

AY
81
.F306

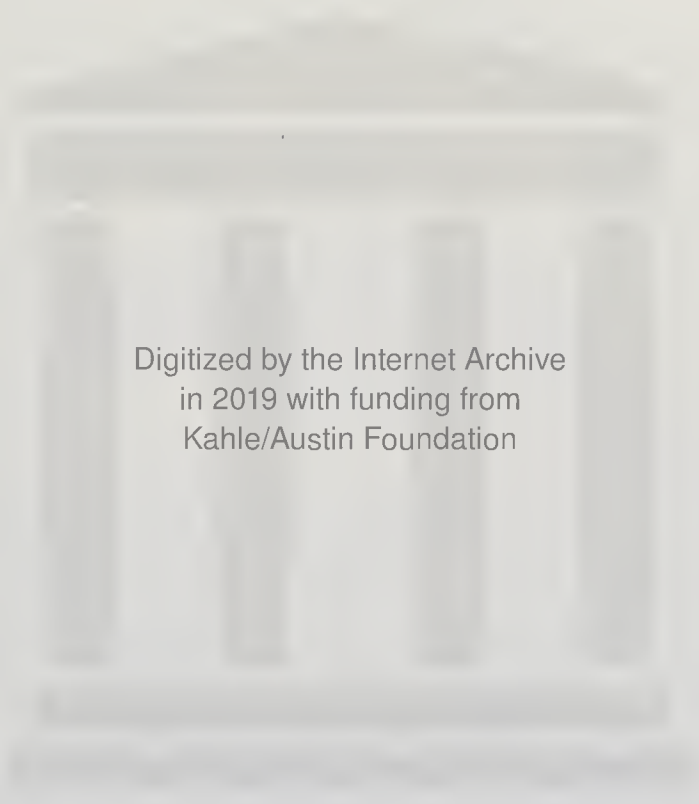
NUNC COGNOSCO EX PARTE



TRENT UNIVERSITY
LIBRARY

PRESENTED BY

PROF. F.A. HAGAR



Digitized by the Internet Archive
in 2019 with funding from
Kahle/Austin Foundation

AY81 .F306 1966

THE ORIGINAL ROBERT B. THOMAS FARMER'S ALMANAC, PUBLISHED EVERY YEAR SINCE 1792

LARGEST PAID ALMANAC RETAIL SALE IN THE WORLD. OVER 100 PAGES OF NEW, USEFUL, ENTERTAINING MATTER

No. CLXXIV

SPRING

SUMMER

THE OLD FARMER'S ALMANAC 1966 BY ROBERT B. THOMAS



Price 35 Cents

Weather Forecasts, Secrets of the Zodiac, Recipes



He wrote an anthem in oak and pine

Down from Nova Scotia he came, a thousand long and hungry miles, to work in a New York shipyard for \$2.50 a week. Then Donald McKay was happy at last, for he was learning how to build ships.

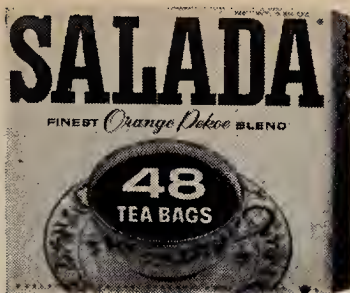
He built ships as other men write poems, or compose music, or paint pictures. It was his way of expressing himself. He could put a strangely moving message into the taper of a bowsprit. He could say something thrilling with the rake of a long pine mast.

So Donald McKay soon grew famous for ships which his countrymen recognized as symbols of their own soaring American spirit. From his yards came the great clippers—bigger, swifter, lovelier than any sailing vessels had before. *Flying Cloud... Westward Ho... Sovereign of the Seas... the Great Republic*—even their names were music, like the names of poems. And each one was an immortal message of faith in the promise of American life.

John Hancock
LIFE INSURANCE

John Hancock Mutual Life Insurance Company
200 Berkeley Street, Boston, Mass. 02117

A



When the Almanac says it's going to be cold.

That's the time for a nice cup of hot tea made with Salada Tea Bags. Each bag contains a blend of over 23 different teas.



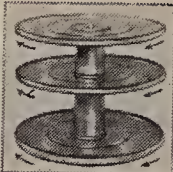
When the Almanac says it's going to be hot.

That's the time for a cooling glass of iced tea made with Salada Iced Tea Mix. The sugar and lemon flavoring are already in it.



When the Almanac is wrong.

That's the time to be ready with a jar of 100% pure Salada Instant Tea—for delicious hot or iced tea in seconds.



SPIN-A-SPICE RACKS

Now you can triple your shelf space with these "touch-turn" racks! They revolve to bring the dessert, spice, baby food jar, etc., you want into easy front row reach. Made of sturdy enamelled metal with raised edges so items stay put. Handsome enough for counter top, cupboard or kitchen cabinet. 3-tier is 8" high, 11" diam. 2-tier is 5½" x 11".

21063 2-tier Copper. 2.98

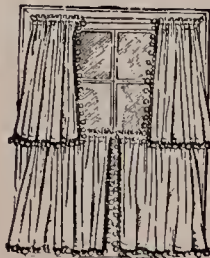
21113 2-tier White. 2.98

21253 3-tier Copper. 3.69

21303 3-tier White. 3.69

SINCE 1818 **BRECK'S** OF BOSTON
29th BRECK BLDG. BOSTON 10, MASS.

CURTAIN CHARM WITH BALL FRINGE ON UNBLEACHED MUSLIN



20", 25", 30",
36", 40" long \$3.00

(2 pair to
window \$6.00

45", 54", 63",
72" long \$4.50

81", 90" long \$6.00

all types 80"
wide per pair

Matching Val-
ance 9"x80" \$1.50

All Prices
Postpaid

For years clever New England housewives have made these charming UNBLEACHED MUSLIN curtains for every room in the house. Now you can buy them direct with all the original simplicity, warmth and hand-made look. Practical, long-wearing, these unusually attractive curtains of off-white muslin with matching color ball fringe retain their crisp appearance with a minimum of care. Also available in bleached white muslin for \$1 more per pair. Valance .50 more.

Satisfaction guaranteed. Send check or money order, no COD's please. Write for illustrated brochure showing other curtains, dust ruffles and pillow shams in bleached and unbleached muslin as well as curtains in burrap, floral prints, calico ruffles, organdy, Oznaburg and bed-spread fringe.

COUNTRY CURTAINS

Stockbridge, Mass. 01262 Dept. 100

Wayside Gardens



Double CLEMATIS

Mrs. P. T.
James

A DOLLAR FOR A CATALOG?

We've heard it. . . . Maybe you've thought so too. . . . How can Wayside charge \$1.00 for its catalogs when most other nurseries give theirs away free? Well. . . . If our catalog cost only a few cents each. . . . we too, would be delighted to distribute ours without charge.

BUT. . . . Our customers are gardeners who want something different. They want to be able to pick and choose their favorites from wide selections of thoroughly tested subjects in an infinite variety of unusual types of plant material.

So our catalogs have to be big. . . . actually we publish two separate catalogs yearly. Our Spring book contains 224 pages, while the Fall Planting book is 144 pages big. Both are filled from cover to cover with the world's finest garden subjects. . . . *Everything*, just everything from perennials, shrubs and trees to fruits, bulbs, lilies and colorful vines. If you are looking for unusual shrubs, Wayside's catalog has over 40 pages devoted to shrubs alone.

And, what's more, everything is carefully described and beautifully illustrated with true-color photographs large enough to see clearly. . . . so you'll know exactly what you are buying.

To get your copy of THE WORLD'S FINEST HORTICULTURAL BOOK CATALOGS. . . . enclose \$1.00 with your request for each catalog. . . . to cover postage and handling costs. Specify Spring or Fall Planting.

DOUBLE CLEMATIS, Mrs. P. T. James

The amazingly beautiful new Clematis shown above looks like a shower of exploding blue stars. A magnificent climbing vine that is filled with a great quantity of large, double, blue flowers with graceful pointed petals. Each, \$5.00

201 Mentor Ave., Mentor, Ohio

Wayside Gardens

World's Most Amazing Adjustable Dress Form

GUARANTEES CUSTOM-FITTING CLOTHES ... OR NO COST!

A Newly Patented Single Form That Adjusts Easily to Regular Sizes, half Sizes and Many Figure Variations from 8 to 20 Inclusive (Special Model for Sizes 20½-50)..New ... Easy-to-Use ... Low Cost!

So Easy To Use Even a Beginner Can Make Custom-Fitting Clothes. Distinguished Italian-American Designer Creates Brand New

Dress Form Called PERFECT-FIT ADJUST-O-MATIC, So Strong It Won't Crack, Chip or Break — Stores Away Easily!

If you are one of the many women who "struggle along" on

gueswork without a dress form — if you've hesitated to invest in a dress form that is useless once you gain or lose weight—if you feel that an adjustable form has too many complications without accuracy — here's exciting news for you!

Distinguished Designer Develops Most Flexible Dress Form Ever

After years of painstaking research, Luigi Cella, Distinguished Italian-American designer for 35 years, has finally developed the dress form called PRECISION FIT ADJUST-O-MATIC, the one dress form so handy and simple to use

... so fool-proof to assemble with the clear step-by-step instructions included ... so flexible and adaptable that you can virtually reconstruct your own figure and that of other women in your family. The Magic Secret, found only in ADJUST-O-MATIC, is a unique precision-accurate method of "dialing" your dimensions. Fit the 15 slide-together sections into each other ... gently apply pressure with your fingers until your print-

ed number shows through the magic windows in every measurement area — and ADJUST-O-MATIC virtually reconstructs your figure..

Takes The Gueswork Out of Sewing

With your ADJUST-O-MATIC dress form you see in advance just how attractive and becoming your dress, skirt, coat, or blouse will look..Now you can fit, pin, hem, baste, alter perfectly. Your made-at-home clothes will have the custom-fitted look you desire.

Never again need you struggle, strain, twist, turn, trying to get a perfect fit ... or wear-out-of-style clothes ... or discard expensive alterable suits and dresses because you've gained or lost a few pounds.

AMAZING TRIAL OFFER .

We're so convinced PERFECT FIT ADJUST-O-MATIC will aid you to make beautifully tailored, professional clothes the first time you use it that we make this AMAZING NO RISK OFFER. Try revolutionary ADJUST-O-MATIC in your own home for 30 days. If you are not 100% delighted, return it for full refund.



GUARANTEE

MAIL THE AMAZING TRIAL COUPON TODAY! If after using ADJUST-O-MATIC in your own home for 30 days, you don't agree that it will save you endless time, work, and money...if you are not 100% delighted, return it for full refund!



This rugged, collapsible steel stand recommended for best results with dresses, coats, other full figure clothes. Only \$1.98

U.S. PATENT NO. 2,922,555

HERE'S THE AMAZING SECRET



This photo of shoulder section shows how MAGIC WINDOWS in measurement areas give custom fit at all times.

WHY PERFECT FIT ADJUST-O-MATIC GIVES YOU CUSTOM TAILORING

- Adjusts To Your Own Personal Figure Measurements
- Grows and Loses Right Along With You
- Scientific Guide Lines Insure Perfectly Centered Seams
- Conforms To Standard Patterns
- Assemble And Use In Sections Or Full Figure
- Lightweight! Use Even When Sitting
- 15 Take-Apart Sections Store Away Flat On Shelf Or In Drawer

MAIL THIS AMAZING TRIAL COUPON TODAY

MADISON HOUSE, INC.

Dept. FA-1, 122 East 42nd St., N. Y. 17

Please rush revolutionary PERFECT FIT ADJUST-O-MATIC Dress Form that guarantees custom-fitting clothes for the entire family for 30-day NO RISK TRIAL. If after trying PERFECT FIT ADJUST-O-MATIC I am not delighted in every way, I will return it for full refund.

CHECK Reg. Size (8 to 20) Recommended if bust is 30"-40".
HERE: Large Size (20½-50) Recommended if bust is 41"-52".

Enclosed is check or m.o. for \$ _____
Send me:

ADJUST-O-MATIC Dress Forms @ \$4.95
Collapsible Steel Dress Stands @ \$1.98

Name _____

Address _____

(Please add 35¢ postage for each)

FABULOUS MEXICO WHERE EVERYTHING COSTS LESS

The land of retirement and vacation bargains—that's Mexico

Where you can build a modern home for \$4500 and an American retirement income looks like a fortune. It's the land where your vacation money can buy double or more what it might back home—provided you know where to go for Mexico's best values.

Norman's Ford's big book **FABULOUS MEXICO—WHERE EVERYTHING COSTS LESS** tells you exactly where to get all of this country's best vacation and retirement values, where you can live like a prince on what you might just get along on in the U.S.A.

Norman Ford knows Mexico from north to south, from east to west, and he takes you to vacation and retirement areas that look more like the South Seas than Tahiti itself; to whole sections of just perfect weather where it's like June all year round; plus resort after resort, towns, cities, spas, and what not else where you'll have a vacation to remember at a cost so low it could seem unbelievable.

If you want a delightful retirement area with plenty of Americans around

to talk to, he leads you to all the principal retirement towns, as well as dozens of little known, perhaps even more delightful areas, where costs are way far down, there's plenty to do and meeting people is easy. Always, he shows you modern, flower-bedecked hotels and inns that charge hardly half of what you might expect to spend in even such a land of vacation and retirement bargains as Mexico.

There's a great deal more besides: everything from exploring ancient pyramids as old as Egypt's to finding fabulous hunting and fishing. If you might want to share in the high interest rates Mexican banks pay or to buy equally high-earning real estate or start a business of your own, this detailed guide to a fabulous land tells you what you must do to start your money earning so much more than in the U.S.

FABULOUS MEXICO—WHERE EVERYTHING COSTS LESS opens up Mexico to you. It's a big book, yet it costs only \$1.50. So send for yours today.

OFF-THE-BEATEN PATH

Where to Retire or Vacation . . . at what look like prewar prices

These Are America's Own Bargain Paradises

In *Off-the-Beaten Path*, the big book by Norman Ford, you can read of island paradises aplenty in the United States and Canada, of art colonies (artists search for picturesque locations where costs are low!), of areas with almost a perfect climate or with flowers on every side.

Here are the real U.S.A.-brand Shangri-Las made for the man or woman who's had enough of crowds. Here, too, are unspoiled seashore villages, tropics-like islands, and dozens of other spots just about perfect for your retirement or vacation at some of the lowest prices you've heard of since the gone-forever prewar days. And for good measure you also read about the low-cost paradises in Hawaii, the Virgin Islands, and Puerto Rico.

You can be sure that *Off-the-Beaten Path* names the low-cost Florida retirement and vacationing towns, the best values in Texas, the Southwest, California the South and East, Canada—and a dozen other areas which the crowds have not yet discovered:

- That undiscovered region where winters are as warm as Miami Beach's yet costs can be two-thirds less.
- That island that looks like Hawaii yet is 2000 miles nearer (no expensive sea or air trip to get there).
- France's only remaining outpost in this part of the world—completely surrounded by Canadian territory . . . or a village more Scottish than Scotland or age-old Spanish hamlets right in our own U. S. where no one ever heard of nervous tension or the worries of modern day life.
- That remarkable town where a fee of 3¢ a day gives you an almost endless round of barbecues, musicals, concerts, picnics, pot luck suppers, smorgasbord dinners, and a fine arts program.

Off-the-Beaten Path is a big book filled with facts that open the way to a different kind of retirement or vacation made all the more attractive by the rock-bottom prices. About 100,000 words and plenty of pictures. Yet it costs only \$2.

PASSENGER
CARRYING**FREIGHTERS**

are the secret of low cost travel

Yes, for no more than you'd spend at a resort you can take a never-to-be-forgotten cruise to Rio and Buenos Aires. Or through the Canal to either New York or California. Or to the West Indies or along the St. Lawrence River to French Canada. In fact, trips to almost everywhere are within your means.

And what accommodations you get: large rooms with beds (not bunks), probably a private bath, lots of good food and plenty of relaxation as you speed from port to port.

Depending upon how fast you want to go, a round-the-world cruise can be yours for as little as \$250-\$300 a month. And there are shorter trips. Fast uncrowded voyages to England, France, South America; two- or three-week vacations up and down the Pacific Coast or elsewhere. Name the port and the chances are you can find it listed in "Travel Routes Around the

World."

This is the book that names the lines, tells where to go, how much they charge, briefly describes accommodations. Hundreds of thousands of travelers all over the world swear by it. Travel editors and travel writers say "To learn how to travel for as little as you'd spend at a resort get 'Travel Routes Around the World'."

It's yours for just \$1 and the new big 110-page edition includes practically every passenger-carrying service starting from or going to New York, Canada, New Orleans, the Pacific Coast, Mexico, South America, England, France, Africa, the Indies, Australia, the South Seas, Japan, Hawaii etc. There's a whole section called How to See the World at Low Cost.

A big \$1 worth especially as it can open the way to more travel than you ever thought possible. For your copy, simply fill out coupon.

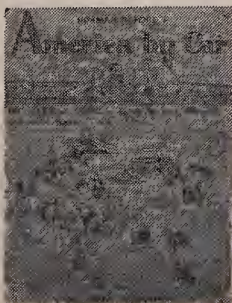
AMERICA BY CAR

This big book is your insurance of seeing all the four-star sights in whatever corner of the U.S. or Canada you drive to (and it even covers Mexico as well). Day by day, America by Car tells you where to go from Alaska to Mexico. Whether you are visiting New England or California, Florida or the National Parks, the Great Lakes, the Mississippi, the East, the South or the Southwest, the Indian country, etc., it tells you road by road the scenic way to go and it always directs you to the important sights along the way and in the cities.

In Niagara or Los Angeles, Washington or New Orleans, the Black Hills or Montreal, America by Car takes the guesswork out of travel. Of course it names hundreds upon hundreds of recommended places to eat and stay.

America is so big, you can easily overlook or forget important sights or make many a wrong turn. So get America by Car, the book that makes sure you'll see everything of consequence and always travel right.

America by Car is fully 170,000 words in length (for which most publishers would charge \$5-\$8). But it costs only \$2.50 while it helps you see any part of America as you've probably never before explored this part of the world.



Mail to:

HARIAN PUBLICATIONS,

30 Park Drive

GREENLAWN (Long Island), N.Y.
11740

I have enclosed \$. (cash, check, or money order). Please send me the books checked below. **YOU WILL REFUND MY MONEY IF I AM NOT SATISFIED.**

- Fabulous Mexico—Where Everything Costs Less. \$1.50.
- America by Car. \$2.50.
- Travel Routes Around the World. \$1.00.
- Off-the-Beaten Path—these are America's own bargain paradises. \$2.00.

Special Offer: All 4 books above—
\$7 value—for only \$4.

Name

Address

City

& State Zip Code



HAS YOUR LITTLE BOY EVER HAD LUNCH WITH A DUCK?

Ducks like sandwiches too!

Especially the outside part (the bread).

The *inside* part is more for little boys . . . especially when it's delicious, wholesome Underwood Deviled Ham!



WM. UNDERWOOD COMPANY
1 Red Devil Lane, Watertown, Mass.
*Celebrating the 100th anniversary of
Underwood Deviled Ham*



MARGUERITE CARTER

What did this woman predict about the future?

This is the woman who prophesied, in a publication of September 1964: . . . *the president's sudden move to block the candidacy of Robert Kennedy for Vice President . . . the attempt on the life of Dr. Martin Luther King in 1964 . . . the ouster of Khrushchev at a time when he seemed to be the most powerful man in the world!* These predictions were fulfilled less than a year after their writing.

The remarkable knowledge and exciting background of this woman are evident in her writings. Miss Carter's newspaper features have appeared across the nation and in England; her books have been read around the world. Her lecture tours have taken her to almost every major city in the U.S. Research for knowledge of the ancients has led her to remote areas of the earth.

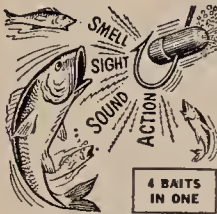
A lifetime devoted to the study of planetary influences on our lives, personal counseling and guidance by Marguerite Carter, make her work of greatest value to thousands of clients, year after year. The sincere, authoritative help in her Unitology Forecast, compiled for the individual, has become widely known and respected. The thoroughness and accuracy of Miss Carter's descriptions and outlook for your year ahead are truly amazing! Following are typical excerpts from letters from clients who have written after receiving their Forecasts: ". . . utter fascination. You have really encouraged me!" M.A., R.I. ". . . life is far more pleasant to look forward to." A.B., Calif. ". . . My sincere thanks for opening the door to greater understanding." B. W., Wash. ". . . This will pull me through." J. G., Conn.

Her Forecast with Special Notations contains the guidance that can open the door to a bright, new future; outstanding indications of changes, your home life, associations with others, financial outlook and opportunities are covered.

TEST HER! Send for your own Forecast with Special Notations for your year ahead. It will be individually assembled to your birth-date. Print month, day, year, place and hour of birth (if known) and include \$3.00 plus 25¢ toward mailing costs. (Or send \$2.00 plus mailing cost for Forecast *without* her special work.) Allow three weeks for careful, proper attention. Address: Marguerite Carter, Dept. OFA66, Jackson Building, Indianapolis, Indiana 46225

CATCH MORE FISH OR NO COST

Amazing "4-Way" Bait Pills DRIVE FISH CRAZY



Flashing blood-red color streaks behind your hook,—bubbling sound as it wobbles and twists—pungent odor that all fish love—plus "Live" action of a wounded minnow.

WORKS IN ALL WATERS LEGAL IN ALL STATES

Fish night or day, with cane pole,—hast cast, spin or troll,—fish lakes, creeks, ponds or the ocean and if "SCREAMING MEEEMY" doesn't do what we promise, your money back. Not yet sold in stores. So order your season's supply NOW—hy mail.



J. Caddell, Ala., tried "Screaming Meemy". See these beauties landed by him. Catch fish like these with "Screaming Meemy".

SEND NO MONEY

Simply fill in and mail coupon. On arrival pay postman only \$2.98 plus C.O.D. Two packages for \$5. Cash orders sent postage paid. Order in 10 days and receive FREE of extra cost wonderful hook "99 Secrets of Catching Cat Fish."

From
WALLING KEITH CHEMICALS, INC.

Dept. 29-D, P.O. Box 2112, Birmingham, Ala.

Walling Keith Chemicals, Inc., Dept. 29-D

P.O. Box 2112 Birmingham, Ala.

Please send me the "SCREAMING MEEEMY" Fish bait Pills I have checked below

- () 1 Pkg. Screaming Meemy @ \$2.98
 () 2 pkgs. Screaming Meemy @ \$5.00
 () Send C.O.D. I will pay cost plus C.O.D.
 () Enclosed find \$_____ ship prepaid

Name.....

Address.....

City.....State.....Zip.....

Now, a sensational "all-in-one" fish lure called "SCREAMING MEEEMY" attracts fish "like magic" works four ways to better catch more and bigger fish. Catches Bass, Trout, Pike, Muskies, Bream, Perch, Salmon, Eone Fish and Catfish are crazy about "SCREAMING MEEEMY". No matter if they strike by sight, smell, sound or because they're awful mad they'll streak toward your hook—the big ones usually get there first.

SENSATIONAL NO-RISK GUARANTEE

Try "SCREAMING MEEEMY" without risking one penny. Order a package of these magic "4-Way" capsules today. Try them on your next fishing trip. If you, haven't caught more, bigger fish than on any previous trip, return empty carton for refund.

IN CASE OF FIRE

Safeguard the Lives
Entrusted to You



Made in England

\$ 7.50 ppd.

Can be re-used; winds like a clock. Alarm activates at 125°.

FAIL-SAFE

Flag warning extends visibly when alarm becomes inoperative after use or due to tampering. Colors:

Decorative white or flame red.
ENCLOSE CHECK OR MONEY ORDER

No C.O.D., PLEASE

30 DAY MONEY BACK GUARANTEE

Boston Firewarning

146 SUMMER ST.—BOSTON, MASS. 02110

GARDENING FORECAST:

Beautiful Flowers,
Year 'Round Fun



Everlite[®] ALUMINUM GREENHOUSES

- Easily Installed
- Little Maintenance
- Inexpensive

Write for literature
and price list FA-6

Aluminum Greenhouses, Inc.

14615 Lorain Avenue
Cleveland, Ohio 44111

NEW RESEARCH SHOWS

Grandma's Molasses gives you quick energy, aids natural regularity

Now it is clear why so many people write us to say that taking Grandma's regularly makes them feel so good, keeps them regular. Grandma's, the same wonderful molasses you have been using for baking and cooking over the years, is now reported to be an ideal pepper-upper and all-round health food. It's rich in blood building iron: contains useful calcium to build strong bones, as well as Vitamin B₁. And it's up to 20% richer in quick energy than other types of molasses.

It is scientifically true that Grandma's exerts a natural regulating effect, yet is not a laxative. When you eat lightly or don't balance your food properly and get too little bulk, Grandma's helps overcome resulting constipation, naturally and easily. In fact, many people prefer Grandma's to prunes or bran flakes.

So take a spoonful morning or night. Put Grandma's in milk, whole or skimmed. Try it in coffee for a delicious sweetener.

And, of course, continue to give it to the whole family in cookies, ginger bread, baked beans, in ham glazes, barbecue sauces and other dishes. Grandma's Molasses adds nourishment and delicious goodness to everything. It is the unsulphured molasses, lighter, sweeter.

Send for free 36-page recipe booklet illustrated in color and other helpful information on Grandma's Molasses. Write to Dept. F-66, P.O. Box 33, Wall St. Station, New York, N. Y.



FAMILY ARMS

Direct from England



genuinely emblazoned from old records filed under 100,000 British & European sur-names. In relief and full colour on immaculate OAK WALL SHIELDS for mural decoration.

7" x 6" — \$ 9.00
 12" x 10" — \$20.00
 14" x 12" — \$25.00
 22" x 18" — \$40.00

postpaid. Your check is returned if the Arms cannot be traced. School, Ship, Regimental Shields, Trade Marks, etc., similarly reproduced. Write Britain direct.

Dept. OFA
YORK INSIGNIA LTD.,
YORK, ENGLAND

PEANUT OIL POMADE with Hormones & Turtle Oil



REVOLUTIONARY DISCOVERY BY A GREAT SCIENTIST — for a healthy scalp, to combat dandruff and itching scalp, help grow long, abundant hair which is so stylish today.

#1 Dry Scalp 4 oz. \$1.95
 #2 Oily Scalp 8 oz. \$3.00

FOR MEN, WOMEN, CHILDREN

Send money order or check. No C.O.D.

MARCHADO LABORATORIES, Dept. X
 Box 745, New York, N.Y. 10019

Burpee Seeds Grow

Burpee's colorful new garden catalog offers the finest selection of flower & vegetable seeds, including new Burpee introductions, famous Burpee hybrids, bulbs, and garden supplies. Write today for your free copy. **FREE Catalog**

W. Atlee Burpee Co., 1 308 Burpee Bldg.

Phila., Pa. 19132 Clinton, Iowa 52733 Riverside, Cal. 92502



WONDERING WHERE TO CAMP????

CAMPING MAPS USA. The original camping atlas tells you everything you need to know about camping and trailer sites. All States. Spiral-bound on maps. Indexed by State. Includes latest routes, list of facilities, where pets permitted, State speed laws, etc. Only \$3.95 postpaid. Also available: PRIVATE CAMPGROUNDS USA & OVERNIGHT TRAILER

PARKS On Maps, spiral-bound, indexed by State. Only \$2.95 postpaid.

CAMPING MAPS, U.S.A. Box 2034Y, Palos Verdes Pen., Calif. 90274

Please send me:

Camping Maps USA @ \$3.95
 Private Campgrounds USA @ \$2.95

Sorry! No C.O.D. orders.
 Camping Trips USA @ \$1.00
 Camping Maps, Can. @ \$1.00

NAME..... ADDRESS.....
 CITY..... STATE..... ZIP.....

10 B SPRUCE for E \$2.

Perfect for landscaping or Christmas Trees. COLORADO BLUE SPRUCE 4-year transplants, 4 to 8 in. tall, 10 for only \$2. ppd.*, 25 for \$4. ppd.*

BLACK HILL SPRUCE 12 for only \$3. ppd.*

Bushy, symmetrical trees ideal for group planting or to frame doors or windows. Bright foliage with green to bluish tint. Vigorous 4-yr. TRANSPLANTS, 5 to 8 in. tall 12 for \$3. ppd.*

25 SCOTCH PINE \$3. ppd.*

Ideal for windbreaks or quick growing screens. Grow rapidly even on poor soil. Make excellent Christmas trees. Have beautiful thick gray-green foliage. Not seedlings! These are hardy 3-yr.-old TRANSPLANTS 5 to 8 inches tall. 25 for only \$3. ppd.*—that's only 12c each!

ALL TRANSPLANTS GUARANTEED TO LIVE (*West of Miss. River or south of N.C., Tenn. add 25c per offer.)

Order Now for shipment in spring or fall. Evergreen Folder free.

WESTERN MAINE FOREST NURSERY CO.
 Dept. OF-66, Fryeburg, Maine 04037

LEARN MORE ABOUT YOUR ANCESTORS

Ancestor hunting is one of the fastest growing hobbies because it is so interesting and educational for young and old. Send 25¢ for 12 sample recording forms and a complete catalogue of family tree research aids.

The Everton Publishers, Inc.
 FPO Box 368, Logan, Utah

Magnificent, Giant-Size Full Color Masterpiece



FREE AS THE WIND by August Albo

Beautify Your Home With This Exquisite Reproduction That Is More Than THIRTY TIMES THE SIZE OF THIS FULL PAGE

Put one of these large, breathtakingly beautiful masterpieces in your home and see what a dramatic change takes place. There is a new trend in home decorating toward big prints. And these are really big! Each is over three feet wide and two feet deep (42" x 26").

You'll be amazed at the wonderful change that takes place in your room the moment you hang one of these giant paintings. The colors are gorgeous and the painting's superb. Hang one of these giant murals in your home for one week without risk. If you are not thrilled, the low price of just \$3.00 will be refunded without question.

OFFER WILL NOT BE REPEATED

Painted by the artist of the Crown Prince of Russia, this dramatic painting wins praise and admiration from everyone who sees it. Its rich and lovely colors . . . its masterful craftsmanship . . . the way it enhances the appearances of any room . . . all of these must be seen to be fully appreciated. But to get your giant-size, full color print at the special advertising price of just \$3, be sure to mail no-risk coupon today. This offer will not be repeated in Old Farmer's Almanac.

Great Art, Dept. MO-106
420 Lexington Avenue
New York 17, N. Y.

Please send me the giant-size full color FREE AS THE WIND print (frame NOT included) for just \$3 on full money-back guarantee if I am not delighted.

Enclosed is \$.....

Name
(Please Print)

Address

City

Zone State

SAVE! SPECIAL OFFER: Order 2 prints for only \$5 on same money-back guarantee. Extra print makes a lovely gift.



THE SUN SHOWER.

From The Original Painting By Carl Raup.

Number One Hundred and Seventy-four

THE
(OLD)
FARMER'S ALMANACK,
CALCULATED ON A NEW AND IMPROVED PLAN
FOR THE YEAR OF OUR LORD

1966

Being 2nd after BISSEXTILE or LEAP YEAR, and (until July 4)
190th year of American Independence

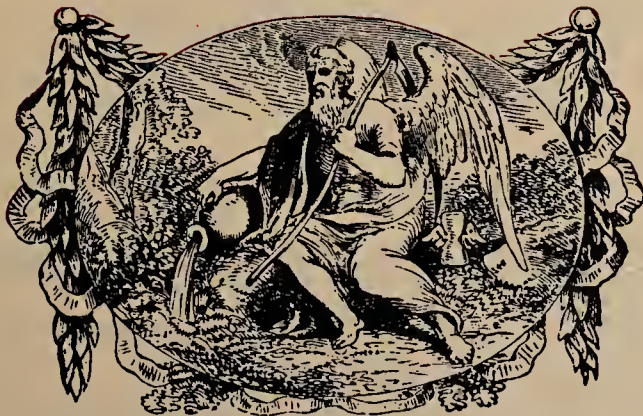
FITTED FOR BOSTON, AND THE NEW ENGLAND STATES, WITH SPECIAL CORRECTIONS AND CALCULATIONS TO ANSWER FOR ALL THE UNITED STATES.

Containing, besides the large number of Astronomical Calculations and the Farmer's Calendar for every month in the year, a variety of

NEW, USEFUL, AND ENTERTAINING MATTER.

ESTABLISHED IN 1792

BY ROBERT B. THOMAS.



Ye noble few! who here unbending stand
Beneath life's pressure, yet bear up awhile,
And what your bounded view, which only saw
A little part, deem'd evil is no more:
The storms of Wintry time will quickly pass,
And one unbounded Spring encircle all.

The Seasons, *James Thomson*
1726

COPYRIGHT, 1965, BY
ROBERT HAYNES, JANE M. CHOATE,
MRS. EUGENE L. SWAN

COVER T.M. REGISTERED
IN U.S. PATENT OFFICE.

LIBRARY OF CONGRESS
CARD No. 56-29681

Address All Correspondence to
THE OLD FARMER'S ALMANAC
DUBLIN, N. H. 03444, U.S.A.

Index

Agricultural Extension Stations.....	66
Anecdotes and Pleasantries.....	48-49
Aphelion, Earth In.....	6
Aspects.....	9, 11-33
Astrology, Zodiac.....	38-41
Auto Laws.....	52
Birthstones.....	39-41
Calendar, 1965-66-67.....	8
Charades, Word.....	60
Cold Summer, 1816.....	46
Corrections, Use Anywhere.....	81
Crockett, Davy.....	64
Dates, Historical.....	11-33
Days, Length of, Fast, Feast.....	9, 10-33
Don Quixote.....	86
Earthquake Forecast.....	72
Eclipses, Moon and Sun.....	6
Essay Contest, 1966 & 1965 Winning.....	67
Explanations.....	5, 9, 81
Farmer's Calendars.....	11-33
Fortune Telling.....	58
Fishing, Best Days, Laws.....	37-41, 62-63
Frosts.....	37
Game Laws.....	62-63
Gestation Periods.....	76
Heat, Animals In.....	76
Holidays, Church, State, Weekend Weather.....	7, 11-33
Holy Days.....	11-33
Household Hints.....	96
Hunting Laws.....	62-63
Lottery (N.H.).....	68
Measures, Table of.....	57
Moles, Fortunes by.....	58
Moon, Best Signs of.....	37
Full at Horizon, 1966-70.....	6



Phases, Rise and Set, Place.....	10-32, 36
Rainbow.....	70
Not Guilty.....	53
Perihelion, Earth In.....	6
Planets, Rise and Set.....	34-35
Planting Table.....	36
Poetry, Verse.....	1, 11-33, 38-41
Postal Laws, Domestic.....	78
International.....	79
Puzzles.....	61
Rainbow (Moon).....	70
Recipes.....	54
Remedies.....	96
Reproductive Cycle.....	76
Scientific Progress.....	42-45
Seasons.....	9
Skunks, Mating of.....	77
Slide, Kelly, Slide.....	50
Stars, Morning and Evening.....	34-35
Sun: Rise, set, declination, set sundials by (fast and slow).....	10-32
Tides, High, Low, Height of.....	10-33, 83
Twilight, Length of.....	82
Weather, Forecast.....	5, 11-33, 80
Weather, Last Winter's.....	4
Whitington and Cat.....	73
Zodiac Signs.....	9, 10-32, 38-41

GLOSSARY OF ASTRONOMICAL TERMS, ETC.

- Aph.** — Aphelion . . . Planet revolving about Sun reaches point in its orbit farthest away from the Sun.
- Apo.** — Apogee . . . Moon reaches point in its orbit farthest from Earth.
- Conj.** — conjunction . . . moment of closest approach to each other of any two heavenly bodies.
- Declination** (see top left hand calendar pages) . . . measure of angular distance any celestial object lies perpendicularly north or south of celestial equator. Exactly analogous to terrestrial latitude. OFA gives declination at time each day the Sun is due South.
- El.** — elongation . . . apparent angular distance of a member of the solar system from the Sun as seen from the Earth.
- Inf.** — Inferior . . . Inferior conjunction is when the Planet is between the Sun and the Earth.
- Moon Runs High or Low** . . . day of month Moon Souths highest or lowest above the horizon.
- Opposition** . . . time when Sun, and Moon or Planet appear on opposite sides of the sky (elongation 180 degrees).
- Perl.** — Perigee . . . Moon reaches point in its orbit closest to Earth.
- Peri.** — Perihelion . . . Planet revolving about the Sun reaches point in its orbit closest to Sun.
- R.A.** — Right Ascension . . . the measure Eastward along the celestial equator of any celestial body from the vernal equinox to the point where the circle which passes through the object perpendicular to the celestial equator intersects the latter.
- Stat.** — stationary . . . when the apparent movement of a Planet against the background of Stars stops — just before same comes to opposition.
- Sunrise and Sunset** . . . visible rising and setting of Sun's upper limb across the unobstructed horizon of an observer whose eyes are 15 feet above ground level.
- Sun Fast** . . . the times given in this column must be subtracted from your Sun Dial to arrive at the correct time.
- Sup.** — Superior . . . Superior Conjunction is when the Sun is between the Planet and the Earth.
- Twilight** . . . begins or ends when stars of the sixth magnitude disappear or appear at the Zenith — or the Sun is appr. 18 degrees below the horizon.
- Underground Moon** . . . one which changes its phases between 12 M. and 1 A.M.

To Patrons

This is the 174th consecutive annual edition of THE OLD FARMER'S ALMANAC (K) . . . the oldest continually published, in the same name and format, periodical in America. This edition is for the year 1966, or Atomic Year 22.

Age, we presume, among other things is an accumulation of memories — and, as such, a measure of progress. A penny for her thoughts turned up this one from Mrs. Irene Bacon of Phoenix, Arizona. She obtained it from Madine Coleman, who had inherited it from her Kentucky grandmother. Madine had saved it for many years as a "Receipt for Washing Clothes."

1. Bld fire in back yard to het kettle of rain water.
2. Set tubs so smoke wont blow in eyes lf wind is pert.
3. Shave 1 hole cake lie sope in bilin water.
4. Sort things, make 3 piles. 1 pile wblte, 1 pile cullord, 1 pile work brlches and rags.
5. Stur flour in cold water to smooth then thin down wltb blln water.
6. Rub dirty spots on board, scrub hard-tben bile.
7. Rub cullord but dont bile just rench and starch.
8. Take white tblings out of kettle wltb broom stick handel then rench, blew and starch.
9. Spred tee towels on grass.
10. Hang old rags on fence.
11. Por rench water in flower bed.
12. Scrub porch with hot sopy water.
13. Turn tubs upslde down.
14. Go put on clean dress smooth hair wltb slide combs — brew cup of tee, set and rest and rock a spell and count your blessing.

Few of the 1.5 mlllon Americans who turn 65 each year would prefer the old outdoor wash tubs to the modern washing, drying, and ironing machines. But what a wonderful feeling of ease and accomplishment — things one does not find from nervous macbines — in that "rest and rock a spell."

Memories also furnish a remarkable kind of medicine — difficult to find in the hustle and bustle of the present. An anonymous 19th Century poet has described it thus:

Mlrth is the medicne of life;
It cures lts ills, it calms its strife,
It softly smooths the brow of care
And writes a thousand graces there.

My old hound dog before the hearth, asleep on a wintry nght, used to twitch his legs and yelp. Was that perhaps caused by this medicine of mirth — his memory of a particularly wild rabbit chase? Sometimes my grandfather used to laugh aloud in his unntentional sleep after the evening meal beside his kerosene lamp. Was one of those chuckles, I have often wondered, about the day his pigs got out and paid a vlsit, next door, to an outdoor lawn party our fancy neighbors were having for Hlgb Society? Dented fenders, jet plane scbedules, dlal phones, radio, and television sometimes bring laughs — but not the kind of mlrth my old dog — or grandfather — knew.

Still and all, age has no regrets, Few would lve their lves over. Most will agree the most heartening thoughts of all are of the struggles and the sacrifices made for those who are now the young.

Loring Andrews has again prepared the astronomical matter in this issue, Benjamln Rlce the Farm Calendars, and Abe Weatherwise the weather forecasts. Other contributors are by-lined. The distribution of this edltion is close to two mlllion copies, and tbanks to our distributors (Triangle Publications), the Almanac looks to lts 175th next year with hope and confidence.

Again our gratitude is expressed to the very many friends who are always glad to help us in malntalning the character and popularity of this publication. We trust our own efforts in its bebalf may continue to warrant your approbation. Man, however, in these things can only propose. God is the true disposer. In this it is by our works and not our words we would be judged. These we hope will sustaln us in the humble, though proud, station we have so long held, in the name of

Your ob'd servant,

W. O. Thomas.

Last Winter's Weather

(Nov., Dec. 1964—Jan., Feb., Mar., Apr. 1965)

In the 1965 edition of this Almanac, Page 72, Abe Weatherwise suggested that the six Winter months above would average 34.15°—or slightly below normal. At Blue Hill, near Boston, for which this forecast was made, the temperature averaged 33.2°. Abe also predicted 21.23" of precipitation—Blue Hill had 19.89"—both quite a bit below normal. For snow, Abe foresaw 75.85"—and at Blue Hill it did snow 65.4". In this connection, Abe felt most of the snow would be in January—and over 50% of it was.

Abe's "day-to-day" forecasts ran 70% correct in November, 70% in December, 47.4% in January, 43.4% in February, 72.7% in March, and 47.3% in April. He'd have done a lot better had not many of the storms he predicted come in, when he said they would, either north or south of his Blue Hill forecasting base.

More disillusioned than any others by storms not coming in where forecasters supposed they would was the northeastern ski community. Its loss from lack of good snow ran close to half a billion dollars.

The records kept by George Hyland, Maintenance Engineer of the Massachusetts Turnpike Authority (Boston to Lee, Mass.) show that 58" to 87" of snow fell on the Turnpike during these months, vis-avis Abe's 75.85", and there were some 8 to 10 additional storms involving sleet and rain. Had a crew man on this Turnpike used this Almanac as a guide, he would have been properly forewarned on a little over half of those at the Boston-Chocopee Stations. He used 15,223 tons of salt compared with 12,494 the year before—but less sand. In the interests of highway safety, more salt than sand is now the policy.

A serious drought in the Dust Bowl—and from New Jersey throughout the Northeast (with the exception of December in the East)—continued through the Winter months. Reservoirs, at press time, in the East are at 25% of capacity. Abe's forecast (see next page) indicates that, as far as the East is concerned, above-normal precipitation is to be expected in 1966. The Dust Bowl is something else again. About all that can be said is, as a rule, dry or wet years usually run in triads—and the Dust Bowl, by 1966, will have had its "dry three."

SUMMARY

November 1964

1-30 (exc. 3rd week) heavy rains Cal., Ore., Wash. 15-30 drought ended Ohio R. Valley. 1-30 very dry, Fla.—S.C. Heavy snow Lakes Michigan—Superior areas.

December 1964

1-7, heavy snow Okla.—Ind. Rain in south. 7, cold in East. 15-20, snow, Northeast, Wash., Ore. 25, snow, floods, Cal. W. Ore.

January 1965

12, snow Wash., D.C.—Me. 16-18, snow Nebr., NYC, Boston. 17, ski resorts despair. 18, Fla. freeze. 20, Inaugural clear, heavy snow Cape Cod and around Buffalo. 23-24, heavy snow, Wash-Ore. Critical ice storm Ill.

followed by cold wave. 24-25, dust storms Tex.-Fla. 30, floods Pacific NW. Very cold upper Midwest.

February 1965

1, snow NYC. 2, dust storm Tex. 22, snow Northeast. 26, storms 21 states—Ill.—N.H.

March 1965

17, 22 tornadoes Ala.; blizzard Mich. 20, snow Northeast. 27, snow Minn. (bringing Winter total to double normal).

April 1965

2, snow Nantucket; 2-9, 37 tornadoes So. side Lake Mich., esp. Ohio. 11, terr. tornadoes Ind. 16, floods Minn. St. Paul. 18, New England only, snowstorm. 30, Miss. R. flooding Iowa.

Weather Forecast 1965-6

1. This forecast is made for a twelve-inch-square spot at the summit of Blue Hill, a few miles south of Boston, latitude $42^{\circ}13' N$, longitude $71^{\circ}07' W$, elevation 629 feet.
2. To adapt this forecast to other locations:
 - a) The temperature will be approx. 5° lower for each 100 miles north of 42° lat.; 5° higher for each 100 miles south of 42° lat.
 - b) For each 1,000 feet of altitude above 629 feet, the temperature will be about 3.3° cooler.
 - c) In each time zone west of the Eastern Time Zone, you may expect the weather to arrive one day earlier than the forecast says it will, i.e., Pacific Coast weather will arrive 3 days earlier.
3. The table on Page 80 applies to everywhere, without adjustment.
4. The correction tables, Pages 81-5, apply only to sunrise, sunset, etc., and *not to weather*.
5. There are doggerel verses on the right-hand calendar pages (Pages 11-33) for each month. These appear in *italics* running down these pages, next to the Farm Calendars. These verses coincide with the prose forecasts given below except in some instances where they extend over longer periods.
Example: See page 11. Opposite the dates January 13-18 you will note the italic reads *Worst January thaw you ever saw*. This means the thaw may come in anytime between these two dates, and corresponds to the similar prose forecast for the same dates (see below under Jan. (1966)): "**January thaw, rain 2".**"
6. Finally . . . as no scientist, alive or dead, has ever developed an infallible method for weather prediction more than 48 hours ahead, these forecasts below are at best just weather indications or trends. You can place *full* reliance on the astronomical data in this Almanac but, as to weather, well, as the editor of this Almanac wrote in his Preface for his edition of 1793, "You shall see when it arrives what it is."

THE YEAR

(January 1-December 31, 1966)

The next year (1966), will bring 52.66" precipitation. This is 5.43" above normal and, except for July, August and November, not a year of drought. The average temperature will be 47.7° (or about one degree below normal). July will be hot as well as dry, but August real cool, along with December (1966).

THE WINTER

(November 1965-April 1966)

Next winter's weather, beginning November 1, 1965 and ending April 30, 1966, will produce 91" of snow (or 26.6" above normal); 31.11" of precipitation (5.86" above normal); and will average 33.67" (or about 3.5° below normal). Details follow, and the storms to watch are set in bold face type. December and February are the two bad months.,

THE FOURTEEN MONTHS

Nov. (1965): Temp. 42.6° ($.6^{\circ}$ above normal.) Precip. 7" (2.47" above normal), of which snow is 6" (3.84" above normal).

1, clear; 2-5, 1" snow, 1" rain; 6-7, clear; 8-10, 1.5" rain, 2" snow; 11-15, clear and cool; 16-20, severe storm and gales, 2.5" rain; 21-22, overcast; 23-24, 1" rain, 2" snow, high tides; 25-26, cold and clear; 27-30, 1" rain, 2" snow.

Dec. (1965): Temp. 30° (1.2° below normal). Precip. 2.89" (1.07" below normal), of which snow is 8" (4.7" below normal).

1, rain .5"; 2-8, clear and cold; 9-12, rain .5", snow 2"; 13-14, windy, high tides; 15-17, rain

.5", snow 1"; 18-19, clear and cold; 20-21, rain .5", snow 1"; 22-23, overcast; 24-26, rain .89", snow 4"; 27-31, overcast, high winds.

Jan. (1966): Temp. 27.8° ($.8^{\circ}$ above normal). Precip. 5.36" (.87" above normal), of which snow is 26" (11.1" above normal).

1-3, rain-sleet, 1", snow 6"; 4-5, clear-cold; 6-10, windy, high tides, rain 1", snow 8"; 11-12, clear; 13-18, **January thaw, rain 2"**; 19-21, very cold; 22-24, 1" precip. (snow 10"); 25-28, cold-windy; 29-31, milder, rain .36", snow 2".

Feb. Temp. 24.4° (3° below normal). Precip. 4.65" (.92" above

Continued on page 72

ECLIPSES FOR THE YEAR 1966

There are four eclipses, two of the Sun and two of the Moon, during 1966.

I. A Penumbral Eclipse of the Moon, May 4, 1966. This eclipse, not visible from the United States, will be seen, at its beginning, from Africa, central and eastern Europe, Asia except the northeastern part, the Indian Ocean, Australia, Indonesia, the western Pacific Ocean, and Antarctica. The end of the eclipse will be visible from South America, the Atlantic Ocean, Africa, Europe, the western half of Asia, the Indian Ocean, and Antarctica.

II. An Annular Eclipse of the Sun, May 20, 1966. This eclipse is not visible from the United States. In either annular or partial phase it is to be seen from the eastern Atlantic Ocean, throughout Europe and Asia, and Africa as far south generally as the equator. The annular phase can be observed along a path which begins just north of the equator near longitude 30°W, extends thence north-eastward to and across the hump of Africa to the Mediterranean. Its path across the Mediterranean extends, generally speaking, from Tripoli, past the southern tip of Greece, to the Bosphorus, whence it passes across the southern end of the Black Sea, touches the northern tip of the Caspian Sea, and crosses China to its end-point about 250 miles south of Peiping.

III. A Penumbral Eclipse of the Moon, October 29, 1966. The entire duration of this eclipse will be visible from the United States except for its ending which will occur after the moon has set for observers along the east coast. The eclipse begins at 2.54 A.M. and ends at 7.32 A.M., while mid-eclipse occurs at 5.13 A.M., all times Eastern Standard Time. The beginning of the eclipse will be visible in North and South Americas, the western Atlantic Ocean, the Pacific Ocean, New Zealand, the northeastern part of Asia, and the Arctic. The end of the eclipse will be seen from North America (except its east coast), the Pacific Ocean, Australia, New Zealand, Indonesia, Asia except the western part, the eastern half of the Indian Ocean, and the Arctic.

IV. A Total Eclipse of the Sun, November 12, 1966. The area of visibility of this eclipse lies almost entirely in the southern hemisphere. As a partial eclipse of small extent it will be visible along most of the Gulf Coast of the United States and the southern half of Florida at sunrise. Its broad area of visibility covers all of Latin America except northwestern Mexico, the eastern Pacific Ocean, the Atlantic Ocean from the equator to Antarctica, and Africa below latitude 10°S. The path of totality, about 30 miles wide at its maximum breadth, extends from a point just north of the equator at longitude 104°W. to one about 1000 miles east and south of Capetown, South Africa. It lies entirely over the waters of the eastern Pacific and south Atlantic Oceans except for its swath across South America which extends from the west coast at Lima, Peru to the east coast just south of Rio Grande do Sol, near the border between Brazil and Uruguay. The maximum duration of the total phase is 1 m. 37 s.

EARTH IN PERIHELION AND APHELION, 1966

The Earth will be in Perihelion on January 3rd, distant from the Sun 91,344,000 miles. The Earth will be in Aphelion on July 4th, distant from the Sun 94,445,000 miles.

FULL MOON DAYS

	1966	1967	1968	1969	1970		1966	1967	1968	1969	1970
Jan.	7	26	15	3	22	July	2	21	9	28	18
Feb.	5	24	14	2	21	Aug.	1-30	19	8	27	16
Mar.	6	25	14	4	22	Sept.	29	18	6	25	15
Apr.	5	24	12	2	21	Oct.	29	18	6	25	14
May	4	23	12	2-31	20	Nov.	27	17	4	23	13
June	3	22	10	29	19	Dec.	27	16	4	23	12

1966

Holidays

WEATHER

†Are recommended as "with pay" holidays—regardless of regular periods—for all commercial employees. (*) Quite generally observed. (**) State holidays only. (***) Observed some places though probably not holidays.

All dates are also included in abbreviated form on the Calendar Pages (11-33).

Jan. 1 (**†) New Year's, Sat., Rain, Sleet, Snow	May 20 (**) Mecklenburg (N. C.)
Jan. 8 (**) Battle of New Orleans	May 21 (**) Armed Forces Day
Jan. 15 (**) Arbor Day (Fla.)	May 30 (**†) Decoration or Memorial Day, Mon., Very Wet
Jan. 19 (**) Robert E. Lee's Birthday (South)	June 3 (**) Jefferson Davis Day (Ala., Fla., Ga., Ky., La., Miss., S. C., Tenn., Tex.)
Jan. 26 (**) MacArthur (Ark.)	June 11 (**) Kamehameha (Haw.)
Jan. 30 (**) F.D.R.'s Day (Ky.)	June 14 (**) Flag Day (Pa.)
Feb. 12 (**) Lincoln's Birthday (13 States) Sat., Snowy	June 15 (**) Pioneer Day (Idaho)
Feb. 14 (**) Admission Day (Ariz.)	June 17 (**) Bunker Hill (Suffolk Co., Mass.), Fri., Lovely
Feb. 14 (***) Valentine's Day	June 19 (***) Father's Day
Feb. 15 (***) Susan B. Anthony	June 20 (**) West Virginia Day
Feb. 22 (**†) George Washington's Birthday, Tues., Stormy	July 4 (**†) Independence, Mon., Hot, Wet
Feb. 22 (**) Mardi Gras. Ala., Fla. La.)	July 13 (**) Forrest's Day (Tenn.)
Mar. 1 (**) State Day (Nebr.)	July 24 (**) Pioneer Day (Utah)
Mar. 2 (**) Texas Ind. Day	Aug. 1 (**) Colorado Day
Mar. 7 (**) Burbank Day (Cal.)	Aug. 14 (**) Victory (R. I.)
Mar. 15 (**) Jackson Day (Tenn.)	Aug. 16 (**) Bennington, Vt. Bat.
Mar. 17 (**) St. Patrick's or Evacuation Day (Boston)	Aug. 30 (**) Huey Long (La.)
Mar. 25 (**) Maryland Day	Sept. 5 (**†) Labor Day, Mon., Clear
Mar. 26 (**) Kuhio Day (Haw.)	Sept. 9 (**) Admission Day (Cal.)
Mar. 30 (**) Seward's Day (Alas.)	Sept. 12 (**) Defender's (Md.)
Apr. 2 (**) Arbor Day (Ariz.)	Sept. 16 (**) Cherokee (Okla.)
Apr. 8 (**) Good Friday (Ark., Cal., Conn., Del., Fla., Ill., Ind., La., Md., Minn., N. J., N. D., Penn. & Tenn.) Windy, Rainy	Sept. 17 (**) Citizenship Day
Apr. 11 (**) Easter Mon. (N. C.)	Sept. 23 (***) Am. Indian Day
Apr. 12 (**) Halifax Day (N. C.)	Oct. 10 (**) Okla. Hist. Day
Apr. 13 (**) Jefferson Day (Ala., Mo., Nebr., Okla., Va.)	Oct. 11 (**) Pulaski Day (Nebr.)
Apr. 19 (**) Patriots' Day (Me., Mass.) Tues., Showers	Oct. 12 (**†) Columbus (All States exc. 10), Wed., Rain
Apr. 21 (**) San Jacinto (Tex.)	Oct. 18 (**) Alaska Day
Apr. 22 (**) Okla. Day. Arbor Day (Nebr.)	Oct. 24 (***) United Nations Day
Apr. 25 (**) Fast Day (N. H.), Mon., Stormy	Oct. 31 (**) Nevada Day
Apr. 26 (**) Memorial Day (Fla., Ga., Miss.)	Nov. 1 (**) All Saints' Day (La.)
Apr. 29 (*) Nat'l Arbor Day	Nov. 4 (**) Will Rogers (Okla.)
Apr. 30 (**) Arbor Day (Utah)	Nov. 11 (**†) Veterans' (All States exc. 4) Fri., Clear
May 3 (**) R. I., Indep. Day	Nov. 12 (**) Sadie Hawkins Day
May 8 (**) Mother's Day	Nov. 23 (**) Repudiation (Md.)
May 10 (**) Mem. Day (N. & S. C.)	Nov. 24 (**†) Thanksgiving Day Thurs., Clear, Cold
	Dec. 10 (**) Wyoming Day
	Dec. 15 (***) Bill of Rights Day
	Dec. 21 (***) Forefathers' Day
	Dec. 25 (**†) Christmas Day, Sun., Stormy

LONG HOLIDAY WEEKENDS

Of long holidays in 1966, there will be Washington's Birthday, which falls on a Tuesday, giving you Feb. 18-22; Easter (Sun., Apr. 10), taking Good Friday, you have April 8-11; Memorial Day, a Monday, allows May 27-31; July 4, a Monday, affords July 1-5; Labor Day, Monday, offers Sept. 2-6; Veterans' Day, a Friday, makes from Nov. 11-14; Thanksgiving, Nov. 24-28; and Christmas, a Sunday, gives Dec. 23-26 to many. New Year's is a Saturday, so is Lincoln's. Columbus Day is a Wednesday. New Hampshire, of course, gets a break and one more long weekend in its Fast Day (Mon. April. 25).

1965

JANUARY.							FEBRUARY.							MARCH.							APRIL.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	-	-	-	-	1	2	-	1	2	3	4	5	6	-	1	2	3	4	5	6	-	-	-	-	1	2	3
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13	4	5	6	7	8	9	10
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27	18	19	20	21	22	23	24
24	25	26	27	28	29	30	28	-	-	-	-	-	-	28	29	30	31	-	-	-	25	26	27	28	29	30	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAY.							JUNE.							JULY.							AUGUST.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	-	-	-	-	-	1	-	-	1	2	3	4	5	-	-	-	-	1	2	3	1	2	3	4	5	6	7
2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
23	24	25	26	27	28	29	27	28	29	30	-	-	-	25	26	27	28	29	30	31	29	30	31	-	-	-	-
30	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	-	-	1	2	3	4	-	-	-	-	-	1	2	-	1	2	3	4	5	6	-	-	-	1	2	3	4
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
26	27	28	29	30	-	-	24	25	26	27	28	29	30	28	29	30	-	-	-	26	27	28	29	30	31	-	
-	-	-	-	-	-	-	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1966

JANUARY.							FEBRUARY.							MARCH.							APRIL.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	-	-	-	-	-	1	-	-	1	2	3	4	5	-	-	1	2	3	4	5	-	-	-	-	1	2	3
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28	-	-	-	-	-	27	28	29	30	31	-	-	24	25	26	27	28	29	30
30	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAY.							JUNE.							JULY.							AUGUST.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	-	-	-	1	2	3	4	-	-	-	-	1	2	3	-	1	2	3	4	5	6
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	4	5	6	7	8	9	10
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
29	30	31	-	-	-	-	26	27	28	29	30	-	-	24	25	26	27	28	29	30	28	29	30	31	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-	-	-	-	-	-	-	-
SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	-	-	1	2	3	4	-	-	-	-	-	1	2	-	1	2	3	4	5	6	-	-	-	1	2	3	4
5	6	7	8	9	10	11	3	4	5	6	7	8	9	6	7	8	9	10	11	12	4	5	6	7	8	9	10
12	13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
19	20	21	22	23	24	25	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
26	27	28	29	30	-	-	23	24	25	26	27	28	29	27	28	29	30	-	-	-	25	26	27	28	29	30	31
-	-	-	-	-	-	-	30	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1967

JANUARY.							FEBRUARY.							MARCH.							APRIL.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	-	-	-	1	2	3	4	-	-	1	2	3	4	-	-	-	-	1	2	3	
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31	-	-	-	-	26	27	28	-	-	-	-	26	27	28	29	30	31	-	23	24	25	26	27	28	29
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	-	-	-	-	-
MAY.							JUNE.							JULY.							AUGUST.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	1	2	3	4	5	6	-	-	-	1	2	3	4	-	-	-	-	1	2	3	-	-	1	2	3	4	5
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31	-	-	-	25	26	27	28	29	30	-	23	24	25	26	27	28	29	27	28	29	30	31	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	31	-	-	-	-	-	-	-	-	-	-	-	-
SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	-	-	-	-	1	2	1	2	3	4	5	6	7	-	-	-	1	2	3	4	-	-	-	1	2	3	4
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31	-	-	-	-	26	27	28	29	30	-	-	24	25	26	27	28	29	30
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-

Introduction

STANDARD TIME IS USED THROUGHOUT THIS ALMANAC

Add 1 hr April 24, (deduct it Oct. 30) for Daylight Saving Time
For States which retain September D.S.T. Closing Date, Deduct it Sept. 25.

Chronological Cycles for 1966.

Golden Number . . . 10	Solar Cycle . . . 15	Roman Indiction . . . 4
Epact 8	Dominical Letter* . . . B	Year of Julian Period 6679

*The Dominical Letter is used instead of the usual "S" for "Sunday" by almanac makers for determining at a glance (a) the year of the almanac, (b) on what day of the week any day of the month will fall.

Movable Feasts and Fasts for 1966.

Septuagesima Sun. Feb. 6	Good Friday Apr. 8	Whitsunday May 29
Shrove Sunday Feb. 20	Easter Sunday Apr. 10	Trinity Sunday June 5
Ash Wednesday Feb. 23	Low Sunday Apr. 17	Corpus Christi June 9
1st Sun. in Lent Feb. 27	Rogation Sun. May 15	1st Sunday in Advent Nov. 27
Palm Sunday Apr. 3	Ascension Day May 19	

THE SEASONS OF 1966

Winter (1965)	December 21	8.41 P.M. (Sun enters Capricornus)
Spring (1966)	March 20	8.53 P.M. (Sun enters Aries)
Summer	June 21	3.33 P.M. (Sun enters Cancer)
Fall	September 23	6.43 A.M. (Sun enters Libra)
Winter	December 22	2.29 A.M. (Sun enters Capricornus)

Names and Characters of the Principal Planets.

☉ The Sun.	♀ Venus.	♃ Jupiter.	♆ Neptune.
☾ The Moon.	♁ The Earth.	♄ Saturn.	♇ Pluto.
☿ Mercury.	♂ Mars.	♅ or ♁ Uranus.	

Names and Characters of the Aspects.

♁ Conjunction, or in the same degree.	♁ Dragon's Head, or Ascending Node.
☐ Quadrature, 90 degrees.	♁ Dragon's Tail, or Descending Node.
♁ Opposition, or 180 degrees.	

Calendar Page Explanations and Signs

On the right hand pages you will find every now and again the symbols given above conjoined in groups of three to give you what is happening in the heavens. See Glossary, Page 2. Example: ♃♃♁ on Page 11, opposite Jan. 5 means Jupiter (♃) and the moon (♁) are on that day in conjunction (♁), or nearest to each other.

Weather Forecasts

See Page 5 . . . and the *italics* running down the center of Pages 11-33. For every time zone west of Boston, the weather will arrive *one day earlier* than the forecast says it will. The *italics* on Pages 11-33 may be spread over more than one day. This means the indicated weather may come in anytime during the days covered. Also see Page 80.

Planting Tables

See Page 36. Usual planting dates as well as those most *avored by the moon* are given for most parts of the U.S.A. Favorable signs are also included. See Pages 10-32 for the days on which these occur. Also see Page 38.

Astrology Signs and Meanings

See Pages 38-41 for birth date superstitions as well as those pertaining to brush cutting, weaning, planting, marriage, etc.

Planets

See Pages 34-35. Which planet is shining so brightly for you? These pages will help you to know. Also, the configurations these planets are making with each other is given in the symbols on Pages 11-33. Astrologers as well as students of the varying strength of radio and television signals find these configurations useful.

Tides

See Pages 10-32 for the times of morning and evening high tides, Pages 11-33 for the heights of these tides. Page 83 gives the corrections needed for your locality.

For Your Locality

See Pages 81-85 for adjustment of sunrise, sunset, moon, planets, etc., to where you live. These corrections apply to all astronomy tables in this Almanac which, incidentally, uses Boston as its base. However, these corrections do not apply to the weather forecasts. For the latter, see Page 5. (The table on Page 80 applies everywhere without correction.) If these corrections seem too complicated for you, send a stamped self-addressed envelope to THE OLD FARMER'S ALMANAC, Dublin, N. H. 03444, and we'll do them for you, free of charge.

1966]

JANUARY, FIRST MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
		1	23s.00	7	22 22	13	21 28	19	20 20	25	18 57					
	2	22 55	8	22 14	14	21 18	20	20 07	26	18 42						
	3	22 49	9	22 06	15	21 07	21	19 54	27	18 27						
	4	22 43	10	21 57	16	20 56	22	19 40	28	18 11						
	5	22 36	11	21 48	17	20 44	23	19 26	29	17 55						
	6	22 29	12	21 38	18	20 32	24	19 12	30	17 39						

- Full Moon, 7th day, 12 h. 17 m., morning, W.
- ☾ Last Quarter, 13th day, 3 h. 00 m., evening, W.
- New Moon, 21st day, 10 h. 47 m., morning, E.
- ☽ First Quarter, 29th day, 2 h. 49 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉		☽		Length of Days	Sun Fast	Full Sea, Boston.		☾		Key	☽		Key	☽	☽
			Rises h. m.	Key	Sets h. m.	Key			Morn h.	Eve h.	Rises h. m.	Key		Sets h. m.	Key			
1	1	Sa.	7 13	O	4 23	C	9 10	12	5 ³ / ₄	6 ¹ / ₄	12 ^P _M 25	G	12 ^A _M 57	J	TAU	10		
2	2	B	7 13	O	4 24	C	9 11	12	6 ¹ / ₂	7	12 50	F	2 04	L	TAU	11		
3	3	M.	7 13	O	4 26	C	9 12	11	7 ¹ / ₂	8	1 19	E	3 14	M	G'M	12		
4	4	Tu.	7 13	O	4 26	C	9 12	11	8 ¹ / ₄	9	1 57	C	4 27	N	G'M	13		
5	5	W.	7 13	O	4 27	D	9 13	10	9 ¹ / ₄	9 ³ / ₄	2 45	B	5 40	O	CNC	14		
6	6	Th.	7 13	N	4 28	D	9 14	10	10	10 ³ / ₄	3 45	B	6 51	P	CNC	15		
7	7	Fr.	7 13	N	4 29	D	9 16	9	11	11 ¹ / ₂	4 57	B	7 54	P	—	—		
8	8	Sa.	7 13	N	4 30	D	9 17	9	11 ³ / ₄	—	6 15	D	8 45	O	LEO	16		
9	9	B	7 13	N	4 31	D	9 18	9	0 ¹ / ₂	0 ³ / ₄	7 36	E	9 27	M	LEO	17		
10	10	M.	7 13	N	4 32	D	9 19	8	1 ¹ / ₄	1 ¹ / ₂	8 54	G	10 00	L	VIR	18		
11	11	Tu.	7 12	N	4 33	D	9 21	8	2 ¹ / ₄	2 ¹ / ₂	10 10	H	10 28	K	VIR	19		
12	12	W.	7 12	N	4 34	D	9 22	7	3	3 ¹ / ₂	11 ^P _M 22	J	10 53	I	LIB	21		
13	13	Th.	7 12	N	4 35	D	9 23	7	4	4 ¹ / ₂	—	—	11 18	H	LIB	22		
14	14	Fr.	7 11	N	4 36	D	9 25	7	5	5 ¹ / ₂	12 ^A _M 32	K	11 ^A _M 42	G	SCO	23		
15	15	Sa.	7 11	N	4 37	D	9 27	6	6	6 ¹ / ₂	1 42	L	12 ^P _M 08	E	SCO	24		
16	16	B	7 10	N	4 39	D	9 28	6	7	7 ¹ / ₂	2 50	M	12 38	D	SCO	25		
17	17	M.	7 10	N	4 40	D	9 30	6	8	8 ¹ / ₂	3 57	N	1 13	C	SGR	26		
18	18	Tu.	7 09	N	4 41	D	9 32	5	8 ³ / ₄	9 ¹ / ₂	5 00	O	1 55	C	SGR	27		
19	19	W.	7 09	N	4 42	D	9 33	5	9 ¹ / ₂	10 ¹ / ₄	5 58	P	2 43	B	CAP	28		
20	20	Th.	7 08	N	4 43	D	9 35	5	10 ¹ / ₄	11	6 48	P	3 38	C	CAP	29		
21	21	Fr.	7 07	N	4 45	D	9 37	4	11	11 ¹ / ₂	7 32	O	4 36	C	AQR	0		
22	22	Sa.	7 07	N	4 46	D	9 39	4	11 ³ / ₄	—	8 07	N	5 38	D	AQR	1		
23	23	B	7 06	N	4 47	D	9 41	4	0 ¹ / ₄	0 ¹ / ₄	8 37	M	6 40	E	AQR	2		
24	24	M.	7 05	N	4 48	D	9 43	4	0 ³ / ₄	1	9 02	L	7 42	F	PSC	3		
25	25	Tu.	7 04	N	4 50	E	9 45	3	1 ¹ / ₂	1 ¹ / ₂	9 24	K	8 43	G	PSC	4		
26	26	W.	7 04	M	4 51	E	9 47	3	2	2 ¹ / ₄	9 45	J	9 43	I	ARI	5		
27	27	Th.	7 03	M	4 52	E	9 49	3	2 ³ / ₄	3	10 05	I	10 46	J	ARI	6		
28	28	Fr.	7 02	M	4 53	E	9 52	3	3 ¹ / ₂	3 ³ / ₄	10 27	H	11 ^P _M 49	K	ARI	7		
29	29	Sa.	7 01	M	4 55	E	9 54	3	4 ¹ / ₄	4 ¹ / ₂	10 49	F	—	—	TAU	8		
30	30	B	7 00	M	4 56	E	9 56	2	5	5 ¹ / ₂	11 16	E	12 ^A _M 56	L	TAU	9		
31	31	M.	6 59	M	4 57	E	9 58	2	6	6 ¹ / ₂	11 ^A _M 49	D	2 ^A _M 04	N	G'M	10		



Nae mair the flow'r in field or meadow springs;
 Nae mair the grove with airy concert rings,
 Except perhaps the grosbeak's whistling glee,
 Proud o' the height o' some bit half-lang tree.
Burns

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	Circumcision. Venus near Peak Brilliance	Sneezes
2	B	2nd a. Ch. Holy Name	{ 8.9 then
3	M.	♀ Stat. in R.A. • ⊕ Peri	{ 9.8 8.2 freezes
4	Tu.	Latest Sunrises Tides	{ 9.8 8.5 noses &
5	W.	Twelfth Night ♄♃	{ 10.8 8.9 kneesees.
6	Th.	Epiphany. ☾ runs high	{ 10.8 9.2 Snows
7	Fr.	Full Undergound Cold Moon	Maids should marry tomorrow
8	Sa.	♁♀♁ • ☾ in Peri. La.	{ 11.4 — blow back
9	B	1st a. Ep. Arctic Snowy Owls return	into your track.
10	M.	Plough Monday • 1st Me. Coast	1791
11	Tu.	♁♁♁ Milan Cath. Fin. 1965	{ 10.0 10.7 No cheer
12	W.	☾ on Eq. • Parallel with	{ 9.9 10.1 here.
13	Th.	'Tis hard for an empty sack to stand upright	{ 9.9 9.5 Worst
14	Fr.	St. Hilary Coldest in Year	Tides { 9.8 8.9 Jan.
15	Sa.	♁♁♁ See Lev. XIX 2, 3	{ 9.7 8.5 Hol. Flaw
16	B	2nd a. Ep. Lucky Day	Tides { 9.6 8.2 you
17	M.	Small leaks sink many great ships	Tides { 9.6 8.1 ever
18	Tu.	Vermont admitted to Union 1791	• Lucky Day { 9.5 8.1 saw.
19	W.	♁rides Dr. Dooley low 1961	• Hol. South Pass the
20	Th.	Shad climb greased poles easier than stinners get to Heaven	anti-
21	Fr.	Druid's Influenza New Year • around 1966	freeze please.
22	Sa.	If clear expect a good year	• Panama Treaty '03 Double
23	B	3rd a. Ep. ♁♁♁ • ☾ in Apo.	shovel
24	M.	Churchill D. 1965	• Unlucky Day { 8.5 9.5 trouble.
25	Tu.	Conv. of St. Paul	♁♁ { 8.5 9.3 Drafts
26	W.	♁♀☉ Inf. • Tea Wars	Table • Hol. Ark. wast
27	Th.	☾ on Eq. Raccoons Mating	Tides { 8.6 8.7 ast &
28	Fr.	A bad oyster, like marriage, is not known until too late	{ 8.6 8.4 abast.
29	Sa.	Zepps bomb Paris, 1916	• Tom Paine Indication
30	B	4th a. Ep. F.D.R. B. 1882	Hol. Ky. { 8.8 7.9 of
31	M.	Cape Horn 1st doubled 1816	{ 9.0 7.9 precipitation.

Some thirty years ago the Fish and Game Department got interested in reintroducing beaver to our parts. The idea originated from the fact that Maine had a nuisance beaver surplus — flooding highways and Aroostook potatoes — and wanted them out. So our game wardens went up and got a lot of live beavers — free. We welcomed them. Beaver ponds would help the fishing (only partly true) and make a lot of water handy for forest fires; and maybe eventually beaver pelts would mean revenue to local trappers (I hoped not). Now, thirty years later, their multiplication has been miraculous. We look down from super highways to their dams; our little streams tumble between their ponds; from the air the somber flow of dark forests are bright with waters never gathered before. Somehow, all the bother of flooded roads and felled trees has become acceptance. With the price of beaver pelts down to pond bottom, and no incentive to trappers, the stranger lives with us in peace.

And the facts and myths of brother beaver make for such good, idle, curious thinking. Every schoolboy knows a beaver is forever at his cutting, else his teeth will grow long and curly, and his mouth won't shut, and he will be drowned in his own pond. And, of course, I know that too. But to dwell of a bitter winter night in the secret snugness of a beaver house, on a dry, warm shelf of willow, is a fancy that especially indulges my senility.

1966]

FEBRUARY, SECOND MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	17s. 05	7	15 18	13	13 21	19	11 16	25	9 05						
	2	16 48	8	14 59	14	13 00	20	10 54	26	8 42						
	3	16 30	9	14 40	15	12 40	21	10 33	27	8 20						
	4	16 13	10	14 20	16	12 19	22	10 11	28	7 57						
	5	15 55	11	14 01	17	11 58	23	9 49								
	6	15 36	12	13 41	18	11 37	24	9 27								

- Full Moon, 5th day, 10 h. 58 m., morning, W.
 ☾ Last Quarter, 12th day, 3 h. 53 m., morning, E.
 ● New Moon, 20th day, 5 h. 50 m., morning, E.
 ☽ First Quarter, 28th day, 5 h. 16 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☺ Rises h. m.	Key	☾ Sets h. m.	Key	Length of Days h. m.	Sun Fast	Full Sea, Boston. Morn. Ev.	☽ Rises h. m.	Key	☽ Sets h. m.	Key	☽ Place	☽ Age			
32	1	Tu.	6 58	M	4 59	E	10 01	2	7	7 $\frac{1}{2}$	C	12 $\frac{P}{M}$ 30	C	3 $\frac{A}{M}$ 16	O	G'M	11	
33	2	W.	6 57	M	5 00	E	10 03	2	7 $\frac{3}{4}$	8 $\frac{1}{2}$	B	1 23	B	4 27	P	CNC	12	
34	3	Th.	6 56	M	5 01	E	10 05	2	8 $\frac{3}{4}$	9 $\frac{1}{2}$	B	2 28	B	5 33	P	CNC	14	
35	4	Fr.	6 55	M	5 02	E	10 08	2	9 $\frac{3}{4}$	10 $\frac{1}{2}$	C	3 43	C	6 30	O	LEO	15	
36	5	Sa.	6 53	M	5 04	E	10 10	2	10 $\frac{1}{2}$	11 $\frac{1}{4}$	D	5 05	D	7 17	N	—	—	
37	6	B	6 52	M	5 05	E	10 13	2	11 $\frac{1}{2}$	—	F	6 27	F	7 55	M	LEO	16	
38	7	M.	6 51	M	5 06	E	10 15	2	0	0 $\frac{1}{2}$	G	7 48	G	8 26	K	VIR	17	
39	8	Tu.	6 50	M	5 08	E	10 18	2	1	1 $\frac{1}{4}$	I	9 05	I	8 53	J	VIR	18	
40	9	W.	6 49	L	5 09	F	10 20	1	1 $\frac{3}{4}$	2 $\frac{1}{4}$	J	10 18	J	9 19	H	LIB	19	
41	10	Th.	6 47	L	5 10	F	10 23	1	2 $\frac{3}{4}$	3	L	11 $\frac{P}{M}$ 30	L	9 44	G	LIB	20	
42	11	Fr.	6 46	L	5 12	F	10 25	1	3 $\frac{1}{2}$	4	—	—	—	—	10 10	F	SCO	21
43	12	Sa.	6 45	L	5 13	F	10 28	1	4 $\frac{1}{2}$	5	M	12 $\frac{A}{M}$ 41	M	10 40	D	SCO	22	
44	13	B	6 43	L	5 14	F	10 31	1	5 $\frac{1}{2}$	6	N	1 49	N	11 13	C	SGR	23	
45	14	M.	6 42	L	5 15	F	10 33	2	6 $\frac{1}{2}$	7	O	2 54	O	11 $\frac{A}{M}$ 53	C	SGR	24	
46	15	Tu.	6 41	L	5 17	F	10 37	2	7 $\frac{1}{2}$	8 $\frac{1}{4}$	P	3 54	P	12 $\frac{P}{M}$ 39	B	CAP	25	
47	16	W.	6 39	L	5 18	F	10 39	2	8 $\frac{1}{2}$	9	P	4 46	P	1 31	B	CAP	26	
48	17	Th.	6 38	L	5 19	F	10 41	2	9 $\frac{1}{4}$	10	O	5 31	O	2 29	C	CAP	27	
49	18	Fr.	6 37	L	5 21	F	10 44	2	10	10 $\frac{1}{2}$	O	6 09	O	3 30	D	AQR	28	
50	19	Sa.	6 35	L	5 22	F	10 47	2	10 $\frac{3}{4}$	11 $\frac{1}{4}$	N	6 40	N	4 32	E	AQR	29	
51	20	B	6 34	L	5 23	G	10 50	2	11 $\frac{1}{4}$	11 $\frac{3}{4}$	M	7 06	M	5 34	F	PSC	0	
52	21	M.	6 32	K	5 24	G	10 52	2	—	0	K	7 29	K	6 36	G	PSC	1	
53	22	Tu.	6 31	K	5 26	G	10 55	2	0 $\frac{1}{2}$	0 $\frac{1}{2}$	J	7 50	J	7 37	H	PSC	2	
54	23	W.	6 29	K	5 27	G	10 58	2	1	1 $\frac{1}{4}$	I	8 10	I	8 38	J	ARI	3	
55	24	Th.	6 28	K	5 28	G	11 01	2	1 $\frac{1}{2}$	1 $\frac{3}{4}$	H	8 31	H	9 41	K	ARI	4	
56	25	Fr.	6 26	K	5 29	G	11 03	3	2	2 $\frac{1}{2}$	G	8 53	G	10 45	L	TAU	5	
57	26	Sa.	6 24	K	5 30	G	11 06	3	2 $\frac{3}{4}$	3 $\frac{1}{4}$	E	9 17	E	11 $\frac{P}{M}$ 52	M	TAU	6	
58	27	B	6 23	K	5 32	G	11 09	3	3 $\frac{1}{2}$	4	D	9 46	D	—	—	G'M	7	
59	28	M.	6 21	K	5 33	G	11 12	3	4 $\frac{1}{2}$	5	C	10 $\frac{A}{M}$ 23	C	1 $\frac{A}{M}$ 02	N	G'M	9	



A dove-gray cloud, tender as tears or dew,
 From one lone hearth exhaling, hangs unstirred,
 Like the poised ghost of some unnamed great bird
 In the ineffable pallor of the blue.

Roberts

D.M.	D.W.	Aspects, Holldays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	St. Bridget $\delta\psi\psi$ Groundhogs'	Lacking "ilve news," the editor of our weekly paper occasionally plucks from his "morgue" such items as these. Elms still stand on Main Street, except the one "struck by lightning at the height of the shopping Friday night, crushing the Unitarian Church fence and flattening Bill Grissom's carry-all." Just spared Bill's horse, who galloped off with the front wheels, and Bill, who, by the grace of God and common sense, was under cover at Brindle's, drinking beer. Fifty years ago. "Dr. Jonathan Davis has hung out his shingle for general practice in the Sumner building." How many babies have you brought into the world since, Doc? "Silas Williams has presented the town with an elegant watering trough — for Man and Beast." Trough for beast, and a chained cup above where the sweet water was piped in, for man. The Women's Club now has geraniums in the trough. "At the height of the hurricane and flood, Grange Hall and the feed store went up in flames. Quick lime in the feed store got wet and spontaneously combusted, so the chief says. Too much fire and flood to save anything but The Tavern, being on high ground." Today there's a new bank and office building where The Tavern stood. Ten, twenty, fifty — sometimes, cautiously, sixty years ago. Not dead news, but as alive as last week's, which, in our street corner town, is old before it's printed!
2	W.	Par. of M. Candlemas or Groundhog Day shadows	
3	Th.	Four Chaplains runs {10.3 cover icy	
4	Fr.	Beware of accidents {10.9 meadows.	
5	Sa.	The Full Snow Moon ψ Perl. • $\delta\psi\psi$ Sup.	
6	B	Sept. S. Men, like melons, are hard to know: Skiers	
7	M.	$\delta\psi\psi$ Rained 4.01', 1941 {10.3 ahoy!	
8	Tu.	ψ on Begun in anger, Eq. endeth in shame powder you'll	
9	W.	Sundials 9-13 U.S.W.B. {10.6 close to correct B. 1870 {10.7 enjoy.	
10	Th.	Where there's marriage without love there'll be love without marriage Now	
11	Fr.	Mrs. Henry VII • Shipwreck 1944 B. 1466, D. 1500 • Boon I., Maine plan	
12	Sa.	Linc. Bdy. $\delta\psi\psi$ Hol. 32 states a suntan.	
13	B	Sex. S. By today bad or good goose will lay Be not	
14	M.	Val. D. Hol. {9.2 downcast, Winter's	
15	Tu.	ψ Stat. in R. A. • ψ Stat. in R.A. • ψ slides {9.1 low {7.7	
16	W.	Do what you should not, {9.1 hear what you would not. {7.8 running	
17	Th.	Auld deer worst in year $\delta\psi\psi$ {9.2 out fast.	
18	Fr.	When befriended remember it when you befriend forget it Not clear,	
19	Sa.	ψ in Copernicus • Lucky {9.5 Apo. • B. 1473 Day {8.5 not	
20	B	Quinqua. S. cloudy, not calm,	
21	M.	$\delta\psi\psi$ • $\delta\psi\psi$ • $\delta\psi\psi$ not rowdy.	
22	Tu.	Mardi. Wash. ψ Stat. in R.A. The rest	
23	W.	Ash W. $\delta\psi\psi$ • ψ Eq. of the year	
24	Th.	St. Matthias $\delta\psi\psi$ curses a fair	
25	Fr.	To err is human • Unlucky Februeer. To repent divine • Day	
26	Sa.	If the hill has on her hat, beware of that. {9.1 Little puffs {9.5	
27	B	1st S. L. Lucky of the white stuff.	
28	M.	Gregory bec. • Merrimac River {9.1 Pope 591 A.D. • ice 30' 1741 {7.9	

Self pity and loneliness are two ugly twins, dismiss one and the other disappears.

1966]

MARCH, THIRD MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	7a. 34	7	5 16	13	2 55	19	0 31	25	1 50						
2	7 11	8	4 52	14	2 31	20	0s.07	26	2 13							
3	6 48	9	4 29	15	2 07	21	0N.15	27	2 36							
4	6 25	10	4 06	16	1 43	22	0 38	28	3 00							
5	6 02	11	3 42	17	1 19	23	1 02	29	3 23							
6	5 39	12	3 18	18	0 55	24	1 26	30	3 47							

○ Full Moon, 6th day, 8 h. 46 m., evening, E.

☾ Last Quarter, 13th day, 7 h. 19 m., evening, E.

● New Moon, 21st day, 11 h. 47 m., evening, E.

☽ First Quarter, 29th day, 3 h. 44 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	Rises h. m.	Key	Sets h. m.	Key	Length of Days h. m.	Sun. East m.	Full Sea. Boston. Morn. h. Eve. h.	☽ Rises h. m.	Key	☽ Sets h. m.	Key	☽ Place	☽ Age	
60	1	Tu.	6 20	K	5 34	G	11 14	3	5½	6	11 ^A _M 09	B	2 ^A _M 10	P	CNC	10
61	2	W.	6 18	K	5 35	G	11 17	4	6½	7	12 ^P _M 06	B	3 16	P	CNC	11
62	3	Th.	6 16	K	5 37	G	11 20	4	7½	8	1 15	B	4 16	P	LEO	12
63	4	Fr.	6 15	K	5 38	H	11 23	4	8½	9	2 32	D	5 06	O	LEO	13
64	5	Sa.	6 13	J	5 39	H	11 26	4	9½	10	3 54	E	5 47	N	VIR	14
65	6	B	6 11	J	5 40	H	11 29	4	10½	11	5 16	G	6 21	L	—	—
66	7	M.	6 10	J	5 41	H	11 32	5	11¼	11¾	6 36	H	6 50	K	VIR	15
67	8	Tu.	6 08	J	5 43	H	11 34	5	—	0	7 53	J	7 16	I	LIB	16
68	9	W.	6 06	J	5 44	H	11 37	5	0½	1	9 09	K	7 42	H	LIB	17
69	10	Th.	6 05	J	5 45	H	11 40	5	1½	1¾	10 24	M	8 09	F	SCO	18
70	11	Fr.	6 03	J	5 46	H	11 43	6	2¼	2¾	11 ^P _M 36	N	8 37	E	SCO	19
71	12	Sa.	6 01	J	5 47	H	11 46	6	3	3½	—	—	9 10	D	SGR	20
72	13	B	6 00	J	5 48	H	11 49	6	4	4½	12 ^A _M 44	O	9 49	C	SGR	21
73	14	M.	5 58	J	5 50	H	11 52	6	5	5½	1 47	P	10 33	B	SGR	22
74	15	Tu.	5 56	J	5 51	H	11 54	7	6	6¾	2 43	P	11 ^A _M 24	B	CAP	23
75	16	W.	5 54	I	5 52	I	11 57	7	7	7¾	3 31	O	12 ^P _M 21	C	CAP	24
76	17	Th.	5 53	I	5 53	I	12 00	7	8	8¾	4 11	O	1 22	C	AQR	25
77	18	Fr.	5 51	I	5 54	I	12 03	8	8¾	9½	4 44	N	2 24	D	AQR	26
78	19	Sa.	5 49	I	5 55	I	12 06	8	9½	10	5 11	M	3 26	F	PSC	27
79	20	B	5 48	I	5 56	I	12 09	8	10¼	10¾	5 35	L	4 28	G	PSC	28
80	21	M.	5 46	I	5 58	I	12 12	8	11	11¼	5 56	K	5 29	H	PSC	29
81	22	Tu.	5 44	I	5 59	I	12 15	9	11½	11¾	6 16	I	6 31	I	ARI	1
82	23	W.	5 42	I	6 00	I	12 18	9	—	0	6 36	H	7 34	J	ARI	2
83	24	Th.	5 41	I	6 01	I	12 20	9	0½	0¾	6 58	G	8 38	L	TAU	3
84	25	Fr.	5 39	I	6 02	I	12 23	10	1	1½	7 21	F	9 45	M	TAU	4
85	26	Sa.	5 37	I	6 03	I	12 26	10	1½	2	7 48	E	10 ^P _M 53	N	TAU	5
86	27	B	5 35	H	6 04	J	12 29	10	2¼	2¾	8 21	C	—	—	G'M	6
87	28	M.	5 34	H	6 06	J	12 32	11	3	3¾	9 03	B	12 ^A _M 01	O	G'M	7
88	29	Tu.	5 32	H	6 07	J	12 35	11	4	4¾	9 55	B	1 07	P	CNC	8
89	30	W.	5 30	H	6 08	J	12 38	11	5	5¾	10 ^A _M 57	B	2 08	P	CNC	9
90	31	Th.	5 28	H	6 09	J	12 41	12	6	6¾	12 ^P _M 09	C	2 ^A _M 59	O	LEO	10



Where are the songs of Spring? Ay, where are they?
 Think not of them, thou hast thy music, too,
 While barred clouds bloom the soft-dying day,
 And touch the stubble-plains with rosy hue.

Keats

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	St. David Hol. Neb. $\delta \Psi \zeta$ {9.2 7.9	Boreas's
2	W.	Runs Ember Hol. Ala. high Day Fla., La., Tex.	uproar-
3	Th.	Canadian geese back in Canada • Skunks emerge {9.8 8.5	ious.
4	Fr.	World Gr. Ember Prayer ♀ El. E. days {10.5 9.1	Lots of
5	Sa.	The Ides Begin Beware of Old Cotind PURIM {10.8 9.8	snow
6	B	2nd S. L. The full worm moon • in Pert $\delta \delta \zeta$	
7	M.	Foots do more hurt in this world than rascals Hol. Calif.	here,
8	Tu.	$\delta \rho \odot \cdot \delta \delta \odot \cdot \odot$ on Eq.	some rain
9	W.	Maple sap • Pancho Villa running N. Mex. 1916	too, we
10	Th.	Mists foretell plentiful year $\delta \rho \odot$ {11.0 10.5	fear.
11	Fr.	♀ Stat. in R.A. • $\delta \Psi \zeta$ Blizzard of 1888	Relax,
12	Sa.	St. Greg. SS President lost—1841 — {10.3 9.0	Max.
13	B	3rd S. L. Pres. Johnson in trouble, 1868	Spring
14	M	Skunks (see pg. 77) mating $\delta \delta \zeta$ {9.2 7.8	brings
15	Tu.	Birds returning ♀ Kides Hol. low Tenn.	wondrous
16	W.	Lowest P.M. high tides (7.6) Mar. 15-16, April 13	things.
17	Th.	St. Pat. $\delta \rho \zeta$ Tides {8.7 7.8	Winter's
18	Fr.	Leonov space acrob. 1965 ♀ Apo. Tides {8.9 8.1	back;
19	Sa.	St. Jos. Swallows return to Capistrano {9.1 8.4	hit the
20	B	4th S. L. Spring begins 8:53 P.M. • enters ♀	
21	M.	$\delta \rho \odot$ Inf. Sun turns North • Beware of accidents	sack.
22	Tu.	Earliest possible Easter date ♀ on Eq. Hol. Okla.	Hey,
23	W.	Concord, N.H. snow depth 34.1"—1916 Tides {9.4 9.1	brother,
24	Th.	Woolly Bear Caterpillars abdicate weather dictatorship 1956	tell
25	Fr.	ARRURG. Lady Hol. Day Md. Tides {9.6 9.1	mother
26	Sa.	Happy the man, he alone who calls today his own Hol. Hawaii	the
27	B	Pass. S. Alaska quake '64 river's a-flood	
28	M.	$\delta \Psi \zeta$ Truth is so divine feed it not to swine	and Sis
29	Tu.	Runs Avoid quarrels high tomorrow	is all mud.
30	W.	Can. Geese arr. Canada $\delta \rho \rho$ Snowflakes also	
31	Th.	Boston 1766 blockaded {9.5 8.4	make nice lakes.

Bart, the large German Shepherd dog who owns me and lives in my house, felt unwell the other night. He said he'd better see his doctor. So off we went.

There were quite a lot of other dogs and people when we arrived. Bart agreed to stay in the car, while I got out and talked with Phyllis, who happens to be owned by Bart's son, Treui (pronounced Troy). Treui was occupied at the moment with winding Phyllis around the hitching post. I released Phyllis. Treui said he'd been attacked by a skunk the previous evening and was here to be freshened up. It seemed a good idea.

Presently I went in and sat in the dogs' reception room. A pearly-grey, fancy-clipped French poodle greeted me. He said he was having trouble getting his coat in shape this spring. But he was especially interested in a six-month-old Great Dane beside me. She was all paws and loose skin to grow into — a lovely fawn color — and confiding. She told me about her sore eye, though she was really more concerned about her friend, a Bassett Hound, who was going to miss her dreadfully.

Doc Fritz said he was ready. Bart accepted his ministrations and agreed it would be best to stay a night or two. He selected his quarters (beside a wise old cat), and waited while they were being prepared with fresh water and newspapers. He said not to worry. He'd let me know. I'm still waiting.

1966]

APRIL, FOURTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
	1		4N.33	7		6 51	13		9 04	19		11 11	25		13 12
	2		4 56	8		7 14	14		9 26	20		11 31	26		13 31
	3		5 20	9		7 36	15		9 47	21		11 52	27		13 51
	4		5 43	10		7 58	16		10 08	22		12 12	28		14 10
	5		6 05	11		8 20	17		10 29	23		12 31	29		14 28
	6		6 28	12		8 42	18		10 50	24		12 52	30		14 47

○ Full Moon, 5th day, 6 h. 14 m., morning, W.

☾ Last Quarter, 12th day, 12 h. 29 m., evening, W.

● New Moon, 20th day, 3 h. 36 m., evening, W.

☽ First Quarter, 27th day, 10 h. 50 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉		☽		Length of Days	Sun Fast	Full Sea, Boston.		☽		☽		Key	☽	☽
			Rises h. m.	Key	Sets h. m.	Key			Morn. h.	Eve. h.	Rises h. m.	Key	Sets h. m.	Key			
91	1	Fr.	5 27	H	6 10	J	12 43	12	7	7 ³ / ₄	1 ^P _M 27	D	3 ^A _M 43	N	LEO	11	
92	2	Sa.	5 25	H	6 11	J	12 46	12	8 ¹ / ₄	8 ³ / ₄	2 47	F	4 18	M	VIR	12	
93	3	B	5 23	H	6 12	J	12 49	12	9 ¹ / ₄	9 ³ / ₄	4 06	G	4 48	K	VIR	13	
94	4	M.	5 22	H	6 13	J	12 52	13	10	10 ¹ / ₂	5 24	I	5 14	J	LIB	14	
95	5	Tu.	5 20	H	6 15	J	12 55	13	11	11 ¹ / ₄	6 41	J	5 40	H	—	—	
96	6	W.	5 18	H	6 16	J	12 58	13	11 ³ / ₄	—	7 58	L	6 06	G	LIB	15	
97	7	Th.	5 16	H	6 17	J	13 00	14	0	0 ¹ / ₂	9 13	M	6 33	E	SCO	16	
98	8	Fr.	5 15	G	6 18	K	13 03	14	1	1 ¹ / ₂	10 26	N	7 04	D	SCO	17	
99	9	Sa.	5 13	G	6 19	K	13 06	14	1 ³ / ₄	2 ¹ / ₄	11 ^P _M 34	O	7 42	C	SGR	18	
100	10	B	5 11	G	6 20	K	13 09	14	2 ¹ / ₂	3 ¹ / ₄	—	—	8 25	B	SGR	19	
101	11	M.	5 10	G	6 21	K	13 11	15	3 ¹ / ₂	4	12 ^A _M 35	P	9 15	B	CAP	20	
102	12	Tu.	5 08	G	6 22	K	13 14	15	4 ¹ / ₄	5	1 27	P	10 11	B	CAP	21	
103	13	W.	5 06	G	6 24	K	13 17	15	5 ¹ / ₄	6	2 10	O	11 ^A _M 11	C	AQR	22	
104	14	Th.	5 05	G	6 25	K	13 20	15	6 ¹ / ₄	7	2 45	N	12 ^P _M 13	D	AQR	23	
105	15	Fr.	5 03	G	6 26	K	13 23	16	7 ¹ / ₄	8	3 15	M	1 15	E	AQR	24	
106	16	Sa.	5 02	G	6 27	K	13 25	16	8 ¹ / ₄	8 ³ / ₄	3 40	L	2 17	F	PSC	25	
107	17	B	5 00	G	6 28	K	13 28	16	9	9 ¹ / ₂	4 01	K	3 19	G	PSC	26	
108	18	M.	4 58	G	6 29	K	13 31	16	9 ³ / ₄	10	4 21	J	4 21	I	ARI	27	
109	19	Tu.	4 57	G	6 30	K	13 33	17	10 ¹ / ₄	10 ¹ / ₂	4 42	I	5 24	J	ARI	28	
110	20	W.	4 55	F	6 32	L	13 36	17	11	11 ¹ / ₄	5 03	G	6 28	K	ARI	29	
111	21	Th.	4 54	F	6 33	L	13 39	17	11 ¹ / ₂	11 ³ / ₄	5 25	F	7 36	L	TAU	1	
112	22	Fr.	4 52	F	6 34	L	13 41	17	—	0 ¹ / ₄	5 51	E	8 44	N	TAU	2	
113	23	Sa.	4 51	F	6 35	L	13 44	17	0 ¹ / ₂	1	6 23	D	9 54	O	G'M	3	
114	24	B	4 49	F	6 36	L	13 47	18	1	1 ³ / ₄	7 01	C	11 ^P _M 02	P	G'M	4	
115	25	M.	4 48	F	6 37	L	13 49	18	2	2 ¹ / ₂	7 50	B	—	—	CNC	5	
116	26	Tu.	4 46	F	6 38	L	13 52	18	2 ³ / ₄	3 ¹ / ₂	8 49	B	12 ^A _M 03	P	CNC	6	
117	27	W.	4 45	F	6 39	L	13 55	18	3 ³ / ₄	4 ¹ / ₂	9 58	C	12 57	P	LEO	7	
118	28	Th.	4 43	F	6 41	L	13 57	18	4 ³ / ₄	5 ¹ / ₂	11 ^A _M 11	D	1 42	O	LEO	8	
119	29	Fr.	4 42	F	6 42	L	14 00	18	5 ³ / ₄	6 ¹ / ₂	12 ^P _M 28	E	2 19	M	VIR	9	
120	30	Sa.	4 41	F	6 43	L	14 02	19	7	7 ¹ / ₂	1 ^P _M 45	G	2 ^A _M 50	L	VIR	10	

1966]

MAY, FIFTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	15N.05	7	16 49	13	18 23	19	19 46	25	20 57						
	2	15 23	8	17 06	14	18 38	20	19 59	26	21 08						
	3	15 41	9	17 22	15	18 52	21	20 11	27	21 18						
	4	15 58	10	17 38	16	19 06	22	20 23	28	21 28						
	5	16 15	11	17 53	17	19 20	23	20 35	29	21 38						
	6	16 32	12	18 08	18	19 33	24	20 46	30	21 46						

- Full Moon, 4th day, 4 h. 01 m., evening, E.
- ☾ Last Quarter, 12th day, 6 h. 19 m., morning, W.
- New Moon, 20th day, 4 h. 43 m., morning, E.
- ☽ First Quarter, 27th day, 3 h. 51 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	☉ Key	☉ Sets h. m.	☉ Key	Length of Days h. m.	Sun Fast m.	Full Sea, Boston. Morn. h. Eve. h.	☾ Rises h. m.	☾ Key	☾ Sets h. m.	☾ Key	☾ Place	☾ Age
I21	1	B	4 39	F	6 44	L	14 05	19	8	8 ^P ₂	3 ^P ₀₂	H	3 ^A ₁₆	J	LIB 11
I22	2	M.	4 38	F	6 45	M	14 07	19	9	9 ¹ ₄	4 17	J	3 ^A ₄₀	I	LIB 12
I23	3	Tu.	4 37	E	6 46	M	14 10	19	9 ³ ₄	10 ¹ ₄	5 33	K	4 06	H	SCO 13
I24	4	W.	4 35	E	6 47	M	14 12	19	10 ³ ₄	11	6 48	M	4 32	F	SCO 14
I25	5	Th.	4 34	E	6 48	M	14 14	19	11 ¹ ₂	11 ³ ₄	8 03	N	5 01	E	— —
I26	6	Fr.	4 33	E	6 49	M	14 17	19	—	0 ¹ ₄	9 15	O	5 34	D	SGR 15
I27	7	Sa.	4 31	E	6 51	M	14 19	19	0 ¹ ₂	1	10 21	P	6 15	C	SGR 16
I28	8	B	4 30	E	6 52	M	14 21	19	1 ¹ ₄	2	11 ^P ₁₈	P	7 03	B	CAP 17
I29	9	M.	4 29	E	6 53	M	14 24	19	2	2 ³ ₄	—	—	7 58	B	CAP 18
I30	10	Tu.	4 28	E	6 54	M	14 26	19	3	3 ¹ ₂	12 ^A _{M06}	O	8 58	C	CAP 20
I31	11	W.	4 27	E	6 55	M	14 28	19	3 ³ ₄	4 ¹ ₂	12 45	O	10 00	D	AQR 21
I32	12	Th.	4 26	E	6 56	M	14 30	19	4 ³ ₄	5 ¹ ₂	1 17	N	11 ^A _{M03}	E	AQR 22
I33	13	Fr.	4 25	E	6 57	M	14 32	20	5 ¹ ₂	6 ¹ ₄	1 43	M	12 ^P _{M05}	F	PSC 23
I34	14	Sa.	4 23	E	6 58	M	14 35	20	6 ¹ ₂	7	2 05	L	1 07	G	PSC 24
I35	15	B	4 22	E	6 59	M	14 37	20	7 ¹ ₂	8	2 26	J	2 09	H	PSC 25
I36	16	M.	4 21	E	7 00	N	14 39	19	8 ¹ ₄	8 ¹ ₂	2 46	I	3 11	I	ARI 26
I37	17	Tu.	4 20	D	7 01	N	14 41	19	9	9 ¹ ₄	3 06	H	4 14	K	ARI 27
I38	18	W.	4 20	D	7 02	N	14 43	19	9 ³ ₄	10	3 28	G	5 21	L	TAU 28
I39	19	Th.	4 19	D	7 03	N	14 45	19	10 ¹ ₂	10 ¹ ₂	3 53	E	6 30	M	TAU 29
I40	20	Fr.	4 18	D	7 04	N	14 47	19	11 ¹ ₄	11 ¹ ₄	4 22	D	7 41	O	G'M 0
I41	21	Sa.	4 17	D	7 05	N	14 48	19	—	0	4 59	C	8 51	P	G'M 1
I42	22	B	4 16	D	7 06	N	14 50	19	0	0 ¹ ₂	5 45	B	9 57	P	CNC 2
I43	23	M.	4 15	D	7 07	N	14 52	19	0 ³ ₄	1 ¹ ₂	6 42	B	10 55	P	CNC 3
I44	24	Tu.	4 14	D	7 08	N	14 54	19	1 ¹ ₂	2 ¹ ₄	7 49	B	11 ^P _{M42}	O	LEO 5
I45	25	W.	4 14	D	7 09	N	14 55	19	2 ¹ ₂	3 ¹ ₄	9 02	C	—	—	LEO 6
I46	26	Th.	4 13	D	7 10	N	14 57	19	3 ¹ ₂	4 ¹ ₄	10 17	E	12 ^A _{M22}	N	LEO 7
I47	27	Fr.	4 12	D	7 11	N	14 58	19	4 ¹ ₂	5 ¹ ₄	11 ^A _{M34}	F	12 53	L	VIR 8
I48	28	Sa.	4 12	D	7 12	N	15 00	19	5 ¹ ₂	6 ¹ ₄	12 ^P _{M49}	H	1 20	K	VIR 9
I49	29	B	4 11	D	7 12	N	15 01	18	6 ¹ ₂	7 ¹ ₄	2 03	I	1 45	J	LIB 10
I50	30	M.	4 10	D	7 13	N	15 03	18	7 ¹ ₂	8	3 16	K	2 09	H	LIB 11
I51	31	Tu.	4 10	D	7 14	N	15 04	18	8 ¹ ₂	9	4 ^P _{M29}	L	2 ^A _{M33}	G	SCO 12

MAY hath 31 days.

[1966



At last young April, ever frail and fair,
Woo'd by her play-mate with the golden hair,
In tears and blushes, has sighed herself away,
Hidden her cheek beneath the flowers of May.

Holmes, 1852

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	B	Philip & James Law Day	Let's
2	M.	Con Tornadoes	just say
3	Tu.	Eq. midwest	it's now
4	W.	Invention of cross day	May.
5	Th.	The full Flower Moon	Sprinkles
6	Fr.	Now graft fruit trees	a
7	Sa.	Where ignorance is bliss 't is folly to be wise	mickle.
8	B	Kentucky Derby Va. Gold Cup	Tweet,
9	M.	4th a. E. Mother's Day	how warm,
10	Tu.	Fruit trees blossom (8-25) Tanana R. ice breaks	how sweet.
11	W.	The three chilly saints days	Coolish and
12	Th.	{ Pankratus Servatus Liberatus	mulish.
13	Fr.	Passover inst. 1491	Driz-
14	Sa.	Of Saturday's tricks beware in 1966	zles, fizzles,
15	B	Rog. S. 8hC	piddles
16	M.	on Haddam, Ct. Eq. quake 1816	and
17	Tu.	Wisdom is nearer when we stoop than when we soar.	widdles.
18	W.	New brooms sweep clean but old ones know the corners.	Never
19	Th.	Ascension Day Lucky day	complain
20	Fr.	Annular Krakatoa Hol. eclipse 1883	about
21	Sa.	Armed Conn. Puritans (1666) Forces owned Newark, Ohio	too much
22	B	1sta. A. 8hC	rain.
23	M.	Stat. in R.A. runs high	Heavy
24	Tu.	Shebnoth H.M.S. Hood sunk, 1941	frost,
25	W.	English Derby Bear got stung 1965	all is
26	Th.	Beware of accidents all day tomorrow	lost.
27	Fr.	Sup. in Perl. 8hC	Wise
28	Sa.	He who wishes to thrive lets spiders go alive	fellas
29	B	Whit. Pent. on Eq. 1966	carry
30	M.	Memorial Day	umbrellas.
31	Tu.	Battle of Jutland 1916 (greatest ever)	

I can think my own thoughts, alone on my hilltop orchard this May morning. My trees are in full blow, each blossom a chalice, each tight cluster secure as if gathered forever. The aisles of pink and white hang suspended, floating, divorced from trunk and root. Their own glory for a little while. At the orchard's end the Temple hills are framed, strangely close and moving, almost, with the moving of the placid clouds — their shadows floating over the grey slopes. Hills and clouds are sharp against the ultimate blue of the sky.

There are robins and a cluster of blackbirds and a pair of blue birds. A little breeze nods the blossoms and wafts their scent. The petals are still wet with dew, but bees are busy. Their droning is insistent and steady. The air is vibrant.

And I think this: all my senses know this morning and respond. But I am aware as never before that this is a world of color, the pattern and shapes of color — and that color is in itself creation and meaning. Beyond this there is an extra sense, a perception that this beauty and perfection is of its own being; that though I have planted this orchard and tended it these many years, I have at this moment nothing at all to do with its perfection. I am a stranger in my own orchard, but a grateful and humble one; grateful that I can be here—that I can share this morning—that I am.

1966]

JUNE, SIXTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		Days.		Days.		Days.		Days.		Days.	
	0	/	0	/	0	/	0	/	0	/	0	/
1	22	N.04	7	22 45	13	23 13	19	23 26	25	23 24	23	24
2	22	11	8	22 51	14	23 16	20	23 26	26	23 22	23	22
3	22	19	9	22 56	15	23 19	21	23 27	27	23 20	23	20
4	22	26	10	23 01	16	23 21	22	23 27	28	23 17	23	17
5	22	33	11	23 05	17	23 23	23	23 26	29	23 14	23	14
6	22	39	12	23 09	18	23 25	24	23 25	30	23 11	23	11

○ Full Moon, 3rd day, 2 h. 41 m., morning, W.

☾ Last Quarter, 10th day, 11 h. 59 m., evening, E.

● New Moon, 18th day, 3 h. 09 m., evening, W.

☽ First Quarter, 25th day, 8 h. 23 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☀ Rises h. m.	☀ Key	☀ Sets h. m.	☀ Key	☀ Length of Days h. m.	☀ Sun Fast m.	☀ Full Sea, Boston. Morn Eve. h. h.	☾ Rises h. m.	☾ Key	☾ Sets h. m.	☾ Key	☾ Place	☾ Age	
152	1	W.	4 10	D	7 15	N	15 05	18	9 $\frac{1}{2}$	9 $\frac{3}{4}$	5 $\frac{P}{M}$ 43	M	3 $\frac{A}{M}$ 00	F	SCO	13
153	2	Th.	4 09	D	7 16	O	15 07	18	10 $\frac{1}{2}$	10 $\frac{1}{2}$	6 55	N	3 31	D	SGR	14
154	3	Fr.	4 09	C	7 16	O	15 08	18	11 $\frac{1}{4}$	11 $\frac{1}{2}$	8 04	O	4 09	C	—	—
155	4	Sa.	4 08	C	7 17	O	15 09	18	—	0	9 05	P	4 52	B	SGR	15
156	5	B	4 08	C	7 18	O	15 10	17	0	0 $\frac{3}{4}$	9 58	P	5 45	B	CAP	16
157	6	M.	4 08	C	7 19	O	15 11	17	1	1 $\frac{1}{2}$	10 41	O	6 43	B	CAP	17
158	7	Tu.	4 07	C	7 19	O	15 12	17	1 $\frac{1}{2}$	2 $\frac{1}{4}$	11 16	N	7 46	C	AQR	18
159	8	W.	4 07	C	7 20	O	15 13	17	2 $\frac{1}{2}$	3	11 $\frac{P}{M}$ 44	M	8 49	D	AQR	19
160	9	Th.	4 07	C	7 20	O	15 14	17	3 $\frac{1}{4}$	3 $\frac{3}{4}$	—	—	9 52	E	AQR	20
161	10	Fr.	4 07	C	7 21	O	15 14	16	4	4 $\frac{3}{4}$	12 $\frac{M}{M}$ 09	L	10 54	F	PSC	21
162	11	Sa.	4 07	C	7 22	O	15 15	16	5	5 $\frac{1}{2}$	12 30	K	11 $\frac{A}{M}$ 56	G	PSC	22
163	12	B	4 06	C	7 22	O	15 16	16	5 $\frac{3}{4}$	6 $\frac{1}{4}$	12 49	J	12 $\frac{P}{M}$ 57	I	ARI	23
164	13	M.	4 06	C	7 23	O	15 16	16	6 $\frac{1}{2}$	7	1 10	I	1 59	J	ARI	24
165	14	Tu.	4 06	C	7 23	O	15 17	16	7 $\frac{1}{2}$	8	1 31	H	3 03	K	TAU	25
166	15	W.	4 06	C	7 23	O	15 17	15	8 $\frac{1}{4}$	8 $\frac{1}{2}$	1 53	F	4 11	L	TAU	26
167	16	Th.	4 06	C	7 24	O	15 18	15	9	9 $\frac{1}{2}$	2 20	E	5 21	N	TAU	27
168	17	Fr.	4 06	C	7 24	O	15 18	15	10	10	2 53	D	6 33	O	G'M	28
169	18	Sa.	4 06	C	7 25	O	15 18	15	10 $\frac{3}{4}$	11	3 36	C	7 43	P	G'M	0
170	19	B	4 06	C	7 25	O	15 18	15	11 $\frac{1}{2}$	11 $\frac{3}{4}$	4 30	B	8 45	P	CNC	1
171	20	M.	4 07	C	7 25	O	15 19	14	0	0 $\frac{1}{4}$	5 35	B	9 38	P	CNC	2
172	21	Tu.	4 07	C	7 25	O	15 19	14	0 $\frac{1}{2}$	1 $\frac{1}{4}$	6 48	C	10 21	N	LEO	3
173	22	W.	4 07	C	7 26	O	15 19	14	1 $\frac{1}{2}$	2	8 06	D	10 56	M	LEO	4
174	23	Th.	4 07	C	7 26	O	15 18	14	2 $\frac{1}{4}$	3	9 23	F	11 24	L	VIR	5
175	24	Fr.	4 07	C	7 26	O	15 18	13	3 $\frac{1}{4}$	4	10 39	G	11 $\frac{P}{M}$ 50	J	VIR	6
176	25	Sa.	4 08	C	7 26	O	15 18	13	4 $\frac{1}{4}$	4 $\frac{3}{4}$	11 $\frac{A}{M}$ 53	H	—	—	LIB	7
177	26	B	4 08	C	7 26	O	15 18	13	5 $\frac{1}{4}$	5 $\frac{3}{4}$	1 $\frac{P}{M}$ 05	J	12 $\frac{A}{M}$ 14	I	LIB	8
178	27	M.	4 09	C	7 26	O	15 17	13	6 $\frac{1}{4}$	6 $\frac{3}{4}$	2 18	K	12 37	G	SCO	9
179	28	Tu.	4 09	C	7 26	O	15 17	13	7 $\frac{1}{4}$	7 $\frac{3}{4}$	3 30	M	1 03	F	SCO	10
180	29	W.	4 09	C	7 26	O	15 17	12	8 $\frac{1}{4}$	8 $\frac{1}{2}$	4 42	N	1 32	D	SGR	11
181	30	Th.	4 10	C	7 26	O	15 17	12	9 $\frac{1}{4}$	9 $\frac{1}{2}$	5 $\frac{P}{M}$ 51	O	2 $\frac{A}{M}$ 06	C	SGR	12



The cock is crowing, the stream is flowing,
The small birds twitter, the lake doth glitter,
The green field sleeps in the sun.
Forty cattle are feeding — like one.

Wordsworth

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	W.	Nicomede $\delta\Psi\text{C}$ Ember Day	Only a
2	Th.	N.H. turtles lay eggs	loon
3	Fr.	Invasion full moon	wants
4	Sa.	Ember Day	to spoon
5	B	Trin. S. C rides low	under this
6	M.	D-Day 1944	Tides $\{10.2$
7	Tu.	Earliest sunrises	Tides $\{9.9$
8	W.	Snowed 1816 see page 46	Unlucky day $\{9.5$
9	Th.	Corpus Christi	Laurel and cranberries
10	Fr.	C in Apo.	Beware tomorrow
11	Sa.	St. Barn. $\delta\text{Y}\text{L}$	now in bloom
12	B	2nda. P . C on Eq.	now in bloom $\{8.5$
13	M.	V. Mary D. A. D. 40	Tides $\{8.2$
14	Tu.	Flag Day	Roman rep. B. C. 510
15	W.	$\delta\text{Q}\text{C}$	Benj. Franklin's etc. kite 1752
16	Th.	Those with elbow sharp	will have cross words 2 out of 3.
17	Fr.	Bunker Hill	Sacred Heart
18	Sa.	Longest days 15.19 (20-22)	Little pot, soon hot $\{8.9$
19	B	2nda. T .	Fathers' Day C runs high
20	M.	Latest sunsets 7:26 (22-Jul. 1)	Hol. W. Va. Tides $\{9.2$
21	Tu.	Summer Begins 3:33 P.M.	en-ters $\{10.9$
22	W.	Witches around	Organic Act. Day, Vir. Isl. C in
23	Th.	In taking too much care ofst we spoil the whole affair.	John Bapt. born $\delta\text{C}\text{C}$ Tides $\{10.7$
24	Fr.	John Bapt. born	Hedges between keep friendships green $\{9.5$
25	Sa.	C on Eq.	Hedges between keep friendships green $\{10.8$
26	B	4tha. P .	Pizarro D. 1541 Tides $\{9.6$
27	M.	Bad weather always looks worse through a window	$\{9.8$
28	Tu.	$\delta\text{P}\text{C}$	Caxton, ptr. died 1491 Tides $\{10.1$
29	W.	St. Peter & St. Paul	Tides $\{9.1$
30	Th.	Y Gr. El. E.	Delmarva Fest.—7/2 Tides $\{10.3$

We are arrested by this statement from The American Tree Farmer: "The Federal Government now owns one out of every three acres of land (769,900,000 acres) in the nation and is acquiring more all the time." The statement was made to show that the Government owns more land (in the name of outdoor recreation) than it should, and by so doing forces fewer and fewer landowners to pay more and more taxes. Without debating the merits of this contention, we feel that if the Federal Government is ever to acquire more land it must do so now; and we believe it rightly does so for the purposes of recreation and conservation. The need and the deed must be one. But we believe the cost of this — and the need is for all of us — should be shared by all of us. The fact that there will be constantly more of us, should make more equitable the burden of private ownership.

Our lands have seen many uses since their original virgin being: their uses by homesteaders, the cattle and sheep ranchers, the forest industries, the wheat and fruit growers; the coal, the oil, the railway interests; and more recently, and most importantly, our uses of them for recreation and conservation.

It is well our President understands the changing needs of land when he recommends a long-term retirement of surplus crop acres (some 50 million) to be used in great part for recreation, conservation, and "the perpetuation of beauty."

Friday's moon, come when it will, comes too soon [see June 3 above]

1966]

JULY, SEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	23 ^N .07	7	22 35	13	21 50	19	20 51	25	19 39						
	2	23 02	8	22 29	14	21 41	20	20 40	26	19 26						
	3	22 58	9	22 22	15	21 32	21	20 28	27	19 13						
	4	22 53	10	22 14	16	21 22	22	20 17	28	18 59						
	5	22 47	11	22 07	17	21 12	23	20 04	29	18 45						
	6	22 42	12	21 59	18	21 02	24	19 52	30	18 31						

- Full Moon, 2nd day, 2 h. 37 m., evening, E.
- ☾ Last Quarter, 10th day, 4 h. 43 m., evening, W.
- New Moon, 17th day, 11 h. 31 m., evening, E
- ☽ First Quarter, 24th day, 2 h. 00 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	Key	☉ Sets h. m.	Key	Length of Days h. m.	Sun Fast m.	Full Sea. Boston. Morn. h.	Eve. h.	☾ Rises h. m.	Key	☾ Sets h. m.	Key	☾ Place	Age
182	1	Fr.	4 10	C	7 26	O	15 15	12	10	10 ¹ / ₄	6 ^P _M 54	P	2 ^A _M 48	C	CAP	13
183	2	Sa.	4 11	C	7 25	O	15 14	12	11	11	7 50	P	3 36	B	—	—
184	3	B	4 11	C	7 25	O	15 14	12	11 ³ / ₄	11 ³ / ₄	8 37	O	4 31	B	CAP	14
185	4	M.	4 12	C	7 25	O	15 13	11	—	0 ¹ / ₂	9 14	O	5 33	C	CAP	15
186	5	Tu.	4 13	C	7 25	O	15 12	11	0 ¹ / ₂	1	9 45	N	6 36	D	AQR	16
187	6	W.	4 13	C	7 25	O	15 11	11	1 ¹ / ₄	1 ³ / ₄	10 11	M	7 40	E	AQR	17
188	7	Th.	4 14	C	7 24	O	15 10	11	2	2 ¹ / ₂	10 33	L	8 42	F	PSC	19
189	8	Fr.	4 14	C	7 24	O	15 09	11	2 ¹ / ₂	3 ¹ / ₄	10 53	J	9 44	G	PSC	20
190	9	Sa.	4 15	C	7 23	O	15 08	11	3 ¹ / ₂	4	11 12	I	10 45	H	ARI	21
191	10	B	4 16	C	7 23	N	15 07	11	4 ¹ / ₄	4 ³ / ₄	11 33	H	11 ^A _M 45	I	ARI	22
192	11	M.	4 17	D	7 22	N	15 06	10	5	5 ¹ / ₂	11 ^P _M 54	G	12 ^P _M 48	K	ARI	23
193	12	Tu.	4 17	D	7 22	N	15 05	10	6	6 ¹ / ₄	—	—	1 53	L	TAU	24
194	13	W.	4 18	D	7 21	N	15 03	10	6 ³ / ₄	7	12 ^A _M 19	F	3 01	M	TAU	25
195	14	Th.	4 19	D	7 21	N	15 02	10	7 ³ / ₄	8	12 49	D	4 11	O	G'M	26
196	15	Fr.	4 20	D	7 20	N	15 00	10	8 ¹ / ₂	8 ³ / ₄	1 27	C	5 22	P	G'M	27
197	16	Sa.	4 21	D	7 20	N	14 59	10	9 ¹ / ₂	9 ³ / ₄	2 15	B	6 28	P	CNC	28
198	17	B	4 21	D	7 19	N	14 57	10	10 ¹ / ₄	10 ¹ / ₂	3 15	B	7 27	P	CNC	1
199	18	M.	4 22	D	7 18	N	14 56	10	11	11 ¹ / ₂	4 27	B	8 15	O	LEO	2
200	19	Tu.	4 23	D	7 17	N	14 54	10	—	0	5 45	C	8 55	N	LEO	3
201	20	W.	4 24	D	7 17	N	14 52	9	0 ¹ / ₄	0 ³ / ₄	7 06	E	9 26	L	VIR	4
202	21	Th.	4 25	D	7 16	N	14 51	9	1	1 ³ / ₄	8 25	F	9 52	K	VIR	5
203	22	Fr.	4 26	D	7 15	N	14 49	9	2	2 ¹ / ₂	9 42	H	10 17	I	LIB	6
204	23	Sa.	4 27	D	7 14	N	14 47	9	3	3 ¹ / ₂	10 ^A _M 56	J	10 42	H	LIB	7
205	24	B	4 28	D	7 13	N	14 45	9	4	4 ¹ / ₂	12 ^P _M 09	K	11 07	F	SCO	8
206	25	M.	4 29	D	7 12	N	14 43	9	5	5 ¹ / ₂	1 21	L	11 ^P _M 34	E	SCO	9
207	26	Tu.	4 30	D	7 11	N	14 41	9	6	6 ¹ / ₂	2 33	N	—	—	SGR	10
208	27	W.	4 31	D	7 10	N	14 40	9	7	7 ¹ / ₂	3 42	O	12 ^A _M 07	D	SGR	11
209	28	Th.	4 32	D	7 09	M	14 38	9	8	8 ¹ / ₂	4 47	O	12 45	C	SGR	12
210	29	Fr.	4 33	E	7 08	M	14 36	9	9	9 ¹ / ₄	5 44	P	1 31	B	CAP	13
211	30	Sa.	4 34	E	7 07	M	14 33	9	10	10	6 34	P	2 24	B	CAP	14
212	31	B	4 35	E	7 06	M	14 31	9	10 ³ / ₄	10 ³ / ₄	7 ^P _M 14	O	3 ^A _M 23	C	AQR	15



Wonderous truths, and manifold as wonderous,
 God hath written in those stars above;
 But not less in the bright flowerets under us
 Stands the revelation of his love.

Longfellow

D.M. D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1 Fr.	Domlnlon Somme { 8.9 Day Bat. 1916 { 10.4	Crows on
2 Sa.	The hot full moon, rides low • Visit. of Mary	fence,
3 B	4th a. T. Cervera's fleet destroyed 1898	rain goes
4 M.	Ind. Day Fast of Tammuz ⊕ In Aph.	hence.
5 Tu.	♁☉ Benign & peaceful { 10.0 Many a man's tongue { 8.6	Best for
6 W.	has broken his nose { 9.8 Frances Cn . . . { 8.6	vacation
7 Th.	Cabrlnl Apo. { 8.5 and recreation	
8 Fr.	U.S. occupied Snow and frosts { 9.2 Iceland 1941 New Eng. 1816 { 8.5	
9 Sa.	on Eq. ♁♁ A day of discord Tides { 8.8 and	
10 B	6th a. P. Cambrldge, Mass. whirlwind 1761	peregrination.
11 M.	We choose not 'tween good & bad but 'tween bad and worse	
12 Tu.	Stat. Disuse is the sister of abuse	In a car
13 W.	In R.A. Lucky • Hol. day • Tenn.	or cellar
14 Th.	Bastille Day 109.8 deg. below Antarctic 1963	you're
15 Fr.	St. Swithin runs high ♁♀ { 9.8 Bering dlsc. Alaska 1741 ♁♁ Tides { 10.0	safer
16 Sa.	♁♁ Tides { 8.6 When in doubt do nought	by far.
17 B	6th a. T. Sweater weather.	
18 M.	Guests see more in an hour than the host sees in a year	
19 Tu.	in Perl. day Lucky Tides { 9.7	Sou'wester
20 W.	St. Margaret Dragons beware • Unlucky day	for
21 Th.	♁♁ Sundlals 9 min. off { 11.3 { 10.2	your siesta.
22 Fr.	M. Magdalene on Eq. { 11.0 { 10.3	Sunny and
23 Sa.	Collect med. herbs • Dog days begin (25th)	hot; just
24 B	3th a. P. 1st. ilc. nucl. fatality, 1964 • Hol. Utah	what
25 M.	St. James Fast of Av. ♁♁ you bought.	
26 Tu.	St. Anne Well begun 's half done Tides { 8.9 { 10.0	Better
27 W.	Seven sleepers • Hurricane Season	to be soaked
28 Th.	♁♀ Inf. Ponles penned Assateague, Va.	than
29 Fr.	rides low Painting the pump don't clear the well { 8.4 { 10.0	to
30 Sa.	Massacre N.O. 1866 • Lucky day Tides { 8.5 { 10.0	be
31 B	5th a. T. Ranger moon photos, 1964	croaked.

Sometimes as I drive this familiar road, I forget the imperative jots of time. I sing the song of the road. My tires hum it; the road flows into me, and itself sings the song. Its little world sweeps past.

Under the hills it holds to unchanged contours, and twists with the rights of ancient walls and fences. The narrows of the forbidding swamps is causeway now, but the site of the old crossing still. In the swamp's wilderness blackbirds bobble and gossip to themselves and the road. Ducks are etched on the hill sky, and the mysterious creatures of the swamp live out their lives in intimate solitude.

But after we cross the stone bridge with its sign 'No Fishing From This Bridge' — and the small boys fishing from the bridge — the road loops from town to little town. The song of the road is best here at mid-morning, for then it is a mother's shopping road, a bread truck road, a road given to the quiet busyness of town folks — a road not yet saddened to the strange, forsaken stretch where nothing, inexplicably, seems ever to have thrived. Here the ghostly gas station, whose owner, quixotically, gave away with each ten gallons one of his own dreadful paintings; the defunct restaurant; the broken orchard and fallen barn; the deserted summer hotel; and a little gnome of a man, old as time, standing with a rake in the weed-grown drive. But then up the long hill — and the new, bright city beneath. A glad song at the end of the road.

1966]

AUGUST, EIGHTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /																																													
	1	18	N.01	7	16 25	13	14 40	19	12 46	25	10 45	2	17 46	8	16 08	14	14 22	20	12 27	26	10 25	3	17 30	9	15 51	15	14 03	21	12 07	27	10 04	4	17 14	10	15 34	16	13 44	22	11 47	28	9 42	5	16 58	11	15 16	17	13 25	23	11 26	29	9 21	6	16 42	12	14 58	18	13 06	24	11 06	30

○ Full Moon, 1st day, 4 h. 06 m., morning, W.

☾ Last Quarter, 9th day, 7 h. 56 m., morning, W.

● New Moon, 16th day, 6 h. 48 m., morning, E.

☽ First Quarter, 22nd day, 10 h. 02 m., evening, W.

○ Full Moon, 30th day, 7 h. 14 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	Key	☉ Sets h. m.	Key	Length of Days h. m.	Sun Fast m.	Full Sea, Boston. Morn. h. Eve. h.	☽ Rises h. m.	Key	☽ Sets h. m.	Key	☽ Place	☽ Age
213	1	M.	4 36	E	7 05	M	14 29	9	11 $\frac{1}{4}$ 11 $\frac{1}{2}$	7 $\frac{P}{M}$ 47	N	4 $\frac{A}{M}$ 26	C	—	—
214	2	Tu.	4 37	E	7 04	M	14 27	10	— 0	8 14	M	5 30	D	AQR	16
215	3	W.	4 38	E	7 02	M	14 25	10	0 0 $\frac{1}{2}$	8 36	L	6 32	F	PSC	17
216	4	Th.	4 39	E	7 01	M	14 23	10	0 $\frac{3}{4}$ 1 $\frac{1}{4}$	8 57	K	7 34	G	PSC	18
217	5	Fr.	4 40	E	7 00	M	14 20	10	1 $\frac{1}{2}$ 2	9 17	J	8 35	H	PSC	19
218	6	Sa.	4 41	E	6 59	M	14 18	10	2 2 $\frac{1}{2}$	9 36	H	9 35	I	ARI	20
219	7	B	4 42	E	6 57	M	14 16	10	2 $\frac{3}{4}$ 3 $\frac{1}{4}$	9 57	G	10 37	J	ARI	21
220	8	M.	4 43	E	6 56	M	14 13	10	3 $\frac{1}{2}$ 4	10 19	F	11 $\frac{A}{M}$ 40	L	TAU	22
221	9	Tu.	4 44	E	6 55	M	14 11	10	4 $\frac{1}{2}$ 4 $\frac{3}{4}$	10 46	E	12 $\frac{P}{M}$ 45	M	TAU	23
222	10	W.	4 45	E	6 53	M	14 08	10	5 $\frac{1}{4}$ 5 $\frac{1}{2}$	11 $\frac{P}{M}$ 19	C	1 53	N	TAU	24
223	11	Th.	4 46	F	6 52	L	14 06	11	6 $\frac{1}{4}$ 6 $\frac{1}{2}$	—	—	3 03	O	G'M	25
224	12	Fr.	4 47	F	6 51	L	14 04	11	7 7 $\frac{1}{2}$	12 $\frac{A}{M}$ 01	B	4 10	P	G'M	26
225	13	Sa.	4 48	F	6 49	L	14 01	11	8 8 $\frac{1}{2}$	12 55	B	5 11	P	CNC	27
226	14	B	4 49	F	6 48	L	13 59	11	9 9 $\frac{1}{4}$	2 01	B	6 04	O	CNC	28
227	15	M.	4 50	F	6 46	L	13 56	11	10 10 $\frac{1}{4}$	3 16	C	6 47	N	LEO	29
228	16	Tu.	4 51	F	6 45	L	13 54	11	10 $\frac{3}{4}$ 11	4 38	D	7 22	K	LEO	0
229	17	W.	4 52	F	6 44	L	13 51	12	11 $\frac{1}{2}$ —	6 00	F	7 52	J	VIR	1
230	18	Th.	4 53	F	6 42	L	13 48	12	0 0 $\frac{1}{2}$	7 21	G	8 18	H	VIR	2
231	19	Fr.	4 54	F	6 40	L	13 46	12	0 $\frac{3}{4}$ 1 $\frac{1}{4}$	8 38	I	8 43	G	LIB	3
232	20	Sa.	4 55	F	6 39	L	13 43	12	1 $\frac{3}{4}$ 2 $\frac{1}{4}$	9 55	J	9 09	E	LIB	4
233	21	B	4 57	F	6 37	L	13 41	13	2 $\frac{1}{2}$ 3	11 $\frac{A}{M}$ 10	L	9 36	D	SCO	5
234	22	M.	4 58	F	6 36	L	13 38	13	3 $\frac{1}{2}$ 4	12 $\frac{P}{M}$ 23	M	10 07	C	SCO	6
235	23	Tu.	4 59	F	6 34	K	13 35	13	4 $\frac{1}{2}$ 5	1 35	N	10 44	B	SGR	7
236	24	W.	5 00	G	6 32	K	13 33	13	5 $\frac{1}{2}$ 6	2 41	O	11 $\frac{P}{M}$ 27	B	SGR	9
237	25	Th.	5 01	G	6 31	K	13 30	14	6 $\frac{3}{4}$ 7	3 42	P	—	—	CAP	10
238	26	Fr.	5 02	G	6 29	K	13 27	14	7 $\frac{3}{4}$ 8	4 33	P	12 $\frac{A}{M}$ 18	B	CAP	11
239	27	Sa.	5 03	G	6 27	K	13 25	14	8 $\frac{3}{4}$ 9	5 15	O	1 15	C	AQR	12
240	28	B	5 04	G	6 26	K	13 22	14	9 $\frac{1}{2}$ 9 $\frac{3}{4}$	5 50	N	2 18	D	AQR	13
241	29	M.	5 05	G	6 24	K	13 19	15	10 $\frac{1}{4}$ 10 $\frac{1}{2}$	6 18	M	3 21	E	AQR	14
242	30	Tu.	5 06	G	6 23	K	13 17	15	11 11	6 42	L	4 24	F	—	—
243	31	W.	5 07	G	6 21	K	13 14	15	11 $\frac{1}{2}$ 11 $\frac{3}{4}$	7 $\frac{P}{M}$ 03	K	5 $\frac{A}{M}$ 26	G	PSC	15



A thing of beauty is a joy for ever:
Its loveliness increases; it will never
Pass into nothingness; but still will keep
A bower quiet for us, and a sleep
Full of sweet dreams, and health, and quiet breathing.

Keats

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	Lammas D. The full buck moon Ψ Stat. In R.A.	In-
2	Tu.	Hannibal routed Romans B.C. 216 Tides $\left\{ \begin{array}{l} 8.8 \\ 9.9 \end{array} \right.$	cle-
3	W.	$\delta \varnothing \delta$ Excellent day for maids to marry $\left\{ \begin{array}{l} 9.9 \\ 8.7 \end{array} \right.$	ment,
4	Th.	W. Indies Hurr. 1666 C in W.W. I Apo. 1914 $\left\{ \begin{array}{l} 9.7 \\ 8.8 \end{array} \right.$	we
5	Fr.	$\delta \text{h} \text{C}$ Crows think their own young fairest $\left\{ \begin{array}{l} 9.5 \\ 8.9 \end{array} \right.$	lament.
6	Sa.	Transfig. C on Eq. [7th Ψ Stat. In R.A.]	One
7	B	10tha. P . Jesus Name of $\delta \varnothing \Psi$ $\left\{ \begin{array}{l} 8.9 \\ 8.9 \end{array} \right.$	tall
8	M.	[11th, Sept. 9, Oct. 22 — lowest] [A.M. high tides — 7.9]	$\left\{ \begin{array}{l} 8.5 \\ 8.8 \end{array} \right.$
9	Tu.	S.S. Erie lost 1841 day Lucky Middleboro torn. 1891	squall.
10	W.	St. Lawrence Barbados hurr. 1831 (most famous of all) Shooting stars (9-14)	Enchanting
11	Th.	Hay fever season begins $\left\{ \begin{array}{l} 8.0 \\ 9.6 \end{array} \right.$	painting;
12	Fr.	$\delta \delta \Psi$ runs high [14th $\delta \Psi \text{C}$ • $\delta \varnothing \text{C}$]	ideal
13	Sa.	10tha. T . $\delta \delta \text{C}$ • $\delta \varnothing \text{C}$	for an
14	B	Assump. V. M. Jesuits $\left\{ \begin{array}{l} 9.3 \\ 11.1 \end{array} \right.$	outdoor
15	M.	Vt's battle Bennington \varnothing Gr. El. Hol. W. Vt. $\left\{ \begin{array}{l} 9.8 \\ 11.5 \end{array} \right.$	meal.
16	Tu.	C in Perl. $\delta \delta \text{C}$ Highest P.M. high tide 11.6	Rain
17	W.	Beware of this month's 2 full moons Tides $\left\{ \begin{array}{l} 10.7 \\ 11.4 \end{array} \right.$	on tin
18	Th.	C on Eq. Dog days over cat nites begin $\left\{ \begin{array}{l} 11.4 \\ 10.9 \end{array} \right.$	roofs
19	Fr.	Destroy bushes and sprouts • Unlucky day	patters
20	Sa.	12tha. P . Evil minds see evil meanings $\left\{ \begin{array}{l} 10.4 \\ 10.7 \end{array} \right.$	like
21	B	$\delta \varnothing \Psi$ Cocks always bold on own dunghills	skeleton's
22	M.	If God be with us who can be agin us? Tides $\left\{ \begin{array}{l} 9.1 \\ 10.0 \end{array} \right.$	hoofs.
23	Tu.	St. Barth. Frosty morning's? Cold winter warning	Perfect
24	W.	C rides A word before 's worth two behind	week if
25	Th.	Two pennies in a purse will always draw together Tides $\left\{ \begin{array}{l} 8.1 \\ 9.5 \end{array} \right.$	it's
26	Fr.	Confucius 551 B.C. A soft answer ealmeth wrath $\left\{ \begin{array}{l} 8.2 \\ 9.5 \end{array} \right.$	sun
27	Sa.	12tha. T . Unlucky day Tides $\left\{ \begin{array}{l} 8.4 \\ 9.6 \end{array} \right.$	you
28	B	John Baptist beheaded Better ne'er begun than never ended	seek.
29	M.	The full St. Sturgeon moon Fiacrius	Gale, take
30	Tu.	C in 1st pro 1895 football game $\left\{ \begin{array}{l} 9.0 \\ 9.7 \end{array} \right.$	in sail.
31	W.	Apo.	Steve and Rob were well bullders. To find water they used their gift as water-diviners. They cut their willow or alder crotches, and with each branch of these held tight-fisted, and the wand ends leading them on, they walked the land. At some time the bark turned in their hands, and the wands thrust down. And there was water beneath. Now they dug the bole — twenty or more feet across, depending upon the depth needed — and gathered their stones (probably from neighbors' walls) — stones broad-ish on one end and tapering — but not too generous to lift and place. For they would now build the well itself — a process seemingly quite simple, but, in truth, a mastery of precision — the affinity of the masons and their stones. Each stone must know the other, and lock as the arch of a stone bridge locks — stone to stone. A well to live forever. The emptiness outside the wall was filled with unlikely stone rubble, for this loose space was as important to water gathering as the well itself. Sometimes Rob and Steve started their circle many times larger at the bottom than the top might be. Sometimes not. That was their judgment. Then a well sweep, or a well house — a hand pump within, or a rope on its creaky spindle, and an oaken bucket. Their well — for some day somebody's great grandchildren to drop tinkly pebbles into and wonder who made it.

1966]

SEPTEMBER, NINTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /	Days.		0 /	Days.		0 /	Days.		0 /	Days.		0 /						
	1	2		7	8		13	14		15	16		17	18		19	20	21	22	23	24
	1	8N.17		7	6 04	13		3 47		19	1 29		25	0 52							
	2	7 55		8	5 41	14		3 24		20	1 05		26	1 15							
	3	7 33		9	5 19	15		3 01		21	0 42		27	1 38							
	4	7 11	10	4 56	16		2 38		22	0N.19		28	2 02								
	5	6 49	11	4 33	17		2 15		23	0s. 05		29	2 25								
	6	6 26	12	4 10	18		1 52		24	0 28		30	2 48								

☾ Last Quarter, 7th day, 9 h. 08 m., evening, E.

● New Moon, 14th day, 2 h. 14 m., evening, W.

☽ First Quarter, 21st day, 9 h. 25 m., morning, E.

○ Full Moon, 29th day, 11 h. 48 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	Key	☉ Sets h. m.	Key	Length of Days h. m.	Sun m. Fast	Full Sea. Boston. Morn. h. Eve. h.	☽ Rises h. m.	Key	☽ Sets h. m.	Key	☽ Place	Age
244	1	Th.	5 08	G	6 19	K	13 11	16	— 0	7 ^P _M 22	J	6 ^A _M 28	H	PSC	16
245	2	Fr.	5 09	G	6 18	K	13 08	16	0 ¹ / ₄ 0 ³ / ₄	7 42	H	7 29	I	ARI	17
246	3	Sa.	5 10	G	6 16	K	13 06	16	1 1 ¹ / ₄	8 01	G	8 28	J	ARI	18
247	4	B	5 11	G	6 14	K	13 03	17	1 ¹ / ₂ 2	8 22	F	9 31	K	ARI	19
248	5	M.	5 12	H	6 13	J	13 00	17	2 ¹ / ₄ 2 ¹ / ₂	8 47	E	10 35	M	TAU	20
249	6	Tu.	5 13	H	6 11	J	12 57	17	3 3 ¹ / ₄	9 16	D	11 ^A _M 41	N	TAU	21
250	7	W.	5 14	H	6 09	J	12 55	18	3 ³ / ₄ 4	9 53	B	12 ^P _M 48	O	G'M	22
251	8	Th.	5 16	H	6 07	J	12 52	18	4 ³ / ₄ 5	10 40	B	1 55	P	G'M	23
252	9	Fr.	5 17	H	6 06	J	12 49	18	5 ¹ / ₂ 6	11 ^P _M 40	B	2 57	P	CNC	24
253	10	Sa.	5 18	H	6 04	J	12 46	19	6 ³ / ₄ 7	—	—	3 53	P	CNC	25
254	11	B	5 19	H	6 02	J	12 43	19	7 ³ / ₄ 8	12 ^A _M 49	B	4 39	O	LEO	26
255	12	M.	5 20	H	6 00	J	12 41	19	8 ³ / ₄ 9	2 07	D	5 18	M	LEO	27
256	13	Tu.	5 21	H	5 59	J	12 38	20	9 ¹ / ₂ 10	3 28	E	5 49	L	VIR	28
257	14	W.	5 22	H	5 57	J	12 35	20	10 ¹ / ₂ 10 ³ / ₄	4 50	G	6 16	J	VIR	0
258	15	Th.	5 23	H	5 55	J	12 32	20	11 ¹ / ₄ 11 ¹ / ₂	6 12	H	6 42	I	LIB	1
259	16	Fr.	5 24	H	5 53	J	12 29	21	— 0	7 31	J	7 08	G	LIB	2
260	17	Sa.	5 25	I	5 51	I	12 26	21	0 ¹ / ₂ 1	8 49	L	7 35	F	SCO	3
261	18	B	5 26	I	5 50	I	12 24	22	1 ¹ / ₂ 1 ³ / ₄	10 06	M	8 05	D	SCO	4
262	19	M.	5 27	I	5 48	I	12 21	22	2 ¹ / ₄ 2 ¹ / ₂	11 ^A _M 21	N	8 40	C	SGR	5
263	20	Tu.	5 28	I	5 46	I	12 18	22	3 ¹ / ₄ 3 ¹ / ₂	12 ^P _M 32	O	9 23	B	SGR	6
264	21	W.	5 29	I	5 44	I	12 15	23	4 ¹ / ₄ 4 ¹ / ₂	1 35	P	10 12	B	CAP	7
265	22	Th.	5 30	I	5 43	I	12 12	23	5 ¹ / ₄ 5 ¹ / ₂	2 31	P	11 ^P _M 08	B	CAP	8
266	23	Fr.	5 31	I	5 41	I	12 10	23	6 ¹ / ₄ 6 ¹ / ₂	3 16	O	—	—	CAP	9
267	24	Sa.	5 33	I	5 39	I	12 07	24	7 ¹ / ₂ 7 ¹ / ₂	3 52	O	12 ^A _M 10	C	AQR	10
268	25	B	5 34	I	5 38	I	12 04	24	8 ¹ / ₄ 8 ¹ / ₂	4 22	N	1 13	D	AQR	11
269	26	M.	5 35	I	5 36	I	12 01	24	9 9 ¹ / ₄	4 48	L	2 16	E	PSC	12
270	27	Tu.	5 36	I	5 34	I	11 58	25	9 ³ / ₄ 10	5 09	K	3 18	F	PSC	13
271	28	W.	5 37	J	5 32	H	11 56	25	10 ¹ / ₂ 10 ¹ / ₂	5 29	J	4 20	G	PSC	14
272	29	Th.	5 38	J	5 30	H	11 53	25	11 11 ¹ / ₄	5 47	I	5 21	H	ARI	15
273	30	Fr.	5 39	J	5 29	H	11 50	26	11 ¹ / ₂ 11 ³ / ₄	6 ^P _M 07	H	6 ^A _M 22	J	—	—



Now the fair apple, rudde as even sky,
Do bend t he tree unto the fructlle ground,
And juice pears, and berries of black dye,
Do dance in air and call the eyne around.
Challerton

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	♁♃ Oysters in season now	9.1 Sprinkles
2	Fr.	Great London fire 1666	♁♃ Tides } 9.6 bring
3	Sa.	Hay fever worst now	This day bec. 14th, 1752 } 9.2 various
4	B	14th a. P. Moses, Patr.	9.2 wrinkles.
5	M.	Labor Day Harvest cranberries	Blest with
6	Tu.	Separate ewes from lambs	Unlucky day } summer's
7	W.	Hope of reward can make pain seem pleasant	8.2 } 9.0 farewell
8	Th.	Nativity of Mary	Lucky Tides } 8.0 } 9.1 caress.
9	Fr.	Fishes spawning	Runs high } Hol. Cal. } 8.2 } 8.9 High
10	Sa.	♁♃♁ Sup.	♁♃♁ Tides } 8.0 } 9.6 tides
11	B	14th a. T. Men are most often painted in their own true colors	♁♃♁ ride } waves
12	M.		Hol. Md. } over
13	Tu.	♁♃♁ • ♁♀♁	N.H. prim. elec. } over
14	W.	Holy Cross	in Peri. Rosh Hashanah } sailor's
15	Th.	♁ on 1st. Eng. air Eq. voyage 1794	♁ Avoid accidents } graves.
16	Fr.	Cherokee Day	Church bells tolled } 1000 tl. Worcester, 1816 } 11.8
17	Sa.	Fast of Gedalla	Citizens' Day } Blushing leaves
18	B	16th a. P. N. E. trees colorful about now — Oct. 12	♁♃♁ } 10.8 } 11.2 as trees
19	M.	Tunbridge, Vt. World's Fair	Noah's Ark uncovered B.C. 2348 } 9.4 } 10.2
20	Tu.	St. Matthew	New Ember Days 21, 23, 24 } tease.
22	Th.	Okl. land rush 1891	rides low } 8.3 } 9.3 Take a stroll
23	Fr.	Fall begins A.M.	♁ en-♁ Yom Kippur } on the
24	Sa.	John, Bap. conc.	Woodchucks hibernates } 8.0 } 9.0 knoll.
25	B	16th a. T. 'Tis oft heard and seen that foul water washes clean	♁♀♁ D.S.T. ends } 8.2 } 9.1 some places
26	M.		♁♃♁ Drought's
27	Tu.	♁ in Apo. play the fool	♁♃♁ suspended,
28	W.	Tabernacles (28 — Oct. 5)	♁♃♁ rain's intended.
29	Th.	St. Mich. Harvest moon is on equator	♁♃♁ Roars as it
30	Fr.	St Jerome. Early dew? Fair day.	♁♃♁ } 9.5 } 9.4 pours.

What of the moon? The moon is for the bliss and comfort of lovers, and such dreams and rememberings as oldsters may still find. It is the nearest, most pagan serenity we may look to. But strangely disquieting; for in its tranquil passage it hath its bidding. Tides ehh and sweep; seeds in the uneasy womb of earth ripen and swell; in the restless, moon-bright waters the charmed fish feed. And man, beset with his longings and dead dreams, frets the night away. These are true things under the moon.

But we say the moon is earth's property, for we have taken its pictures and crashed into it — and perhaps we have men there now. We know there will come a time when we shall have explored and understood the last ashy desert, the circumference of the last scarred mountain and crater, and the curiously straight canals. And we say that the moon was a shape at the end of the earth's umbilical cord — or a spiral cast off from the greater swirl of the earth — and much besides.

Of these I would know no more — nor guess. I would still believe only that between the infinity of forever-unknown skies and our little world, this little moon, so near and bright when all else would be dark even under the stars, will simply be the moon and not a moon that was.

1966]

OCTOBER, TENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	3s.	12	7	5	30	13	7	47	19	9	59	25	12	06	
	2	3	35	8	5	53	14	8	09	20	10	21	26	12	27	
	3	3	58	9	6	16	15	8	31	21	10	42	27	12	47	
	4	4	21	10	6	39	16	8	54	22	11	04	28	13	08	
	5	4	44	11	7	02	17	9	16	23	11	25	29	13	28	
	6	5	07	12	7	24	18	9	37	24	11	46	30	13	47	

☾ Last Quarter, 7th day, 8 h. 09 m., morning, W.

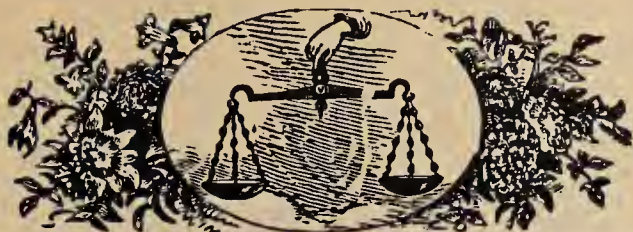
● New Moon, 13th day, 10 h. 52 m., evening, W.

☽ First Quarter, 21st day, 12 h. 35 m., morning, E.

○ Full Moon, 29th day, 5 h. 01 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85. FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	☉ Key	☉ Sets h. m.	☉ Key	Length of Days h. m.	Sun Fast	Full Sea, Boston. Morn Eve. h. h.	☽ Rises h. m.	☽ Key	☽ Sets h. m.	☽ Key	Place	Age	
274	1	Sa.	5 40	J	5 27	H	11 47	26	0	0	6 ^P _M 28	F	7 ^A _M 24	K	ARI	16
275	2	B	5 41	J	5 25	H	11 44	26	0 ¹ / ₂	0 ³ / ₄	6 50	E	8 28	L	TAU	17
276	3	M.	5 42	J	5 23	H	11 41	27	1	1 ¹ / ₄	7 18	D	9 33	N	TAU	18
277	4	Tu.	5 43	J	5 22	H	11 38	27	1 ³ / ₄	2	7 52	C	10 39	O	G'M	20
278	5	W.	5 45	J	5 20	H	11 35	27	2 ¹ / ₂	2 ³ / ₄	8 34	B	11 ^A _M 46	P	G'M	21
279	6	Th.	5 46	J	5 18	H	11 33	28	3 ¹ / ₄	3 ¹ / ₂	9 27	B	12 ^P _M 49	P	G'M	22
280	7	Fr.	5 47	J	5 17	H	11 30	28	4 ¹ / ₄	4 ¹ / ₂	10 31	B	1 45	P	CNC	23
281	8	Sa.	5 48	J	5 15	H	11 27	28	5 ¹ / ₄	5 ¹ / ₂	11 ^P _M 43	C	2 34	O	CNC	24
282	9	B	5 49	J	5 13	H	11 24	28	6 ¹ / ₄	6 ¹ / ₂	—	—	3 14	N	LEO	25
283	10	M.	5 50	K	5 11	H	11 21	29	7 ¹ / ₄	7 ³ / ₄	1 ^A _M 01	D	3 47	M	LEO	26
284	11	Tu.	5 51	K	5 10	G	11 18	29	8 ¹ / ₄	8 ³ / ₄	2 21	F	4 14	K	VIR	27
285	12	W.	5 53	K	5 08	G	11 15	29	9 ¹ / ₄	9 ¹ / ₂	3 41	H	4 40	J	VIR	28
286	13	Th.	5 54	K	5 06	G	11 13	29	10	10 ¹ / ₂	5 01	I	5 05	H	LIB	29
287	14	Fr.	5 55	K	5 05	G	11 10	30	11	11 ¹ / ₄	6 19	K	5 32	F	LIB	1
288	15	Sa.	5 56	K	5 03	G	11 07	30	11 ³ / ₄	—	7 39	M	6 01	E	SCO	2
289	16	B	5 57	K	5 02	G	11 04	30	0 ¹ / ₄	0 ¹ / ₂	8 56	N	6 34	D	SCO	3
290	17	M.	5 58	K	5 00	G	11 02	30	1	1 ¹ / ₄	10 13	O	7 14	C	SGR	4
291	18	Tu.	6 00	K	4 59	G	10 59	31	2	2	11 ^A _M 23	P	8 02	B	SGR	5
292	19	W.	6 01	K	4 57	G	10 56	31	2 ³ / ₄	3	12 ^P _M 24	P	8 57	B	CAP	6
293	20	Th.	6 02	K	4 56	G	10 54	31	3 ³ / ₄	4	1 14	P	9 59	C	CAP	7
294	21	Fr.	6 03	K	4 54	G	10 51	31	4 ³ / ₄	5	1 54	O	11 ^P _M 02	C	AQR	8
295	22	Sa.	6 04	L	4 53	F	10 48	31	5 ³ / ₄	6	2 27	N	—	—	AQR	9
296	23	B	6 06	L	4 51	F	10 46	31	6 ³ / ₄	7	2 53	M	12 ^A _M 07	D	PSC	10
297	24	M.	6 07	L	4 50	F	10 43	31	7 ³ / ₄	8	3 14	L	1 09	F	PSC	11
298	25	Tu.	6 08	L	4 48	F	10 40	32	8 ¹ / ₂	8 ³ / ₄	3 34	K	2 11	G	PSC	12
299	26	W.	6 09	L	4 47	F	10 38	32	9 ¹ / ₄	9 ¹ / ₂	3 53	J	3 12	H	ARI	13
300	27	Th.	6 10	L	4 45	F	10 35	32	9 ³ / ₄	10	4 12	H	4 13	J	ARI	14
301	28	Fr.	6 12	L	4 44	F	10 32	32	10 ¹ / ₂	10 ³ / ₄	4 33	G	5 16	K	TAU	15
302	29	Sa.	6 13	L	4 43	F	10 30	32	11	11 ¹ / ₂	4 55	F	6 19	L	—	—
303	30	B	6 14	L	4 41	F	10 27	32	11 ¹ / ₂	—	5 21	D	7 25	M	TAU	16
304	31	M.	6 15	L	4 40	F	10 25	32	0	0 ¹ / ₄	5 ^P _M 53	C	8 ^A _M 32	N	TAU	17



Then came the Autumn all in yellow clad,
As though he joyed in his plenteous store,
And in his hand a sickle he did hold,
To reap the ripened fruits which the earth had yold.

Spenser

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	Freeze ferns now for Xmas bouquets	Tides { 9.6 Enough
2	B	18th a. Terr. 1841	Gale { 9.1 rough
3	M.	The day hath eyes the night hath ears	Hol. { 9.1 tough
4	Tu.	Francis d'Assisi • Quebec fire 1866	Tides { 8.8 stuff, 9.5
5	W.	Prune or plant trees • Parallel March 8	Tides { 8.5 Mac- 9.4
6	Th.	Rejoicing of the law • High	Tides { 8.2 Duff. 9.2
7	Fr.	Lawyers' houses are built of fool's heads	Tides { 8.0 Zippy 9.2
8	Sa.	1st. U.S. Locomotive, 1829	Tides { 8.0 for 9.8
9	B	18th a. T. Lief Erikson Abraham	{ 8.8 that 9.6
10	M.	66 Cranberry harvest just about over	Hol. Okla. Fall
11	Tu.	66 They that buy cheap bring nothing home	trippy.
12	W.	Columbus Day • in Hol. Perl. 37 States	Clouds
13	Th.	Con There's no medicine to cure fear	proclaim
14	Fr.	Hastings • Sockeye Salmon hat. 1066 • homeward go	{ 11.4 heavy 11.0
15	Sa.	Poetry Day • Highest A.M. high tide	11.6 rain.
16	B	20th a. Th. 65 • Highest A.M. high tide	{ 10.7 Beaches 11.5
17	M.	They that will not when they may shall not when they would	singing,
18	Tu.	St. Luke Ev-angel. • Alaska Day	{ 9.7 sunken 10.7
19	W.	rides Things one forsakes low another takes	{ 9.1 bells 10.0
20	Th.	Charity begins at home but should not end there	ringing.
21	Fr.	1st rec. dark • Fear not the day day N.E. 1716 • you have not seen	Too
22	Sa.	65 Pensacola hurr. 1766	Tides { 7.9 late, 8.7
23	B	20th a. T. Mission Sunday	Tides { 8.0 mate; 8.6
24	M.	United Nations • Chipmunks hibernate	Tides { 8.2 our 8.7
25	Tu.	64 in Apo. • World created 4004 B.C.	date
26	W.	6 Gr. El. • on Sundials E. • Eq. 32 min. off	{ 8.9 must 7.0
27	Th.	The full (29th) Hunter's Moon	Tides { 9.2 await 9.1
28	Fr.	Simon & Jude World's third gt. plague 1348 A.D.	until
29	Sa.	Daylight Saving time ends tomorrow	eclipse fate
30	B	22nd a. Th. Christ the King	{ 9.2 - this rain
31	M.	Halloween Hol. Nev.	{ 9.0 doth abate. 9.0

Drought, flood, and fire are natural companions to man. They are his problems. He is not theirs. His concern is to adjust to them, to control them wisely when he can, or leave them alone.

The Sahara and the Gohi are natural deserts, yet man creates his own deserts with the one hand, while seeking to make scorched sands fruitful with the other. To maintain a balance between the unpredictable processes of nature and the little of them he has not already disturbed, is man's problem.

Drought is his first enemy. He knows it in withered crops and terrible holocausts, and scarcely less quickly in the shrinking of reservoirs, in erosion, in the death of little streams, and the parching of wetlands. It is not easy for man to understand that it takes but little less rainfall than normal over a very few years to change the face of the land. Or that sods he turned, or pastures he over-grazed in green years may be blown away in dry years. Or that water he wastes today may never be fully replenished in all his tomorrows.

Flood and fire, destroyers indeed, are yet creators and builders. Over the centuries fertile croplands have been deepened and richened by constant flooding. And the deltas of rivers are our new earth. Fire burns and loosens the heavy forest floor, warms and releases seeds to light and life, and feeds them its ash. Our redwoods and Douglas furs are forests from fire.

1966]

NOVEMBER, ELEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	14s. 26	7	16 17	13	17 58	19	19 28	25	20 45						
2	14 45	8	16 35	14	18 14	20	19 42	26	20 57							
3	15 04	9	16 52	15	18 29	21	19 56	27	21 08							
4	15 23	10	17 09	16	18 45	22	20 09	28	21 19							
5	15 41	11	17 26	17	19 00	23	20 21	29	21 29							
6	15 59	12	17 42	18	19 14	24	20 33	30	21 39							

☾ Last Quarter, 5th day, 5 h. 19 m., evening, W.

● New Moon, 12th day, 9 h. 27 m., morning, E.

☽ First Quarter, 19th day, 7 h. 21 m., evening, W.

○ Full Moon, 27th day, 9 h. 41 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☉ Rises h. m.	☉ Sets h. m.	☉ Key	☉ Length of Days h. m.	☉ Sun n. Fast	☉ Full Sea, Boston. Morn. h.	☉ Eve. h.	☉ D Rises h. m.	☉ Key	☉ D Sets h. m.	☉ Key	☉ D Place	☉ D Age
305	1	Tu.	6 17	L 4 39	F	10 22	32	0 $\frac{3}{4}$	0 $\frac{3}{4}$	6 $\frac{P}{M}$ 33	B	9 $\frac{A}{M}$ 39	P	G'M	18
306	2	W.	6 18	L 4 37	F	10 20	32	1 $\frac{1}{2}$	1 $\frac{1}{2}$	7 23	B	10 43	F	G'M	19
307	3	Th.	6 19	L 4 36	E	10 17	32	2	2 $\frac{1}{4}$	8 22	B	11 $\frac{A}{M}$ 42	F	CNC	20
308	4	Fr.	6 20	M 4 35	E	10 15	32	3	3 $\frac{1}{4}$	9 31	C	12 $\frac{P}{M}$ 32	F	CNC	21
309	5	Sa.	6 22	M 4 34	E	10 12	32	4	4 $\frac{1}{4}$	10 $\frac{P}{M}$ 44	D	1 13	O	LEO	22
310	6	B	6 23	M 4 33	E	10 10	32	5	5 $\frac{1}{4}$	—	—	1 47	M	LEO	23
311	7	M.	6 24	M 4 31	E	10 07	32	6	6 $\frac{1}{4}$	12 $\frac{A}{M}$ 01	E	2 15	L	VIR	24
312	8	Tu.	6 25	M 4 30	E	10 05	32	7	7 $\frac{1}{4}$	1 18	G	2 41	J	VIR	25
313	9	W.	6 27	M 4 29	E	10 03	32	8	8 $\frac{1}{4}$	2 35	H	3 05	I	LIB	26
314	10	Th.	6 28	M 4 28	E	10 00	32	8 $\frac{3}{4}$	9 $\frac{1}{4}$	3 52	J	3 30	G	LIB	27
315	11	Fr.	6 29	M 4 27	E	9 58	32	9 $\frac{3}{4}$	10 $\frac{1}{4}$	5 10	L	3 57	F	SCO	28
316	12	Sa.	6 30	M 4 26	E	9 56	32	10 $\frac{1}{2}$	11	6 29	M	4 27	D	SCO	0
317	13	B	6 32	M 4 25	E	9 53	31	11 $\frac{1}{4}$	—	7 47	N	5 05	C	SGR	1
318	14	M.	6 33	M 4 24	E	9 51	31	0	0	9 01	O	5 50	B	SGR	2
319	15	Tu.	6 34	M 4 23	E	9 49	31	0 $\frac{3}{4}$	1	10 08	P	6 43	B	CAP	3
320	16	W.	6 35	M 4 22	D	9 47	31	1 $\frac{1}{2}$	1 $\frac{3}{4}$	11 05	P	7 43	—	CAP	4
321	17	Th.	6 37	M 4 22	D	9 45	31	2	2	11 $\frac{A}{M}$ 50	O	8 48	B	AQR	5
322	18	Fr.	6 38	N 4 21	D	9 43	31	3 $\frac{1}{4}$	3 $\frac{1}{2}$	12 $\frac{P}{M}$ 26	N	9 53	C	AQR	6
323	19	Sa.	6 39	N 4 20	D	9 41	30	4 $\frac{1}{4}$	4 $\frac{1}{2}$	12 55	M	10 $\frac{P}{M}$ 58	D	AQR	7
324	20	B	6 40	N 4 19	D	9 39	30	5	5 $\frac{1}{4}$	1 18	L	—	E	PSC	8
325	21	M.	6 42	N 4 19	D	9 37	30	6	6 $\frac{1}{4}$	1 39	K	12 $\frac{A}{M}$ 00	F	PSC	9
326	22	Tu.	6 43	N 4 18	D	9 35	30	7	7 $\frac{1}{4}$	1 58	J	1 02	H	ARI	10
327	23	W.	6 44	N 4 17	D	9 33	29	7 $\frac{3}{4}$	8	2 18	I	2 02	I	ARI	11
328	24	Th.	6 45	N 4 17	D	9 32	29	8 $\frac{1}{2}$	8 $\frac{3}{4}$	2 37	G	3 03	J	ARI	12
329	25	Fr.	6 46	N 4 16	D	9 30	29	9	9 $\frac{1}{2}$	2 58	F	4 06	K	TAU	14
330	26	Sa.	6 47	N 4 16	D	9 28	28	9 $\frac{3}{4}$	10 $\frac{1}{4}$	3 23	E	5 11	M	TAU	15
331	27	B	6 49	N 4 15	D	9 26	28	10 $\frac{1}{2}$	11	3 52	D	6 19	N	G'M	16
332	28	M.	6 50	N 4 15	D	9 25	28	11	11 $\frac{1}{2}$	4 30	B	7 28	N	—	—
333	29	Tu.	6 51	N 4 14	D	9 23	27	11 $\frac{3}{4}$	—	5 17	B	8 35	P	G'M	17
334	30	W.	6 52	N 4 14	D	9 22	27	0 $\frac{1}{4}$	0 $\frac{1}{2}$	6 $\frac{P}{M}$ 15	B	9 $\frac{A}{M}$ 36	P	CNC	18



'Tis when the stacks get on their winter hap,
And thack and rape secure the toll-won cap;
Potatoe bings are snugged up frae skalth
O' coming winter's biting, frosty breath.

Burns

D.M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	All Saints Hol. La. Tides {8.9	Make
2	W.	All Lisbon Quake (1st) (8.7	haste
3	Th.	Souls world's worst 1755 (9.8	only
4	Fr.	1st Ohio River runs (8.5	to a
5	Sa.	Steamboat 1811 (high Tides {9.7	fireplace.
6	B	St. Clair def. Hol. Okla. Tides {8.3	Good
7	M.	Miami 1791 Fawkes' plot (8.2	football
8	Tu.	not forgot (9.4	days,
9	W.	22nd a. T. Stat. Noah B. In R.A. B.C. 2948 (9.5	the
10	Th.	Antarctic Seals now bearing young Elections some states (10.0	man
11	Fr.	Good for travel on (Eq. Tides {10.0	says.
12	Sa.	bad for theft (C in Full cups must (10.6	Blustery,
13	B	Perl. be held steady (10.2	bold,
14	M.	St. Martin Vet's Day Lucky day (49 States	windy,
15	Tu.	Total eclipse of the sun (Sadle Hawkins	cold.
16	W.	24th a. P. Indlan Summer begins (13-20)	Snows
17	Th.	8Psi The talkers sow, the silent reaps (11.8	and
18	Fr.	Lavater B. 1741 (low Tides {9.7	blows.
19	Sa.	Now cellar root crops (Noah's flood over B.C. 2348 (10.9	Driving's
20	B	8Psi Inf. Day of many accidents (8.8	wicked,
21	M.	Earthquake, Scituate, Mass. to Phila., Pa. 1755 (8.8	avoid a ticket.
22	Tu.	Fine feathers make fine birds only (Tides {8.1	Good
23	W.	24th a. T. [21st Stat. in R.A. (8.8	cheer,
24	Th.	8hC in Apo. Compact (8.3	clear.
25	Fr.	J.F.K. Prune vines (Tides {8.8	4 days
26	Sa.	on Eq. Try before you trust (Hol. Md. (8.8	clear.
27	B	Thanksgiving Day (Tides {8.9	With
28	M.	Days (9 h. 30 min.) now shorter by 5 h. 49 min. than June 22 (8.5	With
29	Tu.	Stat. in R.A. Too many captains, ship will sink (8.5	meet.
30	W.	8hC in Apo. Compact (8.3	meet.

For many long years, strung between the rafters in our barn, have hung the snowshoes we used as a family — my family when I was a boy. There were four pair of bear-paws and one of long, racing shoes, which father, who was not built for racing, always wore. I had them repaired, at twice the price, I am sure, that father paid C. S. Sprague Co., Boston. But now we shall have enough shoes to keep one set of grandchildren and myself snowborne next winter.

When we do set out, it will be to make trails in no wilder country of New Hampshire to-day than I snowshoed as a boy within a few miles of Boston's State House. My brothers and I would take off in the morning with a sandwich in our pockets and make a full day of it, crossing snowpacked roads only once or twice. We didn't have to imagine we were trappers in a wilderness. We were trappers, tending our traps in the swamps and along streams we fished for trout in summer. Except for sleigh bells now and then on the hill road and an occasional locomotive whistling on the South Shore Line, our wilderness was real enough. The crumbling crags above the lake we called Lost were its Forts Ticonderoga and Duquesne. And there was Desolation Camp.

Perhaps my grandchildren will find their own wilderness along our snowshoe trails and share it with me, while I tell them tales of my own.

If there be ice in November to bear a duck
There'll be nothing thereafter but sleet & muck

1966]

DECEMBER, TWELFTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.				
	0	/	Days.	0	/	Days.	0	/	Days.	0	/	Days.		
1	21s.	49	7	22	37	13	23	09	19	23	25	25	23	24
2	21	58	8	22	43	14	23	13	20	23	26	26	23	22
3	22	06	9	22	49	15	23	16	21	23	27	27	23	20
4	22	15	10	22	55	16	23	19	22	23	26	28	23	17
5	22	22	11	23	00	17	23	22	23	23	26	29	23	14
6	22	30	12	23	05	18	23	24	24	23	24	30	23	10

☾ Last Quarter, 5th day, 1 h. 23 m., morning, E.

● New Moon, 11th day, 10 h. 14 m., evening, W.

☽ First Quarter, 19th day, 4 h. 41 m., evening, E.

○ Full Moon, 27th day, 12 h. 44 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 81-85, FOR ALL POINTS OUTSIDE NEW ENGLAND

Day of Year	Day of Month	Day of Week	☺ Rises h. m.	Key	☹ Sets h. m.	Key	Length of Days h. m.	Sun Fast. m.	Full Sea. Boston. Morn h.	Even. h.	☽ Rises h. m.	Key	☽ Sets h. m.	Key	☽ Place	Age
335	1	Th.	6 53	N	4 14	D	9 21	27	1	1 $\frac{1}{4}$	7 $\frac{P}{M}$ 22	B	10 $\frac{A}{M}$ 29	P	CNC	19
336	2	Fr.	6 54	N	4 13	D	9 19	26	2	2	8 35	C	11 14	O	LEO	20
337	3	Sa.	6 55	N	4 13	D	9 18	26	2 $\frac{3}{4}$	3	9 50	E	11 $\frac{A}{M}$ 50	N	LEO	21
338	4	B	6 56	N	4 13	D	9 17	26	3 $\frac{1}{2}$	4	11 $\frac{P}{M}$ 06	F	12 $\frac{P}{M}$ 19	L	VIR	22
339	5	M.	6 57	N	4 13	D	9 16	25	4 $\frac{1}{2}$	5	—	—	12 45	K	VIR	23
340	6	Tu.	6 58	N	4 13	D	9 14	25	5 $\frac{1}{2}$	6	12 $\frac{A}{M}$ 20	H	1 09	I	LIB	24
341	7	W.	6 59	N	4 12	C	9 13	24	6 $\frac{1}{2}$	7	1 34	I	1 32	H	LIB	25
342	8	Th.	7 00	O	4 12	C	9 12	24	7 $\frac{1}{2}$	8	2 49	K	1 57	F	LIB	26
343	9	Fr.	7 01	O	4 12	C	9 11	23	8 $\frac{1}{2}$	9	4 05	L	2 25	E	SCO	27
344	10	Sa.	7 02	O	4 12	C	9 11	23	9 $\frac{1}{4}$	10	5 22	N	2 58	D	SCO	28
345	11	B	7 03	O	4 13	C	9 10	23	10	10 $\frac{3}{4}$	6 38	O	3 39	C	SGR	29
346	12	M.	7 04	O	4 13	C	9 09	22	11	11 $\frac{1}{2}$	7 49	P	4 28	B	SGR	0
347	13	Tu.	7 04	O	4 13	C	9 08	22	11 $\frac{3}{4}$	—	8 51	P	5 26	B	CAP	1
348	14	W.	7 05	O	4 13	C	9 08	21	0 $\frac{1}{2}$	0 $\frac{1}{2}$	9 42	P	6 29	C	CAP	2
349	15	Th.	7 06	O	4 13	C	9 07	21	1 $\frac{1}{4}$	1 $\frac{1}{4}$	10 22	C	7 36	D	AQR	3
350	16	Fr.	7 07	O	4 13	C	9 07	20	2	2	10 55	N	8 42	E	AQR	4
351	17	Sa.	7 07	O	4 14	C	9 07	20	2 $\frac{3}{4}$	3	11 21	M	9 46	F	PSC	5
352	18	B	7 08	O	4 14	C	9 06	19	3 $\frac{1}{2}$	3 $\frac{3}{4}$	11 $\frac{A}{M}$ 43	K	10 48	G	PSC	6
353	19	M.	7 09	O	4 15	C	9 06	19	4 $\frac{1}{2}$	4 $\frac{1}{2}$	12 $\frac{P}{M}$ 02	J	11 $\frac{P}{M}$ 50	H	PSC	7
354	20	Tu.	7 09	O	4 15	C	9 06	18	5 $\frac{1}{4}$	5 $\frac{1}{2}$	12 21	I	—	—	ARI	8
355	21	W.	7 10	O	4 16	C	9 06	18	6	6 $\frac{1}{2}$	12 40	H	12 $\frac{A}{M}$ 49	J	ARI	9
356	22	Th.	7 10	O	4 16	C	9 06	17	6 $\frac{3}{4}$	7 $\frac{1}{4}$	1 01	G	1 52	K	TAU	10
357	23	Fr.	7 11	O	4 17	C	9 06	17	7 $\frac{1}{2}$	8	1 23	E	2 55	L	TAU	11
358	24	Sa.	7 11	O	4 17	C	9 06	16	8 $\frac{1}{2}$	9	1 51	D	4 02	M	G'M	12
359	25	B	7 12	O	4 18	C	9 06	16	9	9 $\frac{3}{4}$	2 25	C	5 10	O	G'M	14
360	26	M.	7 12	O	4 18	C	9 07	15	10	10 $\frac{1}{2}$	3 09	B	6 18	P	G'M	15
361	27	Tu.	7 12	O	4 19	C	9 07	15	10 $\frac{1}{2}$	11 $\frac{1}{4}$	4 03	B	7 24	P	—	—
362	28	W.	7 12	O	4 20	C	9 07	14	11 $\frac{1}{4}$	—	5 08	B	8 22	P	CNC	16
363	29	Th.	7 13	O	4 21	C	9 08	14	0	0	6 21	C	9 11	O	CNC	17
364	30	Fr.	7 13	O	4 21	C	9 08	13	0 $\frac{3}{4}$	1	7 38	E	9 51	N	LEO	18
365	31	Sa.	7 13	C	4 22	C	9 09	13	1 $\frac{1}{2}$	1 $\frac{3}{4}$	8 $\frac{P}{M}$ 55	F	10 $\frac{A}{M}$ 23	M	LEO	19

DECEMBER hath 31 days.

[1966



In me thou seest the glowing of such fire
That on the ashes of his youth doth lie
This thou perceiv'st, which makes thy love more strong,
To love that well which thou must leave ere long.

Shakespeare

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	<i>If this month be mild</i> Hol. <i>First</i> <i>Winter will remain a child</i> Ark.	When we are decently old, we may retire to a place in the country. Yet we do not think of ourselves as done for and discarded. We have not really retired at all, but freed ourselves to greener pastures — pastures of leisure, perhaps, but more often of opportunities and adventures, sometimes very active indeed.
2	Fr.	♂♃ Every man carries { 8.7 a fool in his sleeve { 10.0 <i>real</i>	
3	Sa.	Earliest sunsets • Mary Baker Eddy 1910 <i>splinter</i>	
4	B	2nd S. A. Barbara's branches { Gr. El. of a W. W.	
5	M.	♂♀♄ • ♂♃ Now kill pork & beef <i>hard</i>	
6	Tu.	Nicholas ♂♃♄ • ♄ Eq. { 9.3 { 9.3 <i>winter.</i>	
7	W.	Pearl Harbor Hanukah ♄ in <i>Black</i> Perl.	
8	Th.	Conception • Chilean atlar Hol. <i>trees</i> of V. M. fire 1863 Del.	
9	Fr.	<i>If men fools and knives will be they'll be ass-ridden by all three</i> <i>groan-</i>	
10	Sa.	♂♄♄ • ♂♃ Hol. { 10.9 Wyo. { 9.5 <i>ing while</i>	
11	B	3rd S. A. Elchmann Tides { 11.0 conv. 1961 { 9.4 <i>high</i>	
12	M.	<i>She was pure as snow</i> { 11.0 <i>but how she could drift</i> { 9.3 <i>winds are</i>	
13	Tu.	St. Lucy ♄ Rides { 10.9 low { 10.9 <i>moaning.</i>	
14	W.	Be of good cheer • Ember { 9.1 live another year Day { 10.5 <i>Even</i>	
15	Th.	Bill of • Great storm { 8.9 Rights of 1839 { 10.1 <i>Gramp</i>	
16	Fr.	Ember • Who cheats me twice <i>can't</i> Day serves me right	
17	Sa.	Lazarus died • Ember <i>remember</i> 2nd tl. 63 A.D. • Day	
18	B	4th S. A. Shortest days <i>a worse</i> 9:06 (18-25)	
19	M.	♂♂♄ • ♄ in Be good and you'll Apo. he lonesome	
20	Tu.	Romulus conclave ♄ on { 8.2 Eq. { 8.1 <i>December.</i>	
21	W.	St. (Apo.) • Fore- <i>No let-up in</i> Thomas father's	
22	Th.	Winter begins 2:29 A.M. ☉ enters ♃ <i>sight</i>	
23	Fr.	<i>When Yule falls on Tuesday sell your hogs and buy hay</i> <i>even on</i>	
24	Sa.	Many leaves on { 9.1 trees? You'll freeze { 8.1 <i>Christmas</i>	
25	B	Christmas Day Tides { 9.5 { 8.3 <i>night.</i>	
26	M.	St. Stephen, Judas { 9.8 Apo. horn { 8.5 <i>This year's</i>	
27	Tu.	St. John, Hungry fox full moon runs high <i>been</i> Ev.	
28	W.	Childermas Whatever is, is right <i>extreme, or</i>	
29	Th.	St. David ♂♃♄ { 8.9 { 10.6 <i>so it would</i>	
30	Fr.	♄ Stat. • ♄ Stat. { 9.0 in R.A. • ♄ in R.A. { 10.6 <i>seem.</i>	
31	Sa.	<i>And so, farewell, be of good cheer, Looking forward to seeing you next year.</i>	Another "retired" neighbor, an out-of-stater, has served for three terms as a Selectman. Still another is completing his fourth term in our State Legislature. The management of the finances of our hospital and one of our churches is in the hands of a "retired" banker. The reality of a great rehabilitation center is due almost entirely to the efforts of a "retired" industrialist. No one can retire us but ourselves.

VENUS, MARS, JUPITER AND SATURN, 1966

MORNING AND EVENING STARS, TOO

Below are given the times of the rising or setting of the Planets named, on the first, eleventh and twenty-first of each month. The time of the rising or setting of any one of said Planets between the days named may be found with sufficient accuracy by interpolation. For explanation of keys (used in adjusting times given to your town) see pages 81-84. These appear below in capital letters.

(A Planet is called *Morning Star* when it is above the horizon at sunrise, and *Evening Star* when it is above the horizon at sunset. More precisely, it is a *Morning Star* when it is less than 180° west of the Sun in right ascension and *Evening Star* when it is less than 180° east. When the planet is near conjunction or opposition, the distinction is unimportant.)



VENUS

Venus is an Evening Star until it reaches conjunction on January 26th. It is again an Evening Star from the time of superior conjunction, November 9th, until the end of the year. Between the two conjunctions it graces the eastern sky as a Morning Star. Venus is near its peak brilliance for the year as the year begins. After some loss of brilliance thereafter it rises to its actual peak brilliance during the period from late February through early March.

JAN	1st	sets	7 07 P.M.	E	MAY	1st	rises	3 02 A.M.	J	SEP	1st	rises	3 35 A.M.	E
	11th	"	6 31 P.M.	F		11th	"	2 49 A.M.	I		11th	"	3 59 A.M.	F
	21st	"	5 37 P.M.	F		21st	"	2 37 A.M.	H		21st	"	4 24 A.M.	G
FEB	1st	rises	5 53 A.M.	L	JUN	1st	rises	2 25 A.M.	G	OCT	1st	rises	4 48 A.M.	I
	11th	"	5 01 A.M.	L		11th	"	2 15 A.M.	F		11th	"	5 13 A.M.	J
	21st	"	4 27 A.M.	L		21st	"	2 08 A.M.	E		21st	"	5 38 A.M.	K
MAR	1st	rises	4 09 A.M.	L	JUL	1st	rises	2 05 A.M.	D	NOV	1st	rises	6 06 A.M.	L
	11th	"	3 54 A.M.	L		11th	"	2 07 A.M.	D		11th	sets	4 30 P.M.	E
	21st	"	3 43 A.M.	L		21st	"	2 14 A.M.	C		21st	"	4 28 P.M.	D
APR	1st	rises	3 34 A.M.	L	AUG	1st	rises	2 29 A.M.	C	DEC	1st	sets	4 31 P.M.	C
	11th	"	3 24 A.M.	K		11th	"	2 47 A.M.	D		11th	"	4 41 P.M.	C
	21st	rises	3 13 A.M.	J		21st	rises	3 09 A.M.	E		21st	"	4 56 P.M.	C
											31st	sets	5 17 P.M.	C

MARS

Mars reaches conjunction with the Sun on April 29th. Until that date it is an Evening Star; thereafter a Morning Star for the balance of the year. Since Mars is essentially at its greatest distance from the Earth, the sum of the distances of the Earth and Mars from the Sun at the time of conjunction, it will remain a relatively faint object throughout the year.



JAN	1st	sets	6 30 P.M.	D	MAY	1st	rises	4 41 A.M.	F	SEP	1st	rises	2 09 A.M.	D
	11th	"	6 31 P.M.	E		11th	"	4 21 A.M.	E		11th	"	2 03 A.M.	E
	21st	"	6 33 P.M.	F		21st	"	4 02 A.M.	E		21st	"	1 56 A.M.	E
FEB	1st	sets	6 35 P.M.	F	JUN	1st	rises	3 43 A.M.	D	OCT	1st	rises	1 49 A.M.	F
	11th	"	6 37 P.M.	G		11th	"	3 27 A.M.	D		11th	"	1 41 A.M.	F
	21st	"	6 38 P.M.	H		21st	"	3 13 A.M.	C		21st	"	1 33 A.M.	G
MAR	1st	sets	6 39 P.M.	H	JUL	1st	rises	3 01 A.M.	C	NOV	1st	rises	1 23 A.M.	G
	11th	"	6 39 P.M.	I		11th	"	2 50 A.M.	C		11th	"	1 13 A.M.	H
	21st	"	6 40 P.M.	J		21st	"	2 40 A.M.	C		21st	"	1 03 A.M.	H
APR	1st	sets	6 40 P.M.	J	AUG	1st	rises	2 31 A.M.	C	DEC	1st	rises	12 51 A.M.	I
	11th	"	6 40 P.M.	K		11th	"	2 24 A.M.	C		11th	"	12 39 A.M.	I
	21st	sets	6 39 P.M.	L		21st	rises	2 17 A.M.	D		21st	"	12 26 A.M.	I
											31st	rises	12 11 A.M.	J

JUPITER

Jupiter is an Evening Star for the first half of the year, until it reaches conjunction on July 5th, and a Morning Star thereafter for the rest of the year.



JAN	1st	sets	6 12 A.M.	O	MAY	1st	sets	10 40 P.M.	O	SEP	1st	rises	1 27 A.M.	D
	11th	"	5 28 A.M.	O		11th	"	10 09 P.M.	O		11th	"	12 57 A.M.	D
	21st	"	4 44 A.M.	O		21st	"	9 38 P.M.	O		21st	"	12 27 A.M.	D
FEB	1st	sets	3 58 A.M.	O	JUN	1st	sets	9 05 P.M.	O	OCT	1st	rises	11 52 P.M.	D
	11th	"	3 17 A.M.	O		11th	"	8 35 P.M.	O		11th	"	11 19 P.M.	D
	21st	"	2 38 A.M.	O		21st	"	8 04 P.M.	O		21st	"	10 45 P.M.	D
MAR	1st	sets	2 08 A.M.	O	JUL	1st	sets	7 34 P.M.	O	NOV	1st	rises	10 06 P.M.	D
	11th	"	1 32 A.M.	O		11th	rises	3 58 A.M.	C		11th	"	9 30 P.M.	D
	21st	"	12 57 A.M.	O		21st	"	3 29 A.M.	C		21st	"	8 50 P.M.	D
APR	1st	sets	12 19 A.M.	O	AUG	1st	rises	2 58 A.M.	D	DEC	1st	rises	8 10 P.M.	D
	11th	"	11 43 P.M.	O		11th	"	2 29 A.M.	D		11th	"	7 28 P.M.	D
	21st	sets	11 11 P.M.	O		21st	rises	2 00 A.M.	D		21st	"	6 44 P.M.	D
											31st	rises	5 59 P.M.	D



SATURN

Saturn is to be seen as an Evening Star from the year's beginning until it reaches conjunction on March 10th and again from its opposition on September 29th until the end of the year. Between March 10th and September 29th it is a Morning Star.

JAN	1st	sets	9 29 P.M.	G	MAY	1st	rises	3 06 A.M.	J	SEP	1st	rises	7 05 P.M.	H
	11th	"	8 54 P.M.	G		11th	"	2 27 A.M.	J		11th	"	6 24 P.M.	H
	21st	"	8 20 P.M.	G		21st	"	1 52 A.M.	J	OCT	1st	sets	5 24 A.M.	H
FEB	1st	sets	7 43 P.M.	G	JUN	1st	rises	1 10 A.M.	J		11th	"	3 58 A.M.	H
	11th	"	7 09 P.M.	G		11th	"	12 32 A.M.	J		21st	"	3 15 A.M.	H
	21st	"	6 36 P.M.	G		21st	"	11 50 P.M.	J	NOV	1st	sets	2 29 A.M.	H
MAR	1st	sets	6 09 P.M.	H	JUL	1st	rises	11 12 P.M.	J		11th	"	1 48 A.M.	H
	11th	rises	6 13 A.M.	J		11th	"	10 33 P.M.	J		21st	"	1 08 A.M.	H
	21st	"	5 37 A.M.	J		21st	"	9 54 P.M.	J	DEC	1st	sets	12 29 A.M.	H
APR	1st	rises	4 56 A.M.	J	AUG	1st	rises	9 10 P.M.	J		11th	"	11 47 A.M.	H
	11th	"	4 19 A.M.	J		11th	"	8 30 P.M.	J		21st	"	11 09 A.M.	H
	21st	rises	3 43 A.M.	J		21st	rises	7 50 P.M.	J		31st	sets	10 32 A.M.	H

MERCURY

Mercury will be favorably situated for being seen as an Evening Star when near its greatest eastern elongations about March 4, June 30, and October 26. On these dates it will set 1 h. 34 m., 1 h. 30 m., and 0 h. 51 m., respectively, after sunset. It will be seen most readily as a Morning Star when near its greatest western elongations about April 18, August 16, and December 4, on which dates it will rise 0 h. 48 m., 0 h. 50 m., and 1 h. 50 m., respectively, before sunrise.

OUTDOOR PLANTING TABLE, 1966

Find the latitude of your town or city. Interpolate between columns below to find your planting date. For example, if you live in Grove City, Pa. (Lat. 41°09'35"), this would mean the latitude is about halfway between Boston-Phila. So your planting times would also be halfway between. N.B. Plant one week later for every 500-ft. elevation above sea level.

The "Moon Most Favorable" columns give the superstitious times when the phase of moon is "right" for planting the crop indicated during 1966. See also pages 38-41. For flowers, use same dates as Beans, except bulbs, for which use the Beets column. These columns show, for crops bearing fruits above ground, the "light" (new to the full) of the moon; for crops bearing fruits below ground the "dark" (full to the new).

In using the figures below, bear in mind that the Moon Most Favorable dates do not always coincide with suggested planting dates. If you go by the moon, therefore, and use the most favorable moon dates, you may have to plant slightly earlier than the suggested planting dates indicated. Use column 1 by referring to last column pages 10-32.

Above Ground Crops Best Signs: ARI, CNC LIB, ACQ, PSC Below Ground TAURUS	42°21'44" Boston Latitude		39°56'58" Phila. Latitude		33°45'10" Atlanta Latitude	
	Plant Anytime Between Dates Below	Moon Most Favorable Between	Plant Anytime Between Dates Below	Moon Most Favorable Between	Plant Anytime Between Dates Below	Moon Most Favorable Between
Barley	5-15/6-21	5-20/6-3	3-15/4-7	3-21/4-5	2-15/3-7	2-20/3-6
Beans (Early)	5-7/6-21	5-20/6-3	4, 15-30	4, 20-30	3-15/4-7	3-21/4-5
(Late)	6-15/7-15	6-18/7-2	7, 1-21	7, 17-21	8, 7-30	8, 16-30
Beets (Early)	5, 1-15	5, 5-15	3-15/4-3	3, 15-20	2, 7-29	2, 7-19
(Late)	7-15/8-15	7, 15-16	8, 15-30	8, 15	9, 1-30	9, 1-13
Broccoli (Early)	5, 15-30	5, 20-30	3, 7-30	3, 21-30	2-15/3-15	2-20/3-6
(Late)	6-15/7-7	6-18/7-2	8, 1-20	8, 16-20	9, 7-30	9, 14-29
Brussels Sprouts	5, 15-30	5, 20-30	3-7/4-15	3-21/4-5	2-11/3-20	2-20/3-6
Cabbage (E)	5, 15-30	5, 20-30	3-7/4-15	3-21/4-5	2-11/3-20	2-20/3-6
Plants (Late)	6-7/7-7	6-18/7-2	7-1/8-7	7-17/8-1	8, 15-30	8, 16-30
Carrots (Early)	5, 15-30	5, 15-19	3, 7-31	3, 7-20	2-15/3-7	2, 15-19
(Late)	6-15/7-21	6, 15-17	7, 7-30	7, 7-16	8-1/9-7	8-31/9-7
Cauliflower (E)	5, 15-30	5, 20-30	3-15/4-7	3-21/4-5	2-15/3-7	2-20/3-6
Plants (L)	6-15/7-21	6-18/7-2	7-1/8-7	7-17/8-1	8, 7-30	8, 16-30
Celery (Early)	5-15/6-30	5, 15-19	3, 7-30	3, 7-20	2, 15-28	2, 15-19
(Late)	7-15/8-15	7, 15-16	8-15/9-7	8-31/9-7	9, 15-30	9, 30
Corn Sweet (E)	5-10/6-15	5-20/6-3	4, 1-15	4, 1-5	3, 15-29	3, 21-29
(Late)	6, 15-30	6, 18-30	7, 7-21	7, 17-21	8, 7-30	8, 16-30
Cucumber	5-7/6-20	5-20/6-3	4-7/5-15	4-20/5-4	3-7/4-15	3-21/4-5
Eggplant						
Plants	6, 1-30	6, 18-30	4-7/5-15	4-20/5-4	3-7/4-15	3-21/4-5
Endive (Early)	5, 15-30	5, 15-19	4-7/5-15	4, 7-19	2-15/3-20	2, 15-19
(Late)	6, 7-30	6, 7-17	7-15/8-15	7, 15-16	8-15/9-7	8-31/9-7
Kale (Early)	5, 15-30	5, 20-30	3-7/4-7	3-21/4-5	2-11/3-20	2-20/3-6
(Late)	7-1/8-7	7, 1-2	8, 15-31	8, 16-30	9, 7-30	9, 14-29
Leek Plants	5, 15-30	5, 15-19	3-7/4-7	3, 7-20	2-15/4-15	2, 15-19
Lettuce	5-15/6-30	5-20/6-3	3, 1-31	3, 21-31	2-15/3-7	2, 15-19
Melon (Musk)	5-15/6-30	5-20/6-3	4-15/5-7	4-20/5-4	3-15/4-7	3-21/4-5
Onion Plants	5-15/6-7	5, 15-19	3, 1-31	3, 7-20	2, 1-28	2, 6-19
Parsley	5, 15-30	5, 20-30	3, 1-31	3, 21-31	2-20/3-15	2-20/3-6
Parsnip	4, 1-30	4, 6-19	3, 7-31	3, 7-20	1-15/2-4	1, 15-20
Peas (Early)	4-15/5-7	4-20/5-4	3, 7-31	3, 21-31	1-15/2-7	1-21/2-5
(Late)	7, 15-30	7, 17-30	8, 7-31	8, 16-30	9, 15-30	9, 15-29
Pepper Plants	5-15/6-30	5-20/6-3	4, 1-30	4, 20-30	3, 1-20	3, 1-6
Pumpkin	5, 15-30	5, 20-30	4-23/5-15	4-23/5-4	3, 7-20	3, 21
Potatoes	5, 1-15	5, 5-15	4, 1-15	4, 6-15	2-10/3-1	2, 10-19
Radish (Early)	4, 15-30	4, 15-19	3, 7-31	3, 7-20	1-21/3-1	2, 6-19
(Late)	8, 15-30	8, 15	9, 7-30	9, 7-13	10, 1-21	10, 1-12
Spinach (Early)	5, 15-30	5, 20-30	3-15/4-20	3-21/4-5	2-7/3-15	2-20/3-6
(Late)	7-15/9-7	7-17/8-1	8-1/9-15	8, 16-30	10, 1-21	10, 13-21
Swiss Chard	5, 1-30	5, 20-30	3-15/4-15	3-21/4-5	2-7/3-15	2-20/3-6
Summer Squash	5-15/6-15	5-20/6-3	4-15/5-1	4-20/5-1	3-15/4-15	3-21/4-5
Tomato Plants	5, 15-30	5, 20-30	4, 7-30	4, 20-30	3, 7-20	3, 21
Turnip (Early)	4, 7-30	4, 7-19	3, 15-30	3, 15-20	1-20/2-15	2, 6-15
(Late)	7-1/8-15	7, 3-16	8, 1-20	8, 2-15	9-1/10-15	9, 1-13
Wheat (Winter)	8, 11-15	8, 16	9-15/ 10-20	9, 15-29	10-15/ 12-7	10, 15-29
(Spring)	4, 7-30	4, 20-30	3, 1-20	3, 21	2, 15-28	2, 20-28

KILLING FROSTS and GROWING SEASONS

Courtesy of U. S. Weather Bureau



BEST FISHING DAYS, 1966

There are probably more "fishing calendars" sold each year than all the almanacs put together. It is likely that the more mystifying the ingredients of these calendars are, the more popular they become. Almost all agree, however, that fishing is better when 1) the barometer is rising or high; 2) when the moon is between the new and the full; and 3) when the moon is in the astrological sign of Cancer, Pisces or Scorpio. The days listed herewith are days during which two or three of the above are seen to occur.

Jan. 15, 16, 24, 25
Feb. 2, 3, 11, 12
Mar. 21-24, 31
Apr. 7, 8, 26-30
May 3, 4, 22, 23, 31
June 1, 10, 20, 23-28
July 7, 8, 24, 25
Aug. 3, 4, 13, 14, 16-22, 27-30
Sept. 9, 10, 17, 18, 21-24, 26, 27
Oct. 15, 16, 23-28
Nov. 3, 4, 20, 21, 30
Dec. 1, 17-19, 21-26, 28, 29

However, even under the best of conditions, those who know how to catch fish will be far more successful than those who don't. Some, of course, like gardeners with "green thumbs," are born that way. Others have made themselves expert in knowing the best places, hours, tackle, and lures.

Here are a few observations, taken from a room full of fishing books and clippings, which may or may not prove helpful.

Water temperatures between 55°F and 74°F are best.

The clearer the water, the better, preferably with a slight ripple.

South and West winds are the best, or any offshore breeze.

City	G.S. (Days)	Last Frost Spring	First Frost Fall
Lander, Wyo.....	123	May 18	Sept. 18
Bismarck, N.D....	133	May 11	Sept. 21
Alpena, Mich.....	141	May 13	Oct. 1
Helena, Mont.....	145	May 7	Sept. 29
Reno, Nev.....	145	May 14	Oct. 6
Marquette, Mich..	149	May 13	Oct. 9
Concord, N.H.....	149	May 7	Oct. 3
Duluth, Minn.....	152	May 6	Oct. 5
Green Bay, Wisc..	157	May 5	Oct. 9
Pocatello, Ida....	160	Apr. 29	Oct. 6
Denver, Colo.....	160	May 3	Oct. 10
Pierre, S. Dak....	160	Apr. 30	Oct. 7
Minneapolis.....	166	Apr. 27	Oct. 10
Detroit, Mich.....	170	Apr. 28	Oct. 15
Des Moines, Ia....	171	Apr. 21	Oct. 9
Fort Wayne, Ind..	171	Apr. 25	Oct. 13
Ludington, Mich..	172	May 2	Oct. 21
Albany, N.Y.....	174	Apr. 24	Oct. 15
Madison, Wisc....	174	Apr. 26	Oct. 17
Santa Fe, N.M.....	177	Apr. 25	Oct. 19
Hartford, Conn....	177	Apr. 20	Oct. 13
Toledo, Ohio.....	179	Apr. 22	Oct. 18
Portland, Maine..	181	Apr. 19	Oct. 17
Spokane, Wash....	182	Apr. 14	Oct. 13
Parkersburg.....	184	Apr. 17	Oct. 18
Omaha, Nebr.....	184	Apr. 14	Oct. 15
Salt Lake City....	185	Apr. 18	Oct. 20
Chicago, Ill.....	186	Apr. 16	Oct. 19
St. Joseph, Mo....	191	Apr. 9	Oct. 17
Trenton, N.J.....	191	Apr. 16	Oct. 24
Springfield, Mo..	193	Apr. 12	Oct. 22
Boston, Mass.....	195	Apr. 14	Oct. 26
Wichita, Kans....	197	Apr. 9	Oct. 23
Cincinnati, Ohio..	198	Apr. 8	Oct. 23
Lewiston, Ida....	201	Apr. 6	Oct. 24
Harrisburg, Pa....	202	Apr. 9	Oct. 28
Evansville, Ind....	207	Apr. 5	Oct. 29
Cairo, Ill.....	212	Mar. 31	Oct. 29
Richmond, Va....	216	Mar. 31	Nov. 2
Roseburg, Ore....	217	Apr. 8	Nov. 11
Oklahoma City....	218	Mar. 30	Nov. 3
Chattanooga.....	220	Mar. 29	Nov. 4
Raleigh, N.C.....	223	Mar. 27	Nov. 5
Little Rock, Ark..	241	Mar. 18	Nov. 14
El Paso, Tex.....	242	Mar. 19	Nov. 16
Tucson, Ariz.....	243	Mar. 11	Nov. 9
Macon, Ga.....	245	Mar. 14	Nov. 14
Columbia, S.C....	246	Mar. 17	Nov. 18
Montgomery, Ala..	250	Mar. 8	Nov. 13
Shreveport, La....	251	Mar. 6	Nov. 12
Portland, Ore....	251	Mar. 15	Nov. 21
San Bernardino...	259	Mar. 8	Nov. 22
Eureka, Calif....	277	Mar. 16	Dec. 18
Del Rio, Tex.....	277	Feb. 23	Nov. 27
Sacramento.....	283	Feb. 19	Nov. 29
Phoenix, Ariz....	296	Feb. 10	Dec. 3
Yuma, Ariz.....	334	Jan. 20	Dec. 20
San Francisco....	350	Jan. 13	Dec. 29
Los Angeles.....	•	•	•
Miami, Fla.....	•	•	•
San Diego.....	•	•	•

*Frosts do not occur every year.

PART TWO

Secrets of the Zodiac & Planets

(Being the interpretation, astrologic, and just for fun,
Of all serious scientific data in Part One.)

FAMOUS DEBOWELLED MAN OF THE SIGNS

- ♈ Aries, head. ARI
Mar. 21-Apr. 19
- ♉ Taurus, neck. TAU
Apr. 20-May 20
- ♊ Gemini, arms. G'M
May 21-June 20
- ♋ Cancer, breast. CNC
June 21-July 22
- ♌ Leo, heart. LEO
July 23-Aug. 22
- ♍ Virgo, belly. VIR
Aug. 23-Sept. 22
- ♎ Libra, reins. LIB
Sept. 23-Oct. 22
- ♏ Scorpio, secrets. SCO
Oct. 23-Nov. 21
- ♐ Sagittarius, thighs. SGR
Nov. 22-Dec. 21
- ♑ Capricornus, knees. CAP
Dec. 22-Jan. 19
- ♒ Aquarius, legs. AQR
Jan. 20-Feb. 18
- ♓ Pisces, feet. PSC
Feb. 19-Mar. 20



Man of the Signs used by Abe Weatherwise, 1784

These signs, abbreviated, appear for each day on pages 10-32. Their meaning is given on pages 38-41. The illustrations, pages 39-41, are the actual patterns as seen in the sky by the ancients (see Hygini, Augusti Liberti, 1570).

Go, go by your sign, Pages 39-41, whichever your birth date indicates is the one;

But remember, each day in '66 also has a sign of its own (Pages 10-32), which adds to the fun

By influencing daily the Astrological meanings derived from your place under the sun.

Born—or weren't you?—like Abraham Lincoln on Feb. 12? Then your sign is AQUARIUS.

Now see Page 12 for the date. AQUARIUS, you see, for that day with SCORPIO is VICARIOUS.

About all this, of course, we aren't at all serious—we just think it's hilarious.

The best superstitious times for the activities listed below (regardless of your sign) appear under each sign on pages 39-41. For the best hairdo just find (Pages 39-41) the sign(s) under which "K" doth appear—namely, TAU, CNC, LEO, VIR, LIB, SGR, AQR. Then pick your day of the month from pages 10-32 against which any of these signs appear (next to last column). In January, for example, this year any day except Jan. 3, 4, 14-16, 20, 21, 24, 25 would seem to be favorable for hairdos—and buying new clothes.

- | | |
|----------------------------------|--------------------------------------|
| A Cut brush, grass, pull weeds. | H Weaning. |
| B Cut, set posts, timbers. | I Slaughtering. |
| C Ail pruning, cut hay. | J Operations, pull teeth, etc. |
| D Plant above-ground crops. | K Do hair, shear sheep, buy clothes. |
| E Plant root crops, paint house. | L Business, taking risks. |
| F Harvest crops, herbs. | N Travel, marriage, romance. |
| G Breed, create, bake, set hens. | M Fishing. |

ARIES

ABBR: "ARI" SIGN: LAMB

Controls the head and face

Belongs to those born Mar. 21-Apr. 19

Ruling Planet, Mars; Birthstone

Jasper or Bloodstone; Color, Red.

Best for D, L, G, F, I.

ARIES, termed by the ancients the House of Mars, Means you Martians must keep out of bars. You are fearless, hot-tempered, and can be a fool— Except when Mercury (Page 34) or the Moon keep you cool. Be a leader—in things scientific, keep using your brain In medicine, handicrafts, computers, TV or forecasting rain.

**TAURUS**

ABBR: "TAU" SIGN: BULL

Controls the throat and neck

Belongs to those born Apr. 20-May 20

Ruling Planet, Venus; Birthstone

Diamond or Sapphire; Color, Blue.

Best for E, K, B, I, F, G.

TAURUS houses Venus (see Page 34), the Goddess of Love, Who cares not for caresses on her planet above. Taurians do well in much rain—even floods But stick with building, artwork, and flowering buds. You are athletic, for sure, but inclined to be stout; You should learn right now what calories are about.

GEMINI

ABBR: "G'M" SIGN: TWINS

Controls shoulders, lungs, arms, hands, and the nervous system.

Belongs to those born May 21-June 20

Ruling Planet, Mercury; Birthstone,

Emerald; Color, Light Grey.

Best for J, G, L, A, I, F.

GEMINI, the twins, produces superior people, Intellectuals, inventors, sharp as a steeple. Cast not your pearls among dull, dirty swine— Remember you are genll, bound to rise—and shine. Stay with Mercury (Page 34) for your very best work; All other planets, jealously, would see you a jerk!

**CANCER**

ABBR: "CNC" SIGN: CRAB

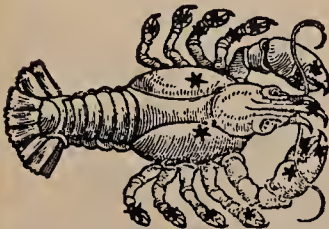
Controls breast and stomach

Belongs to those born June 21-July 22

Ruling Planet, Moon; Birthstone,

Agate; Color, Green.

Best for D, M, K, G, I, A, C.



CANCER'S a crab, not a disease, so-called—see opposite page— For reasons that anything shilly-shally is real hard to gauge. This means you do best during all rising moons; You are versatile, can do all, from teach to craft spoons. You should try lots of ventures, first one then another 'Till you hit the right one, and then—Oh, Brother!

LEO

ABBR: "LEO" SIGN: LION

Controls the heart

Belongs to those born July 23-Aug. 22

Ruling Planet, Sun; Birthstone,
Ruby; Color, Red.

Best for K, B, A, F, N.

LEO's the boy who just loves the Sun.

(You never see a lion in snow, ice, or sleet having fun!)

The tropical life all Leos should live, or keep thermostats up to their peak.

At politics, church work, charity, sports, selling cars you're magnifique.

You are lucky, outgoing, often red-headed, have a terrible voice. But your hot temper will win girl and career of your choice.

**VIRGO**

ABBR: "VIR" SIGN: VIRGIN

Controls the lower intestines

Belongs to those born Aug. 23-Sept. 22

Ruling Planet, Mercury; Birthstone,
Sardonyx; Colors, Onyx and Carnelian.

Best for J, K, L, A, I, F.

VIRGO, the Virgin (now that, astrologically,
the year's half done)Relies (Page 34) a great deal on Mercury for
your fun.Pay attention to that—but remember you'll
do bestAt anything ingenious, economical, with thrift
as your zest.This could mean accounting, cost-cutting,
building machines;Run always for Treasurer and all that high
office means.**LIBRA**

ABBR: "LIB" SIGN: SCALES

Controls the loins

Belongs to those born Sept. 23-Oct. 22

Ruling Planet, Venus; Birthstone,
Chrysolite; Color, Crimson.

Best for D, N, K, G, I.

LIBRANS go well when Venus (Page 34) is high—

Especially with Saturn too in the sky.

This seventh house harbors doctors, lawyers, printers, ETC.

Veterinarians, careers professional will as simple as ABC be.

The moon and Mercury both favor this sign;

Under both, your sex life should be absolutely divine!

**SCORPIO**

ABBR: "SCO" SIGN: SCORPION

Controls the generative organs

Belongs to those born Oct. 23-Nov. 22

Ruling Planet, Mars; Birthstone,

Aquamarine or Opal
(Blue Green or Black)

Best for M, G, I, A.



SCORPIO has Mars (again see Page 34) as its ruler above.

And you've got to restrain yourselves in matters of love.

Pay attention to business—be a contractor, voyager, or cop.
Don't jump fast in any direction—take it easy—even when working
a mop.

You've a wide choice of career—almost any will do—

But remember again l'amour peut-être ce n'est pas pour vous.

SAGITTARIUS

ABBR: "SGR" SIGN: ARCHER
Controls the thighs

Belongs to those born Nov. 23-Dec. 21
Ruling Planet, Jupiter; Birthstone,
Topaz; Color, Purple.

Best for J, N, K, F, I, H.

SAGITTARIANS have Jupiter (Page 34) as their pride and joy; With him and his arrow, the world's but a toy. Be big business, champion sport, expert dlognostician— People from all walks of life will pay your tultion. But listen, jolly fellows, keep active and fearless, If you want to be popular, wealtry, and tearless.

**CAPRICORNUS**

ABBR: "CAP" SIGN: GOAT
Controls the knees

Belongs to those born Dec. 22-Jan. 19
Ruling Planet, Saturn; Birthstone,
Turquoise; Color, Sky Blue.

Best for J, G, I, H.



CAPRICORNUS means you want both Saturn and Mars To keep away nightmares, depression, and all evil stars. You'll do well in business, rellgion, science, all idea jobs, But beware of the crafty, the subtle, the parsimonious slob. Your travels should include India, Greece, G.B., and Mexico— Then this favorable sign will be with you wherever you go.

AQUARIUS

ABBR: "AQR" SIGN: WATER BOY
Controls the legs

Belongs to those born Jan. 20-Feb. 18
Ruling Planet, Uranus; Birthstone,
Garnet; Color, Mixed.

Best for D, K, B, I, H, A.

AQUARIUS has Saturn too for your pleasure. When it's shining, for your capabilities there's no measure. You'll have all the questions and answers man wants to know, So how about running a hospital, or museum, or any big show?

As its manager your vast knowledge will certainly contribute Much happiness, love, advice—and freedom to boot.

**PISCES**

ABBR: "PSC" SIGN: FISH
Controls the feet

Belongs to those born Feb. 19-Mar. 20
Ruling Planet, Neptune; Blrthstone,
Amethyst; Color, Marine.

Best for D, M, B, G, I, H, C.



PISCES, planetarily, houses Neptune, Jupiter, and Venus; their virtue

Will banish anxiety, self-pity, and all ills flesh is heir to. Provided you accept your place as the leader In politics, of an army, or of starving people as their feeder. Have no thought of mundane rewards or of pay, Not charging for services rendered will be the joy of each day.



SCIENTIFIC PROGRESS

1964-65

A summary of developments in various fields of endeavor of presumable interest to lay readers. Sources (available on request) are scientific journals published from May 1964 through April 1965.

LANGUAGE & EDUCATION

To nuclear scientists, a "Barn" is now a unit of measure of atom cross sections. A "Doll" is a unit of reactivity. A "Pig" is a radio-isotope container. A "Scram" is a sudden shutdown. If you desire an intelligent conversation with nuclear scientists, you will need to understand their vocabulary. For free glossary, write for NUCLEAR TERMS, USAEC, Box 62, Oak Ridge, Tenn. 37831.

The new mathematics is said to raise a youngster from a level of 1750—the mathematical sophistication of fathers and grandfathers—to a level of 1900. The new math is still, however, "in flux," and even as this appears in print may be old. It is explained by different teachers and sponsors in different ways. Your child's or grandchild's teacher probably is your best tutor.

PALM READING

The Division of Chronic Diseases, Public Health Service, Washington, D.C. is conducting examinations of some 5000 individuals to determine whether or not patients with neurological disorders have finger and palm patterns different from normal people. Results are expected to be useful in early diagnosis of abnormalities.

BIOCLIMATOLOGY

If you have gone into a department store lately intending to do a little shoplifting for a few things you've been needing around the house, and come out in high spirits after having bought more than you had originally intended to steal, then an experimental admixture of negative ions in the air conditioning may have been at the bottom of it.

This is but one facet of the barely-explored possibilities inherent in the vast field of bioclimatology—a science linking barometric pressure to human health and disposition. Such former mysteries as the foreboding ache in rheumatic joints, spookiness in livestock, and the increase in crime and suicide rates that precede a storm or accompany a full moon are now scientifically related to ions. Twenty-five years of study have demonstrated that sudden drops of pressure and temperature, certain unseasonal winds, high humidity or concentration of ozone without doubt precipitate major pathologies—and, by the same token, are remedied when contradicted by manufactured, controlled ionization.

When molecules of the gasses in the air, chiefly oxygen, nitrogen and carbon dioxide, gain electrons, they are known as negative ions. Conversely, when they lose electrons, they become positive ions.

Both positive and negative ions are being continuously formed in nature by storms, radiation, winds, etc. Thus, the air we breathe is filled with positively and negatively charged ions which are circulated through the body by the blood stream. It is theorized that negative ions increase the blood's capacity to use oxygen, while positive ions decrease this ability. Negative-ion inhalation is responsible for an increase in the sense of well-being.

Negative ions have a definite sedative effect, alleviate pain, relieve hay fever and asthma victims temporarily, have a therapeutic effect on burn victims, and promote healing in certain types of wounds.

Some members of the National Retail Merchants Association have considered availing themselves of the latest advances of this scientific project, both to woo the good customer and repel the one with abstracting designs. It is felt that an experimental introduction of negative ions under carefully controlled conditions, such as a large department store allows, could be expected to show two highly desirable results: (a) The volume of shoplifting and internal theft should decrease; (b) Productivity and sales should rise.

To the layman it might seem that this could work out as something of a considered risk for the experimental merchant. For there is always the possibility that a few deep breaths of ion-enriched, department-store air would huck up a shoplifter to the extent that she would achieve new heights of kleptomania. Here, however, Science and the store dick may be playing it close to the vest, having the whole caper taped in advance.

The run-of-the-mill basement browser should not be left without a word of caution, as the jungle is closing in on her: first, the White Sale, then the charge account, motivational research—and now the negative ion. *Caveat emptor, indeed!*

Courtesy: Liam Dougherty

NUCLEAR DETECTION

Also, the skeptical should beware. During 1964 a nuclear technique was admitted for the first time as acceptable court evidence. The four court cases to date included analysis of dirt, adhesive tape, paint, autohody filler compound, and concrete. In cases pending (75), some 500 samples of physical evidence are involved—including that real old-fashioned proof of guilt, human hair.

WOOD PLASTICS

Last year in this place was mentioned the new family of wood-pastic materials using radiation which hardens natural wood 300%, gives it more compression strength, adds resistance to warping, and to bending. The new wood retains natural grain and color, can be treated as natural wood, dyed, and made flame-retardant. Further information for those interested in manufacturing or distributing this new wood is now available from: ABC, West Virginia University, Morgantown, W. Va.; A. D. Little Co., Cambridge, Mass.; Vitro Engineering Co., N.Y.C.; and Research Triangle Institute, Raleigh, N.C. As one of the top-ten scientific advances in 1964, and this wood plastic now ready for full commercial use, early birds in the field will undoubtedly be handsomely rewarded.

DESALINATION

Desalination, the making of fresh water from sea water, is at this writing being accelerated through the U.S. Department of the Interior, the Atomic Energy Commission, and the U.S. Office of Science and Technology. Further, an important treaty in this regard was signed November 18, 1964 with the U.S.S.R. The relating of large-scale nuclear power to that of desalting technology may mean water shortage problems will soon be relegated to the past. An intermediate-size plant, with capacity between 15 and 150 million gallons per day, today could be expected to produce fresh water at 33¢ per thousand gallons with "credits of 3.65 mills per kilowatt hour and 7 percent fixed charges." Investors have already shown interest in desalination—especially in companies now prepared to supply the necessary machinery.

MEDICAL

Radio-isotopes are found to be useful in the treatment of certain blood diseases, thyroid cases, intractible angina pectoris, and chronic heart failure; of liver troubles and brain tumors; of growths on or in the eye; in cancer studies. Whole-body radiation is a new development which may lead to a radical lengthening of the life span itself. There are hopeful expressions that a not-too-distant future generation may be counting, through whole-body radiation, its age in units other than years. Entirely apart from nuclear involvements, other medical progress is apparent in such directions as pollution control. Perhaps the most remarkable achievement in recent years is the reduction, through Salk Vaccine, of polio cases from 28,000 in 1954 to only 121 in 1964.

SUPERSONIC TRANSPORT

Proposed supersonic jets will fly to London from New York in about two hours—one-third present jet time. Passenger capacity, increased airline earnings, and defense considerations are among expected benefits. Objections are found in necessarily high invest-

ment expense—both in the jets themselves and in larger airfields. Some of the bugs yet to be worked out include sonic boom noise damage, radiation exposure to passengers and crews, and design. Jet planes have been reducing flying fatalities at a rate of about 3 to 1, but it is feared one extreme failure of the supersonic type would set aviation back more years than the advantages of having this type of plane seem to warrant. After all, the "little old lady" who pays her way to be whisked to Madrid in two hours instead of five could presumably be just as happy in the three hours she waits in New York as in the three extra hours she gets in Madrid?

OCEAN

Automatic equipment (called SNAPS) is replacing manned light-ships and lighthouses. Automatic buoys are also being stationed in various places in the oceans to report weather and fishing conditions. This service will be of great value to navigation. Fifty-one U.S. submarines, and a fleet of three U.S. high-speed Navy ships are now propelled with atomic energy. This provides a non-fueling range of some 50,000 miles or more—and eliminates fuel oil or coaling bases. Venture Mohole will start, in 1968, drilling a hole in the ocean floor some six miles deep to penetrate, for the first time, the earth's outer crust. The Sediment (SNAP-7E) Density Meter (an underwater rocket) has been developed to investigate to an ocean-bottom depth of 11 sedimentary feet. Sea Lab I, the Navy's new undersea laboratory, complete with observation porch and garage, should become safe to operate at the 200 foot level. Other diving chambers already operate below 36,000 feet (Trieste II), and there are numerous vehicles designed for intervening depths. Fog Detector III is extremely accurate at distances which will allow significant increase in traffic safety. A British Ocean Weather Ship, equipped with Wave Records, reports it holds the record for measuring, in 1961, the height of an ocean wave: 67 feet. The non-instrument record is a wave encountered by the U.S.S. *Ramapo* in 1933—a monster of 112 feet.

FALLOUT

In 1958, two Russian nuclear tests, four American and one British, filled the atmosphere with deposits of Strontium 90, Cerium 144, Rhodium 102, Tungsten 185—all radioactive. There were no large-scale tests from the end of 1958 until September 1961. The Atomic Energy Commission and United States Weather Bureau—up to now—have not chosen to relate for the public the effect of such debris on the weather. Presumably, the quantity of debris from such tests is so small (compared with that of volcanic eruptions which have been seen to affect weather—see page 46) there is little to be said.

However, for the first time, to our knowledge, the U. S. Weather Bureau did release (Nov. 15, 1964) a Global History of this 1958 nuclear debris and did indicate certain meteorological implications from it. The Soviet tests of September and October 1958 reached about 20 km. Its debris descended at the rate of about 2 km. per month until March 1959 onto the Northern Hemisphere. The U. K. tests (September 1958) reached about 18 km. in equatorial latitudes. The Johnson Island (U.S.) tests with rockets reached from 43 km. to as high as 300 km. and their debris was found at 23 km. in March 1959. From high altitude polar reservoirs, it moved down into northern latitudes at the rate of 1.5 km. per month. South of 35° N. Lat., debris apparently was not as evident. The Marshall Islands tests in July 1958 seem to have remained at about the 18 km. level between 25° and 35° N. Lat. but to have ascended to higher altitude north of there. There was virtually no Soviet debris in the Southern Hemisphere in 1959. This was also observed after the 1961 Soviet tests. Although surface level air content of Cerium and Strontium remained similar to the stratosphere content, and there seems to be a relation between the jet stream (25° Lat. N.—35° Lat. N.) and surface air debris content, no cause and effect relationship has been resolved. About the most that can be said is the debris from the Pacific moves downward and southward into Northern Hemisphere positions from about 50° Lat. N. It would not seem, offhand, that these tests of 1958 had any major effect, one way or the other, on the weather of 1959, 1960 or 1961 to the extent, in any event, that a good-sized volcanic eruption would have. Which is not to say these tests are not dangerous. They are, if only for the reason

that any severe down draft from a high concentration of debris at the 20 km. level could bring with it deposits which might well approach harmful levels.

MAGNETISM

Bats, it has long been supposed, have built-in radars which steer them away from obstructions. This past year a mathematician has suggested that pigeons have "sensors" in their eyes which, governed by the earth's magnetic fields, in turn lead them home. Moths, fish, swallows, even mud snails, are now thought, through built-in biological clocks, to respond to not only magnetic fields but the position of the sun. The great Snowy Owls did not return to the United States from the Arctic this past year—the cyclical year in which they were supposed to; it may well be they will appear this year.

POISONS AND POLLUTION

About 700 mammal hunters and some \$6 million were engaged west of the Mississippi this past year in rodent and predator control. "Ten-eighty" is the most commonly used poison. In other areas of the country, sprays such as DDT are being widely used in insect control. The poisons and sprays, of course, do not care what they kill, nor do the public agencies care too much on whose land the killing takes place. In a "controlled" economy, it is not likely that those in control are likely to allow nature to proceed in its own predestined and wondrous way either.

M. Nelhurger, U. of Cal. scientist, is of the opinion that by 2064, the earth's atmosphere will be so full of smog that the entire world population will suffocate. He suggests government control of the air in behalf of the population—the substitution of electric for internal-combustion engines, etc.—before it is too late. In a modest way, the government is now "moving in" on those polluting the air, rivers, and oceans. Certain oil companies, such as Jersey Standard, however, have already found ways and means to eliminate fuel oil dumping from tankers—a practice which has been disastrous to beaches—as well as to birds.

Petrochemistry, the business of making by-products from crude oil and natural gas, has, up to now, been chiefly engaged in products for weed and insect control. Out of this industry, however, are now appearing great quantities of nitrogen fertilizers. A petroleum mulch is being used to promote growth and a black petroleum spray on large arid tracts is being considered as, possibly, a rain-maker. The growing of a protein food from crude oil by synthesis could, it is now believed, supply the entire daily protein deficiency of the world's hungry people from only 1% of the world's daily production of crude oil.

REGIONAL DENUDATION

The rate of denudation (levelling by erosion) is now seen to be 6.5" per 1000 years in Colorado, 1.5" Columbia Basin, 3.6" California, 2.1" Western Gulf in Mexico, 2.0" Mississippi watershed, 1.8" South Atlantic, 1.9" North Atlantic.

NEUTRON FLUX

The world's highest neutron flux, 4.2 quadrillion neutrons per square centimeter per second, was achieved March 4, 1965 at the Savannah River plant of the A.E.C. This has been described as one of the most exciting efforts in contemporary science—which could lead to discoveries even more important than that of atomic fission.

GENERAL

Already too well publicized to need more than mention here were America's two-man orbit, the Russian somersault in space, the television satellite, the weather satellites, the moon pictures, nuclear excavation, etc. Widespread conjectures about life on other planets range from the possibilities of fungus to intelligent beings. A report from Russia about radio messages being received from outer space in code was discounted as improbable. It has not been proved by any scientist(s) that life exists except on this planet—nor, we might add, has it been proved that it does not exist.



THE 150th ANNIVERSARY OF THE COLD SUMMER OF 1816

*Then came the summer which was no summer;
But only a winter painted green.*

Of the fourteen great events of 1816, its cold summer will be longest remembered. Even now, 150 years later, that year is spoken of as "1816 and near froze to death." At least one Vermont farmer, according to the recollection of his nephew, James Winchester, was frozen to death in the great snowstorm of June 17 of that year.

"I was at my uncle's when he left home to go to the sheep lot, and as he went out the door he said, jokingly, to his wife: 'If I am not back in an hour, call the neighbors and start them after me. June is a bad month to get buried in the snow, especially when it gets so near July' . . . Three days later, searchers found him . . . frozen stiff."

One old man, James Gooding, became so hopeless over the unseasonable weather that he killed all his cattle and hanged himself. The Rev. Thomas Robbins of E. Windsor, Connecticut kept a diary of that cold year. It tells of a man in Maine freezing to death, of a foot of June snow in the Berkshires, and ice in Massachusetts that would bear the weight of a man. The entire corn crop, except in fields nearby ponds or the ocean, failed. Suicides were not uncommon: drought, financial panic, and lack of food goaded many to desperation. Hall stones heat the blossoms of all fruit trees. All through July heavy frosts—and occasional ice storms—were commonly seen. Most people took off their winter clothing, only to have to put it on again. So many young (and old) birds were frozen that but a few birds were around New England in the following three years.

Caiah Emery of Lyman, New Hampshire visited a well in his town that was completely frozen over on the 4th of July—8" below the surface of the earth—and it remained that way until the 25th. The 120-day drought, which began in August, created fearsome forest-fire conditions—and led to fires which only the November snows could quell. Sheep froze to death in their pastures. Mackerel had to be introduced as a main course instead of pork and beef.

Hay went as high as \$1.50 a ton. Emerson Hale, a Rindge, New Hampshire farmer, who had held his over in large barns for 20 years, even sold that at \$50. "Going down to Egypt" was how these cropless farmers put it when they found they had to buy hay for the first time in their lives.

One farmer near Tewksbury, Vermont built fires around his cornfield to keep off the frost. Every night he and his men kept up those fires. His reward was in harvesting the only crop of corn in that region. On Indian Hill (now Christian Hill) in the village of Ashland, New Hampshire there is a gravestone in honor of Reuben Whitten (1771-1847). The inscription reads: "Son of a Revolutionary Soldier, a pioneer of this town. Cold Season of 1816 raised 40 bushels of wheat on this land which kept his family and neighbours from starvation."

On March 13, 1929, newspaper men were made happy by an announcement that John K. Frahan, then Postmaster of the Maine House of Representatives, had something to show them. It was an ear of corn of the old-fashioned, 8-row variety, about 6" long and 1-¼" thick. It had been grown in the town of Canton, Maine in the summer of 1816 by one Daniel Childs. We wonder if it is still there in Augusta?

Elsha Clark of China, Maine, according to his granddaughter, Nelle Clark Strong of Somerville, Massachusetts, "often picked Baltimore orioles off the branches of orchard trees in that cold summer and brought them into the house to warm them up."

Elder Job Seamans of Grafton, New Hampshire recorded in his diary of August 18, 1816: "The heaven that is over our heads is as

the earth under us, as iron, and the rain of our land has become as powder and dust. We are anxiously inquiring what shall we eat, what shall we drink, and where with all shall we be clothed."

In sum, as one anonymous poet put it:

*The trees were all leafless, the mountains were brown,
The face of the country was scathed with a frown;
And bleak were the hills, and the foliage sere
As had never been seen at that time of year.*

Little more perhaps may need be said about this year of 1816, except that its January was one of the warmest on record, and that it was not without its humor. According to Sidney Perley, Jacob Carr of Weare, New Hampshire used to boast of potatoes he picked that year that ran 500 bushels to an acre and nary a one was picked up until it was the size of a tea kettle. However, the anniversary of this cold summer should not be passed over without at least a cursory examination of what were thought to have been the causes of the phenomenon.

"The sun's rays seemed to be destitute of heat throughout the summer; all nature was clad in a sable here." Thus reads a report in the *Albany* (N.Y.) *Almanac* of 1852, which was based on its old-time records.

"During the entire season the sun arose each morning as though in a cloud of smoke, red and rayless, shedding little light or warmth and setting at night as behind a thick cloud of vapor, leaving hardly a trace of its having passed over the face of the earth." So reads the back file of the *American Magazine of History*.

"What would happen," speculated the *North American Review* in that year, "if the sun should become tired of illuminating this gloomy planet?"

Nobody, apparently, had an immediate answer. The anonymous author of the *Physician's Almanack*, published in Boston in 1817, quoted Ferguson—a prominent astronomer of that time—to the effect that planets in the same quarter of the heavens, from their mutual attractions, create disturbances. This *Almanack* also pointed out that the ancients believed that the varying distance between moon and earth might influence the seasons. And it referred, as Dudley Leavitt (another astronomer and almanac maker of that day) felt, to the numerous spots on the sun which were observed in 1816. Some felt them to be supernatural—and ominous. These spots were observed by telescopes; on some days with the naked eye. Leavitt attributed the Cold Summer of 1816 to these spots. It was his contention that their numbers (and sizes) were such that they could easily have caused this cold season. It remains difficult at this writing to agree with Leavitt. Sunspot counts of much greater numbers have not, since then, provided the world with any such phenomenon as this one. Nevertheless, it is true that the sunspot count of 48.7 for May 1816 was the absolute peak in the sunspot cycle which had begun at zero in the year 1810. Modern science recognizes a correlation of sorts—just what nobody knows—between sunspot cycles and weather. So Leavitt's surmise some day may be proved a correct one.

However, a more likely cause seems to have been the volcanic eruption of Mt. Tamboro, a 13,000-foot volcano on the island of Sumbawa, near Bali, in the East Indies. This happened in April of 1815 and was one of the greatest volcanic eruptions in history—its toll no less than 56,000 lives. The volcanic dust from this eruption was blown into the stratosphere in such quantities that it covered the earth like a great cosmic umbrella, dimming the sun's effectiveness that whole cold year. Such an eruption would explain the appearance of the 1816 sun as "in a cloud of smoke."

To which must be added the conjectures produced by a complete eclipse of the sun on May 26, 1816—and of the moon on June 9 . . . ; and the "greater number of conjunctions of the planets than usual," which would favor, wrote old Robert B. Thomas, Editor of this *Almanack*, "old maids and bachelors." He, according to an apocryphal story which goes back to as early as 1846, had predicted for July 13, 1816 "Rain, Hail and Snow"—all three of which, greatly to his amazement, did fall on that day.

(The list of the 40 sources used in the foregoing, and of the other 13 great events of 1816, will be supplied upon receipt of 25¢ and a self-addressed envelope at the offices of this Almanac. Address: OFA, Yankee, Inc., Dublin, N. H. 03444.)

Anecdotes and Pleasantries

UNIQUE EVENTS OF 1916

W. R. Bagley, Muncie, Ind., claimed the piano-endurance record, having played continuously for 50 hours and 5 minutes.

In a suit in Scott County, Iowa, for the recovery of an automobile by a man from a woman, the woman averred that the car had been given to her in exchange for a kiss, and she was upheld by the jury.

L. E. Cole, Bangor, Cal., in 1916 received a letter written to him by his brother on December 2, 1864.

On May 23, Patrick Harmon reached City Hall, NYC, having walked backward every step of the way from Seattle. He made the trip in 239 days and won a wager of \$5,000. He was allowed 260 days.

World Almanac, 1917

THE ONLY ROAD

Henry the Fourth of France was much enamoured of a lady who used to attend the court. The prince one day, in a gallant humour, said to the lady, "Pray, Madam, which is the way to your bed-room?" "Through the church," said she.

FISHERMAN'S LUCK

It must be the best kind of "fisherman's luck" which brings an historical character to help fish. Mr. William Wainwright, a survivor of those who fought on the old Kearsarge in her famous duel with the Alabama, tells the Exeter News-Letter of such a happening that took place in that pleasant New Hampshire town.

One afternoon more than forty years ago Mr. Wainwright, then a young man, sat on the easterly bank of Fresh River just below Great Bridge, fishing for eels. The eels were biting vigorously, and by the use of two alder poles and lines the fisherman's basket was steadily filling.

Late in the afternoon Mr. Wainwright noticed a stranger standing on the bridge and apparently deeply interested. In a little while he came to where Mr. Wainwright was sitting, and asked if he might join in the fishing, a

privilege which was promptly granted by the delivery of one of the alder poles.

The luck continued good, and the basket was finally filled by the joint exertions of the fishermen. As the afternoon was drawing to a close the stranger had the misfortune to break his pole, and the line with a part of the pole floated away. He tried to pay Mr. Wainwright for the broken pole, but the offer was declined.

On the evening of the same day there was a political meeting in the town hall, which Mr. Wainwright attended. He was surprised to find that the speaker of the evening was his fellow fisherman, and the name by which he was introduced was Abraham Lincoln.

Youth's Companion, 1901

METHODIST BICENTENNIAL

This question is being discussed with considerable spirit. It is 1760 versus 1766. It is possible that Philip Embury preached in this country prior to 1766. It is probable, perhaps quite certain, that Robert Strawbridge both preached and baptized children, in this country, prior to 1766. But it appears to us that the real date of the origin of Methodism in this country is when it developed organic life; assumed a living, self-perpetuating form; entered upon its actual and historical career. This was unquestionably in 1766.

STAN' UP AN' GET HIT

Luck loves the hard hitter and glorifies grit,

An' smiles on the man who stan's up an' gets hit;

Though fate strikes out strong, with a blow 'twixt the eyes,

It loves the stout soul who still fights and defies.

The fight is not gained by the strong or the fleet,

But by the grim chap who don't know he is beat.

This life is a fight that has got to be fit,

The best thing you can do is stan' up an' git hit.

San Foss

THE VILLAGE ORACLE

"Old Dan'l Hanks he says this town
Is jest the best on earth;
He says there ain't one, up nor
down,
That's got one half her worth;
He says there ain't no other state
That's good as ourn, nor near;
And all the folks that's good and
great
Is settled right round here.

"Says I, 'D'jer ever travel, Dan?'
'You bet I ain't,' says he;
'I tell you what, the place I've got
Is good enough fer me.'

"Some fellers reckon, more or less,
Before they speak their mind,
And sometimes calkerlate or
guess,—
But them ain't Dan'l's kind.
The Lord knows all things, great
or small,
With doubt he's never vexed;
He, in his wisdom, knows it all,—
But Dan'l Hanks comes next.

"Says I, 'How d'yer know you're
right?'
'How do I know?' says he;
'Wall, now, I vum, I know, by
gum,
I'm right because I be.'"
Joseph C. Lincoln

DEXTERITY

The peasants in Catalonia drink
without touching the mouth of
the bottle with their lips. The
height from which they let the
liquid fall in one continued
stream, without missing their
aim, or spilling a drop, is sur-
prising. The orifice of the bottle
is small, however, and from in-
fancy they learn to swallow with
their mouths wide open.

KISSING

When we dwell on the lips of the
girl we adore,
What pleasure in nature is
missing?
May his soul be in heav'n—he de-
serves it, I'm sure—
Who was first the inventor of
kissing.

Master Adam, I verily think, was
the man,
Whose discovery can ne'er be
surpast;
Then since the sweet game with
creation began,
To the end of the world may it
last!

BIBLICAL MEASURES

A cubit equals 1.8 feet; a para-
sang, 4 miles, 153 paces, and 3
feet; a day's journey, 33 miles, 172
paces, and 4 feet; a talent of sil-
ver, \$1,505.63—of gold, \$24,309.00.

HOME OF THE LEMURIANS

History for several centuries
now has supposed that the Le-
murs, or monkeys with pointed
noses, at one time inhabited a
now-sunken continent in the In-
dian Ocean. This continent is
said to have risen to become what
is now Madagascar.

However, what with flying sau-
cers, VFO's, and all that, the
California and Oregon press in
recent years has been quoting
others as believing Mt. Shasta
is now the last refuge of these
Lemurians.

A business man, who saw
strange lights from a train on
this mountain, is said to have
made an investigation of what
he had seen, using as his base
the town of Weed, Oregon.
There he is said to have learned
the townspeople had made many
attempts to reach the homes of
these Lemurians—always without
success.

A Professor Edgar Larkin has
reported seeing, through his tele-
scope, Lemurian villages with
temples of marble—and 600 to
1000 inhabitants.

Respectable citizens are report-
ing trades with these "people"
over their own counters and re-
ceiving gold in exchange. It
could be, if there are "abom-
inable snowmen" in the Hima-
layas, that Uncle Sam—not to be
outdone—has the Lemurians on
Mt. Shasta? This Almanac will
pay \$100 cash for a verified pho-
tograph of either one.





Slide, Kelly, S-L-I-D-E!

There is only one baseball classic which ranks with "Casey at the Bat," and this is it. The two stories differ, however, in as much as this one is based in fact—whereas "Casey" is entirely fictional.

Mike (King) Kelly of Boston was the idol of all baseball fans in the Gay Nineties. Known as the "\$10,000 Beauty," because that was the sum the Boston club paid for him, he, in those days when the catcher stood at least 8 feet behind the batter (and the umpire 3 feet back and to the right of him), was a left-hand batter, wore a wheelbarrow moustache, pulled so many original tricks the rule books had to be rewritten, and drank more whisky than all the other Boston players put together.

One of his most famous tricks was the time when he won a tight game from Cleveland by persuading the Cleveland base runner, Jesse Burkett, into thinking the game was over when it wasn't.

King Kelly was catching, and his team was leading by one run in the first of the 9th inning. Two were out, and Burkett was hopping around on third base with the tying run.

The batter hit to short-stop Herman Long, and Jesse set sail for home. Long's throw, however, failed to nip the runner at first base, and Kelly, seeing in a flash that Burkett would be safe although two strides from the home plate, calmly dropped his mitt to the ground as though the game were over.

Burkett fell for the bluff and held up. Cleveland's players yelled for him to keep going, but it was too late. In that split second, Kelly caught a lightning throw from first in his bare hands, and tagged Burkett out.

It was not, however, so much for his tricks that baseball fans turned out by the thousands to see Kelly play. Today, it is the home-run hitter that packs them in. Then it was Kelly's perfection of the now out-moded stunt of sliding into a base head first. At this particular slide Mike was world champion, and folks used to go to the games just to see him perform. They'd sit on the edge of their seats waiting with baited breath for a chance to yell at the top of their lungs, "Slide . . . Kelly . . . Slide!"

It looked easy from the grandstand, but it took a lot of practice and courage to go hurtling through the air, land on your chest at just the right angle, and then plunge headlong through a cloud of dust into the bag. It was dangerous, too; but Kelly, the King of those rough and tumble days, did it hundreds of times by perfect coordination of brain and body.

Another innovation, popular with the fans, was Kelly's practice of autographing baseballs—the first player who was to do this on a large scale. Baseball folklore (just as fight lore with its tales of another great Bostonian, John L. Sullivan) is filled with stories about Mike Kelly. However—and strangely enough—the stunt for which he will always be best remembered took place, not on a baseball diamond, but from the deck of the old Savannah Liner *Nacoochie* on March 15, 1890.

On that Saturday, the New York and Boston teams were starting south for spring training. Down at the foot of Canal Street in New York, the old steamer, with a plume of smoke pouring from her funnels, was aive with stevedores bringing freight into her hold—porters with luggage—and impromptu farewell parties in the lounge and various storerooms. A short distance away, in Pete's Place, some of the players were enjoying short lunches of sandwiches and beer while they waited for the warning whistle.

Standing out front was a short, thick-set, pudgy man with a creamy-white vest and a worried look. Every so often he would fish out a big gold watch and then look anxiously up and down the street.

"Wonder where the King can be?" he kept saying to himself. "I hope he shows up . . ." and he patted his vest pocket to make sure that what he had to sell Mr. Kelly was still there.

This was "Silver" McLaren, a roly-poly character of the East Side, a friend of Kelly's, and a dealer in diamonds. At the moment

he was in bad need of cash and down to his last diamond, a magnificent jewel which he hoped Kelly would buy before he sailed for Savannah.

All of a sudden, a horse and cab came clomping down the street. It stopped in front of Pete's Place, the door flew open, and there was Kelly, tossing a bill to the driver with a careless, "Keep the change."

That was a good sign but, before McLaren could reach the King, an admiring throng had swept around him.

His brand-new, spotless derby was at just the proper angle and his new suit was pressed within an inch of its life. On his arm he carelessly carried a snappy new topcoat, in the pockets of which he had three or four baseballs that he had brought along to autograph for special friends.

There he stood, in a shaft of sunlight, surrounded by his admirers, and too busy to notice how fast the hands of the clock were turning. Poor, puffing Mr. McLaren pushed through the crowd and caught hold of Mike's arm.

"Hi yer, Silver!" Mike said, grabbing him around the shoulder. "Glad to see you. What's up?"

"Plenty, Mike. I want to talk to you." He fumbled at his vest pocket and brought forth a bit of chamols, from which he drew the big, beautifully-cut diamond that he wanted to sell.

"Look, Mike!" He said. "It's the best rock I've ever had, the very best. You ought to have this, Mike, to dazzle 'em in Savannah. Bring you luck, Mike! Here, hold it in the sun! It's worth more than a thousand, Mike! What do you say?"

Kelly squinted at the stone in mock seriousness, dropped it in his vest pocket, and with a sidelong wink at the crowd, he said, "Mighty nice of you, Silver, to make me such a fine parting good-luck gift, mighty nice of you. Some day, I'll do something for . . ."

The sentence was never finished!

Through the milling crowd came a couple of ballplayers all out of breath. "For Gawd's sake," they yelled, "Come on, Mike, they're taking up the gang plank. Didn't you hear the whistle? Come on, get going or we'll miss the boat."

Kelly, running behind the two players as his interference, just made the steamer. He ran up the gang plank to the cheers of "Slide, Kelly, slide," from players and passengers already on the deck. Shortly the steamer was out in the East River, turning around.

One of the players, leaning over the rail, noticed a commotion on the pier behind.

"Hey, Mike!" he said, "what's that white-haired feller trying to do? Jump overboard?"

Kelly looked, and there on the wharf was "Silver" McLaren, jumping straight up and down and waving his stubby arms. Then he caught "Silver's" voice, coming faintly across the water. "Mike, my diamond! My diamond, Mike!"

"Holy mackerel," Kelly groaned, fingering the hard, sharp lump in his pocket—and then, the lightning-like brain that had saved so many ball games snapped into action.

With the speed of a photo-flash, he caught sight of George Gore, handing a match to Roger Conner; Mike Slattery and Joe Quinn talking together; Kid Maddern doing a bit of manœuvre with his penknife; and Dan Brothers lapping a steamship label he was about to paste on his suitcase.

Kelly's right hand dived in his topcoat pocket for a baseball, the other snatched the penknife out of Maddern's hand.

Down went his topcoat, off came his derby, and before you could say "Jack Robinson," Kelly sliced the skin of the ball, shoved in the thousand dollar diamond, yanked the sticky label right off Dan Brothers' tongue and slapped it on the baseball, and then, waving to the crowd to give him room, Kelly jumped forward to the ship's railing and yelled as loud as he could:

"LOOK OUT, SILVER! HERE IT COMES!"

Straight across the intervening 400 feet of water, that diamond-studded baseball whizzed like a bullet. McLaren saw it coming and guessed what was in it, but the afternoon sun was shining right in his eyes, and, when the ball came within his reach, he was so dazzled and dazed it slipped through his outstretched hands and banged him in the belly so hard that he went down on the wharf with a thud.

Before he could grab it, the baseball bounced a couple of times, and then rolled toward the edge of the wharf, where it stopped, balanced on the very rim, some 15 feet above the water.

With trembling fingers, McLaren grabbed the ball, tore off the label, pried out the diamond, and thrust it safely in his vest pocket.

Courtesy
American Automobile
Association

Auto Laws

1965

State	Max. Speed Open Hwy. (R-Reasonable)	Date Regis. Expires (Incl. Grace)	Driving License Minimum Age	Gasoline Tax	Per Cent Sales Tax	Days of Stay ¹ (R-Reciprocal)	Min. Cost of Regis. (3M lbs.-100 HP)	Cost Term's Driver's License	Chem. Test Law
Ala....	60-50N	11/15	16h	\$.07	1½	30	\$ 3.75	\$4.25-2Y	B
Alaska.	50	5/31	16a	.08	—	90	30.00	5.00-3Y	B
Aris...	50-45N	12/31	18b	.06	3	4	6.25	2.50-3Y	A
Ark....	60	1/31	14ac	.065	3	90*	14.50	2.00	A
*Cal....	65	2/4	16d	.07	3†	2	8.00†	3.00-3Y	B
Colo....	60	2/28	17b	.06	2	30	7.10	2.25-3Y	A
*Conn...	60	2	16eft	.06	3½	60	10.00	6.00-2Y	C
Del....	50	2	16	.06	—	90	10.00	4.00-2Y	A
*D.C....	R	3/31	16a	.06	—	R1	22.00	3.00-3Y	A
Fla....	65-55N	3/20	16ag	.07	2	R	21.72	3.00-2Y	B
*Ga....	60-50N	4/1	16h	.065	3	30	5.00	2.50-2Y	A
Haw....	45	3/31	15i	.085-11	—	10 or ²	15.00	3.00	A
Ida....	60-55N	12/31	16g	.06	—	—	17.50	4.00-2Y	C
*Ill....	65	3/1	16a	.05	3½	R	22.00	3.00-3Y	A
*Ind....	65	2/28	16	.06	2	60	12.00	1.50-2Y	A
Iowa...	70-60N	1/31	16g	.06	2	R	12.00†	3.00-2Y	C
Kan....	70-60N	2/15	16g	.05	2½	R	10.00	2.00	C
Ky....	60-50N	3/1	16a	.07	3	R	5.00	2.00-2Y	A
La....	60	2	15	.07	2	R	6.00-2Y	2.50-2Y	B
Me....	45	2/28	17aj	.07	4	R	15.00	5.00-2Y	A
*Md....	55	3/31	16k	.07	3	30	15.00	7.00-2Y	A
Mass...	50-45N	12/31	16a	.065	—	R	6.00	5.00-2Y	A
*Mich...	65-55N	2/28	16ag	.06	4	90	10.50	4.00-3Y	A
*Minn...	65-55N	3/1	16e	.06	—	R	5.25†	3.00-4Y	C
*Miss...	65	10/31	15	.07	2	30	12.00	2.50	B
*Mo....	65-60N	2	16j	.05	3	—	37.50	1.00-3Y	B
Mont...	R-55N	2/15	15ae	.06	1½	60	10.00	4.00-2Y	A
*Nebr...	65-55N	2/28	16gm	.07	—	R	8.50	3.00-2Y	C
Nev....	R	12/31	16n	.06	2	2	5.50	3.00-5Y	A
N.H....	50	3/31	16jt	.07	—	R	12.00	5.00-2Y	A
N.J....	50	2	17o	.06	—	60	15.00	3.00	A
*N.M....	70-60N	3/2	18jq	.06	1½	—	32.00	3.25-2Y	B
*N.Y....	50	1/31	18bp	.06	—	R	15.00	5.00	C
*N.C....	65	2/15	16af	.07	1½	R	10.00	2.50-4Y	D
N.D....	60	12/31	16	.06	2½	R	32.00	3.00-2Y	C
Ohio...	60-50N	3/31	16e	.07	3	R	10.00	.75-3Y	B
Okla...	65-55N	3/2	16d	.065	—	60	19.50†	4.00-2Y	B
Ore....	55	2	16g	.06	—	2	10.00	2.75-2Y	A
Pa....	50	3/31	18b	.07	5	R	10.00	4.00-2	A
*R.I....	50-45N	3/31	16	.07	3½	R	11.00	8.00-2Y	A
S.C....	55	10/31	16g	.07	3	10	4.30	.50-4Y	A
S.D....	70-60N	3/31	16g	.06	—	60	22.00	3.00-4Y	C
*Tenn...	65-55N	3/31	16g	.07	3	30	11.50	4.00-1Y	A
Tex....	60-55N	4/1	16g	.05	2	R	11.88	3.00-2Y	B
Utah...	60-50N	2/28	16r	.06	3½	—	6.00	3.00-3Y	C
*Vt....	50	3/31	18b	.065	—	R	32.00	2.50	C
*Va....	55	4/15	18ahp	.07	—	60	15.00	6.00-3Y	C
*Wash...	60	1/31	16	.075	4	R	7.60†	4.00-2Y	A
W.V....	55	6/30	16s	.07	3	30	20.00	5.00-4Y	A
*Wis...	65-55N	2	16g	.06	3	R	16.00	2.50-2Y	A
Wyo....	65	3/1	15st	.05	2	120	7.50	2.00-3Y	A

¹Applies to non-residents. "Reciprocal" means same as home state. Those intending permanent residence must buy new plates and secure new driving license at once. Employment or placing children in public school is to reside permanently. ²Staggered. ³Until expiration of home registration. ⁴Visitor's permit req. after 10 days. ⁵Visitor's permit after 30 days.

(A). State has drunken driving test law. (B). State does not. (C). Law with imp. cons. prov. (D). Same but refusal doesn't auth. license susp.

(a) Under 18 must have consent of par or guard; (b) Jr. p'mt 16; (c) 14-16 need accompaniment by lic. op.; (d) Instruction p'mt 15½; (e) Provisional license to 21; (f) 16-18 app. must have completed driver course; (g) Jr. p'mt 14; (h) Learner's p'mt 15; (i) Under 20 need par./guard consent; (j) Jr. P'mt 15; (k) Under 21 need par./guard consent & proof of fin. responsibility; (l) Visitor's permit req. if stay exc. 14 days; (m) 14-16 accomp. by lic. driver over 21; (n) With consent of par./guard.; (o) 16 for agric. pursuits; (p) Exc. some cities; (q) Provisional lic. 16-18; (r) 15½ if drive course comp.; (s) Under 21 birth certif. or par. sig. req.; (t) Learner's permit not req.

†Plus various adj. *Seat belts req.

Not Guilty

by Israel Bloch

On September 12, 1964, a boy of 19, a school drop-out with a police record, was arrested and charged with breaking and entering a building (a tire company warehouse and retail appliance store) in the nighttime with intent to steal, and that he did steal property therein to the value of more than a hundred dollars—a felony. (Mass. General Laws, chapter 266, section 16.) The penalty: imprisonment in the State's prison for not more than 20 years or in a jail or house of correction for not more than 2½ years.

On October 8, 1964, the defendant was brought into the Lynn (Massachusetts) District Court for a hearing of "probable cause." He had been languishing in jail for the previous 26 days unable to raise \$1,500 bail, or to hire a lawyer.

The Court (Judge William J. Landergan), therefore, asked the writer to represent the defendant.

During the presentation of evidence against the boy by the police, it appeared to me that his constitutional rights had been infringed, *Escobedo v. State of Illinois*, 84 S.Ct. (1758). His fingerprint had been found inside the store near the broken showcase, from which 12 watches worth \$160 were missing. The police testified he had steadfastly denied any knowledge of the burglary or having even been inside the building. The boy was not put on the stand.

The Court denied motions to dismiss my complaint based on the ground that the defendant's constitutional rights had been violated, found probable cause, ordered the case to be presented to the grand jury, but did let the boy out of jail without bail.

The boy was indicted by the grand jury in January 1965 on the burglary charge.

The case was reached for trial January 12, 1965 before Judge Cornelius J. Moynihan (a former eminent professor of law at Boston College). I again argued for dismissal of the charges on constitutional grounds. The Court ruled that there was no infringement of the boy's constitutional rights.

On January 13, the boy's trial was held before a jury of 8 men and 4 women.

The burglary had been committed sometime between 6 P.M. on August 27 and 6 A.M. on August 28, 1964, between which hours the building had been closed. I purchased *The Old Farmer's Almanac* and examined the table of astronomical calculations for August. Massachusetts was under Daylight Saving Time in August. Thus there was a period of about 2½ hours of statutory daylight following the closing of the store and about one-half hour of statutory daylight before its reopening the following day.

Over the District Attorney's objections, the Court took judicial notice of the accuracy of the astronomical calculations in *The Old Farmer's Almanac*, and granted my motion for a directed verdict of not guilty on the charge of breaking and entering the building in the nighttime, but left it to the jury to decide whether the boy had stolen the watches.

This meant that, even if found guilty of the lesser crime of theft in a building, the boy was now facing a possible maximum penalty of 5 years in State's prison (as compared to 20 years) and a possible minimum sentence of a fine of not more than \$500 or jail of not more than 2 years (as compared to 2½ years in jail or house of correction). Mass. General Laws, chapter 266, section 20.

After 30 minutes' deliberation, the jury returned a verdict of not guilty on the larceny charge. The boy was free. He had not once taken the stand.

Thus an investment of 35 cents in *The Old Farmer's Almanac*, and its effective use in the trial, may be credited—in part, at least—for the boy's exoneration of the commission of a felony carrying with it a very severe penalty.



RECIPES FROM OUR MOTHER COUNTRIES

by Duncan MacDonald

Though the French cuisine is thought by many to be the greatest, Greek, Italian, German, Scandinavian, and many other food traditions have exerted their beneficent influences upon American cooking.

In addition, whether because of political strife or economic adversity, people from upwards of forty nations have emigrated to this country, each nationality with its own food preferences and food knowledge gained over centuries of trial and error and discovery.

In line with the original English impetus, the first President and his First Lady ("Your Majesty," they called her) preferred food in the mother country's tradition, and this influence on our food habits is still apparent, especially in the traditional plum pudding.

Martha Washington's Plum Pudding

2-1/2 lbs. prunes	2 lbs. beef suet
1-1/2 lbs. raisins	1/2 cup grated orange peel
3/4 cup brandy	1/4 cup grated lemon peel
2 tsp. cinnamon	1 lb. citron
1/2 tsp. cloves	1 cup flour
1 tsp. allspice	7 eggs, beaten
2 tsp. mace	2 cups sugar
1-1/2 tsp. nutmeg	

According to this time-honored recipe, you take three days to prepare the great concoction. First, prunes and raisins are cooked until soft. Leave the fruit in its cooking water and add brandy and spices. Let the mixture steep for two days, keeping in a cool place.

When the day comes for baking, drain the liquid. Add beef suet, grated orange and lemon peel, and citron, combining further with flour, eggs, and sugar. Press into a buttered bread-loaf pan, cover tightly, and steam for six hours. You will have the famous pudding.

Another English confection favored in that first presidential household was

Martha Washington's Holiday Fruitcake

1 lb. butter	3 lbs. currants
2-1/2 cups sugar	2 lbs. raisins
2 eggs	1-1/4 lbs. citron
4 cups flour	1 lb. hickory nuts
	1 cup water and 1/4 cup brandy

Spices: 1 tbs. cloves
 2 tbs. powdered cinnamon
 3 tsp. mace
 3 tsp. nutmeg

Blend butter and sugar. Add beaten eggs and flour. Set aside. Make another mixture of the fruits and nuts. Add water mixed with brandy. Sprinkle spices over the mixture, then combine thoroughly with the first mixture. Bake in well-greased loaf pans in a slow oven (325°) for two hours.

French influence on our cooking undoubtedly gained impetus when Thomas Jefferson became our third President. Earlier, he, Benjamin Franklin, and John Adams had lived in Paris while negotiating treaties with the French government. It is a matter of record that he insisted upon a French chef for his kitchen at the White House, and that his State Dinners brought enthusiastic comment, and inevitably imitations, on the part of his guests.

It is said that Jacques Coeur, Minister of Finance under Charles VII, came back from a visit to Turkey with—turkeys; bred them, and introduced them to French dinner tables. The French turkey recipes soon arrived in America and turkey became our national bird, second only to the eagle; in fact, has often been recommended for first place. Not that the French gave us the turkey, but their recipes no doubt contributed to its popularity.

As to a direct influence on everyday American cooking, probably the French *cassoulet* comes first. Its many *pot-au-feu* cousins, from beef stew to *bouillabaisse*, doubtless derive from this masterpiece. One of dozens of superb *cassoulets*:

Cassoulet De Castelnaudary

Soak a quart of white shell beans in water for three hours. Cook in a kettle with 2/3 pound of breast of pork, a cup of fresh bacon rind tied together, a carrot, an onion studded with cloves, a *bouquet garni*, and three cloves of garlic. Salt and cover with water. Keep in a mild boil until a weak broth has been produced.

Brown one pound pork fat (unless you have goose fat) about eight ounces pork chine, one pound of boned loin of mutton. Add salt and pepper. When the meats are browned, add a half-pound of chopped onions, a *bouquet garni*, and two cloves of garlic. Cover and cook, keeping moist with broth from time to time. Add several tablespoons of tomato puree.

When the beans are almost done, remove the vegetables and set aside. Also remove *bouquet garni*. Combine contents of both pots, adding a garlic sausage and a piece of homemade sausage. Let this mixture simmer gently for an hour. Take out the meats and slice them, removing skin from sausage. Put well-drained beans and meats into pot and cover with bread crumbs. Moisten with goose fat. Place in oven for an hour and a half. Serve with vegetables which were removed earlier.

The foregoing represents an uneasy attempt to clarify a translation of a recipe of Prosper Montagna, who is presumed to be an authority on this great recipe because he was born in Castelnaudary. While it is well established that stews are best when cooked slowly and long, Montagna's additional dictum is that as the pot (earthenware) is baking, a skin will form, and this skin must be mixed in, and as it forms continually, mixed in seven times to guarantee the success of the dish.

An Austrian and generally German dish that finds wide acceptance in America in terms of adaptation is *wiener schnitzel*. Veal is a very fine meat, and especially so when prepared in the special way that apparently originated in Vienna. To do it correctly, you should have a kind of butcher's block in your kitchen, because it should be pounded on a block with a mallet.

Wiener Schnitzel

4 veal cutlets	1/2 tsp. salt
4 tbs. flour	1/4 tsp. pepper
3 tbs. Parmesan cheese (grated)	1/4 tsp. grated nutmeg
1 egg, beaten	1/2 cup milk
1 tsp. parsley (minced)	6 tbs. butter
	Juice of one lemon

Parsley for garnish

Veal cutlets should be washed with damp cloth, then pounded thin and dipped lightly in flour. Prepare a mixture

of the remaining flour, cheese, egg, minced parsley, seasonings, and milk. Beat until smooth, then dip cutlets into the batter. Melt 4 tbs. butter in a heavy pan, add cutlets and fry until browned on both sides. Heat 2 tbs. butter, add lemon juice, and pour over cutlets just before serving. Garnish with parsley.

Most elegant parties in America get off to a flying start with bibulous inspiration accompanied by delicious trifles called appetizers, hors d'oeuvres, canapes, or names, that are personal or regional. Canape may be the best word to use since in French it means sofa. This negates any suggestion of sitting down to table, and that's the whole idea. The canape is a morsel of food that, standing or sitting, may be held between the finger-tips, employing only one hand, leaving the other free for other employment.

Among the best of the canapes are those tiny pies made with puff paste. They may enclose one or another of many kinds of morsels: beef, chicken liver, chopped beef, chicken, tuna fish, crab, lobster—the list is endless and of only secondary importance. What is of prime importance is the puff paste, often called French puff paste. Surely the French do it well, as they do most foods, and just as certainly it is a Mediterranean creation and a close relative of the paste that produces baklava. Greece, Turkey, Armenia, Bulgaria, Egypt—all the Mediterranean people make this paste, and you might be justified in saying that they "create" it, since it is such a special thing. Once there is the paste, each of us may fill the tiny pies as we choose, and it almost makes no difference because the paste is so good.

Puff Paste

3 cups finely sifted all-purpose flour
1 lb. butter
1 cup cold water
1 tsp. salt

Knead butter so that it can be blended evenly with flour and water. Place a little less than 3 cups flour in center of smooth counter top. Put salt and water in middle and knead until an even paste results. Let it rest for 20 or 25 minutes.

Lightly flour the counter surface, and with a rolling pin, roll the dough into a square. Place the kneaded butter on the dough so that it forms a smaller square. Lift the sides of the dough and pinch together so that butter is within the envelope of dough. Allow to rest in a cool place (not refrigerated) for 15 minutes.

This process is now repeated four more times in order to achieve a precise blending of dough and butter: The dough is re-rolled, folded again, the edges are pinched, and the mixture is allowed to rest.

Cut out circles of the paste, put anything you like within the circle, fold over, and bake—voilà! The suggestion here is that you make a large quantity of puff paste, for the better you get to know it, the more uses you will find for it. Circles dipped in sugar and baked on both sides in a 400-degree oven make marvelous cookies. Preserved fruits and vegetables, any and all left-overs will enjoy a marvelous reincarnation baked in a fold of puff paste.

The paste is the Fairy Godmother who can turn Cinderella dishes into royal creations—but only up to midnight!

TABLE OF MEASURES

Apothecaries

- 1 scruple=20 grains
1 dram=3 scruples
1 ounce=8 drams
1 pound=12 ounces

Avoirdupois

- 1 pound=16 ounces
1 hundredweight=100 pounds
1 ton=20 hundredweight=
2000 pounds
1 long ton=2240 pounds

Cubic Measure

- 1 cubic foot=1728 cubic inches
1 cubic yard=27 cu. feet
1 register ton (shipping measure)
=100 cubic feet
1 U. S. shipping ton=40 cu. ft.
1 cord=128 cubic feet
1 U. S. liquid gallon=4 quarts
=231 cubic inches
1 Imperial gal.=1.20 U. S. gals.
=0.16 cubic feet
1 board foot=144 cubic inches

Dry Measure

- 2 pints=1 quart (qt.)
4 quarts=1 gallon (gal.)
2 gallons or } =1 peck
8 quarts }
4 pecks=1 struck bushel

Linear Measure

- 1 foot=12 inches
1 yard=3 feet
1 rod=5½ yards=16½ feet
1 mile=320 rods=1760 yards=
5280 feet
1 U. S. nautical mile=6076.1033
feet
1 knot=1 nautical mile per hour
1 furlong=¼ mile=660 feet=
220 yards
1 league=3 miles=24 furlongs
1 fathom=2 yards=6 feet
1 chain=100 links=22 yards
1 link=7.92 inches
1 hand=4 inches
1 span=9 inches

Square Measure

- 1 square foot=144 square inches
1 sq. yard=9 sq. feet
1 sq. rod=30¼ sq. yards=
272¼ sq. feet
1 acre=160 sq. rods=43560 sq. ft.
1 sq. mile=640 acres=
102400 sq. rods
1 sq. rod=625 square links
1 sq. chain=16 square rods
1 acre=10 square chains

Troy

- (Used in weighing gold, silver,
jewels)
1 pennyweight=24 grains
1 ounce=20 pennyweight
1 pound=12 ounces



Household Measures

- 120 drops water=1 teaspoon
60 drops thick fluid=1 teaspoon
2 teaspoons=1 dessertspoon
3 teaspoons=1 tablespoon
16 tablespoons=1 cup
1 cup=½ pt.
1 cup water=½ lb.
3 tablespoons flour=1 oz.
2 tablespoons butter=1 oz.
3 teaspoons soda=½ oz.
4 teaspoons baking powder=
½ oz.
2 cups granulated sugar=1 lb.
¾ cups confectioners' sugar=
1 lb.
2½ cups wheat flour=1 lb.
3½ cups whole wheat flour=
1 lb.
2½ cups buckwheat flour=1 lb.
5½ cups coffee=1 lb.
6½ cups tea=1 lb.
2 cups lard=1 lb.
2 cups butter=1 lb.
2 cups corn meal=1 lb.
2 cups powdered sugar=1 lb.
2¾ cups brown sugar=1 lb.
2¾ cups raisins=1 lb.
2¾ cups currants=1 lb.
9 eggs=1 lb.

Liquid Measure

- 4 gills=1 pint (O.)
2 pints=1 quart (qt.)
4 quarts=1 gallon (gal.)
63 gallons=1 hogshead (hhd.)
2 hogsheads=1 pipe or butt
2 pipes=1 tun

Metric

- 1 inch=2.54 centimeters
1 meter=39.37 inches
1 yard=0.914 meters
1 mile=1609.344 meters=
1.61 kilometers
1 sq. inch=6.45 sq. cm.
1 sq. yard=0.84 sq. m.
1 sq. mile=2.59 sq. km.
1 acre=0.40 hektars
1 cu. yard=0.76 cubic meters
1 cu. meter=1.31 cubic yards
1 liter=1.06 U. S. liquid quarts
1 hektoliter=100 liters=
26.42 U. S. liquid gallons
1 U. S. liquid quart=0.94 liters
1 U. S. liquid gallon=3.76 liters
1 metric ton=1000 kilograms
1 kilogram=2.20 pounds
1 pound avoirdupois=
0.45 kilograms



THERE'S A FORTUNE IN YOUR MOLES

PRINTED FOR THE PURCHASER, BROOKFIELD, MASS. 1816

At the beginning of the 19th century there were six major factors in a method of fortune telling "never known to fail." The fortune teller, under this method, used astrology, physiognomy, palmistry, moles, dreams, and cards. Last year, palmistry was covered here. Astrology appears in this issue, pages 38-41. Dreams, physiognomy, and cards will be in future issues.

Though moles are in their substances nothing but excrescences or ebullitions which proceed from the state of the blood whilst the child lies in the mother's womb, yet they are not given in vain as they are generally characteristic of the disposition and temper of those that bear them, and it is proved by experience that from their shape, situation, and other circumstances, they bear a strong analogy to the events that are to happen to a person in future life; hence we shall give some few directions to those who are to form the prognostic, that from thence they may be enabled to pronounce an infallible judgment.

And first, it is essentially necessary to know the size of the mole, its color, whether it is perfectly round, oblong or angular, because each of those will add to, or diminish the force of the indication; the larger the mole, the greater will be the prosperity or adversity of the person; the smaller the mole, the less will be his good or bad fortune; if the mole is round it forebodes good; if oblong, a moderate share of fortunate events; if angular, it indicates a mixture of good and evil; the deeper its color, the more it announces favor or disgrace; the lighter, the less of either; if it is very hairy, much misfortune is to be expected; if but few long hairs grow upon it, it denotes that your undertakings will be prosperous.

We will further remark only, that moles of the middling and common size, and color, are those we speak of; the rest may be gathered from what we have said above; but as it may frequently happen that modesty will sometimes hinder persons from showing their moles, you must depend upon their own representation of them for your opinion.

A mole that stands on the right side of the forehead or right temple, signifies that the person will arrive to sudden wealth and honor.

A mole on the right eyebrow announces speedy marriage; and that the person to whom you will be married will possess many amiable qualities, and a good fortune.

A mole on the left of either of those three places, announces unexpected disappointment in your most sanguine wishes.

A mole on the outside corner of either eye, denotes the person to be of a steady, sober and sedate disposition; but will be liable to a violent death.

A mole on either cheek, signifies that the person never shall rise above mediocrity in point of fortune, though at the same time he never will sink to real poverty.

A mole on the nose, shows that the person will have good luck in most of his or her undertakings.

A mole on the lip, either upper or lower, proves the person to be fond of delicate things, and very much given to the pleasures of love, in which he or she will commonly be successful.

A mole on the chin, foreshows that the person will be attended with great prosperity and be highly esteemed.

A mole on the side of the neck, shows that the person will narrowly escape suffocation, but afterwards rise to great consideration by an unexpected legacy or inheritance.

A mole on the throat, denotes that the person shall become rich by marriage.

A mole on the right breast, signifies success in undertakings, an amorous disposition, that the children will be mostly boys.

A mole on the bosom, portends mediocrity of health and fortune.

A mole under the left breast over the heart, foreshows that a man will be of a warm disposition, unsettled in mind, fond of rambling, and light in his conduct; in a woman, it shows sincerity in love, quick conception and easy travail in childbirth.

A mole on the right side over any part of the ribs, denotes the person to be pusillanimous and slow in understanding any thing that may be attended with difficulty.

A mole on the belly, denotes the person to be addicted to sloth and gluttony; selfish in almost all articles, and seldom inclined to be nice or careful in point of dress.

A mole on either hip, shows that the person will have many children, and that such of them as survive will be healthful, lusty, and patient of hardships.

A mole on the right thigh, shows that the person will become rich, and have good luck in marriage.

A mole on the left thigh, denotes that the person suffers much by poverty and want of friends, as also by the enmity and injustice of others.

A mole on the right knee, signifies that the person will be fortunate in the choice of a partner for life, and meet with few disappointments in the world.

A mole on the left knee, portends that the person will be rash, inconsiderate and hasty, but modest in cool blood, honest, and inclined to good behavior in every sense of the word.

A mole on either leg, shows that the person is indolent, thoughtless and indifferent as to what happens.

A mole on either ankle, denotes a man to be inclined to effeminacy and elegance in dress; a woman to be courageous, active, and industrious with some spice of the termagant.

A mole on either foot, forebodes sudden illness or unexpected misfortune.

A mole on the right shoulder, signifies prudence, discretion, secrecy, and wisdom.

A mole on the left shoulder, declares a testy, contentious and ungovernable spirit.

A mole on the right arm, denotes vigor, and undaunted courage.

A mole on the left arm, declares resolution and victory in battle.

A mole near either elbow, denotes restlessness, a roving and unsteady temper; also a discontentedness with those the person is obliged to live constantly with.

A mole between the elbow and the wrist, promises the person prosperity, but not until he has undergone many hardships.

A mole on the wrist or between it and the ends of the fingers signifies industry, parsimony, fidelity, and conjugal affection.

A mole on any part of the shoulders to the loins, signifies imperceptible decline, and gradual decay, whether of health or wealth.

A mole on the loins, shows vigor, especially in the duties of love.

If any other moles should occur, which we have not here particularized, we flatter ourselves that our readers will attribute our not explaining them, not to any want of desire to gratify their utmost wishes, but rather to that deference which every writer justly owes to the sagacity and understanding of those who will honor him with their good opinion; we the easier flatter ourselves that this omission will be forgiven us, as we are confident that our readers will find in their own penetration an easy supplement to our forgetfulness; the more so, as the proximity of situation of any other mole that may occur to any of those here mentioned, will, from the explanation given in these sheets, find an interpretation from comparison with what we have said; the degree in any particular, being only a little more or less.

CHARADES, REBUSES, CONUNDRUMS, ENIGMAS, etc.

(For answers, see page 67)

I



II

I am composed of 23 letters.
My 2, 21, 4, 5, is part of a building.

My 6, 13, 8, 22, is an Ex Governor and Foreign Minister.

My 15, 16, 23, 13, is what all ought to be at a certain time.

My 13, 4, 5, 3, is a girl's name.

My 19, 22, 7, 20, 18, is what we live in.

My 12, 23, 17, 1, are industrious.

My 6, 21, 8, 1, 14, 9, is a territory.

My 23, 3, 20, is what most people do daily.

My 12, 23, 17, 22, is a vegetable.

My 4, 10, 6, 17, is a body of water.

My 11, 3, 12, 12, 7, 20, 2 should be regarded.

My whole is a very important question.

III

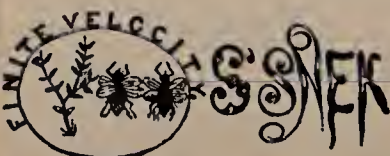
What word may be pronounced quicker by having another syllable added to it?

IV

My first is often given, and with rapture oft received;
The torture of my second can scarcely be conceived;

My whole, upon the breakfast table, mostly is perceived,
Waiting, very quietly, of my first to be relieved.

V



VI

Why is the letter "N" the most sorrowful of letters?

VII

It was said when I was a boy (and so it might have been) that once on a certain year a man had an apple tree that bore apples, and he saw them with his eyes. The following year, it bore the same kind of fruit, but it did not bear apples. He saw the fruit, but did not see them with his eyes. How was this?

VIII

First

See the poor little animal homeless and lone,

How glad he would be if you gave him a bone.

Second

You won't? Then my second, I freely confess

Serves you right, if he did tear a hole in your dress.

Whole

Come in with your boat, for the rapids are near,

My whole is so strong, you have reason to fear.

IX



X

Why is influenza like the House of Commons?

XI

My first is my second, and my second is indispensable.

My 3, 2, 5 is a verb.

My 4, 1, 3 is for propelling.

My while is a name of five letters.

XII

A part of today, or some of tomorrow,

What freely used might give you sorrow,

These two combined though some out of date,

Will give you a clue if you only wait.



OLD-FASHIONED PUZZLES

(For answers, see page 67)

I

When Billy took the marbles out of his bag two at a time, there was one left over. When he took them out three, four, five or six at a time, the same thing happened; there was one left over. But when he took them out seven at a time, they came out even. What was the smallest number of marbles that Billy could have had?

II

A man calculated the square root of two (actually 1.4142 . . .) with an error of less than one percent by simply dividing two small numbers in his head. How did he do it?

III

A man has a 12-inch by 12-inch square of sheetmetal. He wants to bend up the edges to form a tray, and he wants that tray to hold the most water possible. How high should he make the sides?

IV

A man has bought a 24-ounce jar of liniment. He wants to separate it into 3 equal parts. He has only three empty jars: one holds 13 ounces, one holds 11 ounces, one holds 5 ounces. How can he do it?

V

A farmer had a square field of grass. He employed ten men to mow it. After mowing around the field 3 times each, they found they had mown just $\frac{3}{4}$ of it. Each man cut a swath $5\frac{1}{2}$ feet wide. How many acres in the field?

VI

I have a board 20 feet long and 36 inches wide at the hutt end, and 4 inches wide at the other, which I cut in two lengths crosswise, so that each length shall contain just $\frac{1}{2}$ of the board, viz: $16\frac{2}{3}$ square feet in each length = $33\frac{1}{2}$. How must the dividing line be applied and what is the length of each half of the contents?

VII

Place 30 kernels of corn—15 white and 15 yellow—in a row before you, so arranged that in counting from the left hand, and removing every tenth kernel as you count, all of one color will first be removed.

VIII

How large a tract of land would it take, in a square form, fenced with a brick wall, 1,000 bricks to a rod so that there shall be as many acres in the field as bricks in the wall?

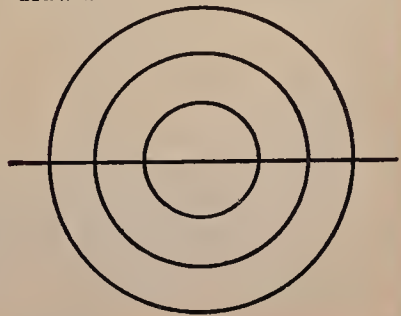
IX

Draw the following figure without removing your pencil from the paper and without going twice over the same line.



X

Now draw this figure as you did No. IX—but with this additional condition: you must not cross over any line already drawn.



FISH AND GAME SUMMARY

(Format copyrighted — must not be copied.)

Based on latest (mostly 1964-65) available laws courtesy of State Fish & Game Commissioners. For the most part 1966 laws not released until after press date (June, 1965) and so no attempt is made here at accuracy; in fact, only approximations of the months which may include seasons are given. This table useful only for vacation planning considerations and to satisfy curiosity as to what the various states offer in the way of hunting and fishing. Migratory Bird Regulations are available at any post office.

EXACT DATES, LIMITS, ETC. MUST BE VERIFIED LOCALLY.

STATE	SPECIES	ANTELOPE	BEAR	DEER	MT. GOAT SHEEP	ELK	MINK	MUSKRAT	OPOSSUM	RABBIT	RACCOON	SQUIRREL
Alabama			C	11-12			11-2	11-2	11-2	10-2	10-2	10-1
Alaska			9-6	8-12	8-12	8-12	11-1	11-6		9-4	O	O
Arizona	9		9-2	9-11	12	9-11				O	O	9-11
Arkansas				11-1			11-1	11-3	11-1	11-1	11-1	10
California	C		9-12	8-10	C	C	11-2	11-3	O	10-1	O	11-12
Colorado	P9		4-10	9-12	P8, 11	10-11	11-1	11-4	O	9-2	O	
Connecticut			O	11-12			C	C	O	10-1	9-1	10-1
Delaware (1962)				11			12-3	12-3	11-1	11-12	11-1	9-10
Florida			11-12	11-12							O	11-2
Georgia			11-1	10-1			11-2	11-2	10-2	11-2	10-1	10-2
Hawaii Isl.	C			S	O							
Idaho	S		O	9-12	9	9-12	11-12	11-12		9-2	O	C
Illinois				11-12			11-1	11-1	11-1	11-1	11-1	8-10
Indiana				11-12			11-1	11-1	11-1	11-1	11-1	8-10
Iowa				S			11	11-1	11-2	9-2	10-2	9-12
Kansas	C			P12			12-1	12-1	12-1	12-10		X
Kentucky				11			11-1	11-1	11-1	11-1	10	11-12
Louisiana (1964)			12	11						10-2		10-1
Maine			O	10-12						10-3	8-12	10-11
Maryland	C		C	11-12			11	11		10-3	8-12	10-11
Mass. (1964)			10-12	12			1-3	1-3	9-3	11-1	9-3	10
Michigan			9-11	9-11		S	11-1	11-12	9-12	10-2	9-12	10-11
Minnesota			O, S	11			11	11	O	10-2	10-12	10-11
Mississippi			C	11-1			12-1	12-2	11-1	10-2	11-1	10-1
Missouri				11			12-1	12-3	11-1	5-2	11-1	5-12
Montana	10-11		3-11	10-11	9-11	10-11	X	X	X	O	O	O
Nebraska	9			11			11-3	11-3	O	O	O	8-2
Nevada (1963)	8-9			10	12	11	11-3	11-3		10		
New Hampshire			9-12	11-12			11-2	11-2		10-3	9-12	10
New Jersey			C	12			11-12	11-12		11-12	11-12	11-12
New Mexico	9-10		9-11	12	X	9-12	12	11-4		O	O	9
New York			10-12	10-12			10-3	10-4	O	10-2	10-3	10-12
Long Island			C	C			1-3	1-3	O	11-1	11-2	11-12
North Carolina			10-12	10-12			11-2	11-2	10-2	11-2	10-2	10-12
N. Dakota	9			9-11	C	C	11-12	C	X	O	O	9-12
Ohio				11S			11-2	11-2	11-2	11-1	11-2	9-11
Oklahoma (1962)				S			12-1	12-1	12-1	O	12-1	5-12
Oregon	P8		O	10	C	10-11	11-1	11-2	O	O	O	O
Pennsylvania			11	11		C	11-1	11-3	O	10-1	O	10-1
Rhode Island				10, 1						11-12	10-1	11-12
South Carolina			C	9-12			S	S	S	S	S	S
South Dakota	9		X	11	C	C	11-12	11-12	11-4	S	O	O
Tennessee			10-11	11-12			10-2	12-2	10-2	11-2	10-2	9-12
Texas	9-10		11-12	11-12	C	12	11-1	11-3	O	O	O	S
Utah	P			10-11		P	10-5	O	X	O	X	O
Vermont			9-11	11		C	10-2	10-4	O	10-2	8-12	10
Virginia			11-1	11		C	12-1	12-3	10-1	11-1	10-1	S
Washington	C		O	10-11	9	11	11-1	11-3	O	10-2	O	C
West Virginia			11, 12	11-12			11-2	11-2	O	11-1	10-1	10-1
Wisconsin			10-11	10-11			10-1	11-12	11-12	10-1	S	10-1
Wyoming (1962)	9-11		4-6	9-11	9-11	9-11						

SPECIALS IN CERTAIN STATES:

ALLIGATOR: Ala. (C), Ga. (6-1); Fla. (6-1); Miss. (C).
 WILD BOAR: Cal. (10-3), Fla. (S), N. C. (10-12),
 Haw. (O), Tenn. (10, 2), Tex. (10)
 BUFFALO: Alas. (C), Ariz. (10), Utah (P), Tex. (C)
 CARIBOU: Alas. (S)

CHACHALACA: Tex. (12-1)
 JAVELINA: Ariz. (2), N. Mex. (2),
 Tex. (11-12)
 MOOSE: Alas. (8-11), Idaho (P),
 Mont. (9-11), Utah (P),
 Wyo. (9-10)

SYMBOLS USED PAGES 62 AND 63

Months: January is represented by the numeral "1" — February by the numeral "2", etc.
 Seasons: In the columns under the various animals, birds, and fishes you will note numerals. Thus "12-3" means the season opens in December and closes in March. A number alone means the season opens and closes within that month. Thus "12" alone means the season is December. A number followed by a comma denotes two seasons: thus "9, 12" would mean one September and another in December. "O" means no closed season; "X" not available; "S" special seasons; "C" closed; "P" permit only.

VERIFY EXACT OPENING & CLOSING DATES IN EVERY CASE.

PARTRIDGE GROUSE	PHEASANT	QUAIL	TURKEY	STATE	SPECIES	BASS	CATFISH PERCH SUNFISH CRAPPIE	PIKE PICKEREL	SALMON	BROOK TROUT	LAKE TROUT	WHITEFISH
8-5		11-2	11,12,4	Alabama.....	O	O	O	O	O	O	O	O
				Alaska.....	O	O	O	O	O	O	O	O
	C	10-1	10	Arizona.....	O	O	O	O	O	O	O	O
	C	12	4	Arkansas.....	O	O	O	O	O	O	O	O
	O	11	11-12	California.....	O	O	O	O	5-10	5-10	5-10	5-10
	9	11-12	11-12	Colorado.....	O	O	O	O	O	O	O	O
	10-12	10-12	10	C	Connecticut....	4-10	4-10	4-10	4-10	4-10	4-10	O
	10-12	11-12	11-12		Delaware (1962)	O	O	O	O	4-11	O	O
		11-2	11-1		Florida.....	O	O	O	O	O	O	O
	10-2	11-2	11-2		Georgia.....	O	O	O	C	4-9	O	O
	11-1	11	C		Hawaii Isl.....	O	O-X-O-X	X	X	X	X	X
	9-12	10-12	9-12		Idaho.....	O	O	O	S	6-10	4-11	O
	11-12C	11-12	11-12	C	Illinois.....	O	O	5-11	O	O	O	O
	11-12	11-12	11-12	C	Indiana.....	O	O	O	O	5-8	O	O
	11-12	11-12	11-12		Iowa.....	5-2	O	5-2	O	O	O	O
	11	11-12	11-12	C	Kansas.....	O	O	O	O	O	O	O
	12-1	11-1	11-1		Kentucky.....	O	O	O	O	O	O	O
		11-2	4		Louisiana (1964)	O	O	O	O	O	O	O
	10-11	10-11	10-11		Maine.....	6-9	4-9	4-9	4-9	4-9	4-9	4-9
	11-1	11-1	11-1	10	Maryland.....	O	O	4-11	O	4-3	O	O
	10-11	10-11	10-11	C	Massachusetts..	4-2	4-2	4-2	4-10	4-10	10-2	X
	10-12	10-11	C	C	Michigan.....	6-12	O	5-3	4-9	4-9	O	4-9
	10-11	10-11	C	C	Minnesota.....	X	O	5-2	X	4-9	1-9	O
		12-2	4		Mississippi.....	O	O	O	O	O	O	O
		11-1	4		Missouri.....	5-2	O	O	O	O	O	O
	9-10	10-11	X	9, 10, 4, 5	Montana.....	O	O	O	5-11	5-11	5-11	S
	10	10-1	10-12	10, 11	Nebraska.....	O	O	O	O	O	O	O
	10	11	11		Nevada (1963)..	O	O	O	S	O	O	O
	10-12	10	C		New Hampshire	4-10	4-10	4-3	4-9	4-9	1-9	1-9
	11-1	11-12	11-2	C	New Jersey....	O	O	O	C3-4	C3-4	C3-4	O
	9	11	11-12	9-11	New Mexico.....	O	O	O-X	X	5-11	O	X
	10-12	10-11	10-11	10	New York.....	7-11	O	5-2	4-9	4-9	4-9	4-9
	11	11-12	11-12	C	L. Island.....	7-11	O	5-2	4-9	4-9	O	O
	10-2	11-2	11-2	11-2	N. Carolina.....	O	O	O	4-9	4-9	O	O
	9-12	10-12	X	11	N. Dakota.....	5-12	O	5-2	X	5-2	O	X
	10-2	11-12	11-12	5S	Ohio.....	O	O	O	O	O	O	O
	5	11-12			Okl. (1962)....	O	O	O	O	O	O	O
	10-11	10-11	10-11	X	Oregon.....	O	O	O	4-10	4-10	4-10	O
	10-1	10	10	10	Pennsylvania...	6-3	5-3	5-3	O	4-9	4-10	O
	11-12	11-12	11-12		Rhode Island...	4-2	O	4-2	O	4-2	O	O
	S	S	S	S	So. Carolina....	O	O	O	O	3-9	O	O
	9	10	11	10	So. Dakota.....	O-S	O-S	O-S	X	O	O	X
	11-2	11-2	4-5		Tennessee.....	O	O	O	O	O	X	O
	C	S	11-1	11-12	Texas.....	O	O	O	O	O	O	O
	9-12	11	11	P	Utah.....	O	O	O	6-11	6-11	6-11	6-2
	10	10	10	10	Vermont.....	6-11	O	5-3	4-9	4-9	4-9	O
	11-1	P	S	S	Virginia.....	O	O	O	O	4-12	4-12	O
	9-12	10-12	10-12	C	Wash.....	4-10	4-10	O	O	4-10	4-10	S
	10-1	11-1	11-1	10-S	W. Virginia....	O	O	O	O	4-0	4-0	O
	10-11	10-11	S	C	Wisconsin.....	5-2	O	5-2	X	5-9	1-9	O
					Wyoming (1962)	5-10	5-10	5-10	5-10	5-10	5-10	5-10

BLUEGILL: Ind. (O), Mich., Iowa (O), N. M. (O), S. D. (O), Tenn. (O)
 BUFFALO: Minn. (O), S. Dak. (O), Tex. (O)
 BULL FROGS: Ariz. (6-11), Ark. (4-12), Del. (5-12), Haw. (O), Ida. (6-10), Ill. (6-8), Ia. (O), Ind. (4, 6-10), Kans. (7-9), Mo. (7-11), Neb. (7-10), Nev. (O), N. Mex. (8), Ore. (O), Pa. (7-10), Tenn. (O), Ohio (7-4),

W. Va. (6-7), Wis. (5-12)
 RAINBOW: Haw. (8-9), N. Mex. (O), Ark. (O)
 SHAD: Calif. (O), Conn. (4-6), Del. (3-6), Fla. (1-4), Ga. (1-4), Md. (3-9), N. H. (1-8), Ore. (O)
 STURGEON: Ida. (O), Mich. (O), S. Dak. (O), Wis. (S)
 TERRAPIN: Fla. (X), Pa. (11-3)



DAVY CROCKETT AND HIS TALL TALES

David Crockett, 1786-1836, was born in Limestone, Tennessee. He served under Andrew Jackson against the Creek Indians in 1812, and subsequently in the Tennessee State Legislature. He served three terms in the U.S. House of Representatives (1827-1835). Defeated as a Conservative (opposed to Jackson) in 1835, he joined the U.S. forces and lost his life in the defense of the Alamo. His dress, language, and racy backwoods humor have won him a place in American folklore beside Wild Bill Hickok, Paul Bunyan, and others about whom it is now difficult to determine what is truth and what is fiction. These stories, presumably his, which follow are taken from the rare Nashville edition (1839) of THE CROCKETT ALMANAC, the first two numbers of which Crockett is said to have had a hand in making.

ADVENTURE WITH A GRIZZLY BEAR

It was when I was young I went to massacre the buffaloes near the Little Great Small Shallow Big Muddy River with my servant boy. I'd been all day vagabonding about the prairie when I saw one grazing in the rushes on the edge of a pond. He was a thousand years old at least for his hide was all covered with scars. His eyes looked like two holes burnt in a blanket. I crept toward him like a garter snake through the grass. I was just about to tackle him when out jumps a great bear as big as the Hall of Congress. The bear only hit him one blow and that was a side-winder. I wish to be kicked to death by grasshoppers if it didn't tear out five of old buffalo's ribs and lay his heart and liver bare.

So I said to that bear "Let every man skin his own skunks" and with that I insinuated a ball from my musket slap through his heart. By the ghost of the great mammoth of Big Bone Licks, you'd have thought I had spoken something unpleasant. His grinders made a noise as if an army of devils was sharpening cross-cut saws and he came at me like the whole Missouri River does on a sandbar.

There is no more back-out in Davy Crockett than there is go-ahead in the Bunker Hill Monument. So I gave him a sogdologer over his coconut. So he thought better of me and went after my servant. I hadn't time to load my musket before the bear had gathered upon him like a Virginia blood smear. The boy just figured he was a goner and fainted away.

By this time I felt most enticingly wolfy and savagerous and I gave this bear the hint he'd better leave the boy alone. He came after me then and pitched into me like the piston of a steam engine. Together we rolled into the Little Great Small Deep Shallow Muddy. When the bear raised his head I clapped my musket barrel across his neck and shoved him under water. I'll be shot with a packsaddle if the fool didn't clap both front paws over that barrel and kept himself down. From there on out I had nothing to do but float alongside until he drowned.

Don't anyone say now I am telling a lie for everyone knows a grizzly bear will live an hour with a ball through his heart—if so be he is only mad enough.

DAVY CROCKETT HAS A DREAM

One day when it was so cold I was afraid to open my mouth I took

my little dog Grizzle and cut out for Salt River Bay to kill something for dinner. Game was so scarce I couldn't find any. When I came to an old abandoned log hut, I was near frozen stiff so I went in and kindled a little fire. Taking a nap, I laid down with my head against the hearth with my eyes looking up the chimney. In that way I could see when it was noon by the sun and wouldn't be too late getting home.

After I was asleep I dreamt I was floating down the Mississippi in a hollow log. A friend called Oak Wing came to help me out of it. I asked him to tie a rope to my legs and pull me out but he said he wouldn't do it that way. He wanted to ram me out with a pole.

So he took a long pole and rammed it down against my head. This didn't make me budge but pounded my head down between my shoulders until I looked like a turtle with his head drawn in. This started my temper, but just then I woke up and was surprised to see my wife pulling my leg. It was almost sundown and she had come after me. I told her my dream and said I was going after Oak Wing for pounding my head. She said he was not to blame but I had a different idea. So I went and talked to him, and we agreed that in his next dream he would make me an apology, and that would make us square. After all I don't like to be run upon when I am asleep any more than I do when I'm awake.

BUYING A HORSE

A fellow from Down East, from Vermont, came to our parts to sell horses. He squinted with one eye and was always looking for rain with the other. This made my wife care for him and she got into a great flustication to go where he was and buy a saddle horse. She agreed to pay forty dollars for it and brought it home. Now she wasn't a good judge of horses despite the fact that in the dark she could tell a bear from a panther by the feel of its bite. That horse was lame in all four legs and had a crook in its tail. It was blind in one eye and deaf in both ears. He couldn't stand up for long nor lie down (for his bowels were out of order) either. The man from Down East was coming around next morning for his money.

So I stitched a saddle so that any strain would break it to pieces and put it on the creature's back. Then I fixed the bridle so that would break, too. Then I got a hornets' nest and stopped it up so the hornets couldn't get out. When the fellow came for his pay, I praised the horse but told him it was too sprited for my wife to ride. I asked him to get on and show us how to ride it. As soon as he was on the horse, I beat in the hornets' nest and flung it into the animal's hindquarters. The last I heard of him he was seen up by the fork of Duck River, going through the country like a runaway steamboat. He never did come back after his money.

DAVY AND THE SNAPPING DOG

I was coming down the Narrow Broadhorn in a canoe with a load of deer and bear in the Fall of 1826 when all of a sudden I heard such a screeching I thought heaven and earth were coming together. Suspecting there was something worse than gals in the bushes I put ashore to see what was going on. It was only a dozen loping Shawnees dancing about a nest of snapping turtles. While I was looking at them, one of their dogs come up behind me and bit my leg. And, after calling the dog what he was, I told him,

"If you don't find out my teeth are stronger than yours, you thn-gutted egg sucker, there are no snakes in Virginia and my name is not Davy Crockett."

Presently the Shawnees cut off the turtles' heads and these kept snapping away, as turtles will live several days after they've been cut apart. So I plucked up one of the snapping heads and came up behind that dog and put it to his tail. It caught hold and hung on like grim death. Isn't turnabout fair play? Didn't he come behind and bite me? Howsomever, that dog cleared out over the prairie faster than wrath itself and it is my considered opinion he's running yet.

The Shawnee that owned the dog gave me a tanyard grin but thought it best not to aggravate the matter. He was cutting up the turtles and putting their hearts in a wooden bowl where they were jumping around still like live cricket rubber balls. He took one up and swallowed it.

Looking at me he said, "No Big Knife do that. Big Knife too soft heart!" So I swallowed three of those turtle hearts right off and ever since then the sight of a turtle makes me feel as if all the Irishmen in Ireland are dancing an Irish jig down in my belly.

STATE EXTENSION DIRECTORS

Consult these men about your garden and farm problems. They know the answers. *Courtesy Ralph M. Fulghum, Assistant Director, Division of Information, U.S. Dept. of Agriculture, Washington 25, D.C.* *All general correspondence is conducted by the A.D. (Associate Director).

- Alabama: F. R. Robertson, Auburn Univ., Auburn 36830.
 Alaska: A. S. Buswell, Univ of Alaska, College, 99735.
 Arizona: G. E. Hull, Univ. of Arizona, Tucson 85721.
 Arkansas: C. A. Vines, Box 391, Little Rock 72203.
 California: G. B. Alcorn, Univ. of Cal., 2200 Univ. Ave., Berkeley 94720.
 Colorado: L. H. Watts, Colorado State U., Fort Collins 80521.
 *S. A. Bice (A.D.)—Same address.
 Connecticut: W. B. Young, Univ. of Connecticut, Storrs 06268.
 *H. M. Hansen (A.D.)—Same address.
 Delaware: S. M. Gwinn, Univ. of Delaware, Newark 19711.
 Florida: M. O. Watkins, Univ. of Florida, Gainesville 32603.
 Georgia: L. W. Eberhardt, Jr., U. of Ga., Athens 30601.
 Hawaii: M. M. Rosenberg, Univ. of Hawaii, Honolulu 96822.
 *D. N. Goodell (A.D.)—Same address.
 Idaho: J. E. Kraus, Univ. of Idaho, Moscow 83843.
 *C. O. Youngstrom (A.D.), 317½ N. 8th St., Boise 83701.
 Illinois: J. B. Claar, Univ. of Illinois, Urbana 61803.
 Indiana: H. G. Diesslin, Purdue University, Lafayette 47907.
 Iowa: F. Andre, Iowa State University, Ames 50010.
 *M. A. Anderson (A.D.)—Same address.
 Kansas: H. E. Jones, Kansas State Univ., Manhattan 66504.
 Kentucky: W. A. Seay, Univ. of Kentucky, Lexington 40506.
 G. W. Schneider (A.D.)—Same address.
 Louisiana: J. A. Cox, La. State U., Baton Rouge 70803.
 Maine: W. C. Libby, Univ. of Maine, Orono 04473.
 *E. H. Bates (A.D.)—Same address.
 Maryland: E. W. Aiton, Univ. of Maryland, College Park 20742.
 Massachusetts: A. A. Spielman, Univ. of Mass., Amherst 01003.
 *J. R. Beattie (A.D.)—Same address.
 Michigan: N. P. Ralston, Mich. State Univ., E. Lansing 48823.
 Minnesota: L. J. Pickrel, U. of Minn., St. Paul 55101.
 Mississippi: W. M. Bost, Miss. State Univ., State College 39762.
 Missouri: C. B. Ratchford, Univ. of Missouri, Columbia 65202.
 Montana: T. S. Aasheim, Mont. State College, Bozeman 59715.
 Nebraska: E. W. Janike, Univ. of Nebraska, Lincoln 68503.
 *J. L. Adams (A.D.)—Same address.
 Nevada: D. W. Bohmont, Univ. of Nevada, Reno 89507.
 *J. F. Stein (A.D.)—Same address.
 New Hampshire: S. W. Hoitt, Univ. of N. H., Durham 03824.
 New Jersey: J. L. Gerwig, Rutgers Univ., New Brunswick 08903.
 New Mexico: P. J. Leyendecker, N. M. State U., Univ. Park 88070.
 *A. E. Triviz (A.D.)—Same address.
 New York: A. A. Johnson, N.Y. St. Col. of Agr., Ithaca 14850.
 North Carolina: G. Hyatt, Jr., N.C. St. of U. of N.C., Raleigh 27607.
 North Dakota: A. H. Schulz, N. D. State Univ., Fargo 58103.
 Ohio: R. M. Kottman, Ohio St. Univ., 2120 Fyffe Rd., Columbus 43210.
 Oklahoma: J. C. Evans, Okla. State Univ., Stillwater 74075.
 Oregon: F. E. Price, Oregon State Univ., Corvallis 97331.
 *G. M. Lear (A.D.)—Same address.
 Pennsylvania: T. H. Patton, Penn. State U., University Park 16802.
 Rhode Island: J. W. Cobble, Univ. of R. I., Kingston 02881.
 *J. L. Rego (A.D.)—Same address.
 South Carolina: G. B. Nutt, Clemson Univ., Clemson 29631.
 South Dakota: J. T. Stone, S. D. State Univ., Brookings 57007.
 Tennessee: V. W. Darter, U. of Tenn., Box 1071, Knoxville 37901.
 Texas: J. E. Hutchison, Tex. A&M U., College Sta. 77841.
 Utah: W. H. Bennett, Utah State Univ., Logan 84321.
 Vermont: R. P. Davison, Univ. of Vermont, Burlington 05401.
 Virginia: W. H. Daughtrey, Va. Poly. Inst., Blacksburg 24061.
 Washington: C. A. Svinth, Wash. State Univ., Pullman 99163.
 West Virginia: E. J. Nesius, W. Va. Univ., Morgantown 26506.
 R. J. Verhaalen (A.D.)—Same address.
 Wisconsin: H. L. Ahlgren (A.D.), Univ. of Wis., Madison 53706.
 Wyoming: N. W. Hilston, Univ. of Wyo., Box 3354, Univ. Sta., Laramie 82071.
 L. Schilt (A.D.)—Same address.

Continued from Page 77

The post-oestrous period was characterized by a marked change in the reactions of both the female and the male. The female assumed an increasingly antagonistic attitude toward the male, who became increasingly cautious.

The female became decisively the aggressor. With growls, snarls, and threatening pattings of the floor with her front feet she drove her mate into a far corner.

When visited again at midnight, it was found that they had separated. One of the two pieces of woolen cloth which up to this time had been their common bed had been removed by the female to the opposite corner of the box and she was curled up asleep.

The female started to carry nesting material on April 15. On the afternoon of May 2 she gave birth to a litter of seven. Dating conception from the first successful mating, the gestation was not more than 62 days.

Condensed from an article by

H. M. Wight, *Journal of Mammalogy*, February, 1931

**ANSWERS TO
OLD-FASHIONED
PUZZLES ON PAGE 61**

(1) 301. (2) "Two," the man reasoned, "is the same as 50 divided by 25. And this is close to being 49 divided by 25. The square root of this is 7 divided by 5, or 1.4000." (3) Call the height x inches. Then the volume is $x(12-2x)(12-2x)$ or $144x^3 - 48x^2 + 4x^3$ cubic inches. This volume will be greatest for $x = 2$ inches. (4) Fill the 11 and 5-ounce jars, leaving 8 ounces in the original jar. Complete the filling of the 13-ounce jar from the 11-ounce jar, leaving 3 ounces in the 11-ounce jar. Finally, fill the 5-ounce jar from the 13-ounce jar. (The above 4 puzzles and answers courtesy of C. C. Cawley).

(5) Ten. (6) The butt end of the board is 7 feet long, and the narrow end 41 feet long. (7) 2 white corns, 1 yellow, 3 w, 5 y, 2 w, 2 y, 4 w, 1 y, 1 w, 3 y, 1 w, 2 y, 2 w, 1 y. (8) 4,000,000 square miles or 2,000 miles on a side. (9) No fair looking for the answer! (10) If you did #9, then #10 is easy!

**ANSWERS TO
CHARADES, etc.
ON PAGE 60**

(1) Beware of pick-pockets, and see to your money. (2) Shall Kansas be a Free State? (3) Quick. (4) Toast Rack. (5) Time flies with infinite velocity, says Seneca. (6) Because it is always inconsolable. (7) The tree bore apples the first year, and an apple the second year. (8) Current. (9) Grate cur age can over comb—(great courage can overcome). (10) Because sometimes the ayes have it and sometimes the noes. (11) Aaron. (12) Hourglass.

FUN ON THE FARM

The 1965 Essay Contest Winner.

Our farm has been forty years of fun and high adventure. The experience of the changes in farm living has been as breathtaking as a roller coaster ride. The crash, depression, wars, and mechanical revolution were challenges met and overcome. Children, now grown, recall the fun; hot nights sleeping under the stars; sledding on snowy hills; the brook; ice cream freezes and chicken after church; a litter of cocker puppies; made-over garments; croquet; the riding horse; and library books galore. Challenging? Yes! Fun spelled F for faith—U for understanding—and N for Nature's bounty — true Farm Fun.

Mrs. Orin S. Lanphere

1966 ESSAY CONTEST

Winners of the Contest (See Pg. 67, 1965 OFA) are: 1st Prize (\$25.00) to Mrs. Orin S. Lanphere, Monmouth, Ill.; 2nd (\$15.00) to Margaret Church, Lafayette, Ind.; 3rd (\$5.00) to Mrs. Beryl Cunigan, Moores Creek, Ky. For 1966, the money will go (1st, \$25.00—2nd, \$15.00—3rd, \$5.00) for the best 100-word essay on "My Most Unusual Farm Experience."

Contest closes May 1, 1966.

No entries returned; all become property of Yankee, Inc., which reserves all rights in the material submitted. Case of tie, place money lumped and divided. Staff of YANKEE, final judge. Winners announced 1967 OFA.

Address: Essay Contest, Yankee, Inc., Dublin, N. H. 03444.

NEW HAMPSHIRE'S FIRST LOTTERY YEAR

by Lawrence Sullivan — in Christian Economics

Lord Chesterfield's Eighteenth Century aphorism, "a lottery is a tax on all the fools in creation," now is challenged boldly by the sovereign State of New Hampshire. The State calls its first legal sweepstakes a monumental success.

The first legal lottery in the U.S.A. in the Twentieth Century, the New Hampshire experiment netted \$2,500,000 for the public schools. The detailed final accounting for 1964 is presented in the Congressional Record for October 22, at page A-5494.

Total ticket sales were \$5,730,093. New Hampshire public schools got \$2,500,000 under the 1963 law. Total prizes were \$1,800,000. Direct administrative expenses added up to \$1,430,093.

The first tickets were sold at Rockingham Park on March 12. Sales closed September 7. Total sales for the six-months' season were 1,910,031 tickets at \$3 each.

In the final accounting, winners were listed from 38 states, Canada, Ireland, and the Panama Canal Zone.

Approximately 1,700,000 out-of-state tourists purchased tickets during their summer travels through scenic New Hampshire. Only 13 percent of all the tickets sold were in the name of New Hampshire residents. The remaining 87 percent went to summer tourists. No sweepstakes ticket may be sold outside the State, or offered through the mails.

One ticket out of every thousand won a prize. The average value of all 1992 winning tickets for the year was \$903.60 each. But six winners carried off \$100,000 each and six others \$50,000 per ticket. Most winners got about \$200 each.

For the inexperienced player, the New Hampshire odds are simply stated: out of every thousand tickets sold at \$3 each, one will be a winner with an average of \$903.60 cash. Less than one-third of the pool is returned to the gamblers.

Although the law does not require it, Congressman Louis C. Wyman (R) was proud to present the final accounting.

"The New Hampshire experience demonstrates that an honest, efficient, and dramatic sweepstakes program can provide substantial revenue to meet public need," Congressman Wyman concluded.

The new law was signed by Governor John W. King (D) on April 30, 1963, and approved in a state-wide referendum March 10, 1964, by a majority of almost 4 to 1. Tickets may be sold only in the New Hampshire State Liquor Stores and licensed race tracks in the State.

Winners need not present their tickets for collection. The money is mailed to the address shown on the stub.

"The New Hampshire school districts will receive approximately \$2,500,000 to be distributed by the State Treasurer December 15 on a flat resident-pupil basis," Congressman Wyman explained. "New Hampshire taxpayers will thereby receive substantial relief from the mounting costs of education."

New Hampshire residents put only \$762,000 into the pool and took out \$230,000 in winnings, for a net investment of \$532,000 by the people of the State. For that investment they got \$2,500,000 for their public schools.

Massachusetts was the biggest patron, with 702 winning tickets for the year; New York next with 306 winners; New Hampshire third with 254; Connecticut fourth with 168; and New Jersey fifth, 149.

None of the six \$100,000 tickets was held in New Hampshire. The six grand prizes went two to New Jersey, two to Maryland, and one each to Michigan and New York.

In the \$50,000 winner class were four tickets from Massachusetts and one each from New York and New Jersey.

Tickets for the 1965 Rockingham drawings already are on sale. Twelve-month sales for the second year are expected to double the six-months' total for 1964.

"The sweepstakes program has been a tremendous success," says Congressman Wyman. "In establishing the program great emphasis was placed on internal controls and safeguards to insure that it will stand the test of time. Banks throughout the State are cooperating with the new sweepstakes commission in processing the tickets and funds on a daily basis. All winners are notified by telegram and are paid through normal commercial banking channels."

Nineteen other states already are considering sweepstakes along the lines of the New Hampshire plan, but much debate still is to come on both the economics and morals of the state lottery.

Throughout the Eighteenth and Nineteenth centuries, every legal lottery in America foundered at last in corruption, grand larceny, or paralyzing political scandals. The notorious Louisiana Lottery in the mid-1800's prostrated the entire State for a decade, and contaminated Louisiana politics for two generations.

As early as 1783 George Washington was moved to brand legalized gambling as "the child of avarice, the brother of iniquity, and the father of mischief."

Four years later Thomas Jefferson scolded: "Gambling corrupts our dispositions and teaches us a habit of hostility against all mankind."

Yet advocates of a national lottery claim much new propaganda ammunition in the 1964 New Hampshire experience. Throughout the world 81 nations now have legal lotteries. Last year these operations took in \$2.2 billion, and netted \$853-million for education, hospitals, charities, and social welfare grants. (Congressional Record, June 29, 1964, p. 16,720)

But in all human history, no state lottery ever has escaped eventual manipulative corruption and demoralizing public scandal. Every lottery first justifies its being on the ground of residual funds for charity. But no lottery ever funnels more than one-third its gross to charity.

Precisely at this point do we come face to face with Lord Chesterfield. If a community wishes to bestow \$1-million upon hospitals it may do so, any day, directly from the collective purse. The community gains naught by spending \$3-million into a lottery pool merely to rake off \$1-million for hospitals. The direct gift of \$1-million to hospitals still would leave \$2-million in the collective purse. Through the ages economists have asked insistently, where is the economic wisdom of spending \$3 in the lottery pool to give only \$1 to charity?

No, charity and noble works are not the historic inspiration to state lotteries. Rather, history appears to sustain William Cobbett in his 1829 dictum: "No gambler was ever yet a happy man."

True, some people will gamble, whatever the moral judgment of the times. But is that a valid political reason for placing the seal of moral sanction on the 3-for-1 charity racket?

The more one ponders it, the more eloquent rings the clarion wit of Lord Chesterfield in A.D. 1724 —

"A lottery is a tax on all the fools in creation."

Editor's Note: Mr. Sullivan (who is Coordinator of Information of the U.S. House of Representatives) points out that most lotteries return but one dollar of every three for charity. It seems clear that New Hampshire, in its first year at least, has been able to clear \$2,500,000 for its schools, and \$230,000 for its citizens, for an investment of only \$530,000 by its citizens. The "catch," of course, is that the out-of-state tourists picked up the bill (paid \$5,730,093 — got back only \$1,564,000). For how long, some wonder, will this out-of-state contribution continue?



RENDEZVOUS WITH A LUNAR RAINBOW

by John R. Brooks, M.D.

(Crew Member of The Magic—1964 Bermuda Race)

In 1726, when Benjamin Franklin was 20, he methodically recorded the events that transpired on one of his trips from England to America. His ship, the *Berkshire*, left England on August 5. On August 30, young Franklin recorded that "the moon being near full as she rose after eight o'clock, there appeared a rainbow in a western cloud, to windward of us." Franklin also had the experience on this trip of witnessing an eclipse of the sun and an eclipse of the moon just 15 days apart.

Aristotle erroneously ascribed a rainbow to the reflection of the sun's rays by rain—rather than to the fact that it was caused by refraction of light. Since this time the physics of rainbow formations has been well clarified and is completely detailed in W. J. Humphreys' *Physics of the Air* (1) and Hans Neuburger's *Introduction to Physical Meteorology* (2).

The above cut is an engraving by White from a drawing by Galg of a lunar rainbow seen at 10 P.M., October 1810, at Milbrook near Southampton, England.

On the night of June 20, 1964, the Bermuda Race fleet was approaching the finish line off St. David's Head. We, on George Nichols's Concordia sloop *Magic*, were some 15 miles north of St. David's light when Franklin King, Jr. and I heard the call for our watch. It was 0100 and the night was warm and calm, with little wind. We had seen an eclipse of the full moon at 2115 the previous evening, as we approached Bermuda. The radio reports from Bermuda had many of the larger boats over the finish line, but a good portion of the Bermuda Race Fleet was slowly beating its way up to the finish line in the warm zephyrs of the night.

The other watch had sighted the glow of Bermuda lights earlier that evening, and, as the night wore on, lights of other competitors appeared in increasing numbers. The wind had been discouragingly light following the first 36 hours of wind and rain in the Stream. *Magic* had stayed to the west of the rhumbline early on but even at that we could have tolerated further westing, and it looked like a long soft beat to the finish line. We gained some solace from the thought and the knowledge that there were many lights behind us.

As we came on deck that night, the moon was full and was surrounded by some heaped-up cumulous clouds. It was a discouraged 1000-0100 watch that we relieved, for they had made relatively little to windward. With the usual light banter that the off-going watch has for that relieving it, we said good night, assured them that the

0100-0400 watch would see improvement in ground covered, and settled back to await developments.

The wind was still light from the south. The moon was full, occasionally covered by large rain clouds, but on the whole radiating enough sunlight to make work on deck quite easy. Shortly after 0200 we entered a rain squall and for a short five minutes or so, with the wind still from the south, it rained hard. Moments after the rain ceased and the squall passed to leeward, the moon again came out from behind a cloud and we returned to our original "lighted deck."

The moon was on our starboard beam bearing approximately south southwest. A rainbow suddenly appeared on our port beam bearing northeast. It was a complete bow arising from the ocean's horizon, forming a perfect semi-circle, and disappearing into the ocean without interruption. Our lunar bow followed the rule that places the center of such a bow the same distance below the horizon as the source of light (moon) is above the horizon, and so that the viewer's eye is in line with the light source and the center of the circle formed by the rainbow. Our bow lacked color but there were shades of gray that appeared to be broken up by the refraction of what light there was. Presumably the lack of color in our spectrum related to the low order of brightness contributed by the sun's reflection from the moon (2). The rainbow lasted for a few minutes, and, as the rain passed by further to the northeast, it disappeared not to return.

Lunar bows have been recorded before and are not rare in certain parts of the world. They are much rarer than solar rainbows because the shower type of rain which is a prerequisite is more likely to occur in daytime than at night, except perhaps over oceans (2). They occur more frequently in tropical island areas. Lobeck (3) pointed out that they are common in the trade wind belt due to the frequency of thunder squalls in this area. Wentworth pointed out that both lunar and solar rainbows were relatively frequent in the Hawaiian Islands "where most of the geographically variable rainfall is of orographic origin, i.e. due to cooling of trade winds in passing over rugged island topography. Here where local showers and mists occur sporadically on days and nights which are generally clear, are ideal conditions for rainbows."

W. J. Humphreys states that lunar rainbows probably occur frequently but are not seen unless certain conditions present: a full moon is required; a clear, dark night is required; neighboring rain squalls are necessary; and a relatively dry atmosphere may well improve the light radiation. Commonly, a lunar bow is best seen soon after dark before a local or heat thunderstorm has fully rained out. This would be from 8-10 P.M. Therefore, in midlatitudes the moon bow is most likely to be seen to the west of the observer. The moon may well be in the right phase during the proper hours only three days each month, and then the proper clarity of sky may exist. Our bow was not in the west, but the timing (0215) was at a different phase in the moon's travels, which accounts for the appearance of the bow in the northeast.

In any one place, according to Humphreys, the chance of having a lunar bow is one in two years. Probably only one time in five is the sky clear enough in front of a night thunderstorm to permit full illumination of the oncoming sheets of rain. Therefore, probably one time in 30 years is the potential frequency of visualization of a lunar bow by any one man.

The remainder of our crew were somewhat skeptical of our watch's report. During the entire race there had been skepticism of much of our verbiage. Be that as it may, two men of notable honesty did see a lunar bow, as had Benjamin Franklin some 238 years before. Our only regret was that, unlike Franklin, we could not report a solar eclipse along with our lunar eclipse and lunar rainbow.

REFERENCES

1. Humphreys, W. J.: *Physics of the Air*. McGraw, Hill Co., Inc. New York, 1940.
2. Neuberger, Hans: *Introduction to Physical Meteorology*. Pennsylvania State University Press, 1957.
3. Lobeck, A. K.: *Science* 88: 187, 1938.

WEATHER FORECAST 1965-6

Continued from page 5

- normal), of which snow is 25" (10" above normal).
- 1-4, cold-windy; 5-9, precip. 2" (snow 10"), very cold; 10-11, milder-sunny; 12-15, precip. 1.5" (snow 8"); 16-17, milder; 18-20, unsettled; 21-25, violent winds, precip. .1" (snow 6"); 26-28, precip. .15" (snow flurries 1").
- Mar.:** Temp. 34° (1.8° above normal). Precip. 4.82" (.28" above normal), of which snow is 20" (5" above normal).
- 1,2, cold-windy; 3-5, precip. .82" (snow 6"); 6-10, severe damaging storm, high winds and tides, precip. 1" (10" snow and some rain); 11-12, unsettled; 13-16, milder-nice; 17-20, cold-windy; 21-23, rain 1" (snow 2")—melting may cause floods; 24-28, drizzly rain, 1"; 29-31, snow 2", changes to rain, 1", violent winds.
- Apr.:** Temp. 43.8° (1.9° below normal). Precip. 6.39" (2.39" above normal), of which snow is 6" (2.6" below normal).
- 1-4, fair-mild; 5-10, high winds and tides, rain 2"; 11-14, warm-nice; 15-18, precip. 1" (snow 3"); 19-25, showers 1.5"; 26-28, freak storm, 1.89" precip. (3" snow); 29-30, cooler.
- May:** Temp. 56° (.7° below normal). Precip. 4.2" (.72" above normal).
- 1-4, windy-cool; 5-7, rain 1"; 8-10, milder, 11-13, cool, rains 1"; 14-18, overcast, drizzle, .5" rain; 19-21, showers, .5"; 22-26, much cooler; 27-31, heavy rains, 1.2".
- June:** Temp. 67.9° (about normal). Precip. 5.36" (1.88" above normal).
- 1-5, cool, high tides, rains 1"; 6-9, milder, showers 1"; 10-12, rain .5"; 13-17, clear-cool; 18-22, cool, windy, high tides, heavy rain 1.36"; 23-27, showers .5"; 28-30, rain 1".
- July:** Temp. 72.3° (1.4° above normal). Precip. 2.38" (.89" below normal).
- 1-5, hot showers .38"; 6-11, clear; 12-16, thunder storms, 1" rain; 17-18, cooler; 19-21, windy, high tides; 22-25, hot, changeable; 26-31, warm rain, 1".
- Aug.:** Temp. 66.1° (3.3° below normal). Precip. 3" (1.05" below normal).
- 1-5, rain .5"; 6-8, showers .5"; 9-11, clear; 12-15, much cooler; 16-20, windy, cool, rain 1"; 21-23, unsettled; 24-28, fair-warmer; 29-31, gale, rain 1".
- Sept.:** Temp. 62.4° (normal). Precip. 3.83" (.12" below normal).
- 1-4, rain continues .5"; 5-8, clear; 9-15, line storm, rain 1.5", windy, high tides; 16-19, changeable; 20-22, clear, warm; 23-27, occasional showers, .83"; 28-30, stormy 1".
- Oct.:** Temp. 52.7° (1.9° below normal). Precip. 5.29" (1.54" above normal).
- 1-5, intermittent rains 1"; 6-8, clear, cold; 9-11, changeable; 12-14, rain 1"; 15-18, clear, windy, high tides; 19-23, warm storm 1.5"; 24-28, occasional showers, .79"; 29-31, rains 1".
- Nov.:** Temp. 40.6° (1.4° below normal). Precip. 2.08" (2.45" below normal).
- 1-3, rain continues .5"; 4-7, much cooler; 8-11, clear; 12-15, rain .5", cold, windy, high tides; 16-18, precip. .25" (snows 2.5"); 19-22, cold, precip. .75" (snows 7.5"); 23-26, clear, cold; 27-30, precip. .08" (rain changing to snow 1").
- Dec.:** Temp. 25.8° (4.2° below normal). Precip. 5.3" (1.34" above normal).
- 1-3, precip. .7" (snows 7"); 4-6, precip. .3" (snow flurries 3"); 7-11, cold, windy, rain 1"; 12-13, windy, high tides; 14-17, rain 1"; 18-20, precip. .3" (snow flurries 3"); 21-25, stormy, rain 1", sleet, snow; 26-31, colder, clear, then precip. 1" (snows 10").

DETERMINATION OF EARTHQUAKES

Note, in this Almanac, on right hand pages, 11-33, the dates when the moon [$\text{C}_{\text{high}}^{\text{runs}}$] or [$\text{C}_{\text{low}}^{\text{rides}}$]. Beginning with the date of the high is the most likely five day earthquake period in the northern hemisphere, with the low in the southern hemisphere. You will also find on these pages a moon on the Equator notation [$\text{C}_{\text{Eq.}}^{\text{on}}$], twice each month. At this time, in both hemispheres, is a two-day quake period.

RICHARD WHITTINGTON AND HIS CAT

*Behold a Cat whose merit wants a name:
Twas she that rais'd poor Whittington to fame.
E'en thus shall Providence provide for all,
Who duly honour him, and on his call.*

Woodcuts and text from Sidney's Press, New Haven, 1824



Dick Whittington was so small a boy, when his parents died, that he never knew them, nor the place where he was born. He wandered about as ragged as a colt, till he met with a waggoner going to London, who gave him leave to walk all the way by the side of his waggon. This much obliged little Whittington, as he was desirous to see London, for he had heard that the streets were paved with gold, and he was very willing to get a bushel of it. But the poor boy was disappointed when he saw them covered with dirt instead of gold, and found himself in a strange place, without friends, without food, and without money.

Though the waggoner was so charitable as to let him walk by the side of the waggon for nothing, yet he took care not to know him when he came to town. In a little time the poor boy was almost starved to death for want of food. In this distress he asked charity of several people, and one of them bid him go work in the fields. "That I will," said Whittington, "with all my heart; I will work for you, if

you will permit me." The man immediately sent him to make hay; but when the season was over, he was again in great distress.

In this condition, and fainting for want of food, he laid himself down at the door of one Mr. Fitzwarren, a merchant, where the cook saw him, and being very ill-natured, ordered him to go about his business, or she would make him. At this time Mr. Fitzwarren came from the exchange, and began also to scold the poor boy, bidding him go to work.

Whittington answered he should be glad to work; but he was unable at present, for he had eaten nothing for three days and knew nobody. He then endeavoured to get up, but was so very weak that he fell down again. This excited the merchant's pity, who ordered the servants to take him in, give him some food, and let him help the cook to do any drudgery she had to set him about.

He would have lived happily in this worthy family had he not been knocked about by the cross cook, who kept him roasting or basting, and when the spit was still, she employed her hands upon poor Whittington, till Miss Alice, his master's daughter, was informed of it, who made the servants use him kindly.

Besides the crossness of the cook, Whittington had another difficulty to get over. He had a flock bed placed for him in the garret, where there was such a number of rats and mice that they often ran over the poor boy's nose, and disturbed him in his sleep. After sometime, however, a gentlemen, who came to his master's house, gave Whittington a penny for brushing his shoes. This he determined to lay out to the best advantage; and the next day, seeing a woman in the street with a cat under her arm, he ran up to her, desiring to know the price of it. The woman asked sixpence for it, as the cat was a good mouser; but on Whittington's telling her he had but a penny in the world, and that he wanted a cat sadly,



she let him have it, and a fine cat she was.

This cat Whittington concealed in the garret, and here she soon killed or frightened away the rats and mice.

Soon after this, the merchant, who had a ship ready to sail, called for all his servants, as his custom was, in order that each of them might venture something to try their luck; and whatever they sent was to pay neither freight nor custom: for he justly thought that God would bless him the more for letting the poor partake of his good fortune.

All the servants appeared except poor Whittington, who having neither money nor goods, could not think of sending any thing to try his luck; but his good friend, Miss Alice, thinking his poverty kept him away, ordered him to be called.

She then offered to give something for him; but the merchant told his daughter that would not do, for it must be something of his own. Upon which poor Whittington said, he had nothing but a cat, which he had bought for a penny that was given him. "Fetch thy cat, boy," said the merchant, "and send her." Whittington brought poor puss, and delivered her to the captain with tears in his eyes, for he said he should now be disturbed by the rats and mice as before. All the company laughed at the oddity of the adventure; and Miss Alice, who pitied the poor boy, gave him something to buy him another cat.

The ship, with the cat on board, was long beating about at sea, and at last, by contrary winds, driven on a part of the coast of Barbary, which was inhabited by Moors, unknown to the English. These people received our countrymen with civility; and therefore the captain, in order to trade with them, showed them patterns of the

goods he had on board, and sent some of them to the king of the country, who was so well pleased that he sent for the captain and factor to his palace. Here they were placed, according to the custom of the country, on rich carpets flowered with gold and silver; and the king and queen being seated at the upper end of the room, dinner was brought in on massy plates of gold and silver, and placed on tables of marble with ivory and silver knives. The splendid dinner consisted of many dishes; but no sooner was it put on the table, when an amazing number of rats and mice came from all quarters, and devoured all the meat in an instant. The factor, in surprise, turned round to the nobles, and asked if these vermin were not offensive? "Yes," said they, "very offensive; and the king would give half his treasure to be free of them; for they not only destroy his dinner, as you see, but they assault him in his chamber, and even in his bed, so that he is obliged to be watched while he is sleeping, for fear of them."

The factor jumped for joy: he remembered poor Whittington's cat, and told the king he had a creature, on board his ship, that would despatch all these vermin immediately. The king was overjoyed at the news. "Bring this creature to me," said he, "and if she will perform what you say, I will load your ship with jewels in exchange for her." The factor took this opportunity to set forth the merits of Mrs. Puss, and said that it would be inconvenient for him to part with her; but that, to oblige his majesty, he would fetch her. "Run, run," said the Queen, "for I am impatient to see the dear creature." Away flew the factor, while another dinner was providing, and returned with the cat, just as the rats and mice were devouring that also. He immediately



put down puss, who killed a great part of them, and the rest ran away.

The king having seen the wonderful exploits of Mrs. Puss, and being informed that she was with young, and would furnish the whole country, bargained with the captain and factor for the whole ship's cargo, and then gave them ten times as much for the cat as all the rest amounted to.

After tarrying a few days, they sailed with a fair wind for England, whither we must now attend them.



*The morn, emerging from the
mountain's height,
Had scarcely ting'd the skies
with rosy light,*

When Mr. Fitzwarren stole from the bed of his beloved wife, to count over the cash, and settle the business of the day. He had but just entered the counting-house, and seated himself at the desk, when somebody came and tapped at the door. "Who's there?" said Mr. Fitzwarren. "A friend," answered the other. "What friend can come at this unseasonable time?" "A real friend is never unseasonable," answered the other; "I come to bring you good news of the ship *Unicorn*." The merchant instantly got up, opened the door, and who should be seen waiting but the captain and factor, with a cabinet of jewels and a bill of lading; on which the merchant lifted up his eyes, and thanked heaven for sending him such a prosperous voyage. They then told him of the adventures of the cat, and showed him the cabinet of jewels which they had brought for Mr. Whittington. Upon which he cried out with great earnestness,

*Go call him, and tell him of
his fame,
And call him Mr. Whittington
by name.*

The merchant, taking him by the hand, said, "Indeed, Mr. Whittington, I am in earnest with you, and sent for you to congratulate you on your great success. Your cat has produced you more money than I am worth in the world, and may you long enjoy it." Being at length shown the treasure and convinced by them that all of it belonged to him, he fell on his knees, thanking the Almighty for his providential care of such a miserable creature. He then gratified the captain, factor, and ship's crew, for the care taken of his cargo.

When Mr. Whittington's face was washed, his hair curled, his hat cocked, and he was dressed in a rich suit of clothes, he turned out a very genteel young man indeed, and in a little time dropped that sheepish behaviour, which was principally occasioned by a depression of spirits, and soon became a sprightly and good companion, insomuch that Miss Alice, who had formerly seen him with an eye of compassion, now beheld him differently.

When the father perceived they had this good liking for each other, he proposed a match between them. Both parties cheerfully consented, and the lord mayor, the court of aldermen, the company of stationers, and a number of eminent merchants attended the ceremony and were elegantly treated at an entertainment made for that purpose.

History tells us that they lived happily, and had several children; that he was sheriff of London in 1340, and lord mayor; that in the latter part of his mayoralty he entertained King Henry the Fifth and his Queen, after the conquest of France. Upon this occasion, the King, in consideration of Whittington's merit, said, "Never had prince such a subject." This being told Whittington at table, he replied, "Never had subject such a king."



GESTATION AND REPRODUCTION TABLE

	Proper age for first mating	Period of power of reproduction in years	No. of females for one male	Period of gestation and incubation		
				Shortest days	Mean days	Longest days
Mare.....	3 yrs.	10 to 12		325	336	352
Stallion.....	4 "	12 to 15	20 to 30			
Cow.....	18-24 mos.	10 to 14		235	282	300
Bull.....	12-18 "	10 to 12	30 to 40			
Ewe.....	18 "	6		145	147	152
Ram.....	12-14 "	7	35 to 45			
Sow.....	9 "	6		110	114	120
Boar.....	9 "	6	8 to 12			
She Goat.....	18 "	6		147	151	155
He Goat.....	18 "	5	20 to 30			
Ass.....	3 yrs.	10 to 12		356	367	378
Jack.....	4 "	12 to 15	20 to 30			
She Buffalo....	18-24 mos.	8		309	315	325
Bitch.....	16-18 "	8		58	63	67
Dog.....	12-16 "	8				
She Cat.....	12 mos.	6		58	60	64
He Cat.....	12 "	10	6 to 8			
Doe Rabbit....	6 "	5 to 6		25	30	35
Buck Rabbit....	6 "	5 to 6	30			
Cook.....	6 "	5 to 6	12 to 18			
Hen.....		5 to 6		19	21	24
Turkey.....				24	26	30
Duck.....				28	30	32
Goose.....				27	30	33
Pigeon.....				16	18	20
Pea Hen.....				25	28	30
Guinea Hen....				20	23	25
Swan.....				40	42	45
Hen or Duck's Eggs.....				22	30	34
Robin's Eggs...				13	16	19

REPRODUCTIVE CYCLE IN FARM ANIMALS

Courtesy F. N. Andrews — Purdue University

	Reoccurs if not Bred (Days)	Estrual Cycle incl. Heat Period (Days)		In Heat for		Usual Time of Ovulation
		Ave.	Range	Ave.	Range	
Mare	16	21	10-37	5-6 days	1-37 days	24-48 hours before end of estrus
Sow	19	21	18-24	2-3 days	1-5 days	Usually second day of estrus
Ewe	15	16	14-20	30 hours	20-42 hours	1 hour before end of estrus
Goat	19	20	12-25	36-48 hours	20-80 hours	Near end of estrus
Cow	20	19-20	16-24	16-20 hours	8-30 hours	14 hours after end of estrus
Bitch	180	24		21-28 days		
Cat	120			3-12 days		

THE MATING HABITS OF THE EASTERN SKUNK



Although the writer has kept many skunks in captivity during the past fifteen years and has had as many as fifty under observation at one time, the activity during the breeding period, or any information regarding the gestation period gathered through personal experience, has previously been of an indefinite nature. Ernest Thompson Seton seems to have experienced the same difficulty, for he says, "As the coupling will take place in the den and nearly always at night, the observation is not easy." He stated that "The period of gestation is nearly always 63 days — 9 full weeks," but that "in the experiments carried on at Saratoga Springs, New York, by the Department of Agriculture they have found various extensions up to as high as 72 days."

It was the writer's experience in Oregon that the mating period, which was indicated by sounds that emanated from the dens; occurred between March 1 and 15, and that the young usually were born during the second week in May, and most frequently on the 10th or 11th of that month.

Observations in the field also indicate that the impregnation may occur during a very brief season. For instance, on June 16, 1929, four litters of young skunks were observed, three of which appeared to be exactly the same age. A pair of these were kept by the writer.

The skunks wintered in a two-foot excavation made by themselves through a hole in the bottom of their large box, which was partly filled with dirt. This gave them an approximately normal winter den. Here they remained comparatively inactive until the latter part of February, although they usually came out of the burrow daily to take food.

On February 25, the writer's attention was attracted by the calls which are typical during the breeding season. On the morning of February 27, the tracks of a visiting wild skunk, attracted presumably by the female within the box, were found on the freshly fallen snow about the den of the captive skunks. This skunk had attempted to enter the box and had been successful in tearing a good-sized hole in its veneer side but had not gained entrance. At that time the captive female was in the pro-oestrous phase of the oestrous cycle.

In order to observe them more closely the pair were immediately removed to the basement and placed in a large open box.

During the following eight days, nineteen matings were attempted and the exact nature of the process and any variations as they occurred were recorded. From these records it has been possible to divide tentatively the sexual cycle of the skunk into the pro-oestrous, oestrous, and post-oestrous periods.

The Pro-Oestrum

The pro-oestrous period was first indicated as mentioned above on February 25. Five observations of attempts to mate were made during this period, the first on February 27, at 1 P.M.

In each attempt the male sought the female, and throughout the entire cycle there was no evidence that the female actively assumed an initiatory attitude. Each mating attempt began by the male's engaging the female in a struggle which from all appearances was exceedingly ferocious.

The Oestrum

Seven attempts to mate were made during this period, five of which were under continual observation, and all of these were successful. The first occurred on March 1 at 4 P.M. The male held the female by the skin of the neck. She frequently dragged him to the center of the cage where she daintily ate some meat. He would invariably release his hold from her neck and examine her activity, and after dragging her away from the meat would then renew his struggles with added vigor. The last successful mating was on March 3 at 7 P.M.

Continued on Page 67

Postal Laws

Corrected as of April 30, 1965.

First Class Matter may be forwarded from one Postoffice to another without additional postage but other matter must have new postage.

LETTERS AND POSTAL CARDS. — FIRST CLASS.

Letters and Written and Sealed Matter, 5 cents for each ounce, local and non-local except that drop letters are subject to 4 cents for each ounce when deposited for local delivery at offices not having letter-carrier service, provided they are not collected or delivered by rural or star-route carriers.

Postcards and Private Mailing Cards (max. 4 1/4" x 6"; min. 3" x 4 1/4") .04

Government Postal Cards, each .04

Stamped 5 cent Envelopes No. 10—\$28.80, 500—\$57.60, 1000.

Business Reply Cards 6 cents, Business Reply 1 oz. letters 7 cents.

NEWSPAPERS AND PERIODICALS. — SECOND CLASS.

Entire Newspapers or Magazines containing notice of second class entry when mailed by public unsealed, 4 cents for 1st two ounces, 1 cent each added 1 oz. Fourth Class Rate applies when it is lower than Second Class.

MERCHANDISE AND MISCELLANEOUS. — THIRD CLASS.

(Limit of weight up to but not including 16 ounces)

Merchandise, incomplete copies of newspapers, printed and other mailable matter unsealed, 4 cents for first two ounces, 2 cents each add'l ounce—limit 16.

Identical pieces of third-class matter may be mailed under permit in bulk lots of not less than either 50 pounds or 200 pieces, at the rate of 18 cents a pound, or fraction thereof. In case of circulars, miscellaneous printed matter, and merchandise, 12 cents a pound, or fraction thereof, in the case of books or catalogs having 24 pages or more, seeds, plants, etc., with a minimum charge of 2 1/2¢ a piece in either case. Apply to postmaster for permit. The bulk mailing fee is \$30 per calendar year.

Books, catalogs (must be of 24 or more pages and substantially bound, with at least 22 pages printed, seeds, cuttings, bulbs, roots, scions and plants, 2 ounces or fraction 4 cents, each added ounce 2 cents.)

Circulars and other miscellaneous printed matter, also merchandise, 4 cents for the first 2 ounces and 2 cents for each additional oz.

PARCEL POST. — FOURTH CLASS.

(16 oz. or over, incl. books, ptd. matter, except 1st class and second class papers mailed by publishers)

Catalogs and Similar Printed Advertising Matter, in bound form having 24 or more pages, weighing 16 ounces but not exceeding 10 pounds. (See Postmaster)

ZONES, Wgt. 1 lb.	Local	1st & 2nd	3rd	4th	5th	6th	7th	8th
And not over 1.5 lbs.	21c	25c	26c	28c	29c	32c	34c	38c
And not over 10 lbs.	36c	50c	56c	65c	77c	91c	1.07	1.25

Books: 10 cents for the first pound or fraction thereof and 5 cents for each additional pound or fraction thereof—24 or more pages permanently bound, not to exceed 70 lbs. Also incl. sound recordings. Also incl., when marked "Special Fourth-Class Rate," ptd. music, 16 mm. films and 16 mm. film catalogs (Exc. to commercial theatres), objective test material, sound recordings and mss. for books, periodical articles and music.

Library Books: 4 cents for the first pound or fraction thereof and 1 cent for each additional pound or fraction thereof—limit of weight 70 pounds—when sent by public libraries, organizations, or associations not organized for profit.

Weight Limits: 70 lbs. and 100 inches combined length and girth—except between 1st Class postoffices (Postmaster has list) where limits are: In zones 1 and 2, 40 lbs. with 72 inch combined length and girth, other zones 20 lbs. and 72 inch combined length and girth. Parcels over 84 but under 100 inches combined length and girth charged as 10 pounds.

Wt. 1 lb. but not over	LOCAL	1-2		3		4		5		6		8	
		Up to 150 miles	150 to 300 miles	300 to 600 miles	600 to 1000 miles	1000 to 1400 miles	1400 to 1800 miles	1800 to 2400 miles	2400 to 3000 miles				
2	\$0.29	\$0.40	\$0.42	\$0.46	\$0.52	\$0.59	\$0.66	\$0.72					
3	.31	.46	.49	.55	.64	.73	.83	.93					
4	.33	.51	.55	.64	.75	.88	1.01	1.13					
5	.35	.57	.62	.72	.87	1.02	1.18	1.34					
6	.37	.62	.68	.80	.97	1.15	1.34	1.53					
7	.39	.68	.75	.88	1.07	1.28	1.50	1.73					
8	.41	.73	.81	.95	1.18	1.41	1.66	1.92					
9	.43	.78	.87	1.03	1.28	1.53	1.82	2.12					
10	.45	.83	.93	1.10	1.38	1.66	1.98	2.31					
11	.47	.88	1.00	1.18	1.48	1.78	2.14	2.48					
12	.49	.93	1.06	1.26	1.58	1.90	2.29	2.66					
13	.51	.98	1.12	1.33	1.69	2.02	2.44	2.83					
14	.53	1.03	1.18	1.41	1.79	2.14	2.60	3.01					
15	.55	1.08	1.24	1.48	1.89	2.25	2.75	3.18					
16	.57	1.13	1.30	1.56	1.99	2.37	2.90	3.36					
17	.59	1.18	1.36	1.64	2.09	2.49	3.06	3.53					
18	.61	1.23	1.42	1.71	2.20	2.61	3.21	3.71					
19	.63	1.28	1.48	1.79	2.30	2.73	3.36	3.88					
20	.65	1.32	1.54	1.86	2.40	2.85	3.51	4.06					
24		2.53	3.00	3.84	5.03	6.26	7.84	9.22					

SPECIAL CLASSES. — DOMESTIC MAIL.

Special Delivery: First Class Mail: Each piece under 2 lbs.—30c, over 2 up to 10—45c, over 10 lbs.—60c. Same for air, incl. air p.p.

Parcel Post: Up to 2 lbs.—55c; over 2 up to 10—65c; over 10 lbs.—80c.

Special Handling: Parcel Post only: Up to 2 lbs.—25c, over 2 lbs. up to 10—35c, over 10 lbs.—50c. (This service expedites mail but does not include special delivery.)

Registered Mail: Up to \$10 indemnity—60c; over \$10 up to \$100—75c; over \$100 up to \$200—\$1.00; over \$200 up to \$400—\$1.25; over \$400 up to \$600—\$1.50, over \$600 up to \$800—\$1.75; over \$800 up to \$1000—\$2.00. There are special surcharges when declared values exceed indemnities—see local Postmaster about these.

Insured Mail: Third and Fourth Class Only: Indemnity up to \$10—10c, over \$10 up to \$50—20c; over \$50 up to \$100—30c; over \$100 up to \$200—40c.

C.O.D.: Indemnities up to \$5—40c; over \$5 up to \$10—50c; over \$10 up to \$25—70c; over \$25 up to \$50—80c; over \$50 up to \$100—90c; over \$100 up to \$200—\$1.00. Registered C.O.D., 40c fee plus registration fee based on value of article.

Money Orders: Limit for each is \$100. If amount of money order is from 1c to \$10 the fee is 20c, from \$10.01 to \$50 the fee is 30c, from \$50.01 to \$100 the fee is 35c.

Certified Mail: First class only having no value, add 20c to postage plus (a) 10c for return receipt showing to whom and when delivered; (b) 35c for whom, when, and address where delivered; (c) 25c for request after mailing showing to whom and when delivered. Obtain blank coupons from Postmaster.

POSTAL RATES: International SURFACE RATES

Letters: To Canada and Mexico, 5c per oz., to all other countries, 11c for the first oz. and 7c each additional oz.

Postcards: To Canada and Mexico, 4c each; 8c reply-paid. To all other countries, 7c each, 14c reply-paid. Maximum size 6 x 4 1/4 inches, minimum size 4 1/4 x 3 inches.

Printed Matter: In general, to Canada and Mexico, 4c first 2 oz., 2c each additional oz.; all other, 5c first 2 oz., 3c each additional 2 oz. Books and sheet music, to countries of the Postal Union of the Americas and Spain, exc. Spain and Spanish possessions, 2c first 2 oz.; 1c each additional 2 oz.; all other (inc. Spain and poss.) 3c first 2 oz.; 1 1/2c each additional 2 oz. Publishers' second class, F.U.A.S. countries, 2c first 2 oz., 1c each additional 2 oz., all other, 3c first 2 oz.; 1 1/2c each additional 2 oz.

Commercial Papers: To all countries, 5c first 2 oz.; 3c each additional 2 oz. Minimum charge 12c.

Samples of Merchandise: To Canada and Mexico, 4c first 2 oz.; 2c each additional oz. Minimum charge 10c. All other, 5c first 2 oz.; 3c each additional 2 oz. Minimum charge 12c.

Matter for the Blind: All countries, domestic rates apply with certain exceptions.

Small Packets: All countries, 5c each 2 oz. Minimum charge, 25c.

8-oz. Merchandise Packages: To Canada, 4c first 2 oz.; 2c each additional oz. Minimum charge, 10c. All other, 25c each (flat rate).

Registration, Insurance, Return Receipts: For detailed information concerning these services, consult your local Postmaster.

SURFACE PARCEL POST RATES

Zone 1: N. America, C. America, Caribbean Is. — 80c first 2 lbs., 30c each additional lb.

Zone 2: All other countries — 90c first 2 lbs.; 35c each additional lb.

AIR MAIL RATES: Domestic and International

Three-zone rate structure as follows: **Zone A:** N. America, C. America, Caribbean Is.; **Zone B:** S. America, Europe (exc. USSR), Mediterranean Africa; **Zone C:** USSR, Asia, the Pacific, Africa other than Mediterranean.

Air Mail Letters: United States, Canada and Mexico, 8c per oz.; **Zone A**, 13c per half oz.; **Zone B**, 15c per half oz.; **Zone C**, 25c per half oz.

"Other Articles": United States, Canada, 8c per oz.; **Zone A**, 30c first 2 oz.; 10c each additional 2 oz.; **Zone B**, 40c first 2 oz.; 20c each additional 2 oz.; **Zone C**, 50c first 2 oz.; 30c each additional 2 oz.

Post Cards and Aerogrammes (air letter sheets): Cards, United States, Canada and Mexico, 6c each (single). All other, 11c each (single). Aerogrammes, 11c each.

Air Parcel Post: For detailed information, consult your local Postmaster.

MOON WEATHER TABLE, For foretelling the Weather through all the lunations of each year, forever.

This table, and the accompanying remarks, are the result of many years' actual observation, the whole being constructed on a due consideration of the attraction of the sun and moon, in their several positions respecting the earth, and will, by simple inspection, show the observer what kind of weather will most probably follow the entrance of the moon into any of its quarters, and that so near the truth as to be seldom or never found to fail.

This weather table will answer very well for anywhere in the United States. It is taken from the 1849 issue of The Old Farmer's Almanac and was widely used before the advent of the Weather Bureau. Do not be surprised if the forecasts arrived at by this table do not agree with those on Pages 5, 72, 11-33. THE OFA goes by many factors besides the moon.

WEATHER TABLE FOR ANYWHERE

Moon	Time of Change	In Summer	In Winter
If the new moon, 1st quarter, full moon, or last quarter happens.	From Midnight to 2 A.M.	Fair	Hard frost, unless wind be S. or W.
	From 2 A.M. to 4 A.M.	Cold, with frequent showers	Snow and stormy
	From 4 A.M. to 6 A.M.	Rain	Rain
	From 6 A.M. to 8 A.M.	Wind and Rain	Stormy
	From 8 A.M. to 10 A.M.	Changeable	Cold Rain if wind be W.; Snow if E.
	From 10 A.M. to Noon	Frequent Showers	Cold & high wind.
	From Noon to 2 P.M.	Very rainy	Snow or rain.
	From 2 P.M. to 4 P.M.	Changeable	Fair & mild.
	From 4 P.M. to 6 P.M.	Fair	Fair.
	From 6 P.M. to 8 P.M.	Fair — if wind N.W. Rain — if S. or S.W.	Fair & frosty if wind N. or N.E.: Rain or snow if wind S. or S.W.
	From 8 P.M. to 10 P.M.	Same as from 6 P.M. to 8 P.M.	
	From 10 P.M. to Midnight	Fair	Fair & frosty.

Observations. — 1. The nearer the moon's changes, first quarter, full, and last quarter are to *midnight*, the fairer will it be during the next seven days.

2. The space for this calculation occupies from ten at night till two next morning.

3. The nearer to *midday*, or *noon*, the phases of the moon happen, the more foul or wet weather may be expected during the next seven days.

4. The space for this calculation occupies from ten in the forenoon to two in the afternoon. These observations refer principally to the summer, though they affect spring and autumn nearly in the same ratio.

5. The moon's change, first quarter, full and last quarter, happening during six of the afternoon hours, i.e., from four to ten, may be followed by fair weather; but this is mostly dependent on the *wind*, as is noted in the table.

6. Though the weather, from a variety of irregular causes, is more uncertain in the latter part of autumn, the whole of winter, and the beginning of spring, yet, in the main, the above observations will apply to those periods also.

7. To prognosticate correctly, especially in those cases where the *wind* is concerned, the observer should be within sight of a good *vane*, where the four cardinal points of the heavens are correctly placed.

The above table was originally formed by Dr. Herschell, and is now published with some alterations founded on the experience of Dr. Adam Clarke.

TO THE WEATHER-WISE

M. Toalda of Padua (circa 1720) asserted that the weather changes most often (85.8% of the time) when the new moon comes in; 83.4% with the full, and 66.7% with the other two phase changes. Recent studies by scientists with the U.S.W.B and N.Y.U. show heaviest rainfall comes 3 to 5 days after the new and the full moons.

Many blossoms on plum trees in the Spring, heavy fruit crops in the Fall, oak (and other) leaves remaining on trees in December indicate a severe Winter is coming up. The thickness of Fall fur on most animals, goose bones, pigs' melts, distance between caterpillar stripes also are Winter predictors. Birds, particularly owls, pileated woodpeckers, and swallows are predictors — as is, of course, the woodchuck. When hornets build nests high off the ground, expect deep snows. Bees, spiders, and ants — as well as certain flowers — are useful as short-term predictors. Nature, on the whole, however, is not easily understood and birds and animals, who should know, are often as misled by her as is mankind.

USE THIS ALMANAC ANYWHERE IN THE U.S.A.

For adjusting the Weather Forecasts to your locality, see Page 5.

The times given on the left hand calendar pages (10 to 32) are calculated (every astronomer must have some starting place) exactly for the latitude (42 deg. 22 min. north) and longitude of Boston and in EASTERN STANDARD TIME which is the time of the 75th meridian West of Greenwich, England.

To overcome the difficulties of presenting one almanac which shall be useful not only for the spot where the astronomer is standing but also for other places, we present herewith a copyrighted system of our own whereby the times as given may be corrected for wherever you happen to live.

Opposite the times given on the left hand calendar pages (10-32) for each day in the year for the Rising and Setting of the Sun, Moon and Planets you will find a capitalized key letter of the alphabet. Having the key letter for the day in question, turn to page 84 where you will find columns for each of these key letters. For your specific city, then turn to page 85 and determine the two code symbols on that page [(1)-(17) and [a-j] as well as the constant which applies to your city. Then turn to page 84 and read in the proper key letter column opposite the two code symbols the two correction figures in minutes which apply. The total correction for your city will be these two correction figures, plus the constant figure already obtained on page 85.

For example, the code symbols for Pittsburgh are (5) and "e" and the constant is +36. The permanent values of the corrections are found as follows:

From p. 84-5	A m	B m	C m	D m	E m	F m	G m	H m	I m	J m	K m	L m	M m	N m	O m	P m	Q m
Line (5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Line "e"	+10	+9	+7	+6	+5	+3	+2	+1	0	-1	-2	-4	-5	-7	-8	-10	-11
Constant	+36	+36	+36	+36	+36	+36	+36	+36	+36	+36	+36	+36	+36	+36	+36	+36	+36
Correc- tion	+46	+45	+43	+42	+41	+39	+38	+37	+36	+35	+34	+32	+31	+29	+28	+26	+25

For cities listed on page 85, interpolate between those two nearest in latitude, respectively North and South of the desired city. No inquiries will be answered unless accompanied by postage paid return envelope.

HOW TIMES ARE CONVERTED FOR YOUR TOWN

Sunrise and Sunset. The times of sunrise and sunset at Boston on April 11 are read directly from columns 4 and 6 on page 16. The key letters adjacent to these times, in columns 5 and 7, are indices to the table on pages 84-5 whereby the times of sunrise and sunset at Boston are converted into those for other key cities, to wit:—

BOSTON

Sunrise 5.10 A.M., E.S.T.
Key Letter G

Sunset 6.21 P.M., E.S.T.
Key Letter K

PITTSBURGH, PA.

Sunrise (Boston) 5.10 A.M., E.S.T.
Correction (Column G, page 84-5) +.38

Sunrise (Pittsburgh) 5.48 A.M., E.S.T.
Sunset (Boston) 6.21 P.M., E.S.T.
Correction (Column K, page 84-5) +.34

Sunset (Pittsburgh) 6.55 P.M., E.S.T.

Sun Fast. The column headed "Sun Fast" is of primary use to sundial enthusiasts. The figures therein tell how fast on each day the time indicated by a *properly adjusted and graduated* sundial will be of the time indicated by a clock. On April 11 sun time in Boston will be 15 minutes Fast of Eastern Standard Time. The time indicated by a sundial located elsewhere than in Boston is converted to clock time by applying two corrections, the "Sun Fast" correction for Boston and that for the city (using that city's two code symbols) — page 85 — under capitalized key letter I, page 84.

Length of Day. The figures in the column headed "Length of Day" give directly the length of time the Sun will be above the horizon at Boston. The length of day in other localities is found by subtracting the time of sunrise from that of sunset for each locality. (See *Sunrise and Sunset* above.)

BOSTON

Length of day 13h 11m
(From calendar
page 16, April 11.)

PITTSBURGH, PA.

Sunset (Pittsburgh) 6.55 P.M.
Sunrise (Pittsburgh) 5.48 A.M.

Length of Day 13h 07 m

Moonrise and Moonset. The procedure for finding the times of moonrise and moonset follows that for finding those of sunrise and sunset except that the constant additional correction shown below must be applied.

BOSTON		PITTSBURGH, PA.	
Moonrise	12.35 A.M., E.S.T.	Moonrise (Boston)	12.35 A.M.
Key Letter	P	Correction (Column D)	+ .26
April 11		Correction below	+ .01
Page 16			
Moonset	9.15 A.M., E.S.T.	Moonrise (Pittsburgh)	1.02 A.M., E.S.T.
Key Letter	B	Moonset (Pittsburgh)	10.01 A.M., E.S.T.

Constant Additional Correction

Longitude:	58°-77°	77°-90°	90°-103°	103°-116°	116°-128°	128°-142°	142°-155°
D	m 0	m +1	m +2	m +3	m +4	m +5	m +6

The other information concerning the Moon contained on the left hand Almanac pages 10-32 applies without correction throughout the United States.

Moon Souths. It will be noted that this year this Almanac again has omitted the usual "Moon Souths" column in favor of including full continuous columns (pages 10-32) on both "Moonrise" and "Moonset". The "Moon Souths" column seemed to serve but little purpose except that of an astrological nature; to wit, at what time the moon is in the astrological sign indicated in the next to last column pages 10-32. On the other hand, the extra moonrise and moonset information would seem to be in some demand—especially among fishermen.

Risings and Settings of the Planets. The times of the rising and setting of the naked eye Planets with the exception of Mercury are given for Boston in the table on page 34. The procedure for converting these times to those of other localities follows that for converting the times of sunrise and sunset given on page 81.

Dawn and Dark. The approximate times dawn will break and dark descend are found by applying the length of twilight taken from the table below to the times of sunrise and sunset given on the calendar pages. The latitude of the locality determines the column of the table from which the length of twilight is to be selected.

BOSTON (Latitude 42° 22' N.)		April 11	PITTSBURGH, PA. (Latitude 40° 26' N.)	
Sunrise	5.10 A.M.	Sunrise (see pg 81)	5.48 A.M.	
Subtract length of twilight (Column 3 of table)	1.33	Subtract length of twilight (Column 3 of table)	1.33	
Dawn breaks	3.37 A.M., E.S.T.	Dawn breaks	4.15 A.M., E.S.T.	
Sunset	6.21 P.M.	Sunset (see pg 81)	6.55 P.M.	
Add length of twilight	1.33	Add length of twilight	1.33	
Dark descends	7.54 P.M., E.S.T.	Dark descends	8.28 P.M., E.S.T.	

LENGTH OF TWILIGHT

Subtract from time of sunrise for dawn.

Add to time of sunset for dark.

Latitude	25°N	31°N	37°N	43°N	48°N
	to 30°N	to 36°N	to 42°N	to 47°N	to 49°N
	h m	h m	h m	h m	h m
Jan. 1 to Apr. 11	1 20	1 26	1 33	1 42	1 50
Apr. 11 to May 3	1 23	1 28	1 39	1 51	2 04
May 3 to May 15	1 26	1 34	1 47	2 02	2 22
May 15 to May 26	1 29	1 38	1 52	2 13	2 42
May 26 to July 23	1 32	1 43	1 59	2 27	—
July 23 to Aug. 4	1 29	1 38	1 52	2 13	2 42
Aug. 4 to Aug. 15	1 26	1 34	1 47	2 02	2 22
Aug. 15 to Sept. 6	1 23	1 28	1 39	1 51	2 04
Sept. 6 to Dec. 31	1 20	1 26	1 33	1 42	1 50

TIDE CORRECTIONS

To obtain the time and height of high water at any place, apply the differences below as they appear on pages 10-33 to the daily predictions for Boston (Commonwealth Pier). Where a value in the "height difference" column is preceded by an *, height at Boston should be multiplied by this ratio. The daily times of high tide at Boston are in the "Full Sea" column, pages 10-32. Daily heights are on pages 11-33.

	Time Differ- ence h.m.	Height Differ- ence Ft.		Time Differ- ence h.m.	Height Differ- ence Ft.
MAINE			PENNSYLVANIA		
Augusta	+3 50	*0.4	Philadelphia	+2 29	*0.5
Bangor	-0 05	+3.6	DELAWARE		
Bar Harbor	-0 33	+1.1	Rehoboth	-3 37	*0.4
Boothbay Harbor	-0 20	-0.8	MARYLAND		
Eastport	-0 28	*1.9	Baltimore	-4 25	*0.1
Old Orchard	-0 10	-0.7	Ocean City	-3 57	*0.4
Portland	-0 10	-0.6	DISTRICT OF COLUMBIA		
Stonington	-0 30	+0.2	Washington	-3 08	*0.3
NEW HAMPSHIRE			VIRGINIA		
Hampton	+0 15	-1.2	Norfolk	-1 54	*0.3
MASSACHUSETTS			Virginia Beach	-3 14	*0.3
Fall River	-3 16	*0.5	NORTH CAROLINA		
Falmouth	-0 40	*1.1	Beaufort	-2 59	*0.3
Hyannisport	+0 45	*0.3	Carolina Beach	-3 30	*0.4
Lynn	+0 05	-0.2	SOUTH CAROLINA		
Marblehead	-0 05	-0.3	Myrtle Beach	-3 45	*0.5
Marion	-3 16	*0.4	Charleston	-3 15	*0.5
Monument Beach	-3 06	*0.4	GEORGIA		
Nantasket	+0 10	+0.1	St. Simon's Island	-2 51	*0.7
Nantucket	+0 50	*0.3	Savannah	-2 40	*0.8
New Bedford	-3 21	*0.4	Tybee Beach	-3 26	*0.8
Oak Bluffs	+0 05	*0.2	FLORIDA		
Onset	-3 06	*0.5	Daytona	-3 20	*0.4
Plymouth	0 00	+0.1	Fort Lauderdale	-2 15	*0.3
Provincetown	+0 15	-0.3	Jacksonville	-0 40	*0.1
Scituate	-0 05	-0.5	Miami	-3 00	*0.3
Wellfleet	+0 20	+0.6	Palm Beach	-3 20	*0.3
Woods Hole	-3 01	*0.2	Port Everglades	-2 15	*0.3
RHODE ISLAND			St. Augustine	-2 20	*0.5
Block Island	-3 21	*0.3	St. Petersburg	+3 58	*0.2
Narragansett Pier	-3 31	*0.4	WASHINGTON		
Newport	-3 31	*0.4	Ilwaco	+1 44	-3.5
Providence	-3 11	*0.5	Port Townsend	+5 04	*0.5
Watch Hill	-2 06	*0.3	Seattle	+5 37	-2.0
CONNECTICUT			OREGON		
Long Island Sound	-0 02	*0.7	Astoria	+1 37	-3.3
New London	-1 47	*0.3	Cape Arago	+1 19	-4.8
NEW YORK			Yaquina Head	+1 12	-3.7
Coney Island	-3 00	*0.5	CALIFORNIA		
Long Beach	-3 57	*0.5	Catalina Island	-1 33	-5.9
Long Island Sound	+0 08	*0.7	Crescent City	+0 56	-5.0
New York City	-2 50	*0.5	Eureka	+1 20	-5.0
Ocean Beach	-3 57	*0.4	Long Beach	-1 37	-5.5
Southampton	-3 22	*0.3	Monterey	-0 03	*0.4
NEW JERSEY			Point Mendocino	+0 24	*0.4
Atlantic City	-3 57	*0.5	San Diego	-1 35	-5.9
Bayside	-0 24	*0.6	San Francisco	+0 59	*0.4
Cape May	-3 37	*0.5	Santa Barbara	-1 19	-6.0
Ocean City	-3 17	*0.4	Santa Cruz	+0 08	*0.4
Seabright					
to	-3 44	*0.5			
Seaside Park					

Example: The figures for Full Sea in Columns 10 and 11 of the left hand Almanac pages 10-32 are the times of high tide at Commonwealth Pier in Boston Harbor. The heights of these tides are given on the right hand pages 11-33. The heights are reckoned from Mean Low Water: each day has a set of figures—upper for the morning—and lower for the evening. The conversion of the times of the tides at Boston to those of Miami is given by way of illustration.

Example: Apr. 18. See page 16, column 11, for time; page 17 for height.

BOSTON		MIAMI	
High Tide (from page 16)	10:00 P.M.E.S.T.	High tide (Boston)	10:00 P.M. E.S.T.
April 18		Correction above	-3.00
Height (from page 17)	9.1 feet	High tide (Miami)	7:00 P.M.E.S.T.
		Height (Miami)	2.7 feet
		(9.1 x 0.3)	

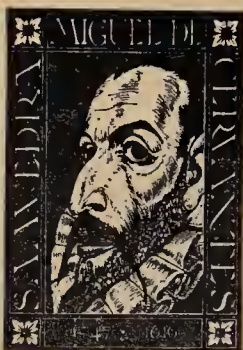
ALMANAC DATA — ALL POINTS IN U.S.A.
 TABLE FOR FINDING TIMES OF SUNRISE, SUNSET, MOONRISE, MOONSET, AND RISING AND SETTING
 OF PLANETS TO WITHIN 5 MIN. ACCURACY ANYWHERE IN U. S. A.
 (See explanation on page 81. Column key letters refer to pages 10-32, 34.)

Key Letter from pages 10-32, 34 Minutes	A m	B m	C m	D m	E m	F m	G m	H m	I m	J m	K m	L m	M m	N m	O m	P m	Q m
Code Symbols from page 85	For cities not listed Page 85, interpolate between nearest two in your time zone																
(1)	78	71	62	51	41	30	20	9	2	12	23	34	44	54	63	72	81
(2)	59	53	46	38	30	22	15	6	1	9	17	25	33	40	47	54	61
(3)	39	35	31	26	20	15	10	4	1	6	11	17	22	27	31	36	41
(4)	20	18	15	13	10	7	5	2	0	3	6	8	11	13	16	18	21
(5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(6)	20	18	15	12	10	7	4	2	0	3	6	8	11	13	16	18	21
(7)	41	36	30	25	19	14	9	4	1	6	11	16	21	26	32	37	44
(8)	62	54	45	37	28	21	13	6	1	9	16	24	32	40	47	56	67
(9)	84	73	61	48	37	27	17	7	2	11	21	31	42	52	63	76	92
(10)	108	92	76	60	46	33	21	9	2	14	26	38	51	65	80	97	120
(11)	134	112	90	71	54	39	24	10	2	16	30	45	61	78	96	119	151
(12)	164	132	105	82	62	44	27	12	3	18	35	51	70	89	112	143	184
(13)	215	155	120	92	69	49	30	13	3	20	39	57	78	101	129	170	215
(14)	No ris- ings or set- tings	180	134	102	76	53	33	14	4	22	42	63	86	112	145	210	No ris- ings or set- tings
(15)		214	149	111	81	57	36	15	4	24	45	68	93	123	163	210	No ris- ings or set- tings
(16)		No ris- ings or set- tings	162	119	87	62	38	16	4	25	48	72	100	133	181	No ris- ings or set- tings	No ris- ings or set- tings
(17)			175	126	92	65	40	17	5	26	51	76	106	142	200	No ris- ings or set- tings	No ris- ings or set- tings

a	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
b	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
c	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
d	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
e	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
f	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
g	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
h	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
i	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
j	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42

CODE SYMBOLS AND CONSTANTS — SPECIFIC CITIES —
for Adjusting Almanac to All Points in U.S.A. See Page 81

City	Time used	Code symbols	Constant	City	Time used	Code symbols	Constant
Akron, O.	EST	(5) c	+42	Macon, Ga.	EST	(4) g	+50
Albany, N. Y.	EST	(6) i	+11	Manchester, N. H.	EST	(6) i	+2
Albuquerque, N. M.	MST	(4) e	+22	McKeesport, Pa.	EST	(5) e	+35
Allentown, Pa.	EST	(5) e	+18	Medford, Mass.	Same as Boston		
Amarillo, Texas.	CST	(4) e	+63	Memphis, Tenn.	CST	(4) e	+16
Anchorage, Alaska.	150°	(13) c	+14	Miami, Fla.	EST	(3) l	+37
Arlington, Va.	See Washington			Milwaukee, Wis.	CST	(6) l	+7
Asheville, N. C.	EST	(4) e	+46	Minneapolis, Minn.	CST	(6) b	+29
Atlanta, Ga.	EST	(4) h	+53	Mobile, Ala.	CST	(3) d	+8
Augusta, Ga.	EST	(4) h	+44	Montgomery, Ala.	CST	(4) j	+1
Austin, Texas.	CST	(3) c	+47	Montreal, Que.	EST	(6) b	+10
Baltimore, Md.	EST	(5) c	+22	Muncie, Ind.	CST	(5) e	-3
Bangor, Me.	EST	(6) d	-9	Nashville, Tenn.	CST	(4) d	+3
Beaumont, Texas.	CST	(3) c	+32	New Bedford, Mass.	EST	(5) b	-1
Bethlehem, Pa.	EST	(5) e	+17	New Haven, Conn.	EST	(5) e	+7
Binghamton, N. Y.	EST	(5) a	+19	New Orleans, La.	CST	(3) d	+12
Birmingham, Ala.	CST	(4) i	+3	New York, N. Y.	EST	(5) d	+16
Bismarek, N. D.	CST	(7) l	+59	Newark, N. J.	EST	(5) d	+12
Boise, Idaho.	MST	(6) g	+61	Norfolk, Va.	EST	(4) b	+21
Bridgeport, Conn.	EST	(5) c	+8	Oakland, Cal.	PST	(5) j	+25
Buffalo, N. Y.	EST	(6) i	+31	Oak Park, Ill.	CST	(5) a	+7
Burlington, Vt.	EST	(6) e	+9	Oklahoma City, Okla.	CST	(4) e	+46
Butte, Mont.	MST	(6) a	+46	Omaha, Neb.	CST	(5) e	+39
Camden, N. J.	EST	(5) e	+16	Ottawa, Ont.	EST	(6) b	+18
Canton, Ohio.	EST	(5) d	+41	Pasadena, Cal.	PST	(4) g	+8
Cedar Rapids, Ia.	CST	(5) a	+22	Paterson, N. J.	EST	(5) c	+12
Charleston, S. C.	EST	(4) i	+35	Peoria, Ill.	CST	(5) d	+14
Charleston, W. Va.	EST	(5) i	+42	Philadelphia, Pa.	EST	(5) e	+17
Chattanooga, Tenn.	EST	(4) e	+57	Phoenix, Ariz.	MST	(4) e	+44
Chester, Pa.	EST	(5) e	+17	Pittsburgh, Pa.	EST	(5) e	+36
Cheyenne, Wyo.	MST	(5) c	+15	Pittsfield, Mass.	EST	(5) i	+10
Chicago, Ill.	CST	(5) a	+6	Pontiac, Mich.	EST	(6) i	+49
Chicagot, Ohio.	EST	(5) h	+54	Portland, Me.	EST	(6) g	-3
Cleveland, Ohio.	EST	(5) b	+43	Portland, Ore.	PST	(6) b	+26
Columbia, S. C.	EST	(4) g	+40	Providence, R. I.	EST	(5) a	+1
Columbus, Ga.	EST	(4) j	+56	Pueblo, Colo.	MST	(5) i	+14
Columbus, Ohio.	EST	(5) e	+48	Quincy, Mass.	Same as Boston		
Corpus Christi, Tex.	CST	(3) g	+45	Racine, Wis.	CST	(6) l	+7
Covington, Ky.	See Cincinnati			Raleigh, N. C.	EST	(4) d	+30
Dallas, Tex.	CST	(4) i	+43	Reading, Pa.	EST	(5) e	+19
Dearborn, Mich.	EST	(5) -	+49	Reno, Nev.	PST	(5) f	+15
Decatur, Ill.	CST	(5) f	+12	Richmond, Va.	EST	(4) a	+25
Denver, Colo.	MST	(5) f	+16	Roanoke, Va.	EST	(4) a	+36
Des Moines, Ia.	CST	(5) b	+30	Rochester, N. Y.	EST	(6) b	+26
Detroit, Mich.	EST	(5) -	+48	Rockford, Ill.	CST	(5) a	+12
Duluth, Minn.	CST	(7) l	+24	Sacramento, Cal.	PST	(5) l	+22
Durham, N. C.	EST	(4) d	+31	Saginaw, Mich.	EST	(6) h	+52
E. Orange, N. J.	EST	(5) d	+13	Saint Joseph, Mo.	CST	(5) f	+35
E. St. Louis, Ill.	See St. Louis			Saint Louis, Mo.	CST	(5) i	+17
El Paso, Tex.	MST	(3) a	+22	St. Petersburg, Fla.	EST	(3) g	+46
Erle, Pa.	EST	(5) a	+36	Salt Lake City, Utah.	MST	(5) d	+43
Evansville, Ind.	CST	(5) j	+6	San Antonio, Texas.	CST	(3) e	+50
Fairbanks, Alaska.	150°	(17) -	+6	San Diego, Cal.	PST	(4) i	+4
Fall River, Mass.	EST	(5) b	0	San Francisco, Cal.	PST	(4) -	+25
Fresno, Cal.	PST	(4) b	+14	San Jose, Cal.	PST	(4) a	+23
Galveston, Texas.	CST	(3) e	+35	Santa Monica, Cal.	PST	(4) a	+8
Gary, Ind.	CST	(5) b	+5	Savannah, Ga.	EST	(3) -	+40
Grand Rapids, Mich.	EST	(6) i	+58	Seranton, Pa.	EST	(5) b	+18
Greensboro, N. C.	EST	(4) c	+35	Seattle, Wash.	PST	(7) d	+25
Hamilton, Ohio.	EST	(5) f	+54	Shreveport, La.	CST	(4) j	+31
Hammond, Ind.	CST	(5) b	+5	Sioux City, Iowa.	CST	(6) j	+41
Hamtramck, Mich.	See Detroit			Sioux Falls, S. D.	CST	(6) g	+43
Harrisburg, Pa.	EST	(5) e	+23	So. Bend, Ind.	CST	(5) b	+1
Hartford, Conn.	EST	(5) a	+6	Spokane, Wash.	PST	(7) c	+15
Holyoke, Mass.	EST	(5) a	+6	Springfield, Ill.	CST	(5) f	+4
Honolulu, Hawaii.	150°	(2) f	+47	Springfield, Mass.	EST	(5) a	+6
Houston, Texas.	CST	(3) d	+37	Springfield, Mo.	CST	(4) a	+29
Huntington, W. Va.	EST	(5) l	+46	Springfield, Ohio.	EST	(5) e	+51
Indianapolis, Ind.	CST	(5) f	0	Stamford, Conn.	EST	(5) c	+10
Irrvington, N. J.	EST	(5) e	+13	Stockton, Cal.	PST	(5) j	+21
Jackson, Mich.	EST	(5) -	+53	Syracuse, N. Y.	EST	(6) i	+20
Jackson, Miss.	CST	(4) j	+16	Tacoma, Wash.	PST	(7) h	+25
Jacksonville, Fla.	EST	(3) c	+42	Tampa, Fla.	EST	(3) f	+45
Johnstown, Pa.	EST	(5) e	+31	Terre Haute, Ind.	CST	(5) f	+5
Juneau, Alaska.	135°	(11) c	+14	Toledo, Ohio.	EST	(5) b	+50
Kalamazoo, Mich.	EST	(5) -	+58	Topeka, Kans.	CST	(5) h	+38
Kansas City, Mo.	CST	(5) h	+34	Trenton, N. J.	EST	(5) e	+15
Lakewood, Ohio.	EST	(5) b	+43	Washington, D. C.	EST	(5) h	+24
Lancaster, Pa.	EST	(5) e	+21	Waterloo, Iowa.	CST	(6) j	+25
Lansing, Mich.	EST	(6) i	+54	W. Palm Beach, Fla.	EST	(3) h	+36
Lawrence, Mass.	EST	(6) i	0	Wheeling, W. Va.	EST	(5) e	+39
Lexington, Me.	EST	(6) f	-3	Wichita, Kans.	CST	(4) -	+45
Lexington, Ky.	EST	(5) l	+54	Wilmington, Del.	EST	(5) f	+18
Lincoln, Neb.	CST	(5) d	+45	Winnipeg, Man.	CST	(7) -	-44
Little Rock, Ark.	CST	(4) f	+25	Worcester, Mass.	EST	(5) a	+3
Los Angeles, Cal.	PST	(4) g	+9	Youngstown, Ohio.	EST	(5) c	+38



DON QUIXOTE

DE LA MANCHA

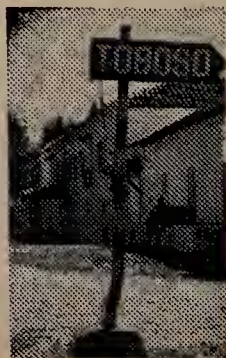
By Miguel De Cervantes Saavedra

Illustrated by Gustave Doré

There follow herewith excerpts from this most popular story ever written. Originally published in Spain in two parts (1605 and 1615), it has been translated into every known language and remains (as does Shakespeare) as popular today as it ever was. Cervantes, its author, what with poverty, being held as a slave, and languishing in prison, did not have a happy life. The book, however, rather than being one of rebellion against his own bad luck, seems to be rooted in the obsession of Cervantes' contemporaries (especially the landowners) with the then popular, astounding, and fantastic traditions of Knighthood: King Arthur, Amadis, Palmerin, Don Belianis, Rinaldo, Tirante, and El Cid.

Don Quixote is the story of one individual so taken in by such fantasies that he loses his mind in them and prepares to become one of these great knights himself. His adventures and those of his servant, Sancho Panza, are witty, droll, fantastic, pathetic, and original.

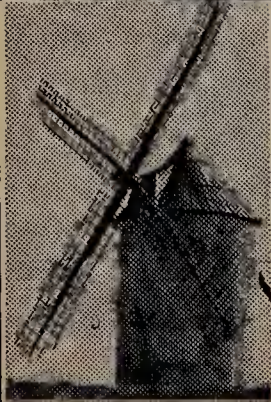
These experiences take place in a hot, dusty plain south of Madrid, known as La Mancha. They begin near Manzanares, proceed through El Toboso (the home of Don's Dulcinea), and terminate around Zaragoza. The photographs, chosen from hundreds taken along this route by this editor, in 1954, show little change in scenery, streets, and buildings over the 300 years since Don Quixote was first published.





DON QUIXOTE AND SANCHO SETTING OUT

Quixote having obtained the services of Sancho Panza as his squire, mainly by suggesting that some fortunate adventure may confer on him the governorship of an island, they set out at night, and by break of day find themselves beyond the chance of pursuit. Sancho begs his master not to forget his promise of the island; "for I dare say," adds he, "I shall make shift to govern it, let it be never so big." The Don makes reply, "You must know, friend Sancho, that it has been the constant practice of knights-errant in former ages to make their squires governors of the islands or kingdoms they conquered." (Part I, Chapter 7.)



THE ADVENTURE WITH WINDMILLS

Imagining some windmills to be a set of giants, with enormous whirling arms, Don Quixote, though dissuaded by the sane and prosaic Sancho, rode full-tilt at them (Part I, Chapter 8), with the result here depicted.

Left: Present day windmill at Mata del Cuevo.



SANCHO BEING TOSSED IN A BLANKET

This plate illustrates the famous incident in "Don Quixote" where the knight, having ridden away (without paying his reckoning) from the inn which he had mistaken for a castle, was induced to return owing to the absence of Sancho. He found that worthy being tossed in a blanket in the inn yard by four Segovia clothiers, three Cordova point-makers, and two Seville hucksters—"all brisk, gamesome, arch fellows." (Part I, Chapter 16.)



THE VALIANT CHARGE

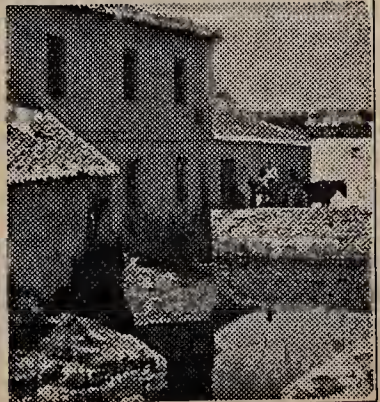
Don Quixote, having seen a great dust along the road which he and Sancho were pursuing, was persuaded an army was approaching. He determined to do battle. After awhile, it was plain enough to Sancho that the dust was caused by a flock of sheep: not so to Quixote. He believed that he was in the thick of the enemy, charged the squadron of sheep with great valour, and laid several dead and wounded on the ground. He was rewarded for his pains by a terrible stoning from indignant shepherds. They almost broke his ribs, and knocked out three or four of his teeth. (Part I, Chapter 17.)



THE FULLING-MILLS

While straying about in a solitary, woody country, Don Quixote and Sancho were astonished at hearing a prodigious noise. The former immediately rejoiced in the prospect of an adventure suited to his prowess. In the morning they moved towards the source of the commotion, and discovered the above fulling-mill, had made the terrible noise. (Part I, Chapter 19.)

Right: Present-day fulling-mill near Ciudad Real.





DON QUIXOTE IS SENT HOME

The Don, after some strange performances in the Sierra Morena, returned again to the inn at which Sancho had been so scurvily treated by being tossed in a blanket. Thereupon, he took it into his head not merely that the inn was a castle but that it was enchanted. The people there thought he must be mad, and he should be sent home. They placed him in a cage, shut him in, nailed the bars of it fast, and placed it on an oxcart. Don Quixote was amazed. "Among all the volumes of chivalry that I have turned over," said he, "I never read before of knights-errant drawn in carts, or tugged along so leisurely by such slothful animals as oxen." (Part I, Chapters 42-3.)



THE DON AGAIN DECEIVED

Sancho Panza (Part II, Chapter 10) resolved to play a trick upon his master, by swearing the first country wench they met to be that paragon of beauty, Dulcinea del Toboso, the Don's beloved. They presently saw three lasses coming along the road, and Sancho stood to it that one was Dulcinea. He went down upon his knees. The knight also humbled himself, but looked at the country-girl (who was blubber-cheeked and flat-nosed) with dubious and disconsolate eyes. He supposed that his Dulcinea was in the power of a malignant magician, and had been thus transformed. "Rise, Sancho," said Don Quixote; "for I am now convinced that my malicious stars, not yet satisfied with my past misfortunes still shed their baleful influence."

And to the girl: "In the submission and genuflection which I pay to thy beauty, even under the fatal cloud that obscures it, read the humility with which my soul adores thee."

"Tittle-tattle!" replied the country wench. "Spare your breath to cool your porridge, and rid me of your idle gibberish. Get you on, sir, and let us go; and we shall think it a kindness." This said, Sancho made way for her and let her pass, overjoyed that his plot had succeeded so well. The imaginary Dulcinea was no sooner at liberty than her beast fell a-kicking at such a rate that down came the Lady Dulcinea. Don Quixote ran to help her up, and Sancho to re-settle and gird her pack-saddle; which being done, the knight, very courteously, was going to take his enchanted mistress in his arms, to set her on her saddle; but she, being now got on her legs, took a run, and, clapping her hands upon the ass's crupper, at one jump leaped into her pannel as swift as a hawk.



THE ADVENTURE OF THE ENCHANTED BOAT

On the road again, Don Quixote and Sancho found a little boat in the River Ebro. The Don concluded that it had been thrown in his way by an enchanter, who desired him to embark and hasten to the succour of another knight. Accordingly, much to the dissatisfaction of Sancho, they entered the boat and drifted until they beheld two great water-mills on the middle of the river. To the Don these mills appeared to be enchanted castles where he would find the distressed knight. They advanced but were soon stopped by the poles of the millers. This upset the boat, and knight and squire fell into the stream, from whence the men dragged them forth. The boat—which proved to be the property of the millers—was broken to pieces, and Don Quixote had to pay fifty reals for it. (Part II, Chapter 29.)



THE END OF THE TRAIL

Towards the end of Part II, Chapter 33, Cervantes brought the Don and Sancho into the area of Zaragoza, where they were picked up by hunters and persuaded to reside in the Palace at Pedrola, which now belongs to the Duke and Duchess de Villahermosa. It was here (in the room shown above) the Duchess finally convinced Sancho that he had at last become a real governor, and that his province would be the Island of Barataria in the nearby River Ebro. In 1905, the third centenary of Don Quixote's visit to the Palace was celebrated—an occasion marked by the presence of many dignitaries, memorable addresses, specially-designed medals, and a beautiful 200-page book with four-color illustrations.

**DR. HILL'S
SIGHT
PRESERVER
1773**



FIRST, never sit in absolute gloom, or in a Blaze of Light, much less go suddenly from one into the other: A House situated North and South, is therefore wrong for any who are tender in their Sight. Secondly, avoid small Print in Reading, and all Attention to minute Objects. It is in vain to think of assisting the Sight by Glasses; they represent the Objects plainer, but they commit a Kind of Violence upon the Eye, and always hurt weak ones. Thirdly, Never read in the Dusk; and when the Eyes are at all disordered, not by Candle Light. Fourthly, Never look into a bright Fire. Fifthly, Avoid all glaring Objects, especially in the Morning at first waking; therefore a Bed-chamber should never be so situated, as for the Sun to shine into it at that Time; and there should be no Red, nor too much White in it; and the Degree of Light should be moderate. Those who have weak Eyes, will find great Advantage in green Furniture in their Rooms, and in admitting the Light gradually to their Eyes at the Time of waking: And it is thus Nature provides for all her Creatures; the Day Light comes by very slow Degrees, and the first Object is universal green.

For a Weakness in the Sight, take two Ounces of the Leaves of Rosemary, and put them into a Pint of Brandy; let it stand three Days, then strain and filter it through Paper; mix a Tea Spoonful with Four of Plantain Water; make it warm, and wash the inside of the Eye every Night going to Bed, moving your Eye till some get between the Eye and the Lid. By Degrees put less and less Water, till at length a Tea Spoonful of each be mixed.

HOUSE PAINT—1809

TAKE, in the following proportion, one peck of lime, from the kiln, dissolve it in skimmed milk, add one lb. of common turpentine (not spirits of) and half a peck of fine white sand, boll the whole for at least half an hour, and continue to keep it boiling hot until laid on with a brush. It need not be mentioned that it must be well stirred, in order to render the mixture complete. This varnish is permanent, and more impervious to the weather than any other in use.

**1965 CHILDREN'S ACCIDENT
PREVENTION FOLDER**

Only one of the 250,000 potential poisons easily available in all neighborhood stores poisoned 100,000 children last year—and killed 144. This was aspirin. "Baby" aspirin, candy-flavored, has an especial appeal . . . BEWARE! Lead paint, chewed from window sills, also tastes like candy and also is poisonous. Do not keep Boric Acid in the house—it's no good for diaper rash . . . or baby's formula mix . . . and it is poisonous. The Jequirly Bean—a small, scarlet bean with a black spot—may be among your beads or jewelry; it's inner meat is very poisonous. You should burn all such. These, and a great many other hints (and instructions) can be yours. Send 10¢ to Children's Hospital, 300 Longwood Ave., Boston, Mass. 02115. Ask for *Poison Pamphlet*.

Science Reveals New Facts about Liniment Benefits

One of man's best known treatments for tired, aching muscles receives new confirmation of effectiveness from modern medical research



PROBABLY the first treatments for sore, stiff muscles caused by over-exertion was massage. Through the ages, man tried various combinations of tinctures, unguents and oils to improve the effectiveness of massage.

Absorbine Jr., a special combination of relief-giving medications, proved to have a most remarkable relief effect when massaged on tired, aching muscles.

While medical science has always known the beneficial effects of liniment massage, only recently, through the miracle of electronic research, have scientists actually been able to measure many benefits of the special Absorbine Jr. formula.

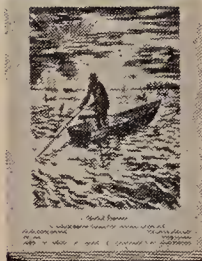
A leader in bio-medical elec-

tronics, using scientific procedures, proved that Absorbine Jr. brings back fatigued muscles twice as fast as nature can. Even without massage, the application of Absorbine Jr. doubled the speed of recovery of fatigued muscles.

Many people are not aware this unique liniment actually treats the cause of sore, tired muscles. They "just sit and ache" or resort to pills in the hope of masking pain.

Now science confirms the beneficial effects of Absorbine Jr. No longer is it necessary to "just sit and ache." The new Pres-O-Matic applicator makes it easy to use. Just rub on clean, refreshing liquid Absorbine Jr. and see how much faster you feel better.

YANKEE



The
Perfect
Gift
for
Family
Friends
and/or
Yourself

YANKEE MAGAZINE

\$3.00 per year (12 issues) and 12 beautiful full color post-cards (2 for each New England State) free of charge for you. If not fully satisfied, money refunded and you keep the postals free and clear.

For free sample copy send postal to

YANKEE, INC.

Publisher,

**THE OLD FARMER'S ALMANAC(K)
DUBLIN, N. H. 03444**

MAKE MONEY WRITING ..short paragraphs!

You don't have to be a trained author to make money writing. Hundreds now making money every day on short paragraphs. I tell you what to write, where and how to sell; and supply big list of editors who buy from beginners. Lots of small checks in a hurry bring cash that adds up quickly. No tedious study. Write to sell, right away. Send for free facts.

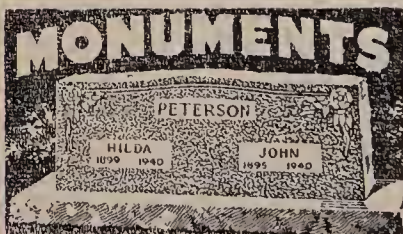
BENSON BARRETT Dept. 184-L
6216 N. Clark Street, Chicago, Illinois 60626

MAGNIFYING 1/2 FRAME GLASSES



Half-frame design lets you see SHARP and CLEAR for reading fine print and doing detail work, yet allows you regular non-magnified vision over the top of the lenses. 2.25 diopter polished ground lenses. For folks over 40 without astigmatism or eye disease who simply need magnifying lenses. \$3.98 plus 25c includes case.

NEL-KING PRODUCTS, Dept. ON-116D
811 Wyandotte, Kansas City 5, Mo.



DIRECT TO YOU — EASY TERMS

Solid granite Rockdale Monuments and Markers, priced as low as \$14.95. Beautifully carved, full name and dates. Shipped freight prepaid. Satisfaction guaranteed. FREE CATALOG. Address, Dept. 91.

**LOW
DOWN
PAYMENT**

ROCKDALE MONUMENT CO., JOLIET, ILL.

BURIAL INSURANCE

Leave your loved ones a cash estate—not a pile of bills.

\$1000 policy to age 80. No salesman will call on you. Money Back Guarantee... For FREE details write Crown Life of Illinois, 203 N. Wabash Ave., Chicago, Ill. 60601 Dept. 4



Build This Beautiful Grandfather Clock

Send only \$1.00 for complete plans and instructions plus catalog of clock movements, dials, case plans and kits for building Grandmother, Grandfather, Terry, Steeple, and other fine clocks.

Mason & Sullivan Co.
Dept. AL, Osterville, Mass.



CHAIR CANING KITS

Now anyone can restore his favorite antique and heirloom chairs easily and inexpensively with a Newell Caning Kit. Tools, natural cane, and "easy-to-follow" instructions, all post paid for only \$2; extra cane \$1 chair-loc.

NEWELL WORKSHOP, Dept. FA
19 Blaine Ave., Hinsdale, Ill.

WORRIED, NERVOUS Over Change-of-Life?

In doctor's tests woman after woman got amazing relief from change of life discomforts...hot flashes and nervous tension.

Don't dread those endless years of misery, of sudden hot flashes, of weakness, irritability.

If you are going through the "change," do as thousands of women do—take a special woman's medicine—Lydia E. Pinkham Tablets developed to help women by relieving such functionally caused female

distress.

In doctor's tests woman after woman found that Pinkham's Tablets gave dramatic help without costly "shots." Irritability was soothed, hot flashes subsided. So don't sit and brood about the "change." You can feel better. Get Lydia E. Pinkham Tablets today.

The gentle medicine with the gentle name **LYDIA E. PINKHAM**

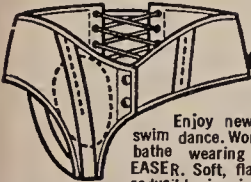


**RUPTURE
-EASER**
(A PIPER BRACE TRUSS)

Makes Life Worth Living

Pat. No. 2608581

**No Fitting
Required**



Right or left

\$4.95

Enjoy new freedom to run, swim dance. Work, play, sleep, even bathe wearing your RUPTURE-EASER. Soft, flat groin pad holds reducible inguinal hernia without steel or leather bands. Merely adjust back lacing and leg straps, snap in front! For men, women, children. Give measure around lowest part of abdomen, state right or left side or double. Enclose 25c for postage and handling. Delay may be dangerous. Order today.



DOUBLE \$6.95 10-Day Money-Back Trial

PIPER BRACE COMPANY

811 Wyandotte Dept. ON-116
Kansas City 5, Mo.

LIFE SUBSCRIPTION

To The Old Farmer's Almanac
Only Ten Dollars

YANKEE, INC. DUBLIN, N. H.

1 Minute of Simple Care in Minor Injuries—

CUTS • BURNS • SCRATCHES • SCALDS
Neglecting minor cuts, burns, scratches, scalds, non-venomous insect bites may cause serious infection and pain. OIL-O-SOL provides long lasting anti-bacterial action without irritation, helps speed healing, eases pain. Dressings saturated with OIL-O-SOL will not stick. A coast-to-coast favorite in first aid. In 1, 2, 4 ounces, pints, gallons. Get OIL-O-SOL at your druggist today or send 25c for generous sample to—MOSSO CO., 4450 N. Ravenswood, Chicago, Ill. 60640. Dept. B-1.



Soothing **OIL-O-SOL**
FORMERLY OIL-O-SALT



**Genuine Dupont Plastic
NEW FALSE PLATE**

From Your Old, Loose Plate. NO IMPRESSIONS NEEDED. New revolutionary Duplication System

Only **\$18.95**

Plates Required \$5.00
actually transforms your old loose, cracked, chipped plate into a new, natural-pink Dupont Plastic Plate with same teeth or new, natural matched teeth. **ONE DAY SERVICE!** SEND NO MONEY—just your name and address for FREE details. Save at our low price. Highest prices paid for Dental Gold.

FREE: 6 months' supply False Plate Cleaner to all who write for our money saving offer.

ALL STATE DENTAL LABORATORIES
32 N. State St. Dept. 555 Chicago 60602

**30-DAY
MONEY
BACK
TRIAL**

BLISS RUBBING LINIMENT for Relief of Superficial Pain due to sprains, stiff or aching muscles, chilblain, skiing soreness, frost bite, cold sores, pimples, insect bites, minor cuts & bruises. Made from Tinctures and Oils of Ten desirable Medicinal Herbs. 4. oz. \$1.00 At your Druggist, Golf or Ski Area 12. oz. \$2.00 Montreal, Canada Alonzo O. Bliss Medical Co. Washington, D.C.

VALUABLE CANADIAN LANDS

Seized for Tax Sale

AS
LOW AS **\$1 AN ACRE**

Non-Profit—Buy Directly
From Local Tax Authorities

Would You Buy At These Prices?

- 100 Acres, Rural, no Bldg \$27
- Waterfront Cottage, 2 Acres \$107.77
- Hunting Camp, Northland \$17
- 200 Acre Farm w/Bldgs \$436
- City Building Lot \$186
- 100 Acres near large city \$207
- Bldg & Lot, small town \$407
- Wooded Vacation Island \$83.29

Unusual investment or retirement opportunity. Thousands of valuable properties in Canada are offered for tax arrears sales each year. All at far below their true market value. Exclusive Tax Journal each month publishes official Government lists of properties offered for sale because of tax arrears due to death, illness or financial hardship. **NON-PROFIT.** No middleman. You buy directly from local tax authorities, get perfect legal title with tax deed. Hundreds of campsites, islands, buildings, homes, farmlands, vacation and retirement properties included in latest list. Majority located near Canadian border. Not necessary to travel to inspect. Check over legal descriptions from your armchair and evaluate properties with simple formula we supply you. Then order and take possession later on your vacation or retirement. Free copy of latest monthly list and photos mailed promptly, plus inside reports on best hunting and fishing areas, and copy of official hunting and fishing regulations. Simply send \$1 (refundable) to **ONTARIO REGISTER**, Room 200, 92 King Street East, Toronto 1, Canada. For rush air mail add 50c.

CRANE'S SPECIFIC

"Tried & true, since 1892"

A soothing balm to relieve coughs sore throat and hoarseness due to simple colds. Bottle of 4 ozs. \$2.00

Alonzo O. Bliss Medical Company
Washington, D.C.

Second Chance for HIGH SCHOOL DROPOUTS

Get your diploma at home in your spare time—the easy, short-cut Academy way. Standard texts. Simplified multiple-choice question and answer lessons. All the help you need from experienced, friendly teachers. Full credit for previous schooling. Write today for **FREE** booklet!

ACADEMY FOR HOME STUDY

6355 North Broadway, Chicago, Ill., Dept. 04013



20 METAL MOLDS \$1.00 PPD.
To Make Old-Fashioned Hard Candies!

BIG 70 pg. CATALOG
of cake decorating, candy, confectionery & supplies.
25¢ extra, applied to first catalog order.

20 exquisite individual metal hard candy molds, all the traditional shapes—birds, chicks, ducks, animals, fish, nuts and many others. With delicious recipes for old-fashioned hard candies. Imported from Germany 1 1/4 to 2". Also to make delightful cookies, chocolates and crystal sugar cake decorations.

GENERAL SUPPLIES, Dept. GD-54, Fallbrook, Calif.



THE SPECIALIST by CHIC SALE

*The book that has made
folks laugh since 1929*

Order from your bookstore or
SPECIALIST PUBLISHING CO.

CARMEL, CALIF. 93921

Price \$1.50 Postpaid

SKINNY?

**NEW EASY WAY HELPS PUT ON
POUNDS & INCHES FIRM SOLID
FLESH . . . FAST**



If you are skinny, thin and underweight because poor eating habits, take **WATE-ON!** Extra rich in weight building calories plus vitamins, minerals, energy elements and body building nutrients. **Wate-On** puts on firm solid flesh or money back. Fast weight gains of 5-10-15 pounds and more reported. Helps fill out bust-line, cheeks, arms, legs . . . helps put on flesh all over the body. If underweight is due to disease, take **Wate-On** under direction of your doctor. 3 flavors—**Strawberry**, **Butterscotch** and **Banana**. Don't be skinny. Ask at druggists.

WATE-ON

KEEP DRY THE FEMININE WAY



\$5.95
plus 25c
postage

with 3 snap-in,
washable
absorbent
pads



FEMALE-DRI GARMENT

NEW—An easy way to help stop the embarrassment of wet garments and bedding. Nothing else like it! FEMALE-DRI can be worn day and night to

give constant protection and confidence. High quality narrow elastic belt, wet-proof pad holder. Soft, absorbent reusable cotton pad snaps in—removes easily for laundering. Easy to put on, invisible under clothing. Satisfaction guaranteed or money back if returned postpaid within 30 days. Comes in plain envelope. Send waist measurement.

PIPER BRACE CO. Dept. ON-116F
811 Wyandotte Kansas City, Mo. 64105

KEEP DRY THE MASCULINE WAY



\$5.95
plus 25c
postage

with 3 snap-in
washable
absorbent
pads



Patent Pending

MALE-DRI SUPPORT



Here's the easy, sanitary way to stop the embarrassment of wet garments and bedding. Wear MALE-DRI, the day-and-night garment that gives you constant protection and confidence. High-quality elastic belt, wet-proof pouch. Quilted

absorbent reusable cotton pad snaps in—removes easily for laundering. IDEAL IN POST-OPERATIVE CASES FOR THIS CONDITION. Guaranteed satisfaction or money back if returned postpaid in 30 days. MALE-DRI comes to you in plain envelope. Send measure around waist.

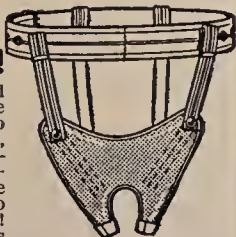
PIPER BRACE COMPANY • Dept. ON-116M
811 Wyandotte Street • Kansas City, Mo.

Such SAFE Comfort for

Reducible
Inguinal

RUPTURE!

Rupture-Gard makes you more comfortable two ways — in body, because no pressure grips you — in mind, because rupture feels so safely supported! Rupture-Gard is suspended from the waist. Double pad of firm molded foam rubber holds rupture like a pair of hands — moves with body, no matter how sharply you move. Washable: adjustable as trouser-belt. 30-day trial: money-back guarantee. \$9.95 plus 25c postage—just give waist measure.



THE KINLEN CO., Dept. ON-116W
809 Wyandotte Kansas City, Mo.

ASK GRANDPA, he knows all about ROCK CANDY, the old reliable for coughs from colds. Always had some about the house. Sometimes he gave us some if we were good. Also kept some for himself, — mixed it with some stuff from a bottle . . . Said it was his medicine. Ask your dealer. Refined by Dryden & Palmer, Long Island City, N. Y. ever since 1880.



"A Changed Woman, by Gravy"

Cheer up Men: Don't be discouraged about the wife's gravy. You'll marvel at the change in her cooking if she'll

make it with GRAY MASTER.
Just be sure it's GRAY MASTER.

MAGNIFYING READING GLASSES \$2.98



High-quality, plano-convex lenses in stylish smoke-color frames magnify fine print, make it easier to do close, precision work. Metal hinges for long wear. For folks over 40 without eye disease or astigmatism who simply need magnifying lenses. Order on 30-day money-back trial. If not satisfied, return postpaid for full refund. An outstanding value at \$2.98. Add 25c postage. State age and sex.

NEL-KING PRODUCTS, INC., • Dept. ON-116G
811 Wyandotte • Kansas City, Missouri 64105.

ARE YOU SEARCHING FOR THE KEYS TO SUCCESS?

Do you long for happiness, peace of mind and financial prosperity? Then apply the ageless, proven metaphysical teachings. Learn the techniques in our correspondence courses. Or earn a degree (Ps.D., Ms.D. or D.D.).

Write for details.
COLLEGE OF DIVINE METAPHYSICS,
Dept. FA-66
2811 N. Illinois Street,
Indianapolis, Indiana 46208
Chartered by the
State of Indiana in 1928

WHY DO SO MANY
DOCTORS AND DRUGGISTS
RECOMMEND

B O R O L E U M®

RELIEVES

HEAD COLD DISCOMFORT
HAYFEVER - SINUS - BURNS
SUNBURN - CHAPPED HANDS OR LIPS
MUSCLE PAINS AND ACHES

Since 1906, this quality product has brought relief to thousands. Get Boroleum today at your druggist. May be safely used on all parts of the body.

Contains Menthol, Camphor, Eucalyptol, Methyl Salicylate, Boric Acid and Petrolatum.

TIME TESTED AND MEDICALLY APPROVED INGREDIENTS

Guaranteed & Prepared
only by

SINCLAIR PHARMACAL CO., Inc.

FISHERS ISLAND, NEW YORK

If your druggist is out of stock, send \$1.00 for a tube

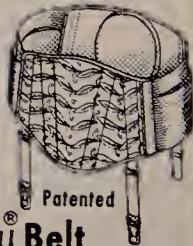
**NOW—PERSONAL ASTROLOGY,
JUST FOR YOU!**

Mary Neal Promises: "NOT ONE WORD IS WRITTEN IN ADVANCE!" She asks, "How many times have you yearned to have someone appreciate you for what you are? How often have your PERSONAL needs for help been 'glossed over' in printed material for many, many others?"

Now YOU can have a PERSONAL DISCUSSION—astrological guidance usually available only to the famed or wealthy! Warm, wise, easily-read, a DISCUSSION is written just for you! Nothing is prepared or assembled. See what regular clients say: "Amazed at the 100% accuracy!" (A.K., Brooklyn)* "So pleased and happy. . . ! I expect to take advantage of your services for some time to come." (M.M., Ala.)* "It cheered me up when I felt so depressed" (M.B., Nassau)* "Both encouraging and instructive" (V.L., St. Louis)* Find YOUR FULFILLMENT, through self-discovery. Mary requires: your date, place of birth (plus hour if known) and marital status. Send \$4.00 today for each PERSONAL DISCUSSION. Or, also send birth facts of anyone in whom you have interest with \$7 for priceless joint guidance! Learn your opportunities for new security, affection, understanding. Write now to MARY NEAL, Box 26039, Dept. OFA, Lawrence, Ind., 46226.

**Ladies: SLIM your appearance
...relieve your BACKSTRAIN**

with New,
Non-Slip

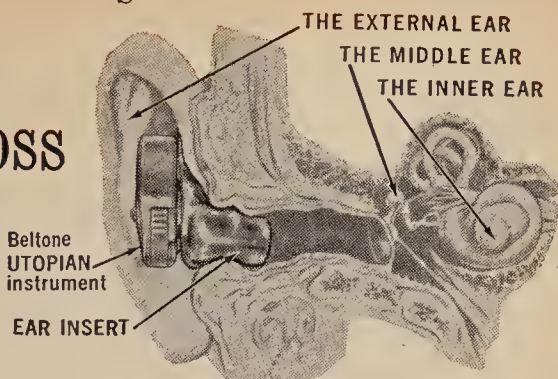


Princess
Beauty Belt® Patented

Strictly for the ladies! New Princess Beauty Belt relieves strain on tired back muscles—buoys you up firmly yet gently—gives you that welcome "rested" feeling that lets you work or play without nagging, energy-robbing discomfort. Appearance inches slimmer without that heavy "corseted" look. Delicately feminine in style. Weighs just 4 ounces—hugs your hips like the skin itself. Adjusts in seconds. Foam rubber back pad for extra-gentle support. Only \$4.98 postpaid hip measure 28 thru 44. Larger sizes, \$1.00 extra. Send hip and waist measure. Removable long garter attachments available—69c for set of 4. Money-back guarantee if returned within 30 days postpaid.

PIPER BRACE CO. Dept. ON-116L
811 Wyandotte St., Kansas City 5, Mo.

Does
HEARING LOSS
rob you of
Togetherness
with Family
and
Friends?



Discover how you may now hear clearly whenever you want to, with this amazing new electronic capsule. Look at the diagram above. See how naturally the Beltone capsule fits in the ear. It slips in and out of the ear as easily as snapping your fingers! NO cords, NO wires, NO plastic tubes. Tiny as a thimble, weighs $\frac{1}{3}$ of an ounce. Yet amplifies sound 22 times. The Beltone Utopian provides higher fidelity hearing at natural ear-level.

It may end your fears that you'll miss out on what folks say. Discover how it may help you stay actively happy in family, social, church and community life. Write today for descriptive FREE book, sent in plain wrapper. Address: Dept. 4-860, Beltone Electronics Corporation, 4201 W. Victoria St., Chicago 46, Ill.

TEAR OUT
THIS AD!

LOW COST
RUPTURE
APPLIANCE

Guaranteed

**TO BRING
HEAVENLY COMFORT
and SECURITY or it
Costs You Nothing!**

Rejoice, Ye Ruptured! This patented Brooks Air Cushion Appliance—for most forms of reducible rupture—now is positively guaranteed to bring you heavenly comfort and security, day and night, at work or play—or it costs you nothing! Light. No springs or hard pads. Low cost! Buy NO rupture device till you get our free facts. Write!
BROOKS CO., 45 STATE ST., MARSHALL MICH.



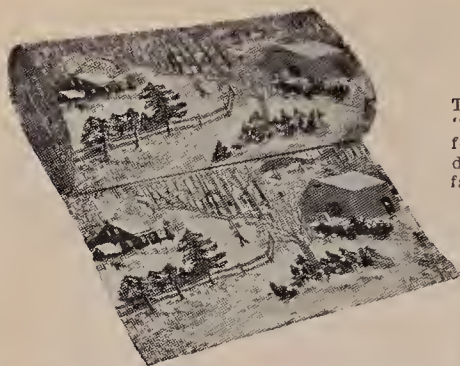
**Garlic Proves
Real Relief for
Nervous Stomach**

Gas pain, "queasy" stomach, belching, bloating, and heaviness after meals are often caused by Nervous Stomach not acidity. In that case be wise and use clinically tested and proved ALLIMIN Garlic Tablets with their four-way relief: (1) Reduces the movement and tension of the stomach, and relaxes the muscular rings that close the stomach entrance and exit; (2) Expels gas from stomach and intestines and diminishes gas pain; (3) Causes a sense of well-being and comfort in the gullet (esophagus); (4) Promptly relieves any feeling of fullness or distension after meals. Flavor is modified with dehydrated parsley, containing chlorophyll.

ALLIMIN has brought Nervous Stomach relief to people of all ages. Ask your druggist for ALLIMIN Garlic Tablets in the familiar blue and red package . . . over $\frac{1}{2}$ billion sold to date. Try them for one week. If you are not completely satisfied just return empty carton to the distributor and your purchase price will be refunded. Available in 4 sizes. Don't suffer. Get ALLIMIN today.

ALLIMIN Garlic Tablets

BLISS NATIVE HERBS in Tablet form, contain 9 botanical herbs gathered from various parts of the Earth for your Health and Benefit. Taken for Disorders of the Digestive System such as lack of Appetite, Constipation, Irregularity, and Headache due thereto. As a Stomachic they have satisfied our many users Since 1888.
65 Tablets \$1.00 At your Druggist. 200 Tablets \$2.00
Montreal, Canada Alonzo O. Bliss Medical Co. Washington, D.C.



GRANDMA MOSES Yard Goods

For draperies, pillows, tablecloths . . . suitable for framing.

The charm, the nostalgia of Grandma Moses' "New Early Springtime," captured in perfect detail and in full color on heavy, white, drip-dry cotton . . . a machine-washable fabric, colorfast, and Scotchgard-treated.

One Scene (16" x 23") \$1.00 ppd.
 Four Scenes (32" x 48") \$2.50 ppd.
 Three yards or more, per yard \$2.50 ppd.

Free Catalog of Deerskin Gifts

DEERSKIN TRADING POST

Rt. 1 at 114FA, Danvers, Mass. 01923
 Add Zip Number to Your Address



THE SECRET OF THE AGES

MEDICINAL HERBAL TEAS AND TABLETS. HERBS FROM ALL OVER THE WORLD!

WRITE FOR OUR FREE 16 PAGE ILLUSTRATED COLOR CATALOG

PUREGRADE HEALTH PRODUCTS 25 SCHOOL ST., QUINCY, MASS.



OCCULT!

STUDY MYSTIC ARTS?

Get our large, valuable illustrated FREE Occult & Spiritual Catalog! Tells of Prayers, strange Occult & Dream Books, Pentagrams, Crystal Balls, Parchment, exotic incenses, Candles, legendary mysterious Oils, Perfumes, Powders, Roots, Herbs, Lodestones, curious Rings, Charms, Gem Stones, "Fortune-Telling" Cards, Ouija Boards, Planchettes, Astrology, Occult Jewelry & remarkable Spiritual Curios. Send for this important big FREE Catalog— you need it! Copyright '62—



Studio G16, TIMES PLAZA STA. Box 224, BROOKLYN, N.Y. 11217

113 STAMPS Including MONACO 10¢

Exciting collection includes Grace Kelly, 1912 Auto, Air Races, many others. Total —113 different, plus Midget Encyclopedia of Stamp Collecting—only 10¢—with Bargain Approvals you examine free. Buy what you want, return balance within 10 days. Ask for Lot TS-1



ZENITH, 81 Willoughby St., B'klyn 1, N.Y.

NEW WAY TO RAISE \$50.00 AND MORE! IT'S EASY, FAST!

For Your Church or Group

Your group can raise all the money it needs, easily, quickly without le cost to you! I'll send your group a supply of my assorted luxurious Prayer Grace Napkins in advance. Exquisite designs and prayer texts set a graceful, thankful mood at meals. Have 10 members each sell 20 packages; keep \$50

for your treasury, send me balance of proceeds. Never Spend 1c of Your Own Money. Take up to 60 days; we give credit on napkins.

FREE You risk nothing to try my amazing tested plan, used by over 100,000 groups. Rush name, address now for details of my Plan which brings you fast cash for your group, sent FREE, no obligation. Write now to:

Anna Wade, Dept. 908CA, Lynchburg, Va.

Free Samples
 Rush name & address now!

640 ACRES OF WILDLIFE-\$20

\$20 plus \$6 taxes yearly gets you your own 640 acre wildlife hunting paradise near Canadian border. One of the last accessible big game refuges in North America. These are abandoned timber leaselands (now reforested), many readily accessible by original logging roads. Thousands of exclusive lakeland campsites. Heavy second growth timber teems with every imaginable kind of wildlife. Including bear, moose, elk, caribou, timber wolves, lynx, wolverines, deer, geese, ducks, muskies, huge northern pike, walleyes, pickerel, rainbow and steelhead trout, muskellunge. One of these secluded hunting paradises can be yours to enjoy for the rest of your life. No other hunting lodge may be erected within at least one mile of yours. Many are over 20 to 50 miles away. Send \$1 (refundable) for maps, pictures, Gov't regulations, official application blank. Director, O.S.C.A., Room 700, 56 Church Street, Toronto 1, Canada. Add 50¢ for rush air mail. Enclosed is one dollar (refundable)

Name.....
 Address.....State.....

STOP STOOPING!

with amazing, new

Shoulder Brace

Corrects posture instantly, comfortably. Scientific design provides even, distributed support for sagging shoulders. Improves appearance, gives you a wonderful new feeling of confidence. Slips on in seconds. No fitting. Made of highest quality ventilated-for-comfort 3-ply cushioned material. Arm bands softly padded for maximum comfort. Lightweight, cool. FOR MEN AND WOMEN. Can't be detected under light clothing. Give measurement around chest. Only \$4.95.



this ... to this in 20 seconds



"Patented" Sent postpaid except on COD's. Money-back guarantee if returned postpaid in 30 days.

Piper Brace Co. Dept. ON-116H
811 Wyandotte Kansas City 5, Mo.

ARTHRITIC & RHEUMATIC PAIN

Do your joints and muscles ache day and night? Do you groan with such miserable pain in your back, arms, hands or legs that it is hard to work, bend or stoop, or even to get one's proper rest? Then here is GOOD NEWS. Thousands of sufferers who, like you, longed for relief from their pain, use Templeton's T-R-C's. Every year people like you now use millions of T-R-C's. You, too, can have this same relief by using T-R-C's 3 or 4 times a day. Get a \$1.50 box today. Ask your druggist.

SAMPLE OFFER

To introduce T-R-C's to readers of this Almanac we offer a sample box. This 10¢ offer available only in U.S.A. now for generous trial to Templetons Inc., Dept. T, 358 Fayette Avenue, Buffalo 23, N.Y.

BRONCHIAL ASTHMA

Do you gasp for breath, wheeze and cough night and day? Are you off work by day, sleepless by night, struggling for breath? Then here's GOOD NEWS. Thousands enjoy longed-for relief with Templeton's RAZ-MAH Capsules.

BARGAIN: To get longed-for relief from wheezing, gasping and coughing; to help you breathe more easily and comfortably; we offer you a full \$1.50 size box of RAZ-MAH Capsules for only \$1. Only one such offer to a family. Send \$1 along with your druggist's name and address to Templetons Inc., Dept. R, 358 Fayette Avenue, Buffalo 23, N.Y. Offer available only in U.S.A.

Got PSORIASIS?

Try TROPISAN

AMAZING MEDICAL TABLETS

- Faster and easier to use
 - Simple, safe tablet
 - No greasy creams
 - No oils to stain
- NO BOTHER, NO BANDAGES.**
NO MESS to mar work or play.

First purchase of Tropisan guaranteed to satisfy you as it has thousands of grateful users throughout U.S.A. or money back. Approx. 30 day supply of 180 tablets only \$6.00 a bottle.

... AT BETTER DRUG STORES*
* If Tropisan is unavailable locally, send \$1.00 for trial supply vial of Tropisan with name & address, also nearest drug store to Dept. AL-1:

KAYBROUGH, INC.

1920 W. Sunnyside, Chicago, Ill. 60640



Learn The Secrets of the Stars

Madame Zeus

Of London, England

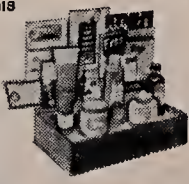
Has pleased and amazed thousands by her ability to read the stars and reveal unknown things to people through Astrology. If you are not afraid of what you might read send \$1 for a

horoscope reading. Send name, address and birth-date carefully printed to: Madame Zeus, P. O. Box 297, Dept. B2, Oakland 4, Calif.

RELIABLE MEN AND WOMEN!.. TEAR OUT AND MAIL THIS AD TO GET BIG CARTON FREE! OF HOME PRODUCTS FREE!

Send No Money!

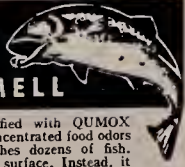
Just tear out and mail this ad with your name and address for big Assortment of full-size, famous Blair Quality Products—lovely Cosmetics, Flavoring, etc. (\$4.18 retail value)—free to reliable men and women. Show friends, earn good money full or spare time taking orders



for bargains in over 200 home needs. No experience, no money needed to start. I'll help arrange credit. Clip this ad, mail with name, address to get big Ass't and Money-Making Plans, FREE.

BLAIR, Dept. 348CA, Lynchburg, Virginia

LURE FISH BY SMELL



NEW GETZEM is fortified with QUMOX hormone attractant and concentrated food odors fish love. One tube catches dozens of fish. Not an oil that stays on surface. Instead, it disperses, penetrates deep into water. Legal in every state. Only \$1.25 per tube (3 for \$2.95). Six flavors. Indicate choice: Trout, Cat, Carp. Other fresh water. Salmon. Other salt water. 30-day money-back guarantee. Postpaid except C.O.D.'s.

NORKIN LABORATORIES, Dept. ON-116N
809 Wyandotte, Kansas City, Mo.

CLASSIFIED ADVERTISING

BUSINESS OPPORTUNITIES

MAKE MONEY WRITING short paragraphs: No tedious study! I tell you what to write, where and how to sell; and supply list of editors buying from beginners. Many small checks add up quickly. Write to sell, right away. Send for free facts. Benson-Barrett, Dept. C-184-L, 6216 N. Clark, Chicago, Ill.

SAWDUST 112 USES. Tin cans 63, Newspapers 27, Rubber 67, Glass 20, Rags 35. Instructions \$1.00 each. Any three \$2.00. All six \$3.00. Charles Company, 42-TFF, Norwood, Ohio 45212.

SELL COLLECTION SERVICE. We put you in business, earning \$100 to \$300 weekly. No experience necessary. Write Merchants Protective Agency, Dept. FA, 1015 Walnut, Kansas City, Missouri.

EARN MONEY RAISING earthworms! Backyard, garage! Free raising instructions, market facts! Included free: "How to Grow Gorgeous Plants with Domesticated Earthworms." Write: Oakhaven 102, Cedar Hill, Texas 75104.

WANTED WRITERS! SHORT stories, articles, books, plays, poetry. Will help place, sell your work. Write today, free particulars! Literary Agent Mead, Dept. 41A, 915 Broadway, New York, N. Y. 10010.

OF INTEREST TO WOMEN

WEAVERS—WRITE FOR money saving low prices—weaving materials, supplies, looms, parts, yarns. OR Rug Company, Dept. N563, Lima, Ohio 45802.

HOMEWORK PAYS! 35 companies begging for sparetime homeworkers. Complete details, instructions \$1.00. Rutward, 4092 Bryant, Columbia Station, Ohio 44028.

WALLPAPER SALE — FINAL clearance 1965 patterns. Write for your Free Catalog at once. Sensational savings. We pay postage. Burlington Trading Post, 1800 Burlington, North Kansas City, Mo.

FOR SALE

CHAIR CANE. All Long Selected Fine fine \$4.25; fine \$4.50; Medium \$5.00; Common \$5.50 per hank. Plastic same. Fine open cane webbing \$1.75 square foot, Flat and Flat Oval reeds \$2.25 pound. Imitation Rush \$3.75 coil. Postpaid. Instructions. Go-Cart Shop, Box 52, New Bedford, Mass.

LIKE SWEET ONIONS? New Blue Ribbon Assortment 600 sweet onion plants with free planting guide \$3.00 postpaid fresh from Texas Onion Plant Co. "Home of the sweet onion," Farmersville, Texas.

U. S. GOVERNMENT SURPLUS

JEEPS \$178, Airplanes \$159, Boats \$7.88, Generators \$2.68, Typewriters \$8.79; typical Government Surplus sale prices. Buy 10,001 items wholesale direct. Full details and procedure only \$1.00. Surplus Catalogue included FREE. Surplus, Box 8-FA6, Thomasville, Penna. 17364.

INVENTIONS

INVENTORS—DO YOU want to sell or license your invention on cash or royalty basis? Write Kessler Corporation, C-42, Fremont, Ohio 43420.

PERSONAL

BORROW \$100 to \$1000 by Mail. Quick, Easy, Private. No Co-Signers. Repay in 30 small monthly payments. For the amount you want write today to Dial Finance Co. 410 Kilpatrick Bldg., Dept. 1-326, Omaha, Neb. 68102.

EDUCATIONAL OPPORTUNITIES

PROPHET ELIJAH COMING Before Christ. Wonderful Positive Bible Evidence Given. Free Book. Y. Megiddo Mission, Rochester, N. Y. 14619.

MISCELLANEOUS

STRANGE, UNIQUE ITEMS. 1000 Strange Wonders of the World. Illustrated Catalog 10c. Black Magic Shop, Dept. 22, Box 5664, Minneapolis, Minn. 55417.

WE SHALL BE pleased to send you a free catalog of our amateur winemaking supplies and apparatus. New World Wine Supply, P. O. Box 2906, St. Louis, Mo. 63130.

CASH IMMEDIATELY FOR old gold, jewelry, gold teeth, watches, diamonds, silverware, spectacles. Free information. Rose Industries, 29 FA, East Madison, Chicago, Ill. 60602.

ARTIFICIAL EYES (Human). Expert selection sent. Free booklet, color chart. Established 1906. Denver Optic, 1225 University Bldg., Denver, Col. 80202.

MOON SIGN BOOK 1966. Complete instructions and times for planting, harvesting, fishing, setting eggs, breeding, household, farm, and business matters. Weather, news, and personal forecasts. 288 pages, plus astrological calendar—\$2.00. Chester-Kent, Box 3383-FA, St. Paul, Minn. 55101.

WARD O-F-F EVIL SPIRITS! Instructions \$2.00. Many unusual religious gifts! 25¢ brings illustrated price list! Acumen, Box 115-D, Hull, Mass. 02045.

BLESSED RELIEF

from the pains of Arthritis, Bursitis, Neuritis, Neuralgia, Rheumatism, Aching joints, Sore muscles.



**BETTER THAN A HOT WATER BOTTLE
GIVES MORE HEAT THAT LASTS LONGER.**

Lightningpak is the safe, modern heat source (no wires, no burning fluid). Fast, comforting heat . . . when and where you want it! Just add water to Lightningpak and you've got soothing, long-lasting, penetrating heat. Lightningpak conforms to your body's contours . . . actually molds around painful joints. Goes wherever you go, indoors or out. Ideal for travel. Can be used for as many as eight cycles of 8-10 hours each.

(The same proven formula sold to the U.S. Government in over a million packs.) Send \$3.95, plus 30c for postage and handling or write for descriptive literature. (Refills, when needed, 2 for \$2.95 plus 30c postage.) MAIL TO:

THE EDBERT COMPANY
Box #7, Newton, Mass. 02195

NOSTRADAMUS SAW THE FUTURE

"COMPLETE
PHOPHECIES OF
NOSTRADAMUS"—
CONTAINS EVERY
STARTLING
PREDICTION TO
THE YEAR 3797 A.D.



LOOK IN THE FUTURE

This is the only existing volume that can give you every prophecy by NOSTRADAMUS to the year 3797 A.D. Past events have come true with uncanny accuracy — NOW SEE how many of the 1000 prophecies in this great book may affect you!

This hard cover 350 page giant volume includes ALL of the original Old French Text, and exact literal English Translation ingeniously interpreted and explained by Henry C. Roberts.

GREAT EVENTS from NOSTRADAMUS—
Predictions include: **ATOMIC WAR-FARE!** Date of Next World War! Time of **PEACE ON EARTH.** How do you fit into this chain of events? Read every amazing prediction in the "Complete Prophecies of Nostradamus".

\$5.95 ppd. Send check or m.o. to

EMBASSY SALES, Dept. F
Box 67, E. Elmhurst, N.Y. 11369



See More Clearly

Read Fine Print

Slip-On Magnifiers—\$2.98

Having trouble seeing fine print and close work? Slip these magnifiers on your prescription glasses and SEE CLEARER INSTANTLY! Powerful 2½ diopter lenses. Fits all glasses. Low \$2.98 price saves you 25%. State age. If not satisfied, return post-paid in 30 days for refund. Add 25c postage. **NEL-KING Prod., Dept. ON-1165 811 Wyandotte, Kansas City 5, Mo.**

AGE 50 to 80?

Discover How To Apply
For Old Line Legal
Reserve Life Policy!

If you're between 50 and 80, you may still apply for the same kind of life insurance available when you were younger. You handle entirely by mail. No one will call on you. No obligation.

Write for more information today. Just tear out this ad and mail it with your name, address and year of birth to Old American Insurance Co., 4900 Oak, Dept. L1195C, Kansas City, Mo. 64141.



WHY WORRY?

THRILLING ZODIAC READING—
Health, Prospects, Events, Money outlook, Love, Friendship, etc. Send 15c (coin or stamps) for your true, amazing Forecast. State birthdate. **Studio F.A.—NEWTON VALE, 160 Bay St., Toronto, Canada.**

They're **HERE!**... the picturesque days
of **YESTERYEAR** in a fabulous new magazine:

"The Good Old Days"

Bringing back ... "Remember When"

DEAR FRIEND:

May I invite you to take a nostalgic trip with me every month into the years — some not so long ago, others a bit longer — that we all cherish as "The Good Old Days."

See and read about the delightful customs, patterns, pictures, illustrations, songs, poems, entertainment, movies, phono records, recipes, homemakers hints, cartoons, photos, advertisements, fashions, books, magazines, **PLUS A HUNDRED AND ONE OTHER** never-to-be-forgotten events and mementos from an earlier, more leisurely era.

You can do this with me Every Month through the pages of a brand new monthly magazine called "The Good Old Days!"

The price... just \$1.00 for 6 big issues... 1 each month for 6 months. Hurry! Take advantage of this offer.

Like old songs and poems? You'll find a very big selection here every month! Scores and scores of old time favorites. Brand New selections in every issue. More than in any other magazine.

You'll **LOVE** to look back into the 1950's, 1940's, 1930's, 1920's, 1910's, 1900's (and sometimes even beyond!) What years were **YOUR** good old days? You'll find them here in this exciting new magazine! You'll find an abundance of nostalgic and haunting memories of whatever era interests you in each issue. Just \$1.00 for the next 6 big issues... \$2.00 for the next 12 months.

Send in your \$1.00 or \$2.00 **NOW** and receive your first issue. **YOU CAN HAVE YOUR MONEY BACK**, if you don't find the first issue of this exciting magazine all we've promised — **AND MORE!**

Your Editor, "THE GOOD OLD DAYS"

Member Lynn Chamber of Commerce

.....
THE GOOD OLD DAYS — P. O. BOX 591-S — LYNN, MASS.

Here's My 1.00 Put me down for the next 6 issues.

2.00 Put me down for the next 12 issues.

Name

Address

City State Zip No.



Songs



Patterns



Old Ads



Old Pics



Old Movie Stills



Poems of the Past

SHOULD YOU GO FIRST
and I'll be over
I'll find in Memory
Garden (?)

SAFE, SURE HEALTH AID

IN 2 SHAKES

get results with
ARM & HAMMER
Soda Bicarbonate



NIGHT AND MORNING

shake a little SODA into moistened palm to brush teeth clean and bright. SODA is recommended as an effective dentifrice in educational literature of the American Dental Association. SODA also effectively cleans and sweetens dentures.

SWEETEN BREATH

with SODA mouthwash or gargle—teaspoon to glass of water. SODA helps end telltale food and beverage odors.

RELIEVE DISTRESS

of acid indigestion swiftly and safely with SODA— $\frac{1}{2}$ teaspoon in $\frac{1}{2}$ glass of water.

RELIEVE DISTRESS

of insect bites and stings, sunburn and other burns with SODA—moistened to paste. Apply directly and cover with damp cloth.

BEAT THE HEAT

with fresh-up SODA baths— $\frac{1}{2}$ lb. in tub of lukewarm water. Healthful, relaxing way to relieve itching.



FREE:

Illustrated booklet, "How to Live Better and Save Money." Send name and address to CHURCH & DWIGHT CO., INC., Dept. FA-75, Box 2266, Grand Central Sta., N.Y. 17, N.Y.

© 1962, CHURCH & DWIGHT CO., INC.

182088

Ride... Explore...

STEAM TRAINS of YESTERYEAR

Steamtown U.S.A.



Several years ago, the steam locomotive disappeared from the American scene. Today you can relive the era of the iron horse. You may visit Steamtown U.S.A. Here you will go on a 26 mile live steam excursion through New Hampshire and Vermont countryside. You will explore the largest collection of iron horses in the country. Your palate will find satisfaction on an authentic dining car or perhaps at the old-fashioned chicken barbecue. An adventure at Steamtown U.S.A. is a worthwhile part of any vacation.



The Edaville Railroad which is just ten miles from Plymouth Rock preserves the extinct Maine two-foot gauge railroads. An excursion through a cranberry plantation awaits you there. Edaville also features a museum of Americana. You can "double head" your next vacation with Steamtown U.S.A. and the Edaville Railroad.

FREE! "I Collect Old Steam Engines", The Story of F. Nelson Blount, the founder of Steamtown U.S.A. This article is reprinted from Yankee Magazine and tells of a remarkable man and his role of preserving the iron horse. Plus, you will receive the 1966 Steamtown U.S.A. and Edaville Railroad brochures as soon as they are printed.

STEAMTOWN U.S.A. Dept. OFA, Bellows Falls, Vermont

Please send **FREE**
 "I Collect Old
 Steam Engines."
 Also, when avail-
 able: The 1966
 Steamtown U.S.A.
 and Edaville Rail-
 road Brochures.

NAME.....
 ADDRESS.....
 CITY..... ZIP CODE.....

TRENT UNIVERSITY



0 1164 0215150 4

AY 81 .F306 1966
Old farmer's almanac

913069

