though in either case the one may be a part of the whole. But if, instead of haling into our

garden by the head and hair, as it were, pergolas and marble exedrae, we should bring from the gardens of Italy a sense of their beauty of proportion, their balance and symmetry, a touch of the skill and exquisite perfectness with which the Italian garden is fitted to the landscape and the character of the country—it would be a blessed thing for American gardening. For these are things that, like the Kingdom of Heaven, should be sought first, and then pergolas like the other good things may safely be added unto them.



A pergola at the top of a terrace wall framing a tennis court and serving as a back-stop for balls. Estate of F. W. R. Eschman, Yonkers, N. Y.



He straightens up and gives me an old-school salute whenever I happen to pass"

## THE SOUL OF THE GARDEN

By ELAINE GOODALE EASTMAN

Photographs by ARTHUR G. ELDRIDGE

### I. SPRING

YOU needn't talk to me about the first bluebird, Jim; that isn't the way I read *my* calendar!

Dad can tell the time of year by a glance at the coal-bin; and my small brother greets the jocund season with marbles and tops; and mother, I believe, dates from the millinery openings — but not this child.

Do you really want to know? Well, when the Professor unbars the porch door for the season, and takes to pottering around his garden, raking out a bed here and snipping off a twig there, much as a careful mother smooths out her little one's skirts and perks up its hair-ribbons — then I know it's spring!

If the birds have a grain of sense in their saucy heads, they're not planning to leave the winter resorts for at least a week or two. Why, it was snowing big flakes when I took my first peep from the window this morning! But, all the same, those flakes were no more substantial than thistle-down; and he must have smelt the spring somewhere under the damp, brown sod; for there he was, an hour or so later, poking that dear, aristocratic old nose out of his stuffy library, like a lean, gray woodchuck out of its burrow, and sniffing the bleak wind inquiringly. And then feeling about with his goldheaded cane under some dry leaves in a corner, quite as if he really expected to find something sprouting!

To-morrow, or possibly the day after, there will be a very discreet and well-considered bonfire. It is true that the Professor's garden was swept beautifully clean long before Thanksgiving. But, you understand, there will be those small rakings and clippings and snippings before mentioned to be delicately suppressed; and that means a friendly curl of blue smoke, and a whiff of spice on the March air, and finally a little pile of clean ashes to be raked back upon the beds . . . and the prologue is over and the play begins!

The Professor, you observe, Jim, is as fantastically neat as any old-maid aunt that you ever stood in awe of when you were a grubby little boy. No weed would dare even to show its impertinent head in *his* garden; fancy the light-minded fly who should venture to profane your Great-Aunt Betsey's sacred parlor!

You wouldn't think so fastidious a man would care to soil his fingers with real dirt? No, I suppose you wouldn't, Jim. You'd think he'd stick to his study fire and his philosophy books? Yes, I know you would.

You naturally think of a man with a hoe as all bent over and sweaty and grimy and wearing unspeakable old clothes. You would never condescend so far as to take a hoe in your nicely manicured hands; but if you *had* to do it every day, rain or shine, you'd soon be looking as if those awful old clothes belonged on you; and your finger-nails would go into permanent mourning; and you'd even begin to act

the part — get gruffy and clip off your words short like farmers do! I know you, Jim!

Now, the Professor wears a sort of undress uniform of nice, fady blue overall stuff when he gardens; it's regularly tubbed, and awfully becoming. The Professor, Jim, is the handsomest man I ever saw — bar none! You know what an intellectual head he has, and what a military bearing, and how beautifully that silver sort of hair with the thick, crisp wave in it contrasts with his clear, rosy complexion! Only a *good* man could have a skin like that at seventy-two. And his eyes are just as bright and dark as they ever were; and his smile as fascinating. He straightens up and gives me an old-school salute whenever I happen to pass, if it's half a dozen times in a morning; and his hands are as fine and as well-kept as a girl's. I simply *love* the Professor!

. . . No, it wouldn't do any good for you to "buy a blue cotton jumper and start a coldframe to-morrow!" Don't you suppose the green things know when one is pretending? You're as blind to the beauties of a promising row of ruby-throated beets or curly-headed spinach as — as I should be to the charms of a nicely articulated skeleton, for example! I simply can't imagine you feeling delicately of the pea-pods to see if they were plump enough; or pinching off the side branches of the tomato plants; or hunting for little striped bugs on the under side of the cucumber leaves . . . or any of those delicate little attentions.



"What a thing it is to be able to enjoy life impersonally — to possess a flower without holding it in the hand"

. . . You'd "as soon think of tickling a cow under the ribs to see if she was fat?" Just as I supposed. Your interest in roast beef and mashed potatoes, green peas and strawberries and all the rest of it begins and ends at the dinner table. You'd actually *prefer* buying your "green stuff" of the market-man to gathering it with the dew on, in your own back yard! You've no more *imagination!* . . .

Of course, it's quite understood that the Professor takes a modest pride in having the very first and the very best of everything. I should hope there isn't a man in the village mean enough even to *want* to beat him on string beans or early tomatoes. But that isn't the real reason of his garden, you know!

Or perhaps you don't know, you poor boy. You *are* so dreadfully young, you see! . . . Fifteen months older than me? Nothing of the sort, Jim. A woman is no particular age. I'm a contemporary of the stars — and of the sphinx — and exactly of an age with the Professor, when we walk together in the garden!

. . . You admit the Professor's flowers are "really very fine?" Now, honestly, Jim, what is your idea of flowers? "Something to send to a girl!" Exactly. But what do they really mean to you? Jonquils — columbines — hollyhocks — does each separate word of them paint a picture and sing a song for you? Then you never could be a poet-professor and have a garden, not even when that curly poll is white and those medical tomes snowed under!

If it's the uses of the flowers that appeal to you, and not themselves; if they remind you of nothing more ethereal than a dinner-party, or a funeral, or even a wedding — why, it would be a sin even to take you into the garden!

. . . No, Jim; *he* doesn't give me flowers. It's little Mrs. Professor — the dear, plain, practical home body, like a little brown bird, who bustles about with her great garden scissors to "cut me a bouquet!"

The Professor's sentimental offerings come in the shape of white-heart lettuces, crisp and tender; or such turnips as that old Roman could point to, roasting at his hearth, when he gaily rejected the bribes of the Sabines — you remember, Jim? — or even a pitcher of sweet cider foaming from the mill — russet wine of New England — essence of October! These may be given and accepted, or even bought and sold at a pinch; and I know how I should like to pay him for them! You may look as black as you please, Jim; it's quite true.

But the flowers, I imagine, are reserved for the keen kisses of the humming-birds and the honey-bees. To gather them would be, after all, a kind of sacrilege.

You see, his garden isn't only a laboratory; it's a shrine. It brings earth a little closer to us, and heaven a good deal nearer. . . . What makes you stand staring at me like that, Jim? Is my hat on one side — or what? — Please let go of my hand, Jim; I'm going in!

## II. SUMMER

There, that's enough for to-day! I seem to hear Polly's crisp ultimatum; and if that isn't her face hovering, watchful, at the window, it ought to be. Though I can see nothing more than a white blur at this distance,

I'm quite conscious of her guardian look upon me.

Dear Polly does take such good care of me! That five years' seniority of mine used to give me a sort of handle over her, or so I fancied; now, it's all the other way. I'm getting old and feeble, and must be looked out for. Just to humor the old girl, we'll let it go at that.

The currants will be just right for jelly this week. Polly can't possibly use them all. I wonder if my little neighbor over the way has time for housewifely thoughts this summer? I saw her two hours ago, going out with that ridiculous, half-baked young Medico of hers. And yet he may be a harmless enough chap for all I know; you wouldn't think Peggy would have any use for him though! He wouldn't have had a chance with a girl like that — not in my young days!

How deliciously, caressingly warm it is to-day! There's something about sun-heat that goes straight to the heart. The stored-up ray from the open fireplace is the nearest imitation we've got; but I vow I haven't been warm clear through for years, except when I've been sitting here in the sun awhile. The ardent smell of the roses and the whirr of those locusts; the cheep of the young robins just learning to fly — the rascals! — these steep soul and body in a bath of utmost content.

Somehow the aroma and the color and the warmth and the tune and the homely creature-comfort of earth are all fused in one sensation, to be apprehended, as it were, by one master-sense! Isn't it a fact that young folk must taste their pleasures thriftily, one by one, while the double-distilled drop of happiness comes only at the close of life, like the tiny glass of perfect cordial when the banquet is over?

Another thing; the youngsters must needs run about continually in search of something they haven't got, and then seize upon it roughly enough to brush the bloom off, and try to make sure of keeping it all to themselves. Even Peggy — the darling — if she were here with me in the arbor this minute, would be all of a tingle to pick the roses and bury her charming face in them and crush them to her white-muslin bosom! They must yield up their passionate lives to her, be part and parcel of her beauty, if only for an hour, before she can feel that she has enjoyed them.

What a thing it is to be old and able to enjoy life impersonally — to possess a flower without holding it in the hand! The roses nod at me from the top of the trellis . . . and Peggy throws a smile over her shoulder as she trips daintily along on the farther side of the hedge . . . and I sit here in the sun, a gray old codger, and am quite content.

Ah, here comes the little woman to reprove my dawdling . . . or perhaps to remind me of her order for new potatoes. I'm satisfied to know that Polly is at home and waiting for me; the knowledge fills my heart; I could sit here all day chewing the cud of pleasant thoughts. But Polly, you observe, wants *me* — not just the comfortable thought of me; not even the certainty that I am quite safe and happy and unalterably hers, but my very self and bodily incarnation, blue jeans and "frosty pow"



"Take my arm, Polly, and we'll go in to dinner"

and all! Perhaps, if Providence had seen fit to give us a child of our own. . . .

Well, well, little woman! what's up? Your old hubby was actually taking a cat-nap in the summer-house, after his stint of hoeing. Tired? Don't you believe it! Nothing in this world but pure luxury and sloth!

Green peas? To-morrow, if you like; or the day after, at latest. (Didn't I say a woman is more practical than we are? The garden is to pay its way, if you please!) . . . Currants? I had settled to begin picking this week. How many can you use, dear?

. . . What's that? You were thinking of putting up a few dozen for Peggy to start her own preserve-closet with? "They're going to be married next month; he's just got his hospital appointment!" I see.

Yes, women *are* more practical than men; and I suppose roses were meant to be picked as well as currants. Take my arm, Polly, and we'll go in to dinner!

III. AUTUMN

Don't ever be afraid of coming too often, my dear, or of talking too much! You can't tell me anything that I don't want to hear; and it's very . . . quiet . . . since the Professor went away.

No, there isn't anybody to come and stay with me; that is, nobody I care for particularly. . . . Yes, I sit here on the side porch most of the time, where I can look at the garden! . . . Yes, I know the nights and mornings are growing chilly, but one can always wrap up — are you quite warmly dressed, my dear? — and you see, if he *were* anywhere about, it would be sure to be in the

garden! I get almost happy, sometimes, fancying that he is there; just out of sight, you know, behind the row of currant bushes; cutting the corn-stalks, maybe, or picking the Hubbard squashes; or just resting awhile in the old summer-house.

No, dear, I don't think November is a sad time of year — not at all! That's just your young way of looking at things. To me, these rosy browns and lavenderish grays seem very beautiful; and it's such a restful time of year!

Everything's finished, somehow; the garden has ripened its fruits and is getting ready to go to sleep. I love to overlook the clean, empty spaces — the bean-poles stacked in a far corner — the tender roses tied up with straw — it all seems to tell me silently that his work is done, and the tools put away, and the faithful laborer at rest. You know we are told that there's a time to sow, and a time to reap. This is your sowing-time, Peggy; and I — I am richer than you — I have gathered in my harvest!

Yes, I love to watch the hardy chrysanthemums turning purple with the cold, and the birds at the mountain-ash berries, and the last yellow leaves parting softly, so softly, from the bough and brushing the sod as lightly as a butterfly's wing. Doesn't it seem to you, my dear, that Nature means to be as kind to us when the time comes to sever old ties, if we will only let her?

But you're shivering, Peggy! Put on my white shawl, child, and give me the lilac one from the bench yonder. I hope you don't think it odd to see an old woman in a white dress and a lilac shawl? The Professor, you know, could never abide black; and I do so enjoy wearing his favorite colors still!

Sitting alone so much, Peggy, I'm getting into a bad habit of talking about myself. Now I want to hear about you and Jim; where you went and what you saw; everything — everything!

. . . I know why you hold back; you are afraid it will hurt me to hear about your happiness! Child, child! do you really fancy that the honeymoon is the climax of happiness? Don't you know that my Professor is nearer to me now than your Jim is to you? Think, think of almost fifty years in one house, and yet — why, he was never so near as since he left me!

Let me tell you a secret, Peggy. I made a very common mistake; I couldn't bear to have him out of my sight an hour! I was actually jealous of his books for years and years; and I fancied the College didn't appreciate him. Why, I almost begrudged the boys the inspiration of his rare philosophy — those dear boys who came back year after year to tell him — and who are writing to me now by the score, Peggy, to tell me what the Professor did for them!

Yes, a woman can be very small. Do you know, in these latter years I could have found it in my heart to be jealous of the garden! I was afraid he might overdo; yes, that's true; but that loving anxiety wasn't all of it; I was actually jealous of something that he understood and I didn't; I was jealous of the *soul* of the garden!

Peggy, can't you take a leaf out of my book of life, dear? Jim's a doctor; and you "always hated physiology"; but if you *must* be jealous of his profession, don't you ever let him find it out. He has the scientific mind — methodical, exact; and you dear child, run to pretty fancies and feminine ideals. But don't worry yourself or Jim because *he* isn't a fanciful woman!

We women mustn't be too personal; it wears on them after awhile. Yes, I know it doesn't seem so now; but it is so! We mustn't try to make over or manage or even monopolize them too much. It's our besetting weakness, perhaps; I know it was mine.

And yet, I did have one excuse, my dear; you know we never

had a child. He made light of his disappointment for my sake; and I — I cherished the boy in my husband! We were wonderfully happy; but all the same, I should have been a bigger and a better woman if I had been a mother.

Forgive me, Peggy; I'm an old woman, dear; pray that with you and Jim it may be different! The children may seem to come between you two just at first — it's often so — but. . .

There! didn't you hear the gate click? Run away, child; your Jim wants you. Come and see me as often as you will; and don't let me be selfish and do all the talking next time! You'll miss the Professor; but you'll always find the garden in its old place. One kiss! . . . Run to meet him, Peggy; don't let him find the widow smiling and the bride in tears!



"I get almost happy, sometimes, fancying that he is there"





1. "Lilacs are the best shrubs," says Professor Sargent. He considers them more satisfactory for New England than rhododendrons

## A SPRING GARDEN OF LILACS, IRISES, AND PEONIES

THE SPLENDID EXAMPLE AT HOLM LEA — HOW THE IDEA  
CAN BE ADAPTED BY PEOPLE OF MODERATE MEANS

By WILHELM MILLER

Photographs and autochromes by ARTHUR G. ELDREDGE

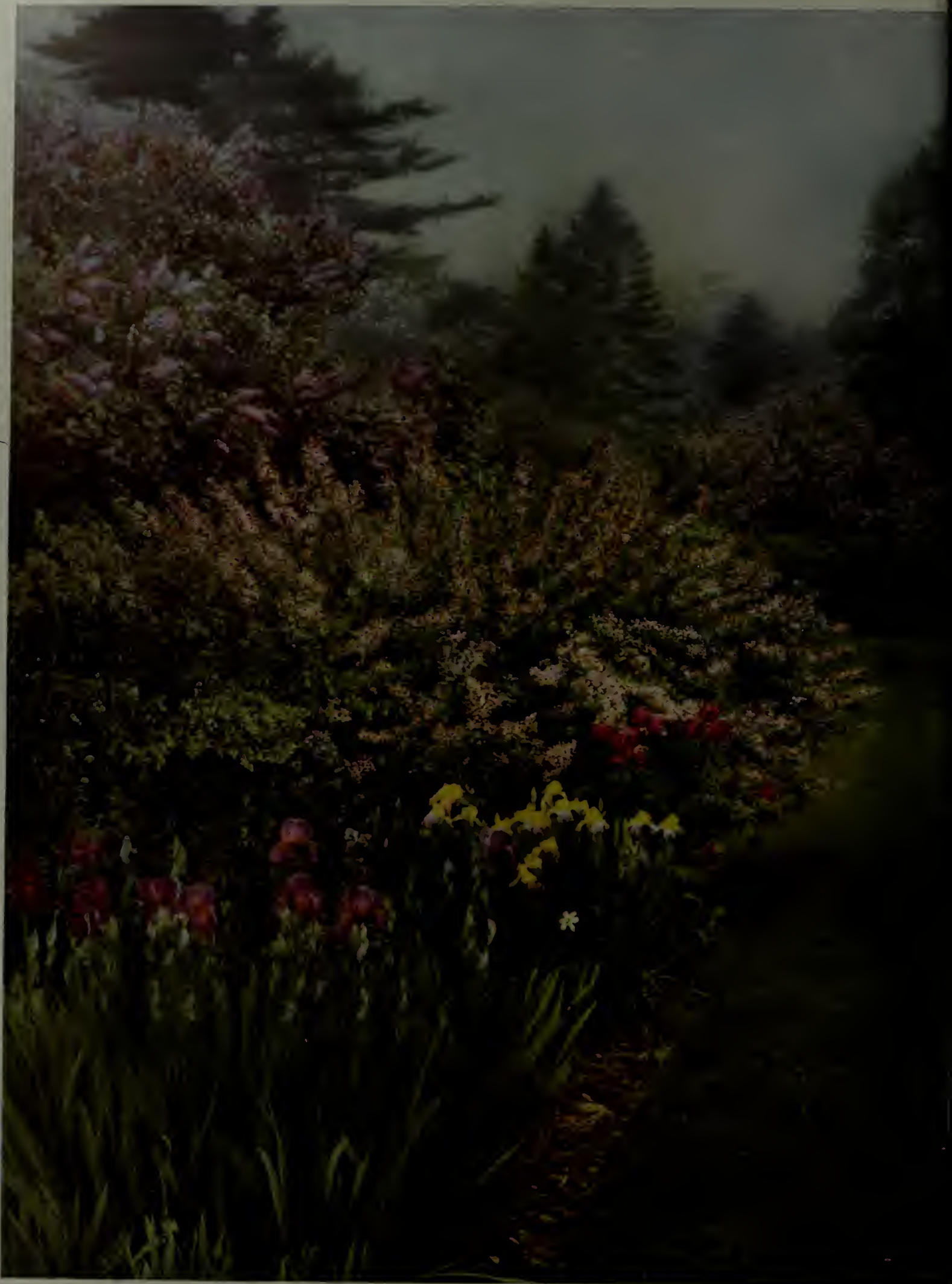
THE most gorgeous spectacle that man can produce with flowers is an American spring garden. In the Old World spring comes gradually and has no dramatic moment, but the New World enjoys a phenomenal "burst of spring" when the countryside is whitened as far as the eye can see by miles of fruit trees in bloom. About three-fourths of all the shrubs bloom in spring, and shrubs are the only material in which we have a decided climatic advantage over Europe. Why not follow up this plain hint of nature and make the spring garden a national institution? Why not make our land so supremely lovely that tourists will flock to America in spring from every part of the world? We can do it, if everyone loves beauty enough to consecrate one portion of his home grounds to the poetic moment of the year. For everybody can have a spring garden, even if it is only a single corner of a small yard.

The most inspiring and instructive spring garden I have seen is the one at Holm Lea, the estate of Prof. Charles Sprague Sargent at Brookline, Mass. The garden is easy to understand, for it is composed almost wholly of lilacs, irises, and tree peonies. When these are in flower, during

the last week of May and the first week of June, the wealth of bloom beggars description. In fifteen years of garden hunting I have never seen anything to approach it. Everywhere you look the eye is filled with gorgeous masses of color. For irises have blossoms about four inches across, tree peonies average six inches, and lilac trusses are nearly a foot long.

But this is not what makes the Sargent spring garden artistic. On the contrary, big masses of large flowers ordinarily produce a feeling of show, extravagance, pretence. This garden is artistic because it is a series of dissolving pictures, the views changing every step or two. Take, for example, the views wholly within the garden. One moment lilac is dominant, as in Fig. 1; then peonies loom up, as in Fig. 3; next iris becomes supreme, as in Fig. 8. Sometimes you see one perfect specimen of lilac as in Fig. 6; again your lilacs are grouped, as in Fig. 1; at other times they are mere backgrounds of green, as in Fig. 8. These three plants — lilac, iris, and tree peony — can be combined in hundreds of different ways. And anybody can afford to have them.

I want to explain just how you can make such pictures,



2.—HERE AND THERE YOU COME UPON A GROUP OF RED, YELLOW, AND PINK FLOWERS.



LIKE A BURST OF SUNSHINE IN THE MIDST OF SPRINGTIME BLUE, GREEN, AND LILAC

because the whole spring garden idea is very simple and practical. There are only four principles of garden design that must be mastered.

First is the principle of *pictorial quality*, as opposed to show. Many people would expose a garden like this to the public gaze, so as to get the greatest show for the money. This is all wrong, because you can never make beautiful pictures by scattering showy plants over a lawn. The way to get a series of dissolving pictures is to have a curving path — not a wriggling one, but one that curves just enough to reveal a new picture every step or two.

Second is the principle of *enclosure*. Many people make gardens without any hedge around them, or a hedge over which you can see. Anything of that sort is bad art, for there can be no charm without privacy, and there can be no pictures without a background. The best background for the ordinary flower garden is an eight-foot wall of brick or stone, because it does not rob the flowers, as hedges do. The Sargent spring garden, however, has a nobler background, because it is a living one. Consider, for example, the outlooks from this garden. In Fig. 3 you look out toward a grand old group of elms. Again you glimpse the stone house where Professor Sargent's father lived. In Fig. 6 you see the hanging woods that border the estate and shut out the commonplace world. In Fig. 5 you see some perfect specimens of evergreen trees. All these features combine to make a continuous background for the flowers and to give the garden seclusion.

Third is the principle of *color harmony*. There is no elaborate color scheme here and you do not need any. Nine-tenths of all discords are caused by flowers bordering on magenta. Throw these out and your problem is simple. Or you can make these strong colors delicate by surrounding them with plenty of green. The cockney cannot understand this. His ideal is the Easter azalea — all flowers and no leaves. The common notion is that a garden should have a perfect succession of flowers — a border should be one continuous sheet of bloom. This is bad art. Mere flowers without greenery are vulgar, tiresome, and full of color discords. You must have a generous proportion of greenery to make pictures and harmonize colors.

There are three ways in which you can get enough green. One is to have in the centre of your garden a broad stretch of grass, instead of a trifling flower bed or a sundial, which is overdone to the point of nausea. Then you will have green enough to rest the eye every few minutes, and the flowers will be twice as brilliant and enjoyable every time you turn from green to colors. Another way to get enough green is to have broad, grassy paths like these, which are wide enough for three or four people to stroll abreast. A third way is to surround the garden with trees. This garden is sunken so that everywhere you see color against towering masses of evergreens or hanging woods.

The fourth and last principle of garden design which everyone should understand is the principle of *economy*. The cheapest way to get a big show the first year is to use tender plants and annual flowers, such as coleus, geraniums, cannas, petunias, poppies. But this method is inartistic, because its aim is not domestic and pictorial but show. Again, the bedding system is bad art because it is the costliest to maintain. The best art is that which is the cheapest to maintain over a long period. The only true economy in garden design is to use permanent materials. The ideal which millions of women cherish is a garden of perennials, with annuals as fillers. A better ideal is a garden of shrubs, with perennials as fillers. It costs more at the beginning and makes no great show the first year, but it is cheaper in the end, and it is better art.

"Lilacs are the best shrubs," says Professor Sargent. This means a great deal coming from a man who has so many rhododendrons, mountain laurels, and azaleas that it takes two men six weeks of every year to pick off the pods. On "Rhododendron Sunday" 30,000 people come to see the flowers around his lake, which constitute a much larger spring garden than the one here pictured. Moreover, rhododendrons are evergreen, while lilacs are not particularly beautiful in winter. Nevertheless, after living for nearly forty years with unrivalled collections of both, Professor Sargent enjoys lilacs more. One obvious advantage that lilacs have is fragrance. Another is economy. Lilacs cost less than rhododendrons, laurel, and azaleas,



3.—Professor Sargent's spring garden from the central bed of peonies, looking out the south entrance toward a grand old group of elms. The garden is about 100 x 300 ft. and is composed chiefly of lilacs, irises, and tree peonies

and they do not require such expensive preparation of the soil. For members of the heath family require peat, and they cannot be grown in soil strongly impregnated with lime. Lilacs do better in New England than in the Middle States. In cold climates they suffer little from scale and mildew. The all-important point is to get lilacs on their own roots — not on common lilac or privet. It is the only way to control suckers and borers. A spring garden of lilacs is more practical for the millions than a garden of broad-leaved evergreens. The best kinds of lilacs are described by Professor Sargent in a bulletin of the Arnold Arboretum, and by John Dunbar in *The Garden Magazine* for June, 1905. There are about 220 varieties. Some nurserymen have booklets entirely devoted to the lilac.

If you take the lilac as the hero of your spring garden, you can have bits of color for seven weeks, beginning with



4.—The Altai rose, one of the best for shrubbery, bears a single, white flower about three inches across (*Rose spinosissima*, var. *Altaica*)

*Syringa oblata* which blooms at Rochester, N. Y., about May 6th, and ending with *S. Japonica* about July 1st. But there is no scheme by which a big show can be maintained for more than two weeks. The best period for a big show, in my opinion, is the poetic fortnight during which the trees unfold their leaves. This is the time when lilacs are at their best. Therefore, the best fillers for lilac gardens are perennials that bloom during this fortnight, e. g., irises, tree peonies, and late tulips.

I shall not give long lists of the varieties in Professor Sargent's garden. There is no point in it, for the beauty of these pictures does not depend upon rare and costly plants: it depends on principles of design and upon luxuriant groups. There is a book on the iris by R. Irwin Lynch, and there are dozens of catalogues devoted solely or chiefly to irises, peonies, and tulips. But the question of dates is important; also it is local. For instance, "Lilac Sunday" at Rochester, when 60,000 people went to Highland



5.—Lilac, iris, and tulip, in one of a hundred combinations, always with grass for relief and a background of trees. The garden is a series of dissolving views, the pictures changing every step or two



6.—The lilacs have a magnificent background because the garden is in a little hollow surrounded by superb evergreens, so that everywhere you look you see the white or lavender blooms against towering masses of green



7.—Looking out the north entrance. Iris King Harold to the right; deutzia, white and lavender lilacs, and tulip

Park, fell in 1911 on May 21st. The thing to do is to note the best shrubs and perennials that bloom in your neighborhood when lilacs are at their best.

Among peonies Professor Sargent prefers the tree or woody kinds to the herbaceous. These are more expensive and under ordinary conditions short-lived. Some people claim that tree peonies are larger, earlier, and have a more beautiful texture than the herbaceous, but I cannot see it. I believe that the common peonies are better for the million. Professor Sargent, however, declares that tree peonies are as "easy to propagate as weeds," if you know how. His gardener, Mr. Sander, grafts the best kinds in winter (usually February) and sets the plants low so as to get them on their own roots. He makes them bloom the first year. All the peonies in this garden are seedlings raised here. Professor Sargent cares little for double flowers. He reverses the ordinary horticultural practice by throwing away all the double peonies he gets. The tree peony has been cultivated for thousands of years, but the original form of it was unknown until recently discovered by an explorer for the Arnold Arboretum. It is hoped that this wild plant will put new virility into the garden stock when crossed with cultivated tree peonies.

The supreme value of the Sargent spring garden is that it teaches the right way to get brilliancy and color. It is wrong to maintain a big show for a long time. To use great quantities of tender plants, and maintain a lot of gardeners and glass, so as to fill in with potted plants in bloom, is ordinarily a wicked waste of money. And it is inartistic, because it is for show. Even with these aids, you cannot keep a place up to high C the whole season. The right way to get a big show is to divide your place into sections, one for spring, one for summer, and one for autumn. Do not be afraid that these corners will be unattractive when out of bloom. I have been in Professor Sargent's

spring garden at every season of the year and it always has a quiet dignity. The way to make home grounds interesting the year round is not to dot flowers everywhere. That is weak. The strong thing to do is to have permanent material, good foliage everywhere, and two or three good flower shows for short periods.

Divide your place, therefore, so as to have at least one good show of flowers, e. g., a spring garden. But do not go to extremes. For example, select no more than three-quarters of the plants to bloom during the fortnight of show. For the other quarter, choose plants that will make your spring garden attractive for six weeks by giving bits of color here and there. The fillers in Professor Sargent's garden include deutzias, daphnes, mock orange, Altai rose, tulips, daffodils. But he will not cover the ground with flowers. He likes areas of bare earth between rich clumps of perennials. Soil composes better with flowers, he thinks, than carpeting plants. It is neutral in tone, and when it is dark and rich with humus and fertilizer it is eloquent of human care, but does not suggest straining after effect. I believe he is right and that I have praised too highly the work of Frank Miles, Miss Jeykll, and others in so far as they have striven to carpet every square foot of bed or border with flowers. Theoretically, you can raise three crops on the same ground by means of hardy shrubs, creepers, and bulbs. Practically, it requires extraordinary care, such as Mrs. Francis King gives her garden. Professor Sargent has daffodils enough to fill his peony bed, but he will not do it. An edging of daffodils, he thinks, is enough. It is this self-restraint that gives to all his gardening an air of easy grace, so that everything seems to grow for him without effort. He will not crowd flowers even in a spring garden, and that is one reason why his estate is my standard of dignity, permanence, economy, and beauty.

Try making a spring garden, therefore, even if it consists of one lilac, one iris, and one peony. You can hardly do better than to make lilacs the chief feature.



8.—A suggestion to lovers of formal gardening. This bit of path shows the soldierly quality of iris when planted in serried ranks

# THE GARDENING MANUAL FOR 1912

SIMPLIFY YOUR OUTDOOR LIFE AND MAKE IT MORE SATISFACTORY AT LESS EXPENSE—A PRACTICAL WAY TO REDUCE THE HIGH COST OF LIVING

By THOMAS McADAM

## I. SIMPLIFY YOUR HOME GROUNDS

CUT OUT DISPLAY AND AIM AT PRIVACY AND COMFORT—SHELTER YOUR HOME, USE PERMANENT MATERIALS, GROUP THEM, AND YOUR PLACE WILL BE MORE ARTISTIC AND COST LESS TO MAINTAIN

### DON'T HAVE A SHOWY PLACE

IT IS natural that all beginners should desire a "big show for the money," especially as working in the garden is an expensive business, but their standards are continually rising. Five years from now you will hate the sight of a showy place. You will hate flower beds in the middle of the lawn, because they spoil all the peacefulness of the place.

You will hate to see a place open to the gaze of every passer-by, for there is no privacy.

You will hate to see canna's, clematis, and other showy, tender bedding plants outside a well-kept garden because tropical plants can never harmonize with Northern trees and shrubs.

You will hate to see Colorado spruce, purple beech, cut-leaved maple, and weeping willow in every yard because horticultural varieties make all places look alike.

#### CHERISH THE HIGHEST IDEAL

The highest ideal of home grounds is to fill them with domestic feeling—to make a private outdoor living-room, not a museum.

Only one thing is absolutely essential—privacy. It is not a case of snobbery or exclusiveness; it is a question of self-respect. For the noblest home life will blossom only amid privacy. You would not like to have passers-by peer into your indoor living-room. Why should you let them gaze into your outdoor living-room?

The ideal is to surround every place with a thick belt of evergreens and other trees and tall shrubs so as to keep out thieves, winds, ugly sights and sounds, and above all the commonplace world.

#### BEWARE OF FORMALISM

Don't enclose your property with hedges. Irregular borders of trees and shrubs are better. Hedges cut up a landscape and ruin it with their hard, artificial lines. Borders harmonize with the environment, have variety, and give interest the year round.

Don't bisect your lawn with a drive or avenue. One large lawn is better than two small ones because it gives unity—more rural feeling.

Don't set trees and shrubs in straight lines, except where absolutely necessary, as on streets; group them.

Don't make a circle in the lawn around every shrub. Plant bushes in borders or beds.

Don't trim every bush into a ball, cube, or pyramid. Allow trees and shrubs to assume natural forms.

There are four great enemies of beauty: show, formalism, speed, cheapness.

#### BEWARE THE QUICKEST SOLUTION

Everybody is crazy to get quick results, but the only things worth having are of slow growth.

The wrong way to get shade quickly is to plant "quick-growers," but they are all short-lived and unsatisfactory. Avoid poplars, willows, silver maple, box elder, Norway spruce, Scotch pine.

There are two right ways of getting shade quickly. One is to move big trees. This costs the most but gives immediate results. The second is to build a summer house, arbor, pergola, veranda, or covered seat.

But the best plan for the greatest number is to plant long-lived trees and wait. Pin, red, and scarlet oak grow rapidly enough for any reasonable person. They will soon overtake the "quick-growers" and live through the centuries.

#### BEWARE THE CHEAPEST SOLUTION

The cheapest plants are those which are most easily propagated, grow quickest, and give the greatest show for the money. Therefore it is the easiest thing in the world to have a showy place.

Anybody can ruin a home picture by having long lines of golden privet, scarlet sage, hydrangea, Wier's cut-leaved maple, purple-leaved barberry, golden elder, etc.

And the cheapest way to arrange showy plants is to scatter them. But such a place is expensive to maintain. The lawn mowers are continually dodging trees.

#### THE ONLY SIMPLE WAY

There is only one way to simplify the whole problem of home grounds—only one way to

get an artistic and economical place. Employ a first-class landscape architect and pay his fees, like a doctor's or lawyer's. Beware of men who work by contract or on commission. They are not removed from the temptation to sink the artist in the business man.

It sounds expensive, but it is cheaper in the end. A good landscape architect will save you his fee the first year several times over.

First, on grading alone. For most people squander money on flattening everything to the same level. He will show you why natural contours are more beautiful and less expensive to maintain than terraces.

Second, he will save you his fee by getting nursery stock at wholesale rates.

Third, he will save you the expense of tearing up and rearranging your whole place ten years from now, because he can anticipate the development of your taste.

Give him the same chance to study your personality that a portrait painter has, and he will make a place that will fit the climate, soil, environment, and the needs of all the family. Nothing else is artistic.

Consult a landscape architect before you decide where to build, for his judgment on the site and style of your house will be invaluable.

Spend about 10 per cent. of the cost of house and grounds on your outdoor living-room.

#### BOOKS THAT HELP

No book can teach you how to plan the home grounds. No beginner can do so complicated a job as well as an expert. It pays to have a landscape architect even for a city lot or when you have only \$200 to spend. But you must have some check on the landscape architect. This page will enable you to get the right kind. And if you prefer to study the subject and plan your own place, the following books will be helpful:

"Repton's Landscape Gardening," Nolen's edition	\$3.30
"The American Flower Garden," Blanchard	5.35
"Manual of Gardening," Bailey	2.20
"Landscape Gardening," Waugh	55



The wrong kind of home grounds is full of the spirit of show, pretense, display. Shun geometrical beds of tender, temporary plants



The right kind of home grounds is full of the spirit of art. Use hardy, long-lived plants and group them so as to make vistas

## II. SIMPLIFY YOUR FLOWER GARDEN

ABOLISH COMPLICATED BEDS AND GEOMETRICAL CURVES, USE FLOWERING TREES AND SHRUBS, HAVE FEW TENDER PLANTS AND ANNUALS, SHELTER THE GARDEN, AND MAKE IT FOR HOME USE, NOT FOR SHOW

### DON'T HAVE A SHOWY GARDEN

ANYBODY can have a showy flower garden. Anybody can buy cannas and coleus from the florist. There are no plants in the world that will give more color for the money or make a bigger show the first year than tender bedding plants.

Any one can have annual flowers who has five cents to spare for a packet of seeds.

Any one can plant great solid beds of flowers that will bloom two months or more, such as hydrangeas, geraniums, scarlet sage, etc.

Any one can place a garden where it will be seen by every passer-by.

Any one who has wealth can, by the aid of gardeners, greenhouses, and "everblooming bores," maintain a brilliant show of color the whole season.

Any one who has money can buy marble seats, statuary, well curbs, pergolas, etc.

#### THE IDEAL FLOWER GARDEN

The most dignified and beautiful gardens in America are the ones that have passed through the period of show. Color is merely an incident in them. If there are any large masses of flowers they last only a short time.

The ideal garden is not an exciting one; it is a reposeful garden, full of privacy, mellowness, peace, shade, atmosphere, domestic feeling. It is an intimate revelation of a pure and beautiful home life.

The fashion of the day is to have a garden that you can see at a glance. It has no enclosure, or only a low hedge of privet. Such gardens leave nothing to the imagination. They violate the deepest and oldest feelings of propriety that human nature has. Until 1770 the idea of a garden without an enclosure never occurred to mankind. The very word "garden" means an enclosed space.

The ideal enclosure for a flower garden is a high wall of brick or stone to keep out thieves, animals, winds, ugly sights and sounds, dust, and, above all, curious eyes. Flowers look twice as brilliant against such a background.

The wrong spirit is to exalt color above everything else. Color is not one whit more important than privacy, comfort, utility, shade, pictures, permanence, harmony, economy. More important than all is design, for that includes them all.

#### HOW TO DESIGN A GARDEN

The beginner can never design as good a garden as an expert. It is too complicated a

business. Design is a life study. The only simple way is to employ a garden designer. But if your adviser wants you to have a showy garden he is the wrong kind. If you desire a unique garden that will fit your personality, make sure that he believes in the following fundamental principles:

1. *Privacy.* Put a high wall or high hedge around the garden. A wall costs more but is cheaper in the end, for you do not have to trim, feed, spray, or water it, and it does not rob the flowers.

2. *Comfort.* Have a place to sit in the shade and rest, work, read, or dream. A summer house with a tight roof is best. Cold, hard stone seats without backs are uncomfortable.

3. *Utility.* A garden of fruits, vegetables, and flowers for cutting is more simple and purposeful than one in which you dare not cut a flower without offending the gardener or harming the general effect.

4. *Pictures.* Frame the best vistas inside and out. Have an arbor or pergola clothed with a great variety of climbers.

5. *Water.* Have running water to make the plants grow, and for its own beauty — its changing forms, colors, sound, reflections, shadows, and the wonderful lilies that grow out of it.

6. *Permanence.* Trees and shrubs are more permanent than perennials, annuals, and bedding plants. They give flowers enough for any one and cost less to maintain. Use short-lived material only as fillers during the first few years. Use perennials and bulbs that multiply with little care, in preference to rare, costly, and tender flowers.

7. *Harmony.* Blend all the conflicting interests. Keep out all magenta and purple flowers and you will have few color discords.

8. *Simplicity.* Shun all elaborate beds and geometrical curves. Make walks direct, convenient, purposeful — not serpentine.

#### WHEN TO PLANT

Get local dates corresponding with the operations mentioned below. Failing these, reckon from the New York dates here given and allow six days difference for every hundred miles of latitude.

*March 1st* (or a month before plowing begins). Sow annuals under glass to gain a month on the outdoor season. Start sweet peas in pots.

*April 1st* (or as soon as the ground can be safely worked). Sow hardy annuals outdoors.

*April 15th.* Set out hardy flowers from cold-frames.

*May 15th* (or as soon as danger of frost is past). Sow seeds of tender annuals outdoors.

*June 1st* (or when the ground gets warm). Set out bedding plants such as cannas and dahlias.

#### HOW DEEP TO PLANT

*Very fine seeds,* like pinks and portulaca. Do not cover these. Sow on a very smooth surface and press in with a flat, smooth board.

*Fine seeds,* like larkspur, love-in-a-mist, California poppy. Sift fine soil over them to a depth of  $\frac{1}{8}$  to  $\frac{1}{4}$  inch and press with a board.

*Medium-sized seeds,* e. g., alyssum, aster, balsam, pot marigold, lupine. Sow  $\frac{1}{2}$  inch deep.

*Large seeds,* such as morning glory, nasturtiums, sunflower, zinnia. Sow 1 inch deep.

*Very large seeds,* like castor beans. Sow 3 inches deep. Also sweet peas.

#### HOW FAR APART

Sow thinly by shaking the packet. Thin the young plants early and rigorously. You will get more and better flowers if you prevent crowding and allow every plant as much room as it needs. After thinning or transplanting, the distances should be about as follows:

*One-half foot apart.* Plants that grow less than one foot high, e. g., alyssum, candytuft, lobelia, mignonette, Drummond phlox, pansy, portulaca, schizanthus.

*One foot apart.* Plants that grow a foot or two high, e. g., balsam, dwarf nasturtiums, petunias, rockets, stocks. Also spreading plants like verbena.

*Two feet apart.* Cosmos, lavatera, salvia, sunflower.

*Three feet apart.* Four o'clock.

*Five feet apart.* Castor bean.

#### BOOKS ON FLOWER GARDENING

No book can teach any one just how to design a garden, but books can give us the fundamental principles of design, raise our standards, purify our taste, and furnish practical help. The following are suggested:

"The American Flower Garden," Blanchan . . . . .	\$5.35
"American Gardens," Lowell . . . . .	8.00
"The Formal Garden in England," Blomfield . . . . .	3.30
"The Garden and Its Accessories," Underwood . . . . .	2.20
"Manual of Gardening," Bailey . . . . .	2.20
"Gardening for Pleasure," Henderson . . . . .	1.50
"The Flower Garden," Bennett . . . . .	1.20
"The Seasons in a Flower Garden," Shelton . . . . .	1.10
"Garden Planning," Rogers . . . . .	1.32
"How to Make a Flower Garden" . . . . .	1.75



The wrong kind of flower garden is open to the gaze of every passer-by. A garden without enclosure leaves nothing to the imagination



The right kind of flower garden is hidden by a high wall or hedge to keep out thieves, wind, dust, and curious eyes



### III. SIMPLIFY YOUR FRUIT GARDEN

EAT MORE FRUIT AND LESS MEAT AND YOU WILL HAVE SMALLER DOCTOR BILLS — PLANT DWARF TREES, GET A SPRAYING OUTFIT, AND HAVE BETTER FRUIT AT LESS COST

#### AREN'T YOU SICK OF IT?

**A**REN'T you sick of seeing wormy, speckled, and insipid fruit exposed on the streets to every wind that blows?

Aren't you sick of buying a few apples at a time from the grocer, at shameful prices?

Aren't you sick of commercial preserved fruit and "jelly" poison?

Aren't you sick of paying millionaire prices for fancy bottles, freight on glass, multi-colored labels, useless wrappers, and short weights?

Don't you long for a binful of Baldwins and a coldroom filled with home-made preserves?

*Grow your own fruit!*

#### SAVE YEARS OF WAITING.

*Plant dwarfs!* They will bear four to ten years earlier than standards, often they give a taste of fruit the first year after planting, and a crop worth considering the second year. Why wait a dozen years for Northern Spy to come into bearing when several varieties will bear a full crop the fourth year? This means *dwarfs*, not merely low-headed trees.

#### GET MORE VARIETY

*Plant dwarfs!* A standard apple tree needs 40 x 40 ft. On that space you can grow twenty-five varieties of dwarf apples or twenty-five varieties of pears. Be a connoisseur of fruits. It is more fun than knowing every kind of wine, costs less, and is better for you. My grocer knows only two kinds of apples. To him all red apples are "Baldwins" and all green ones are "Greenings." Shall we eat the turnip-flavored Ben Davis all our days? Or shall we know the spicy kinds, the meaty kinds, the vinous kinds and all the others that melt in the mouth?

#### SAVE LABOR

*Plant dwarfs!* Save money on picking fruit. You can reach it from the ground. No tall ladders to put up, climb, and potter with.

Save on spraying. You can hit every pesky bug with a compressed air sprayer costing only \$7.50. You will not need a power sprayer or even a barrel outfit.

Save on pruning. No climbing up trees or ladders. Everything within reach.

#### HAVE BIGGER FRUIT

*Plant dwarfs!* The yield is smaller and that is why dwarf apples do not pay commercially. But you want quality! And you can get bigger, better colored, finer flavored fruit, picked when ripe and free from blemish simply because your

trees are so small that it is easier to thin, prune, and spray them and therefore you give them better care. So, buy dwarf apples and pears and keep the other kinds dwarf by pruning.

#### HAVE THE BEST VARIETIES

Reject all these rubbishy varieties that degrade our markets, such as Ben Davis apple and Keiffer pear. Plant only the varieties that connoisseurs like T. T. Lyon ranked at nine or ten on a scale of ten points. You can get such a list by sending to the United States Department of Agriculture, Washington, D. C., for Farmers' Bulletin 208. *Plant only the varieties there recommended for dessert and culinary purposes — not the market kinds.*

Many wealthy people import 100 varieties of dwarf apples, or all that a dealer has. They fancy it is "fun" to "experiment." Don't fool yourself. Half the list will die or prove no good. Why grow a lot of varieties which we know are not adapted to your section? You don't want a lot of gaps in your fruit garden, do you, or trees that speak of failure? Farmers' Bulletin 208 divides the country into nineteen sections and gives the varieties recommended for each section by the American Pomological Society. Don't go it blind. It's a wicked waste of money. *Plant only the varieties recommended for your section by the American Pomological Society.*

#### GET A PERFECT GUIDE

It is preposterous to try to raise fruit without a book. There are too many insects and diseases. There is too much to learn about pruning. Compared with the money you are going to put into plowing, fertilizers, tools, spraying, etc., the cost of a book is nothing. The best for fruit garden purposes are:

- "How to Make a Fruit Garden," Fletcher . . . \$2.20
- "Principles of Fruit Growing," Bailey . . . 1.65
- "Dwarf Fruit Trees," Waugh . . . . . 55

#### PLANT "PEDIGREE" TREES

The greatest new idea in fruit growing is "pedigree trees" — a notion started by Mr. George T. Powell about fourteen years ago. By this method we can save several years of waiting, get bigger crops, make trees bear every year, secure larger fruit, and even get trees that are practically immune from certain diseases. Not all of these advantages can be had in every case, but eventually this idea will revolutionize nursery practice.

The old way was to propagate trees by means of buds taken from water sprouts or other non-

bearing wood. This made straight, quick-growing trees but postponed bearing.

The new idea is to propagate only from bearing wood of trees of known record. For instance, Mr. Powell had Tompkins County scoured for the best King tree and found one that had never failed to bear a crop of fine apples for about twenty years although it had never been sprayed, and, best of all, it seemed immune to the canker which has killed nearly all the old King orchards. Mr. Powell has propagated fifty trees from this one. And he has Sutton Beauty orchards propagated from a tree which corrects the worst failing of this variety, viz., wood that is too weak to carry a load.

Several nurserymen now offer pedigree trees. They cost a little more, but who cares? The cost of trees is a very small item in the history of an orchard.

#### ANOTHER GREAT NEW IDEA

How to make an orchard pay for itself before the trees come into bearing is a serious question. The old way was to plant different *kinds* of fruit on the same land, such as currants between apples. Unfortunately the different cultural requirements conflict. For example, you dare not spray apple trees when currants are ripening beneath them.

The new way is to plant different *sizes* of the same fruit, e. g., standard, half-dwarf, and dwarf apples on the same land. Thus on a 40 x 40 ft. piece you can plant 5 standards, 4 half-dwarfs, and 16 dwarfs.

#### PLANTING TABLE FOR FRUITS

Beginners should plant farther apart than experts.

Kinds of fruit	Distance apart (FEET)	First paying crop (YEARS)	Profitable term (YEARS)
Apples, dwarf	10 to 15	6	35
" half-dwarf	18 to 20	6	50
" standards	30 to 40	9	75
Pears, dwarf	10 to 15	6	40
" standard	20 to 30	8	50
Peaches, South	16 to 18	3	16
" North	16 to 20	4	14
Plums	16 to 20	6	18
Cherries, sour	16 to 20	6	25
" sweet	25 to 30	7	30
Quinces	8 to 14	7	30
Grapes	8 to 12	4	30
Currants	4 x 5	3	12
Gooseberries	4 x 5	3	12
Blackberries	3 x 6	1	9
Raspberries	3 x 6	1	8
Strawberries	1 x 3	1	2



The old way of growing fruit was to keep a shotgun and a bull dog, and sit up nights. The new way is to have a wall



The new way of growing fruit is to plant dwarfs. No tall ladders to climb, easy to prune, spray, and pick the fruit

### IV. SIMPLIFY YOUR VEGETABLE GARDEN

FOOL THE GROCER, RAISE YOUR OWN VEGETABLES, INSURE YOUR GARDEN AGAINST FAILURE, AVOID THE SPRING RUSH, CUT OUT BACK-BREAKING METHODS, AND HAVE FRESH VEGETABLES THE YEAR ROUND

#### BETTER FOOD AT LESS COST

ANY beginner can have better vegetables at less cost because the grocer's vegetables are stale and high priced.

The ideal is to produce all that you eat, since this is the only way to get fresh vegetables. Some day you will have a hothouse, so that you can have tomatoes, cucumbers, eggplants, peppers, cauliflower and beans all winter.

The next best is to have some hotbeds and coldframes, so as to have coolhouse crops all winter, such as lettuce, spinach, radishes, mint, parsley. Get booklets about double glass and portable frames.

Everybody can raise most of the vegetables a family needs, provided there is a cold room or root cellar in which to store over winter late varieties of beets, carrots, cabbage, celery, kale, onions, potatoes, salsify, squash, and turnips.

#### INSURE AGAINST FAILURE

There is only one way to prepare for every emergency. Get a book that will teach you the best methods, forewarn you against enemies, and be a tower of strength in times of trouble. The best books on vegetable gardening for beginners are three that contain planting tables, viz.:

- "Principles of Vegetable Gardening," Bailey . . . \$1.65
- "How to Make a Vegetable Garden," Fullerton . . . 2.20
- "The Vegetable Garden," Bennett . . . . . 1.20

#### LAY SOLID FOUNDATIONS

The fundamentals are:

1. *Shelter.* Put a wall, hedge, or windbreak around your garden and you can have vegetables a fortnight earlier in spring and a month or two later in fall.
2. *Feeding.* Manure heavily. It seems expensive, but you get your money back the first year.
3. *Preparation of the soil.* The deeper you dig the more plant food you unlock. The ideal is to trench the garden.
4. *Watering.* More than half the failures are due to lack of water at critical times. Provide a perfect system of irrigation. Have pipe and hose enough to reach every plant.
5. *Cultivation.* Have a battery of up-to-date tillage tools so that it will be a delight to keep ahead of weeds and maintain a dust mulch.

Scientific methods cost more at the start than slipshod methods but are cheaper in the end, for you get bigger crops with less labor, and labor is the costliest item in gardening.

#### REDUCE THE COSTLIEST ITEM

Cut out all the slow, pottering work that used to be done on hands and knees, like weeding onions. Cut out the old, back-breaking stoop that comes from short-handled tools.

Get a wheel hoe, which contains practically all garden tools in one. "A wheel hoe," says one enthusiast, "will do anything you can do by hand and do it better and cheaper."

Visit a seed or agricultural implement store and have them demonstrate special hoes, rakes, forks, weeders, and other labor-saving tools. Write for a tool catalogue. Consult the back of your seed catalogue.

#### AVOID THE SPRING RUSH

Nothing is more complicated, bewildering, and unsatisfactory than gardening without a plan. Any beginner can make one. Spend four evenings on a plan during the next fortnight and you will have more and better vegetables with less expense, work and worry.

1. *Measure* the space available for the kitchen garden and draw the outlines on a sheet about 11 x 20 in. A good scale is one quarter of an inch to the foot. You can get paper ruled in both directions every quarter-inch.
2. *Rows.* Run these north and south, so that the sun will shine on both sides of every plant.
3. *Paths.* Make a path three feet wide or more along two sides of the garden at right angles to the rows. Have no path in the centre.
4. *Permanent crops.* Put these at one end and leave the rest free for tillage.
5. *Tall Crops.* Put corn and pole beans where they will not shade the smaller vegetables, e. g., at the north end with a melon patch between.

The best garden plan I have ever seen (Mr. Kayan's) was published in *The Garden Magazine* for March, 1908. (Price, 15 cents.) Also, consult Mr. Seymour's article in *COUNTRY LIFE IN AMERICA* for September 15, 1911, page 27.

#### HOW MUCH SEED TO ORDER

For a family of five, or a garden of 4,000 sq. ft., order one packet of seed of each kind, except peas, beans, and corn. A pint of peas or bush beans will plant 50 feet. A pint of corn will plant 100 feet.

#### DISTANCE BETWEEN ROWS

Save readjusting the wheel hoe by adopting a unit width, e. g., one foot (hand cultivation).

Root crops . . . . .	1 ft.	Celery . . . . .	3 ft.
Spinach . . . . .	1½ ft.	Potatoes . . . . .	4 ft.
Tomato family . . . . .	3 ft.	Vines . . . . .	6 ft.

#### HILLS OR DRILLS

Sow all *hardy* vegetables in *drills*, i. e., singly in straight lines.

Sow all *tender* vegetables in *hills* (except bush beans and peppers).

#### HOW DEEP TO PLANT

Nothing is so distracting as to try to consult books or planting tables when sowing seeds. To get the full flavor of happiness write your labels evenings and put on them the depth to sow and the distances apart.

- 3" to 5 in. Late peas, late potatoes.
- 2 in. Beans, corn, early potatoes.
- 1½ in. Beets, squash.
- 1 in. Cucumbers, melons, parsley, parsnip, spinach.
- ½ to ¾ in. Cabbage, carrot, cauliflower, onion, radish, turnip.
- ¼ to ½ in. Celery, lettuce.

#### HOW FAR APART IN THE ROW

Sow all hardy vegetables in drills one inch apart. Exceptions: Sow onions ¼ inch apart; beets, carrots, parsnip, radish ½ inch apart; potatoes 12 to 18 inches apart.

#### WHEN TO PLANT

Get local dates from an experienced gardener. Failing these, reckon from New York, allowing six days difference for every hundred miles of latitude.

*Hotbeds.* To gain a month, sow in hotbeds six or eight weeks before you dare set plants outdoors. (About March 1st).

*Hardy vegetables.* Sow these outdoors when trees begin to bud and farmers plow. (About April 1st.)

*Tender vegetables.* Sow these outdoors when all danger of frost is past. (About May 10.)

#### TENDER OR HARDY

The following cannot endure any frost:

1. *Cucumber family* (cucumber, melon, pumpkin, squash).
2. *Tomato family* (tomato, eggplant, pepper, potato, sweet potato).
3. *Other tropical vegetables* (beans, corn, okra).

[EDITORS' NOTE.—The books listed on the foregoing pages are from the presses of different publishers, but may be obtained most readily from your local bookseller or through the Mail Order Department of Doubleday, Page & Co., Garden City, N. Y. The prices quoted include postage. Information as to other gardening books will be furnished, and all gardening questions answered by our Readers' Service.]



The complicated way of raising vegetables is to have fruit trees in the kitchen garden. The shade and tree roots reduce yields and increase the costliest item—labor



The simple way of raising vegetables is to keep trees outside the garden, and run all the rows in one direction



When Rockgirt was built nothing but one scrubby choke-cherry shrub broke the bleak line of the hillside. Photograph taken in August, 1885



Pines make the present drive to the house warm and cheerful in winter. The house now seems a part of the landscape, not a spot on it

## WHAT TWENTY-FIVE YEARS HAVE DONE FOR ONE COUNTRY PLACE

By FLORA LEWIS MARBLE

Photographs by the author

TREES seldom grow wild where man most needs them on his building lot. When Rockgirt was built on the crest of Minnequa hill, commanding the view north, east, and west, all the trees growing on the hill were bunched in the wood lot the length of the tennis court from the back of the house, and nothing better than one choke-cherry shrub broke the bleak line of the hillside as it sloped away from the house on the other three sides.

The house is built after the lines of an old English farmhouse, and its very simplicity of roof demands cozy bunches of trees to tie it to the landscape, besides its exposed position on the top of a high hill calls for stalwart windbreaks.

The first thing that was done after the house was finished was to lay out the drive. This was already well defined, for the men who hauled the building materials up the hill naturally chose the easiest grade, making long curves back and forth to rest the horses.

Then came the question of what trees to plant. No pines grew on the hill, but that was evidently nature's mistake, for all the conditions called for them. The soil lay only about a foot and a half deep, underneath which was layer upon layer of loose rock, but pine is said not to mind that. The place was dry and windy, but those hardships only make the pine more sturdy and picturesque. The white pine, besides, is a rapid grower. It often gains two feet in a year and

attains a height of 150 to 200 feet in time. It has a regular, pyramidal shape when young, and becomes ruggedly picturesque in old age. It is beautiful and healthy winter and summer. Its needles make an excellent carpet on which to lounge of a hot day when the sun makes the air heavy with piney odors from the branches above. All the tree seemed to demand was plenty of sunshine and room to spread out its horizontal branches. No other tree seemed so adapted to the hill top, so white pine was planted with only a maple or two and a few oaks near the house to give variety.

The young pines were planted outlining the drive and forming clumps here and there, with large stretches of meadow left intact, as indicated on the plan. Great care was taken that the trees should not interfere with the view. Trees that were planted in front of the house were set far enough down the hillside to make only a pleasing foreground for the picture. Where the drive turns to the house trees would have shut out the view, but some windbreak was necessary to keep the snow from drifting and making the road impassable, so a hedge of hemlock was planted and left to grow untrimmed. Its uneven top makes a graceful line against the distant hills, and, as a windbreak, nothing could be more successful.

This was all done twenty-five years ago, and these years have given Rockgirt house a setting of thrifty pines forty feet or more high that fulfil

all the dreams their planter could have had for them. They make the house a part of the landscape and not a spot on it. They form a windbreak on the sides most exposed. They are warm and cozy in winter and cool and restful in summer, and their mature growth contains endless possibilities for the landscape gardener. It was at this time that we took Rockgirt.

The first thing that we did was to discover and develop an outdoor tea room in a group of pines growing near the house. This clump was composed of five trees, four growing around a centre one. The inside branches, being closely intertwined, were dead. When they were trimmed out there was a cozy tea room with walls of growing pine boughs and a soft carpet of pine needles. A doorway was trimmed out of a sheltered side, a circular table was built about the centre tree, benches and chairs were placed within the green walls, and the tea room was complete.

While this rocky, dry soil is good for pines, it makes lawns next to impossible. Dirt has been hauled to bank up the terrace about the house. This is seeded with lawn grass, and mowed, but the large, open stretches between the trees are allowed to grow to daisies and clover. The effect is really artistic, however.

The next thing that took our attention was the development of the thirty acres of woodland at the rear of the tennis court. These acres lie across the highest point on the hill, with a steep



Where the road curved down the hill it had to be ploughed and leveled



Entrance to the wood road. The wood lot joins the tennis court on the rear



Pines around the house form a windbreak, but the ones directly in front were set far enough down the hillside not to obstruct the view



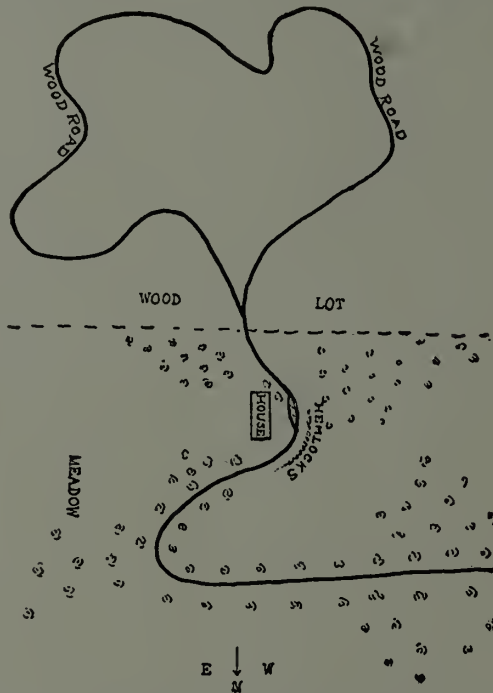
A lawn is all but impossible here, so only the terrace next to the house is kept mowed. Daisies and clover cover the rest of the open ground

wooded descent into the southern valley. The cliffs on the top of the hill command a view that can be had from no other point on the place, though few of our friends enjoyed it for, up to this time, the cluttered condition of the woods made getting about a strenuous matter.

It takes an unspecialized average mind to combine happily the beautiful and the useful. Many landscape gardeners sacrifice the utilitarian purpose for the sake of the picture. The forester, on the other hand, wants to cut down all the trees of any size and make salable lumber in order to re-plant the ground in rows 4 feet apart with seedlings that will mature in fifty years. We talked to men of both these professions about our wood lot, and then engaged a lumberman who would obey orders from an average mind, and had not too many notions of his own. The average mind alluded to had no special training, only an eye for the beautiful and a desire for firewood.

We started the road from the house along the side of the tennis court, and bent up into the high part of the woods at once. I went ahead to a point where the road was to touch, and the woodman followed blazing the way. This he did by cutting small trees and bending them into the centre of the roadway, following the direction it was to take. The road was drawn to touch several points where the best views of the south valley could be obtained. It curved around all the large trees, winding sometimes close between them. When a tree was diseased it was marked with a blow of the hatchet for future cutting, even if it was off of the line of the road. This cutting must be done to keep scales or insects from spreading, or if the tree is crowding or hurting another. When the tree is cut it should be sawed close to the ground with a smooth cut; this insures a good second growth.

As the road came down the hill and curved back toward the house it had to be ploughed and leveled. Care was taken not to plough



Plan of the grounds at Rockgirt, showing the winding road cut through the woods

near the roots of the hemlocks or to cut away too much around them, as they are often killed by a clearing giving them an unaccustomed supply of water.

The edge of the woods where the trees are exposed to storms and pests, had more severe cutting. Some of them were partly dead and formed breeding places for insects.

As the trees in the road were cut they were made to fall back into the roadway. This saved breaking young trees beside the road. Then the branches were stripped off, made into bunches and hauled to an open field along the road made behind the workers. When the branches reached the field such parts of them as were available for firewood were cut up and piled by themselves. The brush was left in a pile in the centre of the field to burn when a heavy snow would prevent the fire from spreading. Then the logs were hauled out, sawed to length, and piled. This sawing was done in the field to keep the litter from the woods. When the road was cleared the roots were cut from the stumps and the stumps drawn so as to leave the roadway smooth. The small stumps were easily drawn out by the horses, but some large ones had to be dynamited.

Without the wood road Rockgirt was not complete. With it we have gained some choice bits of landscape gardening, and the following statement proves that financially we made a good investment.

EXPENSES OF MAKING THE WOOD ROAD	
One team for six days . . . . .	\$24.00
Eight men for six days . . . . .	66.25
Dynamite and fuse . . . . .	1.00
	<hr/>
	\$91.25

We cut from the wood road twenty-seven cords of sound wood worth \$3 a cord (\$81), besides forty cords of punky or small wood good to burn but not salable, valued at \$1 a cord (\$40), making a total of \$121.



Blazing the way for the wood road. This was done by cutting small trees and bending them in the direction the road was to take



The same spot after the road was made. Winding roads in a wooded tract make ever-changing vistas and so add to the landscape picture



The lower walk, bordered with dwarf nasturtium, follows the brick wall. It is four feet lower than the upper garden and is reached by two flights of stone steps.

Looking from the side veranda across the garden toward the carved stone seat, and showing a glimpse of the fountain at the right.

## AN ITALIAN GARDEN IN MINIATURE

By CORA PARKER

Photographs by the author

ON THE steep southern slope of Corry Hill, Brookline, Mass., is a unique enclosed garden no larger than the average lawn on a village street, but possessing all the privacy and charm of a real Italian court garden.

It was designed by the owner, Mr. King C. Gillette, and has been modeled to fit the hillside. Two sides are enclosed by the large, rambling white house, a mellow-toned brick wall extends along another side, while on the remaining side a high iron fence separates the garden from the

terraced street which skirts the property at the rear. An entrance gate with brick pillars surmounted by an ironwork arch joins the rear wing of the house.

Three stone walks traverse the garden, one leading from the terrace gate to the balcony entrance of the great hall; a second walk leads across the centre of the garden from a side veranda, past the sun dial, to a stone seat opposite; while the third walk follows the brick wall four feet below, being reached by two flights of stone steps.

The distinguishing feature of the garden is the fountain which is built into the brick wall. The centre is of glazed tile, and the ornamental border and basin are of carved stone. Yellow poppies grow on each side of this fountain, and beds of gorgeous red and yellow zinnias bloom in the grass. Old-fashioned flowers grow in profusion in this favored spot and make a brilliant showing.

Altogether the charming results achieved in this garden are an object lesson of the value of landscape architecture even in a restricted space.



Gay-colored hollyhocks thrust their heads through the iron bars of the tall fence and nod to the passers-by.

Garden walk leading from the terrace gate to the balcony entrance of the great hall. The walks in this garden are all of concrete slabs.

## ALLURING FRAXINELLA

A PLANT OF MYSTERY WHICH EMITS A FLAME FROM THE FLOWERS, LOOMS SPECTRALLY IN THE MOONLIGHT, AND MAKES THE DARKNESS REDOLENT OF LEMON

By THOMAS McADAM

Photographs by NATHAN R. GRAVES

ONE of the most precious hardy flowers known to man is the fraxinella, a perennial bush about three feet high with spikes of white or reddish flowers that bloom in July. The whole plant exhales the odor of lemon. The bush is as shapely as a peony, and is even more permanent. After seven years a peony usually begins to go back. A single clump of fraxinella is said to have outlived father, son, and grandson on the same spot of ground.

The most spectacular fact about the fraxinella is that it will emit a flame on sultry summer evenings. The gas from the flowers is so strong that you can light a match above them and there will be a puff of flame. The conditions, however, must be just right—a still summer evening about dusk. I must confess that I have never succeeded in getting the flame, but reputable nurserymen will verify the statement. On account of this peculiarity, the fraxinella has often been advertised as the "gas-plant." The phenomenon is so well known that the plant is often referred to as "the burning bush," but it should not be confused with the species of *Euonymus* which are also called burn-



The so-called red variety of fraxinella

ing bushes, as the latter are shrubs with brilliant autumnal foliage and berries.

You will find this plant listed in nearly every catalogue as *Dictamnus Fraxinella*, and the popular impression is that the red is the original form, and the white a variety. The botanists, with habitual perversity, call the plant *D. albus*. The so-called red form has rosy-purple flowers, the veins being darker, and spikes six to ten inches long. The red variety has a coarse, cottage-garden look; the white is purer, goes better with other flowers, and is more conspicuous at night when it adds much to the charm of a garden.

All the names of this plant are remarkably interesting. The best are the oldest ones—fraxinella and dittany. Fraxinella means "little ash," referring to the pinnate leaves. Dittany means the same thing, as it is a corruption of *Dictamnus*, an old Greek name supposed to indicate foliage like the ash.

The culture of fraxinella is simple. Like other long-lived perennials it is not easy to propagate by division. It is rather easily raised from seeds but takes four years to bloom. Seed is best sown as soon as ripe. It can be sown outdoors and covered about an inch. The seed will germinate the next spring and the seedlings after two years' growth may be moved to permanent quarters where they will bloom the next year. Once established, a clump grows better every year and produces more flowers. The plant likes a rather rich, heavy soil and does as well in half shade as in sun.

The artistic possibilities of this plant seem to me quite undiscovered. You sometimes see a good mass of it in a hardy border, or a bold clump used as a lawn specimen, but its foliage is so glossy, leathery, and attractive throughout the season that it ought to have a bed by itself in the garden. Such a bed might be filled with lilies and edged with early bulbs.

The foliage would be pleasant to brush against, the white flowers would help to make our hot gardens seem cooler on moonlight nights, it would be spectral or mysterious, and on dark



A clump of white fraxinella, showing the purity of color and suggesting the compactness of the bush

nights its fragrance would powerfully stimulate the imagination.

Everything about the plant is strange and alluring. In all these centuries it has been in gardens, it has never acquired a commonplace or homely look, like peonies or iris. The form of the flower is strange, owing to its five unequal petals and the ten declined stamens. Fraxinella is not given to us for color, or for size of flower, or for height, but for charm. Why, then, should we not use it in ways calculated to excite wonder? How would it look at the end of a long covered walk, or reflected in a quiet pool?

## NEW IDEAS ABOUT PARKS AND PLAYGROUNDS

By W. E. PENDLETON

Photographs by E. J. WALLIS

THE accompanying pictures, taken at the famous garden city of Bournville, a suburb of Birmingham, England, show two new ideas that might well be adopted in the United States.

The playground for children under eight years of age protects the youngest children from being hurt by the older ones, as they are sure to be on the streets or in undifferentiated playgrounds. Half of this delightful and beautiful spot is in

grass for use on dry days, while half of it is in gravel for use on wet days.

The small park here shown stands for seclusion instead of show. In America small squares in great cities are usually extremely artificial, owing to the geometrical beds filled with carpeting bedding material which has the maximum of gaudiness and minimum of change. In this secluded spot at Bournville people may rest on benches from which all view of the surround-

ing city is screened. Yet the park is a small one, being merely a triangle of about an acre or less.

Instead of flower beds there are borders of trees and bushes, which are far more restful than the artificial bedding plants. Such a park costs much less to maintain and it is beautiful the year round, whereas the carpeting beds are nothing but mud banks for seven months in the year.



A playground for children under eight years of age. Half in grass for dry days; half in gravel for damp days



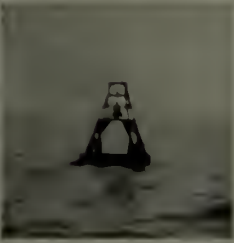
A new idea for small public parks—seclusion, not show. Trees and bushes have grown so that the city is shut out



# POWER YACHTING

CONDUCTED BY BRADFORD BURNHAM

## WHY SAILS ARE VANISHING



**I**T ISN'T always easy to imagine the impossible, but think for a moment, if you can, of automobiling with never a mite of tire trouble, with never the least particle of dust or mud, never a jolt or a jar, and never a provoking stoppage by the omnipotent

white glove on the Avenue or the still more aggressive country constable on the highway. In addition, think of a place with no speed limits, no licenses wrapped in red tape, no "private way, no trespassing" signs, no blocked roads or newly oiled ones. Surely such a dream is the seventh heaven of the automobilist. On land it is indeed impossible, but afloat, thanks to the motor-boat, it has become the usual thing.

There is no keener or more thrilling sport than sailing — when a fair wind blows. The remembrance of an exciting stretch homeward with the water boiling beneath the forefoot, the lee rail four inches awash, in spite of the fact that all available hands are perched on the opposite gunwale, ever stirs a wistfulness. But supposing it is sundown and supper is waiting ashore — and the wind has gone down, as it often, oh, very often, does with the sun, and you work your way home by inches, perhaps even resorting to the back — and patience — wearying sweep oar, then, what would you give for a "kicker?" Or perhaps the calm has caught you at noon time on the fishing banks in the broiling sun which keeps away both pleasure and the fish. Not a shimmer disturbs the glassy surface of the water; not a quiver shakes the ratlines. You simply sit and simmer, thinking alternately of the hot room in a Turkish bath and of the time you visited the stoke hole of an ocean liner. Within the cabin, still more tropical conditions prevail, for no breeze enters by porthole, cowl, or transom, and you almost expect to find the eggs in the locker hard boiled. What would you give, then, for a cooling breeze to fan your parboiled anatomy and send you homeward bound with a rush? Or again, what would, or what wouldn't you give, for a "kicker" to chug you merrily back to port?

The joy of motor-boating is a comparatively recently found sensation, scarcely

more than a decade old. Yet within this wonderful ten years science and skill have achieved the ability to increase this joy a hundredfold. The advent of the marine internal combustion engine brought with it the beginning of the end of the dangerous and unreliable naphtha flame engine, and of the steam launch, too, with its obstructive bulk for boiler and coal, and its slowness in starting. The days of the larger steam pleasure vessel, too, it begins to appear, are numbered. Each year fewer and fewer of the conventional steam yachts are seen upon our waters, and more and more of the swift and graceful craft of sixty, seventy, or one hundred feet in length, quietly driven by gasoline engines, which at once consume less room and entail less expense than their steam cousins. The motor-boat, both for business and pleasure, has come to stay. We are well aware of the tremendous vogue of the automobile — nearly a half million are now honking their way through this country. The motor-boat has largely escaped its land brother's notoriety; yet over two hundred thousand are now cleaving the waters of America's coasts, lakes, bays, and rivers. A large percentage are used for business purposes, but the pleasure motor-boat has increased in numbers by leaps and bounds, and the sport is still in its infancy.

It is easy to find the secret of this popularity.

As with the automobile there are two wholly distinct types; the one, making solely for speed; the other, for comfort, strength, and elegance. Unless one has enjoyed the experience, he can form absolutely no idea of the sensation of speeding over the surface of the water at from twenty to thirty miles an hour, and more. The



Note the preponderance of power over sail craft at a popular regatta. The certainty of the gasoline-driven boat is responsible for the change

auto speeder knows the feel of rushing air in his face, of a machine transformed for the time into a being with life, driven forward by a throbbing, pulsating heart. Through it all is the glorious feeling of mastery, of control, the thought that with him lies absolute power to produce, to modify, or to quell the speed demon of which he is for a time a part,

the leading part. All this is paralleled with equal intensity in the speed boat. But, moreover, comes the peculiar addition of the presence of water; of splitting and splintering the waves with a knife edge stem, tossing to either side a mass of shimmering white foam, topped with flying spray, till it boils up high above the boat itself, spreads widely out to port and starboard, and finally subsides and mingles with a huge stern wave and a troubled wake of foam. It is incessant, constant, and through it all is the deep pur-

(Continued on page 60)



When the wind won't blow, the boat won't go — unless power comes to the rescue. The caprices of Zephyrus are uncertain and at times exasperating



CONDUCTED BY RYLAND P. MADISON

### FIRE AND INSURANCE PROBLEMS OF AUTOMOBILES AND GARAGES

**T**HE prevailing rates charged by insurance companies for insuring automobiles and garages emphasize the fire hazard of this class of risk. Although it is generally well known that gasoline is a dangerous fluid to handle, familiarity with it often breeds contempt, and automobile users should know and not forget the care necessary to preserve life and property. Therefore it is the purpose of this article to point out the most common sources of danger, and how best to guard against them.

Nearly all automobile fires result from the ignition of gasoline. At ordinary temperature gasoline is continually giving off an inflammable and explosive vapor, and a lighted match or lamp at some distance away will ignite it through the medium of this vapor. It is claimed that the vapor from one pint of gasoline will impregnate and make explosive 200 cubic feet of air; and it depends only upon the relative proportions of air and vapor whether the mixture is a burning gas or a destructive explosive. Gasoline vapor is heavier than air and consequently circulates downward, where there is the greatest chance for ignition. The vapor from an empty gasoline barrel is nearly always a highly explosive one.

It is most essential to beware of any leaks from the gasoline tank or supply pipes, and carbureter. In addition to taking every precaution against leaks in the gasoline supply, it is advisable to turn the cock in the gasoline supply pipe between tank and carbureter at night or at other times when the car is to be left standing for some time.

The ignition of spilled gasoline in the garage may come from electrical sparks in connection with the ignition system, or from a match, a spark from the nails in your shoe on a concrete floor, or from a flame of any sort. Most automobile fires are due to carelessness in filling the supply tank; or from gasoline spilled from a flooded carbureter, due to the float sticking in a depressed position, from a needle valve that does not fit its seat, or from foreign matter lodging between the needle valve and its seat and holding it open. Dripping gasoline from a flooded carbureter usually falls on to the floor or into the pan, and along with the other oils and refuse which the latter contains, may become ignited from a back-fire, or electrical defects may furnish the igniting spark.

Short circuits in battery, timer, magneto or elsewhere, which throw sparks when an attempt is made to start the engine, are a frequent cause. Often gasoline for priming the engine is obtained from the pet cock under the carbureter, and is spilled in the operation, or the pet cock may be left only partially closed so that it drips. Gasoline is also much used for cleaning hands, greasy tools and parts, which adds another source of danger.

Another occasional cause of fire hazard lies in the position of the gasoline tank in the car. This is usually placed across the body under the front or rear seat. When the filling vent is near one end, the tank should never be filled completely, nor should the car be allowed to stand inclined toward that side on which the vent is located. Otherwise the gasoline may overflow and under favorable conditions, become ignited.

The exhaust pipe and muffler are also a source

ator is also another possible danger in the garage. Acetylene gas is about the most explosive gas known, and a leak from the tank, or failure to turn off a valve, allowing the acetylene to escape into the room, would produce an explosive mixture. Acetylene forms an explosive mixture with air when the proportion is as low as 3 per cent. and as high as 8 per cent. which indicates the danger from this source.

The proper place for storing gasoline is outside of any building, in a galvanized steel tank buried at least two feet under ground, and never should over five gallons be kept above ground. When it is desired to have a small can of gasoline about the garage, a safety can or pot such as is approved by the fire insurance companies for printing establishments, etc., should be used. Under no circumstances should the tank of a car be filled at night when the lamps are burning, or when smoking. Incandescent electric light is the best for garages.

Not only is the underground tank system the safest, but it is also the most economical method of storing gasoline, for evaporation is prevented as well as the danger of explosion. A very large proportion of the so-called engine troubles are entirely due to the use of gasoline which has lost its volatility through poor storage permitting evaporation. Gasoline deterioration is also a frequent cause of difficulties with the carbureter, carbonizing, non ignition and what are sometimes called water troubles.

Underground storage systems successfully prevent loss of both quality and quantity; they also store the gasoline where it is free from danger yet easily accessible. Most of the pumps which bring the gasoline up out of the tanks for use are self measuring, being adjustable so that they discharge a quart, half a gallon or a gallon to each stroke, also recording the number of strokes so as automatically to keep account of the quantity used. A double spout permits discharge into a can, or through a hose directly into the

automobile tank without exposing the gasoline to the air. Whichever outlet is used the fluid is thoroughly strained. When not in use these pumps can be locked to prevent theft of gasoline, and most of them are also self-draining. By pressing down the plunger as far as it will go, all fluid in the pump and pipe drains back into the tank. Storage outfits of standard size range in capacity from 60 to 550 gallons at prices varying from \$23 to \$180. This includes pump and full equipment ready to install.

Gasoline fires spread very rapidly, burn

(Continued on page 68)



The result of this fire shows the security of an underground storage tank system for gasoline. No explosion occurred and the pump is seen to be intact

of danger, often becoming overheated from too rich a mixture or misfiring, and they may ignite inflammable portions of the car, or oil or gasoline drippings. When a car is housed under these conditions in a small garage without ventilation the danger from such a condition is greatly increased.

Garages usually have appliances for repairing, and the danger from a torch, a fire pot or forge, in proximity to paints and varnishes, alcohol, kerosene or lubricating oils, metal polishes and cleaning solutions containing highly volatile liquids can be readily understood.

Acetylene gas in connection with the gener-





CONDUCTED BY R. A. STURDEVANT

### THE SUFFOLK HORSE

**T**HE native home of the Suffolk, or Suffolk Punch, horse is in Suffolk County, in the eastern part of England. The breed is raised to a considerable extent in most parts of England but is more numerous in the territory adjacent to Suffolk County.

The early history of the Suffolk traces clearly back to about 1700 and in purity of blood it is believed to surpass any other breed in Great Britain. The pure bred foundation of the Suffolk really dates back to a horse of untraced breeding foaled about 1760 known as the "Crisp horse," and it is an interesting fact that every animal of the breed now in existence traces its descent in the direct male line in one unbroken chain to this horse.

From infusion of strains possessing greater activity and a handsomer outline, the Suffolk horse is now one of the most beautiful of our domestic animals. However, all extraneous introductions have long since died out in the male line, and those remarkable features, the uniformity of color, the short leg, the beautifully rounded body, the longevity and vitality reaching to nearly thirty years of age, are still the well-known characteristics of this breed.

The Suffolk possesses certain distinctive features of which the following are worthy of special consideration: a small and well placed ear, forehead broad, eyes of medium size and fairly prominent. The nose tends to the Roman form. The neck is somewhat arched — in the stallions this is pronounced — with not too much heaviness at the crest. The shoulder is long, but not extremely oblique. The body has long been characterized by its great depth and circumference, considering the size of the horse. The ribs have an unusual spring and depth, thus giving the body a very round, full form.

The rump is full and well carried out; steep rumps are seldom found. Strong quarters and hocks are a feature of the breed. The legs are free

from the superfluous hair of the other English breeds of drafters. The bone is not large, but of superior quality. The feet are of the best, and are well able to resist long continued use on paved streets.

An English authority has said of the breed: "What the Suffolk breeder aims at, and the judge in the ring likes best, is a horse about 16 hands high; with great width fore and aft; deep in the rib from elbow to flank; with massive hind quarters and a back like a Southdown ram. He should have no diminution in width forward of the hips; short legs and hard feet; a good swinging walk and well balanced movement all round. The graceful outline is rarely absent, for the plain head, the ewe neck, and drooped rump, are not features of the Suffolk horse. Long, muscular shoulders widening out at the point from a front view; great width over the hips, and handsome rounded quarters are the distinguishing points in the show horse at home — and the points above mentioned are exemplified in the Suffolk."

The color of the Suffolk is a characteristic of the breed, for it is always a chestnut. This color has always been a breed feature, and no other color is allowed. It is an impressive sight to visit a farm where Suffolks are bred, to note the wonderful uniformity both in the color and conformation of the horses.

In weight the Suffolk mares and geldings should range from 1,700 to 1,900 pounds, and the stallions 200 pounds heavier. In many specimens the above weights are considerably exceeded however.

The Suffolk has no superior as a horse for agricultural work; he has been developed by farmers for farm use; from the time he is two years old until he is twenty-five, on every soil, at any work, he will hold his own against all comers.

The distribution of the Suffolk is more widespread than is commonly supposed. Great numbers of them have been exported to the Argentine and Australia, where they have found

much favor. In these countries the stallions are turned on the ranges with large bands of mares, and the grades have been found splendidly adapted to the agricultural conditions. New Zealand, France, Spain, Austria, Germany, Sweden, Russia, South Africa, and the Nile regions of Africa have imported them in considerable numbers. In the United States and Canada the Suffolk has been bred for only about twenty-five years, and it is interesting to note that the breed is rapidly gaining in popular favor. During the past two years several importations have been brought to the United States which have found ready buyers. The steady demand for stallions of this breed for the Argentine and Australian ranges has contributed to the maintenance of a higher scale of prices than for the other breeds of English drafters.

As a cross for artillery purposes the Suffolk has been found to produce exactly the animal required. Germany and Russia are using Suffolk stallions in breeding artillery horses, and the United States Government is at the present time seeking information along this line.

The fecundity and longevity of the breed is highly attested. Numerous cases are given which show that they are very prolific and tenacious of life. The dam of Webb's Rising Star 1266 was twenty-two years old when he was foaled, and the dam of Loft's Cupbearer had sixteen foals in sixteen years. A mare and foal were shown at one of the early Suffolk Agricultural Association shows, the mare being thirty-seven years old when the foal was dropped. The great stallion Julian Boxer 755 traveled at least twenty-five seasons and left a large number of superior sons and daughters.

In grace of outline, quality of bone, uniformity in color and character, and not least, freedom from those leg troubles too often seen on his feathery rival, the Suffolk is not to be beaten by any draft breed. In former years it was the custom in England to show mixed classes, and



One of the best specimens of the Suffolk Punch breed. Rendlesham Hardy, imported from England in 1910. His weight at three years of age was 1,900 pounds



Ruby, the champion Suffolk mare of England in 1909, as well as of the New York State Fair in 1911. Weight at seven years, 2,160 pounds. She is a regular breeder

while this was practised at the Royal, the Shires, Clydes, and Suffolks competed in one class, and the lion's share of the prizes fell to the Suffolk exhibitors. During this period Suffolks headed the list of winners fourteen times during the twenty-three years, and more than half of the seconds went to the same breed.

His great beauty combined with a perfect disposition especially recommends him to the better class of farmers. He has demonstrated his ability to perform a maximum amount of labor on a minimum amount of feed. His great fecundity is attractive to the breeder, and in the show ring no breed of horses attracts more favorable comment than do the big chestnuts.

H. T. MORGAN.

## FIRST AID AND HEALTH RULES FOR THE KENNEL



On guard at the beach

**T**HE dog's nose is the certain indicator to his general condition — if it is no longer cool you know at once that he is sick. But a dog's nose is extremely sensitive, and warmth in that member does not necessarily mean that he is feverish.

In the absence of a clinical thermometer an ordinary dairy thermometer will do, held between his lips and teeth. The normal temperature of a dog varies between 100 and 101 degrees Fahrenheit.

The pulse is quicker in highly bred, nervous dogs, such as setters, pointers, and collies, than it is in the more phlegmatic breeds. It is best, with dogs, to determine the nature of the pulse right at the heart by placing the hand against the body beneath the point of the elbow when the left foreleg is bent forward. First, however, be absolutely certain that the animal's condition is one of absolute tranquillity. In the latter state the heart should beat in the neighborhood of 90 to 100 beats a minute. You will have to use your own judgment, much depending upon the dog's activity when in health. An easy-going, dignified St. Bernard would naturally have a more sedate heart action than a wiry, excitable little terrier or fice.

The dog, more than any other animal that is the companion of man, is susceptible to poisoning, either by accident or design. The poisons that dogs are most liable to succumb to are cantharides (Spanish fly), strychnine, phosphorus, corrosive sublimate, carbolic acid, and arsenic. The invariable rule for distinguishing between the evidences of disease and poisoning is to note whether the attack is sudden or not, and by

ascertaining as far as possible the dog's past wanderings. If the animal has picked up arsenic, used to kill rats and other vermin, the symptoms are extreme fever and pain in the stomach and bowels, accompanied by swelling that is tender to the touch. There may be vomiting and frothy saliva. Strychnine causes extreme pain, and would probably be recognized by the animal's sharp cries and the frequent twitching of head and limbs; also the back is arched, the fore and hind legs being drawn toward each other by a slight touch of the hand upon the body, or even a sudden noise will produce the same result. If either of the above symptoms are present, give an emetic composed of from three to eight drams ipecacuanha wine in a little warm water, depending upon the size of the dog. Give only enough to produce the desired result.

In case of cantharides poisoning, indicated by the discharge from the stomach of bloody mucus in which shiny particles of green can be seen, give the above emetic followed by four to eight drops of laudanum every three or four hours. As soon as the dog seems easier stop the laudanum, renewing only when absolutely necessary. If the animal is a large one the dose may be like that for an eight year old child.

Corrosive sublimate causes vomiting and purging of stringy, offensive matter, and cramps. An emetic of a teaspoonful of tartar in a half a glass of warm water should at once be followed by the whites of three or four eggs. Each egg will render insoluble four grains of mercury.

Carbolic acid, often used externally in a diluted form for fleas, or even in soap, has been known to kill by absorption through the pores of the skin. It causes great prostration, shivering, and a palsied motion of the head, often accompanied by a bleeding at the nose. A warm bath and plenty of friction in connection with stimulants like ammonia, ether, brandy, or whiskey, sparingly administered, is the course to pursue.

The average short life of the dog I believe to be largely due to the many unnatural causes that prey upon his vitality. When a dog accompanies his master on horseback he not only travels the same distance as the horse, but in addition makes numerous visits to right and left, usually at top speed, often covering three and four times the actual distance of the journey. In addition to this he is apt to make numerous plunges into cold streams and ponds when overheated. He is often underfed, or, what is infinitely worse for him, overfed. Either he sleeps in a cold, draughty, wet kennel outdoors, or else he is the pampered object of luxury, practically digging his grave with his teeth. Often he eats indigestibles that are handed to him after his hunger is already appeased, simply because he hates to offend by refusing. He considers it his duty to accompany his master or mistress, and no amount of bodily fatigue will deter him.

A dog's vitality should never be lowered by vermin. A weekly bath with plenty of ordinary

soap should always be followed by friction until dry, in cold weather, or a bad cold or rheumatism may result. Occasional, or even daily, combing with a fine comb will do much to rid him of fleas. The latter breed in the crevices of wooden kennels, and unless these are also attended to your other labors will only mitigate the evil. Burn all straw, and use whitewash or kerosene in the cracks and sprinkled about the ground.

It is a mistake to feed a dog in litter or bedding — too much of it is swallowed with the food. It is also well to remember that a dog usually lasts as long as his teeth, and that retrieving rocks, or catching blocks of wood at a distance is bad. Children should be taught a proper regard for such things. To tie a dog, depriving him of necessary exercise, not only lowers his vitality and shortens his life, but it will make him snappish and surly. A good plan is to use a long wire upon the ground, with a running ring to which the chain is fastened, giving the animal its liberty during the day if possible.

Rheumatism is a very common disease in dogs. There is invariably some fever present. One kind, called chest founder (kennel lameness), is a rheumatic affection of the forequarters, where the shoulder blades connect with the trunk. Both shoulders seem stiff and sore, and it is most noticeable when the animal runs downhill. It is caused by exposure to wet and cold usually in damp and draughty kennels.

In treating for rheumatism in any form it is necessary that the bowels be acted upon. For a grown dog of the larger breeds give two and one half drams of Epsom salts, with one half dram cream of tartar, in water as a drench, in a broken dose, one half in the morning, the balance at noon. This should be followed daily for a week, with ten grains bicarbonate of potash. One part vaseline to eight parts turpentine is good as a liniment, if it is well rubbed in.

It is a good plan, when feeding a number of dogs together, to give the softer foods first, reserving the bones until last. This is to prevent the greedier animals from bolting small bones whole. Occasionally it happens that a dog succeeds in lodging a bone crosswise in his throat, in spite of all precautions. To prevent choking manipulate the throat at the sides with the fingers, working the obstacle up or down, if possible. If this method fails and the bone is too low for extraction by way of the mouth, as a last resort try pushing it down with a sponge securely tied to a piece of whalebone. It may be the means of saving the animal's life, as there is seldom time, in such cases, to get a veterinary. The whalebone should be notched and the sponge tied on securely. To guard doubly against slipping and lodging in the throat, the sponge should have a piece of string run through it with a needle and tied, the end being held in the hand so that it can be pulled out at any moment. It should first be dipped in sweet oil.

RICHARD L. RINCKWITZ.



An ordinary dairy thermometer will answer to take a dog's temperature. Hold it between his lips and teeth



Don't clip a dog's nails unless they get too long



To determine a dog's pulse place the hand right over the heart just beneath the point of the elbow



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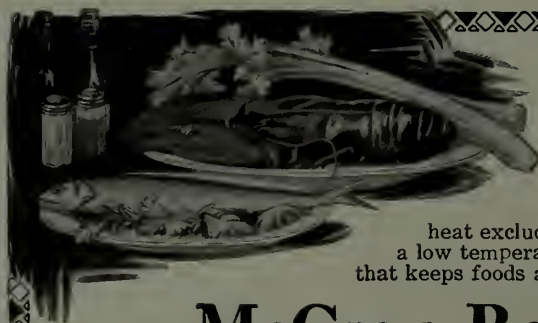
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Selling representatives in all leading cities



When It's a Case of Keeping the Food Right

then you *must* have a McCray.

Built to give active cold air circulation inside, acting on Nature's rule that heat ascends and cold descends. This with the heat excluding construction of the McCray walls, gives a low temperature and a dry, cold circulating atmosphere that keeps foods at their best.

McCray Refrigerators

are made in all stock sizes to serve the needs of the smallest or the largest family. No refrigerator in the world is made more carefully or closer to the ideal of perfect ventilation and refrigeration by circulation of cold, dry air. Most sanitary, easiest cleaned linings, opal glass, enamel, porcelain, or odorless white wood—no zinc—generous capacity—thorough workmanship.

The McCray Refrigerator will protect the family's health and give unequalled service.

Any of the stock sizes can be arranged to be iced from the outside, thus avoiding the inconvenience and muss of the ice man. You get every special feature in a McCray stock size.

**Write for Free Book** "How to use a Refrigerator" and any of the following catalogs:

- No. 33—Regular sizes for Residences
- No. 63—For Groceries
- No. 49—For Hotels, Clubs, Institutions
- No. A.H. Built-to-order for Residences
- No. 53—For Meat Markets
- No. 72—For Flower Shops

McCray Refrigerator Co., 381 Lake Street, Kendallville, Ind.



ons, dwarf phlox, and nasturtiums make a brave display.

Here we see what can be done under average conditions in the space of five years. To be sure, one must have patience, as plants do not attain their full strength and beauty in a few weeks, or even in a year, and above all one must be sure that the foundations are well laid, for without the proper enrichment and preparation of the soil no results will be obtained. Plants are much like human beings and must have light, sunshine, and nourishing food to become healthy individuals and desirable members of a community.

THE AUTOMOBILE

(Continued from page 54)

fiercely, and are difficult to extinguish. It may not be generally known, but water will not extinguish burning gasoline or other oils, and so its use should not be attempted. When thrown upon an oil fire, water merely spreads it and tends to increase the damage. Sand smothers it and is much more effective. A pail or two may, therefore, prove useful if a fierce little blaze gets started about the garage. Sand should not be used on the car itself, though, as it may do harm to the carbureter, valves or bearings of the motor. A gasoline fire, small in itself, often ignites wood and other substances which continue to burn after the oil is exhausted. Water can then be used to advantage, and a few fire pails constantly filled are a good investment in any garage.

By far the best means to put out fires of every sort is the chemical fire extinguisher, of which there are three distinct classes: dry powder, liquid, and gas.

The dry extinguisher consists of a metal tube two to three feet in length and about two and one-half inches in diameter containing ammonium bicarbonate, finely powdered. Upon being filled, the tube is hermetically sealed by lightly soldering in a top through which a hook projects for hanging the extinguisher in a convenient place. When needed for use, a sharp downward jerk pulls out the top, allowing the contents to be sprinkled upon the fire. Heat from the fire immediately decomposes the ammonium salt into ammonia, carbon dioxide and water vapor. All of these gases are not only non-combustible, but certain extinguishers as well, for they surround the burning materials and exclude the air which contains the oxygen necessary to support combustion. Extinguishers of this sort cost from 50 cents to \$3 each, according to size.

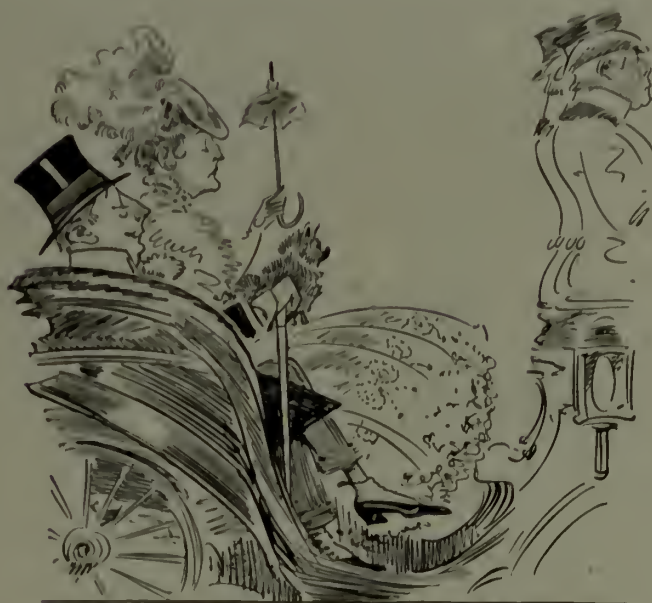
The typical liquid extinguisher consists of a copper container, cylindrical in shape, and of about two and one-half gallons capacity, filled with a solution of sodium bicarbonate in water. In the upper part is placed a small bottle partly filled with concentrated sulphuric acid. When needed for use, the extinguisher is turned upside down. This empties the acid into the soda water and generates large quantities of carbon dioxide, which, under high pressure, saturates the contents and forces it out of a rubber hose attached to the extinguisher, and in contradistinction to ordinary water is an effective extinguisher of oil fires.

Another form of liquid extinguisher, and one convenient for carrying in a car, consists of a cylindrical container of about one quart capacity, similar in design and method of operation to a large double-acting syringe. The contents consists principally of carbon tetrachloride, which is an effective extinguishing agent in fires where water would not be effective.

Steel cylinders may now be obtained charged with carbon dioxide at high pressure. These furnish a potent and convenient means for extinguishing oil fires; they are excellent for the garage and particularly desirable to carry constantly in the car in case of fire on the road. In use, the gas is turned on and the current directed toward the fire, which cannot exist in this gas, provided there is enough of it to exclude air from the area of combustion. When this is applied at an early stage, good results are certain.

These cylinders of carbonic acid gas should not be confused with bottles of compressed air intended for inflating tires, which, like a strong wind, would only fan the flames and increase the fire.

Liquid and gas extinguishers have the advan-



As it really is.

The Wild West Number of  
*Life*

At last reveals the Wild West in its true colors—the spoiled darling of Fate and the true exponent of wealth. The cowboy roams the plains no more. The scout no longer scouts. Instead, the social lions roar. And fickle folly pouts. The price of this number is ten cents, as usual. All news-stands.



**Recipe for Three Months of Happiness**

Use a pair of ordinary scissors, a fountain pen (a plain one will do) and a dollar bill. Cut out the coupon, write your name and address on it, and address an envelope to LIFE. Insert the dollar, borrow a postage stamp from a trusted friend, and mail in the nearest post office box. In one week you will feel like a new man or woman—  
“as the case may be.”

February 22. Wild West Number.  
See above.  
February 29. Wild East Number.  
March 7. Fashion Number.

Letters containing currency should be registered.

En-  
closed  
find One  
Dollar  
(Canadian  
\$1.13, Foreign  
\$1.26). Send  
LIFE for three  
months to



Open only to new subscribers; no subscription renewed at this rate. Order should be sent to us direct; not through an agent or dealer.

LIFE, 37 West 31, N. Y. City.

ONE YEAR \$5.00. (CANADIAN \$5.52, FOREIGN \$6.04)

# MOTT'S PLUMBING

**T**HE built-in bath is an integral part of the room and tiling — the joint is water-tight. It utilizes an awkward corner or recess. Space is economized. There are no out-of-the-way places behind or beneath. The fixture is embedded in cement, insuring durability and cleanliness.

Mott's built-in baths of Imperial Solid Porcelain are glazed inside and out — a beautiful and permanent finish.



"MODERN PLUMBING" — For complete information regarding bathroom or kitchen equipment, write for "Modern Plumbing," an 80-page booklet illustrating 24 model bathroom interiors ranging in cost from \$73 to \$3,000. Sent on request with 4c. for postage.

**THE J. L. MOTT IRON WORKS**  
1839 EIGHTY-FOUR YEARS SUPREMACY 1912  
FIFTH AVE. AND 17TH STREET, NEW YORK

BRANCHES: Boston, Chicago, Philadelphia, Detroit, Minneapolis, Washington, St. Louis, New Orleans, Denver, San Francisco, San Antonio, Atlanta, Seattle, Portland (Ore.), Indianapolis, Pittsburgh, Columbus, O., Kansas City, Salt Lake City. CANADA: 138 Bleury Street, Montreal.



BATH BUILT IN CORNER

## "REECO" Water Supply Systems

**Highest Efficiency  
Lowest Operating Expense**

No other system of equal efficiency costs so little to operate and maintain as "Reeco" Systems — no other that will "stand up" year after year practically without repair, delivering full service as will "Reeco" Systems.

Reeco Engines are operated by hot-air, with coal, wood or oil for fuel. No steam, noise or dangerous gasoline.

Over 40,000 "Reeco" Engines are in use throughout the world.

We make complete installations of water systems for homes, factories, hotels, etc. 70 years' experience back of our methods.

### RIDER-ERICSSON ENGINE CO.

New York, Boston, Philadelphia, Montreal, P. Q., Sydney, Australia.  
Also Makers of the "Reeco" Electric Pumps



Write nearest office for Illustrated Catalog C5.



Angell & Sayfl. Architects, Providence, R. I.

### Waterproof the wood yet preserve its natural surface Dexter Brothers English Shingle Stains

are mixed with pure linseed and special Dexter preservative oils which waterproof the wood as well as bring out the beauty of the grain. When used on shingles, the soft, velvety appearance of the furze is retained. Paint entirely conceals the surface and destroys the "texture."

Only the best English ground pigments are used. The full, strong color lasts long after other stains have faded or turned black. Dexter Brothers English Shingle Stain costs far less than paint, and will outwear paint or any other stain.

Write for booklet and 22 stained miniature shingles.

DEXTER BROS. CO., 109 Broad St., Boston, Mass.  
218 Race St., Philadelphia, Pa., 1133 Broadway, N.Y.

Makers of PETRIFAX CEMENT COATING

AGENTS: H. M. Hooker & Co., Chicago; E. B. Totten, St. Louis; F. H. McDonald, Grand Rapids; F. T. Crowe & Co., Seattle, Spokane, Tacoma, Wash. and Portland, Ore.; Sherman Kimball, San Francisco; Hoffschlager & Co., Honolulu; AND DEALERS.

Stain brings out the grain, gives a soft, velvety appearance. Paint hides the grain, spoils the natural surface.

tage that when used about the car itself there is no solid material to get into and injure valves, bearings, or other mechanism.

Even though the prevailing rates of insurance for garages and motor cars may seem high, it pays to insure them; only when one has an absolutely fireproof garage is there some justification for taking a chance without insurance on the building. Even then, the owner of an expensive car is unwise not to insure it against fire, collision, and accident.

On garages insurance rates are 25 cents per \$100 higher for one year or 62½ cents higher for three years than private stables of similar construction, while the contents rates are considerably higher. This is based on one to three cars in a garage. When a larger number is involved insurance companies will make a specific rate, somewhat higher, based upon the merits of construction and occupancy as found on inspection. Buildings which are claimed to be absolutely fireproof will also be inspected and a special lower rate granted when justified.

The present yearly rates per \$100 of insurance on private garages containing not more than three cars do not differ materially in any part of the country from those on Long Island, which are as follows:

Construction	Risk	Buildings	Contents
Brick, stone, reinforced concrete	Unprotected	45c.	\$1.25
	Protected	65c.	1.25
Frame, brick and frame, brick filled, brick veneered, stucco on metal lath, or wood frame	Unprotected	55c.	1.25
	Protected	65c.	1.25

Three-year rates are two and one-half times the above figures.

Tile, stucco on tile, stucco on concrete, concrete block, cement block, or molded concrete buildings are classed as frame if more than one story high, and the frame rates given above apply; if only one story high and not under fire department protection, they are also classed as frame. If only one story high but under protection they are put in a special class carrying a rate of 20 per cent. less than the frame rates given.

These rates contemplate the use of gasoline under either of two permits.

Under one, the gasoline tanks of an automobile must not be filled within the garage, nor can more than two quarts of gasoline be kept in and used from a metal safety can for cleaning purposes. The supply tank must be at least ten feet from the building or buried five feet below the basement floor with all piping and connections outside the building.

Under the other permit an automobile tank may be opened, filled or emptied within the garage by daylight or incandescent electric light only, but no fire or blaze is permissible in the room where or when the tank is open. No gasoline can be kept in the building except in the tank of the automobile, and not exceeding one gallon in the measuring pump. No supply tank is permissible within ten feet of the building unless it is buried at least two feet below the level of the basement floor. All pipes for filling or ventilating the supply tank must be outside the building, and the piping to the pump must be so laid as to drain toward the tank.

In addition to these provisions, the assured can have a permit for the temporary storage of the automobiles of guests or visitors for a slight additional charge. This by the way, is also necessary for a man who has a stable and does not keep an automobile of his own but wishes to take care of his guests' machines.

From the assured's standpoint it is best to insure his dwelling, household furniture, and garage building under one policy, giving him but one record to keep track of and one place from which he can determine the total amount of insurance he is carrying, aside from the specific amount of his special automobile policies.

Automobiles are generally insured separately under a special form of policy for the purpose, covering the car wherever located, and not with the garage or other buildings. They can, however, be insured under the standard fire policy while contained in any specified building at the rates indicated above, but the special policy at the higher rate, covering anywhere, is the better proposition for the assured.

There is no standard form of automobile policy such as the "Standard Fire Insurance Policy of the State of New York," the different



"The World is mine—  
I own a KODAK"

Take a Kodak with you, and picture, from your own viewpoint, not merely the places that interest you but also the companions who help to make your trip enjoyable.

Anybody can take good pictures with a Kodak. Catalogue free at the dealers or by mail.

If it isn't an Eastman, it isn't a Kodak.

**EASTMAN KODAK CO.,**

ROCHESTER, N. Y., *The Kodak City.*



AMERICAN  
BRONZE BEARING CO.  
CLEVELAND

Slate	Cost per Square
Tin	\$ 8.00
Shingles	7.00
Best J-M including	5.50
cost for 10 years	4.80
J-M Asbestos	4.00

Above buildings covered with J. M. Asbestos Roofing

## The Cheapest Roofing

J-M Asbestos Roofing is lower in first cost than shingles, tin and slate, and cheaper than all other roofings when cost per year is considered.

Tin, iron and most prepared roofings are a continual trouble and expense, for they have to be painted or regraveled every few years. No paint, gravel or other protection is ever needed for J-M Asbestos Roofing. *Its first cost is the only cost*

# J-M ASBESTOS ROOFING

consists of layer on layer of Asbestos (rock) Felt securely cemented together with Trinidad Lake Asphalt. This makes a ready roofing that is literally a pliable stone—with the everlasting qualities of stone.

Sparks or burning brands cannot ignite it. Rain, snow, heat, cold, salt air or chemical fumes cannot injure it.

This roofing is in good condition today on many buildings after more than a quarter century of service. J-M Asbestos Roofing can be used on any type of building.

Get it from your dealer. Sold direct if he can't supply you.

Write our nearest Branch for a piece of the curious Asbestos Rock and illustrated Book No. 28

**H. W. JOHNS-MANVILLE CO.**

Manufacturers of Asbestos and Magnesia Products

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## What is going on inside of your motor?

In an automobile motor the oil that passes through and lubricates any one bearing, is the same that passes through and lubricates all the other bearings and all the other moving parts.

Can you not see, then, that if any one bearing is of a granular, loose-knit structure, which is flaking off under frictional stress, the oil passing through it will collect these metallic flakings and carry them to every other bearing and moving part in the motor and cause their rapid wear?

That is why the granular bronzes are rapidly being given up in automobile work and why NON-GRAN has now been exclusively adopted for all minor shaft bearings by that large class of manufacturers who have learned the wisdom of keeping their cars out of repair shops.

In selecting your new car, or in repairs to your present car, insist upon getting NON-GRAN Bronze in all of the minor shaft bearings.

Nearly 1200 Repair Shops use NON-GRAN exclusively for bearing replacements. If yours does not, send us his name, we will see that you get NON-GRAN. Our booklet E. — a valuable non-technical treatise — free on request.

AMERICAN BRONZE COMPANY, Berwyn, Pa.



## I am the Bay State Coating Man

My Bay State Brick and Cement Coating is a protection for concrete and stucco, has been tried under all sorts of conditions and has met all the requirements. Years before anybody else made a coating for concrete or stucco mine was an established success.

Mine has no oil in it and you can't burn it. It will keep out moisture and save concrete from cracking. You can use it as a floor or wall tint on concrete or wood. It has a dull tone and will protect stucco walls, factory floors, or factory wall, in rooms that are damp or in rooms that are dry and it does not destroy the distinctive texture of concrete.

Just write me and let me send you our Booklet No. 4 that gives you a list of the houses of concrete and stucco and other constructive work upon which my coating has been applied. Address

**Wadsworth, Howland & Co., Inc.**

Paint and Varnish Makers and Lead Corrodors

82-84 Washington Street

Boston, Mass.

# Fifty times more beneficial than a Turkish Bath—the radiant energy of Electric Light Tones the Entire System



You can't be healthy unless you sweat. Sweating is the appointed business of the skin pores—to throw off the constantly accumulating body poisons. *Exercise and Sunlight* stimulate the pores to do this necessary work. Lack of exercise and sunlight means failure to sweat and that means a body clogged with poisons. Sooner or later this clogging brings debility and disease.

Business men, busy women, don't get enough sunlight and exercise to cause thorough sweating. Science has proved that the very best substitute is the Electric Light Bath now established in Sanitariums and Hospitals the World over, used by the greatest physicians of Europe and America.

Our Battle Creek Electric Light Bath Cabinet built for the Home—simple, convenient, efficient,—

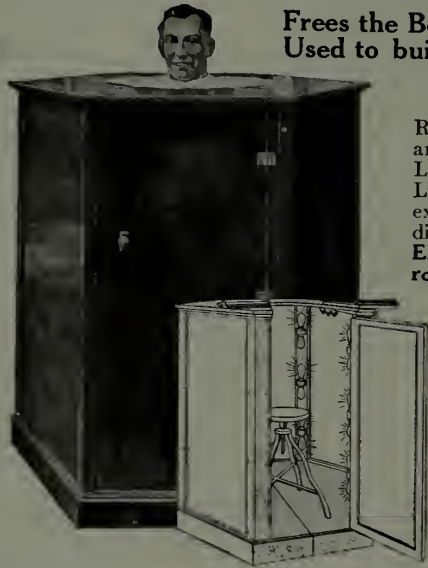
can be placed in any bathroom or bedroom. 4 cents worth of electric light gives a thorough bath: no attendant needed.

The radiant energy of electric light is a wonderful tonic—penetrates the tissues of the body instantaneously and generates heat in the depths of the tissues and the deep layers of the skin.

*No surer regulator of Health and Energy can you invest in for the whole family.* Ready instantly, no trouble—undress, sit down in the cabinet, turn on the lights—your head is outside, you breathe pure, cool air—10 to 15 minutes of solid comfort and delight—*every pore has given up its waste*—then a cool shower or plunge bath or alcohol rub, and your flesh is clean, clear and sound, your blood tingling with renewed energy—every muscle rested—brain refreshed. The original and genuine'

## Battle Creek Electric Light Bath

**Frees the Body from Poisons—Invigorates Muscle and Brain. Used to build up Health in all the Celebrated Sanitariums.**



Thousands upon thousands of sufferers from Nervous troubles, Rheumatism, Blood and Skin diseases, Stomach trouble, Neuralgia and Colds, Bright's Disease, Obesity and Anemia, disorders of the Liver and Kidneys, have received lasting benefit from the Electric Light Baths in Sanitariums and Hospitals. Now, at trifling expense your entire family can be continually safeguarded from disease and debility. For brainworkers the Battle Creek Electric Light Bath, the Original and Genuine, is the surest road to Efficiency.

**Send for Free Book of Home Treatments**

with illustrations and full details of our Standing and Folding Cabinets, prices and terms. Our Cabinets are built to last a lifetime, shipped with all accessories on 10 days' trial—and guaranteed.

**Sanitarium Equipment Company**  
269 West Main Street, Battle Creek, Michigan, U. S. A.

## James McCreery & Co.

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### DEPARTMENTS OF HOME FURNISHINGS

For the Spring and Summer Seasons there has been arranged an unusually interesting collection of Plain and Printed Fabrics, designed to harmonize with Craftsman Furniture.

French Willow Hand-made Furniture is shown in a very extensive variety and may be had in any desired color to harmonize with hangings and coverings.

Bar Harbor Willow Arm Chairs in Natural Finish. Complete with cushion - - - - - 5.00

Craftsman Furniture sold exclusively by James McCreery & Co.

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New York

companies being permitted to use their own form, but those in use do not differ materially from each other. All cover automobiles wherever located within the United States against loss or damage caused not only by fire, explosion, self-ignition and lightning, but also loss or damage while on board a railroad car caused by derailment or collision, or on board a steamer caused by stranding, sinking, burning, or collision; also damage (if amounting to at least \$25) by theft.

There are two forms of policy, known as "valued" and "non-valued." In the valued form the amount insured is accepted by the company and the assured as the value of the car, whereas in the non-valued form the actual cash value of the car at the time of the loss, with proper deductions for depreciation, must be determined by agreement or appraisal. The rates for the non-valued form are 25 cents less per \$100 of insurance than for the valued form, but from the standpoint of the assured the valued policy is preferable. For electric cars the rate is 2 per cent. while for other kinds of power it varies from 2½ to 4½ per cent., depending upon the ratio which the original cost bears to the amount for which it is insured, and the age of the car. For next year and this year models the rate is not less than 2¼ per cent. and for models three seasons older than this year not less than 2¾ per cent.

These rates do not cover collision damage on the road or damage to the property of others. Protection against either or both of these contingencies may be obtained in connection with the special automobile policy upon payment of an additional premium, based upon the horsepower of the car. For a low-priced car this would be about \$63 for full coverage, or \$28 if \$25 is deducted from the damage sustained. For high-priced machines the average premium is about \$100. The premium for insuring owner's liability for damage done to the property of others runs from \$12 for a 20-horsepower car to \$26.50 for a 60-horsepower car. It is probably safe to say that the majority of people do not insure against collision or property damaged, but it is strongly advised.

In addition to the foregoing forms of insurance, the assured can obtain liability insurance protecting him against damages for which he may be liable by reason of personal injuries to others caused by his car, but this is a different branch of the business and rather beyond the scope of this article.

A. B. ROOME and PHIL M. RILEY.

### GEARING MOTOR CARS LOWER

ONE of the most commendable features common to the 1912 models of several important motor cars, including high-priced and even six-cylinder machines, is lower gearing. For stock pleasure cars this feature has everything to justify it. Just what it means is an exchange of unnecessary speed for great flexibility. Racing with special cars in announced events on proper courses will not be affected as a result of this, but the tendency will be toward a safer and more legitimate use of country highways.

There has been a speed mania during the last two years and most high powered cars have been geared to make fifty to seventy miles an hour, which was not only unlawful on any public thoroughfare but dangerous as well. Few cars of the same power this year will do better than forty to fifty-five miles an hour, which still leaves a margin of eleven to twenty-six miles above the highest legal speed rate of twenty-nine miles an hour in New York State. This not only ensures all necessary speed on the level, but also enough to take ordinary hills on the high gear. Moreover, being geared low, the motor will stand a greater load in hill climbing without knocking or stalling than were it geared higher. This reduces the amount of gear changing, makes driving much easier, and saves wear and tear on the transmission.

Going to the other extreme, the same thing holds good for city driving in congested streets. Here, too, less gear changing is necessary because the car can be throttled down to very slow speed on the high gear without lurching or stalling of the motor as would result with higher gearing. Not only does this conserve all parts of the mechanism, but it reduces the noise in our city streets as well—for gear changing is noisy.

Aside from longer life of the transmission,



# LEE TIRES

## for Winter Service

In ice and snow on dusty, slimy, slippery streets you need an anti-skid that grips the road like a bulldog.

**Lee Zig-Zag Tires** differ radically in appearance and in service. Scientifically correct oblique and longitudinal ribs prevent all slipping. Unique design and pyramidal construction make packing with snow and slush impossible. Under the hardest conditions they have proven their anti-skid efficiency, and given exceptional mileage.

**Lee Puncture-Proof Tires** are now available in the Zig-Zag Tires for winter use. Their performance is even on trucks and heavy cars. It has been so convincingly that they are the real safety, freedom from punctures and surprising mileage that motorists have given in enthusiastic praise wherever they are used. One firm reports that their fleet of these tires gave a total mileage of 84,000 — an average of 1,400 miles per tire without a puncture. We have even better records than this — write for booklet K containing 1000 pictures.

**OUR STORES:**  
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**LEE TIRE & RUBBER CO.**  
 CONSHOHOCKEN, PA.  
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Turn Miles into Savings

## THE OHIO ELECTRIC

REPRESENTS THE ACME OF PERFECTION IN ELECTRIC CARS  
 WITH PRICED, TRAINED, THOROUGH

THE OHIO ELECTRIC CAR CO. Dept. F, Toledo, O.

## WARNER AUTO-METERS

are needed by all automobile owners to properly equip their car

WARNER INSTRUMENT CO.  
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## PACKARD MOTOR CAR CO.

Detroit, Mich.

A few minutes spent with the Overland catalogue will quickly convince you that any Overland car costs you from twenty to thirty percent less money than any other identical car made. Write for a copy of this catalogue today.

**The Willys-Overland Company, Toledo, Ohio**

The World's Finest Footwear

# THOMAS CORT SHOES

For Men and Women. Strictly Hand-Sewed and Custom Quality. For Street, Dress and Sporting. \$8 to \$15. Send for Style Brochure.

THOMAS CORT, NEWARK, N. J.

## Three Magazines For Every Home

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 Beautiful, practical, entertaining.  
 \$4.00 a year. (Twice a month.)

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 interpreting to-day's history.  
 \$3.00 a year.

**THE GARDEN MAGAZINE—FARMING**  
 telling how to make things grow.  
 \$1.50 a year.

**DOUBLEDAY, PAGE & CO.**  
 Garden City New York



## No Other Electric Is Controlled Like the Rauch & Lang

There's a point about Rauch & Lang Electrics that's vitally different from anything in any other car. It is the Rauch & Lang control—the utter simplicity of it.

Here is a lever that does all the driving through the simple motions of pushing it forward and pulling it back. It starts the car slowly without a jerk. It increases the progress with a gradual flow of power. No "jumping" from one speed to another. It retards the car with an electric brake—you simply pull the lever back. It grips the wheels tight and stops the car instantly if pulled all the way back. And it is, of course, the natural impulse to pull it way back in emergencies.

There can be no mistake with this lever—no matter in what position it is—no matter at what speed—for all power can be instantly shut off by simply dropping the hand on the metal ring at rear of handle. But the lever must first be brought back to neutral before the car can start.

Accident through forgetting is thus made an impossibility. Twelve-year-old children drive Rauch & Lang's. There was never a vehicle simpler to operate. This control alone is a vital reason why you should see this car.

The new Rauch & Lang's are on show in your city. You'll be surprised at their beauty and their mechanical excellence.

Send in your name now for an early demonstration.

### The Rauch & Lang Carriage Company

2332 West 25th Street




Exide Battery standard equipment. Special Electric Pneumatic or Metz High-Efficiency Cushion Tires optional.

Club Roadster

**Cleveland**  
Since 1904

MODELS:  
 Stanhope  
 Coupe, Demi-Brougham  
 Victoria  
 Brougham  
 Landauette  
 Coach  
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 Club Roadster

## Pergolas—Ready to Set Up



Now is the time to erect one. Shipped in crated sections. Anyone handy with tools can assemble them. Planned by experienced architect. Correct design—attractive. Price \$30.00 up. Send for catalog.

**THE PERGOLA CO.**  
 924 Association Bldg.  
 CHICAGO

One of our Pergolas as erected.

## Filter Your Entire Water Supply Twice

Install A Paddock Double Water Filter and all the water you use will be twice filtered through emery, the hardest substance known excepting only the diamond.

Send today for catalog

**ATLANTIC FILTER CO.**  
 311 White Bldg. Buffalo, N. Y.

Nothing so beautifies a room as the right lamp. It is the crowning touch of refinement to the properly furnished room.

## HANDEL LAMPS

possess an individuality and beauty impossible to excel or duplicate. If you wish to put into your home a lamp that will always radiate beauty and good taste, examine Handel Lamps at your dealer's today. Handel Lamps are made in many styles for electricity, gas and oil, and are suitable for every purpose of illumination. For sale at all leading jewelers and lighting fixture dealers. Where not obtainable, we will ship direct. Prices range from \$10 to \$150.

Our booklet, "Suggestions for Good Lighting," sent upon request.

**THE HANDEL COMPANY**  
 382 East Main St., Meriden, Conn. New York Showrooms, 64 Murray St.





### Franklin Little Six

30 H. P. \$2800

Six cylinders in a small car—that is the story.

A car with the smoothness and flexibility of the big "sixes" but without their expense.

A "six" of its type has been so generally desired and the Franklin "Little Six" meets the requirements so fully that it is first among all small cars—the car of the year.

Write for new catalogue

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low gearing effects another saving in the cost of motor-car operation. By reducing speed, heavy wear and tear on all parts of the car is greatly decreased, and this is especially true of the tires, which usually form an important factor of the repair bill. Particularly is this true of heavy cars which place great strain upon their tires. In fact, low gearing will prove of greater importance to big cars than any others, although it is a benefit to all.

RAYMOND P. MASON.

### THE ALETIA ARGILLACEA TAKES A TRIP NORTH

**D**URING the month of September, last year, at a time when we thought we were safe from insect pests in our fruiting orchard, came a new enemy.

We awoke one morning and found he had come without announcement or warning and with him came his brothers and his cousins, by the thousands. At first we thought it was the codling moth, returned for an extra special session. But upon close examination, it proved to be the adult of the common cotton caterpillar (*Aletia Argillacea*), so destructive in the Southern cotton fields.

It is generally supposed that this insect was carried north by the unusually high winds that prevailed early in September. They were found as far north as the Great Lakes, in cities as well as in the rural districts. Letters from Missouri and other Western states, indicate that they did not appear there.

These moths first attacked our ripening fruit—peaches, pears, and late grapes. One or more small holes were bored in the ripest portion of



The moths bored into the ripest portion of the fruit and sucked out all the juice, leaving only the skeleton fibres beneath the skin

the fruit and from these holes the juice was sucked out, leaving only the skeleton fibres down to the pit or core of the fruit. All the outer skin was left intact.

As many as six or eight would sometimes crowd on one peach and the entire fruit would be spattered over with ugly, little sticky brown spots. Unless disturbed, they remained on the fruit first attacked until all the juice was extracted. But as often as they were disturbed, they would alight on new fruit and proceed to make new holes. Of course, once the fruit was perforated, decay set in around the affected part.

We lost no time picking all the ripe fruit and then found they were attacking our October peaches. These had to be picked, although they were very hard and should have been left on the trees at least two weeks longer. Fortunately, they were quite large and ripened nicely in the packing boxes.

One would suppose that the moths were now cornered, but not so. They next attacked the Kieffer pears. These were coloring beautifully and we hoped to let them hang on the trees a little longer. But they had to be picked. Nothing daunted, the moths took to the late apples and perforated the largest quinces.

By October first, we had picked all the fruit



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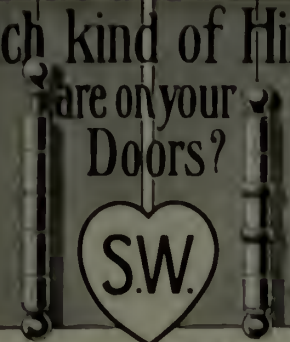
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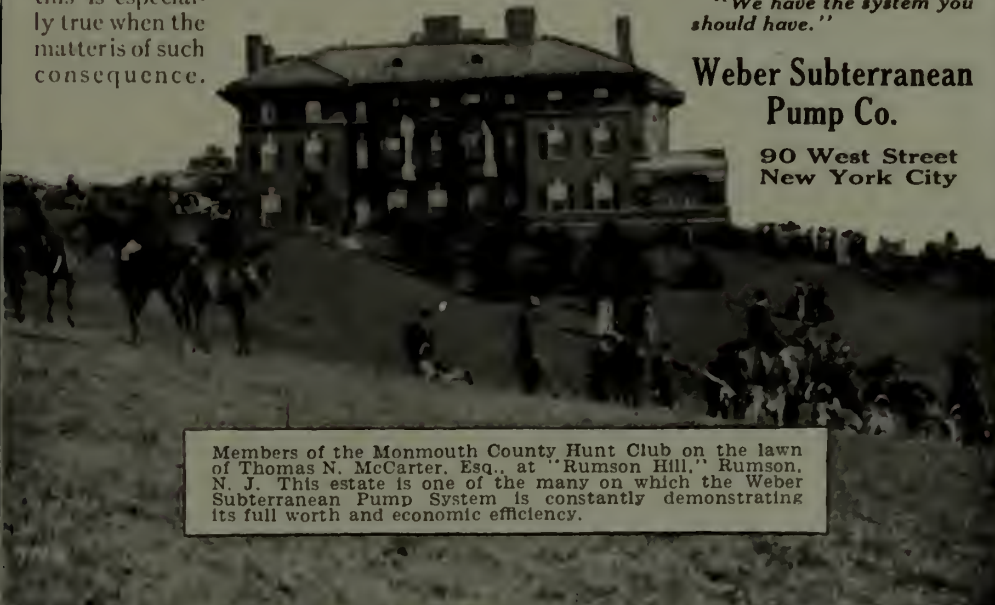
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in the orchard. Tomatoes and even the paw paws in the woods were similarly attacked.

Downtown in the shipping districts and among the commission houses they were very numerous and damaged the packed fruit of all kinds. At night these moths gathered upon the telephone poles in the vicinity of these places in such large numbers as to cover the surface almost entirely.

Our good little feathered friends, the Nut-hatch, consumed many of these insects. It was especially interesting and gratifying to watch



As often as the moths were disturbed they attacked new fruit: apples, grapes, pears, peaches, quinces, and tomatoes were destroyed by them

them cram themselves, early in the morning, with these large, fat moths. The chickens had their share too, and every large spider web held at least a half dozen.

The most we could think to do, in that direction, was to set out the night lamps and reflectors and many were destroyed in that way. But there are thousands and thousands still to be accounted for. We think they just died when the thermometer dropped to 45° and we hope they left us no legacy more formidable than an unpleasant memory.

P. B. RUGGLES.

### IS THE DAHLIA WORTH WHILE?

(Continued from page 26)

frost arrives and the crop is lost. Last year's experience, however, seemed to set at naught all this reasoning, and outside of the cooler regions of New England, hardly anybody succeeded in obtaining a full crop of flowers, whether from early or late planting.

The dahlia is not really particular as to its soil. It likes a moderate, average garden soil, well tilled and moderately moist, but some of the finest dahlias that grace the exhibition tables of the September shows are grown on sandy soils. It seems to demand water in the soil rather than heavily manured land. The common notion that the dahlia is a gross feeder, requiring heavy manuring, is probably due to the fact that manured soils hold a considerable quantity of water.

The plants do best if given plenty of room to develop. Five feet apart each way is none too much, but, on the other hand I have seen them growing well with only four square feet allowed for each root! It is better to allow only one sprout to develop from each root, and if this one sprout has its tip pinched out when just a few inches high to induce branching, a sturdy bush will be developed, that should not need any staking to support it later on. Some of the largest growers do not have a stake on their premises.

Not the least interesting thing about the dahlia, too, is that you really have to look after it through the winter. It won't do to leave it in the ground except in the extreme South. North, where it must be taken up, the proper winter condition must be provided. Not that it is difficult to do this, but every now and then somebody fails to carry the old roots successfully through the winter. They must not get too cold; a temperature of about 55 degrees, or slightly below that, will be quite safe. Neither must they be allowed to dry out.

The old roots can be taken up on the approach of winter, slightly air dried, and taken into the cellar. You can keep them in boxes or barrels, or if there is space spread out on the cellar floor. The concrete floor of a cellar of a dwelling house heated by a furnace has kept over many a lot of dahlia roots; put them in a remote corner and cover them with ashes from the furnace. These ashes never get quite dry and that is good for the roots. If they are not buried thus, they must be watched from time to time and if signs of shriveling appear, cover the pile with heavy

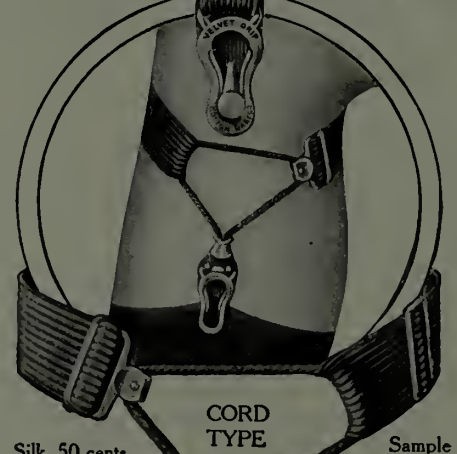
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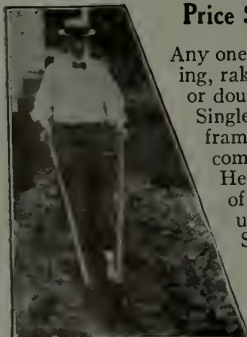
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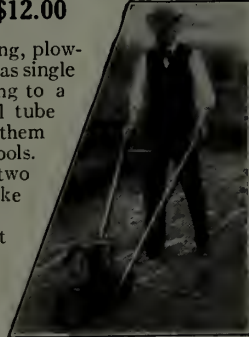
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cloth or even newspaper and sprinkle water over the top.

On the other hand, if growth starts, it is evident that there is too much warmth and some means must be taken to check it. With these little precautions, the storing is an easy matter. When planting time comes merely take the roots out, dig a hole in the ground and plant them.

The spot where you are to grow dahlias must have exposure to the sun and should have protection on the side whence come the prevailing summer winds.

An opportunity that should not be missed by one who wants real enjoyment in growing flowers lies in growing dahlias from seed. Singles or doubles can be raised with equal success. Whatever you get will be worth while, with the possibility ever present of attaining something of superlative merit. The glorious uncertainty of watching the development of the plant and nursing it along until it expands its unknown beauties has a fascination that must be experienced to be in any sense appreciated. Probably, from a packet of seeds costing but a few cents, you will raise a hundred plants, no two alike.

Sow the seed in March, in frames, and treat as you would any other tender annual. If you are not particular to possess yourself of the named varieties, this is the really economical way, and one that offers possibilities of pleasure to any one who owns a garden and a coldframe.

I hesitate to suggest varieties. They are being thrown at us so fast and furiously that the favorites of to-day may be discarded by to-morrow. The only safe and sane way to choose varieties is to go to a collection of dahlias and pick out those which suit your own fancy for the purpose you have in view.

Each commercial grower has his pets and if you become a dahlia enthusiast, in a short time you, too, will have your own list of favorite varieties that will differ from those of any one else.

In a symposium of dahlias for the home garden, given in *The Garden Magazine* for May, 1911, there are several selected lists, of twelve colors in each class, to which the reader might refer with advantage. There are, however, two or three varieties that I would by all means include: Clifford W. Bruton (decorative) as a good cut flower in the yellows; A. D. Levoni (show) pale pink; Lord Lyndhurst (decorative), red; as white, Perle de la Tête d'Or (decorative); Libelle (cactus) with a sort of a purplish color; and Frank Smith, an ideal, very dark-colored fancy. In the pompons Snowclad, white, is always deserving of a place; and when it comes to singles, grow the Twentieth Century type — any of them, all of them!



Stewart Edward White

### A WORD FROM THE EDITORS

THE series "Beautiful America" will be continued in COUNTRY LIFE IN AMERICA for March 1st, with a graphic description of "The Great Southwest" by Stewart Edward White, who knows that section of the country like a book. His article will be illustrated with the finest scenic photographs we

# New Lilacs on Their Own Roots

OF LATE years there has been a multitude of new varieties of Lilacs grown and many of them have very great beauty, but unfortunately, almost all the stock offered, both in this country and Europe, has been budded on privet and is practically worthless, for lilacs grown on this are certain to die in a few years. Nurserymen bud Lilacs on privet because they can produce a large stock quickly and inexpensively, but one Lilac on its own roots is worth a score of budded plants.



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- Amethystina.** Very dark reddish purple. 75c.
- Alphonse Lavalle.** Double, large panicles; blue, shaded violet. \$2.
- Bertha Danman.** Pure white; very large panicles of flowers; fine. \$2.
- Charles Joly.** A superb dark reddish purple variety; double. \$1.
- Congo.** Bright wallflower red. \$1.
- Dr. Lindley.** Large, compact panicles of purplish lilac flowers; dark red in bud; very fine.
- Dr. Masters.** Double; lilaceous.
- Dame Blanche.** Double; white.
- Emile Lemoine.** Double; very large flowers of fine globular form; rosy lilac, beautiful.
- Geant des Batailles.** Bright reddish lilac, in large trusses. 75 cts.
- Jeanne d'Arc.** Double; enormous spikes; pure white flowers, large and full; buds creamy white.
- La Ville de Troyes.** Large, purplish red flowers; fine. \$1.
- La Tour d'Auvergne.** Double; purplish violet.
- Le Gaulois.** Rosy lilac; a very lovely variety. 75 cts.
- Lemoinei fl. pl.** Double; carmine-violet.
- Leon Simon.** Double, compact panicles; flowers bluish crimson.
- Madame Lemoine.** Superb; double; white. \$1.
- Madame F. Morel.** Violet pink; large and fine; single.
- Madame Casimir-Perier.** Creamy white; lovely double.
- Mad. Abel Chatenay.** Double; milk white. \$2.
- Marie Legraye.** Large panicles of white flowers. The best white Lilac. 75 cts.
- Michael Buchner.** Dwarf plant; very double; color pale lilac. \$1.
- Negro.** Very dark violaceous purple.
- President Carnot.** Double, lilac tint, marked in center with white. \$1.
- Rothomagensis.** Violaceous lilac. 35 cts.
- Souvenir de Louis Spaeth.** Most distinct and beautiful variety; trusses immense; very compact florets, very large; the color is deep purplish red. \$1.
- Villosa Lutea.** A late-flowering species with deep pink flowers; extremely free-flowering and effective. \$1.
- Vivand Morel.** Long spikes; light bluish lilac, center white; double.
- Wm. Robinson.** Double; violaceous pink.

We started growing choice named Lilacs on their own roots ten years ago and now have a very large and fine stock and the only stock in America. These Lilacs are strikingly distinct and beautiful. The flowers of the double varieties are very lasting.

We have the largest, finest and most comprehensive stock of hardy plants in America, including three hundred varieties of the choicest Peonies, one hundred varieties of Japanese and European Tree Peonies, and also the largest collection of Japanese Iris in the world and an unsurpassed collection of named Phloxes. Our illustrated catalogue describing these and hundreds of other Hardy Plants, Trees, Rhododendrons, Azaleas and Shrubs, will be sent on request.

"A PLEA FOR HARDY PLANTS," by J. Wilkinson Elliott, contains much information about Hardy Gardens, with plans for their arrangement. We have made arrangements with the publishers of this book to furnish it to customers at a very low price. Particulars on request.

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**337 Fourth Avenue Pittsburg, Pa.**

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Spring Planting**

WE invite everybody interested in improving their lawns and gardens to visit our Nursery to see our Products growing. This is the most satisfactory way to purchase. We shall gladly give our time, attention and any information desired. Our Nursery consists of 300 acres of highly cultivated land and 500,000 square feet of greenhouses and storehouses, in which we are growing Nursery and Greenhouse Products for every place and purpose, the best that experience, good cultivation and our excellent facilities can produce, placing us in a position to fill orders of any size.

**ROSE PLANTS** We have several hundred thousand that will bloom this year. Order now from our Illustrated General Catalogue for Spring Delivery

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**OUR NEW GIANT FLOWERING MARSHMALLOW.** Everybody should be interested in this Hardy New Fashioned Flower. It will grow everywhere, and when in bloom is the Queen of Flowers in the garden. Blooms from the early part of July until the latter part of September.

**OUR ILLUSTRATED GENERAL CATALOGUE NO. 35** describes our Products; is comprehensive, interesting, instructive and helpful to intending purchasers. Will be mailed free upon request.

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**OUR PRODUCTS** give permanent satisfaction because they possess the highest qualities created by our excellent standard of cultivation.

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### Gladioli

are the most beautiful and useful flowers in the garden. They rival the orchid in variety and delicacy of shading, and open, flower after flower, in a succession of fresh bloom lasting a week or ten days. And Gladioli can be grown as easily as potatoes, by using good bulbs and following our simple planting directions.

### Cedar Acres Gladiolus Bulbs

are grown under the supervision of a man who is devoting his life to the production and the development of this one flower. It is significant that the Cedar Acres Gladioli bring in the cut flower market a price six times as high as the market rate. These blooms are raised in fields, without stakes or watering; you can grow them just as well.

### SPECIAL OFFER

**DAWN (Tracy's)** The most beautiful shell pink Gladiolus in existence. Should be grown in all gardens.

- |                              |                           |
|------------------------------|---------------------------|
| Liberty, Red                 | Angusta, White            |
| Independence, Rose pink      | Sunrise, Yellow           |
| Mrs. James Lancashire, Cream | Jean Dieulafoy, Cream     |
| Sanguine, Brilliant red      | Harvard, Crimson          |
| America, Light pink          | Isaac Buchanan, Yellow,   |
| Baron Josef Hlot, Dark blue  | slightly marked with rose |

One each of the above named varieties for \$2.00; two each for \$3.50; six each for \$10.00. Prepaid.

Mrs. Francis King, (The Original)  
A most beautiful flame pink. Immense flowers on a spike growing 4 ft. high, with 18 to 20 flowers 6 to 8 open at one time. A magnificent variety.  
\$4.00 per hundred; 25 at the hundred rate.


Send for beautiful, illustrated booklet, giving the real truth about many leading varieties. We will gladly answer questions regarding the Gladiolus, its culture, varieties, etc.

**B. Hammond Tracy**  
Cedar Acres, Box 395. Wenham, Mass.



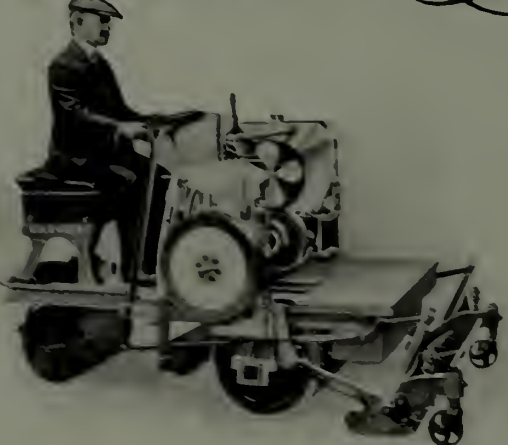
Mrs. Francis King (Original)  
See Offer

*Caldwell Lawn Mower Co.*



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THESE MACHINES ARE USED ON MANY OF THE LEADING GOLF COURSES *and* PUBLIC PARKS THROUGHOUT THE UNITED STATES. THEY IMPROVE *and* BEAUTIFY THE LAWN AS NO OTHER MACHINE CAN *and* AT MUCH LESS COST

*Send for Catalogue*

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have been able to secure by months of careful investigation. It is a combination of literary and photographic work of unusual merit.

Other features of the number will be: "In the Haunts of the Osprey," by Howard H. Cleaves, one of the most successful of the younger American ornithologists and nature photographers. A story of the life and habits of the fish-hawks of Gardiner's Island. Photographs by the author.

"A Little Garden in Old Salem," by Wilhelm Miller. Descriptive of the Robinson garden at Salem, Mass. A unique and uncopiable garden but one whose principles can be applied by all. Photographs by Arthur G. Eldredge and Stickney.

"The Case for the Modern Collie," by R. A. Sturdevant. A word for the present-day show type, refuting the charge of his detractors that he is merely a useless ornament. Illustrated with photographs.

"Fighting Frost with Fire," by Enos A. Mills. A vivid picture of a six-day battle in the Grand Valley, Col., in which thousands of dollars' worth of fruit was saved by a systematic heating of the orchards with smudge-pots. Photographs by Frank E. Dean.

"The Lucerne Widow," by George Frederic Stratton. The true story of some Western women who are establishing farm homes for their families in spite of material obstacles.

The Homebuilder's Supplement will include "The Water Tower as an Architectural Feature," by Phil M. Riley; "A Georgian Colonial Mansion Reclaimed," by Mary H. Northend; "A Country Home Within Commuting Distance for Less Than \$1,000," by Frances B. L. Howe.

The Departments: The Amateur Photographer; The Nature Club; Stock and Poultry; Country Life Abroad; The Market; Experiment Station News.

The following issue, published March 15th, will be the Spring Building Number.

#### A MOVEMENT FOR BETTER FARMS IN AMERICA

A NEW movement looking toward better farming in this country is worthy of publicity. It is the work of the National Soil Fertility League, whose headquarters are in Chicago. The purpose of this organization is "to make farming more profitable by securing appropriations to agricultural colleges, thus enabling them to maintain a trained agriculturist in every community to assist farmers in getting into general practice the best methods of farming known to science."

Among those whose names appear on the advisory board are President Taft, Secretary of the Treasury Franklin MacVeagh, James J. Hill, William Jennings Bryan, B. F. Yoakum, Alvin H. Sanders, Speaker Champ Clark, F. D. Coburn, Dr. Edmund J. James, J. M. Studebaker, and others. Mr. H. H. Gross, one of the principal figures in the good roads movement for several years, is the president and active leader of the league.

Proceeding on the theory of actual demonstration, by the farmer himself, under the guidance and with the cooperation of a capable man who possesses the knowledge of the most practicable methods and processes for securing the best soil results, the league will seek and urge Federal aid as one of the essential early steps. A bill has been prepared, for introduction at an early date, providing for appropriation of sufficient funds to start the movement, each state receiving such support to provide an equal amount, and the amounts to increase annually until a maximum averaging ten cents per capita per annum is reached. At that point it is carefully estimated that the nation's crop yields would have increased at least 10 per cent., meaning several hundred million dollars added to the natural resources, the conservation of soil, the correlation of all the forces interested in building up a permanent agriculture, an attractive and effective home interest for the younger generation of farm people, and a decided decrease in the cost of living.

One of the most potent arguments in favor of the movement is the endorsement of its purposes, plans, and methods by every agricultural college in the country, as well as men and women who have studied the conditions and possibilities of America's agricultural resources from every view point.

### New and Rare Shrubs, Vines and Bulbs from China



*Clematis montana rubens.* See illustration. New pink, summer-blooming climber. Plants from 3½ in. pots, each 75 cts., doz. \$8. Plants from 2½ in. pots, each 50 cts., doz. \$5.

*Ampelopsis Thomsonii.* Beautiful tricolor Woodbine, changing in the autumn to rich red. Plants from 3½ in. pots, each 75 cts., doz. \$8. Plants from 2½ in. pots, each 50 cts., doz. \$5.

*Lilium myriophyllum.* Blooms in July; flowers white, suffused with pink; canary-yellow throat. Delightfully fragrant. Bulbs each \$1.50, doz. \$15.

*Lilium Sargentiae.* Blooms in August. Enormous flowers, white shaded purple, fragrant. Bulbs each \$1.50, doz. \$15.

Do not fail to procure our Spring Catalogue which contains many new plants offered for the first time.

**R. & J. FARQUHAR & CO.**  
10 South Market Street, Boston, Mass.



# WINTER STRAWBERRIES



## PICK STRAWBERRIES

*From Your Own Garden  
Until After Snow Flies*

Just think of supplying your table from June to November with strawberries from your own garden! This any gardener—amateur or professional—can do with our wonderful everbearing variety "Americus." It bears all winter in the South. In the North, it bears from August to November the first year, and from June to November the second year. They are enormously productive, having borne for us in Oswego County, New York, at the rate of 10,000 quarts per acre!

### I KNOW OF NOTHING SO PROFITABLE TO GROW

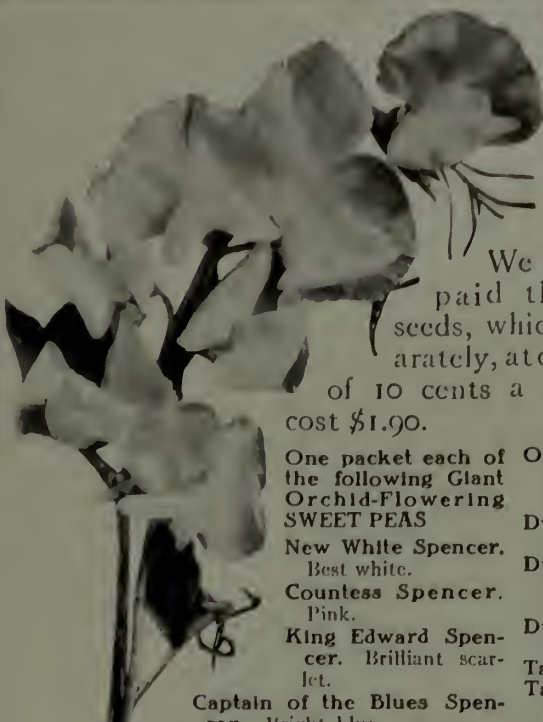
We cannot supply the demand at 25 cents a quart wholesale—a price at which one acre would net over \$2,000 per acre! Anybody can grow this hardy variety, as they require no more skill than ordinary berries. Why don't you set out some of our "Americus" this spring and next fall and the year following have fine berries for your table and to sell when prices are highest?

Prices of strong, well rooted plants, \$2.50 per dozen; \$20. per 100; postpaid. Order before the supply is exhausted. You should have our book, "Farmer on the Strawberry." Price 50 cents or free with orders for \$10. worth of plants.

We have 12 varieties of everbearing strawberries and all kinds of other Berry Plants, Grapes, Currants, Asparagus, Roses, Shrubs, Fruit Trees, Seed Potatoes, etc.

Write for beautifully illustrated free catalog. Do it now.

L. J. FARMER, "The Strawberry Man," Box 280, Pulaski, N. Y.



## Attractive Seed Offer FOR 50 CTS.

We will send pre-paid the following seeds, which, if sold separately, at our retail prices of 10 cents a packet, would cost \$1.90.

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| One packet each of the following<br>Orchid-Flowering SWEET PEAS<br>New White Spencer. Best white.<br>Countess Spencer. Pink.<br>King Edward Spencer. Brilliant scarlet.<br>Captain of the Blues Spencer. Bright blue.<br>Aurora Spencer. Best striped.<br>Primrose Spencer. Pale yellow. | One packet each New<br>Giant-flowering NASTURTIUMS<br>Dwarf Beauty. Light scarlet.<br>Dwarf King Theodore. Scarlet maroon; dark foliage.<br>Dwarf Luteum. Light yellow.<br>Tall Schulzi. Scarlet.<br>Tall Pearl. Cream white.<br>Tall King Theodore. Scarlet maroon; dark foliage. |
|--|--|

### One packet each of the following ASTERS

- |  |  |
|--|--|
| Violet King. Beautiful deep violet.<br>Early Snowdrift. Earliest white.<br>Improved Crego Pink. Giant pure shell pink. | Hohenzollern Rose. Ostrich-plume rose.<br>Cardinal. Beautiful bedding scarlet.<br>Royal Purple. A gem in color and size. |
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We will include one packet of the New and very Popular African Golden Orange Daisy, a charming annual that is easily grown.

All the above varieties are described in our 1912 catalogue, 120 pages, telling all about seeds which is sent free.

*Stump & Walter Co.* 50 Barclay St. NEW YORK

## The A to Z of Gardening

EVERYTHING that can possibly interest the flower enthusiast, the home gardener, the trucker, the farmer and even the novice, is fully treated and explained in

### Dreer's Garden Book

CONTAINS 1,000 splendid photo reproductions, 4 beautifully colored pages and 6 duotone plates. Declared by American gardening experts to be the finest and most complete catalogue of seeds, plants and bulbs published.

#### Easy Instructions for Amateurs

FULL directions for growing almost every plant and vegetable. We've 5 new vegetables you'll want to know about and many varieties of novelties in flowers.

Send for DREER'S GARDEN BOOK today. Mailed free.

DREER'S PEERLESS GIANT PANSIES. A mixture of the most exclusive giant sorts in a bewildering range of rich colorings. Sown out of doors by the end of April, will bloom from July till snow flies. Special packets containing enough seed to produce over one hundred plants, 10 cents per packet. Garden Book with each order.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.



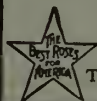
## An Enchanting Bower of Perfumed Splendor

A TRIUMPHAL ARCH—typical of Conard & Jones supremacy in rose propagation, culture and distribution. A living monument to the success of this company's unchangeable policy of *guaranteeing growth and bloom of every plant it sells.* And a bow of promise to you, assuring a home and garden filled with the matchless beauty and delicious fragrance of the Queen of Flowers.

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Rose growing with us is a science. America's foremost rose propagator is here. With a background of 50 years' experience in selecting and developing the choicest kinds which America and foreign lands have produced, we now present unrivalled varieties for arbors, heds, gardens, trellises, etc. Select your roses from our large, beautiful new ROSE BOOK, and be assured that the

bushes will be suited to your locality, will be vigorous and healthy, and will create permanent loveliness. By all means write for this authoritative ROSE BOOK. It shows leading roses in natural colors, contains valuable data on planting, fertilizing, cultivating, etc., and a complete Rose Lover's Calendar. And it explains our new Free Delivery Offer. Write for a free copy to-day.



THE CONARD & JONES CO., Box 125, West Grove, Pa.

Rose Specialists—50 years' experience.



# Wagner Hardy Flowers and Shrubs for Fine Effects

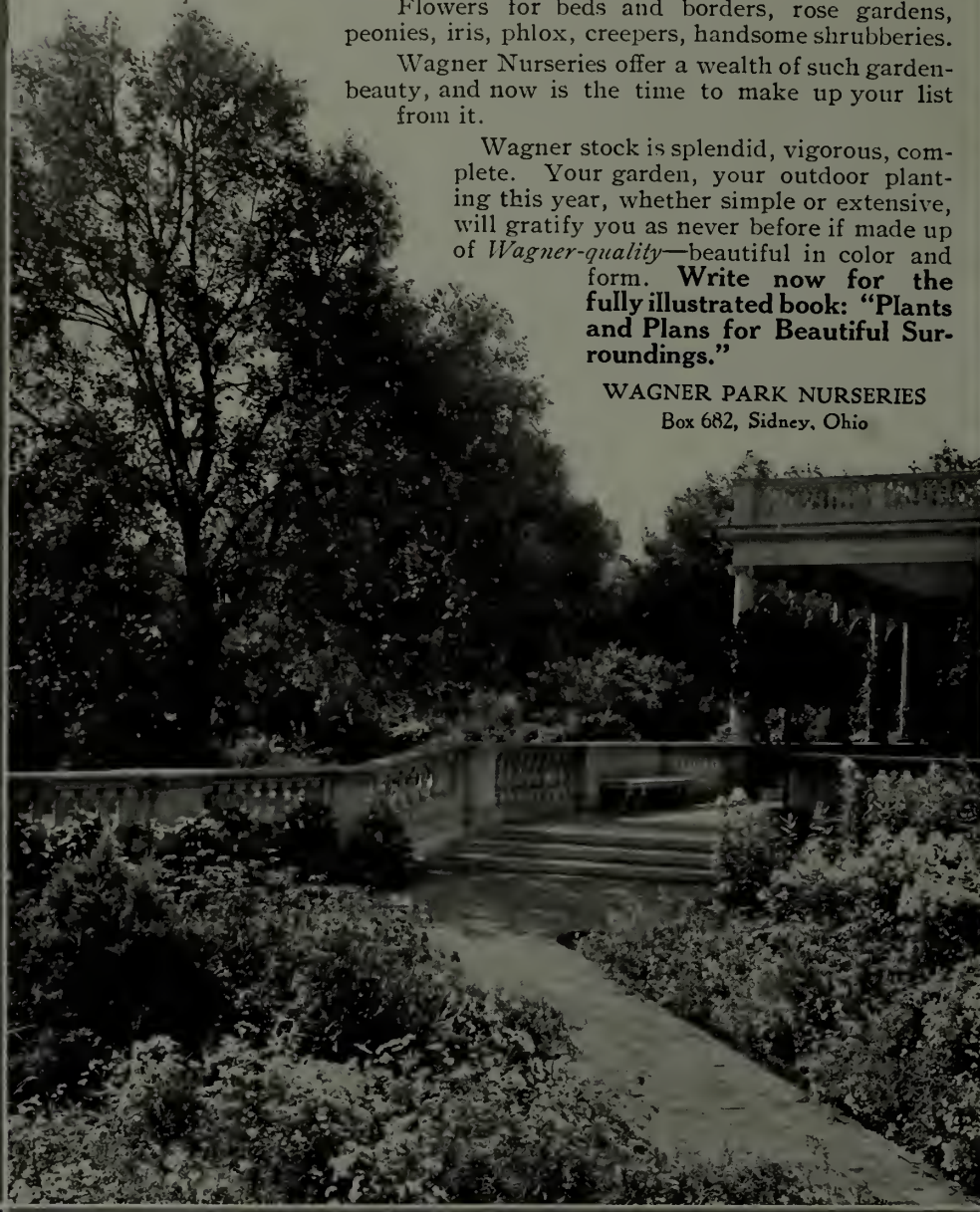
Order now. We ship at Planting Time

Flowers for beds and borders, rose gardens, peonies, iris, phlox, creepers, handsome shrubberies.

Wagner Nurseries offer a wealth of such garden-beauty, and now is the time to make up your list from it.

Wagner stock is splendid, vigorous, complete. Your garden, your outdoor planting this year, whether simple or extensive, will gratify you as never before if made up of *Wagner-quality*—beautiful in color and form. Write now for the fully illustrated book: "Plants and Plans for Beautiful Surroundings."

WAGNER PARK NURSERIES  
Box 682, Sidney, Ohio



## FARMING OPPORTUNITIES IN OHIO

OHIO'S two great waterways, the lake on the north and the river on the south, were the first channels of communication between the East and the West. When the railroad surveyor made his appearance he sought, first, the shortest line, and second, the easiest grades, and both these requirements he found fulfilled in Ohio; hence the state has been crossed by line after line of transcontinental railway.

The immense stores of coal in the southeastern part of the state, and the growth of large cities along the northern border, have caused the building of many north and south railroads, so that the state is now netted with more than 16,000 miles of steam railway, and nearly 2,000 miles of electric railway, including branches and side track, and few farms are more than an hour's drive from a railway station.

### THE LAY OF THE LAND

The topography of Ohio is that of a great, flat plain or gently undulating table land, lying at an average elevation of about 1,000 feet above the sea. On the north this plain gradually descends to the shore of the lake, where the elevation is 700 to 800 feet, and toward the south and southeast it has been carved into hills and valleys by the erosion of the streams flowing into the Ohio River, the hills becoming more numerous and abrupt as the river is approached, but nowhere reaching an elevation greater than 1,200 to 1,500 feet above the sea, or 500 to 600 feet above the valleys lying between them. The watershed between the lake and the river drainage lies considerably north of the middle of the state, so that more than two-thirds of the total drainage is toward the river.



A farm scene in southeastern Ohio. A wooded hillside too steep for cultivation but rapidly growing in value

Geologically, Ohio may be divided into three principal areas, namely: (1) The coal measures in the southeastern third of the state, the surface rocks of which are limestones, sandstones and shales in alternation, giving rise to a great variety of soils, and the topography generally hilly. (2) The Waverly and Huron formations, a broad belt of sandstones and shales underlying the coal, beginning in the northeastern corner of the state, stretching across to the middle and then turning southward and gradually narrowing as the river is approached; also reappearing in the northwestern corner of the state and occupying Williams and Fulton counties and parts of Lucas, Henry and Defiance, thus covering in all about one-third the total area, and (3) below the Waverly and Huron, a broad belt of limestones, covering the state west of a line drawn through Sandusky, Columbus and the west line of Scioto County, excepting the northwestern area above named.

### THE SOILS OF OHIO

While the surface of the entire state, except two or three tiers of counties bordering the southerly trend of the Ohio River, has been worked over and modified by glacial action, yet the underlying rock has contributed in very large measure to the composition of the soils found above, and we find that the soils lying upon shales and sandstones are beginning to show a deficiency of lime. These soils, however, are usually more easily worked than the heavier clays overlying the limestones, and they respond readily to manuring and fertilizing,

## FERRY'S

Plant breeding and selecting has been our business for years. We market the results in the shape of thoroughbred vegetable and flower seeds. They grow good crops.

1912 Seed Annual Free on Request  
D. M. FERRY & CO., Detroit, Mich.

## SEEDS

## ROSES OF NEW CASTLE

Most rugged, hardiest Roses in America Plant them and make your Rose Garden a success. New Castle soil best adapted to Rose growing—hence our big success in growing healthy, vigorous Rose bushes. They carry all the strength and vigor of New Castle soil.

We grow and sell all best varieties of Roses, also Hardy Perennials, Shrubs, Plants, Bulbs, flower and vegetable seeds. Safe arrival guaranteed.

### ROSES OF NEW CASTLE—Free

Our 1912 edition, most famous rose book published. Profusely illustrated in colors—highest authority on rose culture. Gives all necessary information. Plan your Rose Garden now—send for this great book—it's free—write today.

### HELLER BROTHERS CO.

Rose Specialists, Box 231, New Castle, Indiana

## BEAUTIFY YOUR HOME GROUNDS AT SMALL EXPENSE

NORTHERN GROWN TREES, SHRUBS, SEEDS, and PLANTS are the foundation for PERMANENT SUCCESS

FREE Catalogue largely devoted to Landscape Architecture on Application

It will save you money and teach you how to improve and enhance the value of your home at small expense.



Beautiful Trees for boulevard effect.  
Useful and Ornamental Hedges.  
Stately Evergreens.  
Quick Growing Vines.  
Seeds that yield enormously.

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St. Paul, Minn.



## Something Special in English Garden Peas

**DON'T** be discouraged just because every time you have tried growing early peas they have been mostly vine or at the best yielded you but two pickings. You may have had the wrong peas. Most early peas are apt to be unsatisfactory, but not so with *Boddington's Early of Early's*; it grows vines only two feet high and yields pods  $3\frac{1}{2}$  to 4 inches long plumped out with succulent peas with the true marrowfat flavor. 60c. a pint; \$1.00 a quart.

Then there's *Earliest May*; *Early Bird*; and *Laxtonian*.

You can't go wrong on any of them.

If you want a fine neat, sugary pea that will cook green to go with your "lamb and mint sauce" on Fourth of July, plant *Boddington's Duchess*. The pods are so long they have been called by some, the "Green Telephone." Package 25c.; pint 60c.; quart \$1.00.

If you are looking for a good husky drought withstanding variety there's *Boddington's Prestige* at same price as *Duchess*.

Did you know that English grown peas are especially successful in this country? That's why we offer *Boddington's English grown stock*.

## Boddington's Garden Guide

Tells you the plain, common sense facts about these English varieties. In it you will also find straight from the shoulder facts about all other Quality vegetable and flower seeds along with valuable cultural directions and suggestions, written by gardeners who know. Send for this Garden Guide; we have a notion it will give gardening a new zest and interest for you.

Write for it now — and plan your garden now — pick out your seeds **now** — and so get things started **now** for an earlier and more successful garden this year.

## BODDINGTON'S SEEDS

Arthur T. Boddington  
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## Have a Better, Earlier Garden By Using Our Frames

**THEY** are veritable little portable greenhouses.

Plant your seeds in them right now and get a month to six weeks start.

No special skill or previous knowledge is necessary to insure your success. We will send you our Two P Booklet which gives you the "getting started" directions.

We are making these frames in six different sizes — the smallest is 11 1-2 inches wide and 13 inches long. Ten of them will cost you only \$6.25.

Then we have a combination offer of three different sizes, 16 frames in all, for \$13.00. We have a notion this is just about what you want.

Send for the Two P Booklet. It tells all about frames and their uses, and describes and illustrates the six different kinds we make.

## Lord & Burnham Company Greenhouse Designers and Manufacturers

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John Deere Plows, Cultivators, Harrows and Farm Tools

Look for our trade-mark—it will protect you against inferior, out-of-date goods. JOHN DEERE implements have taken the gold medal at every world's fair and international exhibition since 1840.

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Tell us what farm tool you want to know about and then ask for the big book, package No. 113.

John Deere Plow Co. Moline, Ill.



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## Northern Grown, HARDY PECAN TREES, For successful planting in Northern States.

*Acclimated Pecans*, huddled with bearing wood from *northern grown trees* upon *northern grown seedlings*, raised from *northern grown nuts*. We control five varieties of these *hardy, acclimated trees*. They have withstood temperatures *far below zero*, never known to winter-kill. These trees produce large, thin shelled, plump, meaty nuts, rich and delicious, selling for \$1.00 a pound. These trees *bear in 3 to 5 years*. Successful in almost any soil. Easy to cultivate and harvest.

*The Pecan a Wonderful Shade Tree.*

For park, lawn or driveway, the Pecan has few equals. Smooth, gray trunk, wide spreading branches, luxuriant foliage, rapid growth. Attains immense size. *Catalog of hundreds of trees, plants, roses, etc., mailed free*

**GLEN BROS.** 1903 Main St., ROCHESTER, N. Y.  
Glenwood Nursery  
Est'd 1866



Nuts shown in this border are genuine Mantura — large — paper shell — northern grown.

**W**E will mail you a package of this very unusual and beautiful African Orange Daisy, and a copy of our carefully prepared and illustrated 144 page catalog for 1912, (the best we have issued in all our 110 years of business,) on receipt of 10 cents in stamps or coin.

It will pay you to take time to read about this wonderful little flower in the small type. But the important thing after all, to you and to us, is to send for it. Write to-day.

We are fairly bursting with information you should have, and are planning to issue a little booklet once a month containing "suggestions about your garden."

These booklets will be "different"—we don't know just how else to describe them. They will be free to you in 1912; but we may charge for them another year when you find that you simply cannot do without them.

In planning these little books we are arranging them to make them "good-to-look-at," easy-to-read, and will try also to follow the advice of Josh Billings who said "I don't care how much you say if you say it in a few words."

They will be for busy people: the kind that accomplish things: shall we put you on the list? And don't forget to enclose the 10c. for the African Daisy. Send for the catalog anyway. It's mighty instructive and interesting, yet it's free. Write now.

*Thorburn's Seeds*  
(110 years in business in New York)

33c Barclay Street, New York

**African Orange Daisy**

**O**UR Manager says "No garden should be without this flower," and he should know. He also says "It is a rare and extremely showy annual from Namaqualand, South Africa, of very easy culture. The plants, of neat branchy habit, grow about 12 to 15 inches high and are exceedingly profuse in flowering. Its Marguerite-like blossoms, 2½ to 2¾ inches in diameter under proper cultivation, show a unique, glossy, rich orange-gold, with dark-colored disk surrounded by a black zone. It produces its pretty flowers very early after being planted out in the open ground in sunny situations and will continue to flower during the summer. Plant in soil not over rich."



so that many of the most prosperous farmers in the state are to be found in the Waverly belt. The upland soils of this belt are naturally better adapted to the small grains than to corn, that crop being more at home on soils which contain a larger supply of lime and humus.

**THE DOMAIN OF KING CORN**

Corn is the great crop of Ohio, the area annually devoted to this crop being about three million acres, as against about two million acres given to wheat, and a million and a half to oats. The rich valleys of the Scioto and the Miami have long been famed for their corn crops, but so little attention has been given to the preservation of the fertility of their soils that the yields in these regions are diminishing, and now the great corn crops are being harvested on the flat, black plains of the northwestern quarter of the state. This region was known as "the black swamp" until after the Civil War, but it has been reclaimed by drainage and it is now the garden of the state. That the exhaustion of the old corn fields is but a temporary matter is shown by the Experiment Station's experiments in the Miami Valley, where the yield has at once been brought up from forty-five bushels to more than sixty bushels per acre.



Cribbing the corn in northwestern Ohio until it can be taken to the elevators

The relative importance of corn among our cereal crops is becoming more and more appreciated. Wheat is grown in every country inhabited by civilized men throughout the temperate zones, and in soils of every description, but corn is far more restricted both in soil and climate, and lands adapted to this crop are steadily rising in value, so that to-day some of the highest priced farming lands in Ohio are to be found in these northwestern counties.

A few years ago in one of these counties two young men, one a tinner and the other an implement dealer, bought in partnership 130 acres of flat woodland, formerly covered with elm and other semi-swamp timber, the land being under water much of the time. The tinner continued at his trade but the other man went to work on the farm, clearing, draining, fencing and building. The young men had little money but they had character, and were able to get all the money they needed at a low rate of interest. In three years' time this land was cleared — the stumps being removed by dynamite; 15 miles of tile drain were laid; a good stable and a neat, eight-room house built, and the farm was surrounded and divided into several fields with a substantial wire fence.

Corn is the main crop on this land, and it grows on the rich black soil at the rate of 70 to 80 bushels per acre. The farm adjoins a thriving village in which there are three elevators, and would now sell for \$150 per acre. The purchase price of this farm was \$65 per acre; the draining cost about \$12 per acre, and the clearing, fencing and building would bring the total cost up to about \$100 per acre.

These black lands of northwestern Ohio are attracting the attention of western corn growers, and Illinois farmers are selling their corn farms at \$200 per acre and upward, and coming back to Ohio where they can get land equally adapted to corn for half or two thirds the money.

The market statistics show that 40 cents has been about the average price of corn in Ohio for a term of years, with a tendency to higher prices, and the Experiment Station, on land that is far inferior for corn production to that of the black lands of the northwest, is averaging more than seventy bushels per acre. The corn farmers calculate that the labor expended in producing, harvesting and marketing an acre of corn costs about ten dollars. Sixty bushels at 40 cents amounts to \$24, leaving \$18, for

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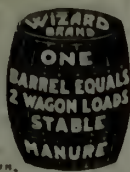
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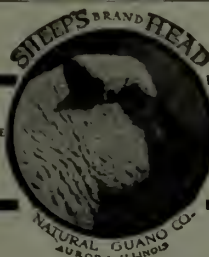
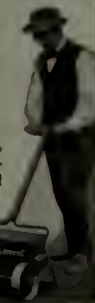


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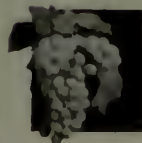
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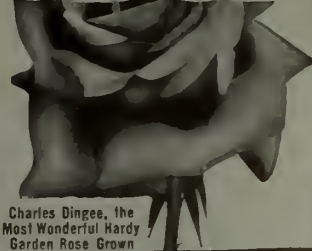
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interest on investment, or 6 per cent. on \$300. Not many farmers are realizing this yield, but it is a practicable possibility on a hundred thousand farms in Ohio.

The time will come, even on the black lands, when attention must be paid to the maintenance of fertility — in fact that time is already here — but it is easily possible to so manage the land that it will all the time return the cost of fertility maintenance in increased production.

THE SUGAR BEET

The sugar beet has established a foothold in northwestern Ohio, both soil and climate having proved to be well adapted to the culture of this plant. There are now two beet sugar factories in the state — at Fremont and Paulding — while the Michigan factories are also drawing supplies from this section.

The cost of beet production is much greater than that of corn. Planting, cultivating and lifting the roots is done by machinery, but the little plants must be thinned and the roots must be topped by hand. This backache work is often done by Russians and Belgians, who contract the work at about \$20 per acre when twenty acres or more are grown. The cost of the farmer's part of the work is still about \$10 — or more if the distance to the point of shipment is several miles. The factories have been paying at the cars \$5 per ton and upward, the price being fixed on the percentage of sugar, and the rate of production runs from ten to fifteen tons or more per acre. Some farmers in the vicinity of Paulding netted \$60 to \$80 per acre for their beets in 1910, over all cost of production.

POTATOES

While the cereals are the main dependence of the great mass of Ohio farmers, there are other crops of great local importance. In fact, there is probably no area of the same extent on the globe where the opportunities for a diversified agriculture are greater than in Ohio. Among these secondary crops potatoes rank next to the cereals in the area under cultivation. These are grown to some extent in the southern counties, but here chiefly as a truck crop near the larger towns, for the blight is so destructive in southern latitudes that only the earlier sorts are successfully grown. In northern Ohio, however, large areas are devoted to this crop, the counties of Cuyahoga, Portage and Wayne each growing more than 6,000 acres annually during recent years. For ten years, 121,000 acres of potatoes have been grown in the state on the average, producing nearly 11,000,000 bushels. Of this area nearly half is found in the twelve counties comprising the Western Reserve, in the northeastern corner of the state, together with the four counties immediately joining them on the south, these sixteen counties containing less than one-fifth the total area of the state.

The average yield of potatoes in this district is less than 100 bushels per acre, but the results of the Experiment Station's tests show that it is easily possible to double this yield as an average, results which are fully confirmed by the experience of many farmers throughout the region. As an example, one Wayne county farmer harvested 10,000 bushels of potatoes in 1906 from thirty-one acres of land, or nearly 350 bushels per acre, and other similar yields were reported for smaller areas. Land which will produce such results has been purchasable at \$75 to \$80 per acre, when located several miles from town, and at \$80 to \$100 when nearer, but when one crop of potatoes will bring in from \$80 to \$140 per acre, at a cost for seed, fertilizers and labor of \$50 to \$60, it is evident that there will soon be a rise in land values.

ONIONS

Ohio ranks as the second state in the Union in the production of onions. This crop is chiefly grown on the former muck swamps which are found at frequent intervals along the line of the watershed. In their original condition these swamps are worthless for agriculture, but when drained and the wild growth subdued they become the most valuable farming lands in the state. The onion crop is expected to average on these lands 500 bushels per acre, while 1,000 bushels is an obtainable crop under favorable seasonal conditions. The average price is probably not less than 40 to 50 cents per bushel; it frequently reaches a much higher point.

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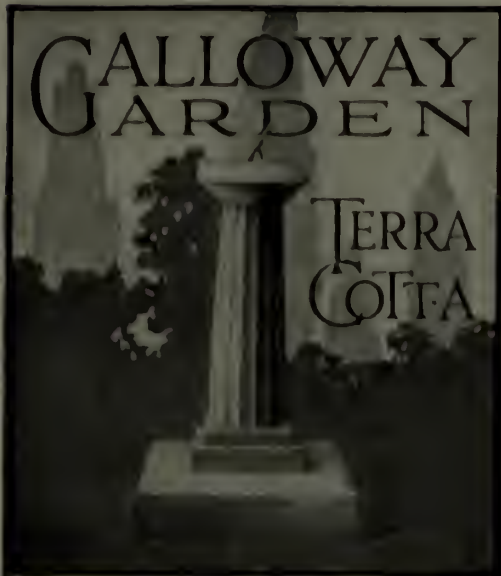
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while the cost of production is about the same as that of the sugar beet, or \$30 to \$40 per acre.

Like the culture of the sugar beet, that of the onion involves a lot of back-breaking work; but some of the onion growers have solved the labor question by the employment of boys drawn from neighboring towns. As an example, a trolley line which passes through a large onion district, takes up every morning during the weeding and harvesting season a car-load of boys from 9 to 15 years of age, who earn 75 cents to \$1 a day and have a jolly good time. They go in charge of a responsible man who takes care of them.

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A group of Texas cattle finishing their education on an Ohio farm

During the seventies the advent of the Colorado potato beetle had taught us the value of arsenic in fighting insects, and in 1886 the discovery was made over in France of the great fungicidal value of the salts of copper. Early in the nineties some of the experiment stations demonstrated the possibility of combating both fungus and insect with a combination of arsenic with salts of copper, and a few Ohio orchardists were led to begin the systematic use of these materials, with the result that apples are again being grown in various sections of the state with the same certainty and in even greater perfection than ever before.

In southeastern and southern Ohio are twenty counties which have been cut into hill and valley by the floods flowing from the foot of the glacier which once covered the northern two-thirds of the state. Down in Lawrence County, the extreme southern county of the state, is a hill farm, worth probably less than \$25 per acre a few years ago, from which Rome Beauty apples have been sold for ten years past to the average value of \$100 per acre or more annually. In these hill counties there are tens of thousands of farms which can be bought for \$20 to \$40 per acre, and which might be made to yield as large a return as this one, were the same wisdom exercised in their management.

### LIVE STOCK

From its earliest history animal husbandry has been a leading feature of the agriculture of Ohio. Before the advent of the railway the products of the farm were largely converted into beef, pork and wool, the beef being driven on foot over the Alleghenies to the eastern markets, the pork sent down the Miami Valley on foot to Cincinnati—in ante-bellum days the greatest pork market in the world—while in wool great value is compressed into comparatively small space, thus rendering it possible to market it under conditions which would be prohibitive of less valuable materials. But the opening of the great, free ranges of the West, and the consequent depression of prices, wrought havoc to Ohio's live stock industry, and the close of the century found the state with an animal population no greater than that of the middle, although the area devoted to crop production had increased three fold.

Better prices are again prevailing, however, and while the industry must be readjusted to meet new conditions, there is a great opportunity for successful live stock husbandry in Ohio, as is demonstrated by the men here and there who are prospering at it. Three phases of this industry seem especially adapted to

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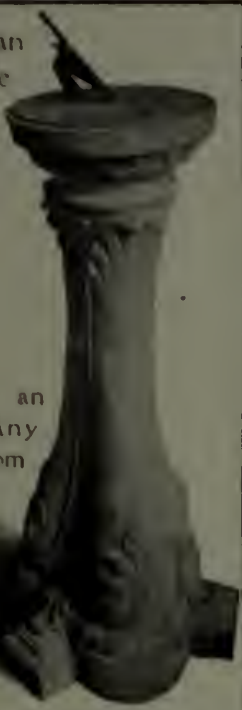
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TO encourage people to establish country homes is one of the objects of this magazine. The interest aroused and the impetus given toward home building out of town, the question **Where shall I find a place?** still remains to be answered. The real estate advertising in the front of each number of *Country Life in America* answers this question for many every month. Many places are offered for sale or for rent by the owners. Many more are offered by reliable real estate agents. Whether you hanker for a bit of land yourself or not you will be stirred by the land hunger if you read the real estate advertising in the front of this magazine.



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Ohio's conditions: the breeding of pure bred stock, dairying, and the fattening of animals that have been raised on the cheaper lands of the West.

Ohio has always occupied the first rank in the production of pure bred animals and to-day Greene County claims to contain pure bred flocks and herds of a greater number of different breeds than any other equal area in the world, while hundreds of such herds are to be found in other sections of the state.

The growth of Ohio's urban population gives to dairying, and especially the production of milk, a foremost place in its rural industries,



Buildings on a corn farm in northeastern Ohio—four years from the forest

and the location of the state midway between the West and the East, with its abundant transportation facilities, gives it a commanding position in the final finishing of meat-producing animals; hence many farmers, scattered over the state, are specializing in this line, some purchasing lambs from the Northwest, and others bringing in half-fat cattle from the Southwest, while still others are feeding a class of stock not destined to be eaten, namely draft horses, which are brought in from Illinois and Iowa and fed for a few months and then passed on to the eastern cities.

Not only do these larger animals receive attention, but there are great establishments for the production of poultry and pigeons, and there is at least one ferret farm in the state.

#### ROADS

Throughout the southwestern quarter of Ohio are found great deposits of limestone and granitic gravels, deposited by glacial action. These gravels have been used for road making, until now practically every important road in this section has been macadamized. This work is extending northward over the western half of the state, Paulding County alone having built or under contract more than 500 miles of macadamized road, but over the eastern half of the state there are but few improved roads, the sandstones of the Waverly being too soft to produce any permanent betterment. A recent law is assisting in the improvement of the roads in this section. Considering the superiority of its roads and the natural fertility of its soil, southwestern Ohio offers the cheapest lands in the state, although they may nominally cost more per acre than in some other sections.

#### LAND VALUES

Farms are for sale in every township of Ohio. Owners die and estates must be divided and settled; better opportunities for business, real or fancied, open elsewhere and the homestead is offered for sale; or unwise investment or mismanagement has covered it with mortgages, and it comes under the sheriff's hammer. Often these farms are sold far below their actual value, and very often the man who has ready cash to pay for and improve a farm can secure a bargain.

Near the better market towns good level farms, well improved, are held at \$100 per acre and upward; three or four miles away just as good farms may be bought at \$70 to \$80; in less convenient locations or with inferior improvements the price may fall to \$40 to \$60, while in the hill counties the price ranges all the way from perhaps \$5 for hillsides so steep as to be fit for nothing but the growth of forest trees, to \$50 and upward for well improved and comparatively level land.

The time will come when the summits of these beautiful hills of southern Ohio will be covered with orchards; the gentler slopes with blue grass pastures, on which countless thousands of sheep will feed, and the steeper hillsides with forests of chestnut, ash, and other valuable trees.

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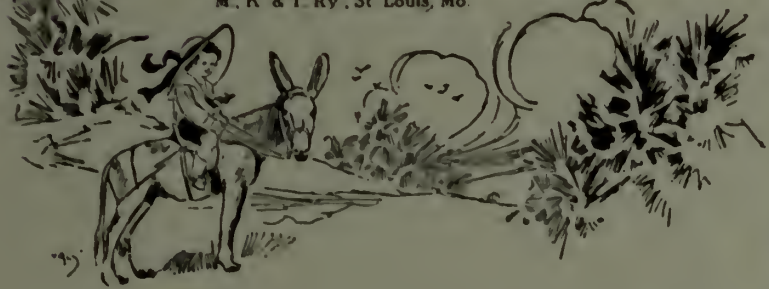
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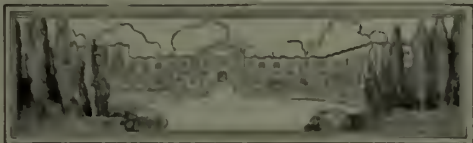
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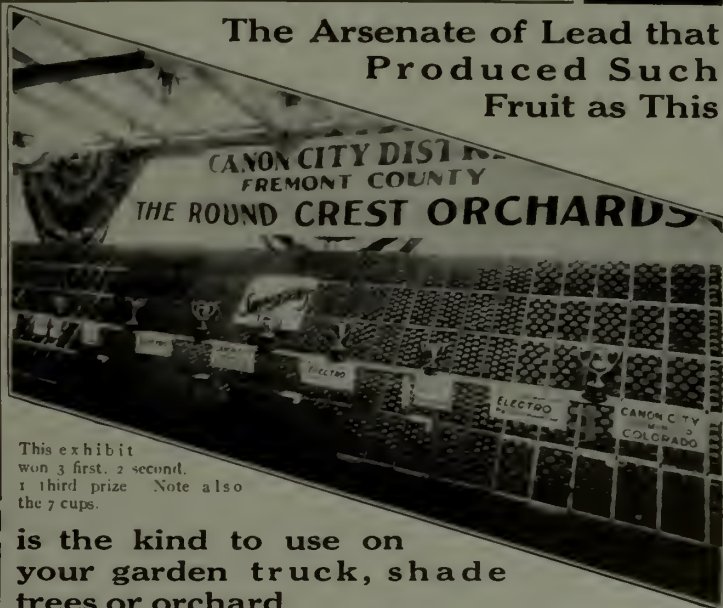
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### IDEAS AND EXPERIENCES OF OUR READERS

[NOTE.— This department of the magazine has been established to make room for some of the interesting things that fall under the observation of our readers, but that usually fail to get into type because they are not of sufficient importance to be expanded into a long article. We accordingly ask our readers to send us for publication some of their experiences, discoveries, successful inventions, or amusing incidents—not over 250 words—with an interesting photograph or two. We will pay for what we use.—THE EDITORS].

#### A STUMP SEAT

ONE of twin elms was blown down and as I could not well remove the stump without marring the remaining tree I made a seat out of the stump. It was hollow so I cleaned out all the rotten wood, white-washed the inside, sawed two-thirds of the shell off squarely, eighteen inches from the ground and



Instead of removing the stump and leaving a scar on the remaining tree I made a comfortable seat out of it

boarded it over, sinking the boards flush with the top of the stump. The remaining third of the stump happened to be such that I could easily construct from it a back for the seat, which was done. Thus I provided a comfortable seat and produced an effect much better than if I had undertaken to remove the stump.  
C. L. MELLER.

#### AN OLD-TIME FIRELESS COOKER

WHILE twentieth century folks congratulate themselves upon their modern ingenuity, let them remember that more than a hundred years ago the "fireless" was in evidence among the Mexicans of New Mexico and Arizona, as shown in the accompanying photograph. The oven is built of adobe (a brick made by the



As usual, we go to the ancients for verification of the utility of our own "modern" inventions. An old-time fireless cooker

natives of mud and formed by frames of the desired size), and being thick, holds the heat well. A fire is built in this oven, left to burn about an hour, and is then tested by holding within it a piece of whitewood. If the wood scorches, it is too hot, but if it turns to a delicate

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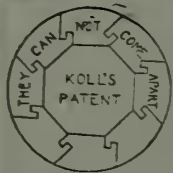


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brown it is just right. The fire is then removed and the oven swept clean, the loaves of bread slid in, and the opening closed by boards stood on end and held in place by a stone. The bread bakes an hour or an hour and a half according to the size of the loaf, and has a most delicious sweet, nutty flavor. Enough bread is usually baked at one time to last two or three weeks.

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FROM time immemorial we have read of dogs as pets and faithful comrades but I know of none more worthy of that title than the one whose picture you see before you. He belongs to a little boy whose home is near a junction where trains are passing every few hours. One day the little boy was playing on the track entirely oblivious of the approaching train.



A canine life-saver which, by his quick wits and ready muscles, rescued his little master

With one bound the dog lifted him out of danger just as the train whizzed by. Since then he has guarded the little fellow constantly and whenever he hears the rumble of the train he will pick him up, carry him a block or so from the track and hold him there till the train is gone and the danger over. M. B. GRIFFIN.

**DOG SALMON**

FROM November to February dog salmon or canines run up the freshwater streams of northern California to spawn. Though not so shy as our other fishes they are nearly impossible subjects to photograph while spawning, because their movements are so rapid and the camera has to be set so close. I have crawled



The dog salmon which, owing to its quickness of movement, is very hard to photograph

upon them in their "beds" at different times and learned that it takes them some time to become aware of danger if they are approached directly and slowly; but any sudden motion will send them to their hiding places. The dog salmon's average weight is ten pounds. He has a hooked nose and prominent teeth. The flesh is coarse and rank, though many people eat it. BENJ. PHILLIPS.



RESIDENCE OF I. TOWNSEND BURDEN ESQ., NEWPORT, R. I.  
Over which a Loomis-Manning Filter stands guard against impure water

# The Loomis-Manning Filter

*Dependable  
Automatic  
Safe  
Economical*

THIS filter is as near perfect as a filter can be made. It is simple but wholly efficacious in its working. Many representative country estates, the White House, and a very large and ever-increasing number of city and suburban houses are protected by the Loomis-Manning Filter.

**The Cost of Loomis-Manning Filters is Less than Doctor's Bills**

Most of us are unacquainted with the mischief caused by unfiltered water. Many of the sicknesses that result in dread diseases actually originate in the water alone. The senses of taste and sight can be trusted in most matters, but not in regard to water. The sparkling and "muck-thriller" kind may contain the deadliest germs. Water not contaminated at its source may be polluted before it reaches the faucet. Every man owes his home a Loomis-Manning Filter. It makes all water pure.

**The Loomis-Manning Filter is a Boon to the Country Home Owner**

Residents of the country who own their own water systems may doubly safeguard their homes from impure or polluted water. In the first place, whether the water is pumped from an Artesian Well or comes from a high mountain spring — there is a sense of security and satisfaction in knowing all about its source and the piping system. Such water is as near pure as any unfiltered water may be. However, no unfiltered water is absolutely pure and the assurance of safety should be doubled by relaying all drinking water through a Loomis-Manning Filter.

Aside from providing pure and vitalizing water for drinking purposes, Loomis-Manning Filters are a big asset to the laundry, assuring the whitest linen at a minimum of labor.

Water filtration is a matter of first consequence to every home. If you are without this filter, don't be longer without full information. It is gratis and gratuitous. Upon request our nearest office will supply literature and list of users. Write.

**LOOMIS-MANNING FILTER DISTRIBUTING COMPANY**

Main Office: 827 Land Title Building (ESTABLISHED 1880) Works: 24th and York Sts., Philadelphia, Pa.  
 NEW YORK Metropolitan Bldg. BOSTON Exchange Bldg. CHICAGO Marquette Bldg. BUFFALO Elliott Square Bldg. BALTIMORE Calvert Bldg. WASHINGTON Colorado Bldg.



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PRESENTS

English and Motor Sport Hats in Exclusive Bond Street Styles for Early Spring Use. Tweed in heather combinations and Suede in plain colors. \$10 to \$20.

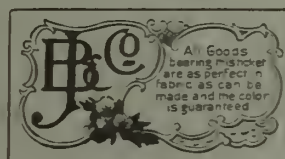
Recent importations of smart English coats in walking and motoring lengths show the tendency to the more fitted back.

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If you are buying new awnings or replacing old ones, you should have them made of the best material obtainable.

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No matter how careful a driver you may be, you **cannot prevent** skidding and slipping on wet, muddy, snow-covered roads or on icy, slippery, greasy pavements **unless** you equip your car with

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Recommended and sold by all reputable dealers.

Weed Chain Tire Grip Co.  
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# and Anti Skid



agent or owner. Massachusetts and other states publish similar pamphlets.

"Some of these farms," says the New York bulletin, "are in a good state of cultivation, producing good paying crops; others are in a more or less run down and neglected condition. Very few of these farms are actually unoccupied. The Department has been unable to find farms in New York state abandoned, in the sense that any person could claim ownership."

"As a rule, these farms are offered for sale because those living upon them have grown old and, not being able to obtain sufficient help, cannot give their farms sufficient attention. Or they are owned by the sons of these men who left the farm for business enterprises and whose interests are only slightly connected with the farm. In no instance do these reasons indicate that it is impossible, difficult, or excessively costly to bring them back to a high state of fertility, however run down or neglected they may have become. . . . The assertion that New York state is full of abandoned farms and exhausted lands is entirely and emphatically untrue. The difference in the price of the cheaper class of farms herein listed is due as much to location as to relative fertility. Thus a farm that can be bought for \$25 per acre is quite likely to contain soil as productive as one of \$35 or \$40 per acre more advantageously located."

The State's list is peculiarly valuable, inasmuch as it furnishes a description of each farm, which is generally approved by the supervisor of the town in which the property is located. These descriptions are remarkably complete, as the following, which omits names, indicates:

Farm of 200 acres, located two and a half miles from — P.O., two and a half miles from railway station at —, on line of — railroad, half mile from school, two and a half miles from church and milk station. Nature of highways, good. Nearest large village, —, population 500, two and a half miles distant, reached by highway. Surface rolling. Soil, slate and loam. Acres in meadow, 100, in natural pasture, 70, in timber, 30. Acres tillable, 170. About 100 fruit trees. Adapted to all kinds of crops. Fences, rail and wire, good condition. House 26 x 44, in good condition. Main barn, 30 x 50, hayhouse, 38 x 70, horse stable and wagon house, 30 x 50, granary, etc. Watered by springs and stream. Within 3 miles of — Lake. Occupied by tenant. Reason for selling, owner is engaged in other business. Price \$5,000, terms cash.

Some of the larger railroads which tap agricultural districts and are fostering the back-to-the-land movement do their share toward aiding the buyer. They maintain agricultural bureaus, publish lists of farms for sale or to rent, and place the knowledge and experience of their experts at the disposal of those who come to them for assistance. Some of them even conduct model farms in order to demonstrate the results which may be obtained from neglected land through proper methods of cultivation. Prospective purchasers also have the privilege of calling upon state experiment stations for advice, and there are firms of agricultural experts which offer their services (for a fee, of course) to the puzzled city-bred layman.

The search for a farm, therefore, becomes more or less simple when one familiarizes himself with the various agencies at hand, but at the risk of undue repetition let it be said again that it is essential for the searcher to have a fixed purpose. He should not say to himself: "I am going to be a farmer" and then march forward blindly. If he is going to make a success of tilling the land he must have a farm with soil best adapted to the crops he intends to raise. This is not so difficult as it seems at first blush. What are agricultural departments, experiment stations and railroad bureaus for if not to give advice on this very subject? They all want to encourage profitable methods; for this reason they may be depended upon to tell the layman what the farm he has in mind is capable of producing best of all. Moreover, they recognize the fact that the quality of soil varies, and it is their business to know how it may be worked to best advantage. Analysis of the soil is a safeguard, particularly if a farm has been long neglected, but it is not considered a necessary precaution on the buyer's part. If he is in doubt on this point, and hesitates to be guided by the experience of the previous owner, let him consult the nearest experiment station.

One fact that all would-be farmers should bear in mind relates to transportation. A farmer must have a market for his produce, and an easy, quick, and cheap way of sending it to the

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are vigorous—hardy—dependable growers. Backed by fifty-eight years of horticultural experience. Be sure to get this valuable book—a request brings it.

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70 tons, 800 lbs.	ROSS BROS. CO., Worcester, Mass.
47 tons, 76 lbs.	The Eureka Ensilage Corn seed bought of you was the finest corn for Ensilage ever grown in Michigan.
42 tons, 860 lbs.	Corn is fine. too. One acre grew over 50 tons of fodder and corn and over 100 bushels of good ear corn.
40 tons, 360 lbs.	We also grew two acres of this corn, one of these grew 70 tons and 800 lbs, which won your prize.

From these two acres we have kept 5 cows, 4 horses, a number of hogs, geese, etc., and still feeding. Corn grew from 15 to 20 feet high and had from 3 to 5 ears of good corn. Everything eats it as if it were sweet corn—cattle, horses, hogs, geese, etc.

Plant right seed and do the same. \*100 Gold Prize for Heaviest Yield. Equally divided in case of tie. Winners announced at Corn Show, Boston, Nov. 20-23, 1912. Prices low—write to-day.

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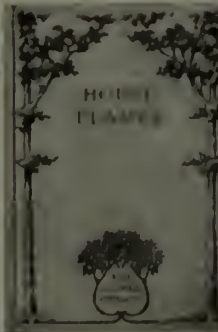
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A practical volume dealing with all kinds of climbing and trailing plants for garden effects. It covers not only the hardy annual vines and permanent woody vines for pergolas, etc., but many of the beautiful exotics which are grown for cut flowers in greenhouses.

### Garden Planning

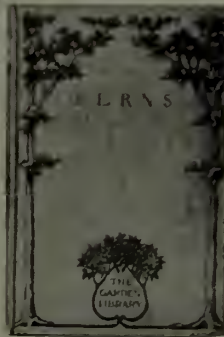
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Especially designed to help the maker of small gardens, who wants to start properly in fitting his desire to the conditions and situations.

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The planting season is approaching—these books should be your constant companions.



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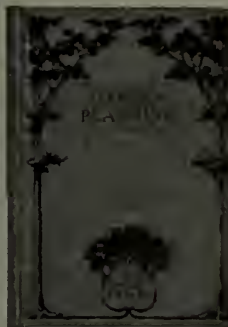
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## Some Sound Tree Advice



It takes twenty to twenty-five years for a sapling to grow into a line shapely tree like the one above. The owner of the house below believes in saplings and put his money into numerous small trees. The one above doesn't. He bought one fine sturdy, well developed, tree from Hicks' nursery and at once that "just built" look was gone from the place and the residence was "tied to the grounds" as the landscape architects say. It's for you to decide which method of planting you will adopt; but

in either case we have superior trees for you. Trees from 6 inches to 25 feet. And choice shrubs up to 6 feet high. Our advice would be to buy both large and small trees and shrubs. Then you will get certain *immediate results* and also have the pleasure of seeing the smaller things develop from year to year.

Whatever you do decide to do — send for our catalogs now and order your trees early—so we can ship them early, so they can be planted early, and so avoid the inevitable spring rush.

**Isaac Hicks and Son**  
Westbury, Long Island

consumer. In order to get the best results his farm should be in close proximity to good highways and the railroad. It should not be too far from a town, or, in other words, a base of supplies. Again, in prospecting, the buyer must consider the general features of the farm. He should examine the fences, the water supply, the condition of the dwelling and outbuildings. A careful survey of the property will reveal its defects and indicate whether the buyer must add to the purchase price an outlay of money for repairs, and possibly for water or drainage. A prospector might very well carry a check list to guide him in his tour of inspection. This list could include the following items:

- Distance of farm from nearest railroad station.....
- Distance from nearest town.....
- Distance from school.....
- Distance from churches.....
- Condition of highways.....
- Acres in meadow.....
- Acres in natural pasture.....
- Acres in timber.....
- Nature of timber.....
- Tillable acres.....
- Number and variety of fruit trees.....
- Nature of soil.....
- Crops best adapted to soil.....
- Number of buildings, and dimensions.....
- Condition of dwellings.....
- Condition of outbuildings.....
- Condition of fences, wire and wooden.....
- Nature and source of water supply.....
- Price and terms.....
- General remarks.....

As with all other real estate, it is dangerous to buy farm property unless the title is clear. The usual searching of records must be carried out either through a lawyer or a title insurance company. Insuring of titles is now undertaken by some guarantee companies on the same basis laid down for city and suburban property, and it is desirable to have their assurance, though not absolutely necessary.

There is also the question of boundaries. A buyer cannot afford to assume that they are accurate, for occasionally acreage is reduced through the surreptitious encroachment of a neighbor's fence, or through neglect on the owner's part. Hence it is always necessary to determine whether the boundaries conform to the description of the property on file in the recording office. Not infrequently a purchaser is obliged to go to the expense of having a survey made in order to be certain that he is getting all the land he pays for. Title companies do not insist upon a survey, but if it is not made an exception is noted in the insurance policy.

Terms of sale vary in accordance with individual agreements, although as a general rule the seller demands 10 per cent. of the purchase price upon the signing of the contract. This sum includes the binder, or amount deposited by the buyer to show his good faith. From thirty to ninety days are allowed for title searching, and upon delivery the buyer may be required to add to his original cash deposit a sum equaling one half of the purchase price, a mortgage being given for the balance. No fixed rule, however, can be laid down for the buyer. He must make his own terms. Several factors, such as the advantages of location, condition of buildings and fences, and general equipment govern the price set upon a farm, and here enters the broker, with his knowledge of land values and other matters that necessarily enter into the calculation. There are farm brokers in the cities as well as the country districts, and it is not a difficult task to find one who is trustworthy and competent to carry out a transaction quickly and efficiently.

### HOW TO SET DRIVEN FENCE POSTS

TO SET driven posts in dry ground, take the pointed end of a crowbar and open up a hole as deep as desired, or as can easily be made; do this with about thirty postholes, and let a boy follow and fill the opening with water. Then return to the first hole and go over them all again with the crowbar—and a third time, if necessary—flushing the holes after each operation. By the time you have prepared fifteen or twenty holes the first will be soaked sufficiently to take the post.  
W. H. ROADS.



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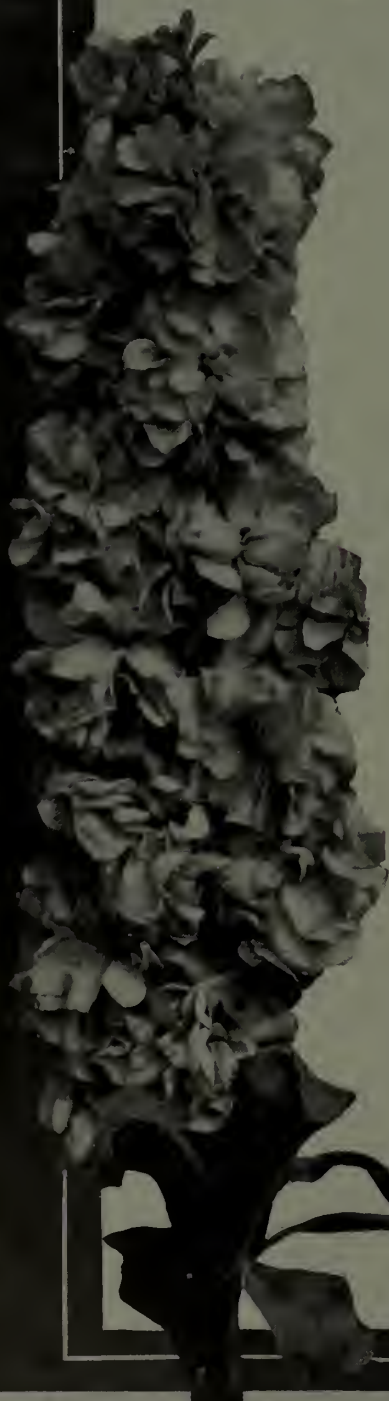
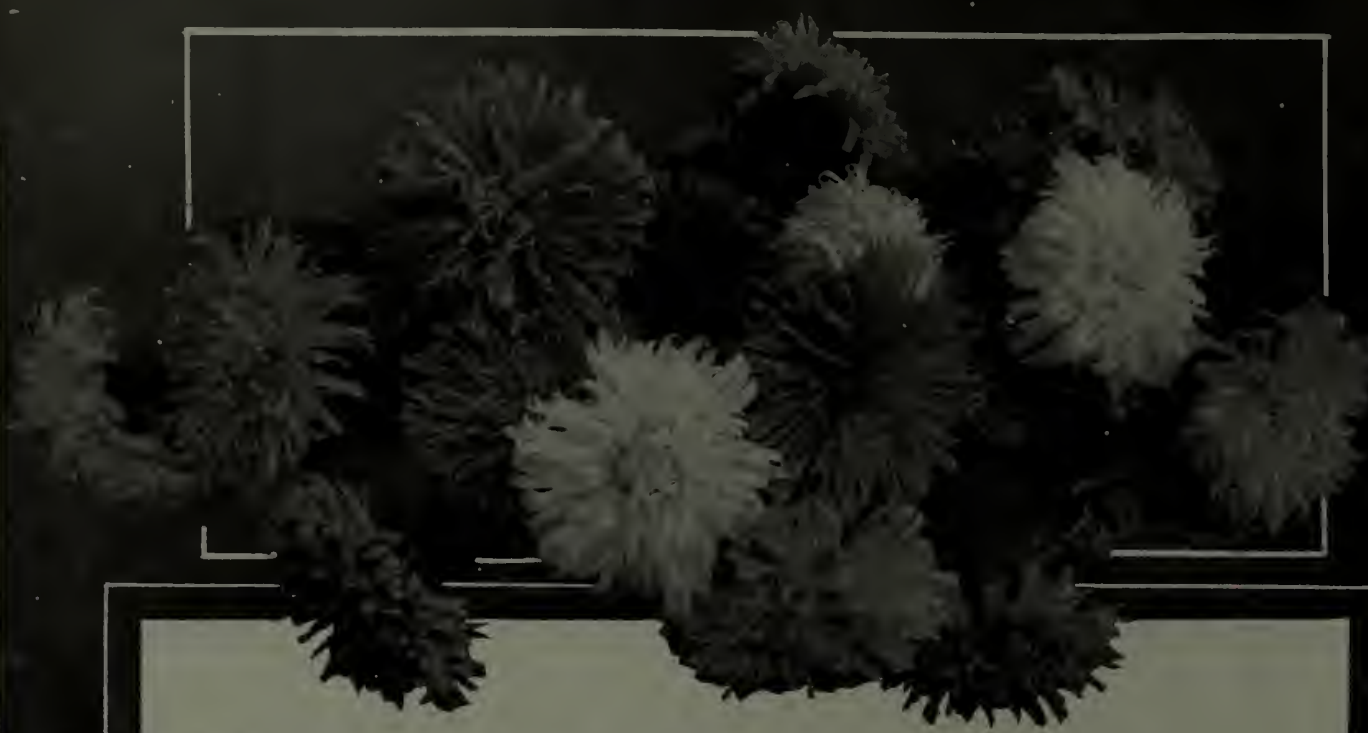
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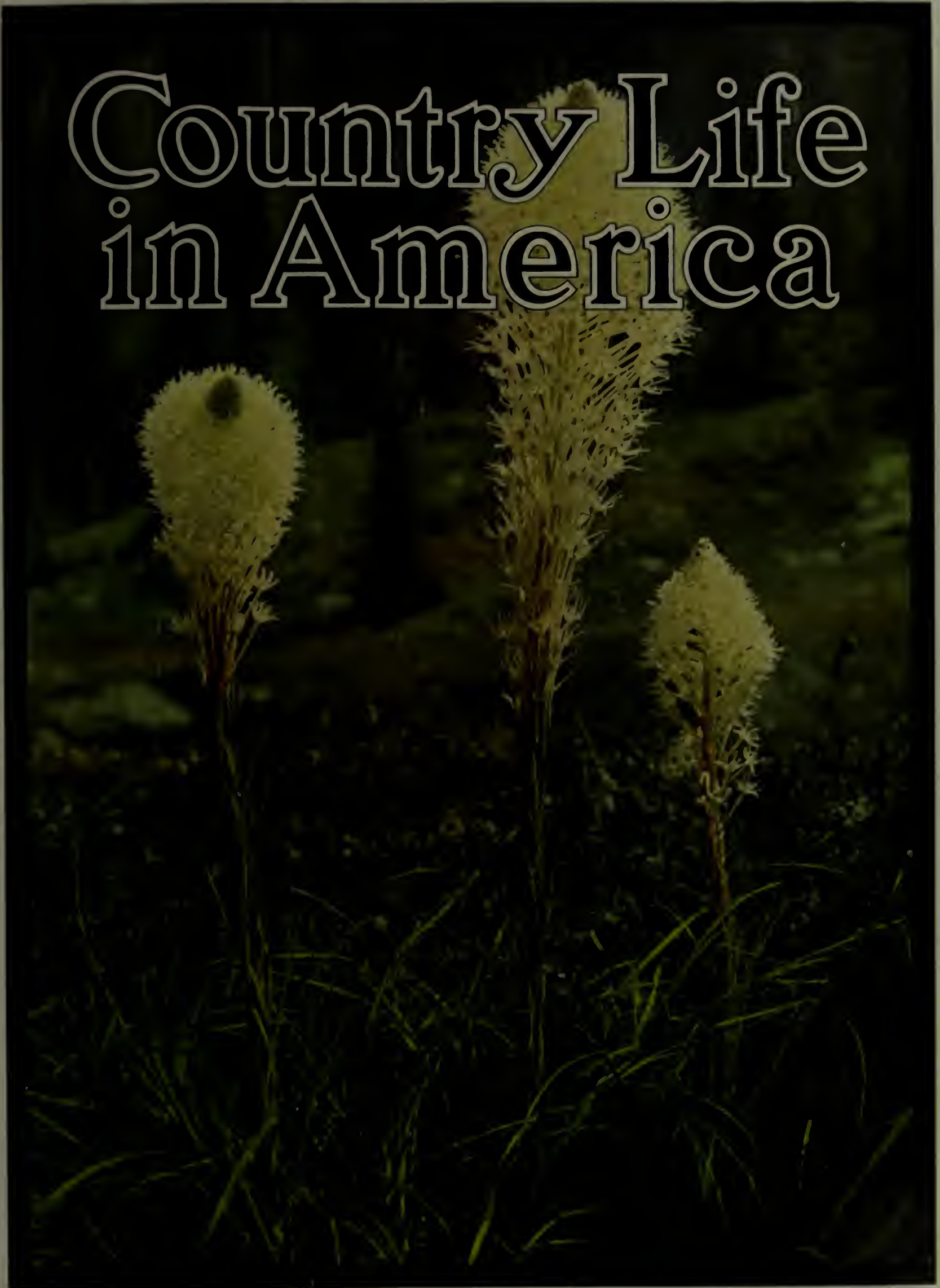
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April 1  
1912  
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By Thomas Nelson Page

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You are now probably making active plans for next summer's flower garden. Of course your ambition is for a better one than you've had before; and I can help you realize that wish if you'll let me.

First, you think of your Rose Garden. My Fairfax plants will enable you to establish a garden that will be a lasting joy, or to increase one that you already have.

### Fairfax Roses Excel

because my Nurseries are located where Roses grow unusually well; because I understand rose-growing thoroughly, and have added to this knowledge, modern methods of propagating plants and filling orders.

I have first-class facilities for producing plants for bedding, etc.— particularly Dahlias and Chrysanthemums. My new types of Giant and Cactus Dahlias, and my Exhibition Chrysanthemums, bear flowers which you will be proud to own. The illustration is of my new Cactus Dahlia "Master Carl," whose flowers frequently measure 6 or more inches across.

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Write me before you order Roses, Dahlias, Chrysanthemums, Cannas or Bedding Plants of any kind. I grow extra-fine plants, and can ship them *anywhere* with perfect safety. My Catalog describes them, and I shall be glad to send you a copy.

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Three and a half acres on lake front; forty minutes by steamer or launch to Saranac Inn.

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Everything is in perfect condition.

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Views and Surroundings Perfect

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**BEAUTIFUL GLENDALE**

This is one of the finest country seats along the North Shore of Long Island. It comprises twenty-five acres, about forty miles or one hour from New York City. It overlooks Northport Harbor and Long Island Sound. The residence is a large, well-constructed building of fifteen rooms, two baths, hot and cold water in all the sleeping apartments, electric lighted and steam heated. All modern improvements. Excellent water supply. Other buildings on the property are two barns, large carriage house, a poultry house, etc. A large orchard supplies abundant fruit of all kinds. An excellent meadow affords fine pasturage and a large garden affords table luxuries. This property is for sale at an attractive figure or will rent for summer. Price and particulars from

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**ESSEX, N. Y.**

"Hyde Gate" is just at the outskirts of Essex Village on Lake Champlain, N. Y. It is the country residence of Caleb James Coatsworth. The house faces the lake and the ground runs down to the lake. There are bath houses, and a large private dock. The house is between 85 and 100 years old. It is a beautiful example of the Colonial period; made of brick. It is very beautifully furnished with antique colonial furniture. It contains ten bed rooms and two bath rooms on the second floor and three bed rooms on the third floor. Also two laboratories on the first floor.

The grounds contain between 5 and 6 acres, beautifully laid out. There is a great abundance of flowers. A large kitchen garden and a number of fruit trees and currant bushes, etc. A stable with room for five horses, accommodations for 5 or 6 carriages; large harness room and good comfortable quarters for coachman. Another carriage shed affords accommodations for extra carriages and two automobiles. There are other outhouses. Further particulars from

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Briefly, the estate comprises 100 acres — 33 acres in tillable land, at present planted to hay — 10 acres in pasture and between 20 and 60 acres of woodland — a fine young growth of pine will mature within the next 25 years.

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NEW YORK



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Delightful grounds of adequate area, old fashioned garden, green-house and garage. The owner wishing to sell before spring, has placed attractive price and convenient terms upon it, to effect a quick sale.

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A property rich in possibilities for pleasant and profitable development by subdivision.

This property contains about 218 acres bordering on the west shore of Lake George with over a mile of the finest water front on the Lake. State highway through property. Mountain stream for water supply. Sand bathing beaches. 16-room, furnished, modern house and outbuildings.

Beautiful and extended view up and down Lake George and of the surrounding mountains from nearly every point of the property. For particulars address

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Fully furnished, for sale or to rent for the season; beautifully located on Lower St. Regis Lake, extensive water front, ample grounds. Two boat houses; one very large. Gasoline launch, one large family boat, two boats and two canoes. The buildings are new, all in first class condition, and will accommodate a large family. For terms and particulars apply to E. H. WHITE, care of Johnson & Faulkner, 35 East 17th St., New York City.

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30 ACRES with private access to the southern border of the lake. Many fine shade trees; three orchards (apple and pear), cherry trees, kitchen-garden, etc., complete.

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On Broadway, an ideal Country Seat, "NEARWOOD," at sacrifice; beautifully located, restricted section, near Ardsley Club; 27 rooms, five baths; hardwood floors; steam heat, electric light, cabinet trim, new sanitary plumbing, modern fixtures throughout; fine old trees, lawns, stables and greenhouses; about 15 acres. Free and clear, terms easy.

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Two hours from New York, via the Harlem Division of the N. Y. Central Railroad, three miles from the station, Dover Plains, on an elevated plateau, 1100 feet above sea-level. Fifty acres of woodland included. Well-watered; pasturage unsurpassed; beautiful views; most beautiful location. Farm adapted for dairy, or for producing fruit of the highest quality. No buildings. Low price per acre. Address for particulars:

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A 260 acre all purpose farm located near City of Geneva, N. Y., highest state of Cultivation, extra good Buildings. Write for particulars.

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BLUE MOUNTAIN LAKE, N. Y. Camp proper 11 rooms and 4 room kitchen annex; modern plumbing, boat house, dock, launch house, ice house, laundry, barn, stable, lodge, open camp, vegetable garden, unequalled location, magnificent views, mountain brook at side of camp.

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This attractive country home with 100 acres of grounds, including large shade trees, orchards, meadows, etc., also large flower and vegetable gardens. The house contains fifteen rooms; six master's and three servants' bed rooms, three baths, large living room (30 x 20), open fireplaces, hot air furnace and all other modern conveniences. The house is furnished throughout with old colonial mahogany furniture. Large stable, two box stalls and three single stalls, garage with accommodations for two cars, also chauffeur's living room and studio.

This property can be appreciated only when seen. The owner will be glad to make an appointment at any time. For further particulars, rental price, etc., address P. O. Box 111, Mineola, L. I.

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Colonial House 16 rooms, 4 baths, 6 toilets, all conveniences, gardener's house 6 rooms and bath, barn, chicken run, ice house, garage and green house.  
Grounds - 4 acres, large garden, comprehensive planting; grove of shade trees.  
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This beautiful property consists of frame house of eighteen rooms, three bath rooms, with steam heat and electric light. The house is beautiful in treatment with hardwood floors, wainscoting and beamed ceilings.

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This property can be purchased for one half its cost as the trustees are desirous of settling the estate.

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The above house we believe has the finest view in the State. It is situated in one of the most attractive Connecticut towns, near the Golf course and not far from Country Club on Green, was recently built in the very best manner; has all improvements and is Art in every particular. There are nine bedrooms and 2 baths, spacious living rooms, attractive gardens and good stable or garage with man's room. For sale with 8 acres of ground at a moderate figure or would be rented furnished for the summer.

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One of the finest building sites on the North Coast of Long Island Sound. 135 acres of land. Cottages, stable, barn and out-buildings. House recently burned. Very fine and extensive view of Sound and countryside. Never failing and ample water supply, woods and brooks. An especially desirable place for a family with young children. Address

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Colebrook Farm, 550 acres, large house and barns, two trout brooks and pond on property. Fine woodland pasturage, large hay yield. Two miles from village. Every modern improvement. House contains living room, entrance hall, library, dining room, kitchen, laundry, servants' dining room, two pantries, seven master's rooms, three bath rooms, four large servants' rooms and bath. Garage with two bed rooms. Farm barns and equipment. Price, \$50,000. Will divide, selling house, barn, garage, gardens, orchard and 300 acres for \$35,000. Rent \$2,500 per year. Terms to suit. Apply

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Two houses - large barns and 145 acres land. Owner's house, 12 rooms. Living room 30' x 36'; fireplaces, hot water heating, hardwood floors, 3 baths. Ten room farm house. Barns have concrete floors, running water, and will accommodate 70 head stock. Farm has fine meadow and timber land; apple and peach orchards ice house, pond, dairy house, etc. Endless supply of spring water to buildings by gravity. Situated on four corners - Bridgeport 7 miles, Stratford 6, Derby 4 and Huntington 2. Address

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No. 209 A. This Exceptionally Choice Estate has an unobstructed view of the Sound and cross-country. 13 Acres in Lawns and Farm Land. New Stone and Stucco Dwelling, 20 Rooms, 6 Baths, all Modern Improvements. Garage with apartment for coachman or chauffeur, Gardener's Cottage, Ice-house and Farm Buildings. Can be purchased on convenient terms. Property must be seen to be appreciated.

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Near COUNTRY CLUB. Perfectly appointed dwelling, large bedrooms, plenty of baths; ample servant quarters. Spacious Grounds and Gardens all beautifully planted CARED FOR BY OWNER. Garage, Stable, High elevation. Superb views.

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Modern stone and shingle dwelling—16 rooms—(10 sleeping rooms), 4 baths. Hardwood floors—attractive surroundings, shade trees, shrubbery—garage—stable—tennis court—offered for sale to close estate.

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Rock Ridge, North, one and a half miles from R. R. Station. House with every modern improvement. Ten bed rooms, three baths, hot water heat, electric lighting, acetylene gas for cooking, also coal range. Stable with two bed rooms, kitchen, living room, bath room, carriage room, two stalls, hot water, acetylene gas plant, concrete floor. Also a large garage, capacity three cars, hot water heated and electric lights. Bowers' gasoline tank; concrete floor. About one and a half acres.

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**GENTLEMAN'S COUNTRY PLACE**

Far Hills, adjoining Bernardsville, N. J.

140 acres, fine river front, plenty of shade; farmer's cottage, large barns, silo, and other outbuildings. Land in splendid condition—2½ miles from station. Also other properties in this vicinity, improved and not improved.

A. S. LAMPHER  
25 Fine Street, New York CityW. N. TUTTLE  
Far Hills, New Jersey**COS COB, TOWN OF GREENWICH, CONN.**

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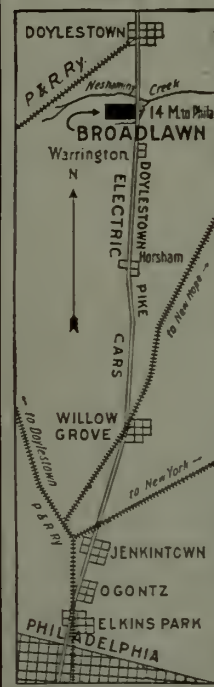
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(signed) John F. Scott,  
For Pease & Elliman.

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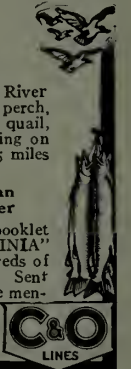
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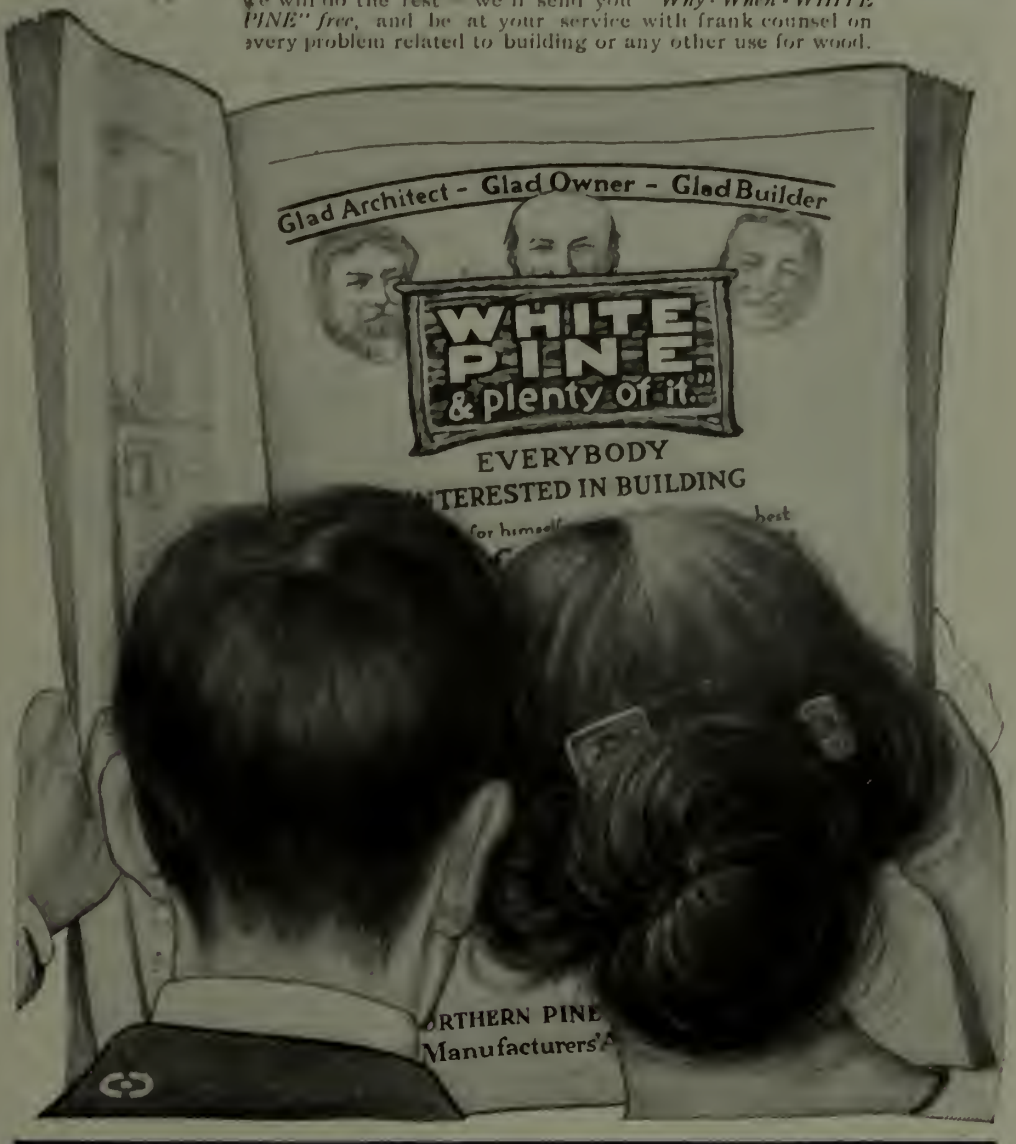
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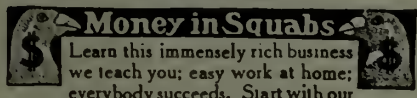
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### OUR SQUAB BREEDERS

are bigger and better than ever. The demand for such squabs as they raise is unlimited. Get our mated and banded breeders, let them prove you can make money from the start. Special price to May 1st, \$10.00 for 8 pairs—regular price \$1.50 a pair. Send for booklet. Our carneau are unsurpassed. BAY STATE SQUAB COMPANY, (Box L) Wakefield, Mass.

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A New Medium Weight Table Fowl that produces 205 Eggs per year



This new breed is the scientific creation of six years' patient breeding in strict accordance with Mendel's Law. A wonderful composite of the superior qualities found in the most excellent special purpose fowls. Breed characteristics are individual—distinctive.

This is the first opportunity to secure stock.

Not until after the results of long labor were permanently attained have we offered this new breed to the public. Only fifty orders for eggs will be accepted this season.

They will be filled in order received. 85% fertility guaranteed. No stock for sale. Breed protected by letters patent No. 82041.  
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First and special L. R. Drake Madison Square Garden

No Country Home Complete Without a yard of our Handsome Poultry

Indian Runner Ducks, White Holland Turkeys, Single Comb Buff Leghorns Blue ribbon winners Madison Square Garden. Free circular. Write us your wants.

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Stock of white crested black Polish, silver bearded Polish, Owens Farms S. C. white orpingtons and fancy pigeons; a few cockerels in above varieties for sale at reasonable prices.

EGGS \$3.00 AND \$5.00 PER SETTING  
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### GIANT BRONZE TURKEYS

World's Leading Prize Winners and Best Breeders

### PARTRIDGE PLYMOUTH ROCKS

The fowls ready to prove beauty and quality with any breed AMERICA'S BEST STRAINS

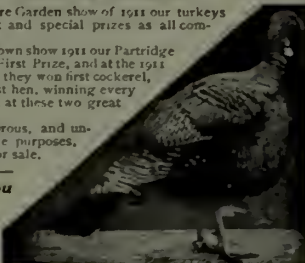
At the great Madison Square Garden show of 1911 our turkeys won three times as many first and special prizes as all competitors.

At the recent great Hagerstown show 1911 our Partridge Plymouth Rocks won Every First Prize, and at the 1911 Madison Square Garden show they won first cockerel, first pullet, first cock and first hen, winning every first for which they competed at these two great shows except one.

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BIRD BROS.

Box B Meyersdale, Pa.



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Executive Building  
Poultry Department

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They lay the largest hen's eggs known and many of them. Big bodied birds with long plump breasts that insure an extra quantity of white meat for the table.

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From our thousand females we also selected five pens—not quite equal to our *first prize winners at New York*—but so closely related that we have a right to expect fine specimens of them—these are \$5 a setting.

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In 1910—First Pen.

In 1911—First Pen. First Cock. Second Hen. First Pullet. Fifth and Sixth Cockerels—and the competition there is the keenest, as you know.

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*Satisfaction guaranteed or money refunded*

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The stables at Yama-no-uchi



One of the entrance gates at Yama-no-uchi



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Beautify your grounds and help your bird neighbors by securing one of our elaborate Martin Houses. Nesting boxes for wrens, swallows, bluebirds, chickadees, etc.

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And take care of 26 families of these beautiful little birds.

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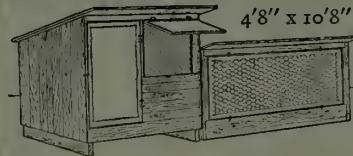
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Do not fail to order one of my Hanging Wren Houses.



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Convenient  
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## for Poultry Yard and Garden



Increase your egg production by providing substantial protection for your chickens. Proper food, good houses and cleanliness alone are not sufficient to make your hens lay abundantly; the fowl must not be chased or frightened by dogs, cattle or other animals, but should be kept free from any excitement.

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Wires are spaced so close at the bottom that little chickens cannot squeeze through, wander away and be lost, while the great strength of the fence provides ample protection against animals, wild or domestic.

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YOUR DEALER WILL SHOW YOU why "Pittsburgh Perfect" Fence excels — or write direct for full information and catalogue showing styles and sizes perfectly adapted to every FIELD, FARM, RANCH, LAWN, POULTRY and RABBIT YARD and GARDEN

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**The Readers' Service**  
Garden City New York



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An extra heavy close mesh fence requiring no top or bottom boards and fewer posts. Costs less than netting.

**ORNAMENTAL LAWN FENCE**  
For Lawns, Churches, Parks etc. We pay the freight. Send for Catalog  
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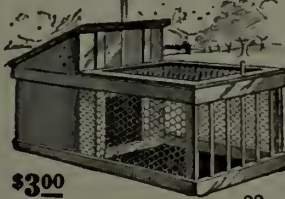
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till you have read the Six Free Chapters written by Robert Essex after a Quarter Century's Experience in the business. They tell *How to Make Money With Poultry*; *How to Build Low-Cost Poultry Houses*. They tell Fanciers and Women, and Farmers how to *START RIGHT*, and also tell all about America's Largest Line of Incubators and Brooders. The book is FREE. Write today. Address,  
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### "Wigwarm" Setting and Brood Coop

For a hen and her chicks and while she is sitting. Gives protection from rats, skunks, hawks, and other enemies. Insures larger hatches—fewer broken eggs. The runway is 20 x 24 inches. This coop is just the thing for colony raising and has proved its success for 22 years. Shipped knocked down. Size, 2 x 4 ft., 2 ft. high.



\$3.00

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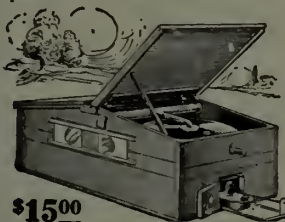
Fitted complete with nests, fountain and feed trough. Sanitary. Easily cleaned and aired. One man can easily raise several hundred birds. Nicely painted. Can be put together in fifteen minutes. Winter or summer the stock is always comfortable. In stormy weather the run may be covered at top and sides, giving protection and scratch room. Size, 10 x 4 ft., 5 ft. high.



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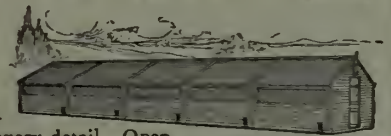


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Pioneer Hot Water System That Concentrates the Work Under One Roof.



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Double Brooder House Installation, With Central Alley.

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**STURDIER CHICKS**—Their growth is steady and rapid, and the system is especially valuable in raising broilers.

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No trouble to prepare, feed either dry or moistened with hot water, soup or gravy.

It is absolutely free from chemicals and appetizing spices and is used exclusively by the leading Kennels of both England and America.

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LOOK INTO THESE PROFIT-EARNING POSSIBILITIES. THEY ARE FOR YOU

Men and women just like you are making money from custom hatching with HALL MAMMOTH INCUBATORS. It is a growing business.

The sale of day-old chicks adds still further opportunities for exceptional profit. The HALL MAMMOTH INCUBATOR PRINCIPLE has reduced the cost of hatching so much below that of ordinary incubators that poultry keepers are largely following one of three courses: They either install a HALL MAMMOTH and supplement their own hatching by hatching for others, or they have a present owner of a HALL incubate their eggs for them, or they purchase day-old chicks outright.

The efficiency of the HALL in hatching a large per cent of strong, healthy, vigorous chicks, together with its economy of operation, has made it the primary factor in modern chick raising.

The soundness of HALL PRINCIPLES has been tested and found correct for 36 years, which explains the unexcelled perfection in HALL INCUBATORS, BROODERS and COLONY BROODERS.

Let us tell you how custom hatching will make you money and why the HALL SYSTEM excels any other. All information is free. Ask for Catalog L. Write today—now.

HALL MAMMOTH INCUBATOR CO.,

LITTLE FALLS, N. Y.



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Don't feed him odd scraps and raw meats that make him fat, lazy and generally unhealthy.

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Send for a Free Sample

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# Kennel Directory

In this department are printed the advertisements of reliable kennels. The Kennel Department of COUNTRY LIFE IN AMERICA invites correspondence and will be glad to send to its readers any information about dogs which they may desire. Address KENNEL DEPARTMENT, COUNTRY LIFE IN AMERICA, 11-13 W. 32d Street, New York.

**Great Danes of Royal Breeding** puppies and grown dogs. We can now offer you some exceptionally choice stock. Vohl's Commander, golden brindle, at stud. Blue ribbon winner. Danes boarded.  
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Ch. Nowata Min-Chi

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Some beautiful puppies sired by these noted champions for sale. They are all healthy and sweet tempered and some of them are housebroken and very small.

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SPRING VALLEY, NEW YORK  
30 miles from New York City, Erie R. R.  
Reliable breeders of blue blooded registered Airedale Terriers  
**THE BEST CHIM FOR CHILDREN**  
and the most reliable guard dog of the home  
We always have fine young stock for discriminating dog lovers. If we can't please you nobody can.  
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Housebroken specimens that are prize winners offered to the discriminating buyer, also puppies bred from noted winners.  
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The most unique and acceptable gift to your sweetheart or child. The ideal house pet and companion.  
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Send Stamp for Catalog  
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I offer a few fine raised Airedale dog puppies at \$25 each. They are sired by the English winner "BRIARCAN SULTAN" and RED HACKLER, and are guaranteed. I haven't many but there are no culls.  
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A handsome thoroughbred Spaniel, not only makes an ideal Christmas gift, but is a source of the greatest pleasure and satisfaction throughout the year. Unsurpassed as hunters, house dogs, and companions for ladies and children. A grand assortment of choice young stock in all colors, bred from registered prize-winning strains. Prices moderate and satisfaction guaranteed. State wants.



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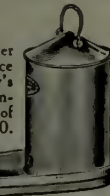
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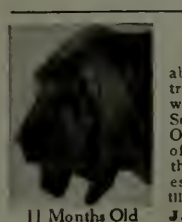


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Companion for your child and guardian of your property. Best Kennel in America.  
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The most perfect family dog. Companionable, intelligent, affectionate. Natural man trailers, long registered pedigrees; always winners on the show bench and on the trail. Several grand puppies whelped December last. Orders now taken for Sheba's pups, the dam of the greatest trailers ever known, also from the imported litter sister of England's greatest trailer "Shadow."  
Illustrated Book, 20 stamps. Photograph, 25 cents  
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We have some red puppies by "Taddie", ex a red Ch. "Chumme" matron, perfect heads, low to ground, very small.  
Pekingese purchased from this kennel have won at the Westminster and all the principal shows during the last three years.  
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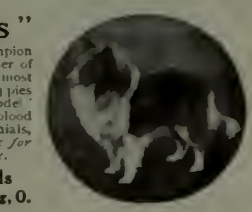
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We have puppies by the world's Champion Collie "Ch. Southport Sample" a winner of 15 Championships in England, the most perfect Collie living, also high class puppies by our famous winner "Tazewell Mode" also matured stock of the very best blood lines, write for prices and list of testimonials, we guarantee to please you. Send for our new 24 page illustrated catalogue.  
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Though they hold all butter and milk records, both in actual quantity and in economy of production, still they are an all-round breed. When properly fattened, their beef can be distinguished from Shorthorns' only by an expert.

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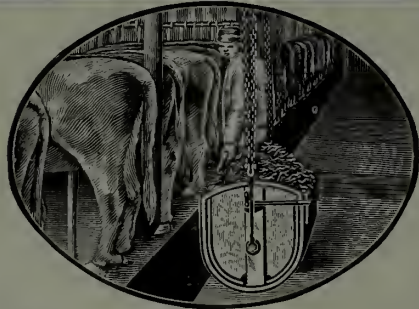
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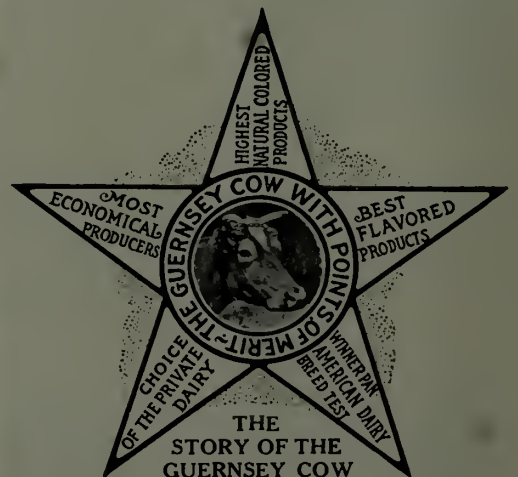
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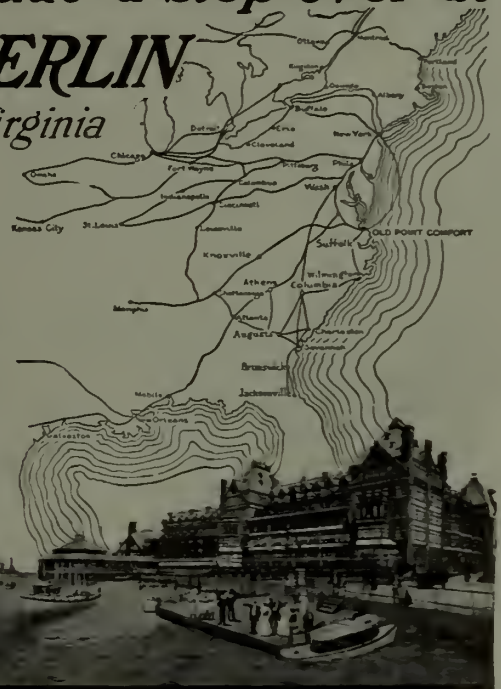
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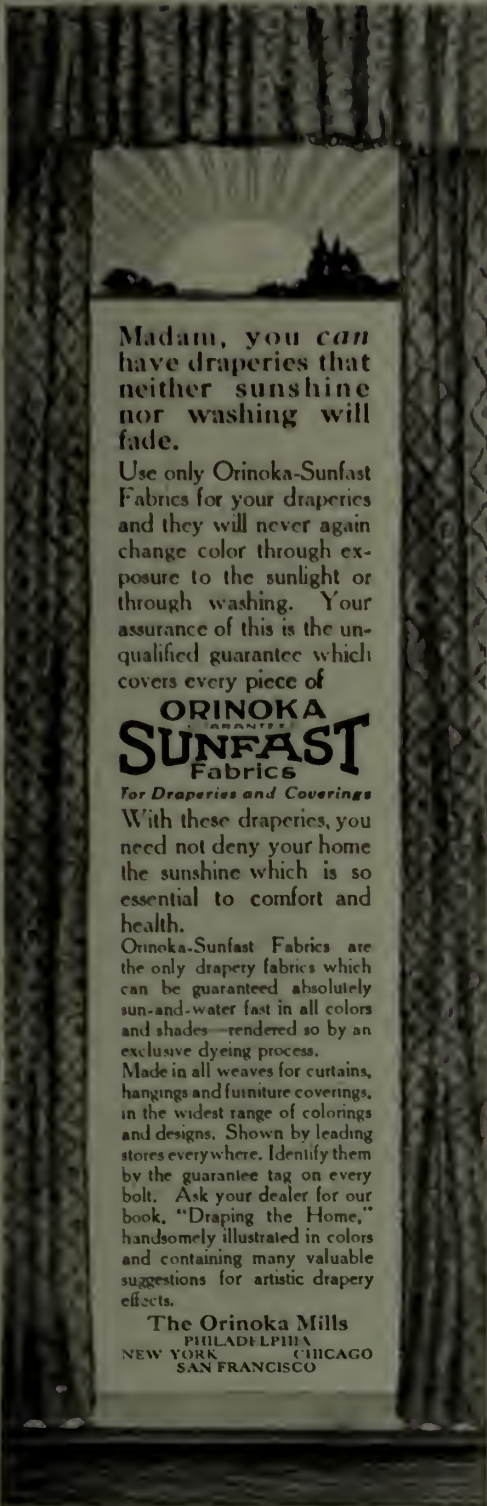
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says of

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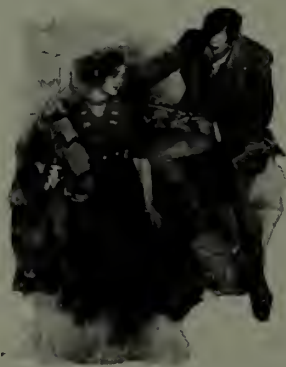
¶ Another 500,000 will be added to Mrs. Porter's record for 1912.

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## TREATING DISEASED CHESTNUT TREES

IN OUR issue for September 1, 1911, we reviewed briefly the present condition of the chestnut blight in and about New York, as well as the methods which several different progressive communities were adopting to stop its ravages. We spoke particularly of the difficulty of fighting this blight because, living as it does beneath the bark, it cannot be reached by sprays or fungicides in the ordinary way. Furthermore, in sections where the infection is severe and almost complete there is little hope of saving the trees, and the only course is to cut and remove them to prevent further spread. It was also stated that where only a few trees are very slightly affected it is sometimes possible to check the ravages of the disease by pruning the branches and burning them.

Since the publication of our article a Farmer's Bulletin on "The Control of the Chestnut Bark Disease," by Haven Metcalf and J. Franklin Collins, pathologists of the United States Department of Agriculture, has been issued by the Government Printing Office. It contains much that is already familiar to readers of COUNTRY



While ineffective as a means for stamping out the chestnut blight, spraying is a good preventive

LIFE IN AMERICA, but the directions given for preserving the life of ornamental trees only slightly affected by the blight are particularly important because of the success which has attended the efforts of Government experts along the lines set forth. Perhaps it is best to quote directly from the bulletin:

"Where valuable ornamental shade, or orchard chestnut trees become infected in one or more spots, the life and usefulness of such trees can be prolonged for several or for many years, depending largely upon the thoroughness with which the recommendations herein given for cutting out the diseased areas (lesions) are carried out. These recommendations are based upon the results of extensive experiments with hundreds of lesions during the past four years. These experiments were performed for the most part by the junior writer.

"The essentials for the work are a gouge, a mallet, a pruning knife, a pot of coal tar, and a paint brush. In the case of a tall tree a ladder or rope, or both, may be necessary, but under no circumstances should tree climbers be used, as they cause wounds which are very favorable places for infection. Sometimes an ax, a saw, and a long-handled tree pruner are convenient auxiliary instruments, though practically all the cutting recommended can be done with a gouge with a cutting edge of one or one and a half inches. All cutting instruments should be kept very sharp, so that a clean and smooth cut may be made at all times.

"By cutting with a gouge into a diseased area



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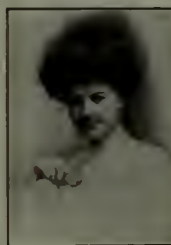
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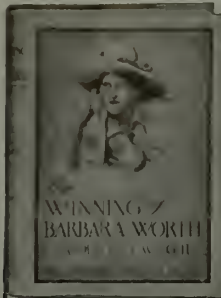
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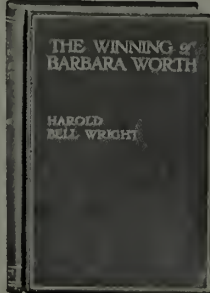
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Section of a branch girdled by the fungus

a characteristically discolored and mottled middle and inner bark is revealed. All of this diseased bark should be carefully cut out for at least an inch beyond the discolored area if the size of the branch will allow it. This bark should be collected in a bag or basket and burned. If the cutting is likely to result in the removal of the bark for much more than half the circumference of the branch or trunk, it will probably be better to cut off the entire limb or to cut down the tree, as the case may be, unless there is some special reason for attempting to save the limb or tree. The fungus usually, though not always, develops most vigorously in the inner bark next to the wood. When this is the case, not only all the diseased bark and an inch of healthy bark around it must be removed, but at least two or three annual layers of wood beneath the diseased bark must also be gouged out. Special care should be taken to avoid loosening the healthy bark at the edges of the cut-out areas. Except in the early spring this is not difficult after a little experience in manipulating the gouge and mallet, provided the gouge is kept sharp.

"Small branches which have become infected should be cut off, the cut being made well back of the disease—at least two or three inches, if possible.

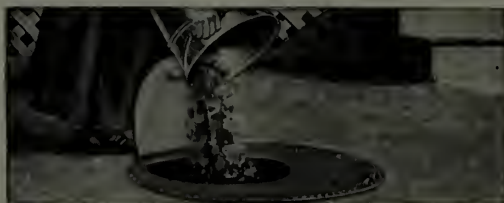
"All cut-out areas and all the cut ends of stubs should be carefully and completely painted with coal tar. A good grade of paint has been recommended by some authorities as superior to tar, but it is more expensive. If the tar is very thick, the addition of a little creosote will improve it for antiseptic purposes as well as for ease in applying. If the first coat is thin, a second one of fairly thick tar should be applied within a few weeks or months. Other coats should be applied later whenever it becomes necessary.

"The entire tree should be carefully examined for diseased spots and every one thoroughly cut out and treated in the way already described. In case of suspicious looking spots a portion of the outer bark can be cut out with the sharp gouge as a test. If this cut shows the characteristically discolored bark the spot can be considered as diseased and cut out accordingly; if the cut shows healthy bark, it need merely be treated with tar or paint, as other cuts are treated. In examining a tree for diseased spots it is always best to begin at the base of the trunk and work up, for if the trunk is girdled at the base it is useless to work anywhere on the tree.

"When the spores of the fungus are present, especially in the form of threads, or "horns," they are readily washed down the branches and trunk by every rain, and are thus carried down to or toward the base of the tree. As a result the base of a tree, the crotches, and other places which afford easy lodgment for the spores are particularly subject to infection.

"Although spraying with any of the standard fungicides appears to have no effect whatever in stopping the progress of the disease after it has once started in the inner or middle bark, there is little doubt that it is of use in preventing infection from spores washed down by rain from the upper part of a tree or from spores which have been transported from other trees. For this reason the spraying, after each rain, of the parts of a tree below a spore-bearing lesion is recommended, but only on an experimental basis. If no spore-bearing lesions occur on the tree, there is less apparent reason for spraying. The scattering of slaked lime about the base of a tree and the whitewashing of the trunk and larger limbs have shown apparently beneficial results in preventing infections and perhaps also depredations of borers.

"A tree which is being treated for individual infections must be carefully watched and the diseased spots promptly cut out as they appear. For this purpose each tree should be examined very carefully two or three times at least during the growing season."



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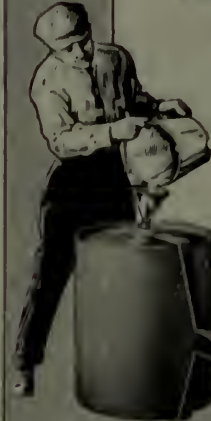
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Garden City DOUBLEDAY, PAGE & COMPANY New York



# THE TALK OF THE OFFICE



"To business that we love we rise betime  
And go to 't with delight."—*Antony and Cleopatra*

## TEN YEARS OF COUNTRY LIFE

*Country Life in America* has just entered upon the eleventh year of its existence. There weren't any fireworks that we noticed, but that was doubtless an oversight on somebody's part.

We are all of us naturally inclined to attach undue importance to our own birthdays; but if it is a common human weakness, perhaps a magazine may be pardoned for indulging in it. If we don't make a noise about it, apparently nobody will.

It may seem egotistical to set apart these ten years as having any special significance; but as a matter of fact, this first decade of the new century has seen some rather remarkable achievements and advancements in the broad realm of country life.

Of course, we can't pretend that we have been the cause of it; rather, we have been one of the results. *Country Life in America* was established as the organ and mouthpiece of a new movement.

So perhaps our Birthday Number, to appear April 15th (which the advertising department optimistically christened in advance the "Inch-thick Number"), is not such a presumptuous affair, after all. We shall talk a little about ourselves and a great deal about larger matters—progress in agriculture, horticulture, plant breeding, architecture, outdoor sport, forestry, animal and poultry breeding, game preservation, the vacation habit, suburban development, the automobile, nature study. Among the authorities who have contributed these articles are Professor L. H. Bailey, Thomas Hastings, Walter Camp, Assistant Secretary of Agriculture Hays, U. S. Forester H. S. Graves, George T. Powell, Dr. W. T. Hornaday, Dr. Woods Hutchinson. A more detailed list of the contents appears on another page. The present remarks are merely by way of explanation. Our modest birthday is rather closely related to the birthday of an important epoch.

## THE FIRST MILLIO

We have been publishing nature books almost since the very beginning of our business—and it is probably true that the first volume of our Nature Library (Neltje Blanchan's "Bird Neighbors") has had a wider circulation than any other similar book. But the hundred odd thousand copies of this guide

seem small in comparison to the circulation of the three volumes of nature fiction by Mrs. Gene Stratton-Porter—"Freckles," "A Girl of the Limberlost," and "The Harvester." "Freckles" has had since 1904 the unique record of reaching a wider circulation each year than in any previous year, with the prospect of continuing this for 1912; and the first million copies of these unusual tales of outdoor people and things has apparently only whetted the public appetite for more. In a

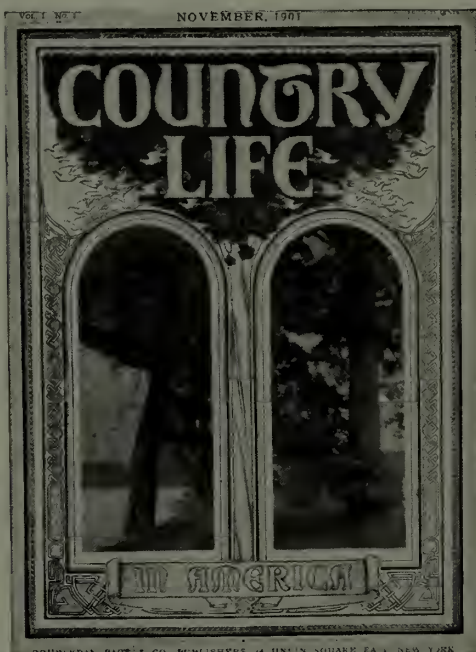
series of brilliant articles on American relations with Latin republics and on new phases of the work at Panama—its personal and human stories, and its vast significance to all nations.

## THE FARM CONFERENCE

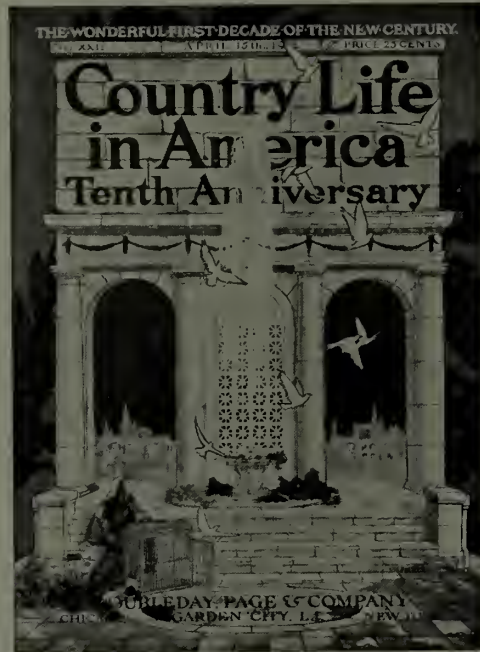
The *World's Work* Farm Conference was held at the Country Life Press at Garden City on the 15th of February. A score of visitors were present—the industrial agents and agriculturists of the great railroads, state secretaries of agriculture, and distinguished national leaders in agricultural development. Six hours of discussion showed a profound interest in the *World's Work's* undertaking to give conservative advice to farm seekers and a unanimous faith in the success of this enterprise.

## THOSE PRESENT

- Mr. J. A. BONSTEEL, Bureau of Soils, U. S. Dept. of Agriculture.
- Mr. L. J. BRICKER, General Immigration Agent, Northern Pacific Railway Company.
- Mr. H. R. BUCKEY, Immigration Agent, Atlanta, Birmingham and Atlantic Railroad.
- Mr. C. W. BURKETT, Editor, *American Agriculturist*.
- Mr. P. H. BURNETT, Industrial Commissioner, Lehigh Valley Railroad Company.
- Mr. HENRY CARGILL, Executive Secretary, Agricultural Improvement Association of N. Y. State.
- Mr. H. M. COTTELL, Agricultural Commissioner, Rock Island Lines.
- Mr. W. J. CRAIG, Passenger Traffic Manager, Atlantic Coast Line Railroad Company.
- Mr. K. T. CRAWLEY, Industrial Agent, Chesapeake and Ohio Railway Company.
- Mr. N. B. CRITCHFIELD, Secretary, Pennsylvania Department of Agriculture.
- Mr. W. W. CROXTON, General Passenger Agent, Norfolk Southern Railroad Company.
- Mr. J. B. DE FRIEST, General Eastern Agent, Union Pacific Railroad Company.
- Mr. J. J. DUNN, Secretary, Rhode Island Board of Agriculture.
- Mr. H. H. GROSS, President, National Soil Fertility League.
- Mr. J. F. JACKSON, Agricultural Agent, Central of Georgia Railway Company.
- Mr. G. W. KOINER, Commissioner, Virginia Department of Agriculture and Immigration.
- Mr. BRADFORD KNAPP, Agent in Charge, Farmers' Cooperative Demonstration Work, U. S. Department of Agriculture.
- Mr. F. H. LABAUME, Agricultural and Industrial Agent, Norfolk and Western Railway Company.
- Mr. S. G. LANGSTON, Land and Immigration Agent, Missouri, Kansas and Texas Railway System.
- Mr. E. C. LEEDY, General Immigration Agent, Great Northern Railway Company.
- Mr. O. L. MARTIN, Commissioner of Agriculture of Vermont.
- Mr. F. H. NEWELL, Director, United States Reclamation Service.
- Mr. C. J. OWENS, Secretary-Treasurer, Southern Commercial Congress.
- Mr. G. A. PARK, General Immigration and Industrial Agent, Louisville and Nashville Railroad Company.
- Mr. G. T. POWELL, President, Agricultural Experts' Association.
- Mr. J. A. PRIDE, General Industrial Agent, Seaboard Air Line.
- Mr. A. P. SANDLES, Secretary, Ohio Department of Agriculture.
- Mr. C. L. SEAGRAVES, General Colonization Agent, Atchison, Topeka and Santa Fe Railway System.
- Mr. W. H. SEELEY, Manager, New England Lines Industrial Bureau.
- Mr. F. R. STEVENS, Agriculturist, Lehigh Valley Railroad Company.
- Mr. F. S. WELCH, Agriculturist, New York Central and Hudson River Railroad Farm Bureau.
- Mr. P. B. WOLCOTT, Immigration Agent, Chicago, Milwaukee and St. Paul Railway.



Ten Years of Country Life



month or so we shall have ready a companion volume which shows the author at her best as a scientific, yet always illuminating and popular, student of nature—"Moths of the Limberlost." This is a sumptuous volume of Mrs. Porter's own wonderful photographs, many of them in color, which will turn every reader to this fascinating side of nature.

## OTHER OUTDOOR BOOKS

Some other notable outdoor books of this spring are "The Spider Book" by Professor John Henry Comstock, whose "Manual of Insects" is almost a classic; "The Forester's Manual," a handy guide to the trees and their uses by Ernest Thompson Seton, Chief Scout of the Boy Scouts; and a charming introduction to nature for little folks called "The Real Fairy Folk," wherein the lonely little girl in the big willow tree is told the secrets of the life about her by the birds and animals themselves.

## A TRIP TO LATIN AMERICA

Mr. William Bayard Hale, of the *World's Work* staff, has sailed with Secretary of State Knox on the Cruiser *Washington*, to visit Mexico, Panama, and South America. Read-

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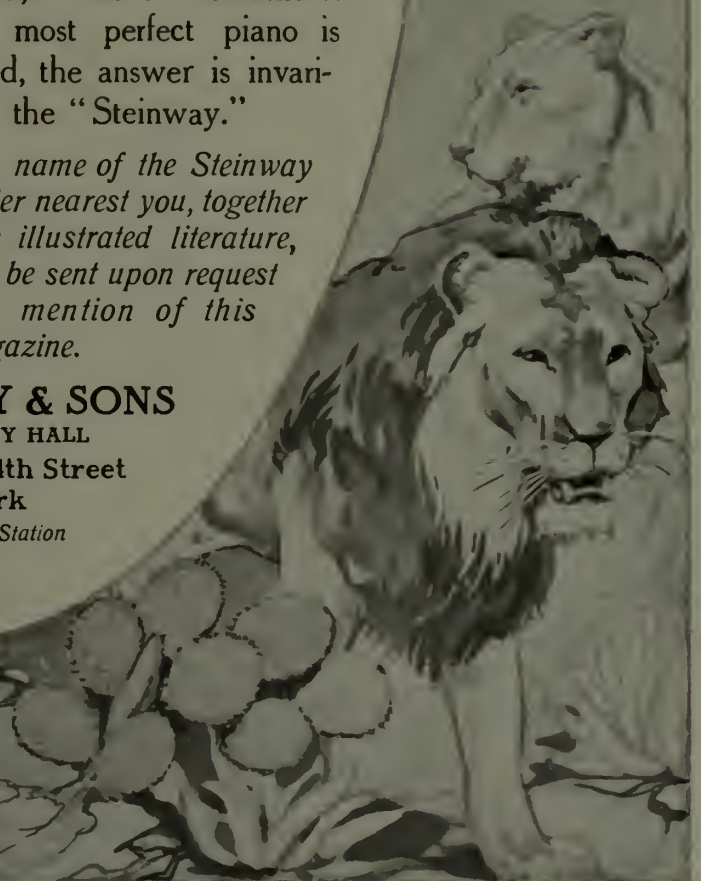
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*Music's Charm*





# The Exclusive of London.

**T**O-DAY English cut clothes are the fashion among smartly dressed men just as English cut coats for sports and bad weather are worn by well dressed women.

We have undoubtedly, not only the exclusive of Bond and Conduit streets, but the greatest assortment of English clothes which comes to America. There are but a few places where English made clothes can be bought, and of these few we are the one having the control, in this country, of two or three of the great English firms.

Whatever is new in cut, in material, in style, in London to-day, is here to-day at Wanamaker's.

The style is unmistakable and inimitable.

Of the many coats we have, we show two of the newest for general wear — the Tandem, a semi-dress coat, and the Defiance, a real English top coat — new but not extreme, having the style which is a part of the Englishman.

Then the fabrics: it is a well-known fact that English clothes are without a peer both for styles and wear. The workmanship is so careful, so far-seeing — the yarns, for instance, are allowed to stand in the dye years perhaps, which gives fast colors, which the oil used in dyes makes all the material practically shower proof.

## REDLEAF LIGHT WEIGHT SILK HAT.

Lincoln-Bennett of London, hatter by royal appointment to his Majesty (exclusively represented in New York and Philadelphia by the John Wanamaker stores), has originated a top hat which weighs exactly three and two-thirds ounces.

It is the lightest weight silk hat made, and that man who clings to a topper in spring and summer will do well to make its acquaintance. Price, \$8.

## MEN'S REDLEAF GLOVES.

Chevette pique gloves made for John Wanamaker in England, have something of extra quality and style particularly gratifying to men who like the best two-dollar glove.

## REDLEAF TIES OF HAND-WOVEN SILKS.

Spitalfield's silks are hand-woven in the old, old way, just outside London. There we go to pick out patterns to be exclusively shown by John Wanamaker. Made to your order at \$1.75 for bat tie, up to \$3.50 for folded squares.

## MOTORITIES.

Everything that a man needs to make himself comfortable in the motor (provided he has the automobile), in the way of English ulsters, weather-proof slipovers, gloves, hats, robes, lunch baskets, etc., can be found in the John Wanamaker Motor Apparel Shop. Reasonably priced.

*Tandem* — a coat used greatly at race meetings abroad and for semi-dress to wear over lounge suits. In fancy fabrics and in some plain colors. \$40.00.

*Defiance* — the second coat illustrated, a street model which is having a great vogue in England to-day. It is loose, roomy with big patch pockets, and falls only to about the knees. In three shades of English covert cloth and a few tweeds. The sleeves have seams on top and yoke and sleeve lining of silk. \$40.00.

## REDLEAF ENGLISH COLLARS.

Redleaf, the sign of London exclusiveness, is not the only mark of distinction borne by these typical English collars, ever growing in the popularity of well-dressed men. Pure linen. In quarter sizes, 25 cents each.

## REDLEAF SHIRTS.

By direct co-operation with English mills, patterns unlike any other shown in America, are to be found in the Men's Custom Shirt Shop just inside the Wanamaker's doors. English madras, twills, and spun silks are shown which, cut by one of the best shirt cutters in America, will be made for \$3.50 to \$12.

Silk shirts from London, made in the Bond street way, \$6.50.

## SMART COATS FOR WOMEN.

No smartly dressed women either here or abroad can afford to be without the right sort of English clothes for sports and bad weather. How "just right" the woman looks who wears an English cut coat, on the steamer, for motoring or for the polo matches later in the season. Out of the many models we import we are showing two:

*The Caunaught* — a smart motor coat of tweed. A modification of the Balmacaan, not quite so full and slightly longer, giving better protection in a motor. It may be fastened at the throat or worn open. \$45.00.

The Balmacaan, of which we also have a variety, is also \$45.00.

*The Beaufort* — a white coat, loose, easy to slip on over a suit, new in cut and material, just what you'll want for country life as the spring comes. Made of gaberdine fabrics rain-proof — \$32.00. Also similar lines in the "Rainaway" (Colors) \$30.00.



*Caunaught*: a tweed coat for motoring or steamer wear which is a modification of the Balmacaan, Adjustable neck. \$45.00.  
*Beaufort*: a coat of white gaberdine, Rainproof. \$32.00.

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Philadelphia

Paris

New York

London



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BEAUTIFUL FLOWERS BLOOM ON THE VERY BRINK OF THIS GLACIER ON THE SOUTHWESTERN SLOPE OF MT. RAINIER (OR TACOMA). THE PHOTOGRAPH WAS TAKEN FROM A PORTION OF THE PARK KNOWN AS INDIAN HENRY'S HUNTING GROUND, THE ELEVATION OF WHICH IS ABOUT 6,000 FEET. (See pages 38 and 68)



# COUNTRY LIFE IN AMERICA

VOLUME XXI—NUMBER 11

April 1, 1912

PRICE, 25 CENTS  
\$4 A YEAR POSTPAID



Poet's narcissus and tall late tulips informally planted—the most desirable way of placing all bulbs in the hardy border

## TULIPS IN THE HARDY BORDER

By H. S. ADAMS

Photographs by F. A. WALTER

**F**RANKLY, I cannot abide beds of tulips. I admit that it is a most colorful way for municipalities annually to amuse the public for a week or so at its own expense, and in no other way can the suburbanite make such a spring splurge out of doors; but it does seem dreadful to let red, yellow, pink, and white run mad from one end of the geometry to the other, especially at a time when nature is striving to be at her daintiest instead of her showiest. Moreover, why should the tulip's beauty of form wantonly be sacrificed on the altar of color?

No, you may have all your squares of tulips, and

your circles, parallelograms, triangles, diamonds, and what not, and I'll take my little clumps that, here and there,

brighten my borders every spring and ravish the eye with a loveliness impossible with one of those awfully regular designs. Not that I would lay down the law to any one else; I merely express a deep-rooted preference, with a sneaking hope that more of the growing race of hardy gardeners may come round to my way of thinking.

One of my special delights the past spring was a clump of the old-fashioned, tall, single late tulips—the kind that is a brilliant deep red, with the inner bases the



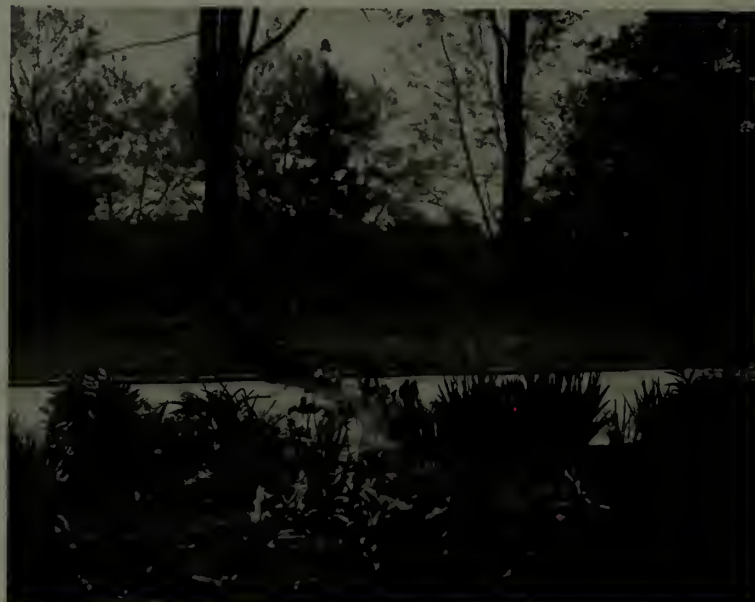
These double mauve and yellow tulips contrast well with the pastel blue of the *Amsonia Tabernamontana* in the background and the white of the candytuft

shade that passes for "black" in flower coloration. There were five of the blooms in the group and, apart from the bit of glowing color, it was an exposition of flower, stem, and leaf form that would have charmed a Japanese. The bulbs were part of a "find" in the neglected dooryard of an old house that came into the family. All told, there were, perhaps, forty of the little bulbs — remnants of a one-time garden, and so tightly packed together in the ground that there probably had been no blossoms for years. Some one's neglect was my opportunity and I proceeded at once to move the tulips to my hardy borders, planting them in groups of odd numbers, and giving the bulbs the room that they sadly needed. Now, after three years, they are rewarding me. Eventually I hope to add to the borders another old favorite that is getting rather scarce — the single, pure white tulip with blue inner bases.

The red *Gesneriana* (*Hortensis*), the pink and white *Blushing Bride* and the yellow *Bouton d'Or* are other single tulips that I have planted after the same manner, but with rather less satisfaction, as the bulbs were purchased and do not possess the desirable element of association. Another variety that I have is the adorable *Little Lady* tulip — a veritable joy of the garden. All of these, like the first two mentioned, have the advantage of good staying qualities, which is a prime consideration with me, as I do not take up any of my bulbs after blooming, my idea being to let them follow their own sweet will in the forming of clumps of increasing size. Of course, as the years go by, there will be need of thinning out; but, from my observation of old gardens, even where there has been obvious neglect, tall, single tulips safely may be left undisturbed until there are a dozen or so bulbs that flower — the natural increase of an original planting of, possibly, only three. I recall, in particular, a clump of fifteen single yellow tulips thus self-disposed that, to my mind, was a superior touch of color to twenty times the number set in a "pattern" and each just so many inches apart.

All of which is preliminary to saying that there is no better time to go and do likewise than right now. By all

means cut up your lawn for beds of tulips if your heart is set in that direction; but, if you have none of these flowers in your hardy borders, make up for the omission this fall. And give the shrubbery some while you are about it. Plant in clumps of odd numbers, avoiding all straight lines like poison, and don't be particular about putting them only along the edge; they can go in anywhere between the herbaceous plants, as they will be through blooming



Yellow parrot tulips, self-disposed in a picturesque clump

before most of the latter overtop them. Once planted let them take care of themselves a matter of years; if any run out, as is sometimes the case, you always will have had your money's worth.

Besides the six varieties spoken of, there are many others that, if not all as good stayers, do at least give full equivalent in a single season's bloom for the money that you lay out. Personally I do not care much for double tulips, though I long have grown them in my borders; but I confess to a sudden conversion this year and, I regret to say, outside of my own garden. In May I ran across some double mauve tulips, scattered through a series of hardy borders in little clumps, and the color note was a wonderfully fine out-of-the-ordinary one. While the best contrast was with hardy white candytuft, an unusual and far from unpleasing effect was obtained by planting a group of the tulips in front of a well established clump of *Amsonia Tabernamontana*, whose foliage kept the pastel blue flowers just far enough removed from the mauve. Unfortunately, the name of the tulip was lost beyond possible recall. However I think a safe guess would be *Violet Foncé*, that name describing the color pretty well. I cannot recommend this double tulip too highly, either alone or in pretty close juxtaposition with yellow or white varieties blooming at the same time.

Despite their persistently scraggly habit, I can also recommend for similar planting the picturesque parrot tulips that, somehow, never seem to be half so much esteemed as they ought to be. They are so fantastic of attire and behavior that they might be called the court jesters of the garden. The yellow *Florentine* tulip — beautiful, fragrant and cheap — is likewise desirable.

My tulip rule of planting I apply to all my hardy bulbs. There are clumps of various kinds of lilies, narcissus, and hyacinth in my borders, as well as crown imperial, glory of the snow, scilla, *Allium Moly*, triteleia, snowdrop, and guinea-hen flower. Each in its way is effective, and as they straggle along at different times there is one or more of them brightening the borders in spots from late February to early June.



Tulip form in perfection, but a little too close together

# THREE CALIFORNIA HOMES

Photographs by GRAHAM PHOTO CO.



Residence of Dr. R. Schiffman at Pasadena. A good example of the Maryland Colonial type of architecture. Greene & Greene, architects



The Spanish style of architecture seems most truly to "belong" in California. The home of Mr. George Haynes, at Los Angeles. Charles Whittlesey, architect



The suburban home of Mr. Harry Weiss, in California. The grounds are of sufficient extent to admit of excellent landscape effects. Here the crimson geraniums and white Shasta daisies bordering the driveway form a striking color combination

# THE WONDERFUL ALPINE FLOWERS OF MT. RAINIER

SOME LITTLE KNOWN SPECIES THAT WOULD ENRICH OUR ALPINE GARDENS  
IF WE COULD LEARN HOW TO TRANSPLANT AND ACCLIMATIZE THEM

Photographs by A. H. BARNES



Copyright by A. H. Barnes

Snow Lake on Indian Henry's Hunting Ground lies about 6,000 feet above sea level. The shores are not clear of snow until late in summer, when wild flowers spring into bloom like magic. (See page 68)



The mountain lily or squaw grass (*Xerophyllum tenax*) growing on the north side of the mountain at 6,500 feet elevation. About the last of June appear hundreds of waxy white flowers on long stems



The Scotch bluebell is the only flower in this series not exclusively alpine



The most noticeable and abundant flower on all slopes is the avalanche lily (*Erythronium Montanum*), called also snow lily, deertongue, and ad-dertongue. It pushes its way up through the lingering snow beds and forms beautiful masses of white flowers



The Alpine phlox seems to choose to grow where snow melts early from the steep slopes. It has scanty foliage and short stems, with flowers so close to the ground that they show only at short range. The blossoms are pure white for the most part, though there are occasionally to be found patches of a delicate lavender hue. The mountain's geographical position makes it the boundary between the arctic plants from the North and the plants of Oregon and California from the South. Its great altitude has a wonderful effect on plant life. This does not stop at the snow line. Even in the crater, on the warm rocks of the rim, will be found three or four mosses, several lichens, and at least one liverwort



The rare polemonium blossoms early in August in clusters of small pale-blue flowers



The Mertensia (*M. Siberica*), also scarce and inconspicuous, is a delicate, forget-me-not blue. It blooms late



The purplish blue lupines are among the showiest of the mountain flowers especially against the alpine firs



The much loved mountain asters (*Erigeran salsuginasus*), miscalled daisies, sometimes have blossoms two inches across



The red heather (*Phlodoce emp. triformis*) though an Arctic plant, withholds its bloom for a few weeks after its snow blanket has disappeared

The yellow alpine buttercup blooms abundantly in August in scattered patches over the slopes and flats at an altitude of about 5,000 feet



The red heather produces clusters of light purplish-red, bell-shaped flowers, with stems, stamens, and sepals of burnt sienna brown

# THE STORY OF A PARTRIDGE NEST

By JULIAN BURROUGHS

Photographs by the author

WHILE looking for arbutus one day last April, my father stumbled upon the nest of a ruffed grouse or partridge. The nest being near the road to Slab-sides and having but two eggs, afforded us a rare opportunity to observe the mother grouse throughout the laying and nesting period.

Our going to the nest every day made the old bird, already wild from having been shot at the fall before, still more wild. She would boom up and hum away through the trees when we were some distance from the nest. Always, however, the eggs were covered with leaves that the old bird managed to draw over them as she sprang off, and when we happened to come to the nest when she was not at home, as we often did during the laying period, we found the nest entirely filled with leaves until it was level with the surrounding forest floor, thus making its discovery by any eye impossible. Because of the animals that hunt by the sense of smell — foxes, weasels, skunks, and raccoons — we were in constant dread of finding the eggs destroyed.

At first the eggs were added irregularly, but toward the last there was a new egg every day until fourteen in all were laid, when on May 9th incubation began. When the mother grouse began to incubate, her behavior at once changed; instead of booming up and away, she would sit flattened out on the nest until we were within fifteen or twenty feet of her, when she would suddenly dart off the nest, going with great swiftness through the brush, half running, half flying, "quit-quitting," whining like a puppy, and often dragging her wings. As during the laying period, the eggs were always covered with leaves. Every time on leaving the nest at our approach the grouse took the same course, going up a bank and over a big rock where she would invariably stop to look back at us. The instinct of the grouse to feign inability to fly when her young or nest is approached, whining and dragging her

wings, has long puzzled naturalists as to how it has ever been developed. At any rate it is a pretty ruse, the mother offering herself to draw the danger away from her young, and one that she plays in agonized seriousness.

On exactly the twenty-fourth day the eggs hatched, the remarkable thing about it being that there was no dragging along of the hatch as is generally the case with our domestic hens; every egg hatched and every one at exactly the same time. For a grouse chick to be a day late in hatching would be fatal; there must be no delays, no waits for the tardy, no stragglers. Such is the all-pervading wisdom of nature!

When I went to the nest on the evening of the twenty-fourth day the old bird allowed me to approach very near before she darted off the nest, going in a new direction and whining loudly. I paid her no attention, for out of the nest spilled a mass of brown grouse chicks, instantly hiding in the leaves which they so closely resembled in color that it was with great difficulty that I was able to gather them up and replace them in the nest, where they

at once snuggled together under my hand. The nest was full of the empty shells each neatly opened in a line about the large end, the cap in many cases still hanging, like a lid, by the little piece of shell that the chick does not pick behind his head. These empty shells I removed and because it was cool and the young still damp, evidently having been out of the shell but an hour, I hurried away.

The next morning on my return I approached the nest very cautiously, trying to secure a picture of the mother grouse. She would not let me come near enough however, and I contented myself with taking some pictures of the chicks, the old bird meanwhile employing all her arts to get me away from the nest. Coming back three hours later the flock was gone, having begun their travels through the woods. May they prosper and outwit the enemies that await them in every forest aisle!



One of the little ruffed grouse chicks, showing its size compared with that of a hand



An early lesson in nature study. John Burroughs explaining the wonders of a bird's egg to his little grandson



Ruffed grouse chicks in the nest, about fifteen hours old. There were fourteen of them and not one moved during a time exposure





Copyright 1911, by Detroit Photographic Co.

Up the river which separates "Maryland, My Maryland" from the old manors of Virginia, only a few miles from Washington, is the Great Falls of the Potomac, one of the most picturesque of the scenic beauties near our National capital

## BEAUTIFUL AMERICA

### V. THE SOUTH

By THOMAS NELSON PAGE

Photographs by H. C. MANN, THEODORE EITEL, E. J. HALL, W. M. CLINE, H. G. HEALY, J. I. WILLIAMS, R. H. SCADIN, G. J. KOSSUTH, H. P. COOK, N. BROCK, FOLTZ, Detroit Photographic Co., and others

TO THE Southerner, the term "The South" is like the fabled tent of the Oriental story which one might hold concealed in the palm of his hand, but which by a charm might be expanded to shelter a myriad men. That charm is to know the South, and when a Southerner says, "know the South," he means love it, for in his mind the two are inseparable, if, indeed, they are not the same. The South, to those who know it, is not geographical — at least, not mainly so. As in France, the Midi is the simple term for the region where, in the mind, the sun shines ever at high noon — where the Maritime Alps tower above the sunlit hills and Provençal songs float up from the vineyards — so here, history, sentiment, romance, geography and charm all blend into one har-

monious whole and form the enchantment which seizes and holds in thrall the heart into which the spirit of the South has sunk. And here lies the whole secret — the South is something beyond mere physical vision. It is partly a phase of mind, a point of view.

"To such as see thee not my words were weak;  
To those who gaze on thee what language could they speak?"

That she has her faults, even the most prejudiced Southerner will admit in his cooler moments; but it happens that he is not always cool where the South is concerned.

Asked to describe the South, even geographically, the Southerner thinks of her in terms that indicate her peculiar character and denote her as separate and distinctive. He thinks of "Maryland, My Maryland," and of Fort McHenry with "The Star-Spangled Banner" and if he be of proper age, he passes Southward "By Blue Patapsco's Billowy Dash," toward the "Land of the Citron and Myrtle." He may then turn toward the "Land of the Sky," where "Grandfather Mountain" looks dreamily down upon the deep valleys through which winds the French Broad; or where, to the Westward, the "Great Smoky Mountain" veils his majesty in clouds. Or he may pass beyond to the gently rolling, gracious blue grass region of Kentucky and Tennessee; or further westward and southward to broad savannahs that, steeped in the sunshine, stretch to the Mother of Waters. And yet further on his vision may extend to the far South where the jessamine breathes its delicate odor on the air and the alligator sleeps through the quiet hours in still lagoons above which the Cherokee rose clammers to meet the moon.



The cotton fields of Dixie, producing the chief commercial staple of the South, have struck the chord of sentiment, and have been woven into the most touching songs of the country



A pioneer homestead in West Virginia, like many others in the mountains where, secluded from progress, a primitive and patriarchal life is lived



There is no more beautiful farming country than the Piedmont region, of which this scene in the Alleghenies of western Virginia is an example



The mountains are destined to be the great health resort of the South, as the sea-side of New England is that of the North. Several of the inland lakes, particularly Lake Toxaway in the Blue Ridge Mountains, are at present much in favor and justly so



Many rivers traverse this region, most of them as beautiful as the French Broad. They are the parents of this land, for they made it



Near Toxaway is Lake Fairfield, set among rolling hills and verdant slopes, hardly rivaled by Kent and the gracious counties of southern England



In the "Land of the Sky," not far from Asheville, Grandfather Mountain looks dreamily down upon Linville Gap several thousand feet below. It is the most rugged region of Dixie. This view is from the very beak of the Hawksbill overlooking the Gap



Does one seek health — let him come to the slopes of the Blue Ridge Mountains, tree-clad with broad leaf and fir, and there breathe the life-giving airs and find in this climate and altitude the true Fountain of Youth



Pines typify both of the Carolinas and northern Georgia. These great forests of symmetrical trees furnish material for two important industries

There are many hardwood trees in the South, also, but none are more beautiful than the groves of clean, gray-trunked beeches in Kentucky



Almost the whole seacoast of Dixie is one great, wind-swept, shifting series of sand dunes, riddled with bays and inlets, and separated from the mainland by broad sounds. The beach and surf at Cape Henry, Va. are particularly picturesque



ALL ALONG THE TIDEWATER REGION PLACID RIVERS GIVE THEIR SEVERAL CONTRIBUTIONS TO OLD OCEAN. AND WHERE THEY FIRST ENTER THE PROTECTED SOUNDS STAND SENTINEL PINES WHICH TELL BY THEIR GNARLED AND TWISTED FORMS THAT THEY HAVE WITHSTOOD THE RAVAGES OF STORMS FOR SEVERAL GENERATIONS

All have been written of by the sons and daughters of the South with that love which has made a literature whose value may not yet be told, but whose truth and charm, saturated with her picturesqueness, give promise of more than an ephemeral life.

"The little green leaves would not let me alone in my sleep,"

sighed one who was of the South and loved her — who, indeed, died for her. To him and to others as well, who lack Lanier's divine gift of song, the South, from her loftiest mountains, bathed in the blue of heaven, to her level marshes and their "little streams" with their "lap-fulls of stars and of dreams," is the land of dreams — the home of charm. Even geographically her confines are marked by no natural physical boundary. The Mason and Dixon line, though history records that it lies along the parallel of 39° 43' north latitude, is a far more real and determinate one than can be marked by any instrument. It stretches across the land in an indefinable course studded with the memory of historical deeds, of devotion to old ideals, adherence to lost causes, and aspiration to stars, some of which have set not to rise again. It extends to the lapping waves of the Mexican gulf and to where the Rio Grande meanders through the shining sands that mark the Southern border of that wonderful State whose acquisition added an empire to the country, yet came near disrupting the nation. It takes in every heart that thrills to the tune of "Dixie."

One may live in the South, yet be no more of it than "the Norther" that sweeps down at times from the Rockies, and changes the land of flowers to a wintry desert. But one cannot do this long. He either becomes Southern, or moves on.

Geographically, then, the South is divided not into sections, but regions; for it is all the South. From North to South it varies from temperate to tropical, or, at least, sub-tropical; from the land of the birch to the land of the moss-hung live-oak and the palm — from the land of the pointed pine to that of the magnolia and the jessamine. From East to West, it stretches from the sand-dunes of the Atlantic to the foot-hills of the Rockies. It embraces every climate, every altitude below the snow line; every form and phase of life indigenous to the North American continent. Tidewater, and mountain range; piedmont and prairie alike offer themselves to the casual visitor, the temporary sojourner, or the permanent resident. One



Many of the rivers are as noble as any on the globe, and others, like the French Broad in the heart of the Appalachians, possess the charm of picturesqueness

may gather ice or oranges within her borders. Thus, when one writes of the South he faces a wide range for his imagination. Socially, historically, geographically, commercially he may find scope for his enterprise, unexcelled in any portion of the land.

Should he deal with it socially he will still find a broad field in which to roam. From the manors of Maryland and the untitled baronies of the Rappahannock, the York, the James and the Ashley, to the Spanish patio of the region once owned by Spain, and still marked with the sign of the Latin, the architecture and the life alike vary in kind, while all hold the ineffaceable stamp of the South. And between these two extremes lie what variant forms and types of homes and residents!

Of the causes of this curious homogeneity in its web crossed by this not less curious variation in its woof, we have not far to seek. Along the coast in the first settlement the strain of blood was the same from the northern border of Maryland to Florida. Beyond the Florida line it was different. Later other strains came in. To the westward, in the French and Latin pressure across the mountains it was the same.

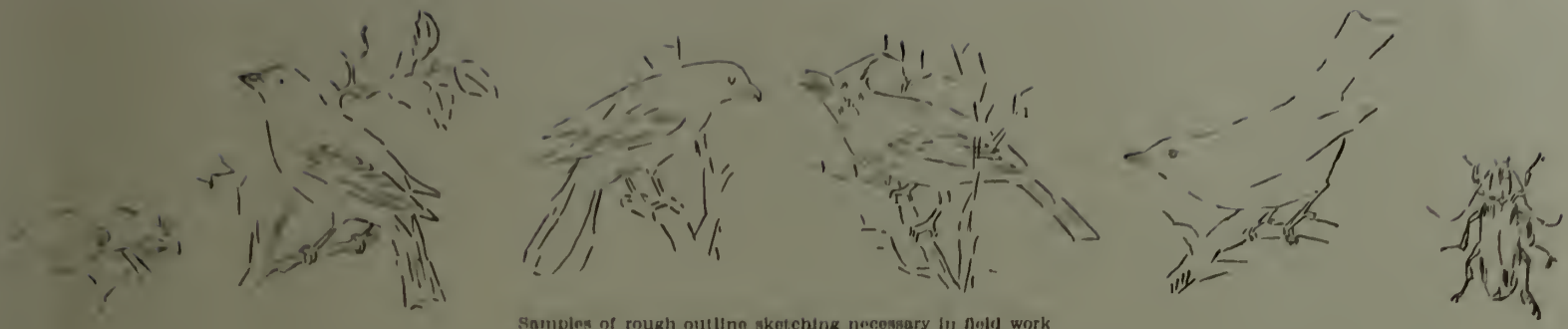
The institution of domestic slavery in its continuance segregated the section from the rest of the world, and brought the South at last into one compact, secluded, defensive whole. Then came causes which bound the South together forever — war and the years that followed.

The manor houses of Maryland and Virginia differed structurally from the plantation houses of the cotton states; but in the veins of their masters the differences were lost and they were all alike. The South was not more solid in her vote than she was in her life — in her devotion to certain things — ideals, some of them possibly time-worn and antiquated, but still ideals.

(Continued on page 74)



Wherever one goes in the South he passes over a continuous battlefield, even at the crest of Lookout Mountain, overlooking Moccasin Bend at Chattanooga



Samples of rough outline sketching necessary in field work

## A THOROUGHGOING BIRD STUDY PLAN

By THOMAS T. ALLARD

Drawings by the author



THE smallest child can easily be interested in living creatures like birds and insects, and the moment we make the child a bird student, and a lover of the birds, that moment we make the whole family of which the child is a member interested in the welfare of the feathered creatures. They enjoy with their child-nature-student, the bright forms and sweet songs of the birds, as they gaily flit about their doors, and

build in the tree tops, and join with him in protective measures for the birds' benefit.

Here is a plan for conducting the study, either by teachers in the public schools, or by clubs or societies devoted to nature work.

First, induce as many of the pupils and friends as possible, to become members of the Audubon Society. Thus pride and interest will be awakened in being a part of a great and noble organization from which various benefits will be derived, by correspondence and through valuable literature.

Second, begin the collection of a nature library. Many valuable bulletins and publications



may be got from the Superintendent of Documents, Government Printing Office, Washington, D. C. Upon request, a list of publications will be sent, from which selections may be made. As soon as possible, get a few good works on birds and other subjects which are to be taken up. Consult the nearest good library and select the books desired, from an inspection of those in the library. Much valuable assistance would be derived from the pages of magazines devoted to outdoor life.

It should be decided at the start to include drawing and water color work in the course throughout.

Having selected a book for general class use, and one or more good books for reference and study, the class is ready to begin.

It will be well to adopt a good unlined white paper, suitable for both drawing and

writing, in single sheets about 8 x 10 inches, for all the work which is to be preserved. There are many reasons why these single sheets are preferable to a book; a spoiled sheet may be cast aside; the work can be done more conveniently on the sheets than in a book, and the sheets may be combined in any order desired, and bound, at the close of the course. Each pupil should have hard, soft, and medium pencils, erasers, and a small scale of inches.

In several handbooks on birds will be found outline sketches showing the characteristic types of bills, feet, wings, etc., peculiar to the different families of birds. These sketches will be useful to follow in the first drawing lessons, omitting the uncommon types.

The teacher may now begin by sketching on the board a type of bill common to thrushes, large enough for all to see clearly. The teacher will then read to the class from the handbook the dimensions of the bill, and all will sketch it, life size, on paper. The teacher may now, handbook in hand, inspect the individual work, assisting and allowing each to compare with the sketch in the handbook.

The feet should then be taken up in a similar manner. These exercises should continue until the pupils can sketch without a copy when called upon, the bill and foot typical of thrushes, woodpeckers, sparrows, hawks, etc.

The body outline of the different types of birds should next be taken up, making no attempt at shading or filling in until several types can be well sketched from memory. The ability to draw at will, quickly and accurately the outline of a robin or thrush, a warbler, a wren, or a lark, will be of inestimable value in all subsequent work, and these exercises should be persevered in until satisfactory skill is acquired.

The class will now be prepared to make an outline sketch of a bird, let it be a blue-bird for example, filling in the wing and tail feathers, and dividing the figure into sections so that the names of the different parts of the bird may be learned as designated by naturalists. It is very important that all learn clearly the

names of the parts of the bird. When studying in the field with notebook and field glass, it frequently happens that the observer must be satisfied with a few short glimpses of a bird as it nervously darts about in the trees or shrubbery. One may detect a white bar on the wing, but not be able to locate it correctly on his sketch without a knowledge of the structure of the wing.

But being familiar with the wing feathers, he can instantly say, mentally, "greater wing coverts," or "lesser wing coverts," (as the case may be), "tipped with white," etc., and quickly enter it in his notebook.

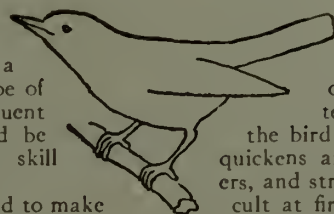
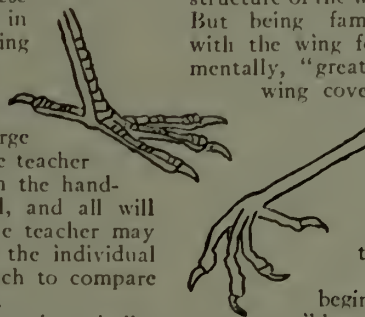


The shading, black and white work, and coloring which will follow, will be left to the teacher.

The class is now prepared to begin the outdoor work and, if possible, two trips per week should be made, to study the birds from life. Early morning will be found the best time for the outdoor studies. Each pupil should carry a suitable notebook, sketching pencils, and as many as possible should be provided with opera or field glasses. One glass can be made to serve for several if necessary.

Now the real pleasure and test of skill begins. Upon seeing a bird which can be observed for a moment, let each one of the class, not omitting the teacher, write out a description of the bird in his notebook. This practice quickens and sharpens the perceptive powers, and strengthens the memory. It is difficult at first, but if the observer is familiar with the names of the parts, he will be able, after a few trials, to fill in his description from a few quick glances. He will receive a sort of photographic impression of the bird, and will continue to see it mentally after it has flown. Note should also be made of its song, flight, nest, eggs, food. the locality it prefers, the season, and date.

After several birds have been studied in their native haunts, and from the reference books, carefully sketched, and (if possible) colored, it will be of great advantage if the teacher can take the class to



As the finished drawings appear when filled in at leisure and ready for the notebook

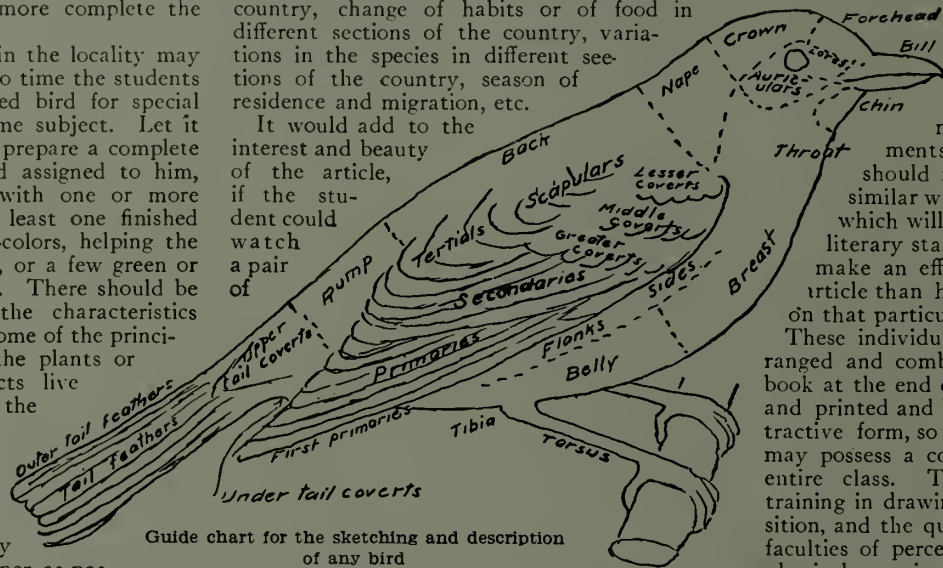
some museum, where stuffed specimens of the birds they have been studying may be observed in detail. Sketches and notebooks should be taken along, and side notes and sketches freely taken, to correct or make more complete the originals.

A list of the birds found in the locality may be prepared, and from time to time the students may be assigned one selected bird for special work, no two taking the same subject. Let it be the duty of each pupil to prepare a complete essay on the species of bird assigned to him, the essay to be illustrated with one or more original sketches. Have at least one finished sketch of the bird in water-colors, helping the effect with a twig or branch, or a few green or autumn leaves also in colors. There should be outline sketches to show the characteristics of the bird, and, if possible, some of the principal insects of its diet, also the plants or leaves upon which the insects live. All secondary sketches of the bird, insects, and plants, should be plain outline sketches, merely for the purpose of lucid illustration.

The life history of the bird should be written up as fully and in as interesting a manner as possible. He must be studied in his native haunts at every opportunity. Describe his

habits, range, foods, nest, eggs, song, flight, dimensions, his favorite abodes, color when in full plumage of male and female, color at different seasons and in different parts of the country, change of habits or of food in different sections of the country, variations in the species in different sections of the country, season of residence and migration, etc.

It would add to the interest and beauty of the article, if the student could watch a pair of



Guide chart for the sketching and description of any bird

these birds through the entire season, noting their arrival, their mating, nest-building, rearing

and feeding their young, bringing out prominently their traits of peculiar interest.

In a like manner the young entomologists and botanists of the class will study, observe, collect, classify, mount, sketch, color, and take notes, and finally produce the finished, illustrated essays, which must be the crowning achievements of their work. Students should read Thoreau, Burroughs, and similar writers, and try to acquire a style which will make the essay valued from a literary standpoint—in fact they ought to make an effort to produce a little better article than has ever been produced before on that particular bird.

These individual essays may be suitably arranged and combined into one souvenir class book at the end of the term, or year, or course, and printed and bound in inexpensive but attractive form, so that each member of the class may possess a copy containing the work of the entire class. These studies would embody training in drawing, water-coloring, and composition, and the quickening and developing of the faculties of perception and memory. Healthful physical exercise and pleasures, hitherto unknown in school life, would be experienced, by both teacher and pupils.

## A COÖPERATIVE FAIR

By RUDOLPH F. BUNNER



One of the booths

IN THE summer of 1910 an experiment was tried in an almost suburban community that promises to some extent to eliminate the middleman, and to reduce the price of existence. That is all that it promises, but to mark down the cost of living ever so little is a thing worthy of trying for. It was late in the

summer when it was inaugurated, so the little experiment was tried only once that season.

The place where this initial experiment was made by no means suggested a propitious environment. It was neither a suburban community nor a rural one. Forty miles from New York it might be as the crow is supposed to fly, but the railroad uses sixty miles of roadbed to get there. Most of the farms have been abandoned, for adequate compensation, to rich New Yorkers.

The scheme was nothing more than a revival of an old European institution, almost unknown here even in our Colonial days—a weekly fair day, which so easily and naturally brings consumer and producer together, to their mutual advantage.

Why did this institution never take root in America? Apparently it never did, in the North. We have annual fairs, generally in the autumn, but these have absolutely nothing in common with the intimate weekly fair day of Europe.

So it is very much to the credit of two expatriated New Yorkers who have settled down and built in the country that they evolved this idea, which under the circumstances was almost as original as if no over-seas prototype had shown the way.

The first time this shot was fired that is still echoing round the neighborhood (and knocked a few feathers off the soaring cost of living) the Village

Improvement Society officers lent a hand, but in ex-officio capacity.

The piazza and grounds of a little-used tennis club served for the fair grounds. On the piazza tables were arranged on which the smaller offerings were displayed. Generally the vendor stood by his or her lot, but in some cases one of the sponsors took charge. The club was hard by the main street, in the residential section, and easily reached.

The contributors were the surviving farmers of the near-by country, the small producer of anything edible, and the New Yorker with a surplus lot from his large garden. Sometimes in the latter instance the proprietor came in person, sometimes the gardener was allowed to sell for his own profit. The livery stables agreed to collect supplies, and some were brought by hand. In one case a few jars of preserves came from a little near-by settlement that keeps in touch with the somewhat larger town via an automobile stage.

The initial attempt was received with enthusiasm and nearly all that was offered was

sold, but not at current market prices. The buyer got the benefit of direct dealing.

And the producer, how did he fare? Well the producer was in most cases a man or woman who had a little surplus that would probably have gone to waste if not given away or sold at the fair. Some one somewhere might want that surplus measure of beans, but how locate them? The local paper is a weekly, and the New York dailies were hardly an available medium for advertising garden truck. So why, especially if the day was hot, pick them?

This was the answer: once a week the "I Have Nots" and the "I Haves" could meet, and be reasonably sure of so doing. And in some cases, in fact in most cases, there were no intermediary expenses.

The result was satisfactory all around and there was an aftermath of appreciative congratulations bestowed on the organizers, more especially by the small farmer and small gardener.

Another contributor was, as mentioned before, the New Yorker of means who gardens or farms. Usually his garden is large. Often his man in



On market day vendors may sell produce on the grounds from their wagons by paying an entrance fee of ten cents. The rent of a booth is twenty cents a day—half a booth ten cents.



charge knows his business. Perhaps the whole thing is run at a loss, but the owner is still a producer.

What becomes of the inevitable surplus in good seasons? At times it goes to dealers, it is sometimes sold by the gardener or farmer, it is given to friends, or goes to waste. From this source of supply came not a little produce to the fair.

Of course the main thing of the whole thing was the low prices — that brought the crowd. But this did not mean a loss to the farmer.

In 1911 the fair was opened on June 10th. The same grounds were used, but the arrangements were a little more elaborate. The stalls had canvas coverings or large umbrellas. Ten cents was charged for the privilege of selling from wagons driven on the grounds; twenty cents for a stall, ten cents for half a stall.

There was a rather limited supply offered the first day. The late spring and the rather high altitude had much to do with this. But the greater part of the products were sold at once.

The next week buyers and sellers increased in number, and the interest in the fair has steadily grown. Vegetables, eggs, poultry, and flowers were shown on the stalls. One man brought a hen, a small coop, and a flock of young chickens. Sachet bags were for sale, as well as slippers, candle shades, etc.

In allowing these latter articles to be offered there is suggested a germ that might benefit many others than farmers. A "market place" is needed in these days by many — one free from red tape or patronage, and open to both men and women. These conditions are provided for in a weekly fair.

The hours were planned to be from nine to four o'clock, which would give the epicure a chance to wander negligently round the grounds and pick out what he fancied and pay the price it was worth to him. And at twelve the laboring man could tear himself away from his job, at the first preliminary whir of the clock when it starts to strike, and spend some of his half holiday in buying good and low-priced food.

It is found however, that everyone leaves by twelve o'clock during the busy season — haying and gardening time — and half a day is all that the vendors will spare. With all this there is an average attendance of some two hundred people (no actual record has been kept) and many of the vendors come regularly every Saturday.

An unavoidable handicap was the necessity of holding the fair on the grounds of a tennis club. It has given it too fashionable a cachet to start with, and some of the people most to be benefited fight shy of it. Time may do away with this prejudice. Another local error is gradually to raise the prices till they approach those of the stores, the excuse being the offering of goods

fresher and better in quality. This also is a matter that will probably adjust itself.

The articles offered include all ordinary farm and garden produce, poultry, eggs, butter, vegetables, etc., as well as cakes, bread and jellies, cottage cheese, flowers, and honey. In addition are for sale (and sold) various pieces of fancy work, sachet bags, candle shades, and similar articles.

Some of the vendors kept track of their sales each week, and the following memorandum will give a general idea of what was sold. The prices were usually lower than in the store. Here is the record at one booth:

JUNE 24th

Bread . . . . .	\$ .50
Cake . . . . .	1.75
Jelly . . . . .	.40



The admission of vendors' wagons to the grounds permits the small producer to get his wares before the public with the minimum of trouble and expense

Chives . . . . .	10
Chili sauce . . . . .	.15

JULY 1st

Bread . . . . .	\$ .65
Cake . . . . .	1.50
Pie . . . . .	.20
Flour . . . . .	.70

JULY 9th

Bread . . . . .	\$ .85
Cake . . . . .	1.44
Lettuce . . . . .	.98
Fudge . . . . .	.80
Flowers . . . . .	.15

At the same table two other ladies sold respectively from June 17th to July 29th, \$14.95 and \$11.98 worth of food. In no case was anything taken home.

The town itself, rather than any village improvement society, should manage the whole business, and permanent grounds and structures should be set apart for the purpose. This would at once interest the entire public. Doubtless there would be local opposition at first, but that need not spell failure.

For a trial, inex-



Rural fair days in America would inevitably be less picturesque than those of Europe, but they might have a charm of their own and in time grow into tradition and permanence.

pensive booths and umbrellas can be used; the latter cost about \$2. One of the largest booths affords space for four tables. Six 2 x 4's support it, and a canvas roof covers the light framework. The lumber for such a booth (this does not include the tables) would amount to nearly \$13, the canvas \$20. The labor is in all carpenter work an unknown quantity — till you get the bill — and is of course a local matter. In addition is the expense of printing some large bills and postal cards, and of advertising in the town paper.

Why can not similar fairs succeed in various parts of this country? They would be local, and their benefits would also be local. But collectively they would be an influence for good. For just so much less food would go to waste, and just so many more people would find their household expenses reduced. And a goodly number would have an unexpected supply of pocket money. Such fairs would be more to the community than Fulton Market is to New York.

### FLAT GARDENS, AVAUNT!

FROM time immemorial the bay tree has filled a unique place in the formal garden, because it supplies the third dimension — height. Most formal gardens are flat, at least in the centre, and would be tame and monotonous if there were not some aspiring tree-like form to raise the eyes from the level of the ground. An ordinary tree would grow too high and shade the flowers, because its roots would be unconfined. Bay trees in tubs can be placed at the exact points where they fit to perfection, and give the finishing touch to the work of the landscape architect.

Of all formal trees, the bay is the best for this purpose. Nothing has such richness as a broad-leaved evergreen, and no tree of this class has anything like the history or sentiment of the bay tree — for it is the laurel of the ancients (*Laurus nobilis*). The Greeks crowned the victors of the Olympic games with laurel, and a modern formal garden without bay trees lacks that element that binds us to the greatness of the past. Nothing else has such a suggestion of antiquity. And the leaves are fragrant.

Bay trees are easily protected during the winter. They require absolutely no heat and very little light. The precious greenhouse space need not be devoted to them, for they will suffer no damage in a shed without artificial heat.

Tubs are an eyesore to some, but if they can be made to harmonize with the house, they will help to marry architecture and nature. If they cannot be harmonized, perhaps the ideal would be American holly growing in the open ground, trimmed like a bay tree, but not too formally. Such a feature would be better in winter, and if some specimens bore red berries all winter they would be glorious.

T. McA.



Wealthy people come from the country roundabout in their carriages and automobiles to patronize the fair, which helps to keep it going; but it was organized primarily for the benefit of the classes to whom the increasingly high cost of living is more or less of a tragedy

## HUMORS OF THE CAMERA

SOMETIMES the little, black, solemn-looking camera proves to be a humorist, and as with most other humorists its fun is best when it is unexpected. It is easy enough to take pictures of people grotesquely posed, but that's not genuine humor; it is mere photographic buffoonery. Moreover, the subjects, whether children or grown-ups, almost invariably appear self-conscious. It is when the camera pretends to be taking something serious or beautiful that it is funniest.

Among the hundreds of photographs that pass through our hands every month we occasionally come across one that makes us laugh, and it has occurred to us that we might share these laughs with others. So we propose to publish, from time to time, selections of humorous photographs.

Now maybe you won't think the accompanying pictures are humorous; but before you pass judgment we beg you to study the ecstasy on the face of the fluffy Caruso at the right, the harmonious arrangement of line in the giraffe's portrait, and the melancholy expression of the ragged Yosemite mule.

But if you still refuse to smile, fancy for the moment that we are from St. Jo, and show us something better. We will pay \$2 apiece for any photographs that seem to us humorous enough to use.

THE EDITORS.



Tampering with the scales. A study in feline attitude. by Effie M. Howlett



A feathered prima donna. In reality, a hungry young mocking-bird. By A. Radclyffe Dugmore



The rain-maker. Children make excellent subjects for the camera when caught un-awares; otherwise they are apt to look self-conscious. By Mrs. Wm. Durrant



To think that the sight of a peanut would produce a result like this! By H. H. Russell



A burlap sult and kerosene are needed to keep flies from eating up Yosemite mules. By O. F. Saunders



These Ontario boys, climbing a ship's wire cable, presented an unusual spectacle. By John Boyd



The finished tennis court, in spite of its geometrical design and glaring surface, can be made to fit pleasantly into the landscape. While it is advisable not to plant trees on the west side of the court, onlookers will find their presence in the near vicinity a relief in warm weather

## CLAY TENNIS COURTS

A SIMPLE METHOD OF CONSTRUCTION WHICH IS ECONOMICAL OF TIME, LABOR, AND MONEY — MORE EFFICIENT AND DURABLE THAN DIRT COURTS

By WILLIAM TUCKER

Photographs by WM. OTIS MEYER

ON NUMEROUS occasions I have been called upon to submit specifications for the construction of tennis courts. I have found that most people recognize no difference between a dirt court and a clay court, and express surprise when I inform them there is a difference — a vast difference. After my explanation of the methods adopted in the construction, the wearing qualities, and the cost of each, my clients have invariably selected the clay court. I have built a number of clay courts for clubs and private estates with no other than a solid soil foundation, and these courts are considered faster and better than the most expensive dirt court.

A word will explain the construction of the dirt court and point out its defects. (The word dirt here applies also to the "clay" courts made by a good many contractors in which the "clay" is merely yellow soil or hard pan.) An excavation to the depth of two feet is made and filled up with ten to twelve inches of tilford covered with six inches of ashes, and a final covering of four inches of dirt. All this takes time and men — and money. The tilford must be mixed, and the ashes carted. And when all is said and done the result of this expensive construction is an inadequate court. After a heavy rain the water seeps through the porous dirt covering and carries dirt with it through the foundation of clinkers and rubble. The water cannot pass through the tilford to any great extent, so it drains off to one side and in course of time the surface becomes uneven. The court, too, because of its absorbent nature, remains sticky and cannot be played on or even rolled for a considerable time. As soon as it becomes dry it cuts and breaks into dust under fast play, and a slight wind makes the court untenable.

Clay is sometimes used for the surface instead of dirt, but in using clay the costly under-construction is rendered useless, for clay being cohesive prevents the water from seeping through. As constructors of

this sort of court rely on their ash foundation for drainage they neglect to slope the surface, so that water forms in puddles in every slight hollow caused by the wear and tear of play.

The method by which I build clay courts which has met with unflinching success is as follows:

Select a piece of ground as nearly level as possible, and if covered with sod, remove and discard it. Under no consideration bury it under the court. Have the court set as near directly north and south as is possible and be especially particular to have no large trees on the west near enough to cast shadows in the afternoon. The court should measure 120 feet long by 60 feet wide. This will allow a free run back of 21 feet, sufficient to take the fastest of balls without fear of running into the fence, and a 12-foot space beyond the side lines, enough to enable one to cover cross-court shots.

It is presumed that the spot decided on is fairly level ground where none other than surface water has to be contended with. Whether or

not it is necessary to rectify the level of the court, it is advisable to have a surveyor or engineer put his instrument over the court and drive stakes at intervals of twelve feet. You will then see at a glance where to commence grading. A spirit level may be used if you wish to take your own levels, but extreme care must be taken to make this accurate.

The court having been surveyed and levels determined, paint the tops of the grade stakes red and drive long stakes beside them to prevent their being disturbed. At this stage of the work allowance must be made for the drainage of surface water; so commence at the centre of the court and drive stakes three inches lower than your grade stakes. Secure a strong mason's line to the top of the corner stakes and to the top of the centre stakes which were lowered. By pulling the line taut, you thus obtain the proper fall from both ends to the centre. (See dotted lines showing graduated fall in Fig. 1.) All stakes must be driven down to the line level.

The court is now graded with a permanent fall, but allowance has not been made for the three inches of clay which must be laid on to make it complete. Therefore drive new stakes behind the ones that have been lowered, keeping them a uniform three inches higher. These pegs will mark the new level and of course retain the 3-inch fall. Roll the surface well to harden it before putting on the clay. The grade stakes being set 12 feet apart (see dots in Fig. 2), divide your court into ten east and west sections, using 120 feet of 3 x 4 in. lumber, dressed on one side, and cut into 12-foot lengths. Lay the lengths dressed side up and flush to your grade stake levels, driving a peg here and there to keep them firmly in place.

Chip the surface of each section about 2 inches deep with a spade to facilitate amalgamation and keying of the clay. The clay should be hauled and dumped outside of the court and must be chopped up to about the size of egg coal or 2-inch bluestone. Lay wheeling boards

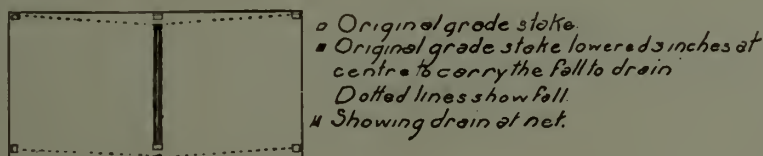


Fig. 1. Plan of the drainage system

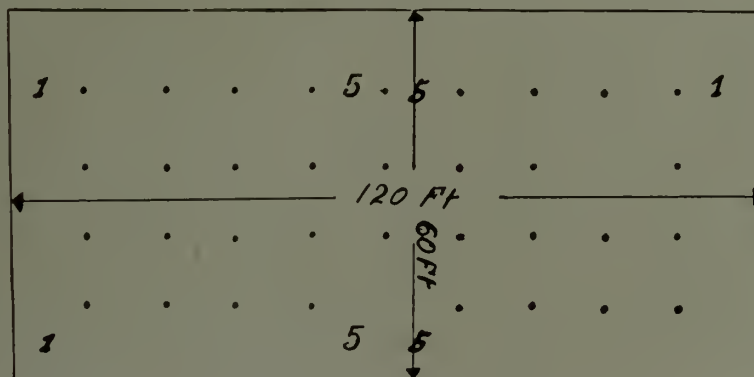


Fig. 2. Diagram for use in grading

outside of the section you are claying and dump your material over the frame. It should be spread 5 inches deep to get a 3-inch depth after it has been thoroughly tamped. Rake the surface with an iron rake, creating fine dust and rumblings.

It may be well here to say a word about the kind of clay to use. There are two kinds, bank clay and swamp clay. The former is brown in color, becomes hard and dry, and will crack open in summer unless continually watered. The latter, either yellow or blue, is ideal. It is very cohesive, of a natural puttyish character, and so resilient that it may be rolled in the hands without breaking. It retains enough moisture to keep a court surface true, tough, and extremely fast, and requires but an occasional sprinkling throughout the summer. Blue or yellow clay can generally be located in low-lying bottom land. Wherever skunk cabbage grows you are pretty apt to find clay bottom. It may be necessary to take off six inches or more of the top soil before exposing the clay bed. Approximately seventy-five loads of clay when chopped up as advised will be amply adequate to cover the area given.

Having filled in and tamped down a section, let two men take a straight-edge 14 feet long and screed it down as is done with cement floors, resting it on the frame and sawing it along. If there is any surplus clay carry it ahead. Fill in any depressions with dust, tamp, and draw the straight edge over again. Finish each section before advancing to the next. Utilize the outside boards of the first section to form the far side of the second. In taking up the remaining boards of the first section to form the outside of the third section a channel will be left which can easily be filled up and made even with the surrounding surface. Having finished one half of the court, commence at the other end and work toward the centre in like manner.

In the centre beneath the net open a trench 12 inches wide and 20 inches deep at one end, with a 6-inch fall to the other, and provide an outlet best adapted to carry away the water. Lay boards on the court and wheel away the excavated dirt.

To form the drain, lay sufficient 2-inch red land-draining pipes on the bottom of the trench 1 inch apart, covering them with coarse clinkers, brick rubbish, or 2-inch bluestone to within 3 inches of the level of the court, trodden down and laid as smooth as possible. Cover this with a 2-inch layer of clean long straw, and fill in with fine ashes or  $\frac{3}{4}$ -inch bluestone gravel.

Leave a slight hollow or depression over the drain to allow for the temporary accumulation of rain in case of a heavy storm, and, of course, use no clay here.

This ditch is as important a part of the court as any other, for if too shallow, or if improperly made, it will be unable to perform its function, and the advantage of sloping the court and thus removing small puddles will be nullified by the

large puddle which will stretch away from the net after a heavy storm.

The court is now complete except for trueing up the surface. To accomplish this rake it lightly all over, east to west, and north to south, to provide the necessary crumbings and dust to be distributed in any little depression by the double grader, which is easily made. It is constructed of two 2 x 3s, 4 feet long, fastened by cleats so that they are parallel to each other and 30 inches apart. A cord 8 feet long attached to the right or left of the centre will cause the grader to drag at an angle, cutting off knolls, and filling up depressions with the fine dust raked up for the purpose. It is important that the smoothing grader be dragged at an angle. If an excessive amount of clay accumulates it must be removed so that the grader will have free cutting power. Drag from each end to the centre and in one direction across the court only, cross-roll several times with a heavy roller, and then scatter one yard of coarse screened sand.



Tamping and leveling the court. The section to the right has been screeded and is now complete except for grading and rolling

After the first rain, when the surface has dried enough so that the clay will not pick up, roll it several times both ways, line out, mark, and the court is ready for play.

The dimensions of a tennis court are pretty generally known, but they are here given to jog a lazy memory.

The length and breadth dimensions are 78 x 36 ft. over all. The receiving courts extend 21 feet in each direction from the net and being bisected divide into right and left courts 13½ feet wide. The alleys measure 4½ feet in width.

If the location selected for the court is naturally wet or boggy it will be necessary to put in a foundation of from four to six inches of ordinary ashes, evenly distributed, raked, and rolled. Sprinkle with a hose to make the fine ash settle to the bottom and proceed with claying, draining, and finishing as outlined above.

The cost of construction of a court of this description under ordinary conditions, where there is no grading other than the removal of

sod is about three hundred dollars. This figure covers the necessary spading up to normal grading, piping and closing drain, chopping, furnishing clay estimated to have been purchased and carted not more than one mile at a cost of \$2.25 a load, sand, frames, and labor. If the condition of the land requires cutting down and terracing to equalize the grade, add 20 cents per cubic yard for the labor, leveling, and removal of soil incidental to this work, while if the land must be filled by carted earth, add 25 cents per cubic yard.

The prices here given, which are fair and liberal, do not include the amount which will be charged if the work is given to a contractor. He will levy an additional 30 per cent. for his supervision and profit. No figures are given for the 4 to 6 inches of ashes which will be necessary if the court be constructed on wet land. This is entirely dependent on the distance the ashes must be hauled — always with the contractor's 30 per cent. added.

## SETTING AND PRUNING A HEDGE

**I**N THE first place, if one expects best results, the ground where the hedge is to be established must be made very rich with stable manure or other equally good fertilizer. A trench should be dug two feet wide and a foot deep, the manure scattered in this and well worked in with the soil.

The most popular hedge plant is the California privet, since it succeeds in almost all parts of this country. If a single row hedge is desired set the plants eight inches apart, but if a heavier or more dense hedge is wanted set two rows about eight inches apart, the plants to stand a foot apart in the row, the plants in one row standing midway between those in the other, producing a zigzag effect. Early spring is the best time to set hedge plants, unless it is in the South, where the fall is preferred.

The pruning of a hedge must begin before the plants are set, by cutting them back to two or three inches high. This makes them spread out and become more compact at the base. Many hedges are ruined by neglecting to prune close when set. This work can never be done so well at another time, and plants set without cutting back will make a scraggly, uneven hedge with open spaces near the ground. At the end of the first year's growth the hedge should be cut back to a foot in height and all side branches shortened to within an inch or two of the main stem. After this and during the growing season the hedge may be partially shaped by pinching out the growth where it is heaviest and allowing the branches to grow where needed.

During the following winter the hedge may be pruned to the desired shape. After this the hedge should be pruned in June besides the winter pruning, as this will prevent the upright shoots from predominating, and will cause a more dense, compact, and vigorous growth in the lateral branches near the ground. H. F. GRINSTEAD.



Blue clay can usually be found in boggy soil: here it was fifteen inches below the surface muck



Chopping up the clay to facilitate its amalgamation and keying



By means of the double grader depressions in the surface are filled up and knolls cut off



# THE AMATEUR PHOTOGRAPHER

CONDUCTED BY PHIL M. RILEY

## CAMERA WORK ON A COUNTRY ESTATE

### 4. BIRD NEIGHBORS

LOVERS of birds who also use the camera will find much pleasure in photographing them these spring days if the required amount of patience can be commanded. The difficulties are many and the really successful pictures relatively few at best, but the achievements are, for these very reasons, all the greater. Not only are the subjects found in the most inaccessible places, such as tree-tops, swamps, high cliffs and dark woods, but they must for the most part be photographed unawares and with quick exposures, even though the light is dim.

Ground-glass focusing is essential so that plates are preferable; films can be used only in the form of film-packs. A practical camera to use is a 4 x 5 folding type with very long bellows extension, and provided with a long-focus lens. The latter makes it possible to secure images of fair size at some little distance away. If one can afford it, or intends to specialize in this field, a special naturalist's camera of the reflecting type, such as the Graflex or Reflex, with a focal plane shutter is advisable. In these, lenses varying in focus from about 13 to 26 inches may be used.

A focal-plane shutter can be fitted to any folding camera at moderate cost if one wishes it. An exposure of 1-100 second is quick enough for most bird subjects, and there are times when a slower exposure is possible. Several reliable between-the-lens shutters work up to 1-200 second, such as the Goerz Sector, Compound



"Three Little Eggs." The first of three stages of bird life photographically recorded by T. W. Kilmer, M. D.

Koilos, and Multi-Speed, and this is quick enough for all ordinary work. Birds move very rapidly and it is wise always to use as quick an exposure as the light and the nature of the subject will permit, depending to a certain extent upon slow tank development with weak pyrometol to bring out detail.

When using a long focus reflecting camera, with which one sees the full-size image up to the moment of exposure, one can often photograph birds in flight or sitting upon tree-boughs from a considerable number of feet away when in some convenient location. Frequently the movements of the birds may be watched through the hood and a quick exposure made the instant a good arrangement is seen.

With an ordinary lens and camera one must work within a yard or so from the subject to secure a sizeable image, and the only method is to arrange the camera, focus it upon a particular spot, retire to a distance and make the exposure from there when the bird has ventured back to the chosen spot. Thus it is that the nest is most frequently chosen, because when there are eggs or young the parents will always return to it.

Easiest of all to photograph are thrushes, warblers, sparrows, and the like, which build their nests on the ground or near it. The camera can be placed very low on its tripod within a few feet of the nest and the lens focused on the middle of the nest or a trifle beyond. Intervening grasses or twigs must be tied to one side with dark thread. Nests are usually shaded in

some manner and if young birds are inside, a thread attached to the bough or whatever furnishes the shade should be passed around some near object and thence to the point from which the exposure is to be made, so that at the proper time the bough may be bent gently to one side while the exposure is made. This avoids harm to the little birds from the heat of the sun and so ensures their active interest when the parent returns with a worm, making a good picture fairly certain.

Some arrangement must be adopted to operate the shutter from a distance, and for between-the-lens shutters one of the simplest and most effective devices is that of Mr. Chester A. Reed, a well-known ornithologist. He has added a short extension to the finger-release, securing more leverage, and fastened enough weight to the end to operate the shutter. A small strip of wood, long enough to reach from the camera to the release-lever and support it, keeps the shutter closed. To this a long thread, extending to one's place of concealment, is attached, and a gentle tug upon it removes the prop, allowing the lever to fall and release the shutter.

After closing and setting the shutter, inserting the plate-holder and withdrawing the slide, a hiding place back of a wall or bush at a distance of twenty yards or more must be chosen, there to wait silently and without movement the return of the bird. Here one's patience is often tried to the utmost, although as a rule the time will not exceed an hour and is often

(Continued on page 66)



"On the Nest"



"Hungry Mouths to Feed"



## THE NATURE CLUB

CONDUCTED BY JULIA E. ROGERS

April is the renewal of life in regions where winter puts all nature to sleep. She wakes in leaf and flower and returning birds. The impulse to lend a hand in the universal activity sets one to making garden, and then to building and mounting bird boxes. It is good to know that one whole village is making bird protection an intensive study; that the saving of game is to be the main interest of a great system of local clubs. Distinct progress in nature study marks the past year. Will each reader of this page resolve to take a hand this spring in helping on the good work in his home village or city?

### A LIVE BIRD CLUB

WHAT one man can accomplish in the work of bird protection if he throws all his energies into the enterprise is illustrated by the achievements of Baron von Berlepsch, at the Seebach station in Thuringia. When Martin Heisemann's book describing the methods and results of this man's work reached American readers, bird-lovers here asked themselves "Why can't we accomplish as much?" The answer is: "Because we have not made a thoroughgoing job of our efforts at bird protection. Americans have pattered and sentimentalized more than they have actually worked."

Up in Meriden, N. H., a typical New England village, an ardent bird-lover, Ernest H. Baynes, has laid his shoulder to the wheel. He has worked and talked his fellow-townpeople out of their normal conservative apathy, and built up a bird club, headed by the Mayor, that is doing things and getting surprising and most gratifying results. The building and mounting of bird boxes in 1911 was a spring fever that attacked everybody. School children, academy students, and villagers got into the game. Even the owners of pet cats, seeing that nesting birds were menaced by their feline neighbors, promised to defend the birds, even to the point of asking no questions should Tabby disappear.

Literature, talks, and occasional illustrated lectures on bird topics enliven the club meetings, and educate the members, old and young. Best of all education comes of personal acquaintance with bird neighbors — as they build their nests in trees, bushes, or bird boxes; as the young ones are growing up; as they feed on insect enemies of garden and field crops; as they are fed when sleet covers the ground.

The club and its friends have raised and spent enough money to build Von Berlepsch "food houses." A conscientious committee has dispensed the food regularly in cold weather. The English sparrow problem was solved by a sharp campaign with shot guns.

The culmination of this club's work is the purchase of a piece of land near the village, for a "bird sanctuary" — a dream come true by the generous gift of a non-resident member. On this tract the Von Berlepsch ideas of bird shelters will doubtless be tested, and plans best adapted to American conditions will gradually be worked out.

Mr. Baynes, as manager of the Meriden Bird Club, is largely responsible for the success set forth in the first annual report — a model of this kind of literature. The heaven is working mightily. Other bird clubs have been organized in neighboring villages to do what Meriden has done.

Not the least benefit derived from the bird club may seem incidental. It is the uniting of all the people in a common cause, the breaking down of reserve and prejudice. Bringing back the birds means bringing back the spirit of neighborliness.

If you have not a live bird club in your town follow the example of Meriden. Have one this year, and work for its success!

city is the centre. The northward flight of this familiar bird is represented by strangely jagged lines, but it is a correct graphic representation of the records as they were received.

### A NEW METHOD IN BIRD STUDY

THE American Bird-Banding Association was formed in 1909 to introduce a plan which has already brought surprising results in England. The method employed is the placing of inscribed metal bands on the legs of any birds, young or old, that can be captured unhurt, and setting them free again. If ever a banded bird should be recovered, definite knowledge of its travels is obtained.

The bands are supplied to any applicants, but it is earnestly desired that banding be done only by reliable persons, who realize the serious import of the work. The simplest question of bird migration can be solved in no way but by marking individual birds. Hence the enthusiasm with which the members of the Audubon Societies and other scientific bird students are endorsing the new method.

The best plan is to band nestlings just before they are ready to fly. The bands come flat, but are easily shaped at one end by coiling around a pencil. A pair of round-nosed pliers facilitates the work of winding the band around the left tibia, loose enough for freedom and comfort, but too snug to slip off over the foot.

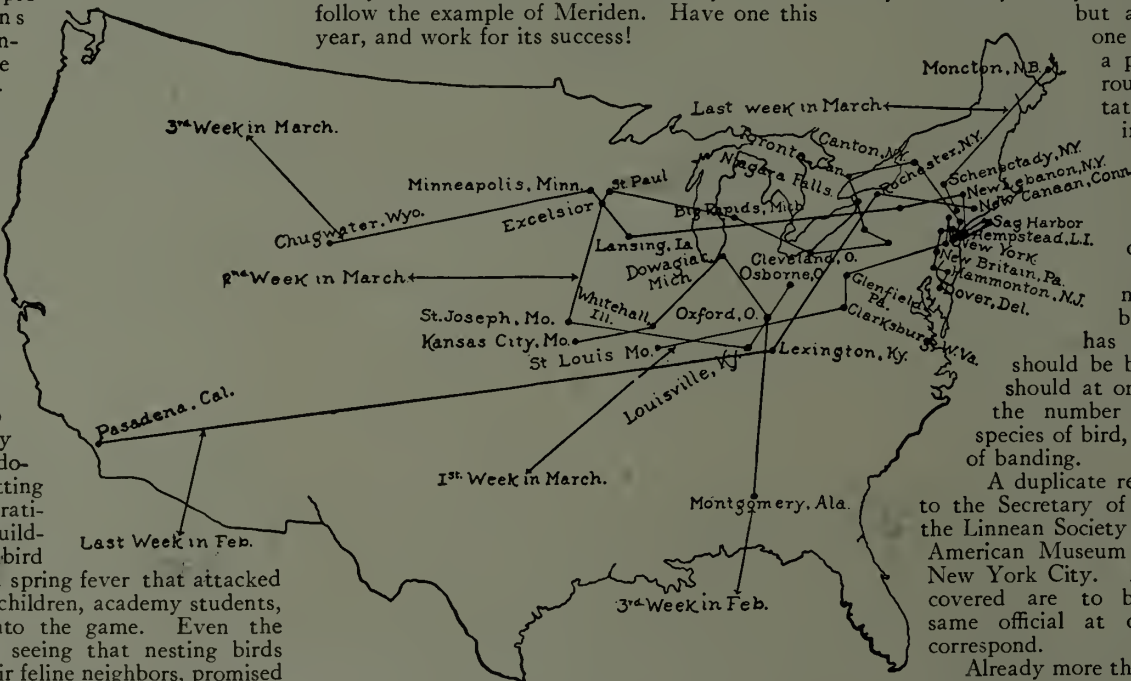
The edges must be neatly lapped. No bird that is injured or has been in captivity should be banded. The bander should at once make a record of the number on the band, the species of bird, and date and place of banding.

A duplicate record should be sent to the Secretary of the Society, care of the Linnean Society of New York, at the American Museum of Natural History, New York City. All banded birds recovered are to be reported to the same official at once, with date to correspond.

Already more than 20,000 birds have been banded in England, 3,000 of which were as small as warblers. The feeling that the band may injure the bird is giving way. The facts refute it. The birds do not seem frightened at the operation, either. It takes but a moment.

Here are a few questions that are vital to bird study, and no method of finding the answers to them has been devised until bird-banding was begun.

(Continued on page 86)



Find on this map the places and dates of the return of the robins last spring

### THE MAP OF ROBIN ARRIVALS

THE dates of the appearance of the first robin reported last spring range from February 15th to March 26th. For clearness, the dates were reduced to weeks, and the map below shows the principal places from which reports came. For a given region the principal



# STOCK and POULTRY

CONDUCTED BY DAVID PHELPS

## PROFIT FROM A SMALL DAIRY

**F**IVE years ago we almost decided to sell our two cows because they were not supplying the milk and butter for a family of five. About that time some of our neighbors began to ship milk by trolley to a near-by city. We saw that they were making money, so instead of selling, we bought three more cows and began to find out why our dairy experience had resulted in failure.

The first thing we discovered was that we hadn't been milking at regular hours, and that it was seldom that the same man milked the same cow twice in succession. As is the condition on many farms, none of the hired help had a good word for the cows, and as a result they put the milking off until everything else was done. So we began to do our own work around the cows, while the schedule of the car line took care of the time at which they had to be milked.

One kind of carelessness goes hand in hand with another, so it was not long before we found that if we were to come out on the right side of the ledger, some change would have to be made in the rations and in the manner of feeding. The cows had been stabled alongside the horses and the stalls were not constructed so that we could feed to the best advantage. Thus the first step in this line was to build a cow stable in one end of a large sheep shed, so that when the sheep were sold the shed would serve as a covered yard. The stable was much better suited for our purpose, as we made it for a cow stable and nothing else.

Formerly, the cows had been getting ear corn and fodder. Since the exclusive use of such feeds does not result in a balanced ration or in a copious flow of milk, we were compelled to make a change. Now each cow gets about eight pounds of corn, ground cob and all, before milking in the morning. After this, their mangers are filled with nice clean alfalfa hay. About noon they are turned out into the yard and given a plentiful supply of fodder. After milking they get five pounds of bran and another feed of hay. Sometimes this order is changed, the bran and corn-and-cob meal mixed, or some substitution made in order to provide a little variety.

One of these changes results in a great deal of profit. In feeding sheep, we give them this corn-and-cob meal in self-feeders. In eating this, they sort out the larger particles which are scooped up and given to the cows. As we often have several hundred lambs on feed for nearly three months, the saving in grain is a considerable amount that counts up into dollars.

Our cows are just the ordinary sort, yet we have had a great deal of satisfaction in proving

that a small dairy of grade cows can be made to show a profit without pampering them to the extent of keeping us from our regular work. One example of this is shown in a recent purchase of a very scrubby looking cow for \$25. By proper care and attention she has developed into one of the best cows in the herd. A short time ago \$60 was refused for her. This goes to show that many supposedly poor cows are branded with that name because they have never had a chance to show their true worth."

The account for the five cows for the past year from November 1st to November 1st is gratifying but not satisfactory. Since then we have made some additions to the herd and as a consequence more milk is being shipped. Feed has been higher but we are expecting a raise in milk prices.

After deducting the cost of transportation



Perfect quiet at milking time will increase the flow of milk



The herd in the yard. Not particularly handsome, but profitable nevertheless. The cow at the extreme left was bought for \$25

(a cent and a half per gallon), the milk brought eleven cents per gallon in summer and thirteen in winter. I estimated the value of the milk kept for our own use at twelve cents. Corn is charged upon the basis of forty pounds per day for 130 days; bran, twenty-five pounds per day for the same time. No account is taken of the grain from the sheep, the manure, and the use of the buildings.

EXPENSES	
Pasture, 6 mo. at \$1 per mo. per cow	\$ 30 00
Hay, 16 tons, at \$8 per ton	128 00
Corn, 52 cwt. at \$1 per cwt.	52 00
Bran, 32.5 cwt. at \$1.30 per cwt.	42 25
Corn-fodder	15 00
Interest, 5 cows at \$60, 5 per cent.	15 00
<b>Total expense</b>	<b>\$282.25</b>
RECEIPTS	
From sale of calves	\$ 57 75
Actual sale of milk	368 50
Milk for domestic use, 147 ga	17 64
<b>Total receipts</b>	<b>\$443.89</b>
<b>Profit above expenses</b>	<b>\$161.64</b>

CLYDE A. WAUGH.

## A BREEZY LETTER FROM TENNESSEE

[EDITORS' NOTE.—The following letter was recently sent to the members of the National Single-Comb Buff Orpington Club, and is published here as an illustration of the sort of enthusiasm that enters into the making of a successful poultry fancier.]

DEAR SIR:

I address you in a spirit of modesty but of perfect candor, to tell you that many solicitations have come to me to put myself forth as a candidate for the Presidency of the National S. C. Buff Orpington Club. One letter lies before me from a breeder of Orpingtons, than whom I consider none superior, in which he urges me to offer myself for the position and volunteers his support and influence. I have weighed the matter, have considered the time and labor it would require at my already busy mart and congested desk, and finally concluded that I have no right to silence these appeals; hence, I ask that you give me the honor of your franchise for the next Presidency.

For several years I have been a member—unofficered in name but full panoplied in working garments for its interests—even to the extent that I have made a personal plea through my literature urging the benefits of Club membership, and the present Club Secretary assures me that I have been of value. I think my voice is somewhat potential in Orpington circles because of my known success. My birds have touched the borders of both our seas and they roam on the hillsides and in the valleys of the states between. Traversing the waters, they have found nests in the classic wildwoods of Europe. I have a personal and patriotic pride in the widespread dominion and perfection of the S. C. Buff Orpington. I am individual also in this, as I raise no other breed. If elected, I promise my individual energy in

the promulgation and expansiveness of the Club. My faith leads me to believe that I will help many women to unite with our fraternal band, thus increasing the Club membership and adding to the production and the demand of the fancy. The South has never been represented by a Chief Executive in the Club. It is a section rich in natural resources and with energetic people. For these reasons she has been successful in poultry culture. I feel that I am a capable representative of this National Industry, having proved it with the QUALITY of my birds. I put forth no veneer. The only varnish to my work is its approach to the Ideal produced from proper thought, proper scientific mating and the sheen of gold that clothes my pens, thus demonstrating what the vigilance of woman and the green fields of God can do. With my work achieved in the past and my promises for the future as your surety, I ask you for your vote. Will you give it to me?



A glimpse of the setting-room, showing how the orange boxes served for nests

Faithfully yours,  
Mrs.

### NEW FEATURES OF AN OLD BUSINESS

MY MANY old farm acres furnish an ideal free range for raising healthy, well-developed chickens with richly colored, glossy plumage, and I arranged with an extensive importer and breeder of fine birds, to let me hatch for him some of his choicest eggs and rear the chickens with hens in the good old-fashioned way. The first of October he would choose the handsomest and pay me for them, about twice what they would bring if killed. Or if he did not wish to take them on that date, would pay profitable board for them until he did carry them away.

The question was how to procure setting boxes and coops without a large expenditure of cash. I took this problem to my Oracle who suggested using orange boxes and acetylene cans.

A glimpse into the setting room shows how the suggestion was carried out and what little



One of the acetylene-can coops in operation

labor is needed to adapt them to one's requirements. The orange boxes, turned on their sides, with a board crudely arranged at the front to slip on and off, made ideal two-compartment setting-boxes. The acetylene cans made cozy coops for the little flocks by cutting through

one rim of the can with a chisel and folding back the tin; and then cutting a slit, top and bottom, just large enough for a slat to slip through, so as to keep the hen captive when necessary, while allowing the chicks to run out at will. It makes a light, durable, water-tight, vermin-proof coop.

I found that I could obtain orange-boxes at the groceries and empty cans at the acetylene gas works in town, for the carting away.

I chose the quietest hens for mothers, giving each about sixteen chicks to care for, and put each flock into its acetylene can house, out doors in a sunny place. I shut in the hen for the first few days until she becomes wonted, then let her out to roam at will. She must be driven in a few times, but soon learns to lead in her flock at night. The ration is all they can eat of cracked corn, wheat, and bran.

This is my fifth season at the work. I now have a good pure bred flock, of my own, built up from the birds my patron did not take, and every spring I have a good demand for eggs for hatching at a fancy price.

Several women in this vicinity have taken up this same branch of chicken farming and I hope my readers may find such an excellent opportunity in their own locality. It is fascinating to raise several hundred beautiful chickens each year, not for slaughter, but for future fame.

EMMA MAYHEW WHITING.

### AN EMERGENCY BROODER

TO THE keeper of a few fowls, there frequently comes a time when a small, inexpensive brooder would be very desirable. That was my experience last spring. A Rhode Island Red hen hatched only three chicks. The rats took two of these, leaving only one lone chick of a choice strain. As I had only a few hens for laying purposes, I was anxious to get the mother hen back to laying at once. Since the weather was then quite cold (it was the middle of April), I decided to make a brooder which could be kept in our kitchen.

I took an ordinary candy box, 8 x 8 x 5 in. (see Fig. 2), perforated it with an ordinary awl and cut little windows at the sides. One end of the box was then loosened at the sides to make a convenient door. I next glued on strips of flannel so that they were suspended from the top (see Fig. 3). The cover of the candy box was then relieved of one of its sides (see Fig. 1) and was used as a bottom for the brooder, the open side being turned toward the door. The brooder was then put into a pasteboard box

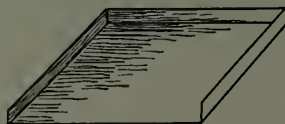


Fig. 1. Cover of box with side removed

24 x 12 x 3 in. (see Fig. 4), which served as a yard. A piece of paper was put into the bottom and on this was scattered sand and chopped hay. The feed was sprinkled over the top.

This device has a combination of advantages. It offers warmth, opportunity for exercise, and excellent ventilation. Cleanliness is also one of its virtues; for it may be easily taken apart, exposed to the sun, and renovated.

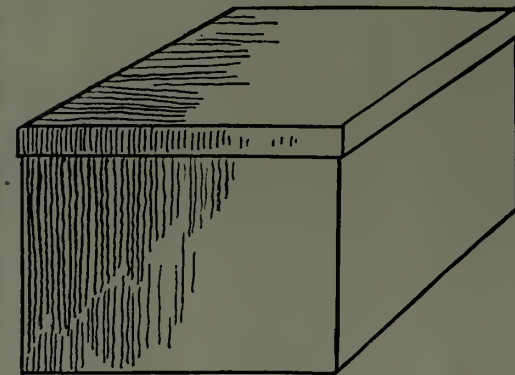


Fig. 2. The raw material—ordinary 8-inch candy box

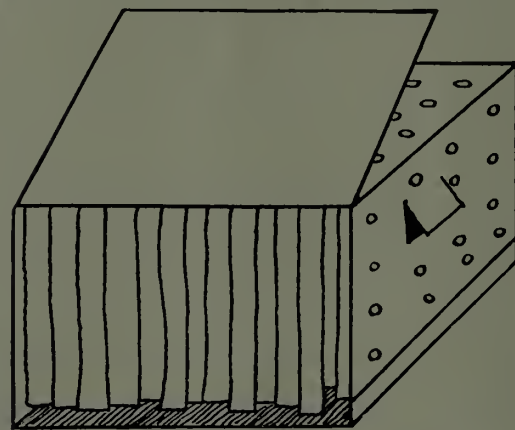


Fig. 3. Showing hover made of strips of flannel

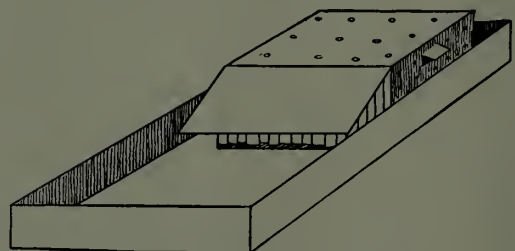


Fig. 4. The finished brooder and yard

As the chick grew we found it necessary to increase the height of the walls of the yard by putting the brooder into a box having taller sides. Two large hat boxes of the kind used in a millinery store, joined together, answered our purpose very well.

In such quarters our little lone chick, whom we called Caruso, thrived to the delight of the entire household, and developed into a fine cockerel with beautiful plumage.

The same kind of brooder was also used with success in housing a much larger number of day-old chicks a little later in the season.

J. MACE ANDRESS.

### THE VALUE OF GRIT AND CHARCOAL FOR POULTRY

IT PAYS well to keep a supply of grit, oyster shell, and charcoal before the fowls all the time. The more you can coax your laying hen to eat and assimilate, the more material will she have to turn into eggs. Her body must be nourished and material supplied for eggs, and to provide for both purposes means grinding up a great deal of food. The grit helps to do this and the oyster shell furnishes material for the egg shell. Charcoal furnishes no nourishment, but promotes digestion, and is a bowel corrective.

A. E. V.





An English House in Summer

# Country Life Abroad



On a Boat

CONDUCTED BY MADISON R. PHILLIPS

[The object of this department is to give a few suggestions which it is hoped will prove of value to the country-loving American who travels abroad. Further information as to where and how to go will be supplied as promptly as possible by the COUNTRY LIFE IN AMERICA Readers' Service.—THE EDITORS]

## ENGLAND'S NEW FOREST

IF TIME is measured by thousands of years, not by hundreds, then the curious anomaly of calling England's oldest relic the New Forest is not so curious after all. Eight centuries ago this tract of woodland was the proud possession of sport-loving William the Conqueror, and to-day the nation's forest is one of the most wonderful places in the British Isles. It still preserves many of its early characteristics, and is full of that romance which is vanishing so rapidly before the relentless march of progress.

One hundred and forty-four square miles of forest in England's soil is a marvel. While there is scarcely a square mile elsewhere that is not under cultivation or spread with village, town or city, Nature still as of old has her throne in the recesses of the New Forest. Time leaves it practically untouched, and the glades through which Norman knights rode their hunting chargers are the same to-day as then. Mighty oaks which as saplings heard the bay of wolf hounds and the whistle of the gray goose shaft, rear their heads in the silence and sigh for the old days, trembling for the time when the axe of the forester will chop them limb from limb and drag their proud forms in the undergrowth.

England undoubtedly owes this venerable relic to the oppression of the Norman, and it stood to the Saxon as a symbol of his bondage. The king found this tract of woodland, and it seemed good to him to make a hunting preserve of it.

Forest laws were framed with fearful penalties attached to their breach, and the royal game preserve was forbidden to the subject race. No one might sell timber from his own wood, which might reduce the number of trees; and only fallen wood might be taken as firewood. No one might drive forth his cattle to graze until the king's cattle had their fill. When spring came none might graze cattle at all. To kill a deer was death, while the slaughter of less noble animals meant blinding or the loss of a hand. To pursue the trade of a tanner was to arouse suspicion that your skins were foully come by. All dogs must have a claw cut so as to cripple them for hunting.

The king alone could

hunt. He was the first sportsman in the land and his coming imported the idea, hitherto alien to the English, of sport for sport's sake alone. It was no question of securing tomorrow's meal—but the lust of killing, and to the Saxon the idea of such a thing was almost inconceivable. Still more difficult of understanding to them was the fact that the forest rangers might hang them to the nearest tree for following out the dictates of their own appetites. Many a lesson had to be taught them, before the Norman monarch impressed upon them that he was the sole person entitled to hunt and kill deer in the kingdom, though it was his royal pleasure to grant the right of killing to his vassals and friends at such times and in such places as he deemed fit. To this day at Lyndhurst there stands Verderer's Hall in which the wretched offenders were driven to hear sentence. Offences against the present forest laws are still tried there.

At Lyndhurst, the capital of the forest, is also the lodge of the Deputy Surveyor of the forest, a crown official whose duty it is to regulate the planting, cutting and selling of timber, and the permits to cut fuel and turf to those who have forest rights. He also undertakes the general management of the forest, employing gamekeepers, woodsmen, charcoal burners, etc. The forest right of the commoner or holder of land in the forest is attached to the hut, cottage or mansion occupied by him, but more particularly to its hearth. This is adhered to so religiously

that should the commoner desire to change his place of living or to rebuild his house, the old hearth is left standing, and it is no unusual sight to come across a stone hearth with its chimney standing solitary in the middle of a field or cabbage patch. The owner thereby secures his rights.

Lyndhurst itself contains many fine mansions, but they are almost lost in the woods, for the forest runs right up to their walls. A few hundred yards off is Swan Green, one of the most beautiful natural lawns in the forest, though sadly decreased in size, where the show of forest ponies is held each April, and where in olden days the badger was baited to make a rustic holiday. Magnificent woods stretch behind for miles, while the road to the station is bounded on one side by heaths, and on the other by splendid groves of oak, beech, alder and birch.

Farther east lies the estate of Beaulieu which, though set about by the forest, has since the days of King John, of Magna Charta memory, been exempt from submission to the forest laws. It is here that Sir Conan Doyle has laid the opening scenes of his novel "The White Company." Now of the original magnificent building but little remains, a few crumbling walls and arches. The mansion of Lord Montagu has incorporated in it, however, the remains of the gate house and a few of the rooms.

The gypsies of the New Forest are a fairly numerous body of sturdy vagrants, dwelling in tents and caravans, leading a tolerably happy and unrestrained existence, and paying tax to no one. There is, alas, but little of the romance of the gypsy life left, and their dress is too often that of the tramp. Their number varies with the season of the year, and the fairs held at intervals always draw them together. They eke out their existence in various ways, making basketwork articles, selling flowers, plaiting grass mats, acting as scissor-grinders or tin-smiths, or telling fortunes to trusting servant maids and hostlers, or the picnickers who descend upon the forest in summer time. In summer, also, many of them wander afield and earn a living in surrounding counties in haymaking, fruit picking or hop gathering. The law treats those wanderers leniently, though it does require that vans or



It is a rare experience for American eyes to see vast fields of narcissus in bloom and growing wild as it does at Montreux, on Lake Geneva, between Switzerland and France

tents do not stay more than 24 hours in one place in one county, but this is easy for the Romany to get around. In one part of the forest lies a road dividing the counties of Wiltshire and Hampshire, and it is easy for the gipsy to transfer his camp over the road daily and thus continue his undisturbed life.

Time and the chase have sadly thinned the deer in the forest, but still there are many, both red and roe, and there is no more picturesque sight nor one in greater harmony with those sylvan glades than a meet of the deerhounds.

If deer are few, however, there are other creatures. Herds of pigs, as in the days of Gurth

the Swineherd, still root for beechnuts, while there are herds of forest ponies, wild unkempt little horses. They are all of one size, for the pasturage is not sufficient to maintain a large horse. They should not really be called ponies, for they are really horses in miniature and their lineage is undoubtedly good.

Every April a show of the ponies is held at Lyndhurst. A good one can be had for \$40 and a wonderful bargain he is, smart and nimble. One of the rights of the commoner is that of turning loose his pony or herd of ponies, and each owner clips the tail of his property in a certain fashion of rough ridges, so as to distinguish it.

Cattle, too, are permitted to be grazed by commoners as a right, by others on payment of a fee, and they keep the grass short and firm and prevent the undergrowth getting too thick.

Deerhunting does not monopolize the sporting tendencies of the people around, for the fox gives the hounds many a run, and now and again the otter hounds follow the river Avon. The shooting is not much good, but there is something exhilarating in the forest shoot which offers full compensation for a poor bag. A license for one year costs \$100, while if you desire to take a friend on your expeditions, it will cost \$50 a year more.

*(Continued on page 80)*



The New Forest is a supremely beautiful tract of woodland over one hundred square miles in extent, established by William the Conqueror



There are many splendid mansions in the New Forest but of them Beaulieu, the residence of Lord Montague, is among the best



Sunlight and shadow playing among the grand old trees and picturesque houses offer ever-changing and beautiful pictures for the delectation of the camerist



About most of the quaint old thatch-roof cottages are gardens of old-fashioned flowers and many vine-clad rustic arbors over the paths



The New Forest has long been noted for the beauty of its grand old beeches. There are several kinds of trees in this forest, but these predominate



Verderer's Hall, King's House, Lyndhurst, is one of the oldest courts in the country. Forest matters are dealt with, including commoner's rights and forest laws



## A BUNGALOW THAT WAS A BOAT-HOUSE

By CAROLYN M. OGILVIE

**I**N PASSING along Arlington Avenue, in the city of Des Moines, Ia., one comes to a large space with fine trees, shrubbery, and winding walks, but no house in sight. On either side are handsome residences. But if you pursue the pathway into the grounds, after a bit you will see that it leads to a long winding flight of steps cut into the hillside. At the bottom of the hill, or bank, is the Des Moines River, and there among the splendid forest trees, just at the water's edge, is a house. This is the home of Mr. and Mrs. Ralph Orwig, who own the lovely grounds on the avenue.

The Orwigs were fond of boating, and so one day Mr. Orwig cut down some saplings, ordered some lumber, and built a boat-house. This house grew into larger proportions than at first intended. A sleeping-room was added and occa-

sionally a holiday was enjoyed there. This was so great a pleasure that another room was added, a kitchen, and sometimes whole weeks were spent there.

The second summer, Mr. Orwig took a carpenter down and the really delightful bungalow shown in the picture was built of logs, saplings, and hard pine lumber. A hard coal furnace in the cellar under the front of the house furnishes the heat. The kitchen is fitted out with electric apparatus, and the whole place is lighted with electricity. The wide and commodious porches are delightful. One is used as a dining-room on all fair days, and one is used for a sleeping-room. Mrs. Orwig always entertains on her porches.

Inside there is a large living-room, a good sized kitchen, a dining-room, one large bedroom upstairs, and a bathroom. The house has

ceiled instead of plastered walls, being covered overhead with burlap. A good sized boat-house is built under the side porch.

The entire cost of the house was \$1,500. The owners are so pleased with it that they live there summer and winter and have delayed erecting a dwelling on their grounds at the top of the bank. Ferns and vines and wood flowers abound all summer. The water laps the shore constantly. The great forest trees whisper and sigh, and the world seems far away in this sylvan spot. But in reality the electric cars are three minutes off. Mrs. Orwig has her telephone, and her motor car is at the top of the bank in the garage; the butcher and grocer wait on her daily, and she has all the conveniences of the city with the solitude, fresh air, and peaceful quiet of the country.



The bungalow that started life as a boat-house. It is built largely of saplings and logs, and cost only \$1,500



Early Italian paintings against rough, blue-plastered walls, and carved oak furniture help to give the living-room the atmosphere of the Middle Ages



The great stone mantel in the living-room carries out the medieval idea. It is a modified copy of one at the Ducal palace, Urbino

## A MID-WESTERN ADAPTATION OF THE MEDIEVAL

By MARCELLA ENDICOTT

Photographs by Miss REINEKE

IT IS easy to build in a locality where there is some architectural tradition to hold to, but to build in the Middle West—crude, virile, ignorant of architectural tradition—what is there definite to grasp but the recollection of the prairie wagon and the wigwam? The most suitable is, therefore, in a way the most simple and unsuggestive, with colors that blend to the hills and trees and rocks. This is the success of "Branches," the residence of Ralph Erskine Goodlett, Esq., of Kansas City, Mo. In it the architect, Louis Curtiss, has gained reserve without the ceremony of direct style, and informality without the indiscriminateness of the bungalow.

"Branches" is a long, native stone house, built to the slope of the ground. The ground before the house runs in a terrace to the street, and in spring this front yard is alive with yellow tulips, crocuses, and lilacs. The back yard is given to stable, formal garden with fountain in its centre, and behind the definite beds, a tangle of hardy phlox, hollyhocks, golden glow, lilies, and sweet-smelling herbs. All about the house the forest trees thrill with song and the squirrels leap among the boughs with the unconcern of proprietors. Although the house is toward the suburbs it is not precisely a country property, so this delightful and genuine taste of the forest is quite unique.

As for practical features—sleeping porch, concealed radiators, anti-burglar lighting system, glass dressing-cases in the baths, lights and windows in closets—they

are not wanting. On the south is a large piazza with steps leading to the garden, and on the

west a Venetian balcony of wrought iron buried in roses in June.



The alcove in the dining-room, which serves as a breakfast room

At the front entrance one steps into an Elizabethan vestibule, paneled and arched in dark oak; a heavy antique door lined with a mirror leads to a coat closet, and the yellow plaster walls, brick floor, and leaded casements prepare one to swing a great leaded door and find one's self in the picturesque living-room. This room, which is 20 x 30 ft., is distinctly medieval in tone, with its deep tapestried case, great stone mantel, and heavily beamed ceiling of oak. Cloistered stairs descend in this room, and at one end is an elliptical arch where a divan rests on a Gothic dais.

In the dining-room, the walls are paneled in white enamel and tinted ecru. Here one may sit at table and get the early morning sun and the southern breezes.

One end of the dining-room is a raised platform, two steps above the large room and separated from it by a white panel balustrade, which is used as the breakfast room.

There is an idea of air and space, and a happy depth of vista from the arch through the white dining-room to the piazza, and again, into the welcome harmony of the trees. When it was fully explained to me how the side stairs rose out of the vestibule, thus allowing guests to ascend unseen and descend to the living-room for formal greeting, how the walls were deadened by air chambers, how the casement windows did not leak, I confessed that for once the practical and the picturesque were duly married.



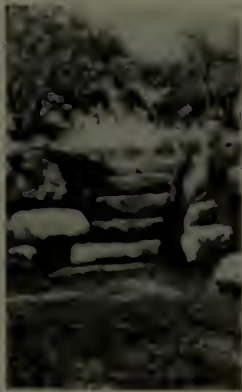
"Branches" is a native stone house, of simple but attractive exterior, built to the slope of the ground



The Wilkinson house from opposite corners. The effect of an old-fashioned farmhouse that has been added to at various times is cleverly simulated

## THE EVOLUTION OF A HOME

By R. A. STURDEVANT



Stone steps leading to the rock garden

ON THE east shore of Skaneateles Lake, about two miles from the village of that name, and twenty from Syracuse, N. Y., is a country home of the old-fashioned farmhouse type, which from its appearance might have sheltered generations of country squires, but which in reality has seen but four summers. It is the home of Mr. John Wilkinson, whose desire was to produce

the effect of an old-fashioned farmhouse that had been added to at various times. The exterior of the house is of clapboards, painted white, and green blinds are at the windows. The roof shingles were not stained and are now a beautiful silvery gray, produced naturally by the weather.

As shown by the plans, the first story contains a large living-room, two bedrooms and bath, pantries, kitchen, and maids' sitting-room. The large living-room serves both as living-room and dining-room. The stairway to the second story leads from one end of the living-room. The two bedrooms of the first story are raised one step above the level of the living-room — at the same level of the first step of stairs. The stair treads, newels, and rail

are mahogany, while all the other woodwork of the room as well as the woodwork of the rest of the house is painted white.

At one end of the living-room is a very large fireplace; the brickwork is red, with wide white joints; the mantel is of wood, of proportions in keeping with the size of the room. Over the door heads of the two outside doors (which are Dutch doors) are nicely profiled shelves, on which are rare pieces of old china. One corner of the living-room has a built-in cupboard or niche, with a fine shell-hood; this also contains some very rare old china and glass. With its old-time pieces of furniture, most of which are heirlooms of rare and beautiful design, and appropriate floor coverings and



The rock garden which supplants the tenant house



The dining-room end of the living-room, showing the built-in china closet



The living-room end of the apartment, from which the stairs ascend

window draperies, this room is a very livable and interesting place.

The large covered porch at the front of the house faces the west, but is so deep that there is always a cool and shady spot to be found on it. The end of the porch near the bedroom has a raised floor; and that end of the porch has glazed doors. The raised floor is used as a sleeping porch, as the glazed doors keep off the storms, which generally come from the south-west.

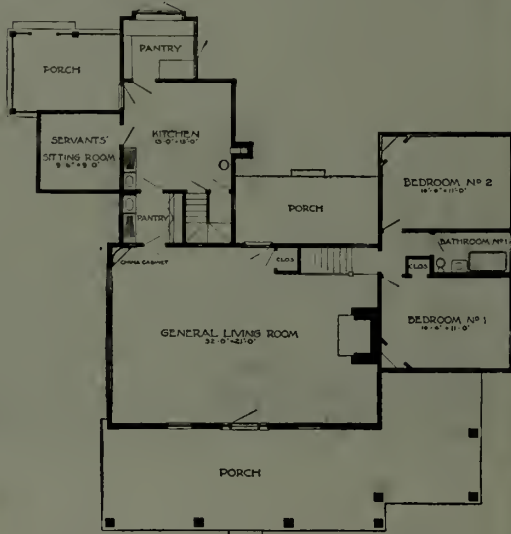
The service end of the house, with its pantries, porches, and maids' sitting-room, was made with as attractive an exterior as any other part of the house, as the entrance approach is from the rear, since the house faces the lake. Back stairs lead from the kitchen to the maids' quarters in the second story. The cellar is under only a part of the house, and although the ground is full of springs, the cellar has been waterproofed so that it is perfectly dry.

The second story contains several bedrooms, two bathrooms, and numerous closets. Since the house was erected a large sleeping-porch has been built adjoining the nursery and opening from it. One side of this porch is enclosed by sliding sash which can be closed in case of storms; the two other sides are provided with heavy

awning cloth curtains, so equipped with rollers and guides that they can be pulled down very easily should the weather make this necessary.

All the floors of the house are comb-grain hard pine stained, varnished, and waxed.

While the house itself is delightful and its simulation of the old-time atmosphere well-



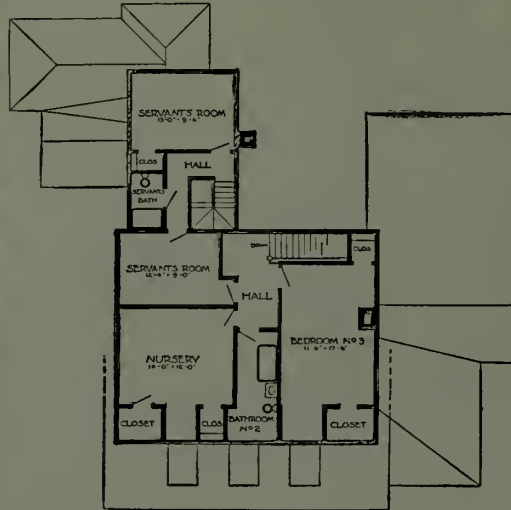
The first floor is arranged on the old-fashioned plan of having bedrooms on the ground floor



"Tall hollyhocks hug close to the house"



One of the entrance doors in summer dress



Second floor plan, showing roofs of single-story wings

nigh perfect, the real and appealing charm of the place lies in its garden. The four years here have certainly produced wonderful results, as the accompanying pictures show. The landscape work is the result of Mrs. Wilkinson's own thought and supervision, and shows what can be accomplished by one who really loves nature and gives time, thought, and energy

to the object in view. Tall hollyhocks hug close to the house on the garden side—the south—and a few scattered ones stand guard at each end of the rustic pergola which overlooks the terraces of bloom. Walks of gray gravel, brought from the lake shore, divide the terraces and lead from the pergola to the rose garden below. A favorite part of the garden is the pathway through the pergola, where faint odors of old-fashioned sweet herbs—rosemary, thyme, sweet fennel, savory—tucked away in eight little beds, carry one back to the grandmother's gardens of long ago.

A country place is never complete without a rock and water garden, and the need in this case was met by accident. Last autumn the tenant house was moved across the road to the farm proper and left a most inviting hole in the ground which suggested many possibilities, and this spring a charming little rock garden found its home there.

Stones from the place and from a ravine ten miles away have been so placed around the pool thus made and on the banks, that they seem to have always been there. Fine sprays of water from hidden pipes keep the ferns and rock plants moist and green and give a touch of life and interest to the garden.



The house and garden. Walks of gray gravel from the lake shore divide the terraces



Looking through the pergola to the birds' drinking fountain at the farther end

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*Illustrated Booklet regarding the treatments mailed on request*

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## THE AMATEUR PHOTOGRAPHER

(Continued from page 55)

much less if preparations were made with little disturbance. A field glass is of assistance and makes the wait less tedious, as does a little pocket volume to read.

Conditions are much the same when the camera must be placed in a tree, except for the difficulty of getting the camera into the right position. This is best done by tying the tripod to branches, adjusting the length of the legs as necessary. Entirely different methods must be adopted for sea-birds which nest among the cliffs, as well as the more unusual sorts of birds in the tropics, but this brief survey cannot include them, interesting as they are.

Another famous ornithologist, Mr. Frank M. Chapman, pursues a very different method than does Mr. Reed. Mr. Chapman sets up a portable tent of his own design in which he himself as well as his camera is concealed. By this means he can watch every movement of the birds when almost within reach of his hand and make as many exposures as desirable without frightening them by changing plate-holders. It seems almost incredible that birds will come back to their nests when a tent is so near, but they will, nevertheless, if the tent is set up quickly and quietly. Mr. Chapman's tent is nothing but a fairly large umbrella with an extension handle about two yards in length and a cover to lay over it and hang down to the ground. Dark green is best as a rule, except at the seashore, where a light brown is preferable. One covering can easily be made reversible for both colors. The lens of the camera protrudes through the slit in the covering which gives entrance to the tent.

### DOUBLE RE-DEVELOPMENT OF GASLIGHT PAPERS

**M**ANY prefer darker browns or less yellow tones than are obtained by ordinary re-development, and for those a method of double re-development is preferable, as it gives a variety of tones ranging from sepia through brown and chocolate to rich warm black at will. The process consists in making a good black and white print and bleaching it as in ordinary re-development, after which it is placed in a weak developer to control the tones.

#### CONTROL DEVELOPER

Regular Metol-Hydroquinone developer - - - - 2 ozs.  
Water - - - - - 6 ozs.  
Potassium bromide (saturated solution) - - - 5 drops

In this solution the image will build up slowly and the tone will depend upon the duration of the treatment—the longer, the colder the tone. Rock the tray to ensure even action. After the proper length of time rinse the print in the following:

#### STOP BATH

Water - - - - - 8 ozs.  
Acetic Acid, No. 8 - - - - - ¼ oz.

Now wash the print in running water for fifteen minutes and then treat in the re-developer as described above.

The action of both the bleaching-solution and the re-developer is complete, and does not require special watching, but the duration of treatment in the control developer determines the tone of the finished print. Exact times for definite tones cannot be given as they vary with different brands of paper, but a few trials will yield a fund of information. It is a good plan to treat narrow test-strips to be numbered and kept as samples beginning with twenty seconds' immersion and increasing the time twenty seconds for each one successively up to several minutes. This shows the range of tones for any brand of paper, and when one once becomes familiar with the appearance of the partially re-developed image for any desired tone the process is mastered.

#### STANDARDS OF WEIGHT

**I**N MAKING up photographic formulæ it should be remembered that the avoirdupois ounce of 437½ grains is used for both selling and compounding rather than the apothecaries' ounce of 480 grains. To avoid confusion most formulæ are now written in terms of grains or ounces, drams and scruples being omitted.

# The Stearns-Knight Car

## 10,000 Cars Are Now Knight-Motored Cars

And these 10,000 cars are the greatest cars in the world.

Daimler controls the Knight-type for England. That is Britain's foremost car.

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Thus the master engines of the world have been discarded for this Knight-type motor.

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This type of engine holds the world's records on points that count for most.

The most famous engineers have adopted it—and for the cars which have always led.

These facts should be considered now by men who buy high-grade cars.

The Knight-type in America means the Stearns-Knight. We were first to adopt it.

We spent two years in adapting it to American requirements.

Mr. Knight himself says that never were his principles better worked out than in the Stearns-Knight car.

And hundreds of owners have proved it.

## Every Great Maker Sees the Writing on the Wall

In every great shop inventors are working to do what the Knight-type does.

Some are seeking sleeve valves, which avoid the Knight patents. Some hope for rotary valves.

Every great engineer knows that poppet-valve motors now face the setting sun.

They are noisy and slow and leaky. They depend on springs. They require frequent grinding.

The cams grow noisy when they

wear. The timing gears are never silent.

When carbon accumulates so the valves don't shut, a large part of the power is wasted.

Makers know these shortcomings. Their only question is, how to end them.

The Knight-type, we believe, forms the final solution. And the leading engineers agree with us.

It forms the best motor yet invented—that is sure.

## Luxury of Motion

The Stearns-Knight means the luxury of motion.

It means to glide on the road. As one user says, "It is like sliding on runners."

No valves springing shut—no valves to grind. No cams, no timing gears. Just silent, steady power.

It means immense flexibility—jumping quickly and smoothly from slow to high speed.

It means an engine which grows

quieter and better with every month of use.

On a hill it means that persistent power for which electric motors are famous.

It means no waste of power. We guarantee an excess of at least 50% over the rated power of an equal-size poppet-valve engine.

You will abandon poppet valves—just as we did—when you once learn the luxury of sleeve-valve power.

which won those places had to be discarded.

All the prestige of famous cars was staked on a new-type motor.

That was so with the others, and so with the Stearns. No engine in America gained greater renown than the Stearns in its 16 years.

One can't suppose that this change was made hastily, or that it lacked incentive.

We followed three years after Daimler. And two of those years were spent testing this engine out.

Consider these facts when somebody tells you that poppet valves are going to continue.

## Makers Overtaxed Sales Doubled in a Month

The demand for Knight-type motors has taxed the capacity of the greatest European factories.

Over 10,000 cars of the highest grade are already equipped with this engine.

The first announcement of the Stearns-Knight fairly overwhelmed us with orders. And from that time on our sales have doubled over any record for our 16 years.

In November of last year we had to lease a new factory to keep up with winter orders.

Hundreds of these cars in the hands of owners have now had months of usage. And the letters which come to us form the highest tribute ever paid an American car.

You men who this year want this new-type car should get your orders in.

## An American Did It

This Knight-type motor, which has captured Europe, was invented by a man from Chicago.

And the machinery employed by foreign makers to build it is imported by them from America.

All the early advances in motor

construction came to us from abroad, as you know.

It is pleasant to think that this sleeve-valve motor—the most important improvement of the past decade—is America's gift to Europe.

## Like Steam Valves

These sliding-sleeve valves give the gasoline engine that smoothness familiar in steam engine valves.

For 40 years this has been the ideal of gasoline engine builders.

Poppet valves are knocked open

and then sprung shut—hundreds of times per minute.

Knight-type valves slide in a film of oil. Thus we get as close as gas engines ever can to the smooth silence of steam.

## The Coming Type

The Knight-type engine is the coming type.

Poppet valves are abandoned by the world's leading makers, and the rest must soon discard them.

Men may wait for developments. They may seek other methods. But they know, as we know, that the day is ending for the poppet valve.

Look into this matter when you buy a car. Ask yourself these questions:

Shall I buy an engine of the type discarded by Mercedes, Panhard, Daimler and others?

Shall I be among the first with the new type, or among the last with the old?

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We issue books dealing with every phase of this subject.

They deal with the records of Knight-types in Europe, and their records here.

They point out and picture all the reasons for Knight-type domination.

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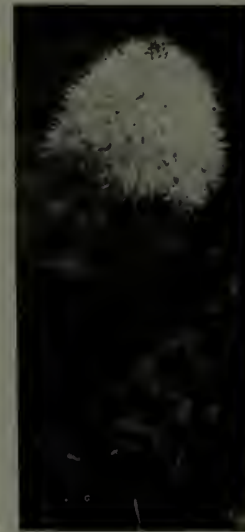


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### A FLOWER GARDEN IN THE SKY



Basket grass lily

**T**HE man who teaches us how to transplant the wonderful wild flowers of Mt. Rainier and make them grow in the garden, will be one of the saints of American horticulture. Thus far it has not, to our knowledge, been accomplished. If any of our readers have succeeded in the attempt, even on a very small scale, we would like to learn the particulars.

For on Mt. Rainier, at the edge of glaciers, or springing up at the heels of the retreating snow, grow in profusion a score of different wild flowers which we of the valley and plain know nothing of. Not even the Pyrenees or the Swiss Alps can surpass Mt. Rainier in the beauty and variety of its natural flora. And some day, we trust, these will be added to our gardens.

Meanwhile, we are fortunate in being able to reproduce Mr. Barnes's wonderful photographs (see page 38), and to catalogue the chief of these species.

John Muir writes as follows in "Our National Parks:"

"Of all the fire-mountains which, like beacons, once blazed along the Pacific Coast, Mount Rainier is the noblest in form. Its massive white dome rises out of its forests, like a world by itself. Above the forests there is a zone of the loveliest flowers, fifty miles in circuit and nearly two miles wide, so closely planted and luxuriant that it seems as if Nature, glad to make an open space between woods so dense and ice so deep, were economizing the precious ground, and trying to see how many of her darlings she can get together in one mountain wreath—daisies, anemones, columbines, erythroniums, larkspurs, etc., among which we wade knee-deep and waist-deep, the bright corollas in myriads touching petal to petal. Altogether this is the richest subalpine garden I ever found, a perfect floral elysium."

Probably the most thorough study that has been made of these flowers is the work of Prof. J. B. Flett, of Tacoma. In a book published in



One of the forms of Alpine anemone, or wind flower

1910 by John H. Williams, Tacoma, Wash., entitled "The Mountain That Was God," appears a chapter by Professor Flett on "The Flora of the Mountain Slopes." We wish we had space to reprint this chapter in full. The following facts about the various species have been culled from Professor Flett's article, and from facts supplied by Mr. A. H. Barnes, of Parkland, Wash., who became very familiar with them in the course of his photographic work.

The most noticeable and abundant flower on all slopes is the avalanche lily (*Erythronium*

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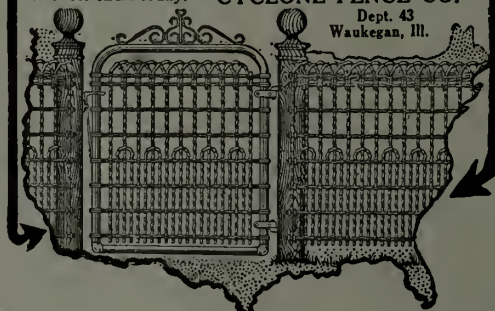
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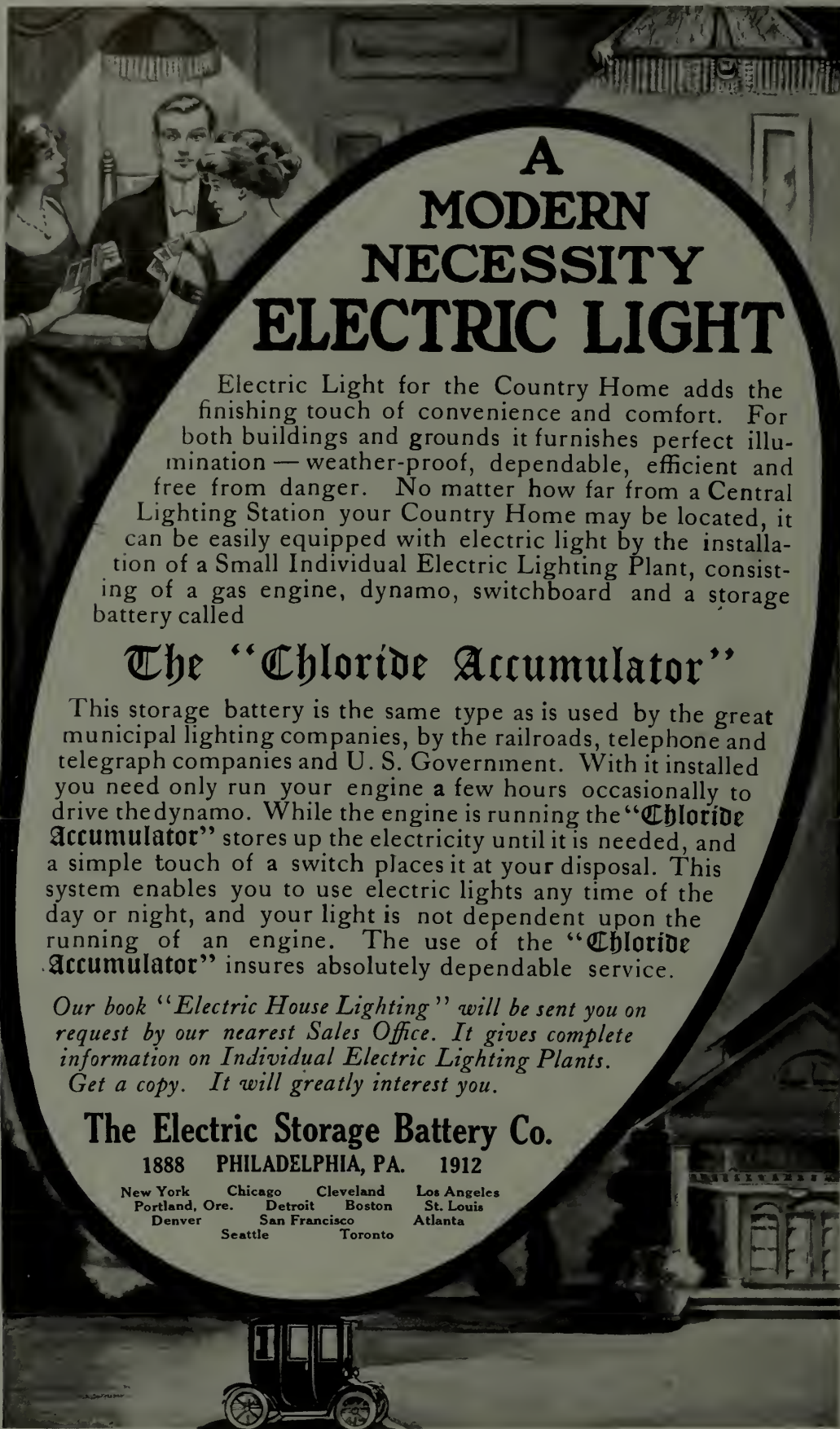
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### The Electric Storage Battery Co.

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*montanum*), sometimes called deertongue or addertongue. It is one of the earliest flowers to bloom, sometimes pushing its way up through the still unmelted snow, and it grows at an altitude of 4,000 to 6,000 feet. The flower is waxy, almost pure white, sometimes creamy, and with a delicate fragrance. There is also a less common yellow species. In thick patches it bears from one to three blossoms on a stem; where less crowded it may bear from six to nine.

Another early bloomer which defies the snow is the yellow alpine buttercup. It resembles our meadow buttercup, but is not closely related. Its perfectly formed blossoms grow in scattered golden patches on the alpine slopes and flats at an altitude of about 5,000 feet.

The Western anemone is a little more deliberate, but is often found near the snow. The petals are nearly white, taking on a purple tint at the lower ends as they mature, so that the effect of a mass of them is lavender. The centres are yellow. Later in the season the seed pods, covered with a thick, brownish-gray plume, are almost as conspicuous as the flowers.

Following these harbingers of the upland spring come a great variety of plants of many colors. Of the mountain asters (*Erigeran salsuginasus*),



Valerian, often miscalled "the mountain heliotrope," is abundant and very fragrant

sometimes miscalled daisies, there are several species. The light pinkish-lavender blossoms, darkening to purple, with yellow centres, are borne on sturdy stems eight or ten inches long. Sometimes the flowers grow two inches across; they are often an inch and a half. A shorter-stemmed species grows on the flats and mountain meadows.

The lupines grow both in the lower meadows and also above timber line. Their purplish-blue flowers, in long racemes, are very conspicuous on the grassy slopes. Between timber line and 8,500 feet, Lyall's lupine grows in dense silk mats, with dark purple flowers — the most beautiful plant in that zone.

Four kinds of heather are found on the mountain — red heather, yellow heather, and two kinds of white heather.

The red heather (*Phlodoce empetrifomis*) is the largest and most abundant. It grows at a lower altitude than the others and is sometimes wrongly called Scotch heather, though the white heather more nearly resembles the Scottish variety. During a comparatively short season of bloom it produces a wealth of foliage and clusters of bell-shaped flowers of a light crimson tint. It flourishes from 4,500 to 6,000 feet altitude.

The yellow heather and one variety of white heather grow about the timber line. The other white variety (*Cassiope mertensiana*) grows with the red heather, but extends up to 7,000 feet. The delicate, short-lived flowers, growing at the ends of the fine, evergreen foliage, have waxy white balls, small red sepals, and fine reddish stems.

The mountain rhododendron or snow brush (*Rhododendron albiflorum*), like others of its species, seeks the shelter of the woods. Its

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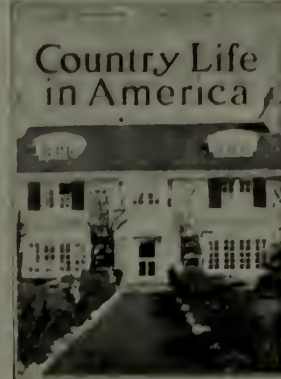
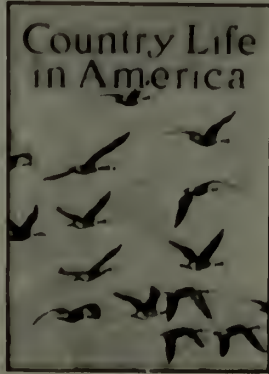
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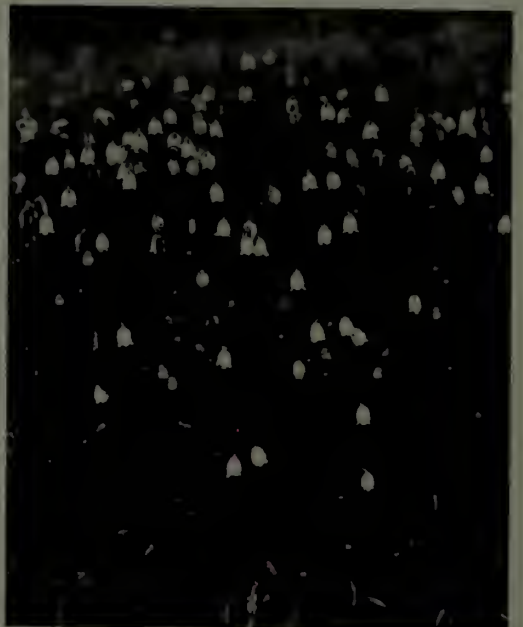
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creamy or yellowish-white, azalea-like flowers grow on a sturdy evergreen shrub that would be a great addition to our cultivated flora.

"The figwort family," writes Professor Flett, "has many and curious representatives. The rose-purple monkey-flower is very common and conspicuous in the lower meadows, along the streams. It is nearly always accompanied by the yellow fireweed. Higher up, large meadow areas are arrayed in bright yellow by the alpine monkey-flower. Above timber line, two pent-stemons, with matted leaves and short stems with brilliant purple and red flowers, cover large rocky patches, mixed here and there with lavender beds of the alpine phlox; while the amber rays of the golden aster, scattered through these variegated beds, lend their charm to the rocky ridges. The Indian paint-brush, the speedwell, the elephant's trunk, and the pigeon bills are all well-known members of the large figwort family which does much to embellish the mountain meadows. The valerian, often wrongly called 'mountain heliotrope,' is very common on the grassy slopes. Its odor can often be detected before it is seen. The rosy spirea, the mountain ash, and the wild currant, are three common shrubs in this area. There are also numerous small herbaceous plants of the saxifrage family, some forming dense mats to the exclusion of other plants. The mertensias, polemoniums, and shooting stars add much to the purple and blue coloring."

The Indian pink or painted cup (*Castilleja oreopala*) is a conspicuous flower, the effect of which is best at a little distance. There are three or four species in the mountains, the most abundant being a deep magenta; there are also



The delicate, short-lived white heather grows up to an altitude of 7,000 feet

pink ones, an occasional scarlet blossom, and a few nearly white.

The valerian grows here and there in scattered luxuriance. The heads, bearing many fragrant flowers, grow on stems two or three feet long.

The polemonium grows in brushy places at about 5,000 feet elevation. It is somewhat scarce and blooms in August. The small, faintly fragrant flowers, about five eighths of an inch in diameter, grow in clusters of pale blue, fading out as they grow older. The centre is yellowish, sepals and stems green, and foliage similar to that of the mountain ash.

The mertensia (*Mertensia Siberica*) is another of the rarer species—a tassel bell-flower of delicate light blue, with bluish-green foliage.

The alpine phlox, also scarce and of short season, grows where snow melts early from the steep slopes. Its scanty foliage, short stems, and small flowers of lavender and white, are not conspicuous.

The yellow cowslip (*Caltha leptosepala*) is occasionally found in marshy places.

The gentian (*Gentiana calycaso*) blooms in midsummer and early fall. It sleeps late, opening in full only during the light and heat of the day. It is a delicately beautiful flower, cobalt at the tips of the petals, shading to a deeper blue toward the stem which is green or a dark wine color.

The bluebell—the true Scotch flower—is

## RUSTIC HICKORY FURNITURE CO.

The furnishings shown in this beautiful summer scene are all of Rustic Hickory. While particularly attractive Rustic Hickory Furniture is also the most comfortable and durable. The frame work is of selected hickory saplings—no paint or varnish—simply made smooth to bring out the delicate shadings of the natural bark. The seats and backs are of hand woven strips of flexible inner hickory bark, thus insuring greatest strength and comfort. Rustic Hickory is the ideal Furniture for Summer Homes.

Country Clubs, Bungalows, Cottages, Porches, Lawns, Studios and all places where comfort combined with simplicity is desired. Made in over one hundred styles of Chairs, Rockers, Settees, Tables, Swings, Couches, Tabourets, Lawn Seats, Sideboards, Rustic Benches, Hanging Baskets, Lawn Vases, Window Boxes, Pergolas, Summer Houses, Fences, and a variety of other pieces. So reasonable in price most anyone can afford it. If you dealer cannot supply you write to us. Catalogue mailed free.

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The right shade does it. The shade which gives you the most and the best light from your current is

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The picture above shows some *Alba* shades from our new catalogue just out. It is the handsomest and most useful catalogue of globes and shades ever printed.

The beautiful *Iridile*—exquisite iridescent glass—and other shades are shown in colors.



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# Cut Your Coal Bill in Half THE UNDERFEED *Does It*

THE EFFICIENCY, as well as economy, of UNDERFEED heaters, was emphasized the past winter—the coldest in many years. UNDERFEED users and dealers everywhere so testify.



The Underfeed booklet, sent free on request, clearly explains the Underfeed way of producing clean, even, adequate heat, regardless of weather conditions, at a saving of 1/2 to 2/3 the usual cost.

If you intend to build; if your heater (new or old) is unsatisfactory; or if you still use stoves or grates, install an Underfeed furnace or boiler; soon pays for itself in low cost of heat, and adds to the selling or renting value of your property.



*Underfeed Furnace* Adapted for all buildings (large or small) residences, offices, institutions, schools, churches, halls, etc. Simple in construction, substantial and durable; is easily operated, and requires less attention than heaters of the ordinary type. *Underfeed Boiler*

## The Peck-Williamson Underfeed HEATING WARM AIR STEAM-HOT WATER SYSTEMS FURNACES-BOILERS

In the Underfeed, cheaper grades of soft slack coal and pea and buckwheat size of hard and soft coal yield as much clean, even heat as highest priced coal in other heaters. Coal is fed from below—pumped up underneath the fire by an easily operated lever, acting on a plunger. See diagram below showing vertical section of feed device and fire pot, which applies to both furnace and boiler.

**Fire is on top and sides, BETWEEN the fresh coal and radiating surface of fire pot and dome.**

This principle insures greatest heating efficiency. Smoke and gases, wasted in ordinary heaters, pass up through the fire in the Underfeed, are consumed, yielding more heat.

Perfect combustion results. No clinkers. The few remaining ashes are easily removed by shaking the grate bar.

### Saved \$40 in Coldest Winter

R. C. Harris, Pres't., Century Saw Mill Co., 810 Olive St., St. Louis, Mo., Feb. 17, wrote: "I have used the Underfeed two winters, the last the severest ever experienced here. Had no trouble whatever in keeping the house above 70 while my neighbors had difficulty in getting heat at all. Have cut my coal bill from \$85 to \$45 each winter and have not skimped coal either. Have looked after the firing of the furnace since I was a youngster and have never come in contact with one which equals the Underfeed in satisfactory results."

WRITE TODAY for our free furnace booklet or boiler catalog and fac-simile testimonials. Our Engineering plans also are free. Use coupon, giving name of local furnace or boiler dealer with whom you prefer to deal.

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DEALERS—Get Our Sales Agency Plan. WRITE TODAY.



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I would like to know more about how to cut down the cost of my Coal Bills from one-half to two-thirds. Send me—FREE—

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Name dealer with whom you prefer to deal.

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Fascinating, Safe, Healthful. Second only to Base Ball as a National Sport.

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A STRIKING example of modern return to the classic in outdoor decoration is shown in this Garden Gazing Globe. A Crystal ball mounted within easy reach of vision on a pedestal of chaste and artistic design.

## The Garden Gazing Globe

is a stately and beautiful garden ornament.

It reflects all the shifting charms of the landscape. Here is one of the many letters from delighted owners:

"I am more than pleased with it, and the landscape views developed in it are not only interesting to ourselves but are enjoyed by all of our friends."

May we send descriptive booklet and circular with prices today?

**Stewart Carey Glass Company**  
INDIANAPOLIS





## The Pony Express A Pioneer of the Bell System

**F**FIFTY years ago the Pony Express became the most efficient messenger service ever known.

Pony riders carried messages from Missouri to California, nearly two thousand miles across mountains and deserts, through blizzards and sand storms, constantly in danger of attack by hostile Indians.

Fresh horses were supplied at short intervals, and the messages, relayed from rider to rider, were delivered in the record-breaking time of seven and one-half days.

Railroad and telegraph took the place

of the Pony Express, carrying messages across this western territory. Today the telephone lines of the Bell System have done more, for they have bound together ranch and mine and camp and village.

This network of telephone lines, following the trails of the Indians, connects with the telegraph to carry messages throughout the world.

By means of Universal Bell Service the most remote settler is no longer isolated, but has become a constantly informed citizen of the American Commonwealth.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY  
AND ASSOCIATED COMPANIES

One Policy

One System

Universal Service

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NATIONAL CITY BANK BUILDING  
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one of the few species to be found elsewhere. It grows anywhere in the open from sea level to 6,000 feet above. The purple-blue flower nods on its wiry stem throughout the driest summers.

Two liliaceous plants of low altitude are always objects of marked interest. The clintonia, popularly called alpine beauty, begins in the forest area and continues up to the lower meadows. This may be known by its pure white blossoms and blue berries. Its leaves are oblong in tufts of from two to four. They spring up near the roots. The other is the mountain lily (*Xerophyllum tenax*), sometimes called basket grass lily or squaw grass, because its long, grassy leaves are used by the Indians in basket making. It grows over thinly wooded slopes at an altitude of about 4,000 feet, blossoming about the last of June. Its waxy-white or yellowish flowers grow on stems three or four feet long. The bulb occasionally puts forth several strong flower stocks at once, and then rests a few seasons. Higher in the open places this plant is scarce, shorter in stock, and prettier of flower. (See cover.)

Professor Flett has a list of about three hundred and sixty species from the mountain, including only flowering plants and ferns. There are more than twenty type species named from the mountain, not a few of which are found nowhere else.

THE EDITORS.

### THE SOUTH

(Continued from page 48)

Nothing binds so closely together as common misfortune, and from her common downfall, at the close of the war, the South arose as one united whole.

He shall be hard to please who cannot find that in the South to content his soul — for every kind of climate, soil, scenery, and life are offered from her generous store. Does one seek health — let him come and breathe her balm-giving airs in any latitude he prefers, let him drink of her life-giving springs; learn, on her bosom, the soul-resting quiet that is the balm of hurt minds, and find in her climate and her calm the true Fountain of Youth which Ponce de Leon alone in his generation sought before El Dorado. Does he seek sport — he may find it in any form. The sport of kings had here its best exemplification, until the commercializing of racing elsewhere aroused public sentiment throughout the country to banish from the land, at least, for the present, the sport which was once a gentleman's choicest diversion. No such shooting exists on the continent as that within her borders. The deer and the turkey — the royal bird that ever greeted a hunter's gaze — are still to be found by those who are so fortunate as to know the plain countryman who is the survivor of our former frontiersman; the catamount may still be heard or seen in the great woods not too near to the main traveled roads, and in the mountains or the swamps the bear has been recent enough to serve as a presidential reminder in the front of the automobile. Does one wish work — the South offers it to him in every form that the human enterprise can evolve. It was in the South that dreamers dreamed the dreams which made all the stars do obeisance to our land. It was in the South that Maury conceived the method of charting the Seas; and laying down the Atlantic cable; it was in the South that the Wrights from just beyond her borders tried out their new machines for navigating the air; that McCormick devised his epoch-making machine for reaping grain, and cut the price of bread in two for all the world.

Here the traveler may still find the remains of a distinct and charming civilization. He may find welcome alike in the halls of those who once lived in baronial generosity if not magnificence; and in the cabins of mountain farmers who cultivate their little fields in the cove and dig coal out of the hill at the back of the house. He may find magnolia and azalia gardens the like of which are, perhaps, not elsewhere on the earth. I have seen the gardens of Cintra; but I never saw anything like the Azalea gardens of Charleston in their bloom.

Does one seek a home — he may find one of any grade or style from the log house of the pioneer to the Colonial mansion redolent of historic interest, and eloquent with the romance of generations of gallant gentlemen and lovely

**R**UNNING water, clear and cool, from well or spring, CAN be had in your home at a reasonable cost if you install a PAUL water supply system. Once installed, it will give you steady, dependable service with practically no attention. There is nothing complicated about any of the

**PAUL Water Supply Systems**

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They are made in several capacities for deep and shallow wells, and arranged for electric motor or gasoline engine drive.

The trade mark "PAUL" is your assurance of highest quality. It means that we are NOT assemblers of parts made here and there—we manufacture all our equipment, except the motors, which are of approved make—we guard PAUL Quality closely. This is why we can guarantee complete satisfaction.

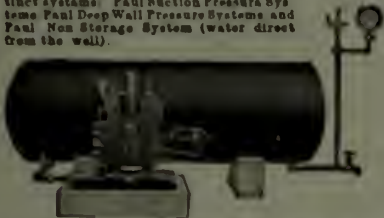
Write us about your water supply problem, and ask for Booklet No. 202. You will find it profitably interesting.

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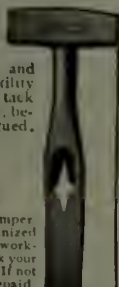
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## Perfect Protection adds to Health and Comfort

In planning a home, the most vital factor in the safeguarding of health and comfort—the roof—should have special consideration. For the roof should efficiently protect not only those who dwell beneath it, but the house itself and all its contents.

A Tile roof is not affected by climatic conditions or atmospheric changes—takes up no moisture on the under side to cause decay, and is the only fire-proof roof yet devised. It is non-porous and non-conducting.

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A Tile roof, in architectural beauty, gives character to a house, and affords a protection which is absolutely leak-proof and moisture proof.

The cost of Tile roofs, to all but a few, was at one time prohibitive, but today such a condition has been happily overcome—due largely to the improved processes of manufacture introduced by our Company, which operates four plants with an enormous output.

Anyone building a house from \$5,000 up can now afford one, and to select a cheaper material is false economy, because the first cost of the Tile roof is its only cost.

It lasts forever, requires no repairs, no painting, does not fade, and always retains its beauty.

The Tile roof, more than any other feature, adds selling value to a structure. In an ordinary house the roof first shows decay—a Tiled-roofed house never looks old. Tiles prevent depreciation, and this is of vital importance when investment as well as home-building is a consideration.

Leading architects recognize these facts. They are not only recommending Terra Cotta Tiles for roofing, to their clients but using them in the construction of their own homes.

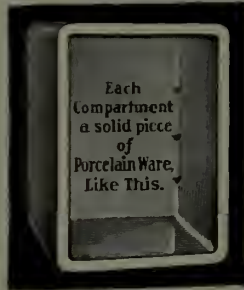
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This is a book of compelling interest, dealing with questions in which every man, and especially every woman, is vitally interested. Read the chapters on the postponement of marriage, the preliminary period of self-support, the new training for motherhood, the problem of leisure, the opportunity for civic service — and you will have some new and interesting ideas.

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women. There is by report no region in Christendom where land so productive, or at least so responsive to good tillage, and so convenient to market may be had so cheap as in the Piedmont and Tidewater regions of the South, from Maryland to Florida. He may find a life as primitive as man lived in the golden age, or as luxurious and refined as is found in the courts of kings.

Why then attempt to picture the South — to know the South is to love her. To love the South is a liberal education.

And yet the fine gentlemen of Virginia and the Carolinas; of the Blue Grass and the Louisiana plantations did not necessarily come out of these fine mansions; they often built them after they had "arrived"; but, like the game cock that Irving celebrates as "the model of the husband, the fine gentleman and the warrior," they came often from not far from the barn yard. It was in far less pretentious mansions than Mount Vernon, Monticello, Montpelier, and Arlington, that Washington, Jefferson, Madison, and Lee were born and spent their early life. They built or lived in these mansions after they had achieved greatness; but they bore the yoke in their youth — and the same may be said of the rest of the South with some notable exceptions. The greatness of the South owed little to brick and mortar.



Toxaway Falls. N. C.

Its reputation was founded not on palatial structures; but on men who would have graced a palace. The mark of its life at its best was its simplicity — and this is but another name for sincerity.

As the traveler wends Southward, almost the whole way he is on historic ground. In Maryland he passes through scenes redolent of historic story. Washington, with its beauty of greenery and white marble, sits on the hills and plain beside the Potomac, with the most majestic monument in the world towering over all, and from the Potomac, where one crosses on the site of the old "Long Bridge," supplanted but yesterday — by whatever route he takes he passes over a continuous battlefield. From Alexandria, whether he travel by Manassas, Culpeper, and Lynchburg on to Chattanooga, Nashville and New Orleans, or by Acquia Creek, Fredericksburg, Hanover Junction, Richmond and Petersburg on to Salisbury, Charleston, Atlanta or Savannah, he traverses the greatest battlefields of modern or ancient times. Should he take the route by the Ohio and the Mississippi, he will find it likewise historic ground.

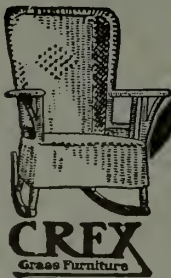
In Virginia, on the main route, Alexandria and its neighborhood with Mount Vernon, Gunston Hall, and Arlington vie with Fredericksburg, Richmond, and Petersburg in historic association. In North Carolina, Raleigh, Winston-Salem, Salisbury, Wilmington, and other tide-water towns lure with the same interest; and traditions haunt us of Virginia Dare and Croatan, and the Lost Colony of Sir Walter Raleigh; of Huguenot and Palatine settlements; of Blackbeard, the Pirate; of Flora MacDonald, and Marshal Ney, while History speaks with a firmer voice of Mecklenburg Resolutions and

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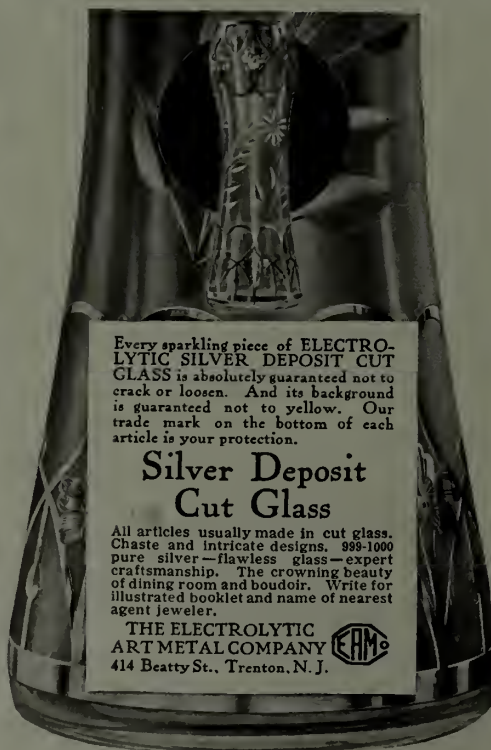
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Is unique in quality and universal in popularity. It cannot be replaced by any of its imitators. For the bath, for use after shaving, as a rub-down after exercising, and for general dressing-matchless. Its fragrance is delightful and permanent, especially during hot weather.



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the fierce battles of Guilford and King's Mountain. And so in the other states—from the date of the Indian Wars down to the last shot fired by the Ku Klux sentry; there is scarcely a neighborhood or a homestead where Clio has not paused to implant the print of her war-shod foot, and where Peace has not forged a sword into a plow-share.

It is a singular fact that the main highways of travel which cut through the South traverse, for the most part, the poorest and least picturesque portions of the country. But it matters the less, for the greater part of the travel through the South is by way of the "through" express trains, which tear along with windows shut and curtains down. Their passengers are like the migratory birds who prefer the night for their passage, and by preference shape their course by the desert. They hurry with dazzling swiftness like the pistons of their engines, shot back and forth between two boxes of steam. To know the South, one must, like the birds of passage, find feeding grounds and use them—not as mere bivouacks, but as haunts and homes. For the essential element of the South is a spirit of calm. The stars shine everywhere, but one sees the stars only when the storm is stilled, the clouds pass, and the lights are dimmed.

Should I be called on to "guide the clanging phalanx" even of the wildest migrants from North to South, I should map several courses. One should lead by the margin of the sea; one should follow the rolling Piedmont; one should wind down the valley of Virginia, with its azure mountain walls, into Tennessee; and one should cross the mountains and follow the valleys of the Ohio and the Mississippi. From time to time I should have them diverge to view the charms of the country about them, and always I should bid them remember that time was made for slaves, and that in this land the only slaves left are the slaves of time.

Should we take the South geographically, we should find it divided into long sections. We should find the Tidewater region stretching from Maryland to Florida with its thin, over-worked and war-worn soil, but now being restored under the development of a more scientific system of agriculture. Its people are mainly poor and leisurely, slow of speed and gait. Yet this region supported the country during its earlier



A typical Southern ford, with the suspension foot-bridge beside it

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generations, and from this slow, drawing population on occasion have sprung at need a goodly proportion of the men who made the Nation. Many rivers traverse it, some as noble as any on the globe, and most of them beautiful. They are the parents of this land for they made it.

Next on the West we should find the Piedmont, a rolling region, richer and more striking than the level land that lies between it and the sea. Its population is more vigorous and robust than the population of the lowlands; but not better; only equally good, courteous, hospitable and generous.

Next come the mountains of the noblest range that overlooks the shores of the Atlantic. Here, secluded from modern progress, a different life



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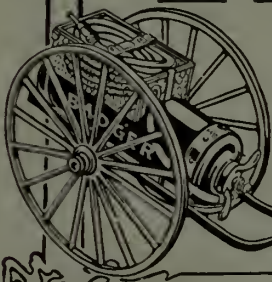
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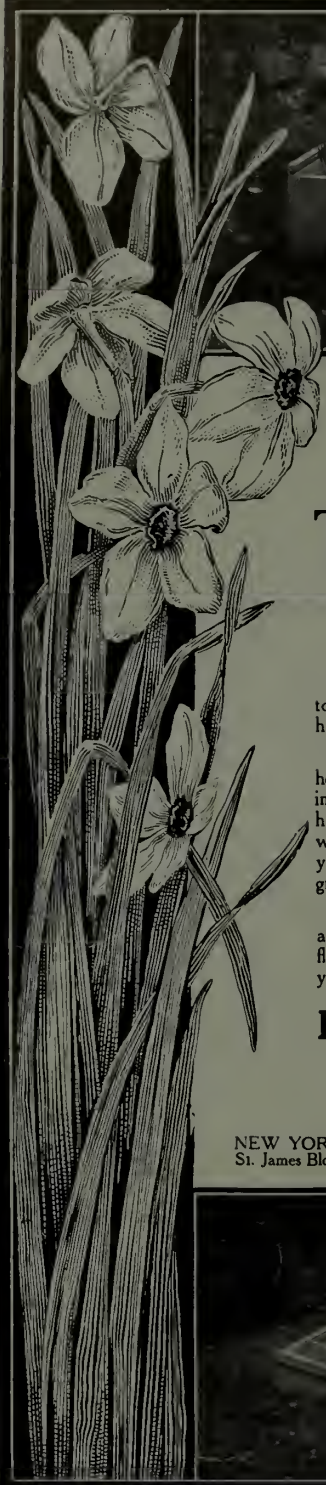
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Every one of these frames is made of cypress ("the wood eternal") bolted together with strong iron corner braces. The Single Row and Melon Frames have movable sash, the Single Plant slideable glass set in grooves.

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Send for our Two P Booklet; it tells all about all our 6 different sizes of frames and gives you just the getting started hints you want for either vegetables or flowers. Every day's delay in getting started now counts for at least three against your results along in June. So it's best to order promptly.

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has been lived so long as almost to set off its population as a peculiar people. Yet are they the same with those both to East and West. Of the purest old English and Scotch stock, they have lived through the generations, like the highlanders of other lands, so untouched by outside influences that they present a life which passed elsewhere before the House of Hanover came to the throne. In the most ancient and picturesque portion of America they live the most ancient and picturesque life—a life primitive in manner and patriarchal in form. It matters not whether it be in the Cumberland Mountains celebrated by John Fox, Jr.'s novels; in the "Land of the Sky," which Miss Fisher discovered, and opened up nearly a generation ago, before the French Broad and the Grandfather Mountain were known outside of the atlas; or the region of the "Great Smoky Mountain" with its kindred Tennessee Mountains which Miss Murfree made celebrated two decades later. These mountains are all similar. They are destined to be the great health resort of the South—as the seaside of New England is to be that of the North.

Beyond this misty barrier, we shall find, as we wend southward, a region of rolling hills and verdant slopes, hardly rivaled by Kent and the gracious slopes of Southern England



Chimney Rock, Ky., is sufficient evidence that the locality has not been visited by earthquakes for many centuries

On southward, through the Land of Cotton, we may journey amid the cotton fields which, producing the chief commercial staple of the South, have struck the chord of sentiment, and been woven into the most touching songs of the country. And presently we shall come to the cane fields and the sugar plantations of the lower Mississippi. Here is the far South with all that it implies of odorous warmth and subtle charm.

Through it all—part of it all, giving a similar cast of calm and restfulness and charm to all, whether it be mountain range, Piedmont, or Tidewater—if one but be willing to accept it with all his heart, and let it sink into his soul—if one but be

"... fain of their fellowship, fain  
Of the Live Oak, the Marsh and the Main,"

he shall find the same spirit; the same charm. It is the South.

### COUNTRY LIFE ABROAD

(Continued from page 60)

The principal trees in the forest are oak, ash, elm, pine, beech, and yew, many specimens of which are of a venerable age, while there is also the birch with its graceful feathery plumage, and the tall regular Scotch firs, an importation which is said to be exerting a malign influence on the water supply of the other trees. In spring the

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Start off the season with tools that banish the irksome toil which takes away your enthusiasm. Your garden should furnish both play and food. With one Iron Age tool you can sow the seed and cultivate the plants throughout the season. This illustration shows a tool, comprising four implements, all in one, and each individually perfect. As a Drill Seeder, it sows any thickness desired. As a Hill Seeder, it drops any width from 4 to 24 inches. And as both, it is under perfect control; the feed can be stopped at any instant. As a double or single Wheel Hoe Cultivator, it performs all work as only an Iron Age tool can. It pushes so easily that women get great pleasure from making garden with it.

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SEVENTY-FOURTH ANNUAL  
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will be found, and among the 4 color pages, or the 6 duotone plates you will surely get an inspiration for your garden or truck patch. All the advanced ideas—all the new and dependable creations in plant or vegetable world—all the improved strains in the flower kingdom—are contained in this valuable work.

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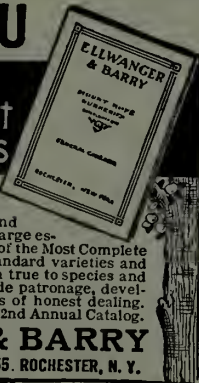
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hawthorn is white with blossom, while the ivy clothes the tree trunk. All the year round the holly is a deep green, decked in winter with scarlet berries, a crop of which fills the London Christmas markets. Brackens luxuriate and the yellow gorse covers the slopes.

Autumn however, is the time of the year to see the forest in all the glory of its woodland coloring, with the morning mist over all like a bridal veil. The colors of the dying leaves on such great stretches of woodland, and spread upon such a variety of trees are magnificent. The whole landscape is aglow with red browns and golden yellows, bronze and russet, set off by the green of the holly, mingling with the brackens shading from golden to brown and from brown to red.

Underfoot all is unchanged from its first form. No ditching or draining has been suffered, its springs bubble out in the selfsame places, its rivers and streams have not been turned from their courses, its trees and flowers are sown by nature, its bogs and mosses are the undisturbed and unchanged work of nature alone, untouched by the hand of man.

No gardener has set out or tended the gardens of the forest, gardens bloom by brooks, in the woods, on heaths and on the boggy marshes. Matley bog with its covering of green over the



The New Forest gypsies lead a tolerably happy existence and pay taxes to no one



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HICKS own nursery grown trees. No better can be grown by anybody anywhere. They may cost a bit more than the usual kind and they are worth it. You get fine, shapely, root-pruned trees, full of vigor. Whether it's a six or twenty-six foot tree the quality and vigor is there. We sell trees of all sizes, but most of our customers buy the larger ones

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**Isaac Hicks & Son**  
WESTBURY, LONG ISLAND

treacherous mud is covered with a carpet of mosses, a riot of color from golden and apple green to rose madder. The most exquisite flowers rest upon it, slender spikes of pale mauve or white orchis, cotton grass with its white tufts, the bog bean, the blue speedwell, yellow king cups, all in reckless profusion. In autumn the heather spreads the heath with a purple coverlet.

In April the gnarled roots of the mighty beeches near Mark Ash are tenderly surrounded by yellow primroses, sweet briars, cowslip buds, wood anemones, wood sorrel, and the wild hyacinth, a veritable fairy garden where "A Midsummer Night's Dream" might have had its daintiest staging, and Titania and Oberon held their bridal revelings. To the poet, the artist, and all others who love nature the New Forest is an open book of perpetual inspiration and joy.

ROBERT W. SNEDDON.

APRIL NOTES FROM ABROAD

VENICE is probably the most unique city in the world. If you have been spending the winter in Rome, Naples, or elsewhere in southern Italy and are going northward with the approach of warmer weather, by all means visit this city of waters. Life and conditions there are curious and quaint, the buildings rich in architectural beauty and historic association.

Business of every sort is conducted by boat. The hotel liveryman, the tradesmen of every sort—everybody, in fact, uses boats. Boats carry the mails and take offenders to court or jail.

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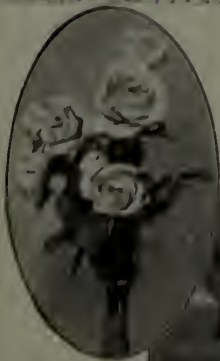
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Jonkheer J. L. Mock Rose

**FIRST PRIZE  
International Rose Exhibition  
Paris, June, 1911**

## Jonkheer J. L. Mock



This picture shows the International Rose Jury, in the Bagatelle Gardens, Paris, last June. This jury, composed of distinguished rose culturists from many countries, was appointed by the Prefect of the Seine. Our president, Mr. Robert Pyle, was the sole American member of the jury, an indication of the international prominence attained by The Conard & Jones Company as rose growers. Mr. Pyle stands at the left. Next to him is England's representative, and next, the German expert.

Jonkheer J. L. Mock Rose has been awarded two Gold Medals, one Silver Medal and other honors.

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If you have a garden of perennials, or want one, request "Hardy Garden Flowers" or "The Iris Catalog". Should you prefer the more showy things, tell us to send "Flowering Trees and Shrubs". In case you have a larger place and can plant extensively of many varieties, we shall be glad to send the "Biltmore Nursery Catalog". Edition of each limited—write today for the one you can use to best advantage.

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This new rose is a result of a cross between the old American Beauty Rose and an unknown seedling. It is hardy and successfully withstands severe winters. Foliage presents a pleasing, ornamental appearance and the large, glossy green leaves remain on the bush all summer. Can be trained successfully to trellises, pergolas and verandas or can be grown as a pillar rose as shown above.

We have a limited number of one-year plants which will be sent, carefully packed, postpaid, for \$1.00 each as long as they last.

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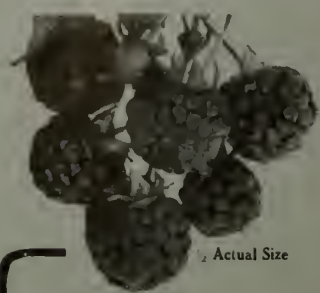
is thoroughly equipped and in charge of a competent designer. Our trees, shrubs and vines are unequalled. Water-color sketches and planting plans carefully prepared and estimates furnished. Write us if you wish to consult our representative when next in your vicinity.

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### St. Regis Everbearing

The Raspberry for the Million and the Millionaire. "There's Millions in it."

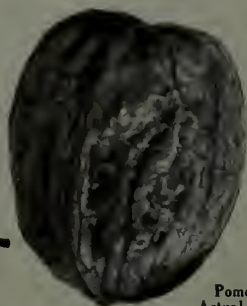
You can now have wonderful raspberries from June to October by setting out the plants this spring.

St. Regis produces continuously from June to October—heavy crops of large, luscious, sugary berries of bright crimson.

Its summer and autumn crops do not consist of a few scattered berries, but good to heavy pickings all the time. One party who had a small patch, say half an acre, picked and shipped from it two or three pickings each week for four months and his profits were enormous.

Grows successfully in any soil—endures without injury heat, drought and severest cold. *Catalogue free.*

GLEN BROTHERS, Glenwood Nursery (Est'd 1866), 1903 Main St., Rochester, N. Y.



### Hardy English Walnut Trees

Rochester grown—hardier than Peach Trees. For the lawn, the acclimated English Walnut is unmatched, with its smooth, light-gray bark, luxuriant, dark green foliage, lofty, symmetrical growth. Grafted on Native Black Walnut, these trees are hardier than the Peach.

#### ENGLISH WALNUT CROPS YIELD BIG PROFITS

The demand for nuts is big and prices give growers handsome profits. California crop exceeds its orange crop in money value. Cultivation, harvesting and maintenance are easy and inexpensive. Whether you plant for decoration or for profit, investigate acclimated English Walnuts. Information and catalog mailed free on request.



### Hardy Acclimated Pecan Trees for Planting in Northern States

Here are Pecan Trees which will thrive in Northern States—producing as prolifically and as profitably as any Southern Pecans.

Pecan Orchards pay far bigger profits per acre than wheat or corn.

A shade-tree of wondrous beauty, long the pride of the South, may now adorn any Northern landscape.

We control five varieties of hardy trees best suited for Northern planting. These have withstood temperature far below zero—never been known to "winter-kill." Successful in almost any soil. Begin bearing in 3 to 5 years. *Catalogue free.*



## Start a Fernery

Brighten up the deep, shady nooks on your lawn, or that dark porch corner—just the places for our hardy wild ferns and wild flower collections. We have been growing them for 25 years and know what varieties are suited to your conditions. Tell us the kind of soil you have—light, sandy, clay—and we will advise you.

### Gillett's Ferns and Flowers

will give the charm of nature to your yard. These include not only hardy wild ferns, but native orchids, and flowers for wet and swampy spots, rocky hillsides, and dry woods. We also grow such hardy flowers as primroses, campanulas digitalis, violets, hepaticas, trilliums, and wild flowers which require open sunlight as well as shade. If you want a bit of an old-time wildwood garden, with flowers just as nature grows them—send for our new catalogue and let us advise you what to select and how to succeed with them.

EDWARD GILLETT, Box B, Southwick, Mass.

## HORSFORD'S

### Hardy Plants

Will Stand Cold Weather

Try them and watch results. Our flower seeds grow. Get a few and test them. Our new catalog is sent free. It offers Shrubs, Trees, Vines, Ferns for outside culture,

Lilies, old-fashioned Flowers, Orchids for outdoor planting, and other hardy ornaments that can stand a Vermont winter. You should see it before making up your lists.

F. H. Horsford, Charlotte, Vt.

1840 Old 1912

## Colony Nurseries

Hardy Shrubs,  
Trees, Vines,  
Evergreens  
and  
Perennials

A large and fine stock of well-rooted plants grown in sandy loam. Good plants; best sizes for planting; very cheap. Priced catalogue free on application.

T. R. WATSON, Plymouth, Mass.

The picturesque gondola was once the only conveyance, and still is to be seen on the Grand Canal in marked contrast to steel-hulled ocean liners; but motor boats are fast supplanting their slower cousins. With the march of modern progress Venice loses much of its quaint charm year by year. Better see it this year rather than next.

SO EARLY as May southern England is beginning to look like our summer, although farther north it is still wet and cheerless. Trees and shrubs are green and early spring blossoms are seen on every hand. Every roadside cottage seems to be rose- or vine-clad, with many flowers in the little plot of ground before the door. Few are too poor to have flowers in England, and the result of these floral embellishments is a picturesqueness not seen in America. Of this statement the little old cottage seen in the heading of this department furnishes ample proof.

ALTHOUGH Biarritz as a resort lost much in the death of the late King Edward VII, who made it his chief vacation stopping place, the golf course seems to be as popular as ever. As compared with a few years ago this popular links is both longer and somewhat improved. Its putting greens have more growth on them, some of the holes have been made longer by carrying back the tees, and in many instances the greens have been guarded by new bunkers into which sand has been carted. A determined war against worms has been waged with copper sulphate with deadly effect, and at the present time the lies through the green are as good as on many a course of higher reputation.

IN SPITE of the fears to the contrary the Clyde Fortnight will be a feature of this year's English yachting events during the middle of July. Owing to the International Festival at Kiel this coming summer it was feared that the Clyde event would have to be abandoned, but it has been found possible by readjustment of dates and plans to rush the yachts through the Caledonian Canal at the end of the Kiel festivities.

SPRING is the ideal time to visit Spain, and May the best month. Many go earlier, but the cities of northern Spain—Avila, Burgos, Segovia and Taragossa—are cold in February and March, although Madrid, Toledo, Barcelona, Cordova and Seville are usually pleasant at this season. In summer Spain is very hot and dusty, and the number of tourists is too great for comfort.

The courtesy of the people is remarkable, particularly north of Madrid, where one finds the best types of the Spaniard. In fact, led by their king, the people are waking to the benefits accruing to the country from an influx of tourists. It is well known that all schemes for the establishment of good modern hotels, the construction of better roads, the increase of traveling facilities and the preservation of national monuments meet with the King's support. It may be said also that no foreign visitors are more kindly received than Americans at the Royal Palace of the "Plaza de Oriente." Said the young king recently:

"I have always longed to see my country on the same level as France and Italy in the eyes of enlightened travelers, a position Spain deserves on account of her natural beauties and her artistic history and monuments."

Madrid has 775 licensed automobiles; but there are no automobile trucks. One reason is because gasoline costs 48 cents per gallon. Doubtless there would be a more rapid increase in the number of private automobiles if it were not for the ultra-conservatism of the old aristocratic families, the great majority of whom are inclined to stick to their horses and carriages. Again, the prices that are demanded for machines by the Madrid dealers would in many instances be considered exorbitant even in the United States. The roads in and around Madrid, as well as in many parts of Spain, are quite equal to the famous roads of France. Even in the face of Spanish conservatism several of the best families, following the wake of their sport-loving young king, are taking to automobiling as a fashionable diversion, and automobile excursions have become frequent throughout various sections of the country.



## GARDEN FURNITURE

ARTISTIC, COMFORTABLE & DURABLE

OLD ENGLISH GARDEN SEATS  
RUSTIC WORK GARDEN HOUSES  
ROSE ARBORS & OTHER ACCESSORIES FOR THE ADORNMENT & COMFORT OF THE GARDEN

SEND FOR CATALOGUE OF MANY DESIGNS

NORTH SHORE FERNERIES CO.  
BEVERLY, MASS.

# DE LAVAL CREAM SEPARATOR

## NEW AUTOMATIC OILING

The most important Cream Separator improvement since the introduction of the present type of De Laval machines

The new automatically oiled De Laval Cream Separators are now being supplied in all sizes, and this improvement constitutes another great step forward in cream separator construction — the one thing possible in betterment of the previous De Laval machines of the present type.

The new system of De Laval automatic oiling is distinctively different from any other splash or spray system in that there is a constant regulated feed of fresh oil and discharge of used oil. Other



splash systems use the same oil over and over, until it soon does more harm than good.

In the new automatically oiled De Laval machines all gears, shafts and bearings practically float in a mist-like spray of oil and literally never touch each other during their operation.

De Laval agents will be glad to exhibit the new machines and demonstrate the working of the new automatic oiling system, which more than ever enhances De Laval superiority in every feature of cream separator practicability.

**THE DE LAVAL SEPARATOR CO.**

NEW YORK  
CHICAGO

SAN FRANCISCO  
SEATTLE



## A Compact Little Layout of Palm House and Cut Flower Houses



IT was planned particularly to fit a particular available space, between the garden and the residence drive. And it fits it admirably.

Then there's another thing — the way it's built. You have noticed that it has curved eaves, adding greatly to its attractiveness. But you say "other greenhouses have curved eaves." Yes, but not the U-Bar Curved Eave. It's the U-Bar that makes the U-Bar curved eave. And before you commit yourself to buying a house look into the U-Bar. It's a decided departure in greenhouse building. So different is it, that you better send for a catalog and look into the difference. We will send a piece of the U-Bar itself along with it. If you rather talk face to face with one of us, we will gladly send a representative who can go thoroughly into the matter with you. Send him tomorrow if you say so.



And on the side benches have tomatoes. They will be in fruit all winter long — and longer.

## U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE. NEW YORK

CANADIAN OFFICE: 10 PHILLIPS PLACE, MONTREAL

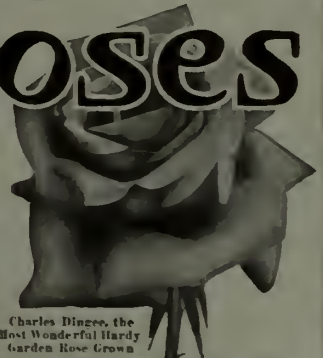
# DINGEE ROSES

Are the best grown, hardiest and freest blooming. Little care is required to grow them. Sixty-one years of experience is back of them. Dingee Roses are unequalled for beauty, vigor and growth — *always grown on their own roots* — the only way a rose should be grown. No matter where you live, we prepay all express charges under a special plan, explained in our book, and guarantee safe delivery. Write today for the greatest Rose book ever published, entitled

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There is no other book about Roses that compares with it. Elaborately illustrated in colors. Contains 106 pages. Gives special prices and tells all about these famous *Dingee Roses* — nearly 1000 kinds — and all other desirable plants and seeds and *how to grow them*. It's free. Send for your copy today.

THE DINGEE & CONARD CO., Box 420, West Grove, Penna.  
70 Greenhouses



Charles Dingee, the Most Wonderful Hardy Garden Rose Grower

THE NATURE CLUB

(Continued from page 56)

1. To what extent do birds return year after year to their previous nesting places?
2. How far from their birth-place will birds be found nesting?
3. In cases where an identical nest is occupied in successive seasons, how is the tenancy determined?
4. Do birds reared in distinctive nesting sites themselves favor a similar site?
5. In migration, how far and in what direction do individual birds travel?
6. Do migrants travel by definite routes, and, if so, what is the nature of these routes?
7. Do birds have definite winter quarters which they seek each year?
8. To what extent are males and females, young and old, separated while migrating and in winter quarters?
9. What relation do the winter quarters of the northerly breeding members of a species bear to the southerly breeding members?
10. To what age do wild birds live?

THE AMERICAN GAME PROTECTIVE AND PROPAGATION ASSOCIATION

A NEW society, with offices at 111 Broadway, New York City, starts out with a vigorous campaign of coöperation with local and county game wardens to make effective the existing game laws. Special agents have been sent out,



This young robin merely yawns while his band is being put on

and their work has greatly strengthened the local work. They have the cordial thanks of sportsmen and state officers, and all who look upon the alarming decrease in our supply of fish and game with intelligent foresight.

The Society will help to organize state and county protective organizations, and believes that the federating of these clubs into a national body with influence powerful enough to cope with the short-sighted, selfish interests that now oppose the conservation of game, will be of great assistance.

AS TO VON BERLEPSCH BIRD BOXES

IF YOU wish to buy bird boxes of the Von Berlepsch patterns, you can get them in this country, and save the delay and bother of importing them. Write the Director, and she



Young flickers on the day of leaving the nest

will give you the name and address of the person authorized to make these boxes for sale.

BIRD NOTES

AT "THE PINES" birds are fed every day in the year and all are welcome except the shrike and hawk.

This month, April, we have noted two (to us) uncommon events. For ten days the crows have come down within a few feet of the side door to eat the corn scattered round for the bluejays. We had noticed them under the trees at the end



BODDINGTON'S SEEDS GREW THESE PRIZE WINNING VEGETABLES



THE most common sense remark about seeds that we have heard in a good while was made by an amateur gardener at Lenox, Mass. He said "what is the use of my sowing anything but prize winning seeds—they are superior, or they wouldn't win prizes."

That's a good text. On it is based Boddington's Quality Seeds, and because of it, we show these Boddington prize winning vegetables that carried everything before them at the Lenox Horticultural Show. Known all over the country for its high class. For three successive years, Mr. Edwin Jenkins, Superintendent to Giraud Foster has carried off the laurels. He says in a letter to us: "A large share of my success has been due to the Quality Seeds from Boddington's."

Boddington's Prize Winning Seeds then, are the seeds for you to plant this year, and all the time. Send for

BODDINGTON'S 1912 GARDEN GUIDE

In it, all seeds that are under-ruled have been proven to be the best in their class—the prize-winners. Follow the rules, and you will outgarden all your previous gardening successes.

Select and order your seeds early, so you can plant your garden early and have that early garden you have each year talked about having.

OUR PRIZE WINNING QUALITY VEGETABLE SEED COLLECTIONS

Quantities and varieties fully described on page 107 in our Garden Guide

Collection A sufficient for a family of five	-----	\$4.00 mail or express prepaid
Collection B " " " " " eight	-----	7.00 " " " "
Collection C " " " " " fourteen	-----	13.00 " " " "

Or less than a dollar a head per family. — Save your green grocer bills and enjoy fresh vegetables daily, all summer

*Boddington's Seeds*

Arthur T. Boddington

338 West 14th Street, New York

ROSES OF NEW CASTLE

Most rugged, hardest Roses in America. Plant them and make your Rose Garden a success. New Castle soil best adapted to Rose growing—hence our big success in growing healthy, vigorous Rose bushes. They carry all the strength and vigor of New Castle soil.

We grow and sell all best varieties of Roses, also Hardy Perennials, Shrubs, Plants, Bulbs, flower and vegetable seeds. Safe arrival guaranteed.

ROSES OF NEW CASTLE—Free

Our 1912 edition, most famous rose book published. Profusely illustrated in colors—highest authority on rose culture. Gives all necessary information. Plan your Rose Garden now—send for this great book—it's free—write today.

HELLER BROTHERS CO.

Rose Specialists, Box 430, New Castle, Indiana

KNOW YOUR SPRAY SOLUTION

The secret of Spraying Success is in the right solution.

The Taylor "LI-SUL-SPRAYOMETER" shows you the exact gravity and strength of your Lime and Sulphur washes—the most efficient and least dangerous of all spraying solution.

N. Y. Pattern—Two Sprayometers and Test Jar in case, \$2.00  
Penna. Pattern—Sprayometer and Test Jar in case, - 1.25

If your dealer cannot supply you, write us.

Send for circular of formulas and general information on Spraying—ask about the "Tycos" Frost Alarm and other Thermometers for Orchardists.

Taylor Instrument Companies

58 Ames Street ROCHESTER, N. Y.

Grow Dwarf Apple Trees

Novel, but practical, and intensely interesting. Require less room. Easily cultivated, pruned and sprayed. Bear fruit earlier than the standards. Make little shade, permitting other crops to be grown between the rows. May be trimmed and trained on wire to grow in almost any shape. Suburbanites, farmers and amateur horticulturalists alike find pleasure and profit growing dwarf apple trees. No garden or orchard is now complete without several of these wonderfully productive trees.

VARIETIES:—Duchess of Oldenburg, yellow, striped red; Winter Maiden's Blush, red cheek; Bismarck, red, beautiful; Red Astrachan, crimson. I also carry a complete line of Nursery Stock, Asparagus Roots, California Privet, Strawberry Plants, etc.

Prompt Shipment. Send today for Illustrated Booklet, Free.

ARTHUR J. COLLINS, Box C, Moorestown, N. J.



# The Companionship of Farr's Hardy Plants

There's a delightful "companionship" about a group of well chosen hardy plants that you cannot reach unless you own them. Years ago, my hardy garden was only a part of my side lawn. Now it has expanded into acres and acres of the choicest varieties, and this spring I am watching more eagerly than ever for the first sign that another glorious flower pageant is about to be ushered in.

Do you know the joy of watching this miracle in your own garden? Surely you have room for at least a few plants, and if properly chosen, these will afford you endless pleasure and satisfaction. I should be more than pleased to be allowed to help you plan a garden.

### My Book

### "Farr's Hardy Plants"—Free

It tells of Irises, Peonies, Delphiniums and a host of other grand hardy plants in greater variety than can be had anywhere else—scores of my friends pronounce it the best work of its kind ever published. Tell me all about your garden when you write.

### BERTRAND H. FARR

Wyomissing Nurseries

643C Penn Street Reading, Pa.


*NOTE.*—Dickson's Irish Roses the best in the world. Heavy, dormant 2-year plants grown in Ireland especially for me by this celebrated firm. Ready to ship now.



LOOK FOR THE



ON EVERY PIECE

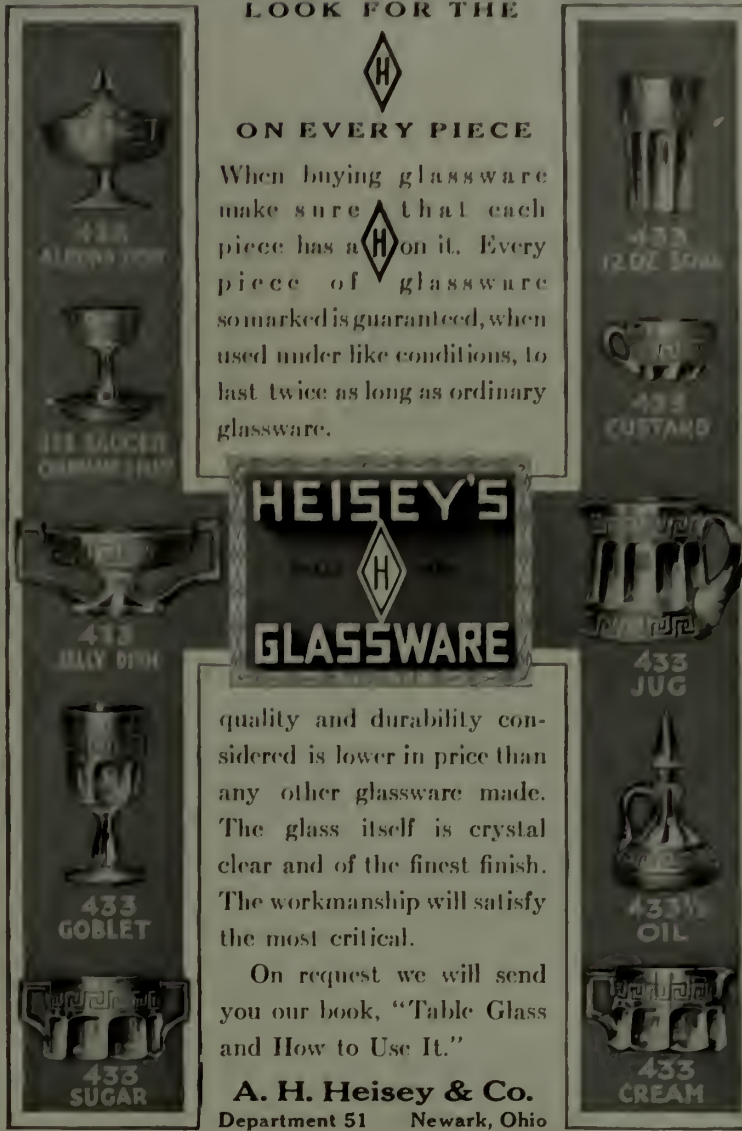
When buying glassware make sure that each piece has a  on it. Every piece of glassware so marked is guaranteed, when used under like conditions, to last twice as long as ordinary glassware.

## HEISEY'S GLASSWARE

quality and durability considered is lower in price than any other glassware made. The glass itself is crystal clear and of the finest finish. The workmanship will satisfy the most critical.

On request we will send you our book, "Table Glass and How to Use It."

**A. H. Heisey & Co.**  
Department 51 Newark, Ohio



# FLINT'S FINE FURNITURE

AS AN INVESTMENT  
THAT "PAYS"

In appearance, Quality and Workmanship, in beauty of finish and "fitness" of design, **Flint's Fine Furniture** bears unmistakable evidence of seventy years devoted to the production of *furniture that "wears."*

Furniture that gives a lifetime of service; that "lasts" from an artistic point of view; that *as an investment "pays."*

Our exhibition of Spring and Summer Styles makes plain to all that furniture "built Flint Quality" is distinctly an artistic production, however simple in character or low in price.

(Booklet illustrating Spring and Summer Styles mailed on request.)

## GEO. C. FLINT CO.

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24-26 WEST 24<sup>th</sup> ST.



# SCOTT ADIE

THE ROYAL  
SCOTCH



Catalogue  
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WAREHOUSE

Scotch Tweeds,  
Hand Woven Tartans  
Real Honespuns,  
Reversible  
Cashmere and  
Real Vicugna Cloths.

'Exclusive Designs.  
Best Qualities only,  
and most up-to-date  
London Tailoring.'

Steamer Rugs  
and  
Scotch Shawls.

The Largest and  
Best Selection  
in London.

Telegrams  
Scott Adie, London

115 & 115<sup>A</sup> REGENT ST. LONDON

# Victor-Victrola

Every home should have a Victor-Victrola



Victor-Victrola XVI, \$200  
Mahogany or quartered oak



Victor-Victrola IV, \$15  
Oak



Victor-Victrola IX, \$50  
Mahogany or oak

Victor Talking Machine Co., Camden, N. J., U. S. A.  
Berliner Gramophone Co., Montreal, Canadian Distributors

Always use Victor Records played with Victor Needles—there is no other way to get the unequalled Victor tone.

Victor Steel Needles, 6 cents per 100  
Victor Fibre Needles, 50 cents per 100 (can be repointed and used eight times)

## because

this instrument satisfies the love of music that is born in every one of us; touches the heart strings and develops the emotional part of our nature; freshens the tired mind and lightens the cares and worries of every-day life.

## because

the Victor-Victrola brings to you the best music of all the world and gives you a complete understanding of the masterpieces of the great composers such as you can acquire in no other way.

## because

the Victor-Victrola places at your command the services of the world's greatest opera stars, who make records exclusively for the Victor, besides a host of famous instrumentalists, celebrated bands and orchestras, and well-known comedians and entertainers.

## because

the Victor-Victrola is universally recognized as the world's greatest musical instrument, occupies a place of honor in homes of wealth and culture everywhere, and has awakened millions to a proper appreciation of music.

## because

with Victor-Victrolas ranging in prices from \$15 to \$200 and Victors from \$10 to \$100 no home can afford to be without one of these wonderful instruments.

## because

any Victor dealer in any city in the world will gladly play any music you wish to hear and demonstrate to you the Victor-Victrola.



of the lawn some fifty feet away for several days, evidently picking up crumbs that the chickadees had dropped. The morning of the third of April I was surprised to find that all the broken ears of corn I had put out for the jays the night before were gone. We broke up several more and scattered them around in their feeding place. Soon a loud "ha! ha!" was heard in the pine near and down came a crow; after peering cautiously around, it picked up one of the pieces and flew to a tree a few rods away with its prize. In three days they were so fearless they would fly down and eat shelled corn. I have seen three down at once. They always announced their coming by the same high-pitched "ha! ha!" No birds are grafters. As soon as the fields began to clear of snow they ceased coming to be fed.

Our latest "find" is an albino junco that came down on April 12th with several of its slate-colored mates. We have had opportunity to observe it less than three feet away, as it flies down a dozen or more times a day for grain and chaff.



Two birds in the hand are worth how many in the bush?

It is not entirely pure white, but as seen against the snow a very delicate pearly, gray white. The sharply defined breast line of the junco is in this bird faintly outlined with gray; the tail is dark gray with the exception of the white outer feathers; the upper and lower long wing feathers are white and the middle ones dark, a faint gray marking outlining each wing at least two thirds of its length. The right side is a trifle more heavily marked than the left; bill, legs, and feet are like those of the ordinary junco, except lighter and pinkish in tone.

We have not only heard it make the little jingling song of the junco but we have seen it while it was singing.

L. M. SCALES.

## THE PROBLEM OF FARM HELP

WITHIN the past few years a great many who have hearkened to the call "back to the land" and bought old farms which they have remodeled and begun to develop by modern methods, have found, to their dismay and increasing irritation, that there is a "help" problem in the country even more pressing than in the city. They find that it is almost impossible to secure good farm help who will stay on the place. Hands come, stay two weeks or a month or two months, and then, when most needed, pack up and leave. Even those that stay longer often "peter out" after a time and have to be dismissed. Indeed, the supply of farm labor becomes at times so inadequate and inefficient as to entail serious financial loss. But it is not always the fault of the help.

Not as a farm owner or operator, but as a city-bred man who for the sake of health, variety, and adventure, spent last summer working as a farm-hand in New England, I gained an intimate knowledge of the farm-hand's point of view.

I worked on two farms, one in Massachusetts, the other in Vermont, getting each job through an employment bureau where a month I had spent during a previous summer on the farm of a friend's friend in New York State was sufficient to recommend me.

The first farm was on the top of a high hill, in a beautiful location, but on very rocky soil. The men talked of plowing "out in the quarry." The farm comprised about 600 acres, more than half of it pasture land. There were three

# "FELTOID"

## Casters and Tips

will not scratch, mar, or stain hardwood floors,—are noise proof, and wear indefinitely.

"FELTOID" Casters and Tips are made of an indestructible, resilient material which serves as a cushion tread, receives and absorbs the impact, and insures Absolute Floor and Rug Protection.

Furniture and Hardware Dealers will supply you.

You just try them — and make sure that "FELTOID" is stamped on every wheel and tip. Insist on having "FELTOID" Casters or Tips put on all new furniture you purchase—it should cost you nothing extra. Send a postal anyway for booklet D. 5.

The  
**Burns & Bassick**  
Company  
Sole Manufacturers  
Dept. D. 5.  
Bridgeport, Conn.







### The Economy of IHC Gasoline Engines

IHC engine economy saves many dollars for IHC engine owners. Three points of construction are responsible for this saving.

1 The material used in building the engine is the best that can be obtained. It is easy to see how the careful metallurgist who supervises IHC engine construction adds years to the efficient service of the engine by the scientific correctness of his metal mixtures. Every day added to the life of a gasoline engine is a point in economy.

2 There is the correct speed at which a gasoline engine does its best work. The slower this speed the longer the engine lasts. IHC engines are speeded to run at the correct speed for their weight, and will develop their full rated horse power at that speed. These points make for economy.

3 Close automatic fuel regulation prevents waste. Whether running with a light or heavy load an IHC engine uses the smallest amount of fuel necessary to do the work.

The result is an engine that runs for the longest time, gives the best service, costs least per year of service, and runs at the lowest cost for fuel. That is the engine you get when you buy an

### IHC Gasoline Engine

IHC engines meet every power requirement for farms, country places, estates, shops, mills and factories. They are built in all sizes from 1 to 50-H P., in all styles; vertical and horizontal; water-cooled and air cooled; stationary or portable, and are built to operate on gas, gasoline, kerosene, distillate or alcohol. Catalogue and full information will be sent on request.

### International Harvester Company of America

(Incorporated)

25 Harvester Bldg., Chicago U S A



### Bring Out the Beauty of Your Floors

IT'S THERE. Just needs the right finish—such as only Old English Floor Wax can give—to impart the richness and lustre that made "Old English" finish famous.

It's the large proportion of hard, imported wax in Old English that does it. It also makes a pound of

### Old English Floor Wax



go farther than a pound of ordinary wax. Old English is especially durable. When it does show wear, you need not re-wax the whole floor. Just rub a little wax on the worn spots. Old English Floor Wax gives a finish to floor, furniture and woodwork which will not scratch nor hold dust. Makes housework a lot easier. It's not expensive, either—a 50-cent can will do the floor of a large room. Why don't you try Old English on your floors?

C. L. 4-12

### Send for Free Sample and Our Book

"Beautiful Floors—Their Finish and Care"

You'll find lots in it to make housework easier. It tells about

- Finishing New Floors
- Finishing Old Floors
- Hardwood Floors
- Pine Floors
- Cleaning and Polishing
- Care of Waxed Floors
- Finishing Dance Floors
- Kitchen, Pantry and Bathroom Floors
- Finishing Furniture
- Interior Woodwork
- Stopping Cracks
- Removing Varnish, etc.

A. S. BOYLE & CO.

Send BOOKLET and FREE Sample so I can try Old English at home.

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My dealer is.....

A. S. BOYLE & CO. 1904 West 8th Street Cincinnati, Ohio

### Refrigeration in Large Houses

The large house without its own cooling-plant is as incomplete as it would be without electric lighting. Hundreds of well-known families, a few of which are mentioned below, would not think of depending on the ice-man. Now there is no muss or bother or disappointment, and the food is kept fresh and cool and dry. Their homes, in town and country are equipped with a

This system does not rely on ice. It simply cools the air, keeping it dry, at an always even temperature. The food does not lose flavor or change appearance.



HOUSEHOLD REFRIGERATING and ICE-MAKING PLANT

With the Brunswick you do not keep the food in a heavy, moist atmosphere (which cannot help but be laden with germs), but in a pure, dry sweet air.

Very little time is required to put it into work. Your butler can devote a few moments a day, toward starting it, and stopping it. It is simplicity itself, and is unusually compact.

#### A few of the Representative Brunswick Users

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- Theodore Frelinghuysen

- Mrs. Wm. Thaw, Jr.
- Gage E. Tarbell
- Hon. Whitelaw Reid

We invite your attention—and will be glad to send full information by mail, or have our representative call, as you desire. Every Brunswick is made to fit the requirements of each user, and it is guaranteed to give results.

Brunswick Refrigerating Company New Brunswick New Jersey



"TAPESTRY" BRICK makes the most beautiful house in the world.

Costs less than wood and paint.

Our free illustrated book tells all about it.

FISKE & CO., Inc. 1780 Arena Bldg., New York



# One Hundred Masterpieces

By JOHN LAFARGE

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"hands" on the place, including myself, and the boss, a big man who had been foreman for the original owner, did a little plowing when not in town, and during the haying season did all the mowing. He was strong and capable, but seemed to have no great liking for farm labor himself. He spent a large part of his time with the boarders, improving his grammar and affecting social ease. Most of his wishes were conveyed indirectly through a Pole who was the only man who had been on the place above a month. And though instead of working with the men he went about with the air of a detective when none of them were near, to see what had been accomplished, he was never heard, so far as I could discover, to give a word of commendation.

The hours were not bad on this place, as farms go. We got up at half past five, had an hour at dinner, and were generally through for the day by half past six. The work was hard and tiring, but the food was fair, and the sleeping quarters were not uncomfortable. But with the exception of the Pole the help came and went at pretty frequent intervals. And the cause was the basic reason which can generally be found at the bottom of all real difficulties over the farm help problem. Neither the owner nor his wife showed any real interest in or consideration for the workers. The current saying was that they "had no feeling for their help."



The foreman of a Massachusetts farm—the only man on the place who had stayed over a month

The business corporation in the big city does not necessarily suffer from showing little regard for the comfort or convenience of its workers. Mill or office life is more or less impersonal, and the workers, who know that jobs are scarce, are willing to put up with a lack of consideration during the day in the knowledge that release and friends will be restored at night. In the country it is different. There the worker lives with his job day and night. There man needs man, and sees him for what he is. On the farm kindness and selfishness are unmistakable, and if the boss does not show a genuine concern for the comfort and welfare of his hands he cannot get them to do the work or even to stay on the place. If the boss is unreasonable in working hours they spend the hours of freedom in discussing his bad qualities, and stir each other up to a state of discontent which makes it impossible to get work cheerfully or efficiently done.

The Massachusetts farm was a paradise compared to the place I worked on in Vermont. This was owned by a former hotel proprietor who had retired to the country to raise Holstein cattle and apply scientific methods to farming. His farm was about the size of the other, but more of it was under cultivation. He had about thirty head of cattle, all registered stock. There were three men and a boy on the place, including the foreman, who bunked with the men and was a very good fellow. He had traveled a good deal, had had a business of his own, had lived in New York city, and had a brother who owned

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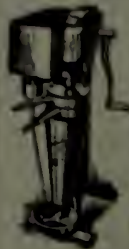
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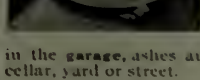
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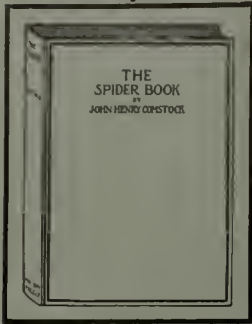
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a big garage there. He had turned farmer again to keep away from the fascinations of spirituous liquors.

Here was a typical case. The farm was owned and operated by a man who kept thoroughly up-to-date on farming problems, who got as much as \$800 for a heifer, one of whose cows had made a one-day milk record of seventy pounds, who owned a bull valued at \$3,000, and who gave his constant thought to the science and practice of farm production. Yet his sowing had been late, his haying was late, his kitchen garden almost run to waste, his harvesting likely to be delayed, and his kitchen without a helper for his wife. And the one cause for this condition of things was his failure to handle the help problem in an understanding way. In the space of four months twenty-seven men had left the place. I was told that he had got so used to having his help leave that he had a standing request at the employment bureau for all the men they could send.

A little explanation will make the situation clear. On purchasing the farm he had spent, I was told, \$6,000 on the house. In consequence the family quarters in the front were commodious, even elegant, and well equipped with all those conveniences which make life in the country comfortable. The rear of the house,



An AI farm-hand who became disgruntled and left

however, was almost exactly as it had been in the days of its Yankee owner. Not even the kitchen (which his wife had probably expected to enter only to give orders) was decently fitted up, and the quarters overhead for the help were such as they would enter only at the very latest possible moment before getting into bed. The beds themselves were old, with straw mattresses and without perceptible springs, the sheets unchanged for weeks, and the dingy toilet room such as no hand would or did use if he could help it. In the bedrooms it was impossible to stand up without danger of knocking one's head against the sloped ceiling-boards. With one exception the hands slept two in a bed, but when a second was put in the bed I occupied I changed my own sleeping quarters to the stable loft.

There were no effective screens to keep the flies out of the rear part of the house, and when the men had gobbled down their unpalatable fare they forthwith hurried to the stable to find a box or carriage seat on which to sit out the noon hour or to wait a half hour for bed-time.

I say wait purposely, for if there was no comfort or convenience for the men when their work was done there was also small time to indulge in such luxury. The getting up time was four o'clock, an hour which I know from actual observation to have been ridiculously and uselessly early, and the tired worker, who got through at six in the evening, could hardly afford not to be in bed by seven or quarter past.

The result of fixing the rising-time at four o'clock was simply to make the chores spread over a period of three hours, for breakfast was set at seven. The men laughed at three hours for chores, and could easily have done them in an hour and a half if given till half past five to

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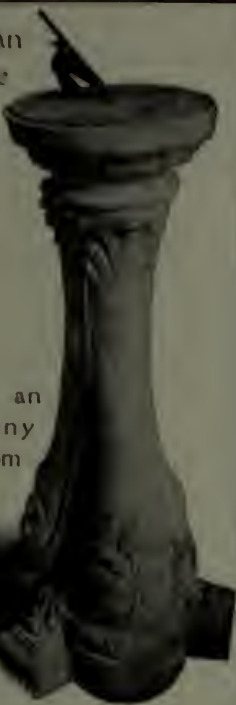
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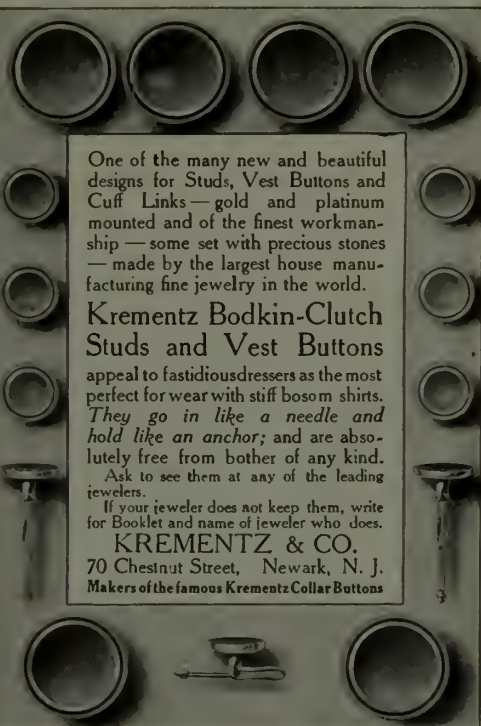
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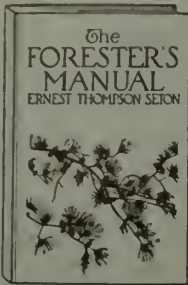
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sleep. A man, even a farm hand, does not like to get up before daylight in August, and being forced to do so without sufficient need disgruntles him.

During my brief stay on this farm I saw two experienced hands get disgruntled over the lack of consideration shown by the owner, who coupled with this deficiency in his make-up a temper not always controlled, and in each case the man became morose, sullen, and careless as to how he did his work. One left before I did, and the other, I suspect, did not tarry very long thereafter. In such cases the man will simply endure in sullen silence, without voicing a complaint, and at the first criticism of the boss demand his pay and quit. Labor unions demand an improvement of working conditions, farm hands never. They judge the job and stay or quit accordingly. Many a farmer fails to keep his men because he interprets their silence as satisfaction.

My experience on these two farms, and especially on the last one, showed me that if a farm operator would get and keep good men he must first of all imagine himself in their places. He must get rid of the idea that the farm laborer is a son of the soil who has never been out of the backwoods and therefore does not know what modern convenience is. The average farm laborer to-day has traveled a good bit, and however humble may seem his lot he is pretty intelligent and has an excellent notion of how things should be done. More often than not he has been a city worker, many times a skilled mechanic, who has turned farm hand to be free from temptations to squander his money, or for some equally excellent reason. Therefore the owner must see that the disadvantages of doing heavy manual labor in an isolated spot far from the haunts of men are compensated for by reasonable hours, good food, and a proper provision for the enjoyment of "off" time.

The city worker of the farm hand level, however hard he may labor with head or hand during the day, is able to look forward to a pleasant evening. The farm owner must provide a substitute for this. If he wants to keep his men he can make no better investment, often, than the erection of a cheap out-building for their use. Such a structure, containing a rough living room provided with chairs, table, pen and paper, a few magazines, and a shower bath and coat room adjoining, would change the whole face of the help problem on the farm. It would be conducive not to loafing, but to such an anticipation of rest as would turn the working hours from drudgery into willing toil. The hand who after supper or on Sundays has to wander about the place, to settle irresolutely at last into an uncomfortable, hard spot beneath a tree where he can be free from flies or heat, begins to wonder what good it does him to work like a slave all day if his time off gives him no delight. Often, after spending Sunday in such a fashion, a hand has got up wearily and said to me that it had been "a hell of a day."

Farm owners should never forget that the men they hire are human beings, tempted in most points like themselves. When their men quit without warning they should ask themselves whether they would probably not do the same thing under the circumstances. **ROBERT PIERCE.**

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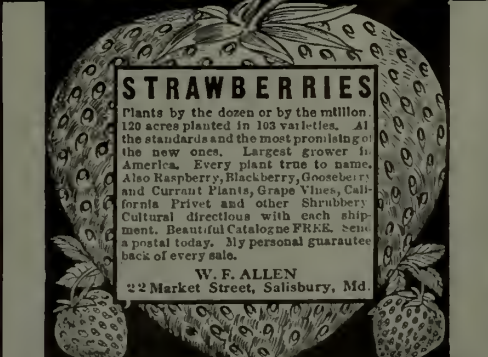
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(Out of some hundreds of possible ones that will occur to every person who has bought country or suburban property.)

1. *When you find a place that interests you, get an option.* You can then study it at your leisure without the disagreeable experience of having the price jumped 50 per cent. by an over-acute seller who sees you're "landed."

2. *Study not only your own piece of land, but the whole neighborhood.* Note the direction of growth of the nearest town and the kind of people who are nearest to you. The character of a suburban community is plain to read, long before it actually hardens into a settled thing. Be sure nobody can cut off your choicest view by building on adjacent land; also that new streets or changes of grading will not throw upon your land a flood of water in the spring rain storms. Don't forget that it's a favorite trick with unscrupulous little real estate operators to get a piece of land adjoining a nice new house and then let it leak out that they plan to start an Italian colony there. That old blackmail "gag" has added 50 per cent. to the value of more than one piece of acreage.

3. *Buy at the start all the land you're going to want — and a little more.* Your building and improvements are probably going to raise the value of adjoining property. Better raise it for yourself than for the other fellow — or even against yourself; for land hunger is a progressive disease. You'll start with four acres and wish you had forty before you're well settled. And the only profit you'll ever make will be on the land.

4. *If you're near the city, have a careful search made for possible assessments, past as well as future* (for sewers, paving, street openings, etc.) They're very disconcerting sometimes and may double the cost of a small property. Also be sure some future change of street level will neither leave your house on stilts or in a hole. Have your title insured and you can sleep easy o'nights.

5. *Don't haggle over a few dollars when you find what you want.* If it's right for you it'll be hard to duplicate; and land near any big city at anything like a fair price is a pretty sure thing for a long pull.

6. *Buy yourself a home first — an investment only as a secondary consideration.*

7. *Remember you'll be lucky to get back the cost of your building and improvements.* At the end of five years you should estimate that the increase of value in your land ought to be enough to take up perhaps 50 per cent. of what the building cost. And never forget that real estate is a slow asset; if you have to sell quick you'll have to sacrifice somewhere from 10 per cent. to 50 per cent. of your paper value.

8. *Rent a year, if possible, before buying a ready-made house.* You'll have a lot more idea at the end of that time what you're spending your money for. Such things as poorly built houses and mosquito neighborhoods have been known.

9. *Keep in mind taxes, water, repairs, and interest when comparing buying with renting.* Not to mention the insatiable desire to spend money on improvements which is bound to attack you when you contemplate a place which is your very own.

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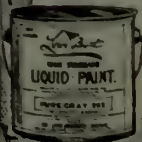
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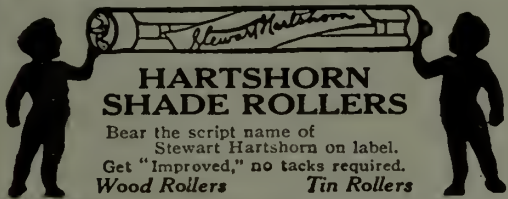
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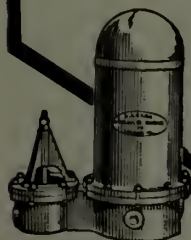


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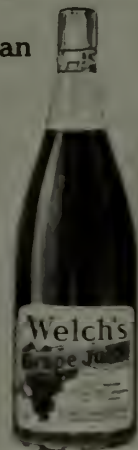
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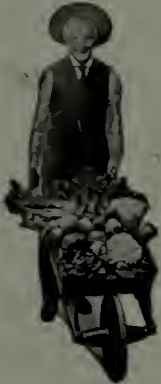
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## A WORD FROM THE EDITORS



A LITTLE over ten years ago this magazine was established to serve the needs of an increasing class of Americans who, as the publishers believed, were turning their attention seriously and unmistakably

toward country living. This intangible movement, then in its infancy, has since swept over the nation in a quiet but resistless wave, causing the people of this country to alter their views of life in countless particulars, and producing, as we believe, a more wholesome and hopeful attitude toward life in all its phases.

The movement has produced progress in many lines, and has entered into the realms of business, science, and sport. The inter-relationship of all these things is extremely interesting, and it is to set this thought before our readers that we have planned an Anniversary Number to appear April 15th, and have filled it with brief



The courtyard of the Country Life Press will be ablaze this spring with a beautiful collection of irises

but authoritative articles on every important phase of country living. These include the following:

"The Spread of the Country Life Idea," by the Editors. How it has caught the fancy of the American people, and how it has manifested itself during the past ten years.

"The Autobiography of COUNTRY LIFE IN AMERICA," by Frank N. Doubleday. The remarkable growth of the magazine and its relation to the broad movement.

"True Progress in Country Life," by L. H. Bailey. What it is and what it consists in. The need of good workers. A point of view on the situation.

"Have We Progressed in Gardening?" by Wilhelm Miller. A detailed and categorical review of the past ten years and a prognostication for the future.

"A Decade of Domestic Architecture," by Thomas Hastings.

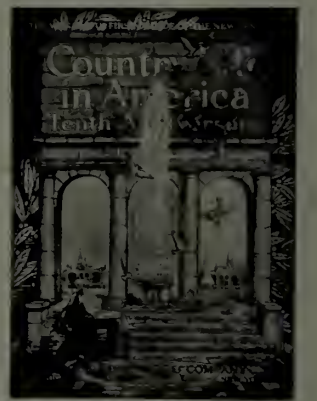
We have outgrown at last the Victorian period of bad taste, and are now returning to the natural development of classic styles and the traditions of our forefathers.

"Progress in American Sport," by Walter Camp. A record of the achievements of the past ten years in various branches of sport, and an expert's opinion of the tendencies.

"Plant Breeding During the Past Ten Years," by Leonard Barron. Some of the marvelous achievements in the improvement of plants, vegetables, and flowers, not by "wizardry," but by the practical application of scientific methods.

"American Forestry—a New Movement to Meet a Growing Need," by U. S. Chief Forester Henry S. Graves. What the nation, state, and individual can do.

"Dodging the Deadly Habit of Industry," by Woods Hutchinson, M. D. The theory of play and work and rest, and what it means in the



The tenth anniversary cover

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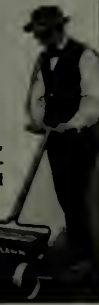
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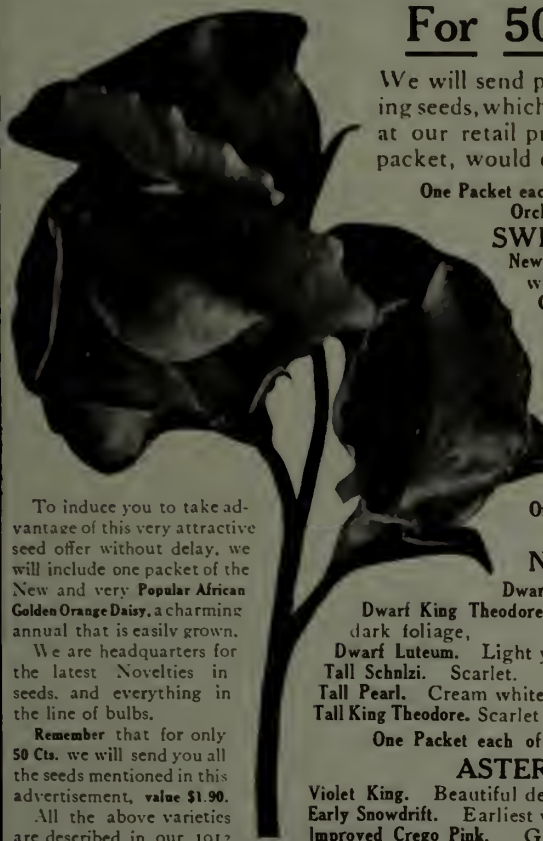
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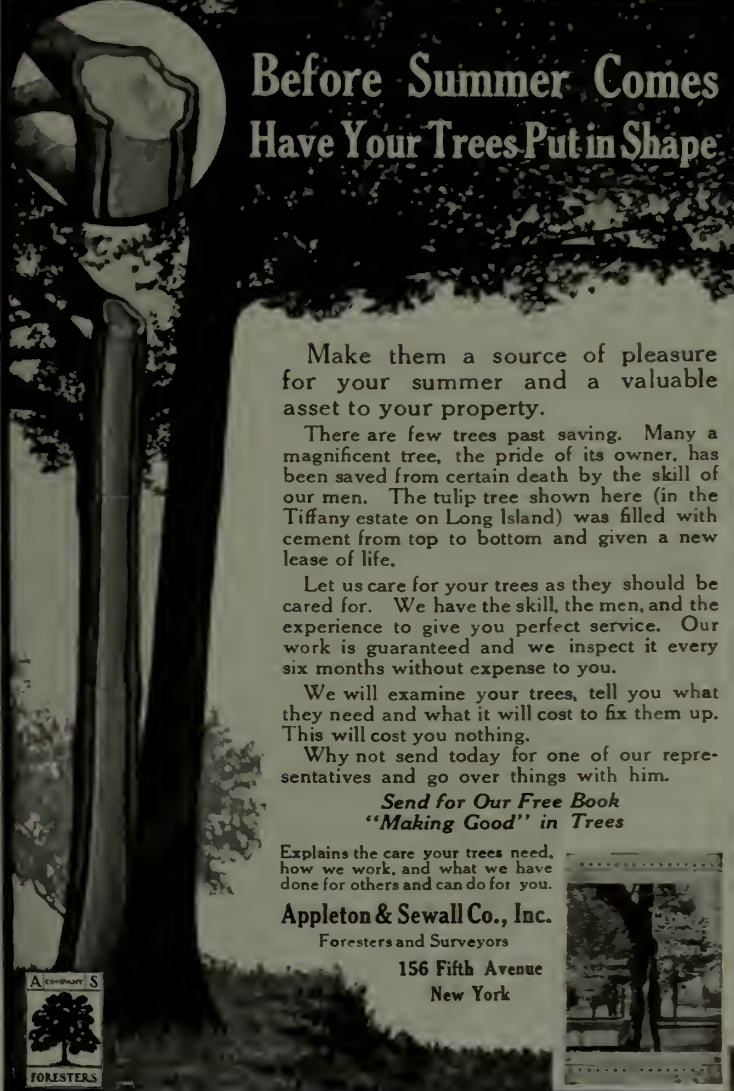
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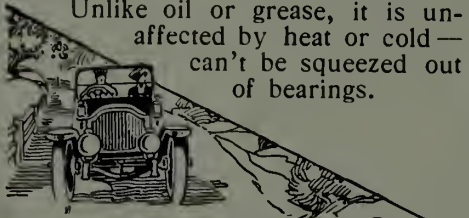


# The Lubricant for Your Car

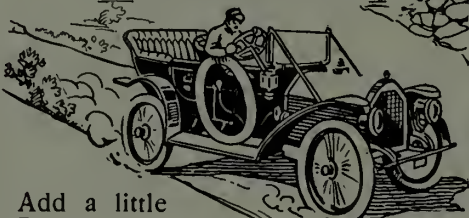
Flake Graphite is acknowledged an ideal lubricant, because it produces on bearing surfaces a marvellously smooth and durable veneer that actually holds the metal surfaces apart. Friction is reduced to a minimum—bearing surfaces can't cut or seize—when you use Dixon's Motor Graphite, a wonderfully unctuous graphite of extraordinary softness and lubricating qualities.

Dixon's Motor Graphite increases the lubricating value of oils and greases. Only a very small quantity, added regularly, is necessary to keep bearings in perfect condition.

Unlike oil or grease, it is unaffected by heat or cold—can't be squeezed out of bearings.



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rhythm of life. Are we, as a nation, learning the therapeutic value of fresh air and play?

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"The Government's Work in Animal Husbandry," by Dr. A. D. Melvin. A résumé of what the Bureau of Animal Industry has accomplished in ten years in improving our horses, cattle, and poultry.

"The Past, Present, and Future of Wild Game Conservation," by William T. Hornaday. Shall we exterminate more species of birds and animals? What are you going to do about it?

"The New Agriculture," by W. M. Hays, U. S. Assistant Secretary of Agriculture. A brief résumé of the remarkable advance in agricultural methods and results in this country during the past ten years.

"Tendencies in Suburban Development," by Clifford B. Harmon. The huge army of American suburbanites have been demanding better living conditions and are now securing more beautiful surroundings.

"What Ten Years Have Done for Photography," by Wilfred A. French. Some of the improvements that have helped to make the camera a popular adjunct of outdoor life.

"The 1912 Automobile and its Elder Brother of 1902," by Julian Chase. The development of the modern motor car from the old gasoline buggy, and what it has meant to American country life.

"The Great American Apple," by William P. Stark.

"The Boy Scout Movement," by Alfred F. Loomis.

"The Growth of the Nature Study Idea," by Julia E. Rogers.

The Departments in this issue include: Home Furnishing and Decorating, Power Yachting, The Automobile, Garden and Grounds, Gardening Under Glass, Stable and Kennel.



The building in winter



### Recent Writings

**How to Skee.** By Henry Hoeck, translated into English by Adelrich Benziger. Outing Publishing Co., New York. Illustrated with diagrams; 32 pages; price 50 cents postpaid.

A practical handbook containing instruction in elementary and advanced skeeing, together with valuable hints for equipment and dress.

**Boat-Building and Boating.** By D. C. Beard. Charles Scribner's Sons, New York. Illustrated by the author; 190 pages; price \$1 net.

This latest work from the prolific pen of Dan Beard is full of clever hints for the boy who is nautically inclined. How to build boats, canoes, logomorans, how to sail a boat, to paddle a canoe, to make a portage, tie difficult knots—these are but a few of the things which make this a treasure for any active boy.

**The Feeding of Stock and Crops.** By A. D. Hall, M. A., F. R. S., Director Rothamsted Experiment Station. E. P. Dutton & Co., New York. Illustrated; 298 pages; price \$1.50 net.

That the science and practice of farming are ever becoming more and more closely welded is again emphasized by Doctor Hall's admirable discussion of the care of agricultural "materials." He has achieved more than a thorough scientific survey of the co-relation of soil, crop and animal compositions and their methods of obtaining and supplying food. He speaks mainly for the less-technical and non-scientific reader. He emphasizes, and convincingly shows the universal interest and value of the science



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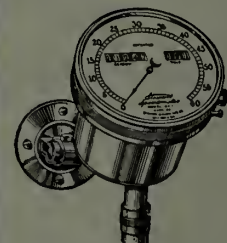
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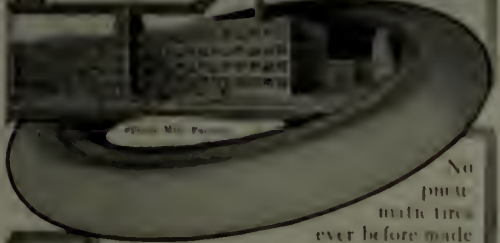
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You can ascribe all these constructive advantages to the fact that the Hupmobile organization has always been held practically intact.

The chief engineer, E. A. Nelson, designed the original Hupmobile runabout — whose priority in its own class has never been seriously disputed. The department heads, and the skilful workmen who have executed his designs, have remained with us in our progressive development.

We should be glad to send to you 4 1/2 x 8 1/2 photogravures and full description of the handsome Long-Stroke "32".

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of nutrition. He urges the most effective, economical and beneficial methods of soil management, tillage, crop fertilization and animal feeding, upon the farmer on the land, forcing home accepted theories and approved principles by citing actual experiments.

**Rugs of the Orient.** By C. R. Clifford. Clifford & Lawton, New York. Illustrated; 109 pages; index; price \$3.

This volume is distinguished from other works on Oriental rugs by its wealth of tabular matter for ready reference. To distinguish one type of rug from another by means of weave, design, and other characteristics is a task which this book lightens in a marked degree. It is designed to be of equal service to the commercial buyer, the amateur, and the connoisseur.

**The House-Fly.** By L. O. Howard, Ph. D. Frederick A. Stokes Company, New York. Illustrated; 312 pages; price \$1.60 net.

The most important book which has yet appeared about this dangerous pest which so widely spreads the germs of typhoid and other diseases. The life history of the fly as here told is very interesting, and still more valuable are the exhaustive and practical chapters on remedies and preventive measures, and the suggestions for organized work by communities.

**A Fisherman's Summer in Canada.** By F. G. Afalo. Imported by Charles Scribner's Sons, New York. Illustrated; 147 pages; price \$2 net.

An illuminating glimpse of Canada's rushing rivers, gleaming lakes and untrodden forests from the viewpoint of an enthusiastic follower of Izaak Walton. The three months' trip so interestingly described includes fishing for salmon and grilse on the Miramichi and Metapedia, the more adventurous quest of the tuna in the bays of Cape Breton, and some good sport with muskallonge and black bass in Georgian Bay.

**Fundamentals of Agriculture.** Edited by James Edward Halligan. D. C. Heath & Co., Boston. Illustrated; 504 pages; price \$1.20 net.

An important addition to agricultural literature in the form of an elementary text-book primarily for college use. Each chapter has been written by a specialist in his field so that the information is not only scientific and authoritative but also concrete and specific. The arrangement is such that the subject is logically developed, and, better still, it is not treated sectionally. That is, the viewpoint is that of the whole country. The authors are from seventeen states and the United States Department of Agriculture is represented by four collaborators.

**Madison, a Model City.** By John Nolen. Madison Park and Pleasure Drive Ass'n., Madison, Wis. Illustrated; 168 pages; price \$1.

A comprehensive plan for the future growth of Madison, Wis., in the most beautiful and practical manner as the capital of the state and the home of its university. It is a very valuable treatise for landscape architects and men in various posts of public service. While Madison is exceptionally rich in natural material important to its beautification, and so, thanks to Mr. Nolen, may establish a new standard for city making in the United States, this book preaches most of the good principles of development which are more or less applicable to any city.

**Motor Craft Encyclopedia.** By B. E. Elliott and P. R. Ward. Motor Craft Encyclopedia Co., Cleveland, O. Illustrated; 150 pages; price \$1 net.

Compactly arranged in handy pocket size, with readable sized type and a generous supply of diagrams and half tone illustrations, this little work imparts a full measure of information, explanation, and advice on the science of motor boat anatomy and pathology. The novice will find a systematic study of the book an adequate introduction, while to the graduate, it is useful as a work of reference. Particularly valuable is the advice to prospective purchasers of second-hand boats, while the chapter on engine trouble with the "Marine Engine Trouble Chart" adopted from Motor's Trouble Chart will undoubtedly divulge to many several secret mysteries of the mettlesome internal combustion engine. The book is slightly deficient on a few points, particularly with regard to the make and break form of ignition, which is treated cursorily and without diagrams. A complete index would be a valuable additional asset.



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"Throw-on" overcoats ready for town or country service—in the Wetzel Sporting Department.



EXPERIMENT STATION NEWS

CONDUCTED BY W. C. O'KANE

[EDITORS' NOTE.—In this department we shall publish some of the most important news from the National and various State Experiment Stations that develops from month to month—results of scientific experiments, discoveries and inventions, and reports of investigations, etc., etc. Mr O'Kane is Entomologist at the New Hampshire Station, at Durham, N. H.]

ORCHARD HEATING.—Artificial heat for orchards to protect them from frost at critical periods is now thoroughly demonstrated as a practical plan, wherever conditions are favorable for such treatment.

In Oregon much attention has been given to this subject, both on the part of the state experiment station and by the growers. The sources of heat used include piles of waste wood, heaps of manure, and special orchard heaters burning coal or oil. There is much advantage in creating a dense, heavy smudge that will blanket the entire block of trees; hence such materials as give off much smoke while burning are preferred. Small heaps of manure, piled at frequent intervals and soaked with oil just before firing have given rather satisfactory protection. On the whole, however, the special heaters burning low grade oil seem to meet with most favor.

The fuel used in the West in such heaters is a heavy distillate with an asphaltum base. In central and eastern states the oil is somewhat different in character, and on the whole more satisfactory. Large storage tanks to hold a reserve supply of oil are desirable. The best type is a concrete tank built into a side hill so



Making ready for a fire in an Oregon orchard. A story of a fight with frost in Colorado was published in March 1 issue

that it can easily be filled. From the bottom of the tank, on the downhill side, a pipe is led to such a point that tanks or barrels on a wagon or a sled may be filled by gravity. This arrangement also permits drawing off water or sediment from the bottom of the tank before beginning the work of filling the heaters.

The heaters are placed at frequent intervals throughout the orchard, the number used varying from fifty to one hundred and fifty to the acre. Each heater holds four to five quarts of oil, and will burn four hours or more on one filling, if the oil is free from water. The firing of the heaters must usually be done promptly, and for this purpose many growers now make use of a torch made of gas-pipe fitted with a wick at the lower end, and a can of gasolene, a small quantity of which is poured on the oil in the heater.

Electric alarms are obtainable that ring a warning when the temperature drops to a certain

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## Locks and their Uses

A lock is as strong as its bolt—but its security is entirely dependent upon how well its mechanism is protected against attack through the keyhole.

If any one of a dozen keys will open your lock, of what use is its strong bolt?

If the merest tyro and sneak thief can pick your lock in two minutes, of what use is your lock?

These are the reasons why all the ingenuity of lockmaking has led, not in the direction of stronger locks, but in the search for a mechanism which would absolutely prevent the lock from being opened by any means save its own key.

### Warded Locks

The simplest form of protecting the lock mechanism is found in the warded lock. Projections in the keyhole prevent the entrance of any key not having corresponding grooves in the key.



Keyways of Warded Locks

Further projections inside the lock prevent the key from turning, unless it fits exactly, but the number of variations practical in the shape of the key is so small that generally one out of every four is a duplicate.

The warded lock key of your next door neighbor is quite likely to fit one of your locks.

### Lever Tumbler Locks

Then comes the lever-tumbler lock in which a greater number of key



Interior of a Lever Tumbler Lock

changes and much greater security is obtained by using a number of flat tumblers. This type of lock is largely used for inside doors in residences, for which purpose it is well adapted. It offers satisfactory security against picking or accidental interchange of keys.

### Cylinder Locks

The first lock to offer an absolute key control and a perfectly protected mechanism was the Yale Cylinder Lock, now known as the symbol of lock security throughout the civilized world.

Each Yale Cylinder Lock requires a different key. No other can possibly open it, and no record exists where a sneak thief has succeeded in picking a Yale Cylinder Lock.

For the interior of your house, it does not matter much whether the key to the dining room will also unlock the nursery door. For that reason interior doors in most houses are fitted with a good grade of lever-tumbler lock. Care should be exercised, however, not to choose too cheap a lock, as it will quickly become useless and have to be replaced.

In case it is desired to have additional security, it is always very easy to add a Yale Cylinder Night Latch to a door. This

is a form of Yale Cylinder Lock in which the bolt is automatically shot, thus possessing the advantage of not requiring the insertion of the key in order to lock it.

The Yale Cylinder Night Latch, in a wide variety of forms, is also frequently added to outside doors, kitchen doors, cellar doors or any door



A Yale Cylinder Night Latch

where access to the house might be made. The Yale Cylinder is also incorporated into even the most elaborate designs for door sets, such as are used on outside entrance doors.

There are Yale Cylinder Locks for sideboard drawers and cupboards, pantries, closets, bureaus and desks, for trunks and boxes. You will always find a Yale Cylinder Lock for your purpose.

### Padlocks

The mechanism of the Yale Cylinder Lock is also found in padlock form, and many of the best automobiles are today completely equipped with Yale Cylinder Locks before they leave the works.

Another great advantage offered by the Yale Cylinder Lock is found in the master key. You may have any number of Yale Cylinder Locks, for each of which a different key is required by your servants, or employees, and yet you may carry one key which will open every lock.

The highest type of lock security is found in the Yale Bicentric Lock. It contains two separate pin-tumbler mechanisms—one for the individual key and one for the master key.

This is perhaps the most wonderful of all the forms of the Yale Cylinder Lock, as it not only offers perfect security, but it also fixes the responsibility for the contents of any room or building or box upon the man who carries the key.

No other key will open that particular lock, and yet the owner of the master key may make an inspection at any moment without any warning.

This also does away with the necessity for carrying a huge bunch of keys, a service which is greatly appreciated by every man.

It must be remembered that lock security is exactly what the words indicate. The ordinary door may be battered in or broken from its hinges, but this is not the method pursued by sneak thieves and burglars. The success of their operation depends entirely upon stealth and the absence of noise, which is sure to lead to their discovery.

This is all the more reason why it is essential to have your outer doors protected by Yale Cylinder Locks. They cannot possibly be picked or false-keyed by a sneak thief. He is apt to give up the job in disgust the moment he sees the name "Yale" on the key plate of your door. That little word is in itself almost an insurance against theft. The thief knows only too well that the one way to get by a Yale Cylinder Lock is to break down the door, and to this he never resorts.

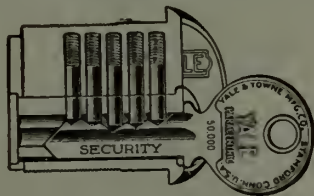
Most helpful in the selection of locks and hardware of all kinds will be our little book entitled "Yale Hardware for Your Home." We shall be glad to send you a copy free if you will send us your name.



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A Yale Cylinder cut open to show how the key when inserted sets the pins so the bolt may be thrown



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Like the Italian garden, the Japanese has certain architectural features—quaint wooden bridges, stepping stones, stone lanterns, stone or bronze deer, dogs and cranes, each having special significance.

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in the planting, with the result that the larger size kernels show a promise of a gain in yield.

Elaborate milling and baking tests have been conducted with forty-one varieties of wheat. Loaves were prepared and baked under identical conditions, using electrical fermentation cabinets and ovens. Interesting variations were found in the volumes of the loaves made from various varieties of wheat. Thus, Extra Early Windsor gave a loaf averaging 1,495 cubic centimeters, while Hickman averaged 1,825 cubic centimeters, the other varieties running all the way up and down the scale between these two figures.

In a general average of results, considering both yield per acre and the milling and baking tests, the Station finds that up to date the best varieties of wheat are Valley, Nigger, Gypsy, Hickman, Perfection, Buda Peth, Fultz-Mediterranean, Poole Selection 6545, Gypsy Selection 6100, and Fultz Selection 5310.

**SWEET PEA STUDIES.**—Extended studies of sweet peas are in progress at Cornell University. An interesting phase of the experiments concerns the relative results of fall and spring plantings. Naturally much depends on the nature of the season in any given year, but so far as the experiments have gone excellent results have been secured with fall plantings.

Countess Spencer planted in the latter part of October germinated well and appeared above



Sweet peas planted in October in full bloom the following June

ground, but unfolded no leaves. A mulch was applied, which was allowed to remain until fairly settled weather had arrived in the spring. The vines were in full blossom by the last of June. Seed of the same variety planted in March did not reach full bloom until two weeks later.

**A DISEASE OF YOUNG CHICKS.**—Further experiments on bacillary white diarrhoea of young chicks have added important facts to the data already published. The following conclusions have now been formulated:

Eggs from infected hens contain the organism in the yolk;

Chicks from infected eggs have the disease when hatched;

The disease is often spread among very young chicks through infected food and water;

The organism does not spread from chick to chick after they are four days old;

The female chicks that survive probably carry the organism indefinitely, and transmit it through the egg.

**RABBITS AND FRUIT TREES.**—The meek but festive rabbit exacts from our fruit growers an annual toll of many thousands of promising young trees, girdled and killed. A summary of experimental means of control to date shows some half-dozen measures of value, two or three of which may be combined to secure complete immunity.

The trunks of apple trees may be painted with pure white lead and linseed oil—not prepared paint, which usually contains a dryer that would be injurious. Lime-sulphur may be substituted for this; or one may make up a wash consisting of one gallon of water, one pound of soap, two ounces of carbolic acid and a little vermilion red. Traps are of value. So are poisons, the best of which consists of one-third part borax, one part sulphate of strychnia, one part syrup and ten parts water. Small twigs should be dipped in this and distributed about the trunks of the fruit trees. Thorough protection is afforded by wrapping the trunks with wood veneer, or with fine screen wire.

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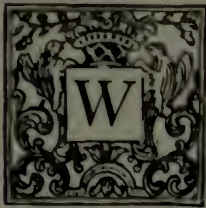
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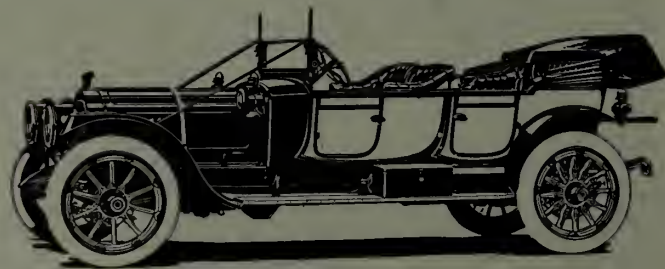
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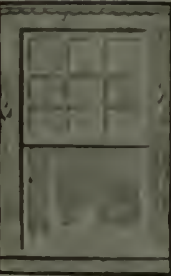
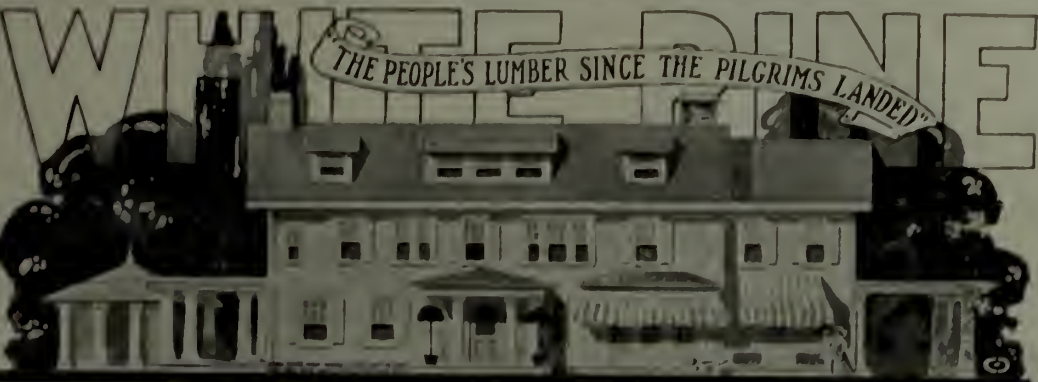
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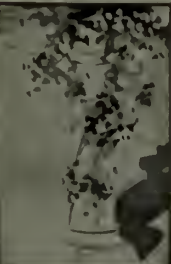
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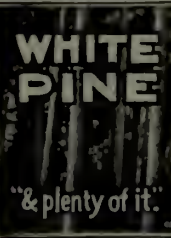
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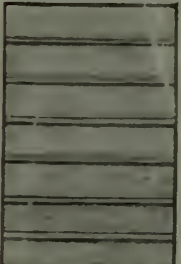
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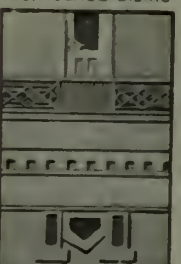
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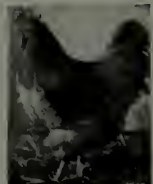
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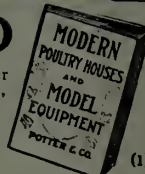
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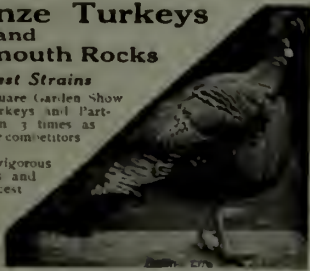
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4  
4  
4  
4  
2 7/8  
2 7/8  
2 3/8  
2 3/8  
2 3/8  
1 7/8  
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	MILK	BUTTER
Best record	14,373 lbs. 3 oz.	1,005 lbs. 11 oz.
Best five records average	13,388 " 8 "	860 " 10 "
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Best five 3-year-olds average	11,804 " 10 "	778 " 12 "
Best ten 3-year-olds "	10,409 " 15 "	680 " 3 "
Best five 2-year-olds "	9,970 " 15 "	643 " 8 "
Best ten 2-year-olds "	9,387 " 15 "	604 " 13 "
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**Joy's of the Road.** Compiled by W. R. B. Browne's Bookstore, Chicago. 104 pages; price, \$1 net.

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**Home Waterworks.** A manual of water supply in country homes, by Carlton J. Lynde, Professor of Physics in Macdonald College, Quebec. Sturgis & Walton, New York. Illustrated; 270 pages; price, 75 cents net.

This volume belongs to an excellent series of little books edited by Ernest Ingersoll called "The Young Farmer's Practical Library." It deals with the value of water indoors, kitchen equipment, sources of water supply, standard types of pumps, syphons, methods of pumping, water power, plumbing, and sewage disposal.

**The Lore of the Honey Bee.** By Tickner Edwardes. E. P. Dutton & Co., New York. 196 pages; price, 50 cents net.

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**Automobile Catechism.** By Forrest R. Jones, M.E. Ex-President of the Manhattan Automobile School. The Class Journal Co., New York. Illustrated; 264 pages; price, morocco bound, \$2.50 net.

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**What England Can Teach Us About Gardening.** By Wilhelm Miller, Ph. D. Doubleday, Page & Co., Garden City, N. Y. Illustrated; index; 359 pages; price, \$4 net.

In 1908 Dr. Wilhelm Miller, horticultural editor of COUNTRY LIFE IN AMERICA and *The Garden Magazine* was sent to England to study English gardens and gardening, with a view to discovering the causes of English garden excellence, and methods by which the most satisfying English effects might be produced in America with American materials. The primary result of this tour was a series of articles in COUNTRY LIFE IN AMERICA in 1909 on "Lessons from English Gardens," and a complementary series in *The Garden Magazine* on "English Effects and American Materials." These two series of articles have now been gathered together, rearranged, revised, and published in book form. For people who really care about



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The Lure of the Garden. By Hildegard Hawthorne. The Century Co., New York. Illustrated; 259 pages; price, \$4.50 net; postage, 28 cents.

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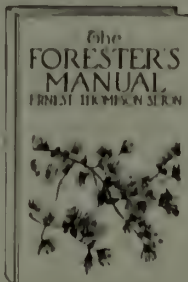
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# THE TALK OF THE OFFICE



"To business that we love we rise betime  
And go to 't with delight."—*Antony and Cleopatra*

## LETTERS

We wonder if so many interesting letters come to men in other sorts of business? Perhaps publishers are especially favored by the confidences of people whom they have never seen?

It has very often been said that almost anybody can edit a periodical better than the editor, and make a fire better than the fire-maker. That this is a true statement is proved by thousands of letters which come to us intimating that the writer is better able to judge of the literary value of some things than Doubleday, Page and Company.

For instance:

I see that you are publishing with success a novel by . . . which you say is in a new field of fiction, etc., etc. . . . All this indicates how narrow is your viewpoint. Simply because this author has become one of the "inner circle" she could write the poorest stuff and you would publish it with avidity and throw away dozens of other books in every way its superior. . . . I am sending to you by express the manuscript of a book which some people in our town have told me is in every way vastly superior to any book written by . . . whose praise you sing so long and loud.

The question is will you be able to recognize ability when you see it or are you blind to the merit of an author just because he is unknown?

This form of letter is duplicated a hundred times, and we could stand it better were it not for the fact that with them come manuscripts of sometimes a 1000 pages and an average, we should say, of from 400 to 500 pages of typewriting, representing months and often years of work on the part of their authors.

Of book manuscripts alone, Doubleday, Page & Company return from ten to a dozen a day representing for the most part, we regret to say, a pathetic spectacle of time wasted.

Here is a manuscript reader's letter to show the other side of this difficult question:

I have been thinking, and referring again to my report on No. . . . a novel by . . . which I faint-heartedly recommended for acceptance; and which recommendation I now wish to withdraw. Deliberate reflection has caused me to realize that no real good can come from publishing this book, and I am frank to admit that I recommended it because in execution it is better than hundreds I have been so laboriously reading. This deadly average of mediocrity I am convinced has almost upset my judgment as to the standard which I am perfectly aware should be moderately high. Not so high that a newcomer should be held up to an impossible standard but not so low that a book should not show in some way — in sincerity, imagination or literary power — that it may take some part in the world's affairs if published. The Ms. No. . . . is simply commonplace; only a little less commonplace than the general run, and that is all that can truthfully be said of it.

This office memorandum is printed here not because it is in itself of interest but to show how the first instinct is toward acceptance until

most publishing houses accept more books than they can properly and effectively handle.

To complete the circle of this correspondence concerning manuscripts and book publishing we add two paragraphs from a bookseller's letter:

I understand from a talk I had with one of your travelers — that you propose to publish a fewer number of books and push more vigorously those that you do issue. Your new resolution pleases me because all publishers in the last ten years have increased the number of books — especially mediocre fiction — extraordinarily, apparently in the hope of getting a "best seller." Do you realize that this has gone on to such a degree that even salesmen often tell us that they cannot be sure of such and such a volume and show no enthusiasm in selling it?

In my opinion publishers should not accept any book which they cannot earnestly and honestly back as worth while; poor books when sold injure the buying activities of readers — you "kill the goose," etc. You will make enough mistakes even when you feel confident that you have the real thing and I hope you'll stick to your guns and bring up the quality.

But all letters are not pessimistic. As we write we have before us a sheaf of twenty-three letters which have accumulated in a few days; all of them about Mrs. Corra Harris's book "The Recording Angel."

Three of these refer to George Eliot.

For instance:

Not since the days of George Eliot has there been anything so good. Perhaps you recall the words she puts into the mouth of one of her radical speakers in *Felix Holt*. After all, though, does it not go to prove that if we are to have preaching, that preachers should be removed from their present status of dependents and made economically free of their environment?

Here is another:

I have just finished reading "The Recording Angel," and I cannot resist the temptation to write you how much I enjoyed it, as well as your other stories. No doubt you wish that I were gifted with a will strong enough to say, "Get thee behind me," to a temptation fraught with such terrible consequences to an unfortunate and helpless victim.

Now that the preliminary apologies are out of the way, let me say what immense pleasure I have obtained from all your work, from "The Circuit Rider's Wife" down to (or up to?) "The Recording Angel." The stories themselves have been interesting, vastly so! But it is your "asides," your observations upon human, and Divine, nature, and things in general that have delighted me most. The very audacity of some of these, the originality of all of them, leave me almost gasping with surprise and pleasure.

A dozen pages of this magazine could be filled by letters about Mrs. Gene Stratton-Porter's books whose fame extends in an ever widening circle. In the month of May we printed and sold over 100,000 of the new edition of "The Girl of the Limberlost," and that these books touch the hearts of a great multitude, brightening and helping, is made clear by the dozens of letters which come like this one:

It is difficult to speak of the work of Gene Stratton-Porter and not to call upon all the superlatives of

praise in the language. "The Girl of the Limberlost" is a delightful book: the kind of book that brings a pleasant mistiness to your eyes and a lump in your throat which makes you feel deliciously sobby while you are laughing; and if you don't know and value that sensation you miss much.

"Freckles," by the way, has gone on the stage, and will get into the big cities this fall.

Another class of letters comes to the service department which answers, after close study, letters about "How to buy a farm," "How to select investments," and the thousand and one queries about the "Garden." We hope these answers do some good in the world. The letters are carefully read, and information sought by experts, but often they ask questions beyond us, like this one:

I am about to get into trouble and I am going to ask you to help me out. Some of my neighbors differ in the time to plant and how to plant. They say the time to plant potatoes is in the "dark of the moon," when the beginning is; some say in "arms"; some in "feet"; some one place and some another. And other garden seeds the same — also setting out trees? Some say the "dark of the moon" from the new to the full; so please give me your ideas in regard to the moon and its signs and what effect it has on planting.

Here is a lawyer on "The Harvester," by Gene Stratton-Porter:

From the fact that I am a lawyer, my palate for modern fiction may be a bit musty, from my general habit of reading law books. Perhaps for that reason I am very skeptical concerning modern fiction also, but "The Harvester" is so superior to the general run of literature that I could not withdraw from the pleasures of its pages until I had exhausted what each contained.

You have created the ideal superman whom our friend, Shaw and other dilettanti have experimented with to the public's wonder. I know of no character in fiction endowed with such simple nobility and wonderful sweetness as the one you have created. I do not know a single book that is calculated to do more good to our present-day warped ideas of life and manhood; and I predict that its influence will be strangely felt by each and every one of its readers, *prompting them to cleaner ideals.*

From a woman reader in Rangoon, Burma:

After reading the book I thought I would write and ask you to come to Burma. We have such a wonderful little country, so rich in everything, vegetation, birds, people, rubies, pearls. I am sure you would want to stay a long time if you come, and I would be happy to be of any service to you.

A Readers' Service Letter:

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DEAR SIRS:—

Will you please tell me the proper rations for these animals:

Tame fox, pigeons, horses, pigs, geese, trout,\* and the amount of seed and the average yield of all crops included in these rations which could be successfully grown in New York or Missouri.

FROM A READER OF COUNTRY LIFE.

P. S.—If you don't mind tell me the current price of each animal or eggs of the birds.

W. H.

\*in stream where they have not enough food.



"Elmhurst, handsome, spacious, historic, dominating one hundred and twenty acres of timbered beauty."

# ELMHURST FILMS

BEING SOME IMPRESSIONS OF AN UNUSUAL SCHOOL

BY GRACE WILLARD



"The lake is a gem."

**I**NDOORS we were gay, hickory burned. There were lilacs and music. And, more bliss, against the long windows drummed the rain.

Sud lently, scarlet umbrellas fluttered on the terrace. Some one laughed. Then the broad door swung back and in they trooped—the Elmhurst girls.

I am glad that my first picture of the School in the Beautiful Trees was snapped in a shower. Later the sun shone. Elmhurst was Eden. But nothing eclipsed my impression of the creamy facade veiled by dripping green, nor of the cheerfulness of that cheerless Sunday, nor of the

rain-maidens, fresh from an after-church Marathon, rosy and rubbered, cravenetted.—charming!

Travel through the lovely White Water Valley to Connersville, Indiana, and you will understand why two accomplished women came out of the East and established a girls' school here. Elmhurst, handsome, spacious, historic, set in fine trees, dominates one hundred and twenty acres of timbered beauty. An Eastern school minus Eastern distances. A country school with every equipment modern town can boast and countless charms wholly its own. Life at Elmhurst is simple, filled with wholesome gayeties, broadly instructive. The girls live close to flowers and birds yet do not lack opportunities to acquire poise, ease,—the *savoir faire* that is not in the French course.

The stranger within the gates is struck by the freedom of Elmhurst. Rules are rare. Elmhurst acres are formidably fenced in; not so the girls. "Our aim," began Miss Cressler; "but if you haven't already discovered it," she broke off, "it's hardly worth talking about." Herein lies the Elmhurst keynote. Government without espionage. Elmhurst girls are expected to be thoughtful, responsible, perfectly truthful, perfectly courteous. It is assumed that they will respect the principles of the place. As it is fascinating to be believed in, idealized, if you like, the girls thrive under high standards and trust. If a girl's sense of honor is a bit wobbly when she comes to Elmhurst it soon braces up. The girls themselves are jealous upholders of the Elmhurst code. Doesn't the whole thing rest on them? Something may happen of course to make impromptu rules necessary. The school was immune during my visit and we had "a wonderful time" as The Little Blonde Girl said. (She was from Boston.)

The weekly holiday being Monday all the delightful interests of Elmhurst came into play. (Everyday, however, there are three hours catalogued "recreation," one of which must be spent out of doors.) Spirited tennis. Basket ball that was sporty without being rowdy. Golf. Rowing: the lake is a gem. Much "hiking" in sym-

pathetic groups. The gentle reaches of Elmhurst offer miles of woodlands walks. Full of composition is this diversified country. The drifts of dogwood. The Hawthorns in bud. The sunshine on the sheep hill. The meadows where the Jerseys join one. Seven delicious springs may be counted on the Elmhurst grounds, a pleiades supplying the whole colony.

Courses in Landscape Gardening and Agriculture under expert direction will be novel incidents of education at Elmhurst during the coming year. How to plan and plant a garden or a country place. Flowers; fruit culture; dairying. Even M. Maeterlinck's bee will receive attention. Elmhurst is pioneer among private schools in providing practical and picturesque courses in these absorbing subjects.

Farms, by the way, are an important frill on Elmhurst acres. They explained the "signed" eggs, the primrose butter, the copious cream, the Pactolian buttermilk, the "broilers,"—to detail a few fantasies of the Elmhurst mahogany. Country Life in *exclusis!*

Between sports, luncheon under the elms. There's an unsuppressed disposition to "picnic" at Elmhurst. Sunday night's "supper" had been a quite wonderful drawing-room affair in place of a formal meal. The girls served. There were guests. Afterwards we made "a golden end to the day" with a hymn and prayer in the Green Room.

Mensendieck! One cannot picture Elmhurst *sans* Mensendieck although Mensendieck cannot be pictured. Here is the latest physical culture for girls as devised by a German savant. Little known in this country as yet but already a feature at Elmhurst. In Mensendieck the muscles are exercised under the direct dictation of the mind and without apparatus. It is unmechanical, absorbing, entrancing to watch. The girls exercise practically in the open air (the large, out-door sleeping pavilion). Their costume permits unrestricted exercise of all the muscles, gives the skin a rare breathing chance. The director is a pupil of the great Mensendieck of Berlin. This ozonic interlude breaks the bookish routine; it means that *every muscle is exercised every day*; Elmhurst's eleven-o'clock chocolate-and-biscuit goes not begging! Individual records of progress are kept; the gain in suppleness, strength and control and the gain in weight often noted, are eloquent of the method's efficiency. The look of health Elmhurst girls show is a joy.

The creation of a home-school designed to attract the best type of girls could not have been undertaken by women more fitted for the task than are the Elmhurst principals. Miss Sumner, after foreign life and study, gave up her work as a teacher at Smith College to come to Elmhurst. Her sound scholarship is apparent in the catholic scope and thoroughness of the Elmhurst curriculum. Miss Cressler's buoyancy, her sympathetic understanding is as happily exercised at

Elmhurst as it was in Rome where her school for American girls was attractively known. The Elmhurst faculty comprises such women as the culture and cosmopolitanism of the principals would be expected to bring together.

The school's pedagogy is graphic. A girl must know what she knows. She may go as far as she chooses along the flowery meads of learning; she may gather what she will:—languages, science, literature, history, music, art,—but *she must know*. From "crammers," "smatterers," "quitters," "flunkers," and all such Elmhurst prays to be delivered. Schedules are so arranged that no girl prepares a lesson on the day that she recites it. Elmhurst girls entering Eastern colleges have maintained their grades with entire credit.

The foreign associations of Miss Cressler and Miss Sumner are evident in many unexpected bits of color. Old-world hangings, artistic fittings, stir the imagination—the wanderlust. Old marbles on the terrace. Art below stairs also. The chef is Italian, illustrious in classic cuisine. A genius, indeed is "Pio." Olive and adept also are the maids, speaking not "American."

Elmhurst is idyllic. Its woodlands; its fine cordial interiors; its ordered led-rooms; its perfectly lighted, perfectly equipped study hall and classrooms;—its open fires.

A minute down the Pergola Walk from the main house is a half-timbered bungalow set in a bouquet of green. This is the new hospital. Snow-white, sanitary, modern as the morning, complete in all its appointments. A sun room, bath, sleeping rooms, fire places, kitchenette. But Elmhurst girls persist in perfect health; the hospital still waits its first patient. Meantime it shelters delightfully passing parents, at Elmhurst for a look at their daughters or to become acquainted with the school; friends here for a dance, theatricals or the skating; stray "impressionists."

The Elmhurst tuition is one thousand dollars a year. (There are *no* "extras.") Miss Sumner and Miss Cressler will be glad to send to any one interested in "an unusual girls' school" the Catalogue and photographs. Address: Elmhurst School, Rural Delivery, No. 6, Connersville, Indiana.



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VOLUME XXII—NUMBER 5

July 1, 1912

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By LEONARD BARRON

Photographs by ARTHUR G. ELDREDGE and JOHN H. PEPPER

**A**T LAST we can have sweet peas all the year round. At first, this may not seem at all remarkable, but really it is. It is only within the last fifteen years, when you come to think of it, that we have been able to have sweet peas at all during the winter months, and as a winter flower of every day, it is only a development of most recent years. One is so accustomed to the fact of having sweet peas in the garden — they have been with us seemingly forever — that the extension of their period of flower through the winter months has hardly caused surprise among the general flower-loving public. On the other hand, those of us who have critically watched the development of the winter-flowering sweet pea are filled with wonderment.

The development and introduction of this new type has not only brought about a revolution with the purchasing public — sweet peas are so cheap and so easily available nowadays that everyone can have them who will — but this winter-blooming race has developed an entirely new commercial industry of no mean proportions. Establishments where cut flowers are grown commercially to supply

the large city markets are investing large sums of money for this one crop alone. Gigantic houses, costing \$10,000 apiece, and measuring 400 to 500 feet in length and 40 feet wide, are getting to be the usual and proper thing. The era of large commercial plant houses, which was begun by the lettuce growers and in which the rose growers followed, has made more easily possible this new sweet-pea industry.

The other factor was the introduction of the new race itself. So far as their flowers are concerned, you cannot tell the difference, but there is something curious in the makeup of a sweet pea. You cannot take the ordinary garden forms and grow them successfully under glass. You can grow them, yes; but they will not flower when you want them to in winter, no matter when you start the plants growing. But with the winter-flowering type, three months from the time of sowing the seed you can have bloom. You sow the first of September, and you begin to cut blooms for Thanksgiving. You sow the last week in September and your crop will commence returns for Christmas Day. It is better to start at the beginning of the month and catch both seasons.

As a popular cut flower, the sweet pea makes a strong appeal to the fancy for these very good reasons: It does not look exotic. It carries with it the feeling and the atmosphere of the summer garden, although the ground outside may be covered with snow and ice. It has charming grace of form and great variety of delicate colors, so that some one or two varieties can be chosen to combine with almost any imaginable color scheme of decoration. The flowers ship easily, last fairly well, can be arranged to suit individual fancy without any inconvenience whatever in handling, and finally they exhale a subtle and lively fragrance. Can you ask much more? Hardly; yet there is one more point and an important one. The flowers can be produced at a cost that makes their price in the retail stores within the reach of anybody who wishes to possess a handful of flowers. Three to five dollars a dozen bunches is

not an extravagant price to pay for a "few flowers." Some twelve years ago a progressive florist, who had experimented a little bit in raising sweet peas under glass, asked his commission man, one of the best known in the country, what he thought might be the market demand for sweet peas at Christmas, and received the reply, "Even if it were possible for you to produce sweet peas, it would be next to impossible to sell them." This represented the general attitude of the cut-flower industry. Sweet peas had been grown by a few men in a small way as a sort of by-product in their greenhouses, and a few were now and then sent in to the market spasmodically, which is merely another illustration of the very well proven fact that a commodity to meet an adequate return must be placed upon the market in sufficient quantity and with proper regularity to create a feeling of its existence. Though the actual



An avenue of fragrant bloom 320 feet long

grower in the early days received two and a half cents wholesale for a single spray of sweet peas, there was no profit in the business. It had not been developed as an independent industry. Today, when an actual grower is receiving less than half that price, he is making a good return on his investment.

Sweet peas require a large house. The vine grows tall, and in order to get full height at the sides and a proper pitch for the roof, the house must be more than 40 feet wide. Anything less than that, not giving clearance room above the rows of vines in the house, will cause shading of the adjoining rows during some part of the day.

One large grower who has raised sweet peas successfully has a house 330 x 40 ft., by 20 feet high in the centre. This space gives 9 rows 5 feet apart, which is the proper distance. Space must be left for working between the rows and for picking the

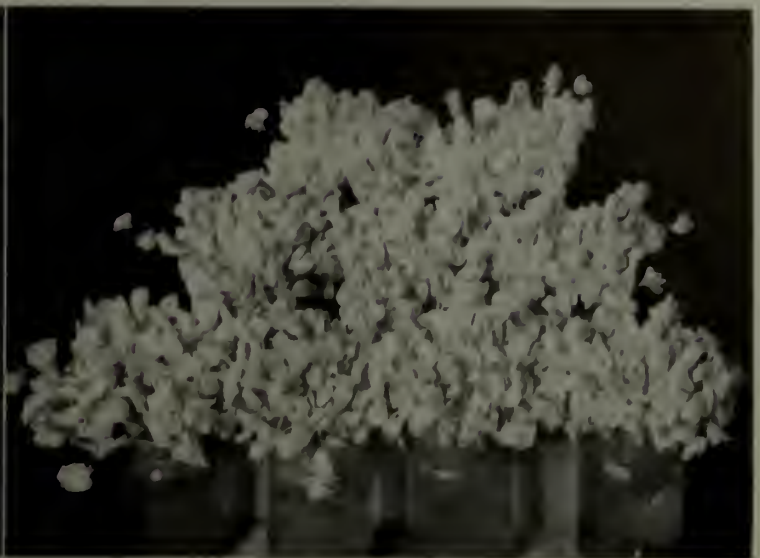
flowers. The trellises will run 8 to 9 feet high, and will be clothed with vines. A house of this sort planted on September first will give flowers continuously from about Thanksgiving until it is time to pick outdoor flowers in June. Not from the one original lot of shoots, however. There is something peculiar about the sweet pea. The first growth, which comes true to name and color, becomes exhausted at about the end of April, but is succeeded by lateral growths of remarkable vigor which will carry on the season until the outdoor crop matures. But these laterals, curiously enough, will produce almost anything under the sun but the color of the plant from which they sprung.

Such a house, in the height of its season, will cut 135 dozen bunches (a bunch is a dozen sprays) four times a week. The weather and the sunshine are controlling factors in the



A steel-frame glass house, containing 13,200 square feet, entirely devoted to the growing of sweet peas





One day's picking. Twelve sprays are tied together, and twelve of these bundles constitute a market bunch

Five dollars' worth of blossoms. They are kept in water over night. battery jars are used here

opening of the flowers. The amount will vary from that point down to 50 dozen at a picking. Possibly a safe figure to count upon would be 175 dozen a week during the season. A house of the size named, covering approximately 13,000 square feet of ground, will take a carload of manure for the preparation. This is spread broadcast and plowed under in just exactly the same way as you would treat the ground if it were not covered by glass. Drills are opened and the seed drilled in thickly or thinly, according to fancy; but at all events, so that the plants may ultimately stand two to three inches apart. The smaller space, two inches is that adopted by all of the most successful growers in the country whose blooms are a feature of the Boston market and the Boston flower shows. The labor to maintain and care for such a house throughout the season will be two men constantly, and during the picking season two extra men would be required. The cost of maintaining and working

such an area cannot be safely figured at less than 25 cents per square foot per annum, or say a little over \$3,000. The returns will vary according to circumstances — the crop, the season, the market conditions, especially gluts. At 50 cents a square foot, which is a good return, it would return nearly \$6,500 on a building investment of \$10,000.

In the largest establishment I have visited, sweet peas are not grown for their full term, but a strict rotation is followed. Mr. Sim has developed this sequence: Violets, sweet peas, tomatoes. The violets give flowers while the sweet peas are growing. That crop is carried for three months in bloom and is cleared out to make way for tomatoes, which are put into the Boston and nearby New England markets, so as to sandwich between the fag end of the nearby Southern crop and the arrival of the home outdoor crop. This probably pays better than running sweet peas for six months. It all depends on your markets.



The rows must be far enough apart not to interfere with the work

Sorting out attractive color combinations requires taste and judgment

In this house, 500 x 43 ft., the seed is sown two inches apart in rows five feet apart. Fifty flowers per plant are gathered, which will give a return of about fifty cents a plant. At an average of a little under a cent apiece, the returns from one year from sweet peas alone could be easily \$10,000, which would pay for the construction cost of the building.

Can you duplicate this? Perhaps; probably not. The growing conditions must be ideal. Sweet peas make certain definite demands. They must have a cool, buoyant atmosphere, not dry. The most successful sweet-pea factories that I have seen are within measurable distance of the ocean, where the plants probably not only derive the benefit of the moisture-laden atmosphere but enjoy the benefit of a not too low water table. The roots are cool.

I doubt if it could be done on a small scale. Some of the reasons for this belief have already been outlined. The large house makes the control of conditions much easier. The greater the volume of air inside the house the easier it is to control, other things being equal, and the sweet pea is a finicky thing during the dull days of winter. The temperature, especially at night, has to be watched carefully. Mr. Sim grows his at 48 degrees; Mr. Weston says 50 degrees, with 48 at the turn of the year. An unwonted drop of temperature of two degrees may cause the shedding of the flower buds of the entire crop. On such a little thing as two degrees fluctuation at night does success or failure turn. It surprised me to learn from Mr. Sim that he kept two firemen on duty at night as a precautionary measure; one man was on duty in the daytime. This is a reversal of the ordinary procedure, but it shows how success depends upon small matters.

Each man must adjust his methods to suit his own peculiar conditions. You cannot take one man's method in one place and reproduce it entirely in another and expect identical returns. Markets differ with every change of location and all businesses of this kind are evolutions. It is not the business, after all, that is the source of success; it is the man who can find unusual combinations of conditions and apply them successfully.

Now that we have these winter-flowering varieties successfully developed, it is not impossible to grow sweet peas in the private greenhouse for cut flowers and table decorations. Since it is not possible for the average amateur to maintain a greenhouse of the size and height most desirable for sweet-pea culture, any cool house may be employed where the requisite temperature can be maintained evenly. Otherwise it is not worth while to try to raise these tender flowers. Where a special house cannot be built, sweet peas may be grown successfully along the centre of an ordinary greenhouse, while carnations and lettuce are being grown at the sides.

The origin of the winter-flowering sweet pea is not entirely satisfactorily explained. It probably "just developed." The sweet pea is an interesting subject anyhow. Here for years people have grown the old type of what is known as the

grandiflora sweet pea, stable, satisfactory, small-flowered, and occasionally giving new varieties but nothing of a very remarkable character. Suddenly a dwarf appears — the Cupid race is developed. Again, still with our garden sweet pea, the flower becomes glorified, the standard is larger, bolder, waved, and the whole flower has a richer, sturdier appearance. The newcomer is called Countess Spencer. It appears simultaneously in different isolated places, and while the tangle is being straightened out, lo, other similar variations occur elsewhere in other varieties. Gradually we realize that Spencer forms are developing and practically reproducing our old grandiflora varieties. The latter are hardly grown any longer; everybody plants Spencers.

Similarly, the greenhouse type of winter-flowering sweet pea appears. All the evidence seems to lead, however, to the conclusion that it has sprung from Blanche Ferry, that favorite bicolor pink variety that has long been popular in the garden. Blanche Ferry gave Extra Early Blanche Ferry, which differed only in producing its flowers sooner than the original. This instability of nature seems to have persisted all through the Spencer family, and now Spencer winter-flowering types are announced.

The winter-flowering varieties seem to have a more slender growth than the garden plant, but in their flowers are indistinguishable. In the first stages of their growth, they show a difference. The garden type, after appearing above the ground for a few inches, seems to stand still, developing laterals. The winter-flowering type grows on for several feet and begins to flower before laterals develop. One of their desirable features is length of stem.

There are three groups of winter-flowering sweet peas now known, developed in widely separate localities. Professor Beal, of Cornell University, has made a critical study of these types and the results will be found in Bulletin 301. These types are known as Christmas-flowering, Telemly, and Engelmann.

The first of these groups was developed in the United States by Mr. A. C. Zvolanek of Bound Brook, N. J. It appears to be the result of a cross between an early flowering plant, found among Lottie Eckford, and Blanche Ferry. The cross gave Christmas Pink, although probably not as we have it to-day, for undoubtedly it has been selected and improved. The cross was made some time previous to 1895, for Mr. Zvolanek says that he was able to send

the first ten dozen blooms to market on January 1st of that year. The variety was introduced in 1899.

The next winter-flowering variety was Miss Florence E. Denzer, a cross between Christmas Pink and Emily Henderson. Since the latter was a white sport from Blanche Ferry, it is evident how closely this winter type is related to this standard American variety. By 1900, Mr. Zvolanek called attention to the fact that he had five varieties of the winter-flowering class. These pioneers were used to cross with the best outdoor varieties. The results number more than a hundred varieties, from which thirty have

(Continued on page 70)



Sprays of the new varieties are sometimes 22 inches long



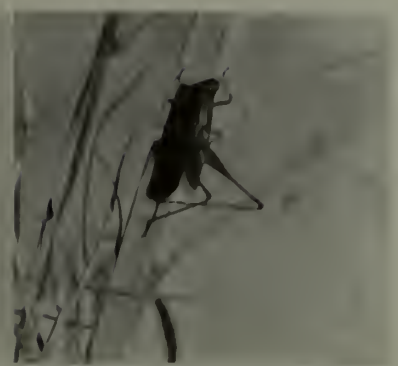
Two-spotted tree cricket (*Neozelina grassiana*, De G.) Color, light brown with a pinkish tint; notes, intermittent rich-toned trills



Female black-legged grasshopper (*Orchelimum nigripes*, Scudd.)—common in the South, but ranges over most of North America



Columbia tree cricket (*Cyrtoxipha columbiana*, Caudell.) Yellowish green; ranges southward from District of Columbia to Georgia; high pitched trills



*Xiphidium nemorate*, Scudd. Our smallest musical locust; found in meadows and fields. Its faint note is difficult to distinguish

## OUR MUSICAL CRICKETS AND KATYDIDS

By H. A. ALLARD

Photographs by the author



The slender meadow grasshopper (*Apteryx fasciata*, De G.)

**B**IRDS as a class are true vocalists. Their varied calls and songs, like the human voice, are produced by the vibrations of vocal chords. Insects, on the other hand, are strictly voiceless. They are without exception instrumental musicians, and produce their so-called "songs" by some combination of leg or wing movement. The familiar black ground crickets, the green katydids, the green lisp-ing meadow grasshoppers, the pearly winged tree crickets—all

make use of thin, glassy, highly specialized wing surfaces furnished with definite smooth areas and serrate ridges. As will these wing surfaces are moved rapidly on each other, producing by their friction the familiar strident lispings, chirpings, and trillings of midsummer. Among the birds the males only are capable of producing the characteristic songs of the species. Likewise among insects the males alone, with rare exceptions, furnish the distinctive notes of the species. Incidentally the human ear may catch these varied trillings and the responsive mind is awakened to tender emotions, yet the sole functions of these musical expressions of different insects are chiefly concerned with various social and mating activities of the creatures which produce them.

In comparison with birds and bird songs, insect music is little appreciated or understood. Many of our common-

est musical insects are rarely seen, for at best they are shy, reclusive creatures. Many species hide in the grass at our feet, too tiny to attract attention; others dwell in noisy colonies in the rank herbage of impenetrable marshes. Some of the larger sorts are exclusively tree dwellers. Except for their notes their existence would never be known to the casual observer.

A carefully trained ear and mind are indispensable to enable one to detect and to discriminate readily from the general insect medley any particular species of musician.



The Pennsylvania field cricket (*Gryllus pennsylvanicus*, Burm.). A widely distributed North American field cricket. Its notes are usually an intermittent chirp



The common broad-winged katydid (*Cyrtophyllus perspicillatus*, L.) is strictly arboreal



One of our handsomest katydids—the larger angular-winged *Microcentrum rhombifolium*, Sauss.



Oblong-winged katydid (*Amblycorypha oblongifolia*, De G.)—a handsome Eastern and Southern variety



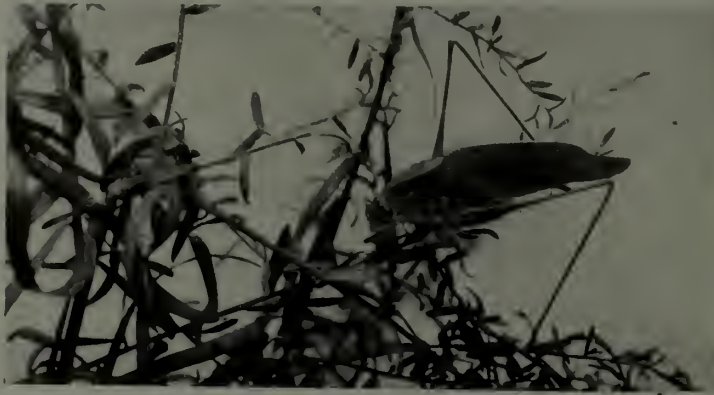
One of the commonest Southern katydids, the smaller angular-winged *Microcentrum retinerve*, Burm.



The broad-winged tree cricket (*Oecanthus latipennis*, Riley). A common insect of shrubs and vines in the East. Its notes are bell-like, quavering, and rich-toned, not unlike those of the common Northern tree toad, the transparent wings producing a volume of sound all out of proportion to their delicacy



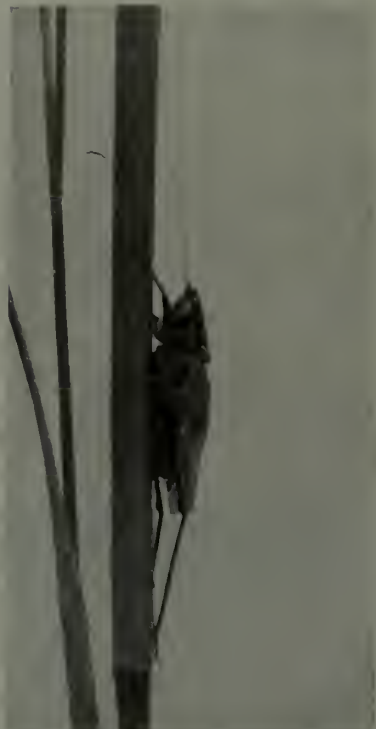
Four-spotted tree cricket (*Oecanthus quadripunctatus*, Beut.), which frequents the weeds of field and roadside. Its trill is thinner and shriller than that of the broad-winged variety. The wings of all tree crickets are elevated nearly at right angles to the body during stridulation, as shown here



Uhler's katydid (*Amblycorypha Uhleri*, Brunner). On warm, moonlight evenings its soft lispsings are the dominant notes in the low weeds



Brown-striped conehead (*Conocephalus fuscostriatus*, Redt.) A handsome, early spring conehead of the South. This is one of the most arboreal species in North America. Its note is a loud, continuous, penetrating buzz-z-z. The coneheads are among our handsomest locusts, and are too shy to be readily captured or confined. Their green or brown coloring harmonizes well with their environment



The common meadow grasshopper (*Orchelimum* sp.). It frequents low herbage, especially in meadows. The illustration shows how it hugs the grass stems in order to keep concealed. It will move around the stalk, keeping always on the side farthest from the observer, like a squirrel on a tree trunk. This species of meadow grasshopper is not so slender as *Xiphidium fasciatum*

themselves possess any intrinsic sweetness, but because they recall endearing memories of many happy, hopeful spring times. They are always the harbingers of another verdant season. Their plaintive notes add to our minds an emotional warmth and sunshine. They awaken for us an inner, subjective spring time.

In a similar way the crickets and katydids gladden and inspire us with their music in proportion as their notes have associated in with the coloring of ies. I find pressible sweetness in of the snowy they recall



Enlargement of curved vein on underside of katydid's upper wing cover, showing file-like teeth, across which prominent veins on the under wing cover are scraped to produce notes

become as our minds emotional past memories an inex-charm and the notes tree cricket; to mind impressions of childhood life on an old New England homestead where flourished luxuriant hedges of goldenrod and asters; of dreamy, dewy August evenings. I am just as glad to hear the first tree cricket in July or August as I am to hear the first bluebird or piping frog of spring. At a certain time in August I expect almost uncon-



Round-winged katydid (*Amblycorypha rotundifolia*, Scudd.) Note is similar to that of Uhler's katydid



*Atlanticus pachymerus*, Burm. A brown, odd-looking locust; short wing covers; lisping notes



The Texas katydid (*Scudderella texensis*, S. & P.), common from New England to Florida, and westward

sciously to hear it; everything seems prepared for and awaiting the first enlivening note of a tree cricket in the goldenrod or bramble hedges. I hear it, and as if by magic I am in my proper summer mood.

The Japanese for centuries have loved and appreciated their insect musicians. At a time when our own language was just emerging from the incoherent Teuton speech, we are told that the people of this little empire each summer made long pilgrimages into certain districts to listen to and capture certain kinds of musical crickets and katydids dear to the Japanese mind. These were placed in dainty bamboo cages and tenderly cared for, as we care for song birds. Cared singing insects are even now a part of the stock for sale in Japanese booths.

All our musical crickets, grasshoppers, and katydids belong in scientific classification to the orthoptera. Of these the more lowly grasshoppers are least musical, and saw out only a few weak, monotonous lisps by bringing the hind femur against the outer edges of the wing covers. Sometimes one leg is used, sometimes both. Other species make a noisy clack with the wings only during flight.

The green locusts and katydids are among our largest and most noisy insects, yet their notes can hardly be termed musical. Although the notes are in many instances truly rhythmical, they are utterly lacking in true musical tones.

In the popular sense, the term "katydid" is loosely applied to several kinds of locusts. Many of our katydids are strictly arboreal. Although of large size, the more or less oval outlines, the green colorations, and leaf-like venation of the large wing covers, serve to harmonize them well with their environment of green foliage. Many other tiny locusts whose notes are almost too faint to be noticeable dwell exclusively in the grass and herbage of field and meadows. Such are the tiny xiphidiums, as they are technically called.



Swamp conehead (*Conocephalus palustris*, Blatchley.) The texture of the wing covers is almost grass-like

*Orchelimum molossium* a meadow grasshopper common to much of the Eastern United States

The notes of insects are more properly called stridulations. It has been attempted to set these obscure sounds to music, but such efforts have been entirely futile and inadequate. Descriptions of the notes, however careful, can never serve to introduce the peculiar sounds of insects to others. Each observer must go directly to the fields and listen to the insects as they chirp and trill. Gradually the characteristic notes of a species are learned. The task becomes simpler with each additional experience. Every unfamiliar note carries with it a new charm and pleasure, and the quest begins. Grasses and herbs are searched, shrubs are scanned, trees are climbed. A healthy activity is induced by the spirit of the chase. It is even possible to confine many species in screened boxes with a little herbage or in a room. Usually, under such conditions, the creatures at once make themselves at home and stridulate as freely as when out of doors.



The tiny meadow grasshopper is scarcely wider than a grass-blade and is like it in color



The least pine-tree locust (*Orchelimum minor*, Brunner) occurs from New Jersey southward

activity is induced by the spirit of the chase. It is even possible to confine many species in screened boxes with a little herbage or in a room. Usually, under such conditions, the creatures at once make themselves at home and stridulate as freely as when out of doors.

Relatively few people have ever seen the big, arboreal broad-winged katydid whose din is one of the familiar accompaniments of the late summer evenings, which is not strange, since these insects choose the foliage of such inaccessible trees as oaks, maples, etc. This is the katydid which to many people seems to say "katydid—katydidn't—she did—she didn't," etc. It seems rather strange that some should believe that this noisy creature is a bird and not an insect. Nevertheless throughout the country not a few people hold firmly to this opinion.

Many other insects — beetles, ants, etc. — are capable of producing slight sounds by friction of certain parts of their bodies. Some butterflies have been observed to produce a click with their wings. These sounds, however, play no part in the familiar midsummer chorus of insect sounds. Cicadas or harvest flies, however, are capable of producing exceedingly loud, buzzing notes. It is interesting to note that these insects do not stridulate, but produce their notes by air movements within internal body cavities containing complex vibrating membranes. The notes of these insects are more comparable to the vocal expression of birds.



The "slightly musical" conehead (*Conocephalus exiliscanornus*, Davis) (female). Sometimes heard around Washington, D. C.



Brunner's conehead, (*Conocephalus Bruneri*, Blatchley). A rather uncommon Eastern species. Note harsh and intermittent

## A SWIMMING POOL ON A HILLTOP



This pool, at "Rippowan," the country place of Mr. Jonathan Bulkley, at Ridgefield, Conn., is fed by a spring. The approach to the house is by the path of evergreens in the background. A pergola of simpler design might have been preferable.



At the other end of the pool there is a cozy, latticed tea-house. The line across the water separates the children's end of the basin, which is three feet deep there and ten at the other end



New London harbor is one of the several centres of the yachtsman's playground which stretches all along the coast of Rhode Island and Connecticut. Including many beautiful and historic places, among them Providence, which implies in her very name the old spirit of New England

## BEAUTIFUL AMERICA

### VIII. NEW ENGLAND, "MOTHER OF AMERICA"

By MARY E. WILKINS FREEMAN

Photographs by F. A. SAUNDERSON, WALTER R. MERRYMAN, HENRY TROTH, F. A. WALTER, L. F. BREHMER, A. G. ROBINSON, CLIFTON JOHNSON, KIRK-THOMAS CO., ARTHUR G. ELDRIDGE, and the KALKHOFF CO.

NEW ENGLAND has possibly been seldom used in connection with the adjective beautiful. Rather have we, even of New England stock, reflected upon her "stern and rock-bound coast," and sterile soil, furnishing starvation-livelihoods to the descendants of Puritans. As far as beauty was concerned, we may have wondered whether a genuine New Englander ever had time to spy it out if it existed; perhaps nobody did in the old days of capped women bent ceaselessly over spinning-wheels and looms, of men bent over plough-ridges, or peering from the forest shelter for enemies threatening their lives. Perhaps the Bunker Hill men never had a second to look at sunsets and the lovely sky-line of their own Blue Hills; perhaps the women who survived the Indian war-times never fairly grasped the beauties of the spring wild-flowers in wood and field. The wood must have meant to them possible ambush, capture, and death; the field bare sustenance, and material for weary industry.

Now it is different. We of this later time, handicapped though we also are by strenu-

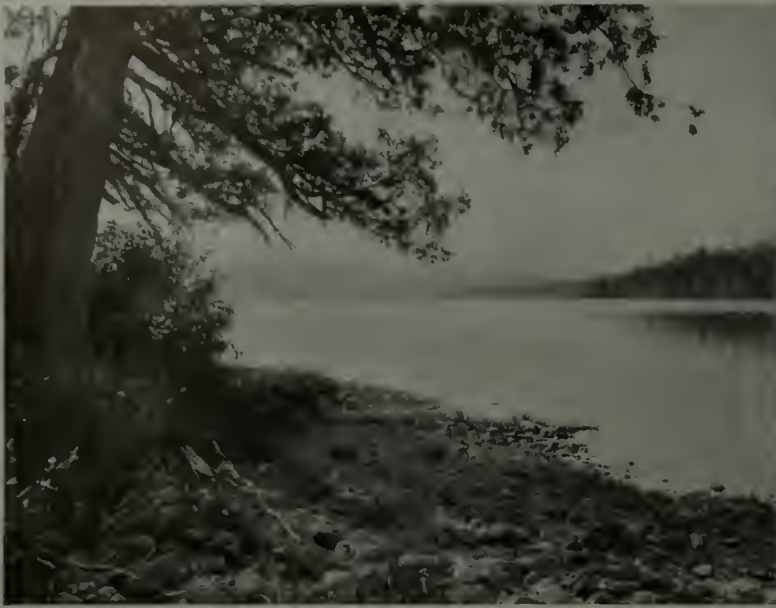
osities of life in a land not exactly flowing with milk and honey, can stand, and look, and realize that New England, hard-handed, keen-eyed Mother of America, has beauty all her own; not a beauty by comparison, but a beauty of individuality.

Let us begin, as it were, at the apex of New England, her crown of White Mountains. Other lands have grander diadems of eternal hills, but Mount Washington, with his magnificent slope of barren rock swept by mighty winds, is all here, her forehead jewel, to be worn by no other forever. To New England belongs the sanctity of antiquity of

mountains, so reverend with age that their hearts of fire are long since cold, of mountains which have been climbed by races of men unknown to history. The mountain-land of New England, the inmost heart of the White Mountains, is prehistoric in the fullest sense. No human being knows the whole past of those wooded and rocky slopes, of those dark green valleys, of those deep crystals of lakes. We people them in fancy with the Indian tribes, but



Connecticut is a fair state; so is Rhode Island, her smaller sister. The lower part of New England has its beauties in plenty, especially on the shores of Long Island Sound



Kinnebago Lake, Maine, whose waters flow into the Rangeley Chain, famous alike for their splendid scenery and for their good fishing and hunting



Mt. Katahdin, the highest peak in Maine, from the West Branch of the Penobscot River in the heart of the hunting country northeast of Moosehead Lake



Mt. Washington is above the clouds much of the time even in summer, and other nearby peaks are often seen through rifts like this one disclosing Mt. Adams



All the way up the Mt. Washington carriage road there are splendid views of Mt. Adams and Mt. Madison which seem hardly more than a stone's throw away



Throughout the mountain lands of New Hampshire and Vermont there are many streams like this in the Franconia Notch, fair as the nymph Arethusa



Lake Sunapee is one of the several charming and popular lakes of central New Hampshire. Winnepesaukee, not far away, is considerably larger





In several New England hamlets survives, like the refrain of a song, the best blood in the land, in dignified gentlemen and gentlewomen. It is upon them that the highest beauty of the land depends, for the present and for the future"



Along the Dead River, that Maine stream which flows yet does not seem to, is a splendid background of the Bigelow Mountains, impressive as great patriarchs of the earth. This river suggests the Saco in midsummer or the upper reaches of the Connecticut



At Cape Ann, Massachusetts, we see in very truth the "stern and rock-bound coast" which so truly exemplifies the steadfast character of the early settlers that we sometimes wonder if the descendants of a genuine New Englander ever had time to realize the significance of the beauty about him



"Other lands have grander diadems of eternal hills, but Mount Washington, with his magnificent slope of barren rock swept by mighty winds, is all here the forehead jewel of New England to be worn by no other forever"



The summer residence of Mr. Beaver on Jones Pond in the well known Dead River section of the Maine woods. Bigelow Mountain in the distance

To the north of the Berkshire country old Greylock looms up supreme, while ever rolling at its feet are the Hoosac and Housatonic rivers



In the heart of the Green Mountains of Vermont, Otter Creek, the largest river of the state, flows peacefully along, with Mt. Kellington looking down upon it. Nowhere else is there such foliage coloring; it is like the emerald green for which Ireland is famous

beyond that fancy is blind even to conjecture. But they are beautiful; beautiful in summer when stars of dew-light shine out under the morning sun, and when massed in shadow under white moons; beautiful in autumn, when they glow with all the colors of the world, as upon the palette of some angel of God; beautiful in winter, when shining remotely through drifting veils of snow, or flinging back blue for blue to the unclouded sky, or full of strange reflections of rose and



Pickering Cove, Penobscot Bay, is typical of the deeply indented, fringe-like coast of Maine which is a summer paradise for the jaded city man

purple and beryl, the origin of which no one can see upon the earth, and wonders vaguely at with half-formulated consideration of jewelled gates beyond ken of man.

There is a lake, also, in the White Mountains, upon which one can float in a boat over fathomless depths, and shout, and hear his voice flung back at him with fugue-like repetition; there is another lake, guarded forever by a great visage of stone, of living rock, inscrutable as the Sphinx. There are mountain streams fair as the nymph Arethusa; there are little pools so clear that they themselves are quite invisible, swarmed over by dragon-flies with rainbow wings. These little pools in the mountain lands of Vermont and New Hampshire hardly large enough to be called ponds, holding treasures of trout for the epicure, giving to the material need as well as to the need of the soul, are like eyes of beloved folk, which live in the thought of the beholder when far away.

Leaving the mountains, there is the Connecticut, which divides two states like a ribbon of water and seeks the sea, making its mighty pathway across Massachusetts and Connecticut. This one dear, great river of New England, swift of current, reflecting the sunlight from its rapids, is mighty as a god of wrath in spring, moving with rapid grace like a timid maiden under overhanging verdure when the war between winter and the vernal

equinox is over and peace is declared.

There is a coast of mighty rocks, overlapped by mightier waves, to the far east of New England. There are more mountains, impressive as great patriarchs of the earth. Dry Mountain in Bar Harbor is a natural pyramid of New England. Reared by nature herself, through the centuries, with no stone laid by the hand of man, stands that terrible mountain menacing with a mystery of past de-

struction which overwhelmed itself at last, and left it stripped to its stone ribs, and dead.

Then going to the Commonwealth of Massachusetts, the bed-rock of the states, beauty abounds among much that is to the unreflective mind unbeautiful, by reason of the necessity for toil, to keep steadfast the great commonwealth in her historic place. Nobody questions the charm of the Berkshire country—lovely hills, and valleys of delight; nobody questions the charm of some of the small inland cities and villages, with their inhabitants descended from the best of New England stock. Old Deerfield is a gem among villages, with its wide street overarched as solemnly as a cathedral aisle by its wonderful old elms, its ancient dwellings whose first owners heard the war-cries of savages, its strange terraces overlooking green valley-lands; and in old Deerfield, too, survives, like the refrain of a song, the best blood of the land, in dignified gentlemen and gentlewomen who reflect upon their past, not with ignoble pride, but with respect and appreciation of what it has done for them.

Then Boston, despite the jests upon its over-culture, some perhaps warranted, is a city of which to speak with deference and admiration. Beacon Hill, with its old mansions displaying masterpieces of Colonial doors, as their

*(Continued on page 64)*



The mountain land of New England from Kezar Lake, Maine. The White Mountains are prehistoric in the fullest sense. No human being knows the full past of those wooded and rocky slopes, of those dark green valleys, of those deep crystals of lakes



The Pod of Pease as a houseboat. In its favorite moorage between the islands



Front view of The Pod in its final resting place

## THE HOUSEBOAT THAT WENT "BACK TO THE LAND"

By C. H. PEASE

Photographs by the author

COUNTRY LIFE IN AMERICA for August, 1910, described *The Pod of Pease* in detail as a houseboat, and as such it proved a most satisfactory camping outfit.

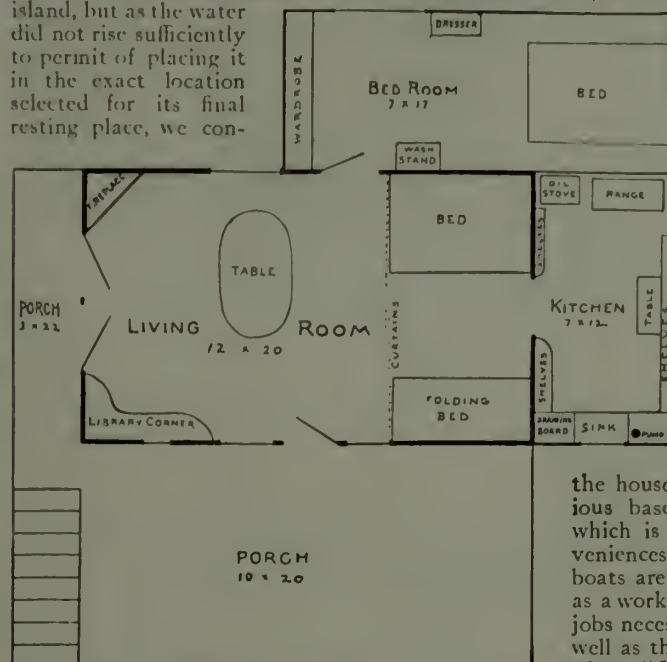
While we have in no way changed our views regarding the houseboat as a summer home, and hope and intend to have another sometime, circumstances transpired last season which resulted in our becoming the possessors of three islands, and the temptation to have a cottage on one of these islands was too great to resist.

We could not see our way clear to abandon the houseboat and build a cottage, neither could we occupy both, and after building numerous "air castles" and discussing the situation pro and con, we decided to move the houseboat on to one of the islands, build on two additional rooms and a porch, and try our summer living on *terra firma*.

Being located at the junction of the Housatonic and Blackberry Rivers at Canaan, Conn., and subject to a fluctuation of water level to the extent of nearly seven feet, completely submerging our islands at flood times, we were confronted with problems unknown to upland campers. Fortunately these floods never come in summer, and, consequently, do not trouble us while occupying the place. We have simply to safeguard our possessions at the end of the season by placing everything damageable by water above the high-water line, which is an easy matter.

When the first high water came in the early winter the houseboat was floated on to the middle island, but as the water did not rise sufficiently to permit of placing it in the exact location selected for its final resting place, we con-

cluded to await the possibility of higher water later, rather than go to the expense and hard work of moving it overland; consequently the houseboat spent most of the winter standing on its barrels out of the water and ice. An early spring freshet came to our rescue and raised *The Pod* so that it was but the work of less than half an hour to float it exactly where wanted and fasten it with guy ropes. When the water abated the building stood high and dry on its barrel foundation, and at that moment it ceased to be a houseboat. With the aid of jackscrews and old railroad ties for blocking, it was raised, the barrels removed, and the stone foundation was built to the height of 7 feet the full size of



Floor plan. The heavy lines indicate the dimensions of the original houseboat

the house including the porch, making a spacious basement (20 x 22 ft.) for storage, in which is located the ice box and other conveniences for summer use, and in which our boats are housed for the winter. It also serves as a workshop for the execution of various odd jobs necessary about a place of this kind, as well as the repairing and annual overhauling of our "fleet." The stone wall on the north side was made exceptionally strong to combat the ice which sometimes accompanies the early spring freshets.

It might be interesting to note here that, as there were no stones or rocks on our islands, it was necessary to transport this material from the mainland by boats, a problem which our mason solved in a very ingenious manner. By lashing two ordinary rowboats together side by side, and laying planks across, large loads of building stone were easily taken to the island, the mason and his helper furnishing the motive power by means of ordinary oars.

Above the basement our additional rooms consist of a kitchen, 7 x 12 ft., and a bedroom, 7 x 17 ft., besides the porch, 10 x 20 ft.

By the economical use of space the 7 x 12 ft. kitchen is equipped with a cook-stove, oil-stove, sink and the necessary appurtenances thereto, including a pump, plenty of shelf room, and ample floor space for the convenient execution of culinary work, with no suggestion of crowding.

As a means of ventilation, and to dispose of surplus heat when cooking, a series of transoms is arranged the long way of the kitchen near the top of the room and another through the roof, all of which may be opened or closed at will, and it would be difficult to find a more



The family of ducks taking a luncheon from the hands of their mistress



"The houseboat spent most of the winter standing on its barrels out of the water and ice"



Breaking ground for a flower bed. The houseboat in position ready to be raised



The luxuriant foliage and vines gave the place the appearance of having been there for years

comfortable and convenient workshop for the housewife.

The new bedroom is equipped on two sides with transom ventilators, which add much to the comfort of the occupants in hot weather. One end of the room is used as a wardrobe and the other end, in which is the bed, is made mosquito proof with screens. This is done, not because we are seriously infested with these pests, but, like some summer resorts that advertise "no mosquitoes," we occasionally have a few.

When the weather will permit of outdoor living, as is the case most of the time during the summer, there is no place where may be found more real solid comfort than in the shade of the porch roof; in fact, the porch is frequently referred to as "the best room in the house." Ours is in no way elaborate, but constructed solely with a view to simplicity and comfort, equipped with bamboo screens, swinging couch, easy chairs, and a small stand for reading matter. The posts and railings are of rustic cedar, and the view from the porch is one of the attractions.

Some rearrangement of the interior was made necessary by the enlargement of the house. The kitchen paraphernalia and the furniture in one of the bedroom corners were moved into their respective new quarters, and in their stead were added a library corner and what might be called

practically as it was, the only changes worthy of mention being the addition of a little white birch decoration and a mantel. During the unseasonably cold weather of last June this fireplace proved itself an absolute necessity, and



A corner of the new kitchen

was in use almost continuously. There were also several chilly evenings in midsummer when the genial warmth from the open fire was not the least uncomfortable.

The original houseboat was papered with white birch bark, and it is our intention to finish the new parts in the same way, but as the season for harvesting birch bark was past before the new rooms were ready to receive it, we were obliged to defer this embellishment until another year.

The location selected for our island summer home was in the midst of a clump of young trees, many of which were choke-cherries that bore abundant fruit in their season, which could be easily picked from the porch and windows. These trees not only furnished a dense shade but served as a windbreak during severe weather, and afforded attractive building sites for the birds. A pair of catbirds and summer yellow-birds were our most intimate neighbors, aside from a pair of robins that built on a sill in the cellar, taking possession before this part was closed in. A pair of peewees insisted upon building under the porch roof, but from a previous experience with these birds, which resulted in completely filling one end of the houseboat with bird-lice before the young birds were ready to fly, we concluded that a little "distance lends enchantment" to this particular variety of tenant, and they were warned out. We were favored with a goodly supply of other feathered neighbors nearby, and it was with much pleasure that we watched the house-keeping of the song sparrows whose nest was built under a brush heap on one corner of the island, house wrens who selected a piece of old tin pipe nailed to a tree, rose-breasted grosbeaks in an adjacent thicket, kingbirds on a horizontal limb overhanging the water, red-winged black-birds in a button-bush surrounded by water, and several others a little more remote.

It is but natural, upon becoming a land resident after spending several summers on houseboats, to compare notes; and in doing so we must admit that each method of living has its own attractions, each peculiar to itself

and in many respects different from the other. We have missed the luxury of sitting in our easy chair in the doorway of the houseboat, regardless of weather, and catching the meal of fresh fish which the good housewife ordered. We have had to give up the changes of scenery, the variety of surroundings, and other novel features of the movable house on the water, for the new pleasures afforded by a closer communion with Mother Earth, but the latter compensated in a way by opening up a new field of labor and enjoyment for each member of the family, new attractions and conveniences. Among the latter we were enabled to enjoy the luxury of a telephone, as the main line followed the highway along the opposite side of the river, and at an expense of less than two dollars the 'phone was moved from our residence in town to *The Pod*.

When we decided to move the houseboat on to the island my wife expressed her desire to indulge two hobbies which had been uppermost in her mind for several years, although we were not so situated that they could be carried out — to have a little garden of her own and a flock of ducks. One could scarcely imagine conditions more favorable, or a location better



The fireplace was allowed to remain practically as it was in the houseboat

a spare room, the latter being simply an additional lounging place by day, but with its bed-lounge, easily converted into sleeping quarters when a full house demands it. The dining table, which was attached to the side of the room in the original houseboat, was replaced by a movable extension table, and the lumber in the former was used in the construction of a writing table, or more properly a wide shelf, in the library corner. This was covered with green billiard-table felt and supplied with stationery, ink, pens, etc., and also holds the telephone.

The cozy corner, with its fireplace, remained



The alcove corner in the new bedroom, before papering with birch bark, showing the fresh-air transom

adapted to the realization of these hobbies than our islands, and among the first duties of the early spring were the clearing of the garden patch and purchasing a sitting of ducks' eggs.

The plot selected for the garden was near the

water's edge, where a summer drouth would not seriously affect the crops, and which had previously been an unlighty hedgerow of bushes and brambles. Owing to the inconvenience of getting horses on to the island, and the allotted space being small, the ground was cleared and spaded by hand — this, and the seeds, and a little fertilizer being the only expense connected with the enterprise. In the arranging, planning, and caring for the garden my wife derived an immense amount of pleasure and a good healthy complexion. Everything grew finely and the fresh vegetables that supplied our table fully repaid with compound interest for all labor and expense. Anticipating trouble from muskrats, a fence of 2 inch mesh chicken wire 2-feet high was made to surround the garden. This worked admirably for the rats but did not keep out the field mice that appreciated the good things within the enclosure. They proved a nuisance, almost completely ruining a row of early peas and making sad havoc with the string beans and cauliflower. Some were caught in traps but it was finally necessary to resort to poison, which was so placed that the birds could not get it.

There was nothing about our little home on the island more interesting, nor which furnished more pleasure and satisfaction, than the family of ducks. We bought the eggs from a breeder of one of the finest flocks of Pekins in this region, and set thirteen under a hen, from which the faithful old biddy produced thirteen strong and healthy ducklings. This was certainly a good beginning; in fact so good that we feared the "unlucky thirteen" might mean a bad ending. But we were happily disappointed. They were counted when let out and when they returned from their daily swim, and, with but one exception when one strayed from the others and was out over night, they always counted the same thirteen. They regularly returned before nightfall, dressed their feathers on the river bank, and, after a light lunch of grain from the hands of their mistress, retired for the night.

Another luxury which we were deprived of when living on the houseboat was the water garden. Two of our islands are separated by a channel only a few feet wide, at the narrowest part of which we built a stone bridge, and the wider portion was planted to water lilies. The native water lily, together with yellow, red (variegated), pink, and a plant of Egyptian lotus, supplied most attractive bouquets all summer, and, as they are all hardy, the labor of caring for them is nil.

The cost of the changes which *The Pod* has undergone since it came "back to the land" — including the first foundation of old railroad ties which were subsequently replaced by stone and finally converted into fuel for the fireplace — was, approximately, \$130, making, with the original outlay of about \$100 for the houseboat, a total investment of \$230. Considerable work was done, and more is yet to be done in the way of minor conveniences, finishing touches, etc., which were not included in the above figures, because this work represents no direct expenditure of money, and the pleasure and satisfaction of making and using these things more than repays for all the labor. The expense of living here is much less than in town, and this saving more than pays the taxes, insurance, and maintenance of the place.

Should the novelty of our new surroundings wear off — the thought of which seems preposterous now — we have the satisfaction of feeling that our experiment was a success and our labors were not in vain. Besides the pleasure derived from planning and carrying out the various changes and improvements, and the enjoyment of occupying and using them, *The Pod of Pease* has demonstrated on a small scale, but in a most practical way, that people who long for such things but do not feel that they can afford them, may own and enjoy these luxuries if they are willing to start in a small way, adding a little each year and taking advantage of circumstances until the aggregate result is a summer home far more pretentious than the owner ever dreamed of possessing. *The Pod of Pease* is far from pretentious, but we are still planning, and the end is not yet.



The arranging, planting, and carting for of the garden not only provided an immense amount of pleasure for all concerned, but supplied the table with fresh vegetables in abundance



Hauling stone for the foundation. The boats were lashed together side by side, and planks laid across them. The boatmen rowed backward in order to see better when making the landing



The porch was constructed with an eye single to comfort and simplicity, and is frequently referred to as the "best room in the house." The view is one of its attractions



The bees proved so profitable the first season that it is planned to enlarge the apiary, making it a sole means of support



The hives in winter dress. They are covered securely on the outside with water-proof roofing paper, a hole being left at the entrance

## A WOMAN'S EXPERIENCE IN KEEPING BEES

By IRENE L. HEULITT

I MUST confess that it was with serious misgivings that I decided to become a beekeeper.

This was due to the fact that I had so frequently read of people losing their lives from bee stings, when whole colonies were reported to have sallied forth and stung to death those who had essayed to manage them.

I soon learned, however, that with bees of the Italian race (supplemented with proper protection in the way of gloves, veil, smoker, and a little care in handling) my fears were entirely groundless; and as the season advanced, I gained sufficient confidence to dispense at times with all protective measures. I received a few stings, it is true, due, however, to carelessness on my part in unnecessarily jarring their hives.

Apart from honey production, there are several side lines to bee-keeping that are very profitable, such as the rearing of queen bees in large numbers. Annually there pass through the mails several hundred thousand queens, bringing from \$1 to \$5 apiece, and as these queens can be raised artificially at a ridiculously low cost, the extent of this field is apparent.

In making a start the best method is to secure one or more colonies of Italian bees from some reputable beekeeper, and two or more complete empty hives to take care of the swarms that are sure to emerge from the parent colonies during May or June.

When the bees arrive by express, wait until toward evening before setting them out on their permanent stands, as they will not then be inclined to fly, as would be the case if they were released earlier in the day.

Elevate each hive on bricks or boards, or better

still, on one of the excellent hive stands made at moderate cost by the bee supply manufacturers, locating the hives in the rear of the garden, or such other place as will keep them from annoying the neighbors, for inexperienced people have a mortal fear of bees.

Before releasing the bees have ready your outfit for protection, consisting of a good bee veil, a pair of gauntlet bee gloves, and a smoker, in which should be burned planer shavings or

tightly about the ankles. Over these a skirt can be worn to avoid unfavorable comment.

When ready to release the bees blow a little smoke down over them and in a few minutes they will be quiet so that you can pry off the screens from the top and bottom of the hive; then set the hive on its bottom board, and cover it with its lid.

After releasing my bees, I left them undisturbed for a day or two to become accustomed to their new surroundings, and in an incredibly short time they were perfectly contented, and busy bringing in pollen and honey. Every two or three days I could not resist the temptation to look at them, and this was an exceedingly easy task with the use of the smoker; it was amusing to see how a few whiffs of smoke took all the fight out of them.

After puffing in the smoke, it was the work of a moment to open the hive, and with the aid of the hive tool to lift out the frames one by one until I found the queen. She is easily distinguished from the drones and workers by her tapering body, much longer than the others.

About the last of May the hive became so crowded with new bees and honey that I immediately put the super in shape to give to them, as I greatly

desired to prevent swarming if possible, fearing that they might fly away before I could hive them.

These supers contain little wooden boxes in which sheets of foundation comb are inserted, and when completed by the bees hold just about a pound of comb honey, such as we see on sale in the stores. The little section boxes come in the flat, as do the sheets of foundation, and by following the printed directions that come with them I was able to put 300 of them together



Catching the swarm bare-handed

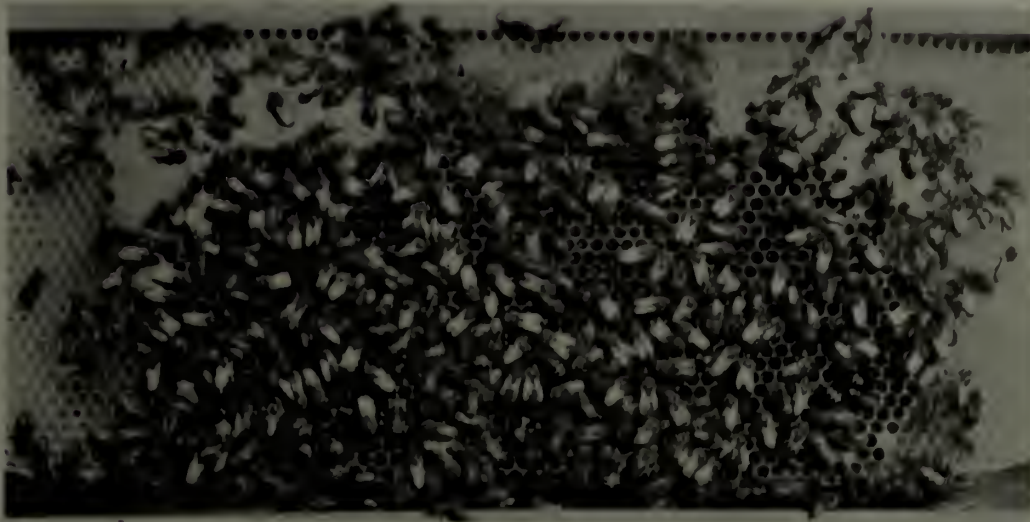


An observation hive affords much pleasure

small pieces of wood. The smoke is indispensable in subduing these little people, and will need to be used every time you handle them. These things, with a hive tool for opening the hives, can all be procured from the bee supply houses, and their cost is slight.

The suit that I wear in handling my bees is absolutely bee-proof and is nothing more or less than a pair of men's overalls with a drawing string at the bottom of each leg to secure them





A frame of Italian bees at work

in a couple of hours. Lifting the lid of the hive, I placed one of these supers on each of my two hives.

As the season advanced and basswood and clover came into bloom I was overjoyed to find that the bees were working full tilt in the little boxes, and as their clustering at the entrance of the hives indicated that they were preparing to swarm for lack of room, I immediately gave them another super filled with thirty-two little boxes; so vigorously did they fill them that I was compelled to give them each four supers, all holding 128 little boxes for them to fill.

When everything was at its height, I heard one morning the latter part of June, an unusual buzzing out at my modest apiary; so donning my bee outfit I rushed out to find that a swarm was coming out, the bees tumbling over each other in a mad rush to join those already on the wing.

The thing that impressed me most was the remarkable gentleness of the swarm, as not a single bee attempted to sting me; then I recalled that I had read that at swarming time bees are often so gorged with honey for which there was no room in the old crowded hive, that it is a physical impossibility for them to sting. So I discarded my veil and gloves and prepared to capture the swarm bare handed. After flying for a few moments they clustered on the lower limb of a nearby tree, and it was but the matter of two or three minutes to cut the branch from which they hung, and carry them to the empty hive which had been previously filled with frames containing full sheets of foundation. The swarm entered it at once, and soon had their sentinels posted at the hive entrance, ready to "repel boarders."

It would have been folly to have left on the old hive the supers in which the swarm had

previously worked, so I transferred the supers to the top of the new hive, and the bees continued their work with a vengeance.

A few days later the other original hive cast a swarm, which was treated in a similar manner, and as the parent colonies reared queens to take the places of those that had gone out with the swarms, all was well.

About the 20th of July, the early honey flow having ceased, I prepared to take the surplus, as I saw no advantage in leaving it on the hives to become travel stained, and with the use of a bee escape board and smoker took it off at night. I was overjoyed to find that one hive had completed 116 nice little pound boxes of the whitest and most delicious comb honey, while the other had given 110 pounds of equal quality. I was more than satisfied.

The supers were again filled with empty boxes and placed on the hives for the fall flow from goldenrod, buckwheat, and wild asters, but though the bees were quite busy they seemed inclined to store the honey in the main body to carry them over the winter, and made but about ten pounds each in the supers.

About the middle of October the cold nights warned me that I had better prepare my wards for their long winter's sleep, and as I intended to winter them out of doors, some extra packing was needed to protect them from the cold. Removing the supers, I placed a plain honey board over the main hive body, and on top of this put an empty hive body of full depth, filled with planer shavings — sawdust, cut hay, or chaff would have done equally well. Then about the two bodies I tacked waterproof roofing paper from top to bottom, cutting out a piece at the entrance of each hive so that the bees could get out for a cleansing flight on warm winter days; on top of all I placed the lid, with a rock to prevent its blowing off. In this garb each hive came through the winter in fine shape, and with the blooming of the crimson maples gave evidence that they were very much alive, by the great loads of pollen they daily brought to their hives.

## MARKETING 10,000 BASKETS OF PEACHES

DIFFICULTIES THAT BESET THE PATH OF THE PRODUCER — THE PART THAT THE RAILROADS PLAY IN THE FINANCIAL SUCCESS OF RAISING FRUIT ON A LARGE SCALE

By GRAHAM F. BLANDY

Photographs by the author

MY FARM is in the Shenandoah Valley, Virginia — a thousand acres of the many thousand once owned by Lord Fairfax. One railroad follows the valley almost north and south, connecting at Harrisburg with the main line of the Pennsylvania Railroad but intersected also at its northern end by the Baltimore & Ohio, Western Maryland, and Southern, and toward its lower end by the Chesapeake & Ohio. Practically speaking, an outlet to a grower of fruit is provided to each point of the compass.

In the spring of 1910 the dreaded frosts which frequently ruin the crops of fruit during the period of blossom, did no damage, and by early June the crop on my 9,000 peach trees promised to be a record breaker.

I decided to seek one buyer and one market if possible, thereby cutting out commission men and a daily fluctuating market, such as I knew always befalls a fruit grower. I therefore made arrangements with a leading canning establishment in Baltimore to take the whole crop, and invited the president of the concern to visit me. He did so, inspected the growing fruit, and our basis of sale was \$1 for firsts, seventy cents for seconds, and forty cents per bushel for thirds, delivered in Baltimore. The only question open then was what constituted in size these grades.

By inquiry and considerable trouble, I found from reliable people in the trade, that a first was a peach measuring two inches and above in diameter; a second from one and a half to two

inches; and a third from one and a quarter to one and a half inches.

Backed by the expert opinion and previous acceptance by reliable firms of this standard of firsts, seconds, and thirds, in sizes as stated, I submitted a written contract to the Baltimore concern. They accepted this in all but one thing — they increased the size of the firsts to three inches and above, seconds to two and a half inches to three inches, and thirds from two inches to two and a half inches.

I immediately sent men to the Baltimore markets, at that time flooded with peaches from Georgia, to buy me a basket of peaches three inches in diameter. They were unable in the whole of Baltimore markets to do so.

The Baltimore canning company, seeing the prospect that fruit would be plentiful, took this means to crawl

out from buying my fruit, though under verbal contract, by practically throwing every peach in my orchard into third class. This would have given them from five to eight thousand bushels, delivered at their door, to net me about ten cents per basket.



The old Colonial house on the farm where the peaches were grown

I immediately tried to contract elsewhere for my output in every Western, Northern and Southern city, but with no success. No firm would make an offer, but every answer was almost monotonous in its phraseology. "We will gladly handle same for you on a commission of 10 per cent." Meanwhile I had applied to the railroad and express companies at my depot for their rates, and found that in addition to paying regular rates I must hire separately from the company which operates all the refrigerator cars on the road I must use, cars at \$40 each per day, and \$5 for each extra day. And to get even this rate, I must load a car with at least 17,500 pounds of freight, or should I only have ripe fruit enough for half a car, I must pay for the whole 17,500 pounds.

In desperation, seeing the efforts of five years in bringing my orchard into bearing a failure, and having lost two previous crops by frost, I began a desperate selling effort, confronted by an almost overpowering combination against farmer and public; a combination made up of railroads and commission men; a combination which makes the cost of living in cities fully 50 per cent. above what it should be. I appealed to the railroad for lower rates, which would allow me to market this big crop. The date now was June 30th and a delegation from the railroad came out to my farm, sent by the general freight agent. These men said, viewing the facts, that they were sorry, but for this year nothing could be done.

I said that something must be done and at once, and was given to understand that in any event, nothing could be done to lower the rate before thirty days, under the new law. This reply came to me July 12th. I found by sending a representative to Washington before the Interstate Commerce Commission, that they have the power to grant new rates with only *three days' notice*. The railroad apparently did not know this until told so by me.

In recognition of various letters and appeals by other fruit growers, the railroad granted a reduction of from five to ten cents per hundred pounds, while the refrigerator car company reduced their rates from \$40 to \$30, and a minimum car load to 15,000 pounds.

These rates even then only conformed to those in force from a town ten miles distant, but served by *two* competing railroads, where also refrigerator cars are provided for \$10 in place of \$30. These rates were put in force August 3d. My fruit was ripe and shipments began next day. At first the fruit ripened in spots on a few early trees, and these I was obliged to ship by express.

I employed as high as forty men, picking, packing, and loading; whom I cooked for, fed, and sheltered in tents; and kept from three to five teams on the road day and night hauling from orchard to depot, fruit one way, empty baskets back.

When I saw that fruit would ripen in sufficient quantity to be able to ship in car load lots, I applied to the railroad to furnish me a refrigerator car. This they had promised to do at any time, on twenty-four hours' notice.

My first notice to them was sent on Sunday for a car Monday. It came Wednesday; thereby forcing me to ship by express all fruit picked Monday and Tuesday.

On Wednesday morning early I was notified that a car was on the siding at my depot, so getting the men to work rapidly, by nine o'clock

beautiful peaches, barely enough to pay for the picking. I had to pay the railroad \$107.20 express, the commission man \$19.39. My claim against the railroad was fought by them at every point for over six months, and they finally settled on a basis of 75 per cent. This but cites one instance of many, in my efforts to get this most perishable fruit to market.

Two cars of my choicest fruit I sent to a New England city. The returns from 1,506 baskets were \$834.20, which less freight, \$390, commission and hauling, \$126.30, and baskets, \$90.36, netted me \$227.54, or fifteen cents for the fruit, with picking, packing, and my hauling not counted at all.

The consumer had to pay \$1.25 per basket for this fruit, for a friend of mine purchased a basket of this very consignment.

Is it any wonder that the cost of living is high?

Is it not plain why?

Is it right that the commission man, who cannot lose, should exact one tenth of the selling price, be it 10 cents or \$10, and should so fatten on the grower and exact often an extra commission from the buyer, with the only expense to him of rent? Or that the railroad should exact toll

beyond a fair return, whose franchise is a gift from the people?

My advice to those contemplating peach growing alone is "don't." My orchard of over a hundred acres has, however, to every three peach trees one apple tree, and these will, I feel, eventually tell a better story.

The question which arises naturally in the mind of any one who has followed the history of

this crop, is, what can be done to help the producer receive more money for his crop and the consumer to buy at a lower price?

To get the produce from the farm to market, transportation is a necessity, and this, unless the farm is situated near a city where farm teams can deliver direct to consumer, must be paid for.

The next proposition is, why is the commission man a necessity? He is not. The retail dealer is, because no large producer can find a sufficient number of individual customers to take directly his output. The obvious solution is an honest set of retail dealers, an honest farmer, and a direct shipment from one to the other.

That the average farmer is inclined to be dishonest or perhaps slipshod, I frankly admit. He is seldom apt in future shipments to live up to first samples. Instancing this, I gave a neighbor the address of a city dealer who would take all his poultry. The first chickens were perfect, the second lot so tough that the buyer was forced to telegraph, "Send no more," and this market was forever lost.

I advise every producer to mark plainly, with his own name and address, every shipment he sends out, adding thereto the exact quantity and quality.



At the packing table, showing the type of peach basket. 10,000 of which were marketed

we had the first load of 125 Delaware baskets, holding nearly half a bushel, on the way to the depot. When the second load was ready, the first wagon returned bringing a message that the car when opened contained decayed cabbages half a foot deep and making such a stench as to sicken the men and make its use for shipping fruit impossible.

Here we were with hundreds of baskets of fruit



A busy morning. All bruised or spotted fruit was discarded and fed to the pigs — an economic waste, for much of it might have made fine evaporated fruit, with the defects cut out

ready in orchard and now hundreds more on a depot platform, exposed to noon-day heat and rapidly deteriorating through no fault of mine. The railroad promised to clean the car at once, or to do the best they could to supply another as soon as possible. None came that day and the dirty car was hauled away.

That night in despair I shipped 560 baskets by express to New York. Twenty-four baskets were thrown away and for the balance I received a check for \$67.26, or about 11½ cents a basket. Taking out the cost of the basket itself, I received 5½ cents, or only \$30.80 net for 560 baskets of



CONDUCTED BY PHIL M. RILEY

## CAMERA WORK ON A COUNTRY ESTATE

7 — CHILDREN AT PLAY

CHILDREN in the family supply one of the most potent influences toward country living. Little logic is needed to prove that the open country, the green fields and woods, constitute a better, more healthful environment for both mother and little ones than the crowded city, provided, of course, that country living means for them the same comforts as a city home affords. It follows, then, that children at play will likely be one of the most productive sources of picture material about a country place. And a most enjoyable, amusing source it is. Until little folks reach the self-conscious age when they are on the alert for the significance of everything which goes on about them, there is a constant succession of genre subjects worthy to record with the camera, when that wonderful instrument is within reach at the right moment. Expressions and poses are fleeting with children; they must be caught unconsciously to be at their best, for the child is rare indeed who, knowing that the eye of the camera is upon him, can simulate indifference to it. And a self-conscious child is not an interesting picture subject.

No mother likes to have her children grow up and leave her. She takes pride in them at every age, but she likes always to remember them as small children. If she be a successful camerist she can live over with them in after years the days of their childhood, and when they leave her for homes of their own her album of prints will be one of her dearest treasures.

The outfit best suited to work of this sort depends very largely upon requirements. Rapidity of manipulation is necessary, because children move about quickly and one often sees two pictures in quick succession. Films in pack or roll form seem particularly desirable, because with them successive exposures are so easily brought into place; also the advantages because of daylight loading and development combined with non-halation and orthochromatic qualities of value for indoor work where there are extremes of contrast, and for bright-colored garments.

Splendid photographs are constantly being made of children with the most inexpensive

film cameras, but they are, of course, restricted to subjects in well-lighted spots outdoors, unless they are posed, and posed subjects usually lack spontaneity. An anastigmat of large working aperture is a distinct advantage, but many do not feel able to afford it. So far as speed is concerned a focal plane shutter will in effect increase the efficiency of any rectilinear lens three times, because the period of opening and closing of the usual inter-lens shutter is eliminated. This is equivalent to the average speed of an anastigmat lens with an inter-lens shutter, but of course, there is no improvement in lens quality as with the more expensive lens.

Focal plane shutters can be bought for attachment to any folding or view camera, and there is now on the market a small, compact focal plane camera of post-card size selling for \$30 not to mention several more expensive imported types. These are all fitted with direct vision view finders, which serve the purpose of the reflecting type of camera with its cumbersome folding hood. Naturally, reflecting cameras are splendid for photographing children, but they are expensive and possess the disadvantage of being rather conspicuous, which tends to warn the little subjects that they are being watched.

Enough has been inferred already to tell the reader that the writer favors those photographs which have been "caught." It is a fact that the best results are so obtained. If any posing is to be done, a woman will usually succeed best, but the easier and better way is to encourage the little ones to play in attractive and appropriate surroundings and then to watch them surreptitiously with an inconspicuous camera and wait for the opportune moment. The results may not be portraits in the strictest sense of the

term; but they are better than portraits, for they represent the little subjects, not stiffly posed in best bib and tucker, but in their "rough and ready" enjoying themselves to their hearts' content.



"A Young Gardener." By Mrs. Hugh Brinton

The gardens, grounds, piazza, steps of the house, the nearby trout stream and hay field all furnish appropriate settings. The chief point is to simplify the background, making sure that no obtrusive object is included which detracts attention from the real subjects.

Bright sunlight should preferably be avoided because strong shadows are cast upon the face and almost seem to distort it. The time when a thin white cloud passes over the sun is excellent, as is a bright misty day. In either case the light is strong and well diffused without strong shadows. The focus, of course, is upon the subject, disregarding all else. With a rectilinear or anastigmat lens no diaphragm is usually needed, and if one is used, the larger, the greater roundness of the figure and subordination of unessential detail. Certainly there is no need of an aperture smaller than  $f-8$ .

Exposure should be ample. Under-exposure is perhaps, more evident in photographs including the human face than in any other sort of subject. In diffused light or in the shade when the sun shines,  $\frac{1}{2}$  to  $\frac{1}{10}$  second, according to the surroundings, will give satisfactory results.

### PAPER PRINTS FROM AUTOCHROMES

AT LAST it is possible in one printing to reproduce an autochrome or any other screen-plate transparency in full colors on paper. Reproduction of colors is fairly accurate, but

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"Feels like a bite." By Mrs. Hugh Brinton



## THE NATURE CLUB

CONDUCTED BY JULIA E. ROGERS

The economic side of nature study appeals to the farmer, because he must fight his enemies—weeds, insects, rodents; he must defend his cultivated plants against innumerable competitors. The disinterested nature student, having no particular crop at stake, enjoys a viewpoint from which his eye sweeps a much wider plain. He sees the “noxious” plants and animals and insects pursuing their own business of getting their living, as if unconscious of the existence of man. And very interesting lives they lead, acting upon the theory that every creature has a right to life, liberty, and the pursuit of happiness. This month let us get acquainted with a few “varmints,” and try to see life from their point of view, not the farmers’.

### THREE FURRY NEIGHBORS THAT HAVE POCKETS

**N**OBODY starts and screams at sight of a squirrel in the park. This is because the squirrel is no longer a stranger. He is loved and petted by many people, and he has the confidence born of his friendly experiences with people whose pockets contain offerings of nuts or biscuits.

When the dead leaves rustle in the path in the woods, do you start and shrink and expect some venomous creature to leap upon you? We have all felt the natural dread of unknown dangers in strange places. Vacations are spoiled by such feelings, and this is a pity, because it is preventable. Ask of some well-posted person whether there are there any dangerous snakes or wild animals in the woods or fields about. In nine cases out of ten your fears will be relieved by a positive “No!” Another question brings the information that certain little rodents inhabit the woods, certain others the open spaces. And your interest is roused by facts in the life stories of these furry folk. You ought to make the acquaintance of some of them, by close watching, even though your vacation is a short one.

*Deer-mice.* Many wild mice are much more desirable acquaintances than their domestic cousins. In this immense family, the wood-mice are the most beautiful, and they appeal strongly to those who love to tame wild

animals. They are called deer-mice, possibly because of their fleetness, or their thick, dark fur, or their great, black eyes. “White-footed mouse” is a descriptive name, for the feet and legs, like all the under parts, are pure white, in handsome contrast to the rich brown of the upper parts.

At any time in midsummer it may be your good fortune to find a family of deer-mice in a nest deserted by a grown-up brood of song birds. Or they may be high up in a deserted nest of a woodpecker, in a hollow limb, or among tree roots, or branches, inside a globe of soft grasses, woven with a bird’s skill, and furnished with a self-closing door. Four or five young ones are born within this snug nest, and for a month they depend upon their mother. Then they go forth to make their own living, and a new brood occupies the mother’s attention. Four or five families in a single season keep her busy with her strictly maternal duties.

Frightened by your investigation of the nest,

the white-foot leaps out, but being a nocturnal beastie, she is confused in the light of day. You may capture her, and if you are gentle, she will not be afraid as she lies in your hand. See those black eyes, with the great pupils, made for the dim half-light. What large ears she has! How she turns them to catch every sound! The wide-spreading whiskers are to measure the width of crevices she tries to enter.

Possibly you have caught a deer-mouse just returning from a foraging expedition. If so the cheek pouches are full of seeds. Rarely are they gathered in field or garden, for seeds of various wild plants are hoarded in small hiding places, not in, but near, the nest. Bits of fat, bodies of insects, and like delicacies help out the menu. If disturbed, the patient collector of these provisions will come and get them, and not leave a seed nor a nut in the old place. Do the cheek pouches open into the mouth or on the outside?

The winter comes, but the deer-mouse does not sleep, like the bear. So granaries must be filled to last through the winter. The habit of saving is early practised. Have you seen the deer-mouse climb up to get the seeds out of the ripe rose hips? Have you ever had one enter your room and fill your shoe with seeds, nuts, and insects? A few of them venture indoors in autumn.

*The chipmunk.* All summer the friendly little chipmunk is interested in your walks. He keeps an eye on you, though at first the fact that you are taking notice of his doings overwhelms him with shyness and distrust. Sit still; speak evenly and softly, if you must speak; make no quick motions. After a little the chipmunk will take no notice of you.

His work of storing with grain and nuts the pockets along the course of his shallow runway proceeds. He tucks seeds and the richer nuts into his ample cheek pouches, and dives into the subway at regular and frequent intervals. Thus the appearance of busyness is not mere seeming.

The cheek pouches are, like those of the deer-mouse, merely baggy cheeks. All that the chipmunk packs into them goes in *via* the lips. One hand often pulls the mouth awry while the other



The chipmunk’s safest fortress is a pile of loose stones. Underneath are the storehouses he fills for winter



The pocket gopher is taken at a disadvantage here, for his life is nocturnal, his home a subway of his own making



The graceful deer-mouse, champion climber of its tribe, going home to its nest in the stone wall



Deer-mouse mother and family. Young deer-mice depend upon their mother for sustenance for about a month

(Continued on page 50)



CONDUCTED BY DAVID PHELPS

### THE SILO FOR A SMALL HERD



A small silo

**D**URING the last few years the silo has become one of the main factors in lowering the cost of production in the dairy herd. With high priced land the first requirement is to produce as much food value per acre as possible, and in this the silo certainly excels. One third of the value of the corn crop is found in the stalks. Under average conditions stover, or the

corn crop minus the grain, is shocked up and, due to leaching, loses considerable food value. When fed the stock do not consume the entire stalk but pick it over, merely making use of leaves and tender portions. Thus a great waste is always noticed in practical operations. With the silo, however, the entire crop is saved. Only a small percentage of waste is found on the top in the form of decayed or molded silage. A silo not only conserves the entire crop, but it stores the corn, both grain and stalk, in the smallest space where the minimum amount of labor is required to place it before the cows.

The ideal feed for dairy cows is grass, and no other feed approaches grass so closely as does silage. All cattle relish it because of its palatability and quite often will consume large amounts of silage even while pasture grass is tender and abundant. Although not a balanced ration in itself, silage can readily be made such by the addition of clover or alfalfa hay, together with some commercial protein concentrate. A

silage ration keeps the cows in a vigorous, healthy condition since it has, like grass, succulence and with it a laxative effect.

Silage reduces the cost of production to a marked degree. Successful dairymen, when asked if a silo is practical, answer that it is indispensable to profitable dairying. Mr. C. A. Nelson, one of Iowa's most successful dairymen, when asked if he liked his silo, said, "If I had to do without a silo I'd quit the dairying business." Practically speaking silage cuts in half the cost of producing milk or butter fat. An experiment was carried on in Ohio with ten cows. Five of them were fed a grain ration consisting of seven pounds mixed hay, two and one half pounds oil meal, six pounds bran, five pounds corn meal, and five pounds stover. The other five cows were fed a silage ration consisting of fifty-eight pounds silage, seven pounds mixed hay, two pounds oil meal, and two pounds bran. When the experiment was completed each hundred pounds of milk produced by the cows fed the grain ration cost \$1.06, while its cost from the silage fed cows was only sixty-nine cents. Each pound of butter fat from the cows fed the grain ration cost twenty-two cents, while from the silage fed cows it was but thirteen cents. The average monthly profit for each cow fed the grain ration was \$2.46; from the silage fed cows, \$5.86.

There are various kinds of silos. The three distinct and reliable kinds are the stave, the hollow tile or block, and the concrete. These each cost approximately the same amount. A 12 x 34 ft. stave silo would cost very nearly \$360 when set up, while a hollow tile of the same size would run very close to \$300. The concrete silo would cost in the same neighborhood. Without doubt the block and concrete silos would be most durable. Suffice it to say that each is serviceable and that personal likes and local conditions would determine a choice.

The size of silo to build must be determined by the number of cows to be kept. It hardly pays to build a silo for less than ten cows. For a herd of that number, the size of silo would be figured in this way:

Each cow would eat about forty pounds of silage a day. In a herd of which ten are giving milk there would probably be ten head of young stock for which it is necessary to figure twenty pounds of silage per day. Supposing that the herd of ten cows and ten head of young stock are to be fed silage for 180 days, then the total amount of silage to be put in the silo is figured thus: ten cows multiplied by forty pounds per day is 400 pounds; this multiplied by 180 days is 72,000 pounds of silage. Ten young stock multiplied by twenty pounds per day is 200 pounds; or 36,000 pounds silage for 180 days. In other words the silo must be built to hold fifty-four tons of silage and yet be of such a diameter that by removing two inches each day you will have secured 600 pounds of silage, or the daily amount for the herd. By either figuring out the capacity or referring to a silo table it is found that a silo 12 x 28 ft. if filled to the top contains slightly over fifty-four tons and is of such a diameter that two inches of silage from the surface weighs slightly over 600 pounds. But before deciding the exact size remember that silage settles one fifth of its height after standing, so that in order to have a silage depth of 28 feet the silo would have to be built one fifth higher, or about 34 feet. Therefore, a silo to feed ten cows for 180 days should be built 34 feet high and 12 feet in diameter.

If instead of feeding the cows for only 180 days it is desired to feed them silage throughout the year, two separate 12 x 34 ft. silos should be built, since in a silo of larger diameter the removal of two inches would be more than the amount the herd could possibly consume in a day and would result in molding and excessive waste.



A stave silo in process of construction, showing the scaffolding still up



A wood silo is less durable than one of concrete



Concrete block construction is ideal for both appearance and durability



The size of the silo is determined by the number of cows kept

Silage is best when put up at the right time. Much has been said and written as to the correct time for cutting. However, from the practical standpoint corn should be cut and made into silage at the very time when it would be cut to make the best fodder. At that period, when the kernels begin to dent, the moisture is not too great and is yet sufficient to allow the corn to pack closely and force out surplus air, thus insuring the keeping qualities. The corn is fed into the silage cutter which forces the finely chopped stalks and grain through a conducting pipe set up to and emptying at the top of the silo.

THEO. MACKLIN

### CAMPINE FOWLS

THIS breed of fowls has evidently "come back," judging from the increased numbers on exhibition at the last winter's show. The Belgian Campine was admitted to the American Standard in 1893, but apparently on account of lack of interest, was dropped in 1898. The reason now given for this by those interested is that, at that time, birds imported from their native Belgium were too small, and far below the American ideal as to plumage and fancy points, and the Americans didn't have the patience to breed them up. When we consider how many beautiful breeds and varieties of fowls have been created and perfected by American breeders, this last statement doesn't seem very plausible. Be that as it may, the Belgian Campines have been bred for many generations for the production of eggs, regardless of style of feathers. The hens are non-sitters, mature early, and begin to lay young. The climate of their native country is very trying, hence we have a hardy fowl. Lewis Wright classed them as among the best layers known.

There are two varieties — Silver and Golden. The Silvers lay large white eggs, but the Golden I have seen in New Jersey lay tinted eggs. I know one breeder who is crossing the two varieties with the object of producing Golden that lay white eggs. Some one else may already have those which do so. To produce eggs and lots of them is the mission of the Campine. The pure Belgian Campine is the product of centuries of breeding on the dry sandy plains of La Campine, where natural conditions necessitate a constant hustle for existence, hence the resultant small, active bird. These were the birds that were brought to this country in the last century. The "New" or "Improved" Campine has been dressed in more attractive feathers and increased in size, possibly by the admixture of Braekel blood. The latter breed is said to have been of the same blood originally, but through being raised on the more fertile soil of Flanders, the birds attained a larger size. The Braekels I have seen in this country bear a striking resemblance to the Campines, but are larger, coarser, and lack the trim appearance of the latter. The English type of Campine is said to be about the size of the Belgian Braekel. The breed is not especially recommended for market purposes, but the chicks are said to be very plump and excellent as broilers. The flesh of the mature birds is also claimed to be delicious.

In size, style and general appearance, aside from its differently colored clothes, the Improved Campine is much like the Leghorn, but it

is said to distribute its egg product more evenly throughout the year. One breeder claims that the eggs average twenty-seven to thirty ounces to the dozen, "or more," and that flocks "average 175 to 200 eggs each in 365 consecutive days." We are told of "individual yields of 250 being reported." The three chief points which are given as commending the breed are size of egg, number of eggs laid, and hardness.

The color of the Improved Silver Campine is described as "a silvery white ground, overlaid by markings or barrings of black having a rich beetle-green sheen, except the neck hackle, which is a silvery white without barrings. The dark barrings are much wider than the white bars."

The Silver Campines have a very graceful carriage, and with their pretty markings and bright red single combs, make very attractive birds. The eyes are nearly black, the legs a leaden blue, and the skin white.

The Campines are said to breed very true to color and type without resorting to double mating. Their breeders claim that they are small feeders — an important point in these days of high prices.

Experienced Silver Campine breeders advise against the use of a male with a light back or saddle. They also advise the selection of birds well matured, with clear-cut markings, the females as uniform as possible, and the male strong in any points in which the females may be weak. One breeder says:

"The one great difficulty in breeding exhibition Campines is to combine in one and the same bird (a) good clean neck hackle, (b) good breast, and (c) good markings on the upper part of the body. It is easy to get any two, but very difficult to get all three points."

The Golden Campines are the same in plumage as the Silvers, except for a rich golden color in place of the white. And it is emphasized that it should be a rich gold and not a washed-out yellow. It is probable that the Golden Campines are not of such ancient lineage as the Silvers, hence may be subject to improvement.

F. H. VALENTINE.

### THE ONE-EYE COLD

THIS is a disease common to poultry and pigeons alike, old and young. Although it may occur at any time during the year, it usually manifests itself in the late summer and early fall, and is easily mistaken for roup.

The origin is invariably the same in all cases — too heavy or concentrated feeding; and the disease is found mostly among flocks that are penned in small yards without the proper amount of green stuff in proportion to the heavy, rich grain food.

While this disease is a serious one it is not necessarily fatal in any

case if taken in hand promptly, but when neglected it will make deep inroads in the flock.

The afflicted bird is at once noticeable and very conspicuous, one eye being inflamed and watery and the cere much enlarged. The bird is temporarily blind in this eye and can be approached and easily caught. In neglected cases the eye becomes filled with pus and the sight may be entirely destroyed. These are the only apparent symptoms, for the bird maintains a good appetite and does not mope or droop; in fact, viewing the bird from the side not affected, one would not suppose there was anything the matter with it. Invariably only one eye is affected, even in the worst cases.

Being a highly contagious disease, the afflicted bird should be removed immediately and the keeper must be on the lookout for any further developments in the flock. Sometimes one or two birds more greedy than the rest will be the only ones to contract the disease, but it is always well to modify the diet of the whole flock, to be on the safe side, and feed more liberally of green stuff.

The afflicted bird should be placed by itself in a dry, sheltered coop and the eye bathed with olive oil into which carbolic acid has been well stirred. One drop of the acid in a tablespoonful of the oil is as strong as it should be used for this purpose. Too much of the acid will destroy the eyesight. Application is made with a small piece of soft linen or a bit of absorbent cotton. One application is usually enough, but if a second is needed, as in neglected cases, use a fresh bit of cloth or cotton. The diet should be very light and the drinking water contain a crystal or two of permanganate of potash, just enough to color the water a decided pink. The affected birds should be kept away from the flock fully a week. It takes two or three days to reduce the inflammation and dry up the watery condition of the eye, and three or four days longer should be allowed for the disease scales to work off before the birds are returned to their regular quarters.

Little chicks that are heavily fed without the daily addition of some green food, readily develop the one-eye cold. The treatment for them is the same as for older birds, and if carefully carried out need result in no fatalities. P. B. RUGGLES.

### IN THE HENHOUSE

TO DISINFECT coops or chicken houses, clean them and then wash thoroughly with water containing four ounces of sulphuric acid to the gallon. Spade up the runs and scatter carbolate of lime freely about the house.

If you haven't a supply of road dust for your hens, a good substitute is to sift coal ashes through a fine sieve, and give them the dust for a bath. Wood ashes are not good for the purpose as they will bleach the legs of the fowls.

PHOEBE THAYER



Campine cock. He was a noted prize-winner in England before coming to this country



Pen of Silver Campines shown at the Crystal Palace in England last summer, and since brought over to this side



CONDUCTED BY MADISON R. PHILLIPS

[The object of this department is to give a few suggestions which it is hoped will prove of value to the American who travels abroad. Further information as to where and how to go will be supplied as promptly as possible by the COUNTRY LIFE IN AMERICA Readers' Service.—THE EDITORS.]

### THE DANGEROUS SPORT OF MOUNTAIN CLIMBING

THE recent death, in England, of Mr. E. Whymper, one of the most celebrated Alpinists, lends renewed interest in the great number of fatalities among mountain climbers. Mr. Whymper, it will be remembered, was one of the three survivors of the ill-fated party of seven, consisting of four Englishmen and three guides, which first ascended the great pyramid of the Matterhorn in 1870. For years the grim demon of the Alps had defied all attempts to scale its proud summit, until Mr. Whymper's party finally gained the heights.

Exulting in their success, they had started the descent, when someone slipped, dragging three companions with him over the edge of the cliff. The remaining three braced themselves to try and save their companions with the rope, but it broke, sending the hapless victims crashing down hundreds of feet into the icy abyss below.

Mr. Whymper never forgot this terrible experience; his memoirs state that the blanched faces of his companions were often before him in his dreams and waking hours, their shrieks echoing in his ears. In his "Last Words on the Matterhorn," Mr. Whymper says:

"So the traditional inaccessibility of the Matterhorn was vanquished, and was replaced by legends of a more real character. Others will essay to scale its proud cliffs, but to none will it be the mountain that it was to its early explorers; others may tread its summit snows, but none will ever know the feelings of those who first gazed upon its marvelous panorama; and none, I trust, will ever be compelled to tell of joy turned into grief and of laughter into mourning.

"It proved a stubborn foe; it resisted long and gave many a hard blow; it was defeated at last with an ease that none could have anticipated, but, like a relentless enemy, conquered but not crushed, it took terrible vengeance.

"The time may come when the mountain shall have passed away, and nothing save a heap of shapeless fragments will mark the spot where the great mountain stood; for, atom by atom, inch by inch, and yard by yard,

it yields to forces which nothing can withstand. That time is far distant, and ages hence generations unborn will gaze upon its awful precipices, and wonder at its unique form.

"However exalted may be their ideas and however exaggerated their expectations, none will come to return disappointed."

Each year the Matterhorn exacts toll from aspiring climbers; the little village churchyard at Zermatt bears mute witness to this fact, yet it is not alone in its lure of death. The Swiss statistics for the past year show that 115 people lost their lives on the various peaks during the season, the Jungfrau and Mt. Blanc claiming a large proportion of the victims. Just as the Matterhorn is noted for its steep, rocky slopes and awful precipices, so are the Jungfrau and Mt. Blanc noted for their immense snow fields, and glaciers hanging down the mountain side like great icicles on a snow-clad roof. That the danger in these regions is not exaggerated is recalled by the fact that some years ago eleven people, including two Americans, were caught in a severe snow storm, lost their way, and all perished on hoary old Mt. Blanc.

In the village square at Chamonix stands a monument to two of the early conquerors of Mt. Blanc, the guide Balmat and his wealthy Italian patron, De Saussure. The former is pointing the way up the mountain, whose summit he himself was the first to scale, and upon whose snowy slopes his life afterward paid the forfeit.

Looking upward, we, too, may gaze upon these Olympian heights of snow and ice, or, if we use a nearby telescope, may even see a party, attached by a rope, struggling toward the summit. The ascent is made nearly every day during the season, and with good weather and expert guides, is reasonably free from danger. Alpine storms, however, are noted for their sudden and terrific fury, and woe be to the party caught in dangerous places without guides. The statistics quoted above show that of the 115 victims the past season, only 2 had guides; 13 perished while in search of the elusive edelweiss. A recent fall of snow may hide a yawning crevasse, known only to the experienced eye of the guides, who, trained to the work, have spent their lives under the shadow of these Alpine giants. True, the charge for guides is somewhat high, ranging from \$25 for the less difficult peaks, to \$150 for the services of two guides and a porter for the longer climb up Mt. Blanc and return, including meals, lodging and minor expenses for the party at the Grands Mulets, or half way house. Sharing the expense, this would average \$50 a person, for a party of three.

Charges for guides are regulated by the Swiss Alpine Club, and, all things considered, are not excessive; their calling is hazardous and they are held accountable to the law for the safety of a party.

In the olden days of Whymper, Hudson, and Tyndall, names glorious in Alpine annals, climbers did not have any of the shelter huts or inns perched here and there on a protecting ledge to afford a good night's rest. The Swiss and foreign alpine clubs, whose combined membership is estimated at a hundred thousand, have also done good work by establishing a system of wire ropes at especially dangerous spots, making the path of the upland wayfarer easier.

Odd characters are met with in the cosmopolitan crowds at the various mountain climbing centres; the hurried American, wishing to do all the peaks in a day; the stolid Teuton, always carrying a pack, and taking the task of mountaineering very seriously; the Tyrolean, usually out for a good time, and proud of his jaunty costume, with the inevitable cock's feather stuck in his



Climbing an Alpine peak is hardly a sport for the average woman, yet many of the gentler sex are adopting it, and the more sturdy, cautious, and persistent are making enviable records

cap. Then there is the Englishman with his monocle, knickerbockers, alpenstock; always correctly dressed to "look the part," though his actual acquaintance with climbing is often extremely platonic. However, we must not consider our Englishman as simply an oddity; the exploits of the English in subduing the giants of the Alps have been remarkable.

Now the question arises, what does this sport involve and what does it require in the way of an outfit? Good health, plenty of leisure to choose your time for a climb, a cool head and the proper enthusiasm, are the prime requisites. No one engaged in a sedentary occupation should think of attempting a high climb; many of the fatal accidents are caused by fortnightly or even "week-end trippers" trying a peak worthy of an expert. The novice might do well to try a place like Grindelwald, where he may test his powers on a comparatively easy peak like the Faulhorn, until he is competent to scale the higher summits.

You will need warm woolen clothing, à la Tyrolean if you choose, strong hob-nailed shoes, alpenstock, strong knife, colored spectacles, drinking cup, pocket lamp, compass, barometer, arnica, and a "bottle," containing something stronger than tea, in case of accident. The guides will attend to the provisions, ice axes, ropes for glacier crossing, etc.

Mountaineering in the higher Alps involves fatigue, danger and expense. Is it really worth while? Why not make use of one of the many cog roads ascending to points of vantage (it is a poor hill in Switzerland which can not boast of an incline railway) or, imitating genial Mark Twain, do our mountain climbing from below, with a telescope? Ask any genuine Alpinist who has dared the summits of the Weishorn, the Jungfrau, Mt. Blanc or the Matterhorn and he will laugh at you in fine scorn.

Dolomieu, the noted French geologist, and conqueror of many Tyrolean peaks, perhaps was right in his viewpoint when he wrote:

"Every year I devote myself to new researches, and to acquiring a kind of enjoyment little

known by the rest of mankind; that of visiting Nature in some of her loftiest sanctuaries.

"I ask of her an initiation into some of her mysteries, believing that she admits to them only those who sacrifice everything for her, and who render her continual homage."

W. A. ROWLEY.

#### THE JAPANESE UMBRELLA PINE

AMONG the many beautiful evergreens that thrive so well in the eastern United States, and which have come to us from Japan, no one is likely to attract attention more universally than the one commonly known as the umbrella pine (*Sciadopitys Verticillata*) or Koya-Maki of the Japanese. There are probably few trees of it that have yet gained any considerable size here in America, though there are many vigorous young trees throughout the eastern states, at least, which give every promise of being suited to their adopted surroundings.

It is a tree peculiar to Japan, not being found in a native state in any other part of the world, and its habitat is limited to the upper half of not more than half a dozen mountains. In these special sections it is a conspicuous forest tree, growing about as rapidly as our eastern American hemlock. Where it grows intermixed with Japan cypress and cryptomeria, in the long run it becomes overtopped by them, but even under these conditions it is long in giving up, as it seems to be able to thrive or at least to exist under the dense shade of overhanging trees. Its best development is on the mountain sides, when it forms a pure forest growth by itself. Under these conditions it runs up with straight trunks sparingly branched with foliage often all the way from the ground and a heavy growth at the top. Trees having reached a diameter of two to three feet of trunk and forty to fifty feet of height make very slow further growth, and with old age grow thin at the top rather than losing their lower branches as is common with most pines and spruces.

The seed cones are abundantly produced on

the mature trees and are about the size of the pitch pine cones of New England. Seedlings are very slow and difficult to raise. They germinate in the autumn and, unless the conditions are very favorable, soon perish. The only place where the writer found seedlings coming up naturally was in quite dense shade where undoubtedly moisture prevailed the entire season. The Japanese nurserymen claim that they are exceedingly difficult to raise from seed in the usual nursery way, and if successful it takes at least five years to get seedlings up that number of inches. Certainly the small nursery seedlings the writer saw were not promising. It is said that most of the stock of this evergreen that finally reaches salable sizes in the nurseries is grown from collected seedlings.

This interesting evergreen has evidently been long held in high esteem by the Japanese, for you will find specimens of it that have been planted in very honorary places about the temple grounds, often enjoying the distinction of a place on either side of the steps leading up to most important temples. At Nikko there are several very old specimens about the temple grounds. One to the left just inside that gate leading to Ieyasu's mausoleum is said to be the identical tree this great personage, Ieyasu himself, carried about with him in his palanquin when it was still young enough to be held in a flower pot. If this is correct, this tree must be at least three hundred years old. Being surrounded by much taller cryptomerias for many years, it has undoubtedly had a hard struggle. While thin of foliage it is fairly well furnished quite to the top and shows no signs of early demise; in fact, it is quite venerable in appearance. This tree is perhaps sixty feet high and the trunk is two feet and more in diameter at the base. Many other trees of this interesting evergreen have been planted in conspicuous places about the Nikko temples. They bear every evidence of great age and are in a good state of health, indicating that it is a long lived tree under favorable conditions.

(Continued on page 58)



That the dangers of Alpine mountain climbing are not exaggerated is proved by the fact that 115 persons lost their lives in this way last year



Tunnel railways and this aerial cable line up the side of the Wetterhorn over the Grindelwald Glacier furnish a safer means of climbing than on foot





## A MASSACHUSETTS MODIFICATION OF THE COLONIAL

By MILDRED STAPLEY

**I**N OLD Dedham, Mass., it would be a sort of architectural heresy to build anything but a Colonial house. That of Mr. A. E. Thayer, on Lower Street, is Colonial, but with certain modifications that tend to reduce the austerity of that time-honored style. For instance, its main exterior feature, the entrance porch, has lost that "for-Sunday-only" look that characterizes the stolid Doric portico of the old New England house, and has taken on a thoroughly homelike and hospitable look because of the informal little trellis interloping between the columns. Then the chimney, by being painted white, is made to look like an ancestral one left standing after some disaster, and around which the new house has been built.

The exterior is of wide 10-inch siding-boards painted a delicate Colonial gray. The trimmings are white, and the roof shingles moss-green. This pleasing combination of tones sets against a background of woods. Across one end of the house and run-

ning partially around the back is a broad piazza, which overlooks an attractively laid out flower garden; and only a hundred feet away from the

rear of the house runs a little brook skirting the edge of the woods.

At right angles with the rear of the piazza is a servants' wing, complete in itself, and placed so as not to be seen from the road.

Except for the dining-room finish of red birch, the interior is white enamel; blue and buff are used as contrasting colors in the dining room, French gray in the halls, and soft green and gray in the living-room. The rooms are, above all things else, restful to the eye.

The plan is exceedingly simple; living- and dining-room lie each side of the hall, and run the full depth of the house. Above are five master's bedrooms and two baths, and on the third floor is a billiard room. The basement is bright and airy and holds laundry and drying rooms. One may well consider that the architect (Mr. James Purdon) has given in this house the maximum of comfort and good looks that can be attained within the \$8,000 limit.



The informal little trellis outlining the entrance porch gives it a homelike and hospitable air



The hall is broad and airy, the stairs rising from the centre of it, with arched openings on each side at the back



The dining-room, on the opposite side of the hall from the living-room, is charming with its color scheme of blue and buff

## A SEASIDE HOUSE

A DELIGHTFUL SOLUTION OF THE PROBLEMS OF SEASHORE BUILDING—A HOME BY THE SEA THAT IS BUILT FOR WINTER COMFORT AS WELL AS SUMMER COOLNESS. RESIDENCE OF GEORGE B. HOLBROOK, ESQ., HYANNISPORT, MASS.



The house faces south toward the sea, a narrow strip of lawn intervening between it and the sea-wall. The entrance porch is at the west. G. Wood Taylor, architect



East view, showing the lawn and water tower. The exterior of the buildings and of the fence wall is cement; the sea wall, reinforced concrete, 14 feet high. The grounds comprise three quarters of an acre, with about 300 feet of shore front



Side aspect of the pergola porch, which commands an unobstructed view of the water. The pillars are of reinforced concrete and the floor of tiles; while awnings are available to temper the heat of the mid-day sun



East end of the den, shown on the floor plan as the library. The paneling here, as in the living-room and hall, is in chestnut

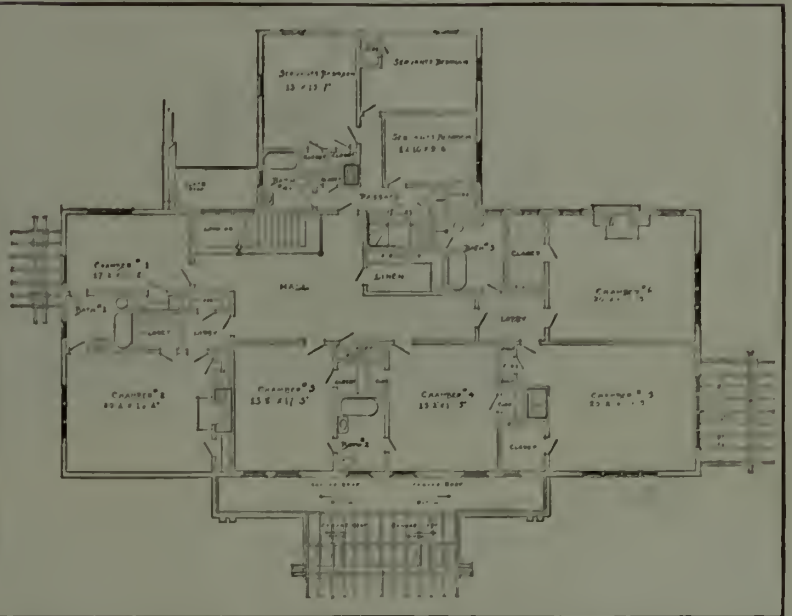


The fireplace, end of the great living-room, with a glimpse of the sun room at the right and the dining-room at the left



The dining-room faces north and east, but it is bright and cheerful, for it opens into the sun room on the south. It is finished in white enamel and old rose

The living-room, library, and hall are finished in chestnut stained a very light brown, and all floors are hard wood, waxed. West end of the living-room



The great living-room, 40 feet long, is the feature of the first floor, although the rooms are all of good size

Second floor plan. Note how the service portion, with its bathroom, is isolated from the rest of the rooms



One of the nine second-floor bedrooms. All the chambers have white enamel wood work and are finished in various tints of oil, no papers being used

The sun room connects with the dining-room on one side, and the living-room on another. The woodwork here is chestnut stained a light green

# A COMBINED GARAGE AND GREENHOUSE

By LOUIS G. BEERS

Photographs by C. W. KIMBALL

TO design and have constructed a building for the storage of two automobiles, together with repair and tool room, and a small greenhouse, and also afford living quarters for a man with a wife, was the problem; how it was solved is stated below in detail.

The room for automobiles is 17 x 20 ft.; the repair and tool room 8 ft. 6 in. x 17 ft.; the greenhouse 8 ft. 6 in. x 12 ft., giving about 100 square feet of earth. Opposite the greenhouse is an arbor which serves as a support for grape vines, and these, when in leaf, shield from view two large boxes for dirt, leaf mold, etc. and cans for liquid fertilizer and refuse. All this space is paved with brick.

The width of the building was restricted to 18 feet, as this is the longest timber that can be employed for joists which will be strong enough for the floor without reinforcing with iron rods.

The main floor of the garage is cement, with a concrete base 4 inches thick, consisting of six parts trap rock, three parts sand, and one part cement. The top coat is cement, 1 inch thick, consisting of two parts bank sand and one part cement.

A drain was placed in the centre of the floor and the four sides of the floor sloped to it to carry off water when washing cars.

The entire roof is sheathed with 1 x 8 in. yellow pine, planed on one side, and covered with tarred paper and standard roofing slate.

Beneath the tool room is a cellar of corresponding size, which affords storage for vegetables, bulbs, and garden requisites. Shelves occupy the right hand wall of the tool room, running from floor to ceiling, for holding boxes, small tools, insecticide, etc.



The greenhouse side of the garage, showing the vine-covered arbor which conceals unsightly gardening adjuncts

Part of the rear wall is wainscoted from floor to ceiling with tongued and grooved beaded boards, and hooks placed at convenient intervals for hanging up garden tools.

The ceiling and walls, both inside and out, are plastered, steel wire lathing being used and applied directly to the studs.

The exterior covering on the lathing consists of a scratch coat made of lime, hair, cement, and sand, mixed in the usual proportion; that is, three pounds of hair to the bushel of lime, and three of sand to one of cement; or, there should be enough cement mixed in the mortar to make it set quickly. The second or brown coat is composed of three parts sand and one part cement. The finishing coat is the same composition, but with white crushed spar floated on the outside.

The foundation walls of the main building are 16 inches thick, laid up with regular building stone and cement mortar. The walls of the main garage are 3 feet deep, to overcome any tendency that frost might have to throw them. The walls around the cellar part are deep enough to give 6 ft. 6 in. head room in the cellar.

While building the walls,  $\frac{3}{4}$ -inch anchor-bolts, 2 feet long, with washers 2 x 2 x  $\frac{1}{2}$ -in. were put in at intervals of about 8 feet, with enough projection to go through a 4 x 6 in. plate.

The foundation walls of the greenhouse were laid of brick 9 inches thick, extending 3 feet below and 3 feet above the grade line. Anchor bolts of the same size as those put in the main foundation wall were put in each corner of the greenhouse wall, holding a 4 x 6 in. plate.

The partition between the garage proper and tool room has an opening 7 feet square to which were hung two wooden doors, covered with tin. The car can be rolled in from the main floor, through this large opening, to the tool room floor, over a 3 ft. 6 in. x 4 ft. trap door, giving access to the engine from below. This answers the purpose of a pit.

The trays in the greenhouse for holding soil were cast of cement. They are partly supported on the walls and on a  $\frac{3}{4}$ -inch pipe frame around the aisle.

There is a small hot water heater in the corner of the tool room, which also supplies heat for the greenhouse. Pipes are hung on two side walls, under trays. There should be one foot of radiation for each three feet of glass area.

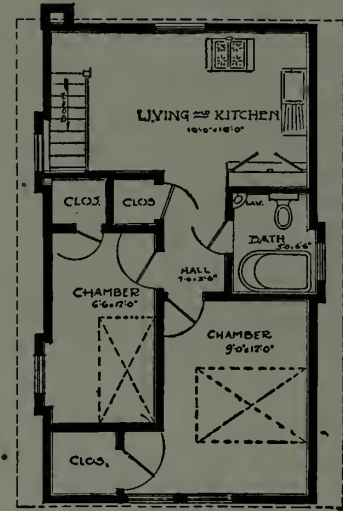
Gasolene is supplied by a tank located about 10 feet from the building, 3 feet under ground, which is pumped to the farthest end of the large room.

The cost of the plant is as follows: mason work, \$400; carpenter work, hardware and glass, painting and roofing, \$1,132.01; electric light wiring and fixtures, \$25; cement floor, \$57.24; brick paving, \$17.29; digging cellar, \$40; tank for gasolene, \$48.58; plumbing, sewers, stove, and piping, \$200; architect, \$125; driveway, \$154.27; making a total of \$2,199.39.

The living quarters on the second floor have not been finished; to heat them in

connection with the garage, would require more extensive facilities. The cost to complete in every detail as described, is estimated at \$450, so

that a fair valuation of the plant would be from \$2,400 to \$2,600, depending on the location and varying cost of material and labor. Here, the union scale for carpenters is fifty cents per hour; masons, sixty cents; plumbers, sixty cents; and day labor commands \$2 per day.



Plan of the second floor

The material used was best quality, and probably the market price has seldom been higher.

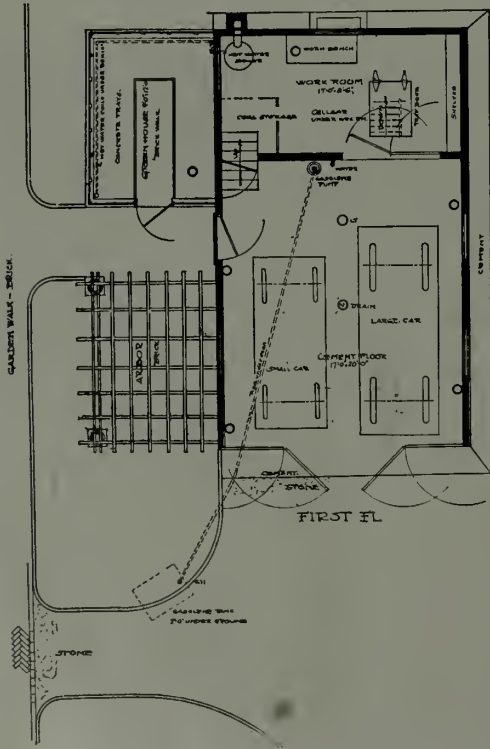
The cost of the building proper, due to situation, was not high; the water supply cost was disproportionate, as 400 feet of trenches had to be dug, half of which was on the public street; also, the driveway was expensive as the men worked at a disadvantage. It is well constructed, being about three feet of stone and cinders, with a top finish of broken stone.

The building is rated by insurance companies the same as brick construction.

This plant has been in use about a year, and in that time very few changes have been suggested. It is concluded that it satisfactorily meets the requirements for which it was intended, and it is a question whether it is possible to design a more attractive place affording equal facilities at as low an expenditure.

## WAXING CEMENT FLOORS

BEING very porous, cement floors must first be filled. Shellac varnish is particularly suitable for the purpose because it dries so readily. Two thin coats of orange shellac will give an excellent foundation for the subsequent application of ordinary floor wax applied with a cloth or brush and polished with a weighted floor brush in the customary manner. P. M. R.



Layout of the lot, with floor plan of the building



The completed building as it appeared before the bareness was relieved by the growth of planting

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to the Call  
of Summer*

*And by  
Command of  
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*Revers Model, illustrated, of serge  
de soie, braid trimmed, \$8.50*

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## The Right of All the Way

Railroad service and telephone service have no common factors—they cannot be compared, but present some striking contrasts.

Each telephone message requires the right of all the way over which it is carried. A circuit composed of a pair of wires must be clear from end to end, for a single conversation.

A bird's-eye view of any railroad track would show a procession of trains, one following the other, with intervals of safety between them.

The railroad carries passengers in train loads by wholesale, in a public conveyance, and the service given to each passenger is limited by the necessities of the others; while the telephone carries messages over wires devoted exclusively for the time being to the individual use of the subscriber or patron. Even a multi-millionaire could not afford the exclusive use of the railroad track between New York and Chicago.

But the telephone user has the whole track and the right of all the way, so long as he desires it.

It is an easy matter to transport 15,000 people over a single track between two points in twenty-four hours. To transport the voices of 15,000 people over a single two-wire circuit, allowing three minutes for each talk, would take more than thirty days.

The telephone system cannot put on more cars or run extra trains in order to carry more people. It must build more telephone tracks—string more wires.

The wonder of telephone development lies in the fact that the Bell System is so constructed and equipped that an exclusive right of all the way, between near-by or distant points, is economically used by over 24,000,000 people every day.

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## THE NATURE CLUB

(Continued from page 40)

stuffs in the nut or acorn that is the last one that can possibly be accommodated. When the other side is crammed till it will hold no more the agile chipmunk hies himself to the burrow in a rock pile or other shelter, and dumps his load in the appointed storehouse. Or he may deposit it in little caches, under leaves on a lawn, or among the roots of a tree.

Have you ever watched the little fellow filling his cheeks, and putting away his stores? It is worth following up—if you are not short of time. So well he hides them, you may miss finding a couple of pocketfuls, though you marked the place accurately with your eye, and dug with the utmost care on the very spot. It is most disconcerting to be outwitted by this cunning, chattering sprite.

In his runways, *Tamias*, the steward, begins in summer time to collect seeds. Corn and nuts by the peck he will lay up later for winter use, and he, a hibernator, at that! But his sleep is never sound and unbroken, like that of the bear and woodchuck. A warm spell brings him to the surface. He is late in turning in, too, and feasts after going below, before settling down. There is more food laid up than in reason will be needed for the longest, severest winter. No boy with kindly instincts would bring himself to steal the store of nuts laid up by a chipmunk. But some boys do just this.

How the chipmunk carries the dirt he excavates is not known. It is not believed that he fills his pouches with it, ever. What can you discover on this unsettled point by close watching?

*The pocket gopher.* Any boy on the prairies of the Middle West can tell tales of endurance races with burrowing pocket gophers that rouse our sincere sympathy with both contestants. They work like Trojans (if Trojans worked as hard as boys and rodents of the burrowing sort) digging a subway. The boy hopes, with the dog's encouragement and help, to catch up with the gopher whose excavating is easily heard by the two pursuers. Rarely is such a boy able to hold out; the race is to the swift. Dog and boy go home, weary and crestfallen.

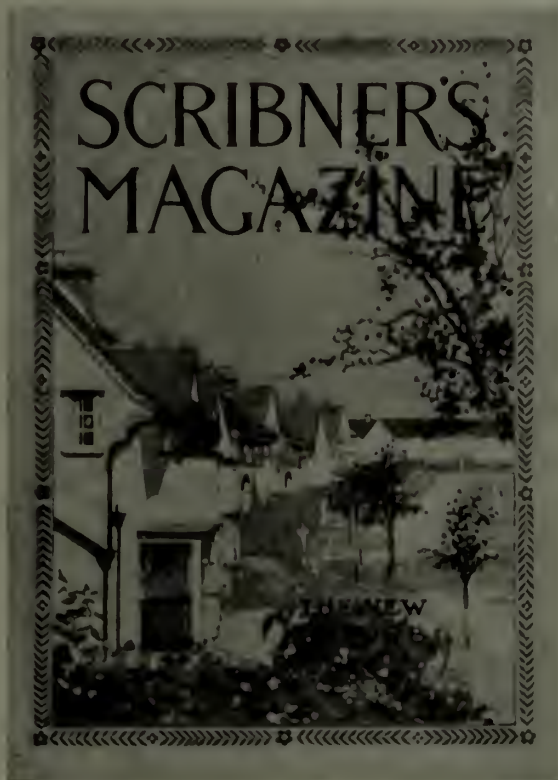
The pocket gopher wants little here below, but he wants that little in the form of succulent roots and tubers. Potatoes are his delight, and he takes them fresh from the hill. The tender roots of young orchard trees he will remove in a short time, leaving the region before the leaves wither and thus call the owner's attention to the damage done. Corn and other grains are harvested by the gopher as fast as it is planted or sown, and in the autumn he takes toll of the grain fields. Because he works at night he has the farmers at a disadvantage. They can trace his tunnels by the piles of fine earth thrown out at intervals by the digger, and familiarly known as "gopher hills," dotted across lawns and fields in zigzag lines.

Mr. Whedon has caught a pocket gopher on top of the ground, and his camera shows the creature at bay. See how little are his eyes and ears, how big and strong the forefeet, with the three middle toes armed with long, hooked claws, curving inward—admirable digging tools. The mouth is armed with large cutting teeth, like a squirrel's, above and below, in front. With these the animal cuts off tough roots with remarkable speed, and snips up tender grass and herbs into convenient lengths to carry in the fur-lined cheek pouches. These pockets open on the outside, and when full, give the gopher a most ludicrous expression.

How are the pouches filled? First the teeth cut the root or vegetable into suitable pieces, which then are tucked into the cheek pouches by the clawed hands. When they are packed full, the gopher goes to the storehouse. Putting a paw behind each pouch, pressing hard, and moving them rapidly forward, the gopher empties the two with neatness and despatch. No dirt is ever carried in the cheek pouches. Of this fact observers are very sure, though they do not know why.

The hind feet are longer than the front ones, and armed with short claws. With these the fine dirt torn out by the front claws is crowded back into the burrow, as the animal bores its way ahead. The body is scarcely eight inches long, and is comfortable in a burrow three inches in diameter. The fur is thick and soft and brown; the tail, scantily hairy, ends in a bare

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stump that is the chief organ of feeling. The snub nose must be calloused by grubbing at the hard wall of earth that the claws tear away.

One gopher may dig a mile of winding burrow in a year, in the pursuit of his preferred food, which he stores along the line in pocket-like alleys. A single brood of young are born each summer. And each gopher leads a solitary life as soon as he reaches the age of self-support. These animals are ugly in face and in temper, and quarrel if they meet. Yet, taken singly, they are interesting pets.

The farmer must not forget that much of the fertility of land is due to the gopher he hates so fervently. Think of the tons of soil that are pulverized and carried to the surface, honey-combing the land, so that it can hold the rain, like a sponge; burying the grass roots, so that the sod will become rich prairie loam. Such plowing as moles and gophers do add to the value of a farm, long after the last "varmint" has been trapped or poisoned, and the bounty collected on his scalp. It is man who has upset nature's plan. He has taken the land from the creatures which first occupied it. Let us not forget that fact.

[Address all communications to The Nature Club, Garden City, L. I. Nature students are invited to submit records of their work—photographs and brief articles—like the following.—THE EDITORS.]

### THE RUBY-THROATED HUMMING-BIRD

**A** GARDEN having the taller garden flowers, or those that are trumpet-shaped such as the trumpet flower and honeysuckle will attract that little living gem of the orchard and garden, the ruby-throated humming-bird.

So swift is the flight of this little bird that the eye can scarce follow him as he darts through the air. When he is poised before a flower the beating of his wings is so swift as to make them almost invisible and one only notices the ruby of his throat set in the green of the emerald.



The humming-bird's nest is composed of lichens, and from the ground appears to be merely a protuberance from the limb on which it rests

Nor is it necessary to have a large garden to attract this bird. Of all flowers he seems to be most fond of the honeysuckle. If there is a fair growth of this vine one is pretty sure to see the ruby-throated humming-bird when it is in bloom.

The nest accords well with the little gems for which it is built. One that I found in an apple tree had the outside of the nest covered with lichens similar to those on the limbs of the tree, and which were held in place by tiny silklike threads. The nest was placed directly upon a small horizontal limb with no other branches near to help support it and having the same covering of lichens, looked from the ground merely like a protuberance of the limb.

My attention was first called to the tree by the actions of the female humming-bird as she flew from it when I approached. She did not dart away as is usual with these birds when disturbed but flew instead to the branch of an adjacent tree. Here she remained for a moment or two, then darted back to the first tree again and acted in a strange and nervous way.

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## Country Life in America

For July 15th

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 - By *Oswald C. Hering*  
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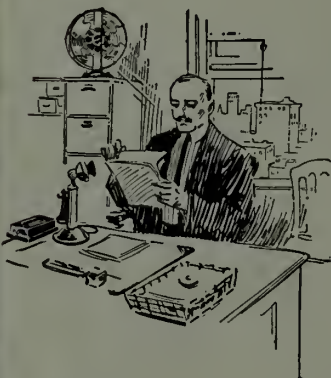
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To Encourage Gardening among Boys and Girls

*Mothers, Teachers, Club Women  
and all Boys and Girls Invited  
to Join.*

*Membership Free*

*Help the children to know growing  
things in a garden of their own.*

Write to

*Lady Greensleeves Young People's Garden Club*

*The Garden Magazine, Garden City, New York*

It then happened that I espied the nest, which was about nine feet from the ground.

At that time, the 25th of May, though the nest contained one egg, the tiniest little egg imaginable, it did not seem to be entirely completed. In one place its silky lining of plant down of a dark rose color showed a little above the lichens which otherwise concealed it.

By the afternoon of the 26th of May another egg had been laid and it looked as if a few more eggs had been added to the nest. The bird in a few days lost much of her nervousness at my approach and even returned to the nest while I was watching her. She showed none of the beautiful ruby coloring of the male, the general effect of the plumage being green and white.

For a number of days after the eggs were laid she worked at odd times adding lichens to the nest. It took about fifteen days for the eggs to hatch and in about fourteen days more the young had left the nest.

During this time I never saw the male bird, though without doubt he was in the vicinity just before I discovered the nest. It is one of the chief peculiarities of the humming-bird that as soon as the nest is completed or nearly so the male bird disappears and does not return, thus leaving all the care of raising the young to the female. Perhaps he is too brilliant and dashing to be burdened with the cares of a family, or it may be that if he appeared in the vicinity, his vivid coloring might attract attention to the nest when it contained eggs or young birds.

The female has not this striking brilliancy of plumage and also when near the nest has a way of flying which while swift, does not attract attention.

Humming-birds do not depend alone on the honey from the flowers for food but consume at the same time many of the smaller insects that may be in the flower. In fact, they depend for food to a certain extent on insect life.

H. E. HAYDOCK.

### MAKE AN EFFORT TO ATTRACT THE BIRDS

TO WHOM IT MAY CONCERN:

Some people have noticed that strangely few birds nest on their grounds. Too many seem to pass on in migrating time.

In driving through the country, especially after the leaves are off in autumn, you can notice more nests in some localities where the food supply does not seem better than where nests are scarce. Notice nests. Make a nest census on your grounds every year. It is educational and also sport.

Birds want safe places to nest. Von Berlepsch says that birds look long and earnestly for safe places to nest. They also must have a nearby food supply while feeding the young.

With us the summer of 1910 was disappointing. The hole-nesting birds did not seem to approve our boxes, and the open-nesting birds did not stay.

Last summer, as soon as the first robins appeared, the family cat was kept in the sheds, and other cats were watched and warned. The few other enemies to nests were watched and appropriately treated. Crumbs were scattered on rocks and bare places. Where the year before only one robin's nest could be found, twenty-one robins' nests were counted, and forty other birds' nests were found in the area where only a very few were the year before.

Robins watch and defend their nests vigorously from enemies, and so the little birds like to build nests near robins. For instance, a robin angrily drove off a jay when it first appeared in sight. The jay left the vicinity from that day. One robin, courageously defending its own, incidentally saved many little nests. Probably robins are much needed for just this work. Nature's balance requires many robins. One hundred and twenty-two birds and their young on a few acres nearest the house makes the country interesting.

Elm leaf beetles are not troubling our trees, and we have no brown-tail moths this spring. Perhaps that however is because we hang out suet to attract the woodpeckers and other residents in winter. That is another story.

We are glad to inform you what sport we are having with birds as you might get more or less out of the same.

E. O. MARSHALL,  
Secretary of the Massachusetts State Grange Committee on Protection of Wild Birds.

By the Author of  
**Freckles**  
**The Harvester**  
**A Girl of the**  
**Limberlost**



# MOTHS OF THE LIMBERLOST

By GENE STRATTON-PORTER

**T**HERE is no portion of the country which has been made more familiar to hundreds of thousands of readers than the Limberlost Swamp, that woodland and marsh which has been the setting of Mrs. Porter's wonderful novels, "Freckles," "A Girl of the Limberlost," and "The Harvester."

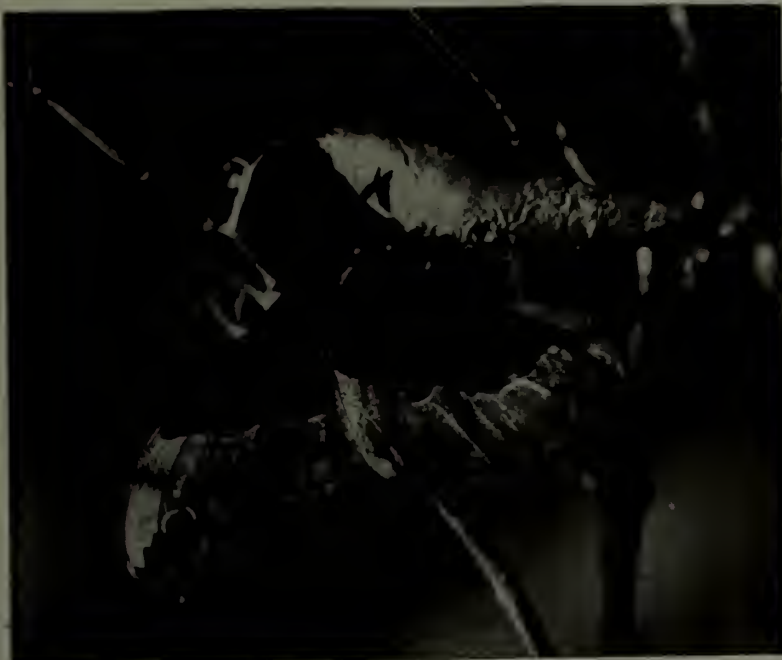
It is about this very bit of Indiana that Mrs. Porter has written her new book, "Moths of the Limberlost," and it is the most unusual and interesting nature book ever imagined. It is a story of the "Moths" of the Limberlost which every reader of "A Girl of the Limberlost" will remember. Mrs. Porter pictures and describes the moths hunted by Elnora, and in many chapters there are the landscapes over which she hunted, much of the swamp, and *the very bridge under which she was working* to cut loose a cocoon when Philip came up the stream, fishing. There is also the log-cabin in which Elnora lived. The

text is just scientific enough to give the name and description of each moth, cocoon and caterpillar; the remainder is a fascinating record of personal experiences in finding or raising the specimens. Fully half the book is of birds, flowers and the out-doors, described and pictured as only the author knows how.

One feature is notable. Almost all books on these subjects are illustrated by reproductions of pinned, shrivelled, unnaturally placed *dead* moths. Every reproduction in this book is from *living* moths, posed *naturally*, in their proper environment, and colored from life.

*24 beautifully colored illustrations from original and rare photographs, and over 100 in black and white by the author. Net \$2.50.*

GARDEN CITY DOUBLEDAY, PAGE & CO. NEW YORK





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with the  
bother  
left out.*

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The Ways and Means Club  
11 West 32nd Street (8th Floor)  
New York City

## THE AMATEUR PHOTOGRAPHER

(Continued from page 39)

they are grayed, there being usually a considerable loss of intensity unless the transparency is a particularly brilliant one. The process, although simple, is slow and expensive, yet well worth working, and it gives great promise for the future. The day will yet come when an entirely satisfactory bleach-out paper will be placed on the market. The best minds in the photographic world are now at work upon the problem, spurred on by the success of Dr. J. H. Smith's Utocolor paper, and more wonderful results are sure to follow. Utocolor paper, as sold in the American market, is put up in packets of ten sheets, selling at \$2.60 in 5 x 7 size, other sizes in proportion.

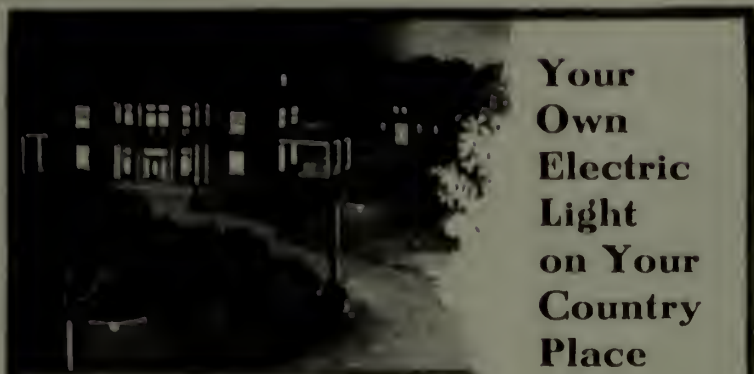
All pictures in color having more or less gray mixed with their colors are naturally less brilliant when seen by reflected light on paper than by transmitted light through glass. For this reason transparencies with strong brilliant colors are more successfully reproduced on paper than those with more delicate colorings, as there is certain to be a loss of color intensity. Too great contrasts of light and shade, as in ordinary photographic printing, are undesirable, for the lighter portions of the transparency will be printed out long before the darker portions have been exposed to light long enough.



"Friends." By Mrs. Florence G. Murdock

Should it become desirable to increase the brilliancy of a transparency before printing, it is accomplished by retouching individual color areas which are too weak with liquid dyes applied with a fine sable brush to the thoroughly dried emulsion surface of the plate before it is varnished. Suitable dyes which may be mixed to secure the desired tints are furnished in a set of six bottles for \$1.75. As soon as the dyes are dry, a special protective varnish is poured slowly over the emulsion surface and drained off at one corner. This varnish costs \$1.20 for a bottle of  $4\frac{1}{2}$  ounces, and is necessary to prevent the Utocolor paper sticking to the transparency during printing. To facilitate rapid drying of the varnish, which is an essential, it is desirable in cold or damp weather to dry the varnished transparency in moderate heat before a fire or stove. Too much heat, of course, would cause the whole image to melt and run.

The actual printing is much the same as in ordinary work, the film side of the transparency being placed in contact with the emulsion side of the paper, and the frame containing them being exposed to daylight. Being of a bleach-out character, the emulsion side of the paper is black rather than white at first. There is grave danger that the paper will stick to the transparency unless the utmost caution is observed. In damp weather, or if the paper has been kept in a damp place, it is advisable to warm it over a gas flame or fire, and if the transparency feels damp or sticky, it, too, should be warmed before being put in contact with the paper. A thin celluloid film between paper and transparency effectively prevents damage to the latter.



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There are many designs especially adapted for use in the Country Home, the Bungalow, the Cottage or the Camp.

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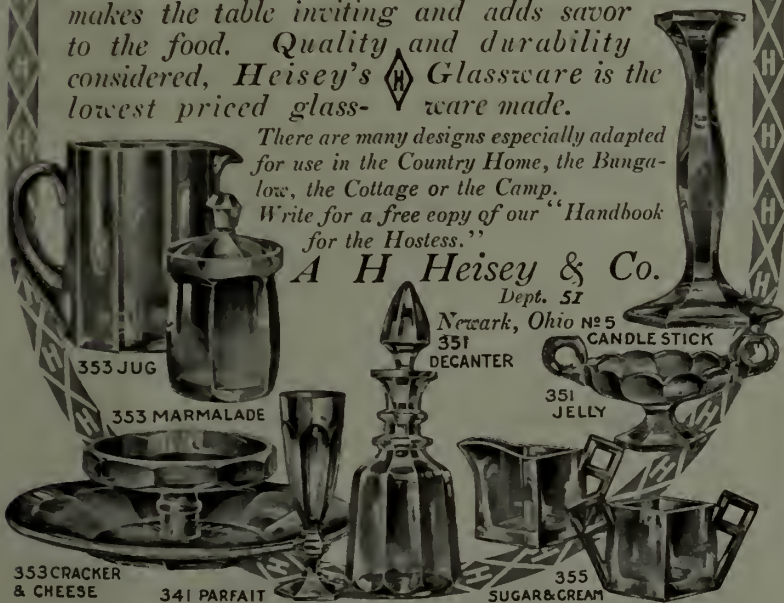
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Here's a picture of two roofs. The one on the left is wood shingles—on the right, **Reynolds Flexible Asphalt Slate Shingles.** Both five years old—laid at the same time—in the same way—both stormy by the same weather conditions. Look at the picture again—carefully—photographs can't lie. Wood shingles do rot—they do warp—the wind does loosen them—the water does get through and under them—they must be painted—time—short time at that—soon plays havoc with them and your pocket book. Put Reynolds Flexible Asphalt Slate Shingles on your roof and your roofing troubles will be settled for all time—as long as you live.

**Reynolds Flexible Asphalt Slate Shingles**

are really fire resisting. They defy water, moisture, heat and cold. They "stay put," can't rattle, loosen, warp, get twisted—they lay tight and snug. Reynolds Asphalt Slate Shingles are made of extra heavy Asphalt and wool felt, thickly surfaced with granite slate—makes a warm, rugged, impervious, attractive looking roof. Costs less than slate, lasts three times as long as wood shingles, never needs attention or painting. Recommended by the highest architects in the country.

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Established 1868

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Information about trees, shrubs, flowers, plants, etc., will be furnished upon request.

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"Ten thousand saw I at a glance  
Tossing their heads in sprightly dance."

### Save Money on Your Fall Bulbs by Ordering Now

All orders for Fall Bulbs placed with us before July 30th, we will book at import prices.

You will surely want some of the charming *Narcissi poeticus* (Pheasant's Eye, or Poet's Narcissus), so charming in the illustration.

It's quite the most popular and beautiful variety for naturalizing in the woodlands and borders of the wild garden. They are very hardy, and multiply rapidly.

Special advance order import prices for flowering bulbs of the *Narcissus* are as follows:

100 for 75c.	250 for \$1.75
500 for \$3.00	1,000 for \$5.75
5,000 for \$27.50	10,000 for \$50.00

Other fall bulb prices in proportion. Write us your list of wants and we will give you complete import prices.

Be sure your name is on our list for the fall *Garden Guide*. It will be mailed to you free, the middle of August.

*Boddington's Bulbs Bloom.*

ARTHUR T. BODDINGTON

338 West 14th Street New York

The duration of printing, of course, depends upon the intensity of the light. A normal positive requires about two hours in sunlight and correspondingly longer in diffused light. A hazy sun, or a sun covered by white clouds, furnishes the best light; it is strong but well diffused and will about double the exposure. Very good results are had when printing is begun in diffused light, continued several hours and finished by a short period in sunlight. When the whole duration of printing is in sunlight there is danger of the transparency becoming overheated and of the colors being destroyed unless a heavy sheet of plate glass covers the printing frame. Even then it is wise in hot weather not to continue printing for longer than a quarter of an hour, but to remove the frame to a shady place to cool, and if desirable, to facilitate cooling by the application of a moist sponge or cloth to the glass.

In order to absorb ultra-violet rays, filters must be placed over the frame during printing. These must vary in depth with the intensity of the light. The manufacturers supply two; a G filter for use in strong diffused light or weak sunlight and an M. G. filter with a matte surface which diffuses the light for use in strong sunlight. The two filters, 5 x 7, cost \$2.75. In very strong sunlight, and particularly in southern climates, both must be used together. No filter is necessary in very weak daylight, but it is not desirable to print in such a light at all.

Occasional examination of the prints will tell what progress is being made. Should the print show a reddish tinge, the green filter is too weak; should it show a greenish tinge, the filter is too strong. When the print corresponds to the transparency it is finished.

Two special fixing baths are needed to make the prints permanent. These come in 18-ounce bottles at \$0.80 each. About four ounces of each is needed for a 5 x 7 plate and at most the solutions should not be used more than twice in immediate succession. The prints are first washed for five minutes in three changes of water and then immersed in fixing bath A for fifteen minutes, the tray being rocked gently meanwhile. This is followed by rinsing for three minutes and immersion in fixing bath B for seven minutes, the tray being rocked as before. Final washing is unnecessary; the prints are merely rinsed for a few seconds and hung up to dry.

Although the surface of the paper is glossy in order to retain as much of the brilliancy of the transparency as possible, a still higher finish may be secured by squeegeeing on glass or a ferrotype plate in the usual manner. In fact, this is preferable, because, otherwise, the tendency of the paper is to curl, and as it is rather brittle, attempts to flatten it after drying often result in cracking. Mounts of black or dark colored cardboard increase the apparent brilliancy of the colors.

### COUNTRY LIFE ABROAD

(Continued from page 44)


About the old temple grounds at Koyasan, one of the mountains where this tree grows abundantly, it has been freely planted. Here it has been used to form tall windbreaks, lower hedges, and, in a more ornamental way, about the temples themselves. It seems to bear severe trimming, making a most attractive hedge. Its ability to recover from very close pruning is a great surprise to the writer.

The timber of this tree is not highly prized, as it is light, coarse-grained, and brittle, something like our eastern white spruce. This is quite fortunate if its perpetuation is desired, for with its very limited native range and its indisposition to renew itself by seedage, it would quickly become extinct, outside of cultivation, were it a much sought-for timber tree. Sentiment in Japan should and probably will warrant the government in making new plantations of it on the mountain sides where the lumbering operations now going on are cutting down the present growth.

This beautiful evergreen has seemingly never been very popular with the native gardeners who practice the naturalistic Japanese style, an art in which they have been and are past masters. While it has been used freely about the temples, I do not recall a single instance where it appears in the temple gardens proper,

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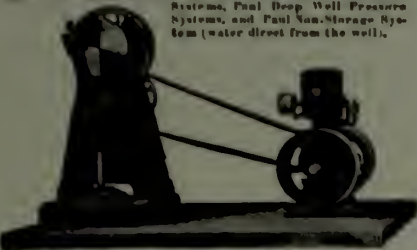
fills these requirements of the ideal water supply system. The secret of PAUL reliability and simplicity lies in the fact that we make in our own factory all our equipment for deep and shallow wells (except the electric and gasoline motors). We are not mere assemblers of parts made here and there—we watch the quality of our products closely from start to finish. We know and guarantee they will give complete satisfaction when installed.



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These houses have a complete steel frame of U-Bars; a thing that cannot be said of any other greenhouse construction. Houses built this way have a distinct advantage in productiveness, durability, and economy in running them. All three are of great importance to you if you intend building. Important enough for you to send for our catalog—or send for us—or both.



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Your money's-worth of light depends mostly on the shades or globes you are using.

Are they right? Send for our Catalogue telling all about shades and globes and what they do. MACBETH-EVANS GLASS COMPANY, Pittsburgh

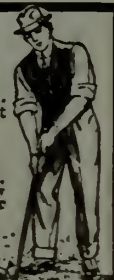
## How to Get Rid of Dandelions!



To kill dandelions, destroy the roots. Cutting them off is mere waste of time and energy. They are bound to grow again. Chemicals disfigure the lawn. The quickest, surest way is to use the DANDELION PULLER

Gets the roots, but does not tear up the lawn. The trowel-shaped blade slides into the ground, patented hook catches the root and up come weed and root. Nothing is left to start new growth. Long handle eliminates need of getting down on hands and knees. Satisfaction or money back. Send 65 cents in stamps and dealer's name. We will ship puller at once, express prepaid. DEALERS—The Hall Dandelion Puller is a great seller everywhere. Write for our proposition.

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## Roses, Hardy Perennials, Vines, Shrubs, Evergreens, etc.

It is not necessary to wait till Fall or next Spring to fill up unsightly blanks in your Rose bed, Shrubbery or Hardy border.

We will furnish you strong, sturdy, well established, two year pot-grown plants which can be safely set out in the driest, hottest weather.

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ready July 1st, is the most up-to-date and complete list of this class of stock ever published. It contains everything which may be planted during the summer months. Plants of all kinds. Flower and Vegetable seeds. Lawn tools and

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either in the old gardens laid out by the old masters, or in recognized examples of later date. It is, however, very highly suited to the styles of gardening which are likely to continue to be popular in America, lending itself kindly to the knife when a strictly formal effect is desired, developing into an attractive specimen where given opportunity for individual expansion, and mixing well with other evergreens, especially



Cryptomeria trees are the largest to be found in Japan. Those about the temple always command the admiration of tourists

as a marginal tree. Its disposition to do well in partial shade suggests further usefulness. Judging from the existing conditions where one



A splendid specimen of the Japanese umbrella pine before a temple at Nikko

finds it growing most happily in its native habitat, it does not require a very rich soil but one well drained and not subject to extreme dryness at any time.

It is unfortunate that the available stock of

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will stand all kinds of weather and will not fade. They are made of tough bamboo and fitted with galvanized blocks and cotton rope. Ask your dealer to show you Komi Porch Curtains—they cost so little and mean so much in comfort that no home should be without them. If your dealer doesn't handle them, write to us.

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"The backwardness of Spring," the wetness or dryness of the season—the blows—the snows, or nothing else has anything to do with it.

You simply plant your garden when you want to, and get the things you want, when you want them. You control the situation. You turn the seasons upside down.

The snow may be a foot deep and the mercury bumping the bottom of the bulb, and in your greenhouse garden you can be growing bananas and orchids, or violets and American Beauty roses.

Along in February your dwarf orchard of apples, peaches, and cherries will be abloom. Middle of May grapes will be ripe. Then there is another im-

portant thing your greenhouse garden will do—it will boost your outside garden by giving you husky, ready to bloom plants to plant out early in the spring, at the time when you have always planted just seeds.

In a few days now we will have from the printers a most interesting booklet called 'Two G's, or Glass Gardens—a Peep Into Their Delights.'

It tells you just the things you want to know in just the way you want to know them. Send along your name now, and the very first copies that come we will mail you one.

P. S. If in a hurry to get your greenhouse up, say so and we will send our regular greenhouse catalog

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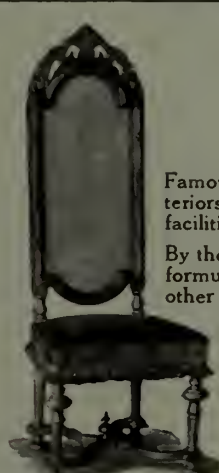
By the perfection of our craftsmanship, we aim to perpetuate the ideals formulated by such eminent artists as Chippendale, Adam, Sheraton and other cabinet makers, designers and decorators of note.

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No. 80—Cathedral Oak after William and Mary, upholstered in velvet with silk fringe. Price. \$72.50 F. O. B. New York.

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If not, write to our nearest office and let us tell you the cost\* of a water supply ready for use.

We have had seventy years' experience in building pumps, and make a specialty of installing complete water-supply systems.

### The "REECO" Water System

is simple and safe in operation, durable and dependable.

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Nearly 50,000 are in use throughout the world.

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GRASS FURNITURE

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Ask Your Dealer

New Booklet No. 207 Upon Request

**Prairie Grass Furniture Co.**

Sole Manufacturers

Glendale Long Island New York

this beautiful evergreen is so restricted and its growth while young so slow. It will be many years before any considerable stock can possibly be available. Its undaunted adaptability and merit as an ornamental tree in the eastern United States at least, should encourage the plant men to get up a large stock in as short a time as experience and skill makes possible.

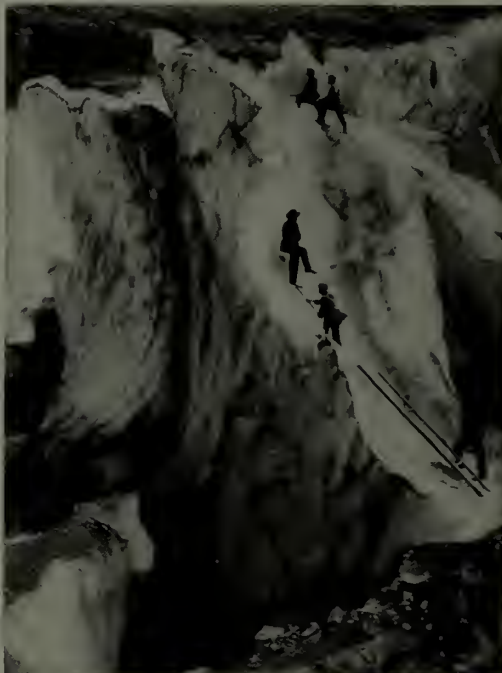
ERNEST FRANCIS COE.

#### JULY NOTES FROM ABROAD

THE day is soon coming when the highest and most celebrated Alpine peaks can be attained without danger and in perfect comfort. The tunnel from Little Scheidegg to the summit of the Jungfrau, now nearing completion, is undoubtedly the forerunner of others similar in nature, which will enable the average person to view Europe from the top of the continent—a thing hitherto possible only to the few more sturdy and daring.

The right-hand photograph of our heading shows the present grotto-like terminal station, known as Eismeer, to which tourists are taken by electric car on a cog road. Here openings have been blasted through the solid rock to provide observation points from which to view the wonderful snow fields below.

Still farther up the mountain the work of



The old and dangerous methods of Alpine climbing are fast giving way to surface, tunnel, and cable railways

tunneling continues. Two thousand feet more and the point will be reached whence a vertical elevator will take passengers to the summit. The workmen are now at an elevation of 11,400 feet, near the site of the new Jungfrau-Jock station. Here the passengers may emerge right among the glaciers. An observation house will be built on the ridge near the station, commanding a wonderful view of the entire Bernese Oberland with the city of Interlaken nestling in the valley below.

There is a somewhat vaguely planned scheme to establish a line from this station across the snows of Jungfrau-firn and the Aletsch Glacier to the Marjeleusee and thence to Riedalp, where a connection would be made with the Simplon system. Such a line, of course, could be operated only for two or three months in summer.

After the station soon to be reached, only one more intervenes before the summit is attained. This will be known as Jungfrau-kulm, and from there an elevator and stairway will rise 240 feet to the summit, 13,675 feet above the sea. The completion of this tunnel will mark one of the greatest achievements in railroading.

A NOTABLE event this season will be the International Olympic Regatta of the Royal Swedish Yacht Club to be held from July 19th to 27th inclusive.

On Friday, July 19th, there is a welcome banquet at Nynäshaus. On Saturday, July 20th, occurs the first Olympic Regatta and general International Regatta, over separate courses, at Nynäshaus. Sunday the 21st, the events



### A Water Supply At Moderate Cost

Here is a system that will deliver fresh running water all day at the mere cost of a gallon of gasoline. It's the

#### DOUGLAS PNEUTANK SYSTEM

It consists of an air-tight steel tank, a gas, gasoline or electric motor and a very efficient pump.

Can be located in the basement or out-of-doors and take up very little room. Pneutank Systems are efficient in operation, absolutely reliable, and up to the Douglas standard of excellence. Eighty years of exclusive pump-making experience are behind them.

We will replace any part found defective within five years of installation.

Our engineers are at all times ready to aid you in solving your water-supply problems. Write to them. They can give you expert advice.

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Manufacturers of spray pumps, deep well pumps, etc.

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INOCULATED WITH

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Earp - Thomas Farmogerm Co., Bloomfield, N. J., U. S. A.

Seed and Soil Testing Outfit—Complete \$2

The Readers' Service gives information about decorating country homes.

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You can have pure paint—

that will never crack or peel, nor require burning off or scraping. See that "Carter strictly pure White Lead and pure linseed oil" is written into your painting contract. Your painter will mix it to your order, in pure white or colors, exactly to suit the surface to be painted.

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there should be at least one Outdoor periodical, and *Forest and Stream* is that one. It is the oldest and best known paper in its field and Standard Authority on all matters pertaining to outdoor life. Its articles on Hunting, Fishing, Kennel, Camping, Canoeing, Yachting, Cruising, Travel and Adventure are by men who know.

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*Forest and Stream* tells you the *How*, the *Where*, the *When*, and what to expect when you get there. Its Bureau of Information alone is worth the subscription price.

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Father of Tree Surgery

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## The Davey Tree Experts Do

this work, when requested, without cost, and the charge for treating trees in many cases is no more than the cost of carting dead trees away. All Davey Tree Experts are Graduates of the Davey Institute of Tree Surgery. They are employed by the Davey Tree Expert Company. WE NEVER LET GOOD MEN GO. Before you let any man touch your trees, demand to see his credentials proving him qualified. All Davey Tree Experts carry such testimonials. If you own trees write for our interesting book and arrange for an examination.

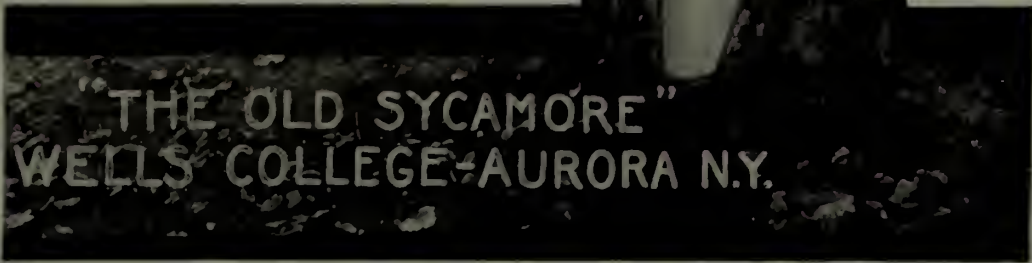
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## Silver Plate that Wears—for Your Country Home.

It is the sensible practice of many to store their sterling in safety vaults and use less expensive silverware in their country homes. You will make no mistake if you buy

## 1847 ROGERS BROS.

"Silver Plate that Wears"

These Spoons, Forks, Knives, Serving Pieces, etc., famous for over 60 years for quality, style, finish and wear, are guaranteed by the largest makers. The latest pattern, "Old Colony," illustrated here, is ideal for Colonial and Old English dining rooms.

Sold by leading dealers everywhere. Send for illustrated catalogue "U-14."

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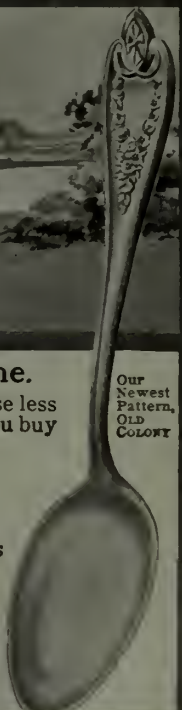
New York

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Our  
Newest  
Pattern,  
OLD  
COLONY





Would you like to catch a 500  
pound fish that leaps like a Salmon?

## Tuna Fishing

### 25 Hours from Boston

**Y**OU can leave Boston at one o'clock on the fine Dom. Atlantic steamer and be actually fishing the next afternoon for the most tremendous game fish that swims.

Mr. Ross showed the wonderful possibilities by his feat at North Sydney (see picture above). We have a place

#### 500 miles nearer

Log Cabin in pine grove on sea-shore  
More tuna and easier to get at  
Good guides, good food, good equipment  
Private motor boat (that motes!)  
Fish of 800 lbs. actually taken in nets

Season is July, August and September. Better write to-day to  
L. D. MITCHELL  
Liverpool Nova Scotia

If you can get your mind down to it, there's also: fishing for striped bass, pollock, trout, land-locked salmon; seal shooting, shore birds; woodcock and duck in September

begin with the second Olympic Regatta and general International Regatta. Monday will see re-sailings in the Olympic regatta, and distribution of prizes for the general regattas. On Tuesday, July 23d, a general International long-distance sailing, within the "Skär," from Nynäschaum to Sandhaum is scheduled. Wednesday, July 24th, is set aside for a day of rest, excursions, etc. Thursday, July 25th, the general International Regatta in the Kanholmsfjärd takes place, with distribution of prizes for the regattas on the 23d and 25th. Friday, July 26th, there will be sailings for challenge cups and special prizes, and the general International Regatta at Sandhaum. Saturday, July 27th, the sailing to Stockholm will take place. At 6 p. m., the Olympic prizes will be awarded, after which a farewell dinner served.

**A**LTHOUGH all the seats for all of the twenty performances that constitute this year's Wagner festival at Bayreuth have been sold, there is still hope for those who have not bespoken places. The committee advises American music lovers who desire seats to make application about the middle of June. Every year a certain number of tickets that cannot be used for one reason or another, are returned, and there is always the chance that some of these may be on hand for reallocation. Seats, of which there is only one grade, cost \$6.25, as against \$5 in previous years. "Die Meistersinger von Nuernberg," which will have five performances all told, will open the festival July 22d. Between that date and August 20th, there will also be two cycles of "Der Ring des Nibelungen" and seven performances of "Parsifal." The exact dates are as follows:

"Die Meistersinger von Nuernberg," July 22d, 24th, 31st, August 12th, 19th; "Parsifal," July 23d, August 1st, 4th, 7th, 8th, 11th, 20th; "Der Ring des Nibelungen," July 25th, 26th, 27th, 28th, August 14th, 15th, 16th, 17th.

**T**HE events of chief interest to golfers this summer are the Open Championship of France at La Boulie, July 1st and 2d; Amateur Championship of France at La Boulie, July 4th, 5th, and 6th; Ladies' French Championship at Le Touquet, July 8th; Championship of Switzerland, at Montreux, October 2d.

## NEW ENGLAND — MOTHER OF AMERICA

(Continued from page 32)

old mistresses might have displayed ancestral jewels brought from overseas in old sailing vessels; the noble Charles River, noble still, despite its partial leash-holding by the land; the



Bow and Arrow Point, Lake Champlain

stately mansion of the Back Bay, the new Art Museum, dignified enough for an old world city, and holding treasure to be considered precious by any city under the sun; the historic buildings, decorated by old romance of history, more wonderful than any mural paintings—even the narrow and crooked streets which evince a will in the beginning to make their own way, which give something like strength of character, albeit hard and unyielding strength, to the very city itself—are all wonderful and convincing.

There those determined men and women walked as they would, taking the bent which they chose to their journey's end, and no man said them nay, until they were laid to rest forever, as far as their mortal flesh was concerned, in the grand old tombs of the Mall. Boston, in the face of inconvenience and annoyance, is not a city made by line and plummet, but one made by men

## Learn Trap-shooting



### "The Sport Alluring"

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### Men and Women

Fascinating, Safe, Healthful. Second  
only to Base Ball as a National Sport.

A large picture of the above scene (17" x 12"), in 8 colors, for framing, sent on receipt of 14c. in stamps. Ask for Free Booklet No. 220 "The Sport Alluring," profusely illustrated with picture of royalty and celebrated Americans trap-shooting, and "Hints to Beginners."

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Pioneer Powder Makers of America. Established 1802.

## FIELD GLASSES



for bird lovers, travelers and theatre-goers. Find a bird and keep him in sight—study a pretty landscape—sight a sail miles off shore or study at close range the face of your favorite actor.

These glasses bring to you with startling clearness an image of any object upon which they are trained. They magnify about three diameters; have an exceptionally large field of vision and are the last word in perfect mechanism and optics. Our selection after carefully examining a hundred makes, proved it. We offer you the best at a reasonable price. Triple your vision. Price only \$5.00 postpaid.

### MOHONK SALESROOMS

Box E., Mohonk Lake, New York

## Farr's Oriental Poppies

Next month (August) is the time to transplant these glorious bloomers. A score and more of the finest sorts are grown at Wyomissing Nurseries. I will send six handsome varieties for \$1. My book "Hardy Plants" tells about Poppies, Peonies, and other plants for fall planting. I will send a copy if you expect to purchase.

Bertrand H. Farr, Wyomissing Nurseries, 643C Penn St., Reading, Pa.

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Nothing so adds to the beauty of a building and gives it so much character as a TILE ROOF. It's a perfect protection—fire-proof—lightning-proof—leak-proof—moisture-proof, and a non-conductor of heat and cold.

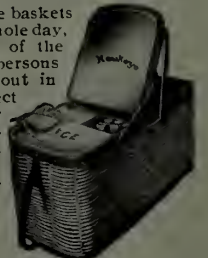
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Gives continuous outdoor service for ten years. Stronger and more durable than any other. Genuine bears our silk name label. Send for Booklet

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A 5-lb. piece of ice in one of these baskets will keep the lunch cool for a whole day, even in hottest weather. One of the indispensables for motorists or persons who love to spend the days out in the woods. Baskets are insect and dust-proof. Non-rusting nickel plated interior. Surrounded by thick asbestos wall. Baskets made of heavy rattan and are practically indestructible. Not expensive. Sold by auto dealers, sporting goods and department stores. But be sure to see the name Hawkeye.



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are completely equipped with plates, cups, saucers, knives, forks,—everything down to napkins, coffee pots and saucepans. The Hawkeye trade mark inside the basket cover will protect you from inferior goods. If you have difficulty getting any Hawkeye Baskets, write us and we will send you our luncheon recipe book free for your trouble. Now is just the season when a Hawkeye basket will give you greatest pleasure. So write today

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*Made Specially for Motoring, Golfing, Camping, Fishing and Other Sports*

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are soft and flexible, giving a firm, non-slip grip on club, gun, paddle, car or steering wheel, because made of teal velvet cotskin. They are unharmed by wetting, and can be washed in soap and water or gasoline, without hardening. They wear like iron, and never peel, harden, crack or shrink.

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Style 4100

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Running water cannot be further silenced and still produce a sanitary flush.

In the "Silentis" and "Silento" Closets, the bowls and seats are extra large. They represent the highest type of quiet action closets.

A special booklet on quiet-acting closets will be mailed upon request.

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## DANYSZ VIRUS

contains the germs of a disease peculiar to rats and mice only and is absolutely harmless to birds, human beings and other animals. The rodents always die in the open, because of feverish condition. The disease is also contagious to them. Easily prepared and applied.

**How much to use.**—A small house, one tube. Ordinary dwelling, three tubes (if rats are numerous, not less than 6 tubes). One or two dozen for large stable with hay loft and yard or 5000 sq. ft. floor space in buildings. Price: One tube, 75c; 3 tubes, \$1.75; 6 tubes, \$3.25; one doz. \$6.

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**NOW USED IN EVERY STATE**  
 Every Principle new; all iron malleable except Wood box completely ironed.  
 Wheels 3 ft., 2 inch rim. Will not injure sod.  
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 Dumping entirely automatic. End gate always under control. No effort required to push it. A boy can do a man's work. A necessity and price reasonable. Write today for illustrated Catalogue.  
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 Sent free to anyone who intends to build



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**Cabot's Shingle Stains**  
 They are designed by leading architects and are full of ideas and suggestions of interest and value to those who contemplate building.

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*Stained with Cabot's Creosote Stains  
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 Rather than show characterizes these

**Krementz Bodkin-Clutch Studs and Vest Buttons**  
 with Cuff Links to match. Suitable for all full dress occasions. The finest mother-of-pearl with platinum mounted pearl centers.

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The truly wonderful power of this lens to gather and transmit light will surprise you. The Tessar has great *speed*, clear *definition*, perfect *illumination*. For portraits, landscapes or the swiftest things in motion—for use in weak light or on grey days—the Tessar has *no equal*.

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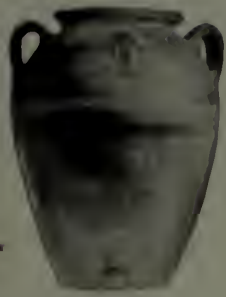
Rangeley Lake, Maine

much, the setting aside of land for the purpose of satisfying the love of the beautiful, which sweetens and dignifies the hearts of the people and which their poor purses cannot afford, signifies something loving and paternal in the Government. It is free to all, this fair expanse of meadow and woodland, covered with flora in summer, radiant with the glory of rosy and golden trees in the autumn. It is really a gift from the old Commonwealth of Massachusetts to her children, a gift free from the heart. Let it be taken into account, this gift which is not donated largely for the credit of the giver, in these troublous times of oppressors and oppressed, when one knows not whom to blame for hard conditions upon either side. Let one free gift for the sake of love have the thanks which it deserves. This Reservation, upon



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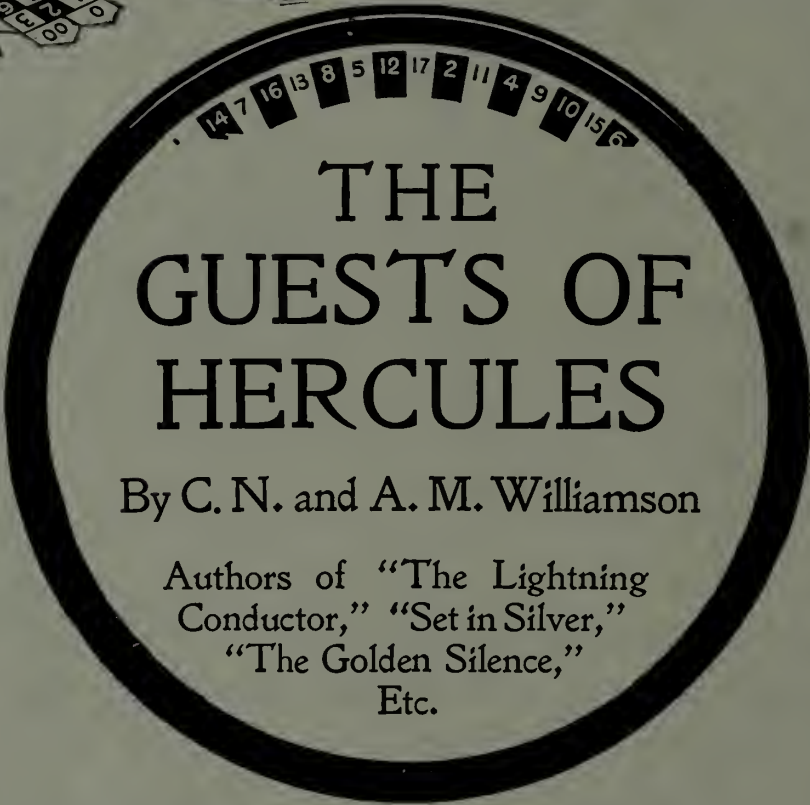
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The Merrimac River, near Lowell, Mass.

dwelt the descendants, clear-featured, high-headed, of those fittest who survived of the *Mayflower* pilgrims. In the gardens survive the descendants of their old English gardens. In the graveyard above the town, lie mingled now with the loved alien soil for which they left the world while still in it, the old Puritans. Regard them as we may, see clearly as we may, with the perspective of history between our lives and theirs, their shortcomings, their mistakes, their cruelty, their injustice, they were of the great of the whole earth, who starved, and died, and fought, and existed in old Plymouth Town, to be borne at last to that high burial place, and have their resting place rudely marked for future generations by dark stones, slanting, and sinking deeper toward the earth every year.

It is not beauty of natural scenery alone for which we look in New England, beautiful as are the river towns of Vermont and New Hampshire, beautiful as the rugged coast is, beautiful as the deep inlands are. There is in New England a beauty above and beyond that of nature, the beauty which perhaps the first dwellers upon the soil knew to a far greater extent than is possible for us. Toiling for mere sustenance, fighting for life, the beauty of a fair land and sea may have passed to a great measure unnoticed by them, but upon the higher beauty of the spirit their minds were bent. The awful terrors of eternity, its surpassing beauty, were always before them. We cannot help viewing New England with something of their powers of vision, if we view it correctly. Such vision as theirs does not entirely pass away with the years.

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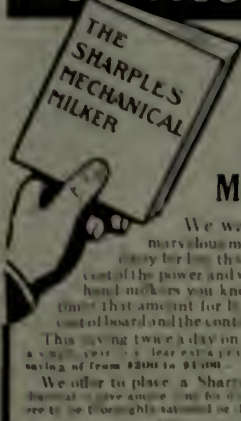
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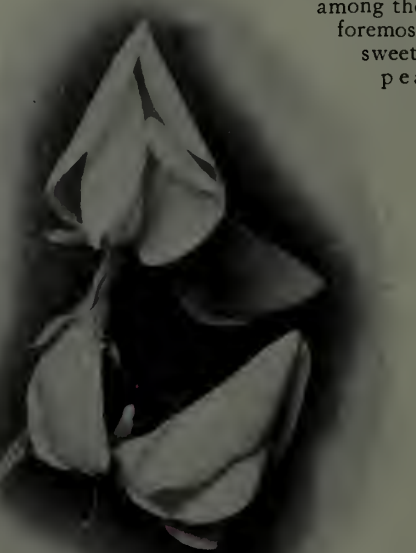
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(Continued from page 22)

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These are planted around the Convention Hall. Our new tree-moving truck was used.

Mr. Manning, Superintendent of Parks in Baltimore, wrote us as follows:

"Please accept my thanks for your very prompt shipment and attention to our hurried needs in connection with this Fifth Regiment Armory work. I also wish to thank you for your suggestions in relation to the handling, watering, drainage, etc., of the large trees which were recently supplied to the Park Department."

This but goes to show the extent of some of our tree planting—also the size and age of the trees, some of them twenty to thirty years, which we always keep in stock. You can have this kind of work done from July 20th to October, with large evergreens. Now is the time to arrange for it. Big cedars and pines can be moved in from your vicinity if there are any available. Send for some interesting literature—it is well worth looking over.

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Sweet peas growing under glass

from six to ten weeks' after seed sowing, and continue to form branches and produce flowers all through the winter.

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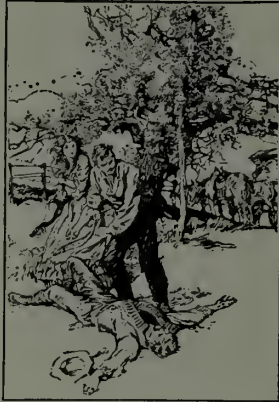
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## A WORD FROM THE EDITORS

SUGGESTIONS from readers are always welcome. Here are extracts from a recent letter that we considered worth thinking over:

### TO THE EDITORS:

An ideal article that I believe would be welcomed greatly by your readers, would be one devoted to "Things Commonly Forgotten in House Planning."

I have been very anxious to find such a list, so that I could check it over and see what I could plan for that I have overlooked, or what I should omit that I have planned for. There are all kinds of funny stories published about architects who plan two and three-story houses without stairs, or without closets, or rooms without doors; but an article complete so that it could be torn out and treasured as a guide, would be worth its weight in gold.

For instance, a friend who has recently built, told me that his family had been flooded because a connection had not been made underneath a tub. Also, he is obliged to let his hot water run whenever it gets below a certain temperature, as the pipe was allowed to touch the outside wall, making a contact which causes it to freeze easily. Asbestos wrapping would prevent it, of course, but that would necessitate tearing out.

Chicago.

B. D'EMO.

### "MISTAKES I HAVE MADE IN BUILDING"

In accordance with the above suggestion, we invite our readers and correspondents to send us brief accounts of the mistakes they have made in building and the lessons these mistakes have taught. Send a photograph or two for illustration, if possible. We will pay for what we can use.

If you wish to gain an idea of the sort of stories we want, see *COUNTRY LIFE IN AMERICA* for October, 1907, page 671; June, 1908, page 186; October, 1910, page 671; March 1, 1912, page cdxxxvi.

### THE BUNGALOW NUMBER

There must be some magic in the word bungalow. Call a house or a cottage or a shanty by the name of bungalow and you cast some sort of spell about it. We don't altogether approve of this, but because the public demands the bungalow, we propose to give the public the best kind of bungalow. We shall publish a Bungalow Number in which will appear dozens of photographs of bungalows and bungalow-like small houses that are really worth copying — and a few to show how bad a bungalow can be when it really tries. A good deal of care has been exercised in making these selections, and the Bungalow Number will have a permanent value.

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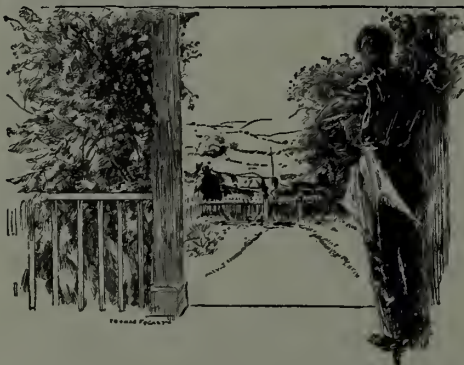
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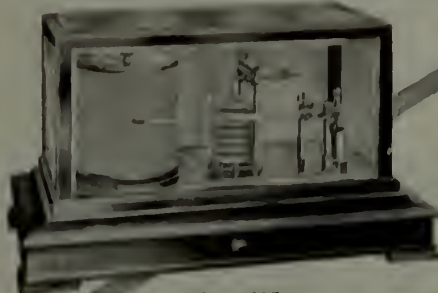
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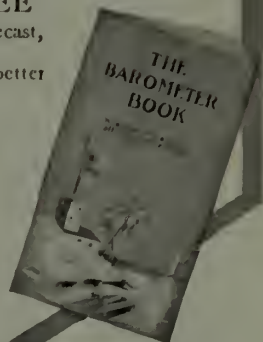
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## THE EXTINCT PASSENGER PIGEON

TO THE EDITORS:

In Mr. W. T. Hornaday's list of "Species of North American Birds recently exterminated" in COUNTRY LIFE IN AMERICA, April 15th, appears the passenger pigeon (*Columba migratoria*). This is to my certain knowledge an error, for not more than three weeks ago a flock of some twenty-five passed over my head at a height of not over 200 feet, and I am informed, as I believe correctly, they are not an uncommon sight in the Santa Cruz mountains.

Formerly, when they were so numerous in Wisconsin in the early spring, I was a resident of that State, and several times visited their nesting grounds, in some instances covering a township, and am so familiar with them I could not have been mistaken in the flock mentioned. Kearney Park, Cal. J. T. BEARSS.

TO THE EDITORS:

Every year at least fifty persons in California and Oregon write to me to inform me that the passenger pigeon exists on the Pacific Coast. I have also had letters to this effect from Arizona and New Mexico. I fear that we never will succeed in informing all the persons who are interested in bird life that the pigeon of the Pacific Coast is a totally different species from the passenger pigeon. The former is the band-tailed pigeon—and the passenger pigeon never existed west of the Rocky Mountains save accidentally in Nevada and Washington. In Arizona and New Mexico—and I think also in southern California—occurs the red-billed pigeon. The passenger pigeon is now almost as extinct as the Dodo. Thousands of dollars have been offered during the past five years as standing rewards for the discovery of a nesting pair of passenger pigeons, or of a flock of wild ones. Prof. C. F. Hodge, of Clark University, Worcester, Mass. has been designated to examine into the merits of all claims, and make rewards when any were justified. At least 100 claims have been investigated; but in every case the birds reported proved to be something else than passenger pigeons. Here in the East it is a very common thing for the

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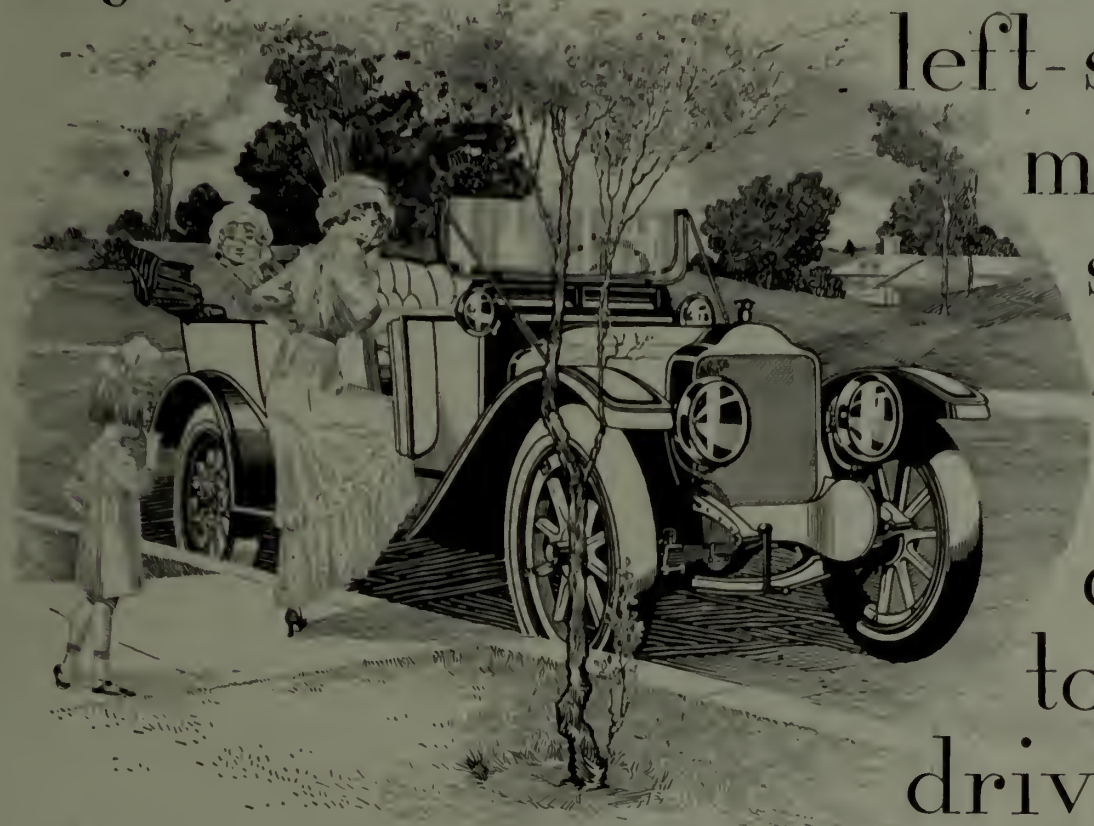
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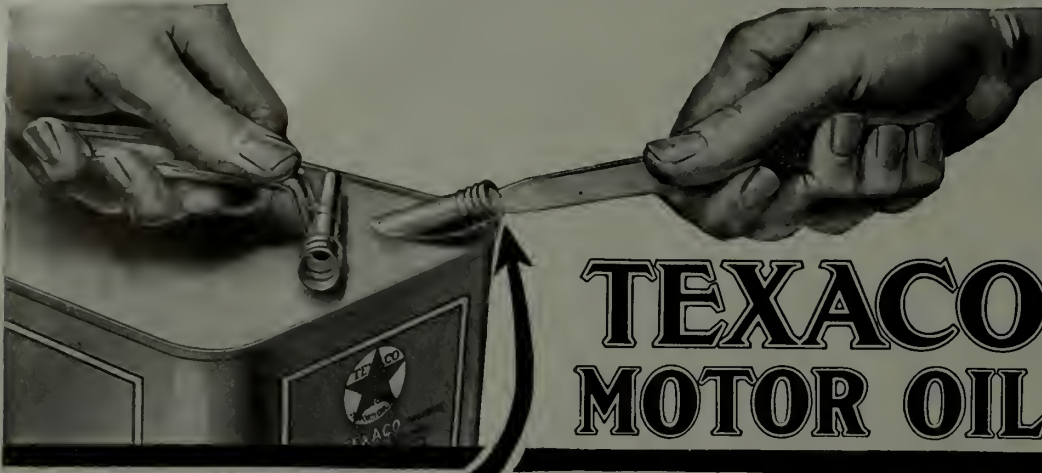




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mourning dove to be mistaken for the exterminated species. On an average of once a week I receive letters informing me that pigeons have been discovered; but without exception, all these reports have proven without foundation.

There is at present only very slight reason to hope that there is a single wild passenger pigeon now living, and I may add that American ornithologists generally have now settled down to this belief. I repeat that the only living specimen, so far as known, is in the Cincinnati Zoological Gardens.

It should be noted, however, that the year 1911 produced the usual annual crop of passenger pigeon "reports," some of them almost credible; but we have been fooled so many times that now and hereafter pigeon stories "don't go, unless they produce the rattles."

W. T. HORNADAY.

Zoological Park, New York City.

### COAL-TAR DYES AND AMERICAN RUGS

TO THE EDITORS:

In your magazine of March 15th appeared an article on "The ABC of Oriental Rug Lore," in answer to which I would like to say a few words.

In all writings on the rugs of the East I find mention of the wonderful blendings of color, of the subdued tones and effects of color harmony, usually winding up with the explanation that these effects are obtained by the use of vegetable dyes, while on the other hand the harsh effects and lurid colorings of domestics are due to the use of aniline dyes, which are coal-tar products and fade rapidly, producing discordant tones that are particularly wearisome.

I would say that in the past manufacturers of imitation Oriental rugs in this country have been too hasty in the choice of the coal-tar colors they have employed; and here I would like to say that there is a vast difference between coal-tar colors and aniline dyes. The manufacturer of rugs has chosen dyes that, when they faded, faded not harmoniously, and through lack of time or lack of organization chose dyes that were not as fast to light as he might have obtained had he been more painstaking. Let us here correct the oft repeated belief that coal-tar colors are not permanent. It has not been the dyes that were at fault but the craftsmen who did not use discernment in their selection.

It may here be seen that care should be exercised in the selection of proper dyes when the craftsman has some 15,000 coal-tar dyes to choose from. With such an array, and with a knowledge of tintorial chemistry, the present American dyer can beat the Orient hands down, can obtain colors that are faster to light than anything in the whole vegetable kingdom either ancient or modern, and has at hand a wider range of shades and tones than was ever before dreamed of, which may be applied to the fabric with the least amount of damage to its feel and texture.

In no branch of modern science have greater strides been made, more brains at work and those of the first order, than in the development of tintorial chemistry. If the products of these great minds in the form of dyes be applied as they should be to textile fabrics in the form of rugs here in America to-day, and if other branches of the art of rug making keep the pace set by the color manufacturers, in ten years' time people here in America will be asking what an Oriental rug is, and the reply must be that it is a thing of the past, gone out of use and superseded by a superior product, the child of modern science, known as the American rug.

The few facts here contained in regard to coal-tar dyes may be verified by inquiry at the American offices of four or five German dye-stuff importing houses of international reputation with headquarters in New York City. We would like to explode the old fallacy of the superiority of vegetable dyes, and we think future rug buyers should be instructed.

CARL S. FULLER.

[EDITORS' NOTE.—The foregoing is printed because it is interesting, and because we like to have so important a question discussed on all sides, not because we agree with it. We are glad to announce that a further consideration of the matter is being prepared by Mr. George Leland Hunter, the authority on rugs, tapestries, etc., which will be published in an early issue.]

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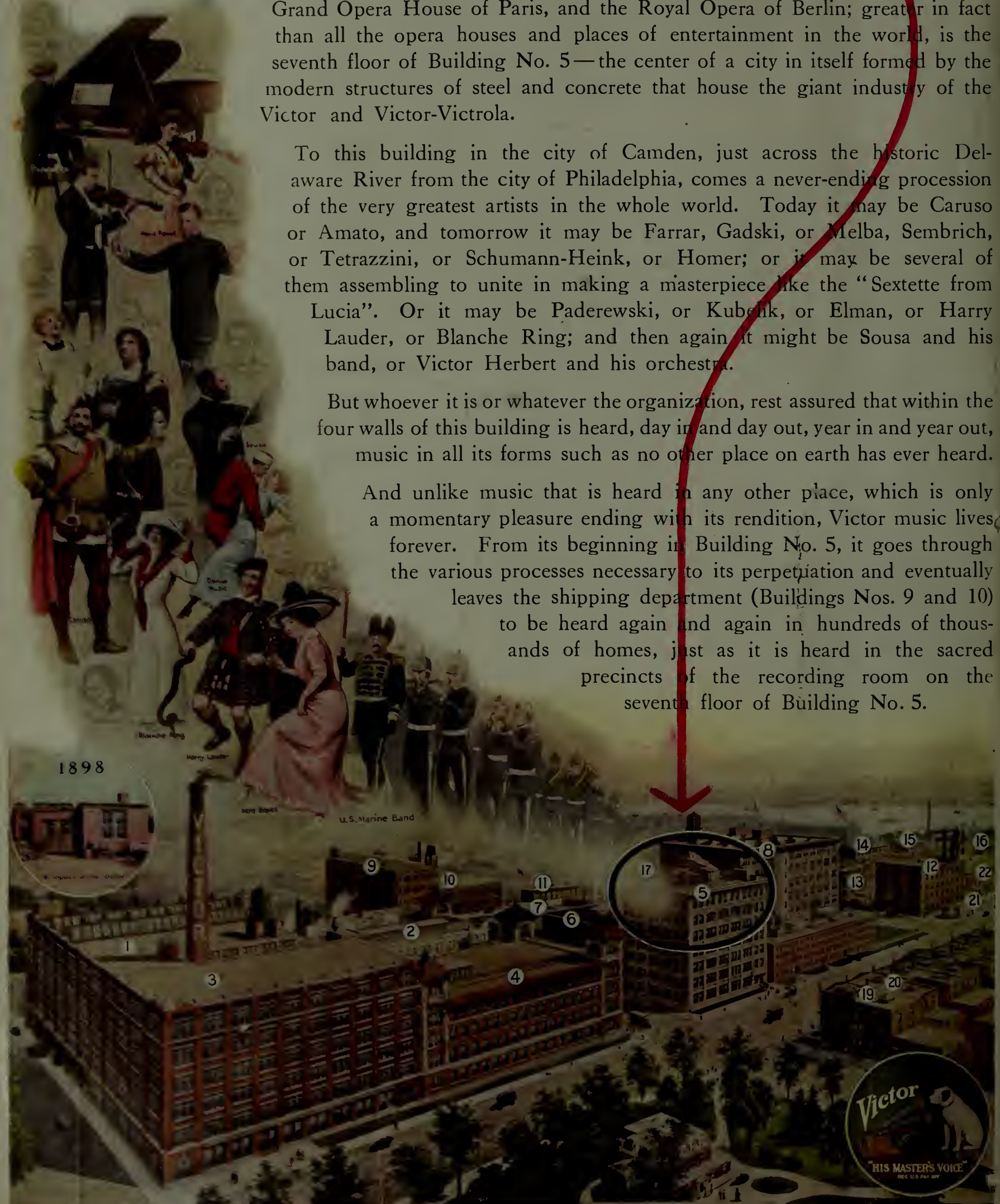
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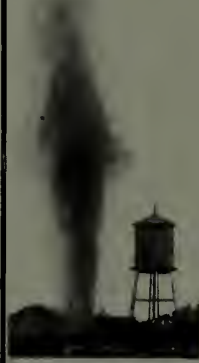
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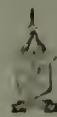
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THE SPIRIT OF THE WEST

# COUNTRY LIFE IN AMERICA

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September 15, 1912

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\$4 A YEAR POSTPAID



Mr. James R. Mellon's garden, Pittsburgh, designed by Mr. J. W. Elliott. The laws of landscape design are universal, but materials differ everywhere. The eastern part of the Middle West can grow practically everything that flourishes east of the Appalachian system.

## HOW THE MIDDLE WEST CAN COME INTO ITS OWN

A LESSON FOR EVERY NEW COUNTRY—A HIGHER IDEAL FOR HOME GROUNDS AND GARDENS—PRESERVING THE BEST "WESTERN" COLOR—MOTIVES FOR UNIQUE GARDENS EVERYWHERE

By WILHELM MILLER

NOBODY can love more than I do the Middle West—the runaway of the winds and of ideas. Between the Alleghanies and the Rockies, as Shaler reminds us, there are no mountain ranges to stop the continental rush of hot and cold waves, no barriers to human thought like the complicated mountain systems which have produced such a bewildering variety of languages, customs, and governments in Europe. In contrast with either the Atlantic or the Pacific slope, the whole vast basin of the Mississippi River is relatively simple. If Boston is not a geographical entity but a "state of mind," then the Middle West is, as William Allen White says, a "state of soul," and its spirit is progressiveness.

There have been three stages in the development of home life and outdoor art in the West. First came the pioneer period when the great enemy of mankind was the wind. The first thing to do was to plant trees around the proposed house. To-day when you travel through central Iowa you will see no farmhouses—only blocks of trees. Inside each of these windbreaks is a home. And long after

a community has become rich, the pioneer type of mind persists. Unthinking beginners still set out only the cheapest and quickest-growing trees, such as box elder, cottonwood, and silver maple, little recking that a noble red, pin, or scarlet oak will soon overtake them and endure for centuries after the get-shade-quick type of tree has ignominiously perished. Worse still, there are thousands of well-to-do people who will cheerfully put \$10,000 into a house and surround it with a perfectly bare yard. To them \$300 seems a fearful sum to spend on a mere lawn—just for grading, fertilizer, seeds, and labor. They can afford an automobile, but begrudge the cost of a garden.

The second stage in the history of the Middle West is the period of sudden wealth and luxury—the era of great estates and expensive gardens. At Bloomfield Hills, near Detroit, is a place on which \$250,000 is said to have been spent. From Buffalo to Minneapolis and from Pittsburg to St. Louis I have seen hundreds of flower gardens, every one of which has cost more than \$1,000. Everywhere the dominant idea is brilliancy, flowers, and

color. Everywhere you see neatly kept yards over which are scattered the jewels of the vegetable kingdom — blue spruce, purple beech, Japanese maples. Everywhere you see conscientious efforts to maintain a big mass of color all summer by means of annual flowers or tender bedding plants, such as scarlet sage, coleus, blue hydrangeas. In the parks of Chicago, St. Louis, etc., you will find millions of dollars lavished on horticulture that is technically perfect — equal or superior to anything in the oldest and wealthiest communities of the East.

All this sounds good and is good, but there is an ideal still higher. Before revealing the "third degree," I must explain that every newly rich community and every newly rich individual inevitably passes through a period of show, pretence, display. The object of gardening is joy, and the most obvious way to it is through the plants that give the most for the money and in the quickest time. Such plants include all cut-leaved, weeping, and variegated trees and shrubs; all flowers that bloom the first year from seed; all tender bedding plants. Every beginner naturally desires a garden of the loveliest and most famous flowers of all time, such as poppies, sweet peas, asters, nasturtiums, pansies, verbenas, heliotrope, mignonne, geraniums. I have not a word to say against such an instinct. On the contrary I wish every child in the world could have this precious experience. But temporary plants, like these, add more to the yearly cost of gardens than permanent plants, such as dogwood, lilacs, syringa, viburnum, and other trees and shrubs. And the thing that has brought ruin to thousands of splendid gardens is high cost of maintenance. Consequently, the older and more cultured a person grows, the more he comes to prefer the quiet, permanent, easy-going garden, because it costs less to maintain and is therefore more artistic.

Youth is always enraptured by the new, colorful garden, but to experienced eyes the garden that is full of flowers suggests needless expense and even the wilful desire to display wealth.

Well, then, if permanent plants are more artistic than temporary ones, what possible objection can there be in the Middle West or anywhere, to trees and shrubs with cut-leaved, weeping, and variegated leaves? What could be more efficient in producing striking form and color at the least cost than a weeping, pink-flowered dogwood, which gives pleasure to every passer-by the year round? Again, I have not a word of protest against the things in themselves. I yield to no one in love of a perfect specimen of blue spruce, weeping hemlock, or fern-leaved beech. But all horticultural varieties have one limitation — they are one degree removed from nature. They are man-made or, at least, would perish if left to nature. Consequently purple-leaved barberry is a shade more artificial than green-leaved barberry. A weeping beech is less dignified than an erect beech. A cut-leaved maple is less restful

than a normal maple. And the older a community gets the less it cares for showy, costly, exciting things, and the more it values simple, reposeful, tasteful things. New England has achieved the "third degree" in gardening because it started two hundred years before the Middle West. Boston prefers quiet, permanent, American trees to the brilliant European ones which are short-lived in our hostile climate.

The "third degree" in gardening comes to you only when you believe with religious fervor that the best possible plants for your garden and grounds are the long-lived trees and shrubs of your own neighborhood — not the most gorgeous foreigners in the world, even if they are hardy. For the highest home ideal is something as different as possible from business, and from the life of the theatres, race tracks, and clubs. The highest ideal is not excitement, but peace. Consequently, if 10 per cent. of your plants are exciting, you will have entertainment enough. Let the other 90 per cent. be the trees and shrubs native to your region or environment. When you agree to this rule you become one of the "elect."

You do not "know it all," for no one ever can, but you are initiated into the inner circle and your eyes are opened to a new wonder-world.

The Middle West is just entering this third stage of development in gardening — just beginning to see that Western character is more to be desired than all the finest plants in all the nurseries of the world. But what is Western character? And why should provincialism be encouraged? Is not the best art universal? Why should we not have in our home grounds all the loveliest trees and shrubs in the world, provided they are hardy? All these questions can be answered to your satisfaction, and the pleasantest way is for you and me to visit Highland Park



One of the dramatic spots on the prairies — Sinnissippi farm, home of Colonel F. O. Lowden, Oregon, Ill., showing stratified rocks covered with ancient pines, which are being reverently preserved as a disappearing type of American landscape

and Madison, the first of which shows where the "universal" comes in, while the second shows where "local color" belongs.

The most famous small place in the Middle West is Egandale, the home of Mr. Wm. C. Egan, of Highland Park, Ill. For nearly thirty years it has been the "show place" of Chicago. There is no five-acre place in the East that can vie with it for pictorial quality and finish. It is kept in order by a retired business man and one gardener. The place is chiefly noted for its three acres of lawn, framed by hardy borders of many sizes and shapes, but all arranged so as to form one great series of dissolving views, the pictures changing every step or two. Here you see very little Western character. Mr. Egan has used the showy plants of the whole world, but never in the showy way. He never scatters, he always groups. And he has convinced thousands of people that the pictorial style is more artistic than the showy.

The great principle illustrated by Egandale is that the universal element in gardening lies in design, while local

color resides in material. The laws of composition are the same in all the fine arts the world over. The Middle West cannot invent new principles, such as the open lawn, the irregular borders of shrubbery, the avoidance of straight lines; it can only apply them to new material. Therefore we should be cosmopolitan as to design, and provincial as to material. We now plant 90 per cent. foreigners and "horticultural;" we should plant 90 per cent. natives. For cosmopolitan material surely tends to kill all local color, and without that no good art can exist. There is no Western color in the purple-leaved plum, golden privet, variegated weigela, althea, or Crimson Rambler, which you see in every yard. There is plenty of Western color in the prairie rose, the crab apple of Iowa, the buckeyes, the buffalo berry, the Wisconsin willow, the green ash, and Minnesota honeysuckle.

To see this Western color at its best I invite you to make an automobile tour of the park system of Madison, Wis. I never could understand until I went there why a city of only 25,000 people could raise \$170,000 in five years and spend most of it outside of the city limits. The genius of the place, Mr. Olin, explained the reason — the five superb lakes. He got the owners of the shore front to give the right of way for a series of shore drives, and he began to plant these roadsides in the usual showy style with golden elder, *Prunus Pissardii*, purple-leaved barberry, and other "hard hitters." He paid an Eastern nurseryman \$950 for 1,400 of the most brilliant foreigners and horticultural varieties — about seventy-nine cents a plant.

Then he went to Boston, visited the Arnold Arboretum and the parks, and saw the higher ideal. Now the Madison parkways are equal to those of Boston, the roadside shrubbery blending with woodland and lake, instead of standing out in sharp contrast with the landscape, as gardenesque plants always do. It cost only \$1,400 to collect and plant 17,000 native shrubs, trees, and vines — less than one cent each. And the result is more artistic because more luxuriant, easier to maintain, no sign of manure, beds, or other handiwork of man. Every visitor steepes his soul in the beauty of the smooth, staghorn, and aromatic sumacs, the wild grape, Minnesota honeysuckle, and scarlet-fruited elder. The best plants for Madison are the natives of Madison. The best plants for any locality are its own trees and shrubs.

But this principle is understood only by the chosen few. As a matter of fact, what the Chicago millionaires chiefly desire are the great ornaments of Eastern gardens—

rhododendron, mountain laurel, box, ivy, Japanese maple, flowering dogwood, magnolia, Ghent azalea, rambler rose, Jackman's clematis, Japan iris — in short, everything foreign to the environment of Chicago. Yet these and many more plants will not thrive in Chicago, and usually fail in the Middle West. The one great complaint that rises from the solid West is "Why do Eastern plants fail here and how can we grow them?" I intend to meet this situation squarely. I know well enough what the people demand; they want foreign plants and horticultural varieties, and my answer is clear and cheerful. You can grow many of the foreigners that usually fail in the West if you are willing to spend extra money and care upon them. At least, you can do this locally, in sheltered spots, if you obey the rules of the game. Witness Mr. John Boddy's successes with most of the above list at Cleveland. He has grown splendid rhododendrons and other broad-leaved evergreens because he has omitted nothing done in the East. You must provide special soil free from lime, give protection from winter winds and sunshine, never



Mr. Loeb's bird garden, Chicago, designed by Mr. Jensen. The Western color is partly in the shrubs and partly in the bird's bathing pool which is surrounded by prairie-like rocks and the plants of prairie rivers

allow the plants to suffer for an annual mulch.

Of the most popular plants that are hardy east of the Appalachians, Buffalo, and Pittsburg can grow practically all; Cleveland, Detroit, and Cincinnati about 90 per cent.; Chicago, Milwaukee, and Madison, perhaps 80 per cent.; St. Paul, Kansas City, and Topeka possibly 70 per cent. Even near



Dr. A. S. Warthin's garden at Ann Arbor, Mich., which is designed to teach the children the oldest flower favorites. The Western color is in some oaks, perhaps 300 years old, which form one boundary of the garden

Chicago Mr. Egan grows such splendid Europeans as Norway maple, white birch, English beech, linden, barberry, flowering almond, and *Clematis Flammula*. And if you want cosmopolitanism you can extend this list indefinitely by writing to your state experiment station and visiting the biggest nursery near you. Mr. Egan and Mr. Jensen have published long lists of plants that are hardy or tender near Chicago. I shall not repeat them, because the list for every state and city is different, and because the constructive thing

for you to do is to consult the local authorities. So, even if you hate my ideas I will help you all I can to have your heart's desire. For there is no surer way to convince you that foreigners and horticulturals are the little end of the game. By all means squander fortunes on coddling tender plants — buying special soil for them, protecting them in winter, and giving all sorts of costly, extra care. The net result will be cripples. Then you will see that the highest joy in gardening comes from



The beginnings of Western color at St. Louis. A park-like portion of the North American grounds in the Missouri Botanical Gardens. Inspired by Dr. Wm. Trelease

luxuriance, and that the easy, glorious successes are native plants. And finally you will come to believe that the best ideal for any new country is not to look like the rest of the world, but to develop a strong personality of its own. Why not anticipate the inevitable development of your own taste? Why not save thousands of dollars and years of waiting by focusing now on Western color?

At first Western color seems elusive and impossible to define, because it is rarely positive; it generally consists in the absence of well known Eastern features. Sometimes the hills are gone; only flat land is left. Sometimes the evergreen trees are gone; only deciduous trees remain. There are very few Western plants of importance that have never been found growing wild in the East. Many are commoner West than East, but the most famous of these and the ones easiest to grow are now in the gardens of the world, and people forget that they are of Western origin. Examples are perennial phlox, calliopsis, gaillardia, sunflowers, coneflowers (*Echinacea* and *Lepachys*), and popular kinds of *Boltonia*, *Callirhoë*, *Liatris*, *Pentstemon*, *Salvia*, *Silphium*, *Stokesia*, *Erysimum asperum*, *Centaurea Americana*.

But the difficulty is only imaginary. The big thing is local color, and that is clear-cut and universal. Your local color lies in the two or three kinds of trees that are commonest in your neighborhood; in the commonest shrubs, vines, and wild flowers within ten miles of your own home.

I have already mentioned many Western plants that are full of local color. Others which have been used effectively by great artists are the Douglas and Engelmann spruces, Western red cedar, bull and jack pine, Douglas's varieties of arborvitæ, Canadian yew, Waukegan trailing juniper, Black Hill spruce, Western catalpa, green and prickly ash, Bechtel's crab, Ohio buckeye, black currant, Western gooseberry, paniced dogwood, highbush cranberry, *Viburnum nude*, wolfberry, Engelmann's creeper, *Hydrangea arborescens* var. *grandiflora*, shining sumac, and many species of *Cornus* and *Viburnum*.

Invaluable on flat land are the plants with horizontal branches, since they repeat the horizontal lines of the

prairie — land, crops, horizon, woods, and clouds. Therefore native hawthorns and crab apples make artistic frames for lawn vistas. Others with the same gift are the witch hazel and vacciniums of the woods, the alternate-leaved dogwood of the fence rows, the moisture-loving tupelo or pepperidge, and *Cornus circinata*.

Instead of experimenting altogether with foreign plants, why not take some of those plants which nature has adapted to your locality by aeons of experiment? The right way of getting endless, varied beauty in this good old world is to restore and preserve and intensify every bit of local color, every landscape upon which nature has set a distinct stamp. The great prizes of the Middle West are the dramatic spots, like the ravines, the sand dunes, the shores of the Great Lakes, the big rocks of the Mississippi, and the dalles of Wisconsin, all of which are on land that is cheap because unfit for farming or get-rich-quick subdivision. And there are lesser prizes everywhere for people of moderate means — gentle hills, meadows, brooks, ponds, rocky land, and even bog. These are the proper motives for unique gardens.

Every new country infallibly imitates the old one from which its settlers came. The East is now busy copying England and Italy, while the Middle West is joyfully spending its millions in copying the East. Neither community will find itself until a century has proved the superiority of natives,

and until natives are everywhere dominant. The fewer the species of trees that will thrive in your locality the greater is your chance to give the landscape a strong local flavor. The farther West you go the fewer Eastern plants you can grow. Yet western Kansas and Nebraska may become as full of local color as Scotland, where the landscape is dominated by only three species — pine, birch, and heather. Study Ruskin's laws of composition, which are as unchanging as gravitation — principality, repetition, continuity, curvature, radiation, contrast, interchange, consistency, harmony. They will be worth more to you than a hundred carloads of rhododendrons. The way for every country to find itself is to apply universal principles of design to the native materials. Let 90 per cent. of your planting consist of Western material!



Wild gardening at Egandale, showing maidenhair fern, ostrich fern, trillium, Virginia bluebells, and showy lady's slipper — all Eastern plants, but also Western





A typical example of the work of Louis Sullivan. The long horizontal lines, the use of the arch, the casement windows of unique design and their unconventional grouping, are all insurgent features

## INSURGENT ARCHITECTURE IN THE MIDDLE WEST

THE OUT-OF-THE-ORDINARY STYLE THAT HAS BEEN DEVELOPED BY THE CHICAGO SCHOOL OF ARCHITECTS — ITS MEANING AND ITS DESTINY

By CHARLES E. WHITE, JR.

Photographs by EUGENE J. HALL and HENRY FUERMAN

ARE the houses which are pictured herewith freakish or beautiful? Do they represent a fresh note of independence in American architecture, or are they merely extreme evidences of a revolt against tradition and the effete East? Are they in good taste or bad?

I shall not attempt to answer these questions. I doubt if they will be answered satisfactorily in this generation. Perhaps the West will always be at war with the East in matters artistic. I shall merely attempt to explain how these houses came to be built, and to show that there is a vital artistic purpose and a well considered logic back of them. There are many folk in Chicago who believe their creators to be prophets.

We are all familiar with "freak" houses, and with houses that are "unique" or "original" in style. We realize the danger of breaking away from time-proved principles, for a house is not a thing to be erased and re-drawn in a day. In the newer parts of the country, however, there are men who have had the courage of their convictions and who have cut loose from the traditions of L'École des Beaux Arts and the influence of the East, and who have been creating a style which, if not precisely new — for there is nothing strictly new in architecture — is at least a refreshing variation of old forms.

The insurgent school in this country is already well established. It is wholly American, born of American conditions, and has reached the point where it may be justly termed an

important movement in the history of international architecture.

Unfortunately, laymen are not always able to distinguish between houses that are mere "freaks" and those which are works of art. This is one of the misfortunes that must be laid at the door of the "new school." Inapt copyists, misunderstanding the spirit of the best "new school" work, have turned out crude, inartistic designs, far outnumbering the examples of good work, creating erroneously the impression that vulgar, ostentatious, freakish designs are along the lines of the "new school."

To trace the real history of insurgent architecture in America is to undertake a very interesting study of American life, for house design has always been closely allied to the life of the people. The stronghold of insurgency is in the Middle West — that great section of country whose western frontier is Minneapolis, with its eastern boundary in Cleveland, and its centre in Chicago.

Insurgency did not start in the Middle West, however, for one of the first insurgents was an Eastern man — H. H. Richardson, of Boston, designer of Trinity Church, who broke away from conventions and paved the way for his followers to do likewise. But conditions in the East are not conducive to development along insurgent lines. Your Boston architect is too close to the splendid examples of old town houses on Beacon Hill, with quaint Lynn ten miles away, and only



The Coonley House, by Frank Lloyd Wright, illustrates his theory that a long, low, spreading form expresses the spirit of the prairie. Vertical projections are carefully avoided. The salmon-pink decorative tile on the plaster walls are characteristic

fifteen miles to Salem, the heart of Colonial architecture. New York is the same, also Baltimore and Washington — the entire belt of Southern States, in fact, in all of which are fine examples of old buildings. It is no wonder these houses prove the inspiration of young architects who grow up under their influence, discouraging them from radical departure from conventional architecture.

But it is not so in the Middle West — a new country settled by progressives. Old houses in Chicago, as a rule,

built to withstand the cold of winter and prove comfortable during the heat of summer. Exterior surfaces must be protected from the weather by painting, and paths and walks must be provided where needed, with the usual provision for trees and flowers. Every architect is confronted with certain fixed conditions, be he insurgent or regular. He must get effects in his design to-day by handling materials nearly identical with the materials used for centuries.

Your insurgent architect uses the same materials as his regular colleague, but he succeeds in getting a somewhat different effect. Or, to be more explicit, the insurgent ignores many of the more imitative ideas of his colleagues and works out the problem fresh from the ground up, regardless of methods pursued by earlier architects. As a result, insurgent architecture is different. Insurgent houses are not like other houses, though there is, of course, a relationship. Their insurgency is carried out not only in design, line, and decoration, exterior and interior, but in the arrangement of the rooms themselves, which follows no conventional tradition.

The characteristics that distinguish the most radical Middle Western insurgent houses from ordinary houses can be found in the philosophy that underlies them. In every case the exterior design is eloquent of the interior arrangement. The following ideas, compared side by side with ideas influencing ordinary houses, are largely typical of the most unconventional work of the insurgent school:



A room in the Coonley house in which the native sumac has been used as the decorative motive. Rug, curtains, furniture, and windows are in harmony. Has the idea been worked out too far in the ceiling? Note the horizontal lines in fireplace and sidewall

are poor — very poor — capable of inspiring nothing but disgust in the minds of young architects. This ultimately produces a prolific soil for new ideas; so new ideas have sprung up here, crude or refined according to the skill of the designers. Another influence that has helped forward the movement is the fact that Middle Western citizens are not as a rule "hide-bound." They know little about and care nothing for "precedent." In other words, clients of Middle Western architects "stand for" insurgent architecture — a thing that Eastern clients are loth to do.

John Root was one of the first architects in Chicago to break away from stereotyped practices. He was followed by Louis H. Sullivan, who laid the foundations for a well defined movement away from the conventional. In Mr. Sullivan's office grew up Frank Lloyd Wright, a pupil who soon came to be a valued assistant, until he entered into independent practice. It is to Mr. Wright that we are chiefly indebted for the illustrations used in this article. Mr. Wright has developed insurgent architecture beyond the point where Mr. Sullivan in his prime left it, and as he is still a young man one may anticipate for him a future fraught with mature and reasonable architectural triumphs.

What are the characteristics of insurgent houses? How do they vary from others? What methods do insurgent architects pursue in working out their problems?

Every house is, to a certain extent, like every other house; it must have walls, a roof, and the usual number of windows and doors. Every house must be constructed of such materials as are in common use; it must be

#### INSURGENT

(1) Main floor frequently consists of three rooms — living-room, dining-room, and kitchen. Frequently these three are contained in one large room, with wings for dining-room and kitchen, screened from the living-room. The library is usually part of the living-room, and all parts of the house are in close inter-relation instead of each being partitioned separately.

#### REGULAR

(1) Any number of rooms is provided, including hall, living-room, dining-room, kitchen, reception room, and library. Each room is separated from others by partitions, though often connected by means of wide openings.



Another of Mr. Wright's interiors. It is two stories high, with a balcony. Note the predominance of straight lines and square corners. Has comfort been sacrificed for an artistic theory?



An insurgent house of the more conservative type. The exterior lines and window groupings are the distinguishing features. Spencer & Powers, architects



A bungalow near Chicago, showing many insurgent features. Tallmadge & Watson, architects

(2) Floor plans and elevations are in harmony, that is, the exterior of the building reflects its interior arrangement, so that one viewing the building from outside, might guess its interior arrangement.

(3) Rooms are often "articulated"; that is, each department of the house is in a separate wing, the kitchen being separated from the dining room wing, the living room from the kitchen, and so on.

(4) Windows, arranged in groups — usually casements, opening outward.

(5) Windows and window groups are often integral features of the structure. A house is constructed around the windows.

(6) Interior walls and ceilings are usually tinted and treated architecturally with casings, moulded or plain, applied to the walls in patterns dividing each wall into one or more panels. Pictures are used sparingly for decoration, and then in many cases they are murals, applied architecturally.

(2) In best work of the regular school there is a close relation between the outside and inside of the building, though not so intimate as in insurgent architecture.

(3) The floor plan is usually conceived as a sequence of rooms arranged within a parallelogram, with or without wings.

(4) Windows, single or in groups; may consist of ordinary windows, casements, or both.

(5) Windows and window groups float on a background formed by the walls of the house wherever the exigencies of the problem or the fancy of the designer dictate.

(6) Interior walls and ceilings are treated in hundreds of different ways — sometimes with wall-paper or tint, frequently with wood panels or beams. Pictures are framed and hung as desired.

(7) Furniture is usually designed especially for the house, ordinary commercial, "ready made" furniture being unadapted to these rooms.

(8) Frequently houses are built on a stone, concrete, or wooden base, there being no "water table" or underpinning line between ground and first floor.

(9) Decorative glass is largely used at windows, consisting of conventional, geometric, or flower forms patterned in metal-bar or grille.

(10) Façades are frequently made up of piers with curtain walls between, pierced by running groups of windows. Horizontal lines of cornices, window sills, and window caps are frequently accentuated by extending these lines entirely around the building.

(7) Any tasteful furniture may be used, though sometimes furniture is made to order, as in insurgent houses.

(8) Houses are of all types, some with and some without an underpinning.

(9) All sorts of windows are used, chiefly plain glass.

(10) Façades are handled in the variety of ways familiar to most observers.

These are, of course, but a few of the characteristics of the insurgent school as compared with the regular school, and they are not typical of all examples. Conservative houses differ from one another, as do more radical examples. The characteristics are quite marked in most cases, however, and one usually has no difficulty in recognizing and classifying a house of either school.



An impressionistic interior that perhaps suggests sunrise on the prairie. The furniture was designed for the room. Frank Lloyd Wright, architect

In general, these insurgent houses are characterized by long, horizontal lines and square corners. Homogeneity of design is a prerequisite. If the cube is taken as the basic idea, the pyramid would never be permitted in the design.

The roofs are either low pitched, with wide overhang, or topped with a plain, flat slab. In all cases, a quiet, horizontal skyline is sought.

Ornament in relief is sparingly employed, but there is no lack of incident in decoration. Designs in the windows, motives worked out in colored tiles on exterior and interior walls, and a persistent devotion to a color scheme are distinguishing features. In many respects these houses proclaim their debt to the Japanese.

Mr. Wright, in a brochure on the subject of his work, has set forth his artistic creed. He maintains that he and his fellows are

harking back to the Greek and Gothic spirit — the spirit of independence which is necessary to originality and creation. The spirit of the Renaissance, he avers, is the spirit that leans on past accomplishment, and is a spirit of retrogression rather than of progress. The ideals of Ruskin and Morris and the teachings of the Beaux Arts, that have hitherto prevailed in America, he would cut loose from.

In explanation of his work he says:

“The horizontal line is the line of domesticity.

“The virtue of the horizontal line is respectfully invoked in these buildings. The inches in height gain tremendous force compared with any practicable spread upon the ground.

“To Europeans these buildings on paper seem uninhabitable; but they derive height and air by quite other means, and respect an ancient tradition, the only one here worthy of respect — the prairie.

“In considering the forms and types of these structures, the fact that they are nearly buildings for the prairie should be borne in mind; the gently rolling or level prairies of the Middle West; the great levels where every detail of elevation becomes exaggerated, every tree a tower above the great calm plains of its flowered surfaces as they lie serene beneath a wonderful sweep of sky. The natural tendency of every ill-covered thing is to detach itself and stick out like a sore thumb in surroundings by nature perfectly quiet. All unnecessary heights have, for that reason and for other reasons economic, been eliminated, and more intimate relation with outdoor environment sought to compensate for loss of height.

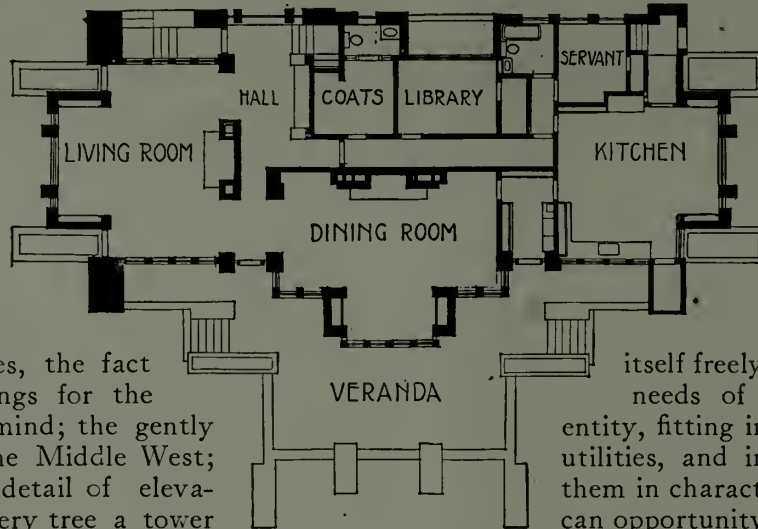
“The differentiation of a single, certain, simple form characterizes the expression of one building. Quite a different form may serve for another; but from one basic idea all the formal elements of design are in each case derived and held together in scale and character. The form chosen may flare outward, opening flower-like to the sky; another may droop to accentuate artistically the weight of the masses; another may be non-committal or abruptly emphatic, or its grammar may be deduced from some plant form that has appealed to me, as certain properties in line and form of the sumach were used in the Lawrence house at Springfield; but in every case the motif is adhered to throughout.

“In the buildings themselves, in the sense of the whole, there is lacking neither richness nor incident; but these qualities are secured not by applied decoration; they are found in the fashioning of the whole, in which color, too, plays as significant a part as it does in an old Japanese wood block print.

“These ideals take the buildings out of school and marry them to the ground; make them intimate expressions or revelations of the interiors; individualize them, regardless of preconceived notions of style. I have tried to make their grammar perfect in its way, and to give their forms and proportions an integrity that will bear study, although few of them can be intelligently studied apart from their environment.

“To thus make of a dwelling place a complete work of art, in itself as expressive and beautiful and more intimately related to life than anything of detached sculpture or painting, lending itself freely and suitably to the individual needs of the dwellers, an harmonious entity, fitting in color, pattern, and nature the utilities, and in itself really an expression of them in character — this is the modern American opportunity. Once founded, this will become a tradition, a vast step in advance of the day when a dwelling was an arrangement of separate rooms, mere chambers to contain aggregations of furniture, the utility comforts not present. An organic entity this, as contrasted with that aggregation; surely a higher ideal of unity, a higher and more intimate working out of the expression of one's life in one's environment.”

What is the future of insurgent architecture in America? One cannot tell. When the contributions of contemporary architects, regular or insurgent, and all shades between, have been poured into the melting pot of a decade, one cannot foresee what will be brought forth — an entirely new, American type, perhaps — or possibly an adaptation of all present styles. Time may decree that insurgent architecture, always in the minority, shall merely modify the influence of the majority. In any event, the present movement is so strong, and its influence so far reaching, that one can safely predict that it will be largely instrumental in molding a future for domestic architecture in America as distinguished as that of the past.



Floor plan of the Beachey house, showing the system of pier and curtain-wall construction, with grouped case ment windows, and an unconventional room arrangement



The Beachey house, by Wright, is another type of insurgent architecture, and a radical departure from tradition in design and construction



An inexpensive cement house by Wright, showing the pier and curtain-wall construction at its best. Note the treatment of the chimney, windows, and porch



St. Mary's River connecting Lakes Huron and Superior. There is a peculiar charm in the several placid waterways that make the great inland seas one



A sunset on Little Muskego Lake, Wis., in the heart of that delightful lake region which is the playground of both Chicago and Milwaukee

## BEAUTIFUL AMERICA

### X.—THE MIDDLE WEST—HEART OF THE COUNTRY

By HAMLIN GARLAND

Photographs by SUMNER W. MATTESON, CLIFTON JOHNSON, GEORGE H. SCHEER, CHARLES VANDERVELDE, J. H. FIELD, R. A. DOWD, H. D. AYER, J. E. SCOTT, and E. J. HALL

**G**EOLOGISTS tell us that in all the upper Mississippi Valley there are no hills in the sense of irruptive formations, and that all the ridges, coulees, bluffs and cliffs which diversify northern Illinois, Wisconsin, Iowa, and Minnesota are but the work of post-glacial floods modified by the wind and weather of a million quiet years—but a knowledge of these facts should not prevent the enjoyment of the varied scenic charm of the result.

With Chicago as a convenient starting point, it is easy to analyze the region—for our Mid-Western metropolis is built on what was once the marginal floor of Lake Michigan. For some fifteen or twenty miles to the west and south the land shows that it was once water covered. Then come the wooded hills which formed the ancient shore line, and here the "rolling prairie" of the old-time explorer begins, and a quietly beautiful landscape it is, with rich fields, and substantial farm-houses half-hidden by groves of elms and maples. Fat cows browse in the meadows, and endless fields of corn ripple in the wind. In the days of Joliet and La Salle it was an exquisite park-like region filled with elk and deer and prairie fowl, with wild flowers springing from the rich marshes in magical sequence. With towered cathedrals and many chimnied country homes it would possess something of

the pastoral grace of middle England or the popped plenty of central France.

Through this upland prairie glow streams flowing southward between bluffs varying from one to three hundred feet in height. As one goes westward one crosses successively the Fox, the Rock, the Mississippi, the Cedar, the DesMoines, the Missouri, each rich with traditions of the red people whom Duluth and Marquette found in possession. The Rock River Valley was Blackhawk's ancient hunting ground and Lorado Taft's giant statue on Eagle's Nest Bluff commemorates the passing of the great chieftain. Here, too, is a spring named by Margaret Fuller who found the landscape most satisfying in its fullness and luxuriance of color.

To the north of Chicago this rolling prairie, with its occasional timbered ridges, comes down to Lake Michigan

and deep picturesque ravines, barren headlands, and smooth beaches result, making the North Shore the most sought for and highest priced building land in the West. Many of the citizens of Chicago have country homes in the lake region of Wisconsin which begins sixty or eighty miles to the north and west of Lake Forest and extends far into the pine forests of the north.

In this lake region are the sources of the Fox and Rock rivers, and many delightful camps and summer



Making up log rafts between St. Paul and Minneapolis on the Mississippi River, that great waterway of commerce which all but severs the country



Every one of the Great Lakes possesses the fascination of the ocean, its vastness, storms, and ceaseless booming surf; tides and salt smell only are lacking



Pulpit Rock, a strange formation on the Wisconsin River, showing plainly how the sandstone shores have been worn into longitudinal planes by the water



At Portage, Wis., the Wisconsin River runs deep in a curiously carved and richly colored gorge called the Dells, where columns such as this are a feature



Lake Michigan and her sister waters have their lonesome, picturesque dunes, ever changing with the strong winds which have given Chicago another name



"TO THE NORTH OF CHICAGO THE ROLLING PRAIRIE, WITH ITS OCCASIONAL TIMBERED RIDGES, COMES DOWN TO LAKE MICHIGAN. AND DEEP, PICTURESQUE RAVINES, BARREN HEADLANDS AND SMOOTH BEACHES RESULT, MAKING THE NORTH SHORE THE MOST SOUGHT FOR AND HIGHEST PRICED BUILDING LAND IN THE MIDDLE WEST"



Rivers are dramatic spots in prairie country, and the rocky shores through which most of them flow are as precious as the water. The St. Croix River near Taylor Falls, Minn., is little less attractive than the Wisconsin, with its similar sentinel pines growing in pockets of sand



Sunset on "The Father of Waters" near Alma, Wis., showing the Minnesota bluffs in the distance. It is a picture of glorious color, of profound silence, of majestic loneliness, and of a dream solemnly beautiful by night, gleaming, and purple, and empty by day





"At Trempeleau, midway between La Crosse and Winona, the valley of the Mississippi is most nobly fashioned. In spring the river banks are carpeted with flowers. In autumn the oaks and maples cause the heart of the painter to ache with their loveliness"



"Between the Mississippi and the Missouri, in the states of Iowa, Minnesota, and the Dakotas, is a vast prairie region, a most productive farming country with gentle hills, slow streams, and rich dark soil." Grain raising on a large scale is the chief occupation of the people



"At Devil's Lake, Wis. something like mountain rocks and a geologic uplift give distinction to a small body of water." Balanced Rock is the chief curiosity

homes are located on these lakes. Among the best known of the lakes are Geneva and Oconomowoc, but many others of equal beauty remain quite untouched of the summer resident. Almost ideal farmsteads look across these placid waters. Sheep pasture on their smooth slopes and cattle wade in their grassy shallows. No matter which way the traveler goes, either by way of Beloit and Madison or through Milwaukee and Portage, the land is almost equally pleasing.

Madison, situated in the midst of three lakes, presents an ideal location for a college, and Wisconsin in general has been called the New England of the West because of its mixture of hills, streams, lakes, and forest land. Its prairies are all confined to the southeastern portion of the state. To the west and north the forests thicken and to the west the hills grow higher. At Devil's Lake something like mountain rocks and a geologic uplift give distinction to a small body of water, and the Wisconsin River at Portage runs deep in a curiously carved and richly colored gorge called "the Dells." To the north the cut-over pine lands gloomily predominate, but to the west the coulees deepen and the hills uplift. Isolated castle-like formations rise curiously out of the level floor of the valley. At Camp Douglas one of these abrupt formations is notably picturesque, but there are many others even more singular in shape.

From this valley the railways pass westward by tunnel through a narrow ridge of land and go down to LaCrosse, which is the site of an ancient French trading post. Here the bluffs are nearly twelve hundred feet above sea level and tower high over the town and the river some six or seven hundred feet in height.

For three hundred miles the Mississippi runs deep in its channel with many attractive lateral coulees or valleys, each of which yields charming vistas and noble sites for

farmsteads. Follow any of these streams and you come at last to the ancient level of the land, the prairies of Minnesota and Iowa. They all rise in the region where the coulees begin and the prairie leaves off.

There is charm in the lower lake region of Wisconsin and charm in the upper lake region of Minnesota, but when all is said, the great central river holds first place throughout this wide spread of wooded ridge and prairie land, not merely for its serene beauty but also for its traditions of the French explorers and its primeval inhabitants. For ages it was the eastern boundary of the Sioux, the dividing line between the plainsmen and the forest folk and the legends of these tribes are filled with allusions to its deep waters, its high banks and its beloved shores.

From Clinton northward the bluffs increase in altitude till between LaCrosse and Winona they reach their maximum in boldness and beauty. From Winona they gradually diminish till at St. Paul they are barely two hundred feet in height. At Trempeleau, midway between LaCrosse and Winona, the valley is most nobly fashioned. Here is the point at which Zebulum Pike about 1805, in overflowing admiration, arrested his expedition and climbing to a rock which overlooked the stream for many miles, carefully recorded his delight in the splendor of the scene — and truly — at the close of day when looking up the river from Trempeleau, I can imagine the charm it must have had for the white explorers. I am always reminded of the lines in Hiawatha, which describe the hero's journey into the purple sunset — so mystical, so superb is the vista at this hour. In spring the river banks are carpeted with flowers, in autumn the oaks and maples cause the heart of the painter to ache with their loveliness.

(Continued on page 44)



Rock River, Ill., like the rivers of Wisconsin and the other states across the Mississippi, is notable for its striking shore formations



An effective treatment of a ravine bridge on the Wheeler estate at Lake Forest. Ravines are the great picturesque attraction of the North Shore



The Walter Brewer home in one of the newer parts of Lake Forest where the estates are notable for their wide extent. They are measured by acres

## CHOOSING A CHICAGO SUBURB

By SHERMAN R. DUFFY

Photographs by FREDERICK O. BEMM, HENRY FUERMANN, and others

WHEN a Chicagoan moves to a suburb, if he is a wise man, he will keep the matter a deep secret until he is established. Otherwise he will find himself in the embarrassing situation of a modern Paris forced to award the apple of beauty to some suburb represented by clamorous friends, and in so doing he will incur the hostility of other friends living in other suburbs that they firmly believe to be infinitely superior in charms to the one selected.

The Chicagoan believes belligerently and whole heartedly in the beauty and advantages of his particular suburb. It is faith unshakable and he will advance arguments by the score and by the hour to prove his point, so he might just as well be let alone to pity you for your crass stupidity in preferring some other location.

John Smith committed the grave tactical error of announcing that he was going to move to a suburb before he had a suburb selected and himself nailed to his choice with a deed to the premises to be occupied in his possession. Before going any farther it may as well be said that John Smith is not the real name of the man who figures in this incident, but the man was a real man and his experience was common enough to be generalized under a popular *nom de guerre*, as it were.

Occupying a home in a section of the city, formerly a fine residence district, he had viewed the approach of factories and business interests until he was only a block from a big soap plant. This was bad enough, but when a boiler factory came into the immediate neighborhood and the summer of 1911 scorched the city, he decided it was time to move and said so. He did move, and is now a happy suburbanite enjoying all the

pleasures of country life but within easy distance of the heart of Chicago. It took him two months to find out where he wanted to go after he made his announcement to his friends. Before he made public his contemplated change he had a very definite idea, but it didn't last long when assailed, and then his education in the extent and beauties of Chicago's suburbs began.

Listening to the eloquence of friends from the north, the northwest, the west, and the southwest, he discovered that there are more superlative suburbs than could be conveniently occupied by one man during the course of his natural life. So John Smith, like a wise man, started forth to see for himself. He found that in order to simplify matters he must draw the line somewhere, for Chicago's suburban life extends almost indefinitely, occupying southern Wisconsin and northwestern Indiana, Lake Geneva, 75 miles from Chicago being one of the wealthiest and most wonderfully beautiful sum-

mer colonies in the country, so he placed the limit at thirty miles.

Within a circle of thirty miles' radius drawn about Chicago there are more than two hundred suburbs. Many of them have no particular attractions other than that they offer relief from the bad air and crowded dwellings of the city. But there are scores of suburbs of a natural beauty equalling any suburban district in the United States.

As John Smith soon found out, the eternal debate is:

Resolved, that the North Shore is more beautiful than the western suburbs.

On the affirmative side will be found Evanston as the leader of the chain of suburbs which line the lake shore north of Chicago almost to the state line of Wisconsin.

On the negative are ranged Oak Park and a group of western suburbs generally known as

suburbs, because the C. B. & Q. R. R. furnishes the chief avenue of transportation, and another chain along a western branch of the Northwestern railroad, such as Wheaton, Elmhurst and others.

And then there come dissenting voices from a middle section to the northwest of the city and still another murmur from the Ridge district to the south and westward.

Evanston and Oak Park are the two largest suburbs of Chicago. In fact, they keep Chicago from spreading farther in their respective directions by rising up and swatting by the power of the ballot any sentiment suggesting annexation. Oak Park resents this suggestion more vigorously because it is much closer to town. Evanston cannot consider such an untoward event as even



The home of Frank L. Wean at Highland Park, a broken country district where splendid homes nestle among the forests or boldly stand out on the lake shore



Riverside takes its name from the Des Plaines River flowing through its heart. It is a town of roads and landscapes laid out by Frederick Law Olmsted

In Riverside the atmosphere of rural life is rigidly maintained, all of the splendid landscape work being done with nature's materials

remotely possible, and refuses to be disturbed.

The Riverside man will tell you that he lives in Riverside — accent on the *lives* — he does not camp out in a summer palace. His place is a home good enough for anybody from one month's end to another. Riverside is real country. You get real country life there, he will assure you. It is not summer resort territory. Transients kindly move on to Hinsdale or preferably to the North Shore.

He will descant upon the natural beauties of his suburb, tilt his nose in the air, assert that beauty unadorned is adorned the most and that Riverside has disturbed the beautiful contour of the countryside as little as possible to permit the building of homes and roads offering access to them. He will pooh-pooh the idea of spending \$45,000 to put a magnificent little bridge over a dinky little ravine that ought to be filled up. He will assure you that the North Shore is magnificent as a summer colony, but that it is no place for a human being to live in winter when the drear winds of Lake Michigan whistle over the bluffs, up through the ravines and shrivel the scenery and population.

The dwellers of the North Shore can assure you that Riverside and those other western places probably are all right, but why on earth should anybody want to live there unless they have to? They will take you out on the bluff which majestically lines the lake shore and point to you the promised land of suburban Chicago. They will lead you to the ravines which cleave this bluff every little ways and meander up into the country side and ask, "Where can you find more natural beauties than these?"

John Smith listened to hours of such arguments and, having friends in both sections, did the only

wise thing under the circumstances — temporized, admitted the truth and force of the arguments of both and meanwhile proceeded about his business.

There are no finer suburbs in America than these North Shore and Western towns all within less than an hour's ride by automobile, suburban railroad, or electric car service. The North Shore has been selected by the very wealthy residents of the city for their summer homes, and magnificent structures crown the bluffs along the lake and overlook the beautiful ravines. These ravines are the great attraction from a picturesque standpoint and the greatest artistry and ingenuity has been used in working them into the general effects of the home grounds. Some have entrances over an ornamental bridge into their homes. Some homes are built upon the edge of these ravines with a leafy vista leading to a shimmering patch of Lake Michigan framed in foliage.

Woodland drives cross and recross these ravines over bridges of all styles from rustic to highly ornamental stucco and masonry structures. Evanston, Winnetka, and Wilmette are not so diversified in scenery as the suburbs farther north, such as Glencoe, Highland Park and Lake Forest, where the lake bluff reaches its greatest height and the ravines their greatest depth.

Lake Forest has had as its chief attraction the Onwentsia Golf Club, which has drawn as many summer residents as the Exmoor club has to Highland Park. Both are old suburbs and the estates are notable for their wide extent. They are measured by acres. Lake Forest is noted for its wonderful lawns and gardens, all being framed by the heavy oak forest and sloping into the ravines.

Highland Park is more broken country and its ravines are its pride and joy. With their sides covered with trees and shrubbery and a view of the lake in the distance they are wonderfully picturesque.

Magnificent homes nestle among the forests or boldly stand out over the lake and every one of these homes has its gardens, the gardens being as different in style as the architecture and tastes of the owners.

Originally the homes of millionaires in the summer, they have attracted large numbers of people of humbler means who are occupying the outlying territory. The lack of small houses is one feature that strikes a new-

comer. All the places are built on a magnificent scale, but smaller suburbs with more modest homes are growing steadily along the North Shore from the city limits which were once the home of a myriad cabbage growers; and where some ten or fifteen years ago a trip through the brassicaceous breezes between Chicago and



Several small creeks at Riverside aid the Des Plaines River to beautify the landscape



The Stonehill residence at Glencoe as seen from Lake Michigan. Along here the lake bluff reaches its greatest height and the ravines their greatest depth

Evanston was far from a delightful experience, now it takes one through a fine residence section.

And now to hark back to Riverside and its western companions which are growing even faster than the North Shore towns because they offer more inducements to people of moderate means. When one is in Riverside and thinks of the North Shore, the conclusion is "how happy I could be with one were t'other dear charmer away." While Lake Forest, Highland Park, Glencoe, and other North Shore suburbs are famous for their acres, Riverside is famous for its yards. No finer and more beautiful country suburb could be found. It enjoys the unique distinction of being a town without a corner. Riverside abhors an angle as much as nature does

a vacuum. If a sharp corner is discovered obtruding its ill favored presence it is at once rounded off. The streets wind through a forest in great sweeping curves. No house may be built closer to the curb than sixty feet and the lots are all at least 200 feet deep. As every one knows who ever suspected himself of having artistic ability, the double curve is the line of beauty. There are nothing but lines of beauty in Riverside.

A stranger has his troubles in Lake Forest owing to its winding streets, but it is even more puzzling in Riverside. When one starts to visit anybody in Riverside for the first time he starts unwinding himself among the trees and keeps on doing so until he reaches his destination. It may take a house to house canvass, but you are sure to arrive, for by keeping on going Riverside will be circumnavigated.

There are no streets in Riverside. They are roads. It is truly democratic and takes great pride in the fact, and the atmosphere of democracy and rural life is rigidly maintained. In order that the latter may be kept inviolate, they have no mail delivery. With Jeffersonian simplicity the Riverside is amble to the post office daily to secure communications from the outside world. Likewise to maintain the country idea, the houses are unnumbered and a stranger taking up his residence must have something of the instincts of a homing pigeon.

The town is a perfect example of landscape work with nature's materials. It has a most interesting history. It was laid out by that master of his craft, Frederick Law Olmsted in 1860-70, at the request of the Riverside Improvement Company which incorporated at that time. The winding roads were laid out through the forest with the Des Plaines River and several beautiful little creeks as the chief features of the landscape.

The Des Plaines furnishes the aquatic feature for the town and in the earlier days was one of its chief drawbacks; in fact, about the only one, for in the spring it had a habit of overflowing its banks and it was annually damned until the progressive residents arose in their might and dammed it perennially so that it is now under perfect control. You can't see much of Riverside except the trees until you wander through its beautiful drives.



Summer home of Ira J. Couch, Glenview, adjoining the Glenview Golf Club, near which is "The Park" for sixteen years a successful cooperative community

Neighboring suburbs have much of the natural beauty of Riverside but lack its beautiful landscape effects.

There are two suburbs to the northwest of Chicago which are unique in their way. Edgebrook, nestling in the woods on the banks of the north branch of the Chicago River before that much abused stream had been contaminated by the city, has as much natural beauty as any of its neighbors, and is the site of many beautiful homes. It is notable for the fact that there isn't a store of any kind in the place. A stranger in those parts must carry his lunch with him or else journey along to Glenview. There is nothing for sale in Edgebrook except building sites and not a great quantity of these.

North of Edgebrook is located Chicago's beautiful golf club, the Glenview. Around this club in the country have been built a number of summer homes and at the Glenview station proper, a little north of the club, is located the most unique suburb in the country.

This is known as "The Park" and is on the outskirts of the village of Glenview. It is said to be the most successful cooperative community in the United States. It has been in existence sixteen years. Originally it was a twenty-acre cornfield. This country is the nursery district of Chicago and the soil is of remarkable fertility. A central portion of ten acres was set apart as common ground. A little artificial lake was constructed and it was heavily planted with native forest trees and shrubbery providing fine vistas. There are twenty families occupying the park in handsome residences surrounding the central common, and the expenses of maintenance

are shared jointly. A heavy border planting of evergreens conceals the park perfectly and its existence cannot be discovered until one has entered it.

The original cost of the tract sixteen years ago was \$6,000 and it offers a fine example of the possibilities of cooperative country life. "The Park" has its own church and its own school.

Chicago's tremendous movement for country life has been chiefly north and west because its inhabitants seem to be taking to the timber. Trees seem to be the great incentive for the city dwellers, and so wherever there are trees or water there is a suburb and more are constantly being started.

Toward the south the suburban life has not developed so rapidly because the country is low and flat, but to the southwest lies a chain of most attractive suburban towns which are within the limits of the city yet far enough away from the downtown district to be in every sense of the word country suburbs.

This is the Ridge district and it has the distinction of being the only hill in Chicago. It has the Ridge Country Club and the Beverly Hills Golf Club as attractions for country life, and as much of it is higher than the city and lies in a wooded belt, it is booming. In this chain are Longwood, Beverly Hills, Walden, Tracy, Chicago Lawn, Morgan Park and other towns. It is a typical home community and has no summer colony. Still further south are two big golf clubs, the Homewood and Midlothian which are a nucleus for new colonies.

Wheaton, which for years was a sleepy country town, the county seat of Du Page County, was aroused to new life when the Chicago Golf Club, scene of many national tournaments, bought an old farm on the edge of the town, remodeled the farmhouse into a finely appointed clubhouse and established itself as one of the most important summer colonies of Chicago some sixteen years ago. This is a typical country life section, for many of the farms around Wheaton and neighboring towns, such as Elmhurst, have been purchased by Chicagoans who have built summer homes and go in for fancy farming, dairying and gardening.

The possibilities of country life and city business in Chicago are so enormous that it is difficult to gain any adequate idea of them, but the population of the city is steadily moving to the green fields and trees, as the constantly increasing suburban traffic shows.

In former years it was considerable of a puzzle to know why the founders of Chicago, who selected a most unpromising looking swamp as a site for a settlement, gave it the motto of "Urbs in Horto," a city in a garden, for there were not any gardens discernible to the naked eye. It is altogether appropriate in the year of Our Lord 1912, for Chicago is a city in a wonderful garden stretching from its northernmost confines to its southernmost and widening every year.



The home of George T. Dyer at Wilmette, a very charming suburb, though not so diversified in scenery as other places farther north on the lake



In Glencoe and other Chicago suburbs are to be seen examples of the Mid-Western school of architecture. This is the home of Alfred T. Washington



The Harold F. McCormick house at Lake Forest, Ill., overlooks the water seventy feet below from a wooded bluff well suited to any treatment of Italian feeling

Although formal in character, the spirit of the Italian garden has been secured with hardy American plants. It is a garden to enjoy, not to exhibit

## THE SPIRIT OF THE RENAISSANCE ON THE GREAT LAKES

THREE MODERN MID-WESTERN HOMES IN WHICH EASTERN TRADITIONS HAVE BEEN DISCARDED AND THE ITALIAN RENAISSANCE STYLE ADAPTED TO LOCAL CONDITIONS

By PHIL M. RILEY

Photographs by JULIAN BUCKLY

**M**OST of the early settled sections of our country have their traditions in architecture, told to us in the silent language of many splendid old houses and other buildings expressive of the sterling temperament and character of our forefathers. There is the New England Colonial, the Dutch Colonial of New York and Pennsylvania, the Colonial of the South or almost pure Georgian, the Spanish of Florida and southern California, and the French of the old Louisiana.

These styles represent the first American architecture bearing the stamp of the Renaissance, and in succeeding years have rightly influenced more or less the character of the best homes. Their basic principles, motives and details of design are still in constant use to-day, often employed in new ways to solve the problems of

modern living conditions, but always closely associated with the spirit of the original usage.

Such broad application has permitted great diversity of design, yet has imposed a very much needed restraint noticeable to any one who has seen the characteristic domestic architecture of the sections named. No section can be considered tradition bound, though, for the modern Colonial house, for instance, wherever located, often possesses the best features of its predecessors in several sections cleverly combined into a consistent whole.

Unfortunately for the "heart of the country" — the Middle West — it really had no architectural traditions to guide it in the critical period of its development. While the earliest European explorers were Frenchmen, the region became English territory before any homes worthy of the name were built, and not for two centuries after the founding of our coast towns did the first permanent settlers arrive from the East. Then came sudden wealth taken from the rich, untilled soil of the prairies by these pioneers, creating the desire for great pretense and display in the home. A wave of style confusion had just swept over the eastern states; fanciful, meaningless ornamentation for mere picturesqueness was even there the vogue, and it was this influence, augmented by the spirit of the times, that dominated most of the homebuilding in the Middle West.

Having no dignified and simple old houses about to exert their restraining influence, but rather the feeling of being virtually in a new land where former precedent did not matter, led to even greater extremes than in the East. Each man set about building a home more unique or "original" than that of his neighbor, as is often done in new sections and among the newly rich. In accomplishing this, many styles of past epochs were slavishly copied and many sorrowful attempts were made toward "originality."

These copies of styles that were never really ours, Gothic, Romanesque, Byzantine and others, were strangers in a strange land, out of place, unsuited to the requirements and lacking the spirit of the originals. They were mere affectation; our entire mode of life is different than when those styles came into being,

and many of their motives are meaningless and superfluous to-day. Only radical changes in the history of civilization create equally great changes in architectural style. There has been none since the Renaissance and should one occur it would not revive mediæval architecture. The evolution of style is forward, not backward as in the temporary period of aberration from 1850 to 1900. Every successive style in the natural evolution embodies the spirit of contemporaneous



This plan of the McCormick grounds shows the proposed architectural treatment of the lake approach



The open loggia and court terrace between the wings of the McCormick house

life, for only by building as we live is a living architecture possible.

The East, being an older and more conservative community, has recovered from its temporary fancy for the most part, but the Middle West seems slow to fall in line. It does not now indulge so much in copying as formerly, but it has

an inordinate desire to be "original." It is impossible, however, that the Middle West invent new principles; it can only apply the already accepted ones to local materials and conditions. Nevertheless, there has come into being within a few years a distinctly Mid-Western school of architecture, an insurgent architecture, to which the neighborhood of Chicago seems to be in large measure committed. Its principles, as explained by the leading exponents of the school, seem consistent because they appear to be a localized interpretation of universal laws, but in the actual work of these men more conservative architects feel that their imaginations have not been held in check by their own principles. However this may be, it is true that the most consistent development of any new section lies not in resembling the rest of the world, but in asserting its own individuality or "local color." This does not mean casting aside all precedent; the present should always be related to the past. New

nature everywhere supplies suitable materials which need no improvement; we have but to select, eliminate and rearrange in accordance with the laws of design and composition. Although of human origin, these laws are universal in every art and in use by every people. If we would progress in our architecture we can but accept what has come to us, adapting and modifying it to our modern conditions and individual needs. What, then, should be the guiding spirit of domestic architecture in the Middle West? Our foremost American architects tell us that it should be, as for every other section of the country, to fit the house to its site and purpose, influenced, perhaps, but not bound, by our national traditional styles, always keeping in mind the fundamental principles of the Renaissance which gave our traditional styles being; for it is more important that we be modern than American.

The whole country is relatively small to-day; the Middle West is an integral part of our great nation, its people descended from the early settlers of the Atlantic Coast and as proud of the country's history and development as any of us. It follows that the various types of the modern Colonial house are as appropriate to the Middle West as to the Eastern states, but our home designs are rightly broader than our national spirit alone. The really progressive architects in the Middle West, and those in the East who are designing houses for the Middle West, are working chiefly in the style of their own time, accepting gratefully and developing what has come to them, guided by the basic principles of the Renaissance and the universal laws of composition, applying the Classic orders in a broad manner to our present requirements, conditions and materials, and thereby interpreting our contemporaneous life. They are solving their problems in the simplest and most natural way, evolving the elevation from the floor plan with modifications and new uses of the forms and motives that have gone before, always realizing that the final design is the natural result of the purposes for which it was intended. As a result, their houses are always modern, never period reproductions. If one is reminiscent of an English Georgian manor house, another of a New England Colonial farm house, and a third of an Italian villa, it is because its site and the life of its occupants calls for the treatment which has characterized a style of the past, even though the structure itself is thoroughly modern and unlike any previous house in its details.

Among the more notable and consistent exemplifications of these ideas may be mentioned the work of Charles A. Platt. His formal brick houses in New England and New York are of a simple dignity in complete harmony with the best traditions of their oldest and most distinguished neighbors, yet distinctly modern. There are some of his houses of a similar character farther west, but about the Great Lakes his designs become reminiscent of the Renaissance

villas of the Mediterranean and the Italian lakes. The details and motives are much the same as in his brick houses, the principles of composition identical, but their different floor plans and elevations in response to the requirements of a different mode of life, their very situation, and constructive materials give them a very different character and appearance. These two types for which Mr. Platt is so well known furnish a



Intimate relations between house and lake and isolation of the garden are features of the Mather grounds

problems are solved only by modifications of old forms used with greater freedom than previously.

"Local color" in a home is seen chiefly in the landscape about the house, in the materials of which the house is constructed, and in the measure in which the design of the house fulfills the requirements and expresses the life of its occupants. Thanks to an all wise providence,



On a brick terrace just below the portico a cherubic fountain stands in a small water garden

vivid instance of the very diversified aspects which modern Renaissance architecture may take.

The shores of these inland seas, the Great Lakes, and of the smaller lakes of Wisconsin and Minnesota, have in recent years become the playgrounds of men of education and wealth where they have located their summer homes. The houses, therefore, are intended not only to supply essential home comforts but the enjoyments of the country, such as the natural beauty of the surroundings and the opportunity for parks, gardens and garden features. The requirements are very similar to those of wealthy Italians of the past, and so it is natural that many of the features that gave them comfort and pleasure will still serve others likewise, and that a house which meets these requirements resembles the Italian villa in general characteristics, as does the Harold F. McCormick house at Lake Forest, Ill., the William G. Mather house at Cleveland, O., and the Russell A. Alger house on Lake St. Clair, all designed by Mr. Platt.

In each of these homes is discernible that same



On the lake side of the Wm. G. Mather house there is nothing to indicate the presence of a garden; in the garden the lake cannot be seen. There are always two widely differing attractions, so that if you tire of one the other provides a complete change of scene

splendid judgment which guided Italian architects in the selection of site, that ingenuity with which every natural advantage was made the most of, that skill with which the disposition of each feature was managed to create a delightful, harmonious whole. In each case, too, there is noticeable an admirably handled progression from the natural surroundings to the formality of the gardens and grounds adjacent to the house. Yet even there the spirit of the Italian garden has been secured with hardy American plants. The houses themselves, while simple in arrangement and restrained in ornamentation, are of great beauty and strong character. The interiors, of which Mr. Platt designs the decoration and furnishing, are in accord with the nature of the house; dignified, yet comfortable, homelike, and most livable. There is something about them that is distinctly domestic.

The shore of Lake Michigan at Lake Forest, Ill., is particularly well suited to any treatment of Italian feeling. The water frontage of the large McCormick estate, for instance, consists of a wooded bluff near the edge of which the house is located just back of a court terrace. From this there is an abrupt drop of seventy feet to the water level which is to be developed into an architectural feature in the characteristic Italian manner. An avenue was cut through the trees, providing a superb view of the lake from the terrace and permitting the construction of an approach from the lake by stairways from a bath house and swimming pool at the bottom, past fountains, pools, cascades and other embellishments at the several levels.

The other approach from the highway gives no indication that the lake is nearby. The drive leads through the forest, then divides near the house, leaving a broad lawn before the entrance. Not until the house is entered do the wonderful vistas of the lake greet you, but when you find yourself in the stone-lined, barrel-vaulted hall, the open loggia, the walnut-paneled library or dining-room, all floored with marble or terrazzo, you can readily imagine that in very truth the blue waters of the Mediterranean are below. On opposite

sides of the hall an open court and fountain court are characteristic features, about which various rooms range. The drawing-room with its walls of Formosa marble and floor of teak is notable for its warmth and inviting appearance in spite of the severity of the materials. The painted ceiling here, as in the other rooms, is of great interest and rare beauty.

The house itself is of fireproof construction, cream white stucco over brick, with limestone trim. The roof is of red tile over reinforced concrete, and there is another pleasing touch of color in the cornice with its weathered brown brackets and panels in blue and gold between.

High bluffs being absent on the Erie shore near Cleveland, the William G. Mather house is on rather intimate terms with the lake. It stands near the shore and the lower floor is hardly more than thirty feet above the water level. Of the same construction as the McCormick house, it is somewhat different in appearance, very largely because of the flat roof and surmounting balustrade. The cornice just below is a pleasing feature and the Classic columns lend an air of dignity. It will be noticed that these are Doric on the garden side and Ionic on the lake side. This aids in carrying out the idea of isolation of one interest from the other; each picture is separate and distinct. On the lake side there is nothing to indicate the presence of a garden; in the garden the lake cannot be seen. There are always two widely differing attractions, so that if you tire of one the other provides a complete change of scene. It is a wise provision in a house to be occupied the year round.

Here again, the lake approach has been made an architectural feature, a stairway from below the normal water level leads upward through a gap in the retaining wall to a landing from which wing flights lead around to opposite sides of a brick-paved terrace where a cherubic fountain stands in a small water garden. Still another wing flight winds around to opposite sides of the semicircular portico, which, with its stately columns, is the distinctive feature of this elevation. The use of the light metal balustrade is

interesting in that while fulfilling its mission it does not break the stronger lines of the columns.

The other approach is down a long straight avenue from the highway, along which just a glimpse of the house is to be seen beneath some magnificent elms. This satisfies the passerby without interfering with the privacy essential to home comfort. The garden, while of a formal character laid out with gravel paths and low box hedges, is simple and distinctly American in its materials. An architectural feature of the garden is the pergola, with its Doric columns and windbreak to the north.

The most distinctive interiors of the house are the cheerful white-paneled, oak-floored living-hall with its comfortable divans; the more formal dining-room in dark oak; and the inviting walnut-paneled book-lined library.

The Russell A. Alger house on little Lake St. Clair, connecting Lakes Erie and Huron, completes this interesting trio. Unfortunately no photographs have yet been made of it because the planting is still young. The situation here is that of a long narrow estate of several acres with a short lake frontage. As developed, there is the level of the major portion of the grounds, including the garden, and the lower level of the esplanade between the house and the lake. A long straight drive leads down the centre of the estate under tall elms to the entrance on the garden front. Here one enters the rooms on the main floor, which is the second; hall, living-room and dining-room, at once rich and simple in their walnut trim and plaster ceilings of appropriate design. Glazed doors open from the hall upon an iron balcony overlooking the esplanade below, which is used as a bowling green. The stair hall is done in limestone with marble stairways leading upward to the sleeping-rooms and downward to the lower floor consisting of a large loggia and billiard room. From this level one descends steps about eight feet to the esplanade which extends to the lake front, where a retaining wall and balustrade reach across the entire estate, broken only at the centre where a stairway leads down perhaps ten feet to the water level. Thus the house is on even more intimate terms with the lake than is the Mather house.

Unlike the Mather garden one has an unobstructed view of the lake from it through a long pergola leading westward from the main floor of the house; pergola and house stretch almost entirely across the estate. Not only does this pergola provide a charming architectural garden feature in splendid accord with the Italian spirit but it also serves to mark the division line between the garden and esplanade levels. As in the McCormick and Mather houses, one feels that while the spirit may be Italian the houses as a whole and their gardens are truly American, appropriate, and setting forth in the constructive materials a certain degree of local color.



The Alger estate with its garden overlooking the lake



The cheerful, white-paneled, oak-floored living-hall with its comfortable divans is the distinctly homelike place its use demands



More formal and of richer appearance, the dining-room in dark oak is pleasingly appropriate in its wood trim and furnishings



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CONDUCTED BY GEORGE LELAND HUNTER

EUROPEAN HAND-BLOCKED WALL PAPERS

THE paper hangings illustrated in connection with this article represent the best that has been accomplished in patterned wall papers. They range in price from \$1 to \$12 a roll, the English rolls being 12 yards long and 21 inches wide exclusive of the plain edges, the French and German ones 9 yards long and 18½ inches wide, as compared with our American roll length of 8 yards and width of 18 inches. All of the papers illustrated were printed by hand from wooden blocks in France or England or Germany (Alsace), and are sold in one or more shops in every large American city.

In bringing these papers to the attention of the readers of COUNTRY LIFE IN AMERICA, I do not wish to emphasize the hand-blocked part or the European part unduly. Both in America and in Europe excellent papers are printed by machine, and America as well as Europe produces hand-blocked papers of good design and high quality. But as a general principle it may be stated that hand-blocking, after the manner invented in 1688 by Jean Papillon in France, is superior to machine work, and that the finest papers, patterned as well as scenic, are made in Europe, although one American wall-paper manufacturer has had the audacity to carry coals to Newcastle by opening a shop in London. I understand that the shop has been very successful, which is perhaps the best testimonial to the merit of his wares.

The principal points of inferiority of machine to hand-blocked papers are:

The stock of the cheaper machine papers is so rough and full of impurities that it could not receive a clean impression even from hand blocks. It also tears easily and fades quickly.

The colors used in machine printing are necessarily thin, and all are printed at one operation, one on top of another while still wet. In hand blocking, rich colors are available and each color is allowed to dry before the next is

applied. Large, flat flowers and leaves and broad stripes cannot be successfully printed on the machine.

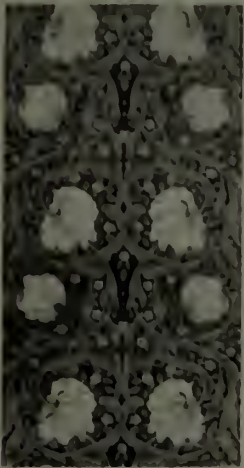
The wooden blocks of the hand printer, with only dots and thin lines in brass, produce a much softer and more interesting impression than the brass and felt machine rollers.

Aside from the difference in artistic merit, it is easy to tell hand-blocked from machine papers by the narrow blank border at each end of the roll, and by the guide marks in the margin that show the printer where to place his blocks.

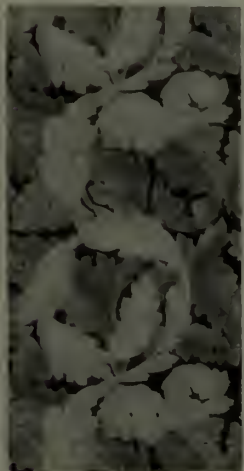
The effect of machine papers is apt to be monotonous, even when variety is secured by combining different rolls that have been planned to go together as frieze and border and filling. This is due to the smallness of the unit of design and the necessary frequency of the repeat. Elaborate and scenic designs are not only better but also cheaper when printed by hand. Such papers as those ancient scenic ones illustrated in COUNTRY LIFE IN AMERICA for November 15, 1911, it would not be possible to print by machine. Even by hand they present enormous difficulties. The famous Cupid and Psyche series designed by Lafette and printed by Dufour in 1814, has twenty-six different widths that together form the complete story, and no less than 1,500 separate blocks. It is interesting to note that this paper is still on the market, having been reprinted from the original blocks, and has been used with splendid effect in American residences.

The Stag Hunt that appeared as a frontispiece in the number of COUNTRY LIFE IN AMERICA mentioned above, and that was from a photograph taken by Mr. Cousins of one side of a room in the old Andrew Safford house, in Washington Square, Salem, Mass., has been identified by Mr. Harry Wearne as one originated by Réveillon, the famous and most important French late eighteenth century manufacturer of wall paper, whose business was ruined by the French Revolution that in 1789 broke out in his factory in the Faubourg Saint-Antoine, the establishment being raided, set on fire, and de-

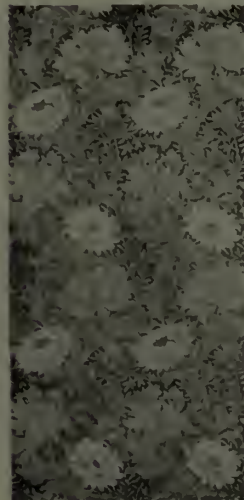
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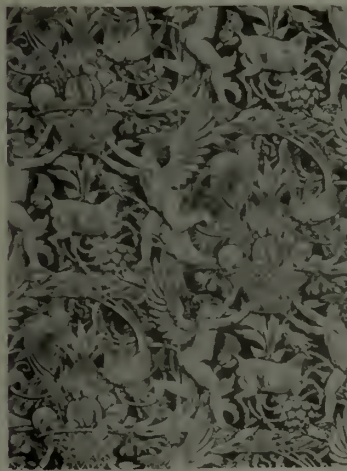
No. 1 The Pimpernel



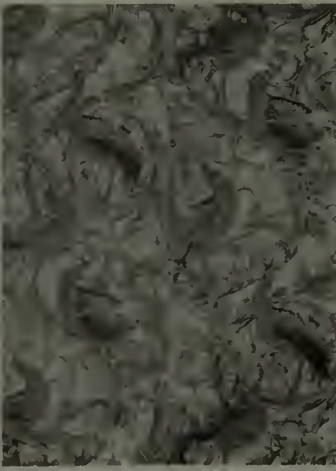
No. 2 The Acanthus Scroll



No. 3 The Chrysanthemum



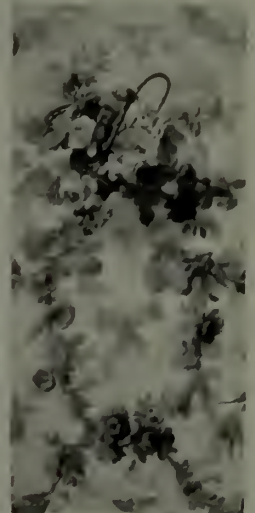
No. 4 The Golden Age



No. 5 The Peacock



No. 6 The Macaw



No. 7 Roses



No. 8 Régence pattern



No. 9 The Golden Pheasant



CONDUCTED BY BRADFORD BURNHAM

### BUILDING YOUR OWN BOAT

I'VE never built a boat. I've never tried to. It takes time, money, and patience in large doses to build a boat. And it's a poor stunt to start an enterprise of this sort and then not put it through. It suggests waning ardor, lack of persistency, faint heartedness and such things. One must be sure his enthusiasm is going to be enough to carry him through and that the first of the many obstacles he's bound to strike is not going to quench it, so that he'll either throw up the whole thing or finish the job with supreme disgust.

But there certainly must be a tremendous satisfaction in owning and running a boat every bit of which is the product of your own mind and hands. The desire comes to every normal boy or man who lives within earshot of the surf's boom. Building should be begun about this time of year, and so here goes for a few pointers which may come in handy, even if they originate from observation rather than first hand experience. For boats a plenty I've seen built by others. They include pretty little fifteen-foot round-bottomed rowboats and dignified thirty-five-foot raised-deck cruisers. Some are wonderful affairs. It would be almost reasonable to suppose that they could be propelled with equal ease forward, sideways, and backward — and downward perhaps best of all. Others are as fine propositions as ever came out of the professional yard. For they have been constructed with equal skill plus the element of personal interest and affectionate ownership.

In the first place, then, the amateur builder must make up his mind that he has a serious undertaking before him, and that he is not going to build a boat without a good supply of time, money and patience. Where the final result is successful, however, these things will be found to count for little in proportion to the real pleasure and satisfaction derived from successfully coping with the problems met with in construction and the enjoyment of watching the hull take shape and grow under your hands, and finally, the joy of crossing the stretches of deep blue in a boat every rivet of which you are familiar with, every whim and peculiarity of which you understand — because you built her yourself and she's doubly yours.

The advent of the "knock-down," "ready-to-build" system has opened an easy road which has been fre-

quently followed with success but which is also fraught with dangers. This system aims to supply the technical training in designing and building which the amateur lacks, leaving to him only such mechanical work as is within the ability of the average man who is handy with tools and can drive a nail and saw a board straight. The amateur under this system may begin with any stage of the construction which he wishes. He may obtain from the "knock-down" people merely the working plans to scale, to be enlarged by the ordinary operations of the shop; he may start with the full-size patterns of all parts on heavy paper, from which the wood may be marked and cut; he may buy the frame of the boat, including the keel, stem, deadwoods, stern-post, and ribs bent to shape; or, finally, he may secure the entire material for the boat, all parts cut to shape, fitted, and marked for re-assembling — the hull is set up complete before shipment — together with rivets, screws, brightwork, finishings, etc., as well as the engine and its fittings.

Now, of course the amateur who resorts to this great aid in the construction of his boat, cannot rightly say that his boat is entirely the product of his own hands, as may the fellow who gets out his own keel from some good old piece of oak. But by this means the hardest, most tedious, and most difficult part of the game is already done before he takes a hand in it, leaving for him the simpler and more congenial work of turning out the finished product. The part of boat-building which requires such machinery as power saws and steaming apparatus, as well as the special skill needed in marking and shaping complicated curves, are entirely eliminated by this method.

But there are dangers. In the first place it is hard to find a design of boat which comes very near your own ideas, which may easily be practical though non-technical, or a design which may be readily adapted to your own ideas. Furthermore, great care should be taken in selecting a design which embodies the correct principles for producing a seaworthy and graceful craft. Strange as it may seem, too many "knock-down" boats are totally unfit for real use and would be utterly failing in the real test. Some appear actually ridiculous to the skilled eye. The false idea of full headroom in a small cruiser's cabin, the attempt to produce altogether too much roominess, and the general seeking to turn out a much more pretentious "yacht" in a pocket edition and at small cost, are responsible for these monstrosities. Other danger points in the "knock-down" proposition are poor stock, too wide spacing between the ribs, and too light construction throughout. With these perils carefully kept in mind and avoided, the amateur may be able to find among the "knock-down" gentlemen something which suits his needs and which will give him a good foundation to begin on. If he is entirely green let him get the advice and assistance of someone who knows in making his selection. In all probability if he has never built a boat before, he will prefer to buy the frame, the planking, and perhaps the decking and ceiling in the knock-down. The rest will give him work and problems enough for a starter.

Remember that no one has yet been able to combine successfully the speed of the *Dixie*, the seaworthiness of a Bermuda racer, and the accommodation of a seashore bungalow, at any price, and when we hear of any such claims, especially at a

(Continued on page 40)



It takes time, money, and patience to build a boat, but it's lots of fun if you love to use tools, and there's a world of satisfaction in the boat when completed



# THE AUTOMOBILE

CONDUCTED BY RYLAND P. MADISON

## RIGHT AND WRONG WASHING

MY FRIEND Williams and his neighbor Jenkins across the road had motor cars delivered to them the same week. Gorman, the agent, sold both, and they were exactly alike. That was eight months ago. Last Sunday I looked at the speedometers on both cars and found that there was a difference of only three hundred miles between them. This in itself did not seem remarkable, except for the striking difference in appearance of the cars. Williams's car had the brilliant lustre of a new product of the shop. Jenkins's car was dull, spotted, and coated with a sort of bluish bloom.

I couldn't understand the difference, but observation the next two days easily solved the problem.

Both men took long drives that Sunday, and, as it rained the night before, the roads were heavy and the cars came back dirty and somewhat mud-spattered. Jenkins drove his car into a shed beside his stable, where it stood on the damp ground in the midst of ammonia fumes from a nearby manure heap until morning. Williams set his man to washing it before it was run into his dry, detached garage. I watched this process of washing, for it was different than the average motor car gets, and then, my curiosity getting the better of me, I went over and got into conversation with the man as he worked.

"Why not put this job off until tomorrow?" was my leading question.

"Do you object to it on Sunday?" was the retort.

"Do I look like that kind of man?" I questioned.

"Can't say that you do," sententiously.

"I'm going to buy a car myself," I explained, dodging a flirt of the hose, "and this one looks as if your advice would be good."

The washer straightened up and began to give me serious consideration. Evidently I was on the trail at last.

"I didn't know whether you were serious, joking or preaching," he said, smiling.

"Have a cigar and give me some pointers," I urged.

"Why not put this job off until tomorrow?" he repeated, accepting a light from me. "To allow mud to dry on a varnished surface is about the worst thing that can happen to it, and this is city mud containing ammonia, the most harmful of all, although mud in lime districts is bad enough. It causes spots or loss

of lustre in spots, and if left on repeatedly will soon ruin all the gloss and life of the varnish coat."

"But how?" I persisted.

"The mud draws the oil out of the varnish," he explained, "and if this is allowed to go on for any length of time, the car gets to looking badly, and there is nothing to do but let the varnish dry, rub it over with water and pumice stone flouer and finally revarnish it."

"And the way to keep a car looking good is what?" I asked.

"Keep it clean," was the reply. "Wash it as often as it gets dirty, but do it right. This is particularly true after a car has been out in a rain storm, for if allowed to dry without attention, every drop of water as it evaporates will leave a deposit of lime which leaves a white spot. As much harm, though, is done by improper washing as by not washing enough. Many people use warm water which softens the varnish. Cool water, applied in a gently flowing stream from a hose, hardens it, gradually soaking up the mud so it is easily removed with a soft sponge. A forceful stream of water knocks off the mud and carries along pieces of varnish, too. When the mud has been softened and loosened, a soft sponge with plenty of water can be used, followed by rinsing with the hose and drying with a clean chamois."

"You don't seem to use much strength on that chamois," I commented.

"Why should I?" he asked. "All I want is

to dry the surface. A car is not like a brass lamp that can be polished every day and still retain its gloss. The weight of the chamois is enough pressure, and absolute dryness is not necessary. Any slight dampness that may remain when the chamois is kept well wrung out will quickly evaporate and do no harm. New chamois skin should be thoroughly cleaned with a mild soap and as thoroughly rinsed in hot water before use."

"I notice you use no soap on the car," I remarked, looking about.

"Well I should say not," said the washer. "It does more harm than good, and with frequent washing in clean, cold water it is unnecessary. Soaps contain acids or alkalis, either of which is detrimental to the oil in varnishes, and spotting or general loss of lustre is the result."

"Do you mean that under no circumstances would you use soap?"

"If a car has been unavoidably neglected and has become very greasy and dirty, a little weak castile soap suds might be used. Every particle of it must be rinsed off, however, with plenty of clean cold water."

"Doesn't a car get carelessly washed in a garage, now and then?" I inquired.

"To be sure, and the best remedy, in case spots begin to appear afterward, is to wash it more frequently yourself with cold water, dry it thoroughly and let it stand in a good circulation of air. Hot sun, however, fades the colors and destroys and deadens the finish."

"A friend of mine uses furniture polish to brighten his car," I suggested.

"I certainly shouldn't approve of it," said the washer. "Unless it is thoroughly rubbed off, the oil in it collects dust from the road and makes matters worse. Once you begin this sort of treatment you must keep it up and it's lots of work without a distinct gain, for, unlike your piano, for instance, the polish is affected by frequent washing with water."

"I notice that the engine bonnet looks almost as bright as the rest of the car, and shows no sign of needing paint before the body," I observed.

"Yes it does," the man smiled in approval of my observation. "The reason is that I never use soap on it and am careful never to wash it at all until it is cool."

"How do you keep the leather upholstery in condition?" I asked, almost fearing that I was imposing upon the fellow's good nature.

"Well, I never turn the hose on it, for one thing," he answered. "That would harden the leather and even-



Wash your car with a gently flowing stream of cool water. A forceful stream knocks off the mud and carries along pieces of varnish too

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CONDUCTED BY HENRY MAXWELL

AN ATTRACTIVE COTTAGE

**T**HERE is a pretty little cottage at Wodenethe, in the English style, made of brick, and roofed with shingles. The swinging windows, with their diamond panes, have much to do with the charm of the building, but the setting is very fine. For the cottage appears at the end of a vista, and is dimly seen between gigantic trees. Thus it makes the vista seem remarkably long for a twenty-acre place.

The coziness of the cottage is chiefly due to the framework of trees. At the top of the photograph are branches of some buckthorns which have attained a height of twenty feet and are a pretty sight in midsummer when laden with roundish clusters of small black berries. The camera was placed under a hedge of beech, perhaps twelve feet high, in which an opening was cut so as to reveal the cottage. On the cottage wall grows the trumpet creeper, and the arborvitæ at the right serves as an accent mark, as the composition would be a little tame without a columnar tree.

A ROGUE RIVER GARDEN

**F**ROM the door way of our living-room we look down over our natural park and garden to the Rogue River. The house is 52 feet above the river, on the edge of a bank which is broken by natural terraces.

On the Pacific Coast we can grow many of the choicest European plants that will never grow in the East — for example, Ceanothus in deep blue, mauve lavender, snow white, and cream. We have a wild rose which has a much larger flower than *Rosa Wichuraiana rubra*, growing about a pine tree on the lower bank.

I have transplanted into the garden proper, on the orchard side of the house, Ceanothus, syringa or mock orange, rose colored spirea, deer tongue, buttercups, goldenrod, lavender-pink asters, white valerian, Washington lilies, small red mountain lilies, and an unknown flower of true



A modest cottage or tool house at Wodenethe, Fishkill, N. Y. Buckthorn overhead; arborvitæ at corner of house; trumpet creeper on walls; hemlock hedge at right

blue like the Dropmore Anchusa, a half inch across with a little row of white pearls around the tiny stamens. Also crimson shooting stars and Indian paint brush.

The only things that "died on me," as the children say, were two azaleas, and that was my own fault, as I was too greedy to prune them.

There are choke-cherries with fragrant tassels, ninebark, western dogwood, cascara, shadbush, pipstem, and chapparal, all white and cream, and all fragrant.

Our most beautiful flowering shrub is the manzanita, with its clusters of pink bells, ruddy stems, and clean, oval, mignonette-green leaves. Below them are ferns, mahonia, hepatica, saxifrage, and anemones.

The madrone has tassels of white in spring and red berries in winter. It is an evergreen, soft tinted and waxy, and the stems or trunks shed their bark. These trees are more than forty feet high.

Even the maples make a great show, blossoming before the leaves come out.

Along the top of the bank are groups of a delightful perennial dwarf sunflower.

There are flocks of white lupins, yellow violets, wild geranium, and red and yellow columbines. Hundreds of mock orange bushes and wild roses bloom together. The air is fragrant with perfume, and musical with the orchestration of the rough, wild water of the Rogue River.

MRS. JOHN RAWLEY.

AN IMPORTANT NEW BITTERSWEET

**H**ERE is a new Celastrus which you probably have not seen unless you have been to the Arnold Arboretum. It is one of the many good things that Professor Sargent has brought from the Far East. This species (*C. flagellaris*) might be called the Korean bittersweet. It is a very strong grower, producing a dense screen on the trellis. Its leaves are larger than those of the American and Japanese (*scandens* and *orbiculatus*), and are even more beautiful. They are thick and bright, being rough, glossy, and fairly iridescent when closely examined, even more so than the October leaves of the common honeysuckle. The fruit, like that of *orbiculatus*, is mostly hidden by the foliage.

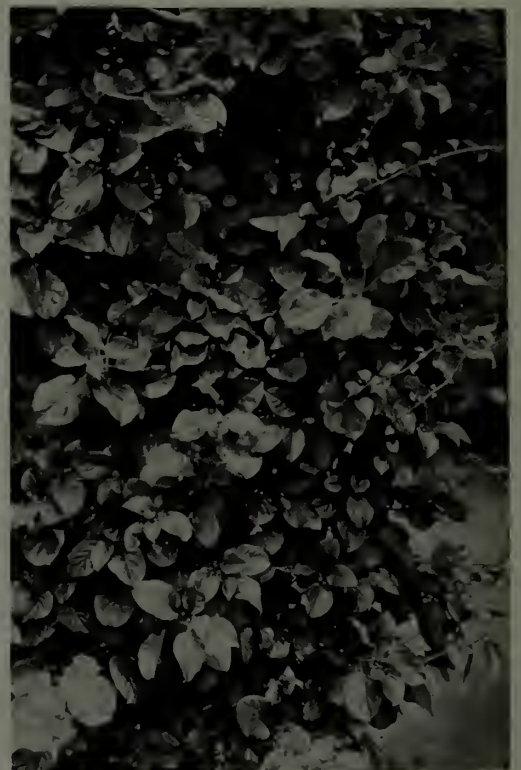
A. G. ELDRIDGE

UNCLE HENRY SAYS

**T**HE real reason why Englishmen think the cedar of Lebanon is the most beautiful tree in the world is because of the shadows made by the distant tiers of horizontal

branches. You can get the same shadows from a white pine 40 to 50 feet high. White pines 45 feet high have been successfully moved, and give at once a type of beauty comparable to the famous cedars of Lebanon at Warwick Castle, which were brought home by returned crusaders.

The four plants which Long Island farmers used to hate the most are now becoming the best

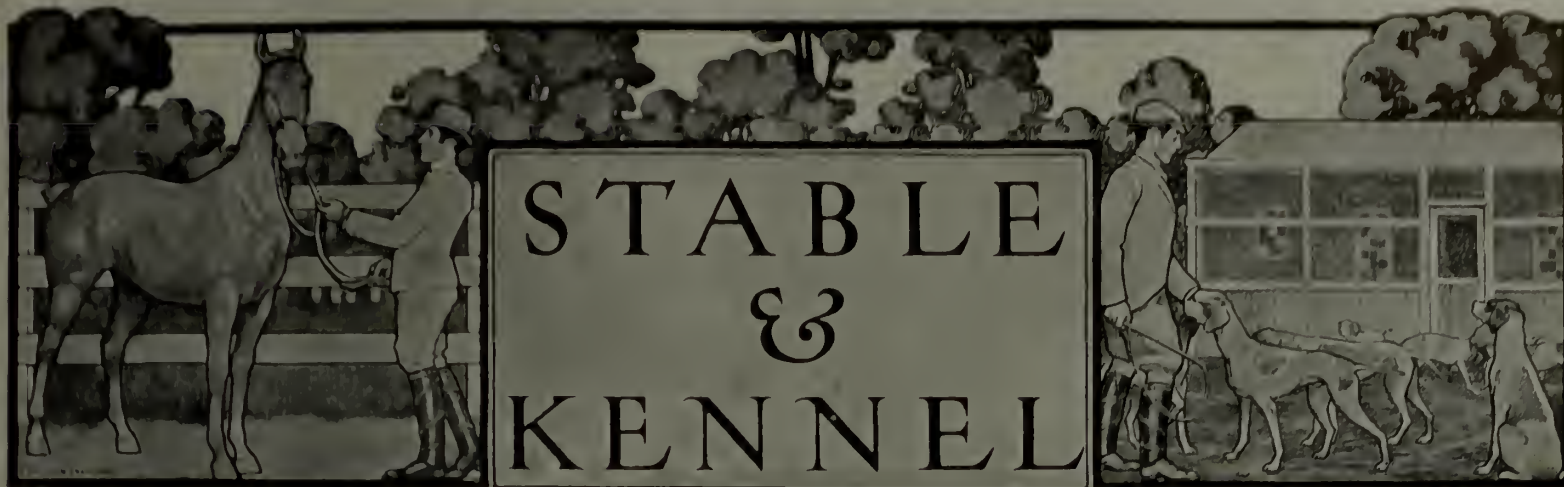


The new Korean bittersweet, showing its superb foliage, which is clearly better than that of the American or Japanese varieties

beloved of country gentlemen, because they will solve tough landscape planting problems on sand, gravel, etc., and you can't kill them. They are red cedar, bayberry, wild cherry, and sumac. Are you blind? Or can you see the unique beauty of them and how to fill your place with local color?

Millionaires are now waking up to the beauty of bayberry or candleberry, which makes glorious domes, like boxwood, bronzes beautifully in the autumn, holds its foliage through November, and is fragrant the year round. To propagate it take up the small suckers on the outside of a colony, cut them back to within three inches of the ground, and plant in bunches of a dozen.

"Evergreens are too slow," some people say. And yet the famous Douglas spruce at Dropmore grew sixty-two feet in twenty-one years.



CONDUCTED BY R. A. STURDEVANT

## THE WELSH PONY

WHILE the Welsh pony is much better known in America than was the case a few years ago, the question is still often asked "What are Welsh ponies and cobs." The true Welsh mountain pony may well be described as a diminutive horse of the hackney type. Ponies range in height from eleven to thirteen hands, and the cobs from thirteen to fourteen hands. In form they are compact and roundly finished, with remarkable development of bone and muscle; they are very hardy in constitution, with wonderful strength and endurance; possessing great energy and yet particularly docile in temperament. They are full made, stockily built, with beautiful head and shoulders, legs of iron, and feet of flint.

Of the exact origin of the breed but little is known which we may accept as authentic. There is no doubt however, that it has been much improved by Arab and thoroughbred crosses. During the past fifty years the breed has been still further improved by the introduction of a considerable number of small hackney stallions of good quality among the best studs of Wales, with the result that the type of Welsh pony of to-day shows much more of the hackney characteristic than was in evidence a generation ago. On the other hand, Welsh mares of approved type have been used in producing many of the best hackney ponies. The two breeds have been crossed and inter-bred quite generally, to the betterment of both.

The Welsh ponies are noted for soundness of wind and limb, as well as for vigor and hardy constitutions, which traits are attributable to their native environment. Bred and reared in the mountains, galloping down the steep sides, jumping ravines and obstacles, as they are compelled to do, has served to develop the above traits in a high degree. Natural blemishes are rarely found in them. A distinguishing feature of true Welsh ponies is that they are

free from the heavy coat of hair and shaggy appearance of other breeds of small ponies.

An authority on ponies has said of this breed: "There is a mistaken idea among some people that a dull, sleepy pony or horse is a safer one for children's and ladies' use than a spirited one—that the latter are only fit for experts. This egregious mistake comes from confusing vim and spirit with viciousness. Dull, sleepy ponies and horses are often more stubborn and harder to control in an emergency than intelligent animals possessed of more energy. In intelligence and submission, when properly handled, none of the horse kind excels, and very few equals, the true Welsh pony; none is safer to trust with children or ladies. With kind treatment they soon come under control and show much affection, and seem to have a special affection for children." This breeder's method of handling is to commence when the foal is only a few weeks old, picking it up and handling it about as one would a dog, controlling it by gentle treatment: Managed in this way a pony will never develop viciousness.

There is a constantly increasing demand for a class of pony larger than Shetlands, which the Welsh pony meets. As the child "graduates" from the Shetland stage, the Welsh pony enters and fills the need for a pony with more size, style, and speed than the Shetland. A pair of well matched Welsh ponies hitched to a properly appointed vehicle presents one of the most attractive sights imaginable; and such an outfit combines utility with beauty, as these ponies are capable of covering the road at a rapid pace. As saddle ponies they have no equal, and they are up to carrying a lot of weight.

It is unquestionably true that many ponies larger than Shetlands have been sold as "Welsh," whereas they had not a drop of Welsh blood in their veins. Such claims will be less frequent now that a record association for the breed has been established in the United States. In Wales there is a society for recording Welsh ponies

and cobs, and this society divides the ponies into four groups according to height. The smaller ones are known as the Welsh mountain pony, height not to exceed 12½ hands, the other classes ranging up to 15½ hands. The latter are used as cavalry mounts, and are the favorite road horse of their native country, where they pull heavy carts over the roads at a remarkable rate of speed.

In producing high-class polo ponies, Welsh blood has been of great value, owing to the general activity, endurance, and sure-footedness of the breed. Some American breeders are paying special attention to breeding the larger type of Welsh ponies for use on the polo field. High-class polo ponies command very high prices, and breeding them offers an inviting field.

In cross-breeding the hackney and Welsh ponies one should pay special attention to size and gait. Ponies of this breeding will command high prices only when well gaited and well mannered, and up to the present time but few men in this country are producing this type. Such ponies however, are in great demand, and in some instances very high prices are obtained. Only a few weeks ago a cross-bred hackney-Welsh mare sold for \$1,500, and prices ranging from \$350 to \$800 are not uncommon.

Good Welsh ponies of proper type and breeding can be bought at prices ranging from \$100 to \$200 each, and at such prices they offer a splendid inducement as an investment for breeding purposes. It is estimated that one pony will consume about the same amount of feed as three sheep. In other words, breeding ponies may be kept in good condition at from \$9 to \$12 a year each. The produce will command good prices and are ready for use at two years of age. While there are a number of pony breeding farms where several hundred are maintained, it is a noticeable fact that these farms are constantly adding to their breeding stock. Prices are advancing each year and danger of over-production in this line seems to be far remote.



For saddle purposes the Welsh pony is unexcelled. Foregate Polly, 429. W. S. B.

Welsh ponies are proud and high-stepping, but withal perfectly safe for children

It is everywhere conceded that the American-bred Shetland is a better pony in all respects than the imported Shetland, and I believe this is also true of the Welsh pony. At all events for breeding purposes one will be less likely to meet with disappointment by selecting foundation stock which was bred in this country, or at least has been in this country a sufficient length of time to have become thoroughly acclimated.

H. T. MORGAN.

### A NATURALIZED TERRIER

OF AN old family, unjustly cursed with a bad name, winning success in spite of adverse circumstances, only to be exiled by law from his native land, forced to emigrate to the New World and there to begin again his fight for popular recognition — this has been the lot of the Bull Terrier. One is quite tempted to philosophize and to draw nice copy-book maxims from his story, but he is well able to speak for himself.

"Of an old family" — not that he came over with William the Conqueror, but he has a long pedigree for a terrier, most of whom, despite their bewildering numbers and well defined types, have been manufactured within the past hundred years. Some clever person has said that the history of any breed of dogs may be started by saying "The origin of the — is shrouded in mystery." It is certainly a very useful working formula for canine historians. Nine times out of ten it will supply ready-made that troublesome opening sentence, for usually our knowledge of dog origins is a supposition backed up by a guess. The Bull Terrier, however, is one of the tenth times.

It is, of course, impossible to say that on May 16, 1776, John Smith bred his Manchester Terrier Nellie to Grip, a brindle and white Bulldog owned by Tom Jones, and the offspring were the original Bull Terriers. We can say, however, that in the last quarter of the eighteenth century this kind of breeding was done. We are not sure whether such cross mating was designed, or whether the pups from a *mésalliance* were recognized by their owner as "likely youngsters." The cross-bred dogs — however they were first obtained — "took on," and by 1800 began to attract attention to themselves.

They were possessed of certain attractions. As Pierce Egan, a sporting authority of the time (1822) said, "they flashed more size" than the terriers, and their "pleasant, airy temper without losing any of its fierceness" was an improvement over the Bulldog. I am a little afraid Mr. Egan waxed so enthusiastic over their looks and disposition that he forgot their deeds. Their chiefest attractions were their ability to bait a bear or a badger better than

clung to the dog to his detriment when bull baiting and rat killing were no longer fashionable pastimes. The staid Victorian Era held up its hands in holy horror at the barbarous doings of the swaggering Georgian Days. Rat killing and badger drawing were things not to be mentioned in polite society, and the poor Bull Terrier was exiled to stable and "pub." About this time, however, the dog show was developed, and it wrought great changes in most dogs, the Bull Terrier among them.

The Bull Terrier of 1800-1850 was vastly different from the Bull Terrier of now. He was thick-set; his head was blocky; his eyes were large and round; his tail might be any old style from the short, twisted screw of a Bulldog to the Foxhound's teapot handle; his coat was splotted with black, brown, tan, or brindle. Think of a big Boston Terrier with a weak muzzle, irregular marks, and a miscellaneous tail; and you have a rough idea of the early Bull Terrier.

The early popularity of the Bull and Terrier dog led to breeding experiments, made to improve his looks, and later the dog shows furnished the incentive and reward for this work. Chief among the experimenters was James Hinks of Birmingham, and the present day dog is largely a development of his ideals. Just how the old, cloddy, marked dog was transformed into the graceful white terrier of now is an unexplained miracle. The breeders used the material at hand, and we know that several white English Terriers, a white coated edition of the black and tan Man-

dog show had made a new Bull Terrier, a much better looking dog and one with all the virtues and none of the vices that tradition associated with the breed. Instead of a vicious, bad tempered brute, a terror to dogs and faithless to man, they found a clean, game, good-natured



Ch. Edgecote Peer, considered the best American-bred Bull Terrier ever shown

dog, an ideal pal and guardian. Slowly the old prejudice died, and the Bull Terrier became more and more popular. Then came the anti-cropping edict.

Since the passage of the law in Great Britain that forbids the cropping of a dog's ears, the breed has fallen from favor. The uncropped ears spoil the clever, varminty expression, and neither fanciers nor the public like the changed looks. Slowly but surely interest is waning, and the days of the breed in England seem to be numbered. These would indeed be hard times for the Bull Terrier had he not been naturalized in America. For thirty years, he has been making friends over here, and when doomed in his native land, he was already firmly enough established in his adopted country to insure him against the fate of the dodo.

He has, however, had much the same kind of a hard row to hoe in America. We never had bull baiting — possibly there were too many Puritans, or maybe too few bulls — but we have had the equally odious "sport" of dog fighting. The dogs of the fighting pit are coarse, doubtfully bred, square headed, marked

animals; part Bull Terrier, part mongrel. Because of their uncertainty in both type and breeding, the American Kennel Club have refused, and rightly so, to recognize them as a breed. They rejoice in an unsavory reputation; and their bad name has been tacked on the real Bull Terrier, for most people habitually confuse the native, pit mongrel with the imported through-bred. They are two very different dogs.

The public is beginning to learn, however, that the real Bull Terrier is far from the savage cur beloved of Bill Sykes, who was "a sort of Bull Terrier." They find him clever beyond the average, faithful, good tempered, strong, yet kind; and now that Dame Fashion has begun to take him out walking with her, it seems probable that our naturalized terrier will take a place among us more befitting his old family and his own excellencies.

WILLIAMS HAYNES.

### WORMS

THE one certain thing in dogdom is that puppies invariably have worms. As soon as you see the symptoms, which begin with whining cries of pain and distension of the abdomen, the puppy should have immediate attention. Diet him lightly on milk the day before, omitting entirely the evening meal. Next morning, while the stomach is empty, administer a tablet composed of santonin and calomel, each one grain. Two or three hours afterward give a tablespoonful of castor oil, and at noon feed lightly on warm broth. Repeat this treatment in three days.

R. A. S.



This snapshot of Master Frey and his prize-winning dog, Attleboro Crusader, shows that the Bull Terrier is not the brute of fiction

chester Terrier, inhabited Hinks's kennels. Whippets and Greyhounds too probably helped make a thick-set dog lithe, and the straight, tapering tail is possibly the legacy of some Pointer ancestors.

All this may be slightly suggestive of cur; but one must remember that it is some fifteen generations back in the Bull Terrier's pedigree before we come to any of this outside blood, and fifteen generations in a man would be back to days of Richard Coeur de Lion. Skilful selection of the proper stock will produce a strain of animals breeding true to type in six or seven generations, and the ability to breed to a fixed type is the final test of a thoroughbred. With the original Bull and Terrier cross made a century and a third ago — some thirty dog generations — the Bull Terrier, with all his crosses, has a long family history.

About 1870 the Bull Terrier began to lay aside his colored coat and to become the type of dog we know. To-day he stands one of the most attractive breeds. Nobody can forget his white coat with its silvery sheen. His wedge-shaped skull, topped with neat, erect ears, is distinctive. His dark, almond eyes give him a fascinating, wicked-wise expression. Straight limbed, clean cut, short of back, with muscles that glide under his close coat, he is all a thoroughbred. Any one who appreciates the beauty of perfect symmetry and strength falls in love with him at first sight.

Gradually England awoke to the fact that the



Ch. Bloomsburg Ziska, the acknowledged best English Bull Terrier bitch showing. Note the uncropped ears

their Bulldog cousins, and to kill more rats in less minutes than any straight-bred terrier. At that time, these "sporting" activities made them many friends.

But times change, and this same reputation

# The Little Furniture That Gives Charm to the Home



\$15 and \$18

"IN GOING through the Palace at Versailles, it did not occur to me that it had been the home of any one until I reached Marie Antoinette's apartment and saw her little sewing table."

The woman who was thus impressed by her visit to that exquisite Palace possesses the delightful spirit of the home—she knows that a cottage or a castle may be made a home by the intermingling of the *little* furniture that becomes a part of the daily life.

As Autumn is the time for giving new life to the home, we have assembled an especially pleasing collection of *little* furniture for those that simply need to add a few things. And, of course, this furniture should not be overlooked by those who are furnishing a home.

To give an idea of the character of this furniture and of our conservative prices, we illustrate a few models. However, the collection affords tremendous selection.

The *Colonial Hall Table* is such an excellent reproduction of the antique that one will be delighted to possess it, regardless that it makes a practical card table, as well as a charming ornament. Mahogany, \$49.50.



\$49.50

The *Colonial Desk* is one of those substantial and roomy affairs that does not require much space—being only 33 inches long. Mahogany, \$54.



\$54

The *Colonial Sewing Table* is compact, as it has a drop leaf—and even its top drawer has a sliding compartment tray. In circassian walnut, \$18; mahogany, \$15.

All of our collections of furniture are now quite complete for the Autumn—they have come from the celebrated makers of Europe and America, and include designs of all Periods.

Among the noteworthy suites—

A Jacobean Dining-room suite of old oak, \$2250.

A German Empire Library suite of mahogany inlaid with brass, \$6000.

An Empire Library suite—copy of one in the *Chambre des Deputes*, Paris—of mahogany inlaid with brass, \$5500.

And, by way of contrast—American Library suites for as little as \$75.

Our *Bureau of Interior Decoration* will gladly submit plans and estimates for the complete or partial furnishing and decorating of your home—whether an apartment, city house or palatial country home.



\$28

\$18

## Afternoon Tea

has become such an institution in the social life of today that a home without a tea service is quite impossible.

A *Tea Wagon* simplifies the serving of this little five o'clock collation—and gives such atmosphere to the occasion that a hostess feels the need of one.

The *Tea Wagon* illustrated is of Sheraton style—mahogany inlaid with satinwood; with removable tray, \$28.

The *Muffin Stand* is of remarkable assistance, too. Model illustrated has 9 plate holders; mahogany inlaid with satinwood, \$18.

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¶ Makes its strongest appeal to people of taste and refinement. A large business of supplying the purchaser direct has been built upon the simple, artistic lines of our designs, solid construction, and a variety of custom finishes, meeting every possible requirement of discriminating people.

¶ A large assortment of Furniture in the natural wood or stained to suit the individual taste. Your choice of any of several finishes to harmonize with the color scheme of your rooms.



¶ Send for set of illustrations, and color chart mailed upon request.

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Manufacturers  
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:: FURNITURE AND DECORATIONS ::  
Fifth Avenue and 47th St., New York



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GRASS FURNITURE

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Ask Your Dealer

New Booklet No. 207 Upon Request

**Prairie Grass Furniture Co.**  
Sole Manufacturers

Glendale Long Island New York

## EUROPEAN HAND-BLOCKED WALL PAPERS

(Continued from page 31)

stroyed by the mob. The Stag Hunt took thirty-one widths of paper to form one complete set or collection.

And now for the papers shown with this article. Nos. 1, 2, and 3 are English papers designed by William Morris, who did more than any other man of the nineteenth century to raise the standards of industrial art, and not only designed but—what was of far greater importance and significance—actually made and superintended the making of wall papers, printed draperies, real tapestries of the old Gothic type, and furniture. He knew what so many forget or never learn, that in the creation of masterpieces of art the hand is more important than the head, and the execution than the design. Pattern No. 1 is called the Pimpernel (the pimpernel being not the large but the small flower), No. 2 the Acanthus Scroll, No. 3 the Chrysanthemum.

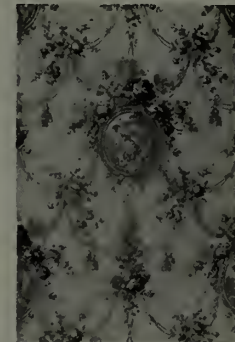


No. 10. The Hunts of Maximilian, from the famous tapestry of Van Orley

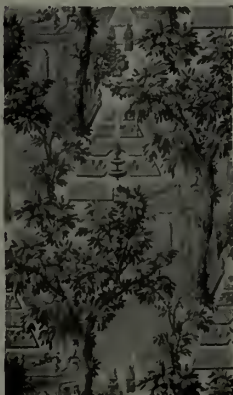
Pattern No. 7 is the best "roses" paper in the world. The bold simplicity of the lines combined with the exquisitely soft delicacy of the colorings appeal to him who sees it, quite in the same way as a wonderful painting, a marvelous tapestry, or a perfect statue in marble. This paper was designed by Muller about 1850 and is made in Paris. It takes 185 blocks to print from and the widths are twenty-six instead of the regular eighteen and one half inches wide.

Patterns No. 4, 5, and 6, shown two widths together, were designed by Walter Crane and printed by the firm who did and still do all the Morris papers. No. 4 is called the Golden Age, No. 5 the Peacock, No. 6 the Macaw. I regard the Golden Age as a masterpiece. It comes in self tones and also in many colorings, as do most of the papers here illustrated. Some of these patterns can also be had on cretonne.

Nos. 8, 9, 10, 11, and 12 come from Alsace from a factory that has been established for more than a century, and consequently in character class properly with French rather than with German papers. No. 8 is a Régence pattern originated in the early part of the nineteenth century. No. 9, the Golden Pheasant, was originated only three years ago. However, the form in which it now appears is not the original one that was rejected after the blocks had been cut and samples printed. I saw the original cartoon. It was evident to me, after I had been told, that when assembled on the wall the tails of the birds would mark too strongly. This and other defects caused the maker to destroy the paper that had been printed and the blocks that had been made, and after an interval of twelve months, to bring out an entirely new and much modified set of blocks from which was



No. 11. Reproduction from a Louis XVI toile de Touy



No. 12. The Dutch Garden, a modern paper

printed the paper before us. The result is worthy of the effort.

No. 10 is a paper taken from one of the famous

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Anchor Post fence posts are braced with driven anchors. No digging post holes.





ONE of the interesting signs of the furniture times is the catholicity of spirit shown in the best designing. Many centuries and many countries are represented; from England, Spain, France, Holland and Flanders, the discriminating manufacturer makes his choice, bringing to bear upon the subject the finest modern methods. The actual science of furniture making has advanced tremendously since the old furniture designers were creating motifs for future generations. Perhaps this point cannot be better demonstrated than in the charming interior, illustrated, which is furnished exclusively with "Flanders" from the Berkey & Gay workshops; modern in its execution and technique, but harking back to the charm and vitality of the old Flemish work. The expressive term "Flanders" is a creation of Berkey & Gay as well as the distinctive line itself.

A living room above everything should be livable. How perfectly the Flanders style embodies this quality. A living room should be restful, cheerful and comfortable. How perfectly "Flanders" contributes these characteristics. Variety is also expressed in a most attractive manner. Too often this feature is lacking in the American home. In the fear of losing harmony we are apt to secure merely monotony. The living room of our illustration shows an underlying unity, combined with a most refreshing variety.

## TRAVELOGUES IN FURNITURE

### A LIVING ROOM IN FLANDERS

This blending is particularly fitting in a room used by different members of a family, with the inevitable difference in taste. One person may prefer angles, another curves; smooth surfaces or rough, while there may be a division of opinion as to the relative merits of leather and cane.

The "Flanders" living room shows curves and angles, and while not rough hewn, presents a beautiful variety of textures, textures in wood, which are quite as important as texture in fabrics. Flemish themes are delightfully worked out in the various chairs and tables, showing skillful adaptations of those sturdy old motifs which for more than a century gave Flemish designers a unique position. Flanders, though small, was powerful, and being commercially in touch with Spain, England and the Orient, and closely allied at various times with France and Holland, could place within reach of her craftsmen the best that came to her doors.

Cane furniture reached a degree of beauty unknown in the surrounding countries. English and French designers bor-

rowed freely from Flanders and in the present cane revival many Flemish and English motifs are blended.

It is pleasant, indeed, in the twentieth century to find modern pieces which so finely express the homelike, substantial beauty of the sixteenth and seventeenth centuries and give honored place to oak, our characteristic American Wood.

The architectural treatment of the room makes a consistent and desirable background for the oak and cane. Walls, floor, ceiling and fireplace, produce an atmosphere of dignity and comfort which is further emphasized by the furniture. While such a background is extremely desirable, the purchase of "Flanders" should not be deferred solely because a beamed ceiling, big fireplace and wainscoted walls are unattainable. The average living-room would be greatly improved by such pieces.

#### NOTE

The Berkey and Gay Furniture Company publishes a series of "Travelogues in Furniture," short treatises on several different periods on which they specialize. The entire series showing room suggestions are sent on receipt of 10 cents in U. S. stamps.

"Character in Furniture" is the title of a de luxe book, published also by the same Company. It is not a catalogue, but a book telling the romance and history of period furniture in a most interesting way. It is illustrated from original oil paintings by René Vincent, the famous French artist. It is an expensive publication, but will be sent on request, accompanied by fifteen two cent U. S. stamps. The edition is limited. It will be best to write for it today. Address Berkey & Gay Furniture Company, 180 Monroe Ave., Grand Rapids, Mich.

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## "If It's an Inter-State--You've Bought the Best"

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So simple is the Inter-State of control that you scarcely realize the big, long stroke, en bloc motor, throbbing its tremendous power through multiple disc cork-insert clutch and efficient transmission.

You should send today for literature, describing the remarkable value of the Inter-State

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Full equipment of top, wind-shield, speedometer

**Model 40  
\$2400**



You only know that when you press a button, the Inter-State moves into action without exertion or discomfort on your part.

You only know that your car presents the suggestion of exquisite grace as the steady, silent glide carries you up hill and down dale—through town and country—at a thousand different speeds.

You only know that you have paid \$2400 for a car that offers you a greater value—dollar for dollar—than any other car regardless of price.

Truly the Inter-State stands alone as the car of distinctive difference—the car that woman drives in equal skill with man.

tapestries designed in the sixteenth century by Van Orley, the Belles Chasses de Guise, also called the Hunts of Maximilian. No. 11 was reproduced from a Louis XVI toile de Jouy, Jouy being a little town near Paris where were made the most famous linen drapery prints of the eighteenth century. The ground of No. 11 is faintly but charmingly damassé.

No. 12 is a modern paper, the Dutch Garden, designed by the famous Frenchman, Arthur Martin, whose collection of tapestries, furniture, wall paper, etc., is worth crossing the Atlantic to see, and whose services to French makers of damasks, brocades, and other woven stuffs are noteworthy. This Dutch Garden appeals to me most when printed in gray.

### THE AUTOMOBILE

(Continued from page 33)

tually crack it. A sponge and a cake of castile soap are the materials to use, and a piece of waste serves for the final cleaning."

"Your garage looks dry," I observed after looking at its splendid appointments.

"It is, and by taking steam from the house we keep it dry in winter and somewhat above a freezing temperature always. This prevents a bluish bloom settling over the varnish on the car body and prevents the accumulation of frost on it. Frost also causes bloom and often cracking of the varnish as the frost sweats out."

"Jenkins, across the road, doesn't seem to be so particular about storing his car," I suggested furtively.

"Nor about anything else," the man replied, cranking up to drive into the garage. "He'll wash his car in the morning. Watch him."

I did. His method included most of the things Williams's man avoided. It was a quick, hasty wash with warm water and soap, preceded and followed by a blast of cold water from the hose, and no wiping with the chamois at all. I asked him how often he washed his car.

"Whenever I can't stand the looks of it any longer," he replied.

Then I knew why his car needed refinishing at the end of six months. PHIL. M. RILEY.

### A REMEDY FOR CLUTCH TROUBLES

USING too heavy an oil is often the cause of difficulty with multiple disc clutches and the unknowing motorist sometimes ascribes it to the clutches themselves. Adhesion between the plates is the result. When the proper oil cannot be secured, mixing a heavier oil with kerosene in about equal parts will answer. Continued "grabbing" after this remedy has been tried denotes that the plates have become considerably carbonized or roughened. Cleaning and polishing of the clutch is then essential. In fact, such clutches should frequently be dismantled for that purpose. After cleaning with kerosene to cut the oil, and then with gasolene, being careful also to drain all lubricant and sediment from the case, new oil of a light grade may be supplied. RYLAND P. MADISON.

### POWER YACHTING

(Continued from page 32)

cost of \$500 or \$1,000 we should regard them with suspicion—and smiles. The young builder is of course eager to have a larger boat than he can afford—and the same is true with many a seasoned veteran—and the "ready-to-build" man is all too ready to supply him with the impossible.

Having perhaps by some miraculous chance found a design which is normal and practical and which at the same time suits you, the next thing to take a careful squint at is the method of construction employed and the quality of the stock used. In many "knock-down" propositions the spacing between the ribs is too wide or the ribs are too light. In others the ribs are not mortised into the keel. Other points of weakness exist in still others. Every experienced motor boatman knows that the boat is better for the fewer number of parts it has in the long members of the hull. The keel, clamps, stringers, and planksheers should be in long lengths, while the scarfs, where two pieces overlap, should be of good length, too. But the length of the planking is of even greater importance, perhaps, and this is one of the first things the skilled eye will search out in the boat under consideration. Of course, it is a difficult matter to get planking



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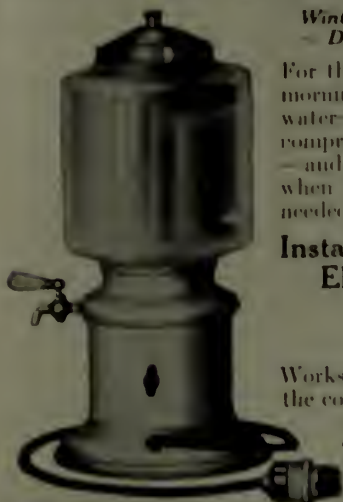
Knitted to shape by *hand* methods—of fine long-fibre worsted—the Blauvelt Sweater fits perfectly at every point. Fashioned true to size—practically invisible seams—hand-made buttonholes—re-inforced pockets—fully five seasons of style, warmth and service in every garment.

The new Raglan Shoulder (illustrated), gives a fine shapely effect. The Blauvelt French Stitch is acknowledged to be the handsomest and most elastic stitch known in knitted wear.

For motoring, golf, fishing, shooting, camping, and all other red-blood sports, wear the smart, full-fashioned Blauvelt Sweater. For men and women, in all stitches and colors. At your dealers or write to us and we will see you are supplied. Write for Handsome Style Book

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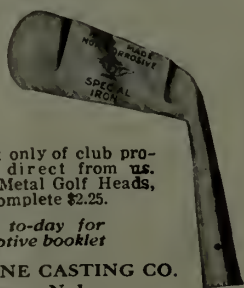
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WRITE FOR ILLUSTRATED CATALOGUE  
THE OHIO ELECTRIC CAR CO. Dept. F, Toledo, O.

The Reader's Service will give expert advice about automobiles

for a boat of any size in single lengths, but there should be just as few butts or joints as possible and these should be as far removed from one another as they can be. The butts of adjoining planks should never be placed on the same frame or even on adjoining frames.

In days gone by a vessel constructed entirely of oak was not infrequently seen. Oak is the great staple wood for ship building and we still see every once in a while a veteran built entirely of it — her timbers so well seasoned and hardened that they would take the heart out of the keenest ax. Good white oak is by all odds the best kind of wood for the framework of your motor boat. In order to get a true curved grain, however, the stem and stern knees are commonly made of hackmatack. Sometimes rock elm is used for the frame. But oak is too heavy for other parts of the boat beside the backbone, and especially for the planking. Cedar is undoubtedly the best wood for planking, though cypress is used nearly as generally and has the advantage of being easier to obtain in long lengths. It does not, however, resist absorption to water quite as well as cedar. Pine is heavier, less tenacious and more liable to rot. Mahogany is, of course often used for the planking of small boats, particularly yacht tenders.

If you decide to ignore the sometimes unreliable helping hand of the "knock-down" method and prefer to build the entire boat yourself, you must by all means begin with something unpretentious and comparatively simple, even if you have to pocket your pride and do not use up all



It is far more satisfying in every way to build a modest little craft before attempting anything pretentious

your spare cash in the operation. The building of a cabin cruiser from the keel up is a good sized undertaking for a single worker, even though he be a professional, and for an amateur the difficulties are of course immeasurably greater. With a helping hand, now and then, from some one who has been through it or who is in the business, you can undoubtedly succeed in time, but the time will be almost hopelessly long if you are in regular business and have only your spare hours to devote to the undertaking. It would be far more satisfying all round if you were to begin with a modest little eighteen foot motor boat. This will take time enough and if you try to bite off more than you can chew within a reasonable time the fun will speedily vanish and drudgery will take its place. Most amateur boat builders are apt to rush and hurry through the last part of the work at any rate and thus defeat the real end of obtaining a thoroughly satisfactory craft. The work itself is not of the sort that can be pushed very fast by inexperienced hands and where time is limited and help scarce the magnitude of the effort should be limited to the facilities.

Do not slight the expense side of the question. As in most other things it will probably cost much more before you get through than you think for, but if you make a careful estimate beforehand, including all details not only of the engine and hull but also the necessary interior furnishings and all fittings, you will come much nearer the right figure. Don't forget that the hull and engine are not everything. You can't run without gasoline and tanks to put the juice in. Neither will she stand without hitching and you must have good and adequate ground tackle. The list of accessories need not be unlimited, as one would think from sundry bulky catalogues, but it will probably be much more extensive than you think, particularly if the boat

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The man who builds a house without asking about the sash cord to be used, is laying up trouble for himself. Some cords last days or months where they ought to last years. It won't take a moment of your time or cost you a penny more to insist that the specifications mention

## "Silver Lake A"

### Braided Sash-Cord

(Name stamped indelibly on every foot)

Its smooth surface offers nothing on which the pulley can catch. It is pre-stretched, so that the weight at once assumes its final position.

There are no imperfections in its make-up, so that, unlike ordinary cordage, it won't break easily. A written guarantee for 20 years, like the blank shown herewith, is given to every one who desires it.

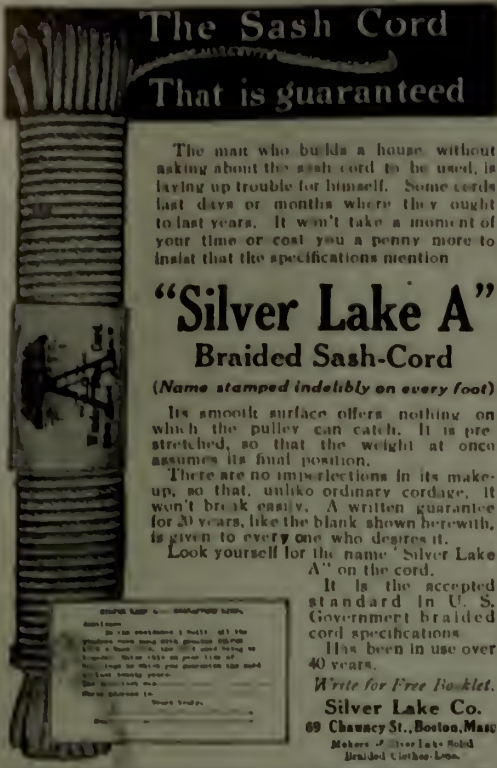
Look yourself for the name "Silver Lake A" on the cord.

It is the accepted standard in U. S. Government braided cord specifications.

Has been in use over 40 years.

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THIS fine old tree that contributed so largely to the interest and charm of this place, was neglected so long that the top became a tangle of vitality sapping growth. The lower limbs have been indiscriminately cut off, until now the tree has been robbed of much of its characteristic beauty, and looks more like an animated umbrella. The apples are, of course, inferior in quality, and difficult to pick. Are you neglecting any of your trees this way?

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is a cabin cruiser. It is hardly possible that you will save any money in building instead of buying but by the latter process you lose all the pleasure of the workmanship and also of pointing with pride to a boat which you made yourself. And there are many who find this almost as much fun as actual motor boating.

## BEAUTIFUL AMERICA

(Continued from page 24)

These hills rise from five to seven hundred feet above the water and are peculiar in form and rich in coloring. Often they are smoothly sculptured and clothed with grass of velvet softness. Pyramids abound, and lovely little creeks invite exploration at other points, abrupt rocks push



A stretch of the roadway skirting Mackinac Island

out into the flood, but for the most part the slopes are suave of outline and gorgeously garmented with birch, sumac, and oak, and the water flows silently, smooth as oil.

As the river was of old a silent and solitary stream so it is to-day, for with the passing of the steamboat and the raft it has returned to something like its ancient emptiness. After studying it for weeks in a house-boat I brought away an impression of glorious color, of profound silence, of majestic loneliness and of dream. It was all so solemnly beautiful by night, so gleaming, and purple and empty by day. The stark high headlands looping away into haze, the golden bars of sand jutting out into the burnished flood, the thickets of yellow-green willows, the splendid oaks of the bottom-lands, the little glades opening away to the hills, all suggested the time when the redman's teepee and the redman's canoe were the only signs of man. Often all evidence of the railway was lost, and at such moments I half expected to see a fleet of bark canoes steal from behind some wooded island, and would have not been surprised to catch the sprangle of teepee poles beneath some ancient elm. These flowering savannahs have a charm which will not pass with time—they will richen with the years.

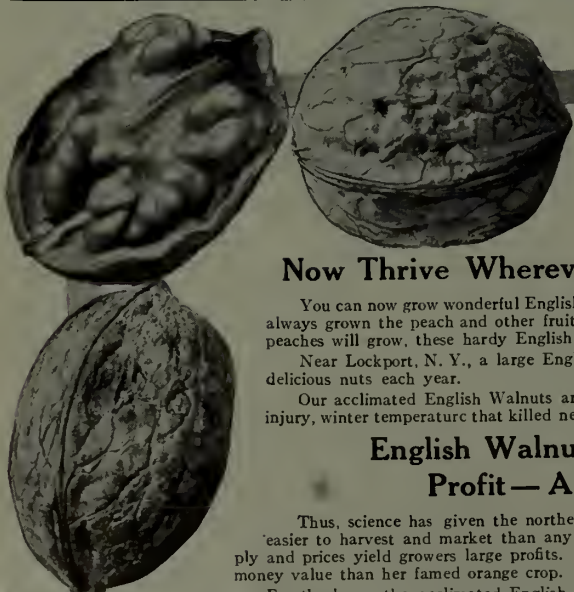
Lake Pepin, which lies between Lake City and Frontenac, in any other land but ours would have been celebrated in song and story, but here it lies almost unknown and almost unused. A few summer homes have been built at its northern extremity and Lake City on a lovely meadow looks out upon it from the southwest, but its beauty, its story, have not yet made the appeal



The dells of the Wisconsin River

which will one day make it the summer home of hundreds of those who dwell in the cities to the south and west.

In the woods of Wisconsin, in the lands desolated by the lumberman, are lakes of clear cold water, the breeding places of wild fowl, the lure of fisherman and those who love solitude and quiet, but these waters have no high hills



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Now Thrive Wherever Peaches May Be Grown

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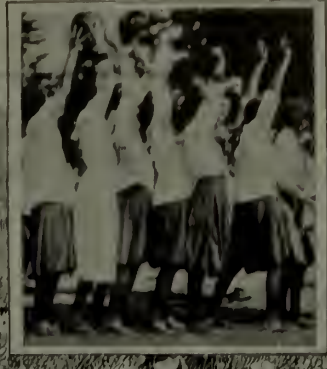
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to build shadows in their deeps. They have the charm of loneliness, of serene solitude, which many find as satisfying as the sterner lines of the larger lakes to the north and east. Michigan and Minnesota present ever bolder and more resounding shore-lines to the wave and northern Wisconsin and the sculptured cliffs and forested promontories of Lake Superior are a growing attraction to those who seek the sterner phases of these inland seas.

Between the Mississippi and the Missouri in the states of Iowa, Minnesota, and the Dakotas is a vast prairie region, a most productive farming country with gentle hills, slow streams, and rich dark soil. From the Lake region above St. Paul and Minneapolis the land rises gradually to the plains, broken only by the coulees of the Missouri and two lines of hills called the coteaux. From the beginning of the coulee country in eastern Iowa these prairie lands are cut by rivers running southward, the Root, the Cedar, the Des Moines, the Missouri, all wooded, running between limestone or sandstone cliffs. In ancient days this was a vast pasture land for millions of wild kine, a land of bees and flowers and water fowl. It is to-day one of the richest farm lands in the North and has a distinct appeal to the eye in its gentle sweeping lines, its wide horizon, its superb sky effects, and its suggestion of breadth, of tranquility, and abundant food. The loneliness which once oppressed the heart of the observer is giving way. The farm-buildings rising from groves of elm and maple, the small towns with neat and comfortable homes, the smooth meadows scattered over with red and black cattle, possess a beauty which the barbed wire fence and the rectangular pikes can not entirely destroy.

Nebraska, Kansas, the Dakotas, all unite within their borders the prairie and the plains. They begin in the land of the crow's foot and the tiger lily, but as they sweep westward and upward the short curly grass, the cactus, the



A bend in the Desplaines River, near Chicago

sage-brush, the piñon-spotted hills of the arid lands increase until on the border of Colorado the terraces leading to the foot-hills announce the Rocky Mountains and the roaring streams. Southeastern Dakota is like Iowa, but northwestern Dakota with its weird bad-lands, its Black Hills, and its desolately beautiful gulches is an entirely different world. A thousand miles lie between Lake Geneva and Deadwood, but to go from one to the other is like passing from Surrey to Siberia, so great are the changes of climate, of soil, of habitation. Along all these miles from Chicago west and north, and from St. Louis the French names indicate the original explorers. La Salle, Dubuque, Duluth, Joliet, and Marquette are eloquent of the epic story of those brave days of exploration. There is a growing disposition to preserve the more striking natural beauties of this region. Starved Rock has been included in a park by the state of Illinois and several similar movements are being directed by the leaders of conservation in Wisconsin.

[EDITORS' NOTE.— Other articles of this series which have

been published in past issues are: "An Artist's Florida," by Thomas Shields Clarke, December 1st, 1911; "Southern California," by Edwin Markham, January 15th, 1912; "Northern California," by Edwin Markham, February 1st; "The Great Southwest," by Stewart Edward White, March 1st; "The Sunny South," by Thomas Nelson Page, April 1st; "Where Flows the Oregon," by William G. Steel, May 1st; "The Old Middle Colonies," by Hamilton Wright Mabie, June 1st; "New England—Mother of America," by Mary E. Wilkins Freeman, July 1st; and "The Rocky Mountain Region," by Enos A. Mills, August 1st. The remainder of the series includes: "The Great Plains and Prairies," by Emerson Hough and "The Lower Mississippi Valley," by Grace King.]

## A CORRECTION

MR. JOHN M. OLIN, whose work in connection with the Madison parks is mentioned on page 13, writes that the prices paid for Eastern nursery stock are incorrect, and that he did not visit the Arnold Arboretum.

## A WORD FROM THE EDITORS

THERE are some big plans developing within the editorial cranium that bid fair to come to completion within a very short time. In fact, we shall probably have an important announcement to make in this column in our next issue, or the one after it.

On October 15th, by the way, we publish our annual double Housebuilding Number, with its usual number of practical features and wealth of photographs.

Meanwhile, may we direct your attention to the

## CONTENTS FOR OCTOBER 1ST

Emerson Hough, author of "The Mississippi Bubble," "54-40 or Fight," and a number of other "best sellers," has written the eleventh instalment of "Beautiful America" for the October 1st issue of COUNTRY LIFE IN AMERICA. It is entitled "The Plains and Prairies," and is full of the spirit of the West. The article is superbly illustrated. The issue also includes:

"Why We Should Protect Our Shore Birds," by W. L. McAtee of the U. S. Biological Survey. He gives practical, utilitarian reasons for a movement that is often based on sentimental grounds. Photographs by A. Radclyffe Dugmore, Herbert K. Job, and others.

"Making Friends with a 'Possum," by Dr. Charles Haskins Townsend, Director of the New York Aquarium. An intimate study of a curious animal. Photographs by Arthur G. Eldredge.

"Summer Porch Decoration," by Thomas McAdam. Photographs by Ella M. Boulton. A charming bit of gardening next the house.

"Women Riders and Their Mounts," by I. C. Caldwell. Some practical suggestions to women riders on what is essential to comfort and pleasure in this best of all sports.

"Caring for a Farm Woodlot," by Phil M. Riley. How farmers and country estate owners can add to the value of their property and insure a permanent income for old age.

"Growing Mushrooms as a Paying Business," by Frances B. L. Howe. Describing the methods of a Pennsylvania farmer who has cleared more than \$3,000 on mushrooms annually for nine years.

"Rustic Bridges of Stone and Wood," by Albert Porter. A message to owners of country estates on the adaptability and fitness of the rustic bridge, with hints as to methods of construction and cost.

The Homebuilders' Supplement includes: "A Century-old House of Stucco over Brick," by Julian Buckley; "Novel Entrances to Concrete Houses," a page of pictures; "The Story of a Country Dining-Room," by Charles T. Scott; and "A Consistent Dutch Dining-Room," by Jonathan A. Rawson, Jr.

The departments: Stock and Poultry and Country Life Abroad.

## PASS IT ON

Here is an extract from a letter received recently from one of our subscribers:

"Not many months ago a copy of COUNTRY LIFE IN AMERICA, which Mrs. C. gave to one of our local hospitals, where it was much enjoyed by a patient, had a comment of pleasure written upon one of its pages; and that same publication passed along through many hands and found its way into a hunter's camp down on the Kankakee River, and at four months after the date of its issue I had the pleasure of again looking it over and witnessing the comment of others.  
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