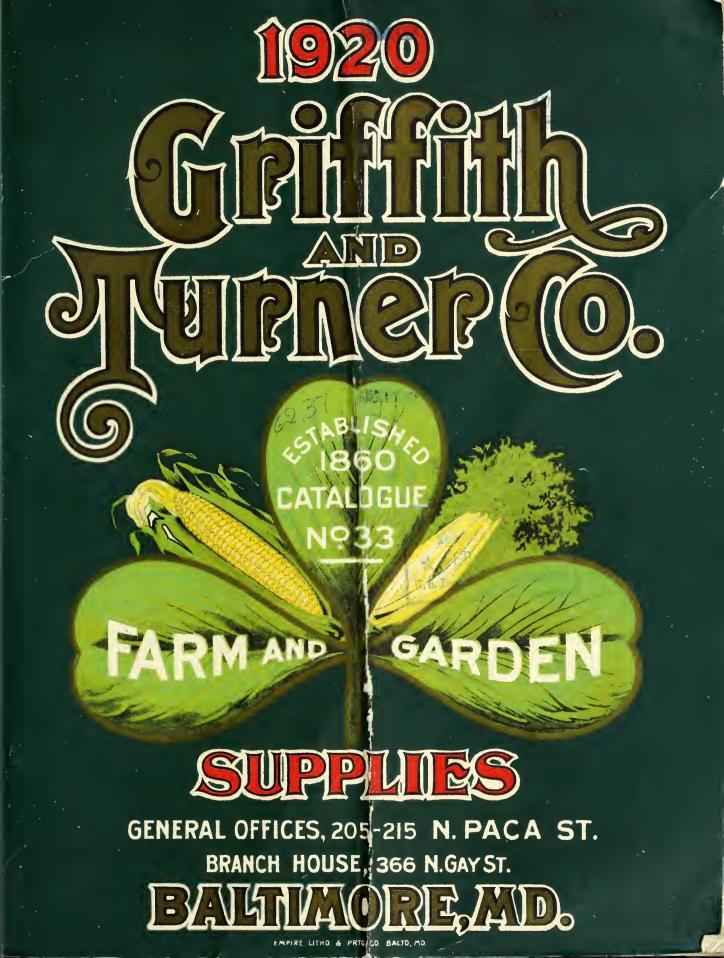
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Do not assume content reflects current scientific knowledge, policies, or practices.



Prospective Customers who are not rated in the Commercial agencies will save time in having their goods shipped by accompany-ing their Orders either with the Cash or satisfactory references. Baltimore references preferred. NOTICE.—We make a specialty of quoting on complete outfits SEND FOR PRICES. FILLING ORDERS.—Every order is filed and forwarded as promptly as possible, but if not duly received, please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address. PACHING AND SHIPPING.—We make no charge for boxes or packing of retail orders, and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags as follows: Peck and half bushel, cents each; 1 bushel, cents each; 2 bushels. steamboat free of charge. **bushels**

hels, cents each. HOW TO REMIT.bushels, cents each. HOW TO REMIT.—Remittances should be made by draft, Express Money Order, P. O. Money Order or Registered Letter, We deliver by PARCEL POST FREE to any Postoffice in the United States all cash orders for Flower and Garden Seeds at Catalog prices, except Peas, Beans, Corn and Field Seeds. No seed delivered free unless order is accompanied with the cash. For postage on Peas, Beans, Corn, Field Seeds and All Merchandise, consult tab on opposite page. ON EVERY ORDER be sure to SIGN YOUR NAME and give your address PLAINLY, as we frequently receive orders lacking either or both; also give full shipping instructions. State if by freight or express and give route. This saves delay. PRICES TO MARKET GARDENERS.—Market gardeners, and all purchasers of Seeds in large quantitles, should submit us a list of their wants and we will name them special prices.

TIME FOR SOWING IN THE OPEN GROUND.

THESE DIRECTIONS apply to the vicinity of Baltimore and Philadelphia. South of this they should be sown earlier, and North later.

BEANS .- From 1st of May until August.

BEETS .- Soon as ground can be worked in spring.

CABBAGE .- For early use, sow in hot bed in February and transplant in April to open ground; for late use, sow in May or June.

CAULIFLOWER.—Sow about the same time as Cabbage. For late crop sow in June, and they will head up in cool weather, and escape injury from the heat.

CARROT.-For early, sow from 1st of April to middle of May, and for late crop in June or July.

CELERY .- Sow as soon as the ground is open in spring, and transplant in July.

CUCUMBER .- Sow about 1st of May for early, and for pickling, in July.

LETTUCE .-- Sow as soon as ground can be worked in spring, and at intervals as desired.

MELONS .- Sow in May and June.

ONIONS .- Sow early as possible in spring.

PARSNIP .--- Soon as ground can be worked.

PEAS .- Sow in March, and at intervals through the season, as desired.

PUMPKIN .- Plant in May or June.

RADISH .- Soon as ground is ready, and all through the season, at intervals,

SQUASH .- Soon as ground is warm.

TOMATO .- Sow in hot bed in March, and transplant about middle of May.

TURNIP .- For early use, in April; for main crop, July and August.

WEIGHT OF AGRICULTURAL SEEDS,

PER BUSHEL, AND QUANTITY

USUALLY SOWN PER ACRE.

W	eight	per	\mathbf{P}	oui	nds
	Bush	el.	pe	r A	.cre.
14	lbs.	Awnless Brome35	to	40	lbs.
60	**	Alsike, alone		6	
60	44	Alfalfa or Lucerne		20	44
48	46	Barley, broadcast			bus.
		Broom Corn, in hills. 6	to	8	qts.
48	6.6	Buckwheat, broadcast.			
21	**	Crested Dog's Tail		$\frac{1}{25}$	
20	44	Creeping Bent		50	**
60	66	Crimson Clover15	to -	20	66
56	44	Corn, for soiling 1	to	2	bus.
24	64	English Rye or Per-		=0	lha
00	44	ennial Rye	4.0		lbs.
20	44	Evergreen Lawn 3	το		bus.
56	44	Flax, for seed		$\frac{1}{3}$	64
ֈ	44	Flax, for fiber 2	τo		
56	44	Field Corn, In hllls		4	gts.
50	44	German Millet		50	lbs.
48	44	Hungarian Millet		48	44
44	**	Hemp		22	**
20	44	Italian Rye		50	"
14	44	Kentucky Blue		38	"
22		Meadow Fescue Meadow Foxtail		50	44
7	**			30	44
14		Orchard Grass		42	
32		Oats, broadcast2 t Red Top, chaff40	0 2	1/2	bus.
10		Red Top, chaff40	to	50	lbs.
14	**	Red Top, unhulled30	to	40	**
32		Red Top, fancy 6	to	8	64 64
60		Red Clover		15	
56		Rye, broadcast			bus.
12		Sheep Fescue		30	lbs.
48	44	Sorghum, drills		-4	qts.
	66	Sorghum, broadcast		8	-44
10	44	Tall Meadow Oat			lbs.
45	44	Timothy, alone			bus.
	4.6	" with other grasses		8	lbs.
	44	Together for an acre			
	44	Red Clover		8	6.
	64	Timothy		10	44
•••	**	Red Top		14	66

WEIGHT OF AGRICULTURAL SEEDS, QUANTITY, ETC.-Continued.

317	eight		Pounds
vv			
	Bush		per Acre.
	lbs.	Teosinte, in hills 1	to 3 lbs.
60		Vetches, broadcast	1 bus.
14		Wood Meadow	30 lbs.
60	46	White Clover, alone	6"
	**	White Clover, with	
		other grasses	3"
60	66	Wheat, broadcast11/2	to 2 bus.
• •	46	Wheat, in drills11/2	

VEGETABLE SEED TABLE

THE QUANTITY OF SEED USUALLY SOWN TO AN ACRE.

Asparagus		5	lbs.
Asparagus Beans, dwarf in drills	to	8/4	bus.
Beans, pole, in hills	0	10	ats.
Beet, in drills 4	to	6	Ibs.
Cabhage in heds to transplant		1/4	lh
Connot in duille	10	- 9	lba
Celery, to transplant		14	lbs.
Corn, in hills (sugar)		4	qts.
Kale 4 t	to		
Melon, musk	ťo	2	- 44
Melon, water 2 t	0	3	44
Mustard, broadcast	0	16	44
Mangelwurzel 4 t	ň	ĨŘ	44
Onlons, in drills to make large		Ŭ	
onions 6 t	0	8	44
Onion Seeds, for small sets40 t	0		44
Parsnips, in drills 4 t	0	Ř	44
Peas, early, in drllls	ັ1	14	hus.
Peas, Marrowfat, in drills	ī	1/	44
Peas, broadcast 2 t	to	'3	44
Potato, cut tubers in drills 8 t	0	11	54
Radish, in drills 6	to	8	lbs.
Radish, broadcast		1Ŭ	44
Salsify, in drills 6 (h		45
Spinach, in drills	0	20	64
Squash, bush varieties, in hills 4 t	0	-ĕ	64
Squash, running varieties, lu		Ŭ	
hills 3 t	0	4	44
Turnip, in drills		î	lb.
Turnip, broadcast		2	
Tomato, to transplant		1/4	lb.
menner, in the product of the second s		18	

TO COUNTRY MERCHANTS.

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers. Onr seeds are select and tested, and give satisfaction wherever

used. Beans, Peas, Corn, etc., in bulk, at lowest wholesale rates.

Write for special quotations in quantities. Should you have placed your order for small papers for this ear, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

HINTS ON TRANSPLANTING TREES.

The proper season for transplanting fruit trees is during the

The proper season for transplanting trut trees is during the months of February, March and April in the spring, and October, November and December in the autumn. PROPER AGE AND SIZE OF TREES FOR TRANSPLANTING. Experience has taught observing planters that a small, young tree, set at the same time, will in a few years overtake and pass a large one, and continue more vigorous and productive. Large trees are necessarily or unavoidably more injured in digging than small ones The latter can be moved with their system or roots almost entire.

NUMBER OF TREES AND PLANTS TO AN ACRE.

4 ft. each way2722 15 ft. each way193 35 ft. each 5 ft. each way1742 18 ft. each way194 40 ft. each 6 ft. each way1210 20 ft. each way108 45 ft. each 8 ft. each way1680 25 ft. each way108 50 ft. each 9 ft. each way485 30 ft. each way485 50 ft. each	ch way40 ch way35 ch way27 ch way21 ch way17
DISTANCE FOR PLANTING.	
Std. Apples	t each way.
Std. Pear and large-growing Cherry 20 "	44 44
Duke and Morello Cherry 20 "	66 66
Std. Plum, Apricot and Nectarine	46 #6
	66 66
Peach 20 " Quince 12 "	44 66
Dwarf Pear 10 "	44 44

Currant, Gooseberry, Raspberry and Black-

berry..... 4 to 5 Grapes 6 to 10

QUANTITY OF SEEDS REQUIRED FOR A GIVEN NUMBER OF PLANTS, NUMBER OF HILLS, OR LENGTH OF DRILLS.

** 44 ...

Asparagus1 oz. to 50 ft. drlll
Beet1 oz. to 50 ft. drill
Celery1 oz. to 100 ft. drill
Carrot1 oz. to 100 ft. drill
Endive1 oz. to 150 ft. drill
Egg Plant 1 oz. to 300 ft. drill
Lettuce 1 oz. to 150 ft. drill
Okra
Onion1 oz. to 100 ft. drlll
Onion Sets, small1 qt. to 100 ft. drill
Parsley 1 oz. to 150 ft. drlll
Parsnip
Radish
Salsify 1 oz. to 70 ft. drill
Spinach
Turnip
Peas
Dwarf Beans1 qt. to 100 ft. drill
Leek
Pole Beans1 ot. to 150 hills
Corn
Cucumber1 oz. to 50 hills
Watermelon1 oz. to 30 hills
Muskmelon 1 oz. to 60 hills
Pumpkin1 oz. to 40 hills
Early Squash1 oz. to 50 hills
Marrow Squash1 oz. to 16 hills
Cabbage, 1 oz. seed will product 2000 plants
Caulifi'r. 1 oz. seed will produce 2000 plants
Celery, 1 oz. seed will produce 3000 plants
Egg Plant, 1 oz. seed will produce 1000 plants
Lettuce, 1 oz. seed will produce 3000 plants
Pepper, 1 oz. seed will produce 1000 plants
Tomato, 1 oz. seed will produce 1500 plants
Transfer a sur part in broader to be branch

GRIFFITH & TURNER CO. Branch House, 366 N. GAY St. BALTIMORE, MD., U. S. A.

HOW TO SEND MONEY: By Mail, Express, P. O. Money Order, Registered Letter or Bank Draft. For Small amounts send Postage Stamps.

We deliver by Parcel Post free to any Post-office in the United States, all cash orders for Flower and Garden Seed at Catalog Price, except Peas, Beans, Corn and Field Seeds. No seed delivered free unless the order is accompanied with the cash. For Peas, Beans, Corn and Field Seeds, add to Catalog Price 6 cents a pint and 8 cents a quart. For each additional quart add at the rate of 2 cents a quart, for distances not over 150 miles from Baltimore. For other seed and merchandise rate consult first page in Catalog.

VERY IMPORTANT. No difference how often you have written us, always give your full address, and write your Name, Post-office, County and State very plainly. We frequently get orders without address or signature.

GRIFFITE & TUENER CO. gives no warranty, we irequently get orders without address or signature. Griffite & TUENER CO. gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If purchaser does not accept goods on these terms, they are at once to be returned. All claims must be made within five (5) days after receipt of goods.

ORDER FLOWER SEEDS BY NUMBERS.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

AMOUNT ENCLOSED

Forward by {State on this line whether wan by Mail, Express or Freight.	ted }	Post-office Order \$
Your Name		Express Money Order
Post-office	Route No	Bank Draft
-		Cash, Notes and Silver
Express or Freight Office }	Date	Postage Stamps (2c. stamps preferred)

QUANTITY

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1920 GARDEN CALENDAR

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Draw a diagram of the garden. Locate the crops which take the most room (corn, potatoes, vines of the cucumber family), then locate the other crops, grouping them as follows: Peas, potatoes, beans, asparagus, rhubarb, herbs; parsnips, turnips, salsify; beets, carrots, onions; cabbage, cauliflower; okra, tomatoes, egg plant, peppers; spinach, Swiss chard, radish, salad plants. Vegetables should be planted in rows. Plan a hardy border. (See September.) Sow Indoors or in Hotbed January 15: Foxglove, pansy, lceland poppy.

Order Seeds. Quantity of Seed for a Family of Eight. Artichoke. Brussels sprouts, carrot, turnip, radish, 1 oz.; onion, spinach, okra, 2 oz.; cauliflower, egg plant, peppers, 2 pkgs.; cucumbers, 25 hills, 1 oz.; squash, 20 hills, 1 oz.; string beans, 2 qts.; lima beans, 1 qt.; peas, 4 qts.; corn, 3 pts. (plantings); lettuce, 1 oz. **Buy Garden Tools:** Wheelbarrow, roller, watering-can, sprayer, spade, fork, wheel hoe, common hoe, weeder, rake, scythe, sickle, trowel.

when to Sow: Early crops between March 15 and May 1. Main crops about May 5. Cover seeds twice or three times their thickness. Distances: Drills from 1 to 2 feet apart; corn, 3 feet; vines of the cucumber family, 4 feet; tomatoes, 3 feet. Sow Out of Doors Between March 15 and April 1: Beets, cabbage, carrots, kohlrabi, lettuce, onions, parsley, parsnips, radish, salsify, spinach, turnips, sweet-peas (height, 3 feet, many colors). Sow Indoors March 1 or in Hotbed: Artichoke, cabbage, endive, egg plant, lettuce, peppers, tomato. Sow Indoors March 1 or in Hotbea: Sweetalyssum, balsam, calendula, coreopsis, nasturtium, petunia, sweet-william, zinnia.

Sow Out of Doors April 15: Beets, cabbages, carrots, Swiss chard, celery, corn salad, garden cress, endive, lettuce, okra, onion, parsley, parsnips, peas, radish, salsify, spinach, sage, thyme, turnip. Sow Out of Doors April 15: Sweet-alyssum, calendula, candytuft, corn-flowers, carnation, forgetme-not, larkspur, marigold, mignonette, Iceland poppy, snapdragon, sweetwilliam, zinnia. Set out roots of dahlias, cannas, gladiolas, elephant ears, tube roses and plants of hardy chrysanthemums.

Sow Out of Doors May 15: Brussels sprouts, cauliflower, beets, beans, cabbage, carrots, corn salad, chicory, cucumbers, endive, tomatoes, lettuce, lima beans, muskmelon, peas, peppers, potatoes, pumpkin, radish, sweet corn, Swiss chard, spinach, squash, sage, watermelon. Sow Out of Doors May 15: China aster, balsam, coreopsis, cosmos, foxglove, morning-glory, nasturtium, petunia, Phlox Drummondii, sunflower. Vegetables and flowers should be transplanted from hotbed to garden about May 10. Flowering shrubs should be pruned immediately after they have blossomed. Fruit trees should be sprayed when the blossoms fall.

trees should be sprayed when the blossoms fall. **Sow Early in June**: Beans, beets, cucumbers, lettuce, peas, radish, sweet corn, Ten-week Stock, pansy. Roses should be grown on a southern exposure. The soil should be a rich loam. Set out ever-blooming roses the middle of April; Hybrid, Perpetual and Hardy Roses the middle of October. Rose bushes should be set out 2 feet apart, sprayed in April and May, and pruned in March. The rose-bed should be well covered the last of November, and uncovered as soon as danger of frost is past. From the numerous varieties on the market, the following roses are selected: Pink Mamam Cochet, American Beauty, My Maryland, Rhea Reid, Killarney, Helen Gould, Ulrich Brunner, Vicks' Caprice, Meteor, Magna Charta, Paul Neyron, La France, Kaiserin Augusta Victoria, Bridesmaid, Baby Rambler (climber), Tausendschon (climber), Dorothy Perkins (climber), Empress of China (climber), Philadelphia (climber), Crimson Rambler (climber).

First Week in July: Beans, carrots, lettuce, radish, sweet corn, turnips. Bordeaux Mixture is excellent for all kinds of blight. Arsenate of Lead will destroy insects that chew. Directions: 2 to 3 pounds to 50 gallons of water. Lemon Oil Co.'s Standard Insecticide will kill plant lice of every description.

August 1, last planting of beans and peas. Buy a High-grade Complete Fertilizer for general use if unable to compound your own fertilizers. Quantity, 500 lbs. to the acre, or 1 oz. to the square yard. Where a rich soli is required, 1250 lbs, to the acre, or 4 oz. to the square yard. In artificial fertilizers there are no weed seeds. General Hints: Bone-Meal is excellent for lawn, garden, orchard; Wood Ashes for lawn (sparingly), garden, orchard; Air-Slacked Lime for heavy, damp soil; Cottonseed Meal for lawn (scatter early in April); Muriate of Potash for apple trees and peach trees (2 to 3 lbs, for a full-grown tree). Bone-Meal and Nitrate of Soda in equal parts for asparagus. In the Flower Garden in the spring a handful of bone-meal may be worked into the soil about a plant with marked results. In midsummer, if flowers are few, rake in some nitrate of soda and a little bone-meal. Liquid Manure is a good fertilizer for roses.

Set Out Bulbs Early in Fall: Phlox (perennial), peonies. Plant springflowering bulbs: Crocus, daffodils, lily of the valley, narcissus, snowdrops, tulips, hyacinths. Spring-flowering bulbs should be planted about 4 inches deep. Plant bulbs of German Iris and Japanese Iris. In the Window Garden: Roman hyacinths, Chinese sacred lilies, narcissus and crocuses can be grown in sand and water.

Some Flowering Shrubs for the Home Garden: Forsythia, hydrangea paniculata grandiflora Japanese snowball, Japanese quince, lilac, magnolia, rhododendron maximum, Rose of Sharon, Philadelphus syringa grandiflorus, Spiraea, Weigelia. Vines: Boston ivy, crimson rambler, clematis paniculata (also large-blos-somed purple and white varieties). English ivy, honeysuckle, hops, Japanese gourd (annual), passion flower (annual), trumpet-creeper, Virginia creeper, wistaria.

Books for the Parmer and Gardener: "Farmers' Cyclopedia of Agriculture," by Wilcox & Smith; "Ten Acres Enough"; "American Fruit Culturist," by J. J. Thomas; "Farm Grasses of the United States," by J. J. Spillman; "Making the Farm Pay," by C. C. Bowsfield; "Success with Hens"; "Success with Hogs"; "Vegetable Forcing," by R. L. Watts; "Profitable Dairying," by C. L. Peck; "Diseases of Swine," by R. A. Craig; "Vegetable Gardening," by R. L. Watts; "Insects and Insecticides," by Professor Weed; "Fertilizers and Crops," by Dr. Lucius L. Van Slyke; "Weeds of the Farm and Garden," by L. H. Pammel.

FOR PRICES OF BOOKS AND LARGE LIST SEE PAGES 70 AND 71.

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UR SEEDS are the BEST that can be obtained anywhere, because we are as careful in our selection as it is possible for anyone to be, and are constantly on the lookout for the best of everything, but will not put on the market anything until it has been thoroughly tried and proved.

No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our constantly and rapidly increasing trade does and will testify.

Our Seeds are ALL TESTED thoroughly before being placed on the market.

If for any reason you change your post-office address, please advise us, giving your old address as well as your new one, stating which is the old and new one.

HOW TO ORDER TO AVOID DELAY.—All orders from unknown correspondents should be accompanied with the cash. Money can be safely sent by check, post-office order, express money order, registered letter or by express, or postage stamps for small amounts. We prepay postage on all orders of Vegetable and Flower Seeds, by the packet, ounce, quarter pound and pound, except Beans, Peas and Corn, at prices named in this Catalogue, when orders are accompanied with the cash. On Beans, Peas, Corn, and other merchandise use Parcel Post Table. SEEDS BY EXPRESS are far more satisfactory than Parcel Post, because of quicker transit and more careful handling. To points beyond the Third Zone it is cheaper to ship by Express than by Parcel Post.

For other seed and merchandise rate, consult table on this page. POISONS CANNOT BE SENT BY MAIL.

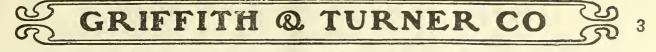
By writing out your order on the Order Sheet sent with each Catalogue you will greatly facilitate our work. Extra Order Sheets sent on application. Be sure to sign your name in full, giving post-office and shipping point. If you have rural delivery, give name and number of route. If you want goods shipped by boat or railroad, state which you prefer, and what line to send by.

GRIFFITH & TURNER CO. give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any Seeds, Bulbs or Plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

DELIVERY BY PARCEL POST

We deliver by PARCEL POST FREE to any post-office in the United States all Cash Orders for Flower and Garden Seed at Catalogue Prices, except Peas, Beans, Corn and Field Seeds. No Seed delivered free unless order is accompanied with the cash. For Peas, Beans, Corn, Field Seeds, and Merchandise rate consult the table which appears on this page.

NOTES ABOUT PARCEL POST. — Poisons and Insecticides Cannot be Sent by Mail. Weight Limit in First and Second Zones, 70 lbs.; in Other Zones, 50 lbs. Bulk Limit (Measurement Around Package Both Ways) in all Zones, 84 Inches. Liquids and Goods Packed in Glass Should be Sent by Express.



ABLE VEGETABLE SEEDS OF QUALITY UNITED STATES FOOD ADMINISTRATION LICENSE **ARTICHOKES** No. G 22972.



Globe or French Artichoke.

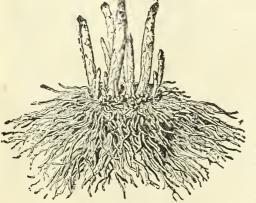
This is a very nice vegetable to eat. Some prefer it cooked like asparagus—that is, take the flower head before it begins to open and cook much the same way. Sow in March in hotbed and when danger of frost is over transplant in very rich, well-drained soil in rows four feet apart and two feet apart in the row. The plants can be raised in seed beds out of doors, but in that case will not be likely to produce heads the first year. Late in the fall cut off the old tops and thoroughly protect the crowns with leaves or straw to prevent severe freezing.

The second year thin the starting shoots to three of the best, which will commence to form heads about June 1st. The plants may also be blanched by cutting back the stems close to the ground in June, the rapidly growing shoots which then start up may be tied and blanched like celery. As artichoke plants do not yield satisfactorily after three or four years, it is best to start a new plantation every three years.

LARGE GREEN GLOBE.—A favorite French vegetable of medium height with rather deep green leaves. The buds or flower-heads are green, nearly round or somewhat elongated. **Pkt., 5c. Oz., 40c.**

JERUSALEM ARTICHOKE ROOTS.—Used for table and stock feeding. The tubers roasted or boiled and served with butter, well seasoned, make a dish, some think, greater than Potatoes. However, their greatest value is for hogs. Plant and culti-vate like potatoes. Peck, 75c. Bushel, \$3.00.

Palmetto Asparagus.



Asparagus Roots.

ASPARAGUS

This is one of the earliest spring vegetables, and should be in universal usc. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four or five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row.

PALMETTO.—A very early maturing variety, producing an abundance of very large, deep green shoots.

Pkt., 5c. Oz., 10c. 1/4 lb., 20c. Lb., 60c. 5 lbs., \$3.00.

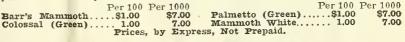
MAMMOTH WHITE.—Produces large, white shoots six inches above the surface; fine quality. Pkt., 5c. Oz., 10c. 1/4 lb., 20c. Lb., 60c.

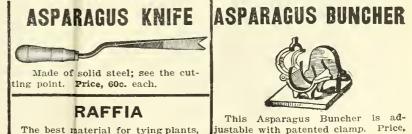
BARR'S MAMMOTH.—The stalks are very large, and retain their thickness completely up to the top of the shoots; light in color. Pkt., 5c. Oz., 10c. 1/4 lb., 20c. Lb., 60c. 5 lbs., \$3.00.

CONOVER'S COLOSSAL.—A mammoth, green sort of the largest size and of good quality. One of the best known and most generally cultivated varieties. Pkt., 5c. Oz., 10c. 1/4 lb., 20c. Lb., 60c. 5 lbs., \$3.00.

GIANT ARGENTEUIL.—A French variety. Stalks large and thick. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

ASPARAGUS ROOTS.—A saving of one to two years is effected by plant-ing roots. A bed 12x40 feet, requiring about 100 roots, should give a suffi-cient supply for an ordinary family. 7260 roots will plant an acre. Select good loamy soil, plow deep, put in good quantity of manure and 100 pounds kainit to 1000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants nine inches apart. In field culture rows are placed four feet apart.





justable with patented clamp. Price, \$3.00 each.

vines, etc. Per pound, 30c. ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BEANS DWARF OR BUSH-WAX PODDED

Select light, warm soil and plant when danger from frost is past in the spring, in drills 2 to 2½ feet apart, dropping the beans about 6 to 8 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August. Add 6 cents per pound on all Beans if to be sent by mail. For larger quantities see table on page 2. Crop very short, order early.

order early.

IMPROVED RUSTPROOF GOLDEN WAX.

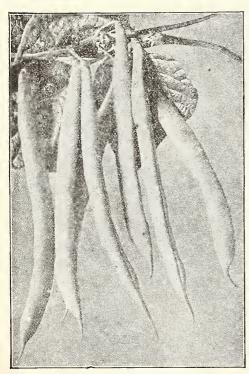
This is the earliest, handsomest and hardiest of all the Wax Beans. The pods are straight, long and thicker than the ordi-nary Golden Wax, much superior in quality, absolutely rust-proof and sure to become the favorite Wax Bean; in fact, it has already gained great popularity with growers. **Pint**, 30c. **Quart**, 50c. **Peck**, \$3.25. **Bushel**, \$12.00.

Pint, 30c. Quart, 50c. Pecs, 53.25. Bushel, \$12.00. GOLDEN-EYED WAX. This Bush Bean is very early; the vine grows vigorously to about one and a half feet high, holding pods off the ground. The pods are handsome, long, straight and flat, remarkably free from rust. Pint, 30c. Quart, 50c. Peck, \$3.25. Bushel, \$12.00. DAVIS' KIDNEY WHITE WAX. Vigonous groups abundantis: long white hardsome

DAVIS' KIDNEY WHITE WAX. Vigorous grower, bears abundantiy; long, white, handsome pods, which are crisp and tender if gathered when young. Pint, 30c. Quart, 50c. Peck, \$3.25. Bushel, \$12.00. DWARF PROLIFIC BLACK WAX. Yellow pod, a very superior snap sort, ripening among the first earlies and having the best characteristics. Very tender. Fint, 30c. Quart, 50c. Peck, \$3.00. Bushel, \$11.00.

MODSON WAX.

The most vigorous wax-podded bean yet introduced. The yield of large, handsome pods is enormous. Its dense foliage protects the pods, so that their color is clear creamy white. Pods very long, straight or slightly curved, flat, but fleshy, quite stringless and of very good quality. While late in ma-turing, the remarkable vigor of the plant is a safeguard against blight and other diseases. **Fint, 30c. Quart, 50c. Peck, \$3.25. Bushel, \$12.00.**



CURRIE'S RUSTPROOF GOLDEN WAX.

UNITED STATES FOOD ADMINISTRATION LICENSE No. G 22972.

NEW BALTIMORE STRINGLESS WAX.

Black seeded, early: thick flat yellow pod. No strings. Have appearance of Currie's Rustproof Wax, but are better cropper, and absence of strings make them much more desirable for canning and other uses. Pint, 30c. Quart, 50c. Peck, \$3.25. Eushel, \$12.00.

CURRIE'S RUSTPROOF BLACK WAX.

For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and very meaty, of a beautiful color; quality not surpassed, and for productiveness it is unequaled.

Fint, 30c. Quart, 50c. Peck, \$3.00. Bushel, \$11.00.

WARDWELL'S KIDNEY WAX BEAN.

This is one of the best wax sorts. The vines are remarkably vigorous, hardy and productive. The pods are very large, smooth, showy, tender, perfectly stringless and of unusually fine quality.

Pint, 30c. Quart, 50c. Peck, \$3.25. Bushel, \$12.00.

NEW PENCIL POD WAX BEAN.

Very early and productive. Pods long, straight and handsome; color, light golden yellow; strong and vigorous bush. One of the best varieties. Pint, 30c. Quart, 50c. Peck, \$3.00. Bushel, \$11.00.



The green podded dwarf sorts are perhaps the most important class of garden beans and are probably more extensively used for snaps than the wax podded varieties, although the latter are considered by many as the more attractive in appearance. The green podded sorts are as a rule the more productive, being less sensitive to unfavorable conditions of soil and climate and of late years have been less susceptible to bean diseases.

G. & T. CO.'S EXTRA EARLY RED VALENTINE (Specialty).—Ten days earlier than the ordinary Red Valen-tine Bean, and therefore the best for truckers and market gardeners. It is without doubt the very best and earliest green Snap Short Bean. The habit of the vine is dwarfed and very uniform. Color of pods light green, round, curved, succulent, proli-

and very uniform. Color of pods light green, round, curved, succulent, proli-fic, continuing long in edible condi-tion. Pt., 30c. Qt., 50c. Pk., \$2.75. Bu., \$11.00.

BLACK VALENTINE.—This excel-lent extra early variety has perfectly round, straight pods of excellent quality. It is suitable both for early and late planting, being extremely hardy. A most desirable sort for the market gardeners, owing to its enor-mous yielding qualities, large and handsome appearance. **Pt.**, **30c. Qt.**, **50c. Pk.**, **\$2.75. Bu.**, **\$11.00.** BLACK VALENTINE .--This excel-

EXTRA EARLY BOUNTIFUL (Flat **Green Pod).**—A prolific and continu-ous bearer. The first in the spring, the last in the fall. Absolutely stringless, very tender and of delicious flavor. Pt., 30c. Qt., 50c. Pk., \$2.75. Bu., \$11,00.

EXTRA EARLY REFUGE.—It is similar in every respect to the ordinary Refugee, but is nearly two weeks & T.'S IMPROVED TRA EARLY RED VALENTINE BEANS. equally early with Red Valentine and has that beautiful silvery green color in the

pods that is so much desired.

Pint, 30c. Quart, 50c. Peck, \$3.00. Bushel, \$11.00.

REFUGEE, or 1000 TO 1.

A medium to late variety, very productive and largely grown for pickling; hand-.some and tender pods.

Pint, 30c. Quart, 50c. Peck, \$2.75. Bushel, \$11.00.

GREEN-PODDED STRINGLESS REFUGEE.

Medium-early, round-podded green stringless; exceptionally good cropper. Fine for canning and table use. Newest thing in Green Pod Stringless Beans. Pint, 30c. Quart, 50c. Peck, \$3.25. Bushel, \$12.00.

BURPEE'S NEW STRINGLESS GREEN POD.

One of the earliest varieties, pods round and full, absolutely stringless and of beautiful fleshy appearance; quality excellent. The only green pod bean of which the pods never develop any strings.

Pint, 30c. Quart, 50c. Peck, \$3.00. Bushel, \$11.00.

BURPEE'S STRINGLESS GREEN POD BEANS.

GIANT STRINGLESS GREEN POD. Resembles very much the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages and of mild flavor. Pint, 30c. Quart, 50c. Peck, \$3.00. Bushel, \$11.00. EARLY MOHAWK. This exceptionally hardy sort can be planted earlier than others and in this way will often fur-nish beans fit for use before any other green podded variety. The plants are large and stout, with large coarse, dark green leaves. The pods are medium dark green, long, six to six and one-half inches, straight, coarse, flat, with long tapering points. Fint, 30c. Quart, 50c. Feck, \$3.00. Bushel, \$11.00.

Bushel, \$11.00. LONG YELLOW 6 WEEKS. The plants of this hardy variety, large, vigorous, erect and very productive. The leaves are large. The pods are long, about six inches, straight, flat. handsome, rather light green and when young are of good quality for snaps. Pint, 30c. Quart, 50c. Peck, \$3.00. Bushel, \$11.00. Wery green podded sort, used as a shell bean, and for this purpose is one of the finest in gen-eral use; long a favorite with those who use a shell bean in a green state. Pint, 30c. Quart, 50c. Pock, \$3.25. Bushel, \$12.00. DEST OF ALL.

 Pick, \$3.25.
 Bushel, \$12.00.
 BEST OF ALL.

 One of the most valuable green podded sorts for family or market use. Pods are six inches long, very fleshy, succulent, stringless, of rich flavor; produced early and abundantly. Pint, 30c.
 Ouart, 50c. Peck, \$3.25.

 Quart, 50c.
 Peck, \$3.25.
 Bushel, \$12.00.

 WHITE MARROWFAT.
 Extensively grown for sale as a dry bean for winter use. Pt., 30c.; Qt., 50c.; Pk., \$2.00; Bu., \$7.00.

 A well-known variety for field culture; very prolific.
 Pt., 30c.; Qt., 50c.; Pk., \$2.00; Bu., \$7.00.



& T.'S IMPROVED XTRA EARLY RED VALENTINE



U. S. FOOD ADMINISTRATION LICENSE No. G 22972.

Plant in drills two to three feet apart, dropping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two to three feet apart one way and two to two and one-half feet the other and plant four beans in a hill. Hoe often but only when the leaves are dry.



When Beans are sent by mail add, for postage, 6c. per pound. For larger quantities refer to table on page 2.

FORDHOOK BUSH LIMA.—An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing three to five large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlie. We con-sider this a decided acquisiti n to the dwarf Lima, possibly the best of the class. Ft., 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.

BURPEE'S IMPROVED BUSH LIMA.—Will outyield Burpee's Bush Lima by fully one-third. This greater yield is due to the in-creased size of both pod and beans. The dried beans are very hand-some, and generally show a greenish-white coloring, while dried beans of the Burpee Bush Lima, like those of the Large Pole Lima, are pure white. **Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.**

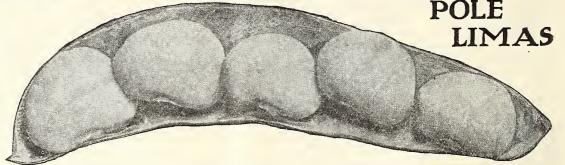
BURPEE'S BUSH LIMA.—Bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush 2 to 3 feet in diameter; an immense yielder, each bush bearing 50 to 200 handsome, large pods, well filled. **Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.**

KUMERLE, or DREER'S BUSH LIMA.—Dwarf variety of Dreer's Improved Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima. **Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.**

DREER'S WONDER BUSH LIMA.—Very desirable on account of earliness, productiveness; of strong, upright growth, and are com-pletely covered with large pods, many of which contain four beans, which are fully as large as the Pole Limas. The beans are flat in shape and of excellent quality. Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.

HENDERSON BUSH LIMA.—These are very valuable, because they do not need poles, and, being so dwarf, can be planted close together. They are very early and prollfic, continuing to bear until frost. Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.

Set the poles 3 to 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole, thinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties.



CARPENTERIA POLE LIMA.—The newest large pole Lima; enormously prolific; early green and delicious flavor. Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.

 HENDERSON'S EARLY LEVIATHAN.—This is the very earliest. It will not only give large Lima beans earlier than any other strain, but is also much more productive, both early and throughout the season. It is a strong grower, clinging well to the poles, and is a sure cropper. The pods hang out from the foliage in large clusters and contain three or iour and sometimes five large beans to the pole. Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.

 KING OF THE GARDEN LIMA.—This bean has met, with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the fort qualities. As a shell bean surpasses all in quality, and is the favorite with most people.
 Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.
 EXERA LARGE WHITE LIMA.—The pods grow to an average length of \$ inches, are produced in great clusters, if a very profitable sort to grow. Fint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.
 EXERA EARLY JEESEY LIMA.—This variety is two weeksearlier than other sorts: the pods are large and numerous, making it a very profitable sort to grow. Fint, 35c. Quart

BEANS --- Pole or Running

These are of strong running growth, and need stout poles on which to climb. They require a longer season in which to mature than do the bush varieties, but by reason of their stronger growth are more productive, and growing on poles are more easily gathered.

MARYLAND WHITE.—This new White Pole Bean is destined to take its place as one of the best beans ever grown for general purposes. Its thick, meaty, green pods are very tender, rich in flavor, and produced in great abundance. It is equally valuable as a snap or shell bean. Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.

LAZY WIFE.—Large pale green pods, very thick meated, stringless, rich, tender and but-tery; ripens early; clings well to the pole; enormously productive; splendid either as a snap or shell bean. **Pint**, 35c. **Quart**, 60c. **Peck**, \$4.00. **Bushel**, \$16.00.

KENTUCKY WONDER, OR OLD HOMESTEAD.—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 to 10 inches in length, nearly round when young, and very crisp. **Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.**

SPECKLED HORTICULTURAL, OR WREN'S EGG .- An old favorite for both snap-shorts and dry beans. Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.

CREASE BACK, OR FAT HORSE.—A well-known and highly esteemed Southern variety; very productive; forms full, round pods; fleshy; stringless. Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.

SPECKLED CUT-SHORT, OR CORN HILL.—An old variety, very popular for planting among corn; pods short, cylindrical and tender. Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.

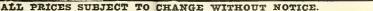
DUTCH CASE KNIFE.—Vines moderately vigorous, climbing well; may be used for a corn-hill bean; pods long, flat, irregular green, but becoming cream white. Pint, 35c. Quart, 60c. Peck, \$4.00. Bushel, \$16.00.

BROCCOLI 1 Ounce of Seed to 100 Yards of Row. The heads resemble somewhat a coarse cauli-flower and the culture is the same as for that vegetable. Broccoln is well adapted only to those sections where the season islong, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower. EARLY PURPLE CAPE. — Large, compact. Pkt., 10c. 0z., 50c. LARGE EARLY WHITE.—Head white, like cauliflower; the best. Pkt., 10c. 0z., 50c. BORECOLE This is often called Broccoli by market gar-deners, but belongs to the Kale family. Very spreading in habit and beautifully curled. Seed should be sown in May and transplanted in July, in the open field and treated same as Savoy Cabbage. PKts., 5c. and 10c. 02., 15c. 14 1b., 50c. Lb., \$1.75. SWISS CHARD BORECOLE. (Sea Kale or Spinach Beet.) (Sea Kale or Spinach Beet.) This kind of beet is grown exclusively for the numerous, fleshy, tender leaves and leaf stalks, which are superior to those of other beets for use as greens. Later in the season the wax-like leaf stems are cooked like asparagus or are pickled. This variety we offer has large, broad, undulated leaves, and remarkably broad stalks and midribs or chards. It is well worthy of a place in the home garden as well as for market use. Pkt., 5c. Oz., 15c. ¼ Lb., 30c. Lb., \$1.00. BRUSSELS SPROUTS 1 Ounce of Seed to 100 Yards of Row. Brussels Sprouts are used in the fall and early winter and by some considered more tender and de-licious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. The culture is the same in all essentials as for cabbage, ex-cept the leaves should be broken down in the fall to give the little heads more room to grow.

SWISS CHARD.

wiss Chard

Pkts: 5c. and 10c. Oz., 20c. 1/ Lb., 60c. Lb., \$2.25.



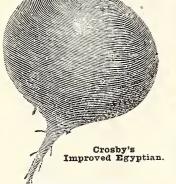
Kentucky Wonder Pole Beans.

Brussels Sprouts.



One Ounce of Seed Will Sow One Hundred Feet of Drill

Select a deep, rich sandy loam and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May, and for winter use, during June or July, according to the variety-the long varieties requiring more time to mature than the round, early kinds.



EGYPTIAN BEET CROSBY'S IMPROVED

A very superior strain of the well-known Egyptian, carefully selected, blood color, quick, rapid growth. The shape is very desirable, as shown in the accompany-ing photograph, being not so round as the Eclipse, or quite so flat as the ordinary Egyptian. It may be sown outside as late as July. Pkt., 5c. 02., 15c. ¹/₄ Lb., 30c. Lb., \$1.00.

BASSANO, OR EXTRA EARLY TURNIP. Flesh white and rose; very sweet and tender. Pkt., 5c. Oz., 15c. ¼ Lb., 30c. Lb., \$1.00.

EXTRA EARLY EGYPTIAN. This is a flat Beet, very early and deep red color. Owing to the small top it can be planted very close. **Pkt.**, 5c. 0z., 15c. 1/4 Lb., **30c. Lb.**, \$1.00.

G. & T. CO.'S EARLY MARKET. G. & T. CO.'S EARLY MARKET. Its qualities are extra early, dark red color, fineness of shape and small top. One of the most attractive varieties grown, and is especially desirable for hotbeds on account of its small top and close-growing habit. Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.



ECLIPSE BEET.

This extra early Beet is remark-able for its fine quality and rapid growth; is of deep red color and handsome shape. As an early mar-ket sort it is unrivaled. It is to a large extent superseding the Egyp-tian, being earlier in development. more attractive in appearance, and of superior quality for the table. **Pkt.**, 5c. 1/4 Lb., 30c. Lb., \$1.00.

EDMAND'S RED TURNIP.

The most uniform of all Turnip Beets. It is of handsome round shape good marketable size and deep blood color. It has a small top, and may be planted close. **Pkt.**, 5c. **Oz.**, 15c. 1/4 **Lb.**, 30c. **Lb.**, \$1.00.

DETROIT DARK RED TURNIP BEET.

BEET. This is one of the finest formed and handsomest-colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop It is exceedingly early, and produces more marketable specimens on the same acreage than any other variety. Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.



G. & T. CO.'S EARLY BLOOD TURNIP BEETS. This is our Special Stock of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Balti-more and other places prefer. It is of dark red color, handsome shape and early. Pkt., 5c. Oz., 15c. ½ Lb., 30c. Lb., \$1.00.

LARGE LONG BLOOD.

A large and desirable late variety of deep red lor. **Pkt., 5c. Oz., 15c. ¹/4 Lb., 30c. Lb., \$1.00.** color.

MANGEL WURZEL BEETS FOR STOCK

SOW 4 POUNDS TO THE ACRE.

Stock Beets grow larger than any other Beets, and hence require more room. They should be sown from April to June, in drills $2\frac{1}{2}$ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased, but it should be grown more generally, and will show the results in the health and condition of the stock. It supplies good, rich food for cattle during the winter.

LONG RED MANGOLD WURZEL.

The well-known, large, long variety, grows well out of ground. Color light red. productive. Pkt., 5c. 1/4 Lb., 25c. Lb., 75c. Very

GOLDEN TANKARD MANGOLD.

The best type of Mangold—small top, smooth, rich skin, broad shoulders, very solid fleshed, golden stemmed, heavy producer. Pkt., 5c. 1/4 Lb., 25c. Lb., 75c.

WHITE SUGAR BEET.

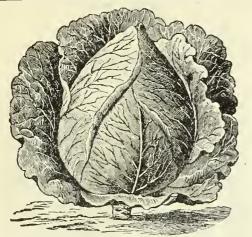
A large-growing sort, and used for feeding stock. Pkt., 5c. 1/4 Lb., 25c. Lb., 75c.

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGOLD.

One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever own. With good cultivation will crop at the rate of 200 bushels per acre. Pkt., 5c. ¼ b., 25c. Lb., 75c. Lb., 25c.



Golden Tankard Mangold.



One Ounce of Seed to 100 Feet of Row. EARLY CABBAGES.

CABBAG

Cabbage will thrive on any good corn land, though the stronger the soil Cabbage will thrive on any good corn land, though the stronger the soil the better they will develop. New land is preferable. Plow deep and ma-nure very liberally, as cabbage is a strong feeder, and will repay for the care bestowed upon it. The early sorts bear planting from eighteen inches to two feet apart in the rows, with the rows from two to two and a half feet apart. The larger varieties to be from two to four feet apart in the rows, with the rows from two and a half to four feet apart, the distance varying with the size. It does not pay to buy cheap cabbage seed. Ours are American grown, and from the best stock in the country. For early use, sow in a hotbed in February or March, and transplant to a cold-frame as soon as large enough. In April the plants may be set out in the rows. For late crop, sow in nursery bed in May or June, and transplant as soon as the plants are five or six inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.

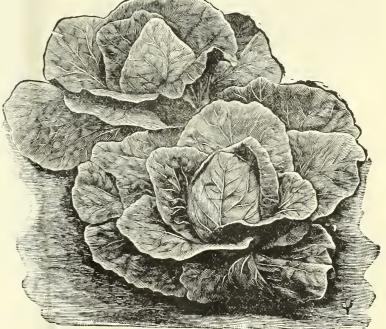
Select Early Jersey Wakefield

Select Larly Jersey Wakefield American Grown. The very best early Cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and having but few outside leaves, the plants can be set close together. We secured our seed from a grower of the best Wake-field Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year. The demand for this sort has brought on the market inferior stock at a low price; but when select stock, such as we offer, is used it cannot fail to give satis-faction. Pkts., 5c. and 10c. 0z., 40c. ½ Lb., \$1.00. Lb., \$3.50.

Charleston, or Large Wakefield American Grown.

American Grown. This is now a very popular market cabbage, fully meeting the demand for a cabbage having all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wake-field. The heads are fully one-half larger and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows. One great advantage is, it does not burst open when ripe, like many other early sorts, and consequently can be left standing on the ground a long while without injury until a favorable oppor-tunity for cutting. No market or private gardener desiring a cabbage of this kind should fail to plant this valuable sort. Pkts, 5c. and 10c. Oz, 40c. ¼ Lb., \$1.00. Lb., \$3.50.

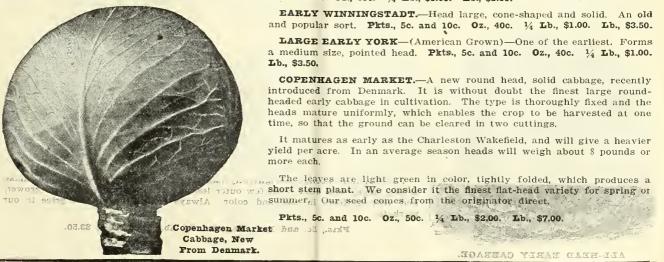
Pkts., 5c. and 10c. Oz., 40c. 1/4 Lb., \$1.00. Lb., \$3.50.



LARGE OR CHARLESTON WAKEFIELD.

KING OF EARLIES.—Our own introduction; American grown. An extra early variety, fully a week ahead of all other vari-eties in forming marketable heads; the heads are tall and slim and of rather small size, formed like a Wakefield. Habit, vigor-ous; short stem and proof against sun. Pkts., 5c. and 10c. Oz., 40c. ¼ Lb., \$1.00. Lb., \$3.50. EXTRA EARLY EXPRESS.—Heads are comparatively thicker and less pointed than Jersey Wakefield and slightly earlier. Head softer, but stands shipping better. Pkts., 5c. and 10c. Oz., 40c. ¼ Lb., \$1.00. Lb., \$3.50.

GRIFFITH @ TURNER CO



ALL PRICES SUBJECT, TO CHANGE WITHOUT NOTICE

CABBAGE-CONTINUED



NEW EARLY-American Grown.

ALL HEAD EARLY

ALL-HEAD EARLY—American Grown, is the largest of all early Cabbages, fully one-third larger than the Early Summer. It is the nearest approach to a thoroughbred cabbage of any variety, both in size and uniform development. As the All-Head comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter Cabbage.

Pkts., 5c. and 10c. Oz., 40c. 1/4 Lb., \$1.00. Lb., \$3.50.

EARLY DWARF FLAT DUTCH-American Grown.

An old standard variety which stands the sun and produces fine, large heads, coming in soon after the Wakefield.

Pkts., 5c. and 10c. Oz., 40c. 1/4 Lb., \$1.00. Lb., \$3.50.

This is one of the finest large early cabbages grown. Forms solid, compact heads, and leaves grow close to the head, thus allowing many more cabbages to be grown on the acre than any other sort. One of its most striking features is its earliness. It heads so rapidly that the worms can't hurt it.

Pkts., 5c. and 10c. Oz., 40c. 1/4 Lb., \$1.00. Lb., \$3.50.

SUCCESSION CABBAGE.—A fine early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. In addition to this, it has no tendency whatever to run to seed. It is one of the finest sorts in existence today; whether for medium early, main crop or late use, it has no superior. It is so finely bred and so true to type that in a field of twenty acres every head appears alike. We can recommend it either for the market gardener, trucker or private planter, as it is a perfect cabbage in every respect, not only being of the largest size, but of handsome color and of the finest quality. It is probably the salest variety for an amateur to plant, as it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted. **Pkts., 5c. and loc. Oz., 40c. ½ Lb., \$1.00. Lb., \$3.50.**

EARLY SUMMER CABBAGE.—American grown. One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about 10 days later than the Wakefield. It is very popular with the truckers. **Pkts.**, **5c. and 10c. Oz.**, **40c.** 1/4 **Lb.**, **\$1.00. Lb.**, **\$3.50.**

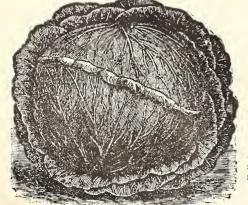
LOUISVILLE DRUMHEAD.—American grown. This is the most popular intermediate or second early with market gardeners around Louisville and the Southwest. It comes off medium early, withstands heat to a remarkable extent, heads large, solid and uniform in size and color. We can recommend this sort very highly for the Southern and Middle States. **Pkts., 5c. and 10c. 0z., 40c.** ¼ **Lb., \$1.00. Lb., \$3.50**.

FOTTLER'S EARLY DRUMHEAD OR SHORT STEM BRUNSWICK CABBAGE. --In its improved type, this is a very fine summer or early fall variety. Good both for intermediate and winter use. Pkts., 5c. and loc. Oz., 40c. ¼ Lb., \$1.00. Lb., \$3.50.



SUCCESSION CABBAGE.

a



ALL SEASONS-Ame ican Grown.

This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season.

Pkts., 5c. and 10c. Oz., 40c. 1/4 Lb., \$1.00. Lb., \$3.50.

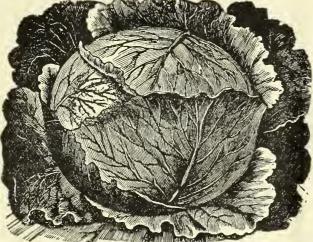
SUREHEAD-American Grown.

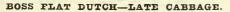
This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets.

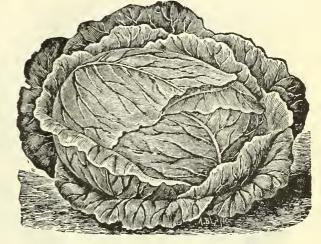
Pkts., 5c. and 10c. Oz., 40c. 1/4 Lb., \$1.00. Lb., \$3.50.

ALL-HEAD EARLY CABBAGE.

LATE OR AUTUMN CABBAGE







PREMIUM LARGE FLAT DUTCH-LATE CABBAGE.

BOSS FLAT DUTCH CABBAGE-

In again calling the attention of market gardeners and truckers to this magnificent Cabbage, we would say that it has fully met the claims we made for it upon its introduction. When we ask our customers how they like it, their answer is "Splendid!" or "Elegant!" "Everything heads!" "You can scarcely find any that don't head!" The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality.

Pkts., 5c. and 10c. Oz., 40c. ¹/₄ Lb., \$1.00. Lb., \$3.50.



PREMIUM LARGE LATE FLAT DUTCH CABBAGE—

American Grown.

Large and excellent for winter; very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem.

Pkts., 5c. and 10c. Oz., 40c. 1/4 Lb., \$1.00. Lb., \$3.50.

ENKHUIZEN GLORY CÁBBAGE

A most valuable second-early Cabbage that is becoming immensely popular. It produces fine marketable heads fully as early as our famous Allhead Early—but round or ball-like in form. The heads are very solid, with but few outer leaves and of such compact growth as to permit quite close planting, thus increasing the yield. The heads are of medium size, tender and of fine flavor. They keep well when put away and consequently Enkhuizen Glory is valuable also for sowing later in the season for early winter use. Plants set out in mid-summer will produce fine heads before cold weather. The seed we offer has been grown by the originator in Holland and will yield heads that will delight the most critical planters.

Pkts., 5c. and 10c. Oz., 40c. 1/4 lb., \$1.00. Lb., \$4.00.

DANISH BALL HEAD.

This most excellent variety of cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in Philadelphia, New York and Boston markets.

Pkts., 5c. and 10c. Oz., 40c. 1/4 lb., \$1.00. Lb., \$4.00.



LARGE LATE AMERICAN DRUM-HEAD (American Grown).

One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality. Pkts., 5c. and loc. Oz., 40c. 1/4 Lb., \$1.00. Lb., \$3.50.

WORLD-BEATER, or AUTUMN KING.

This is a very superior late cabbage. The large, broad heads are very thick through, slightly rounded at the top, fine grained and tender, has a short stalk, green color, and one of the best keepers we know, and is a rapid grower. Pkts., 5c. and loc. Oz., 40c. ¹/₄ Lb., \$1.00. Lb., \$3.50. RED DUTCH.

The head is round, large, solid and a deep red color, the best of the red cabbages. Pkts., 5c. and 10c. 0z., 40c. ¹/₄ Lb., \$1.00. Lb., \$3.50.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

LATE CABBAGES --- CONTINUED PERFECTION DRUMHEAD SAVOY



This is without any exception the finest stock of Savoy cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first class. To say that our market gardeners are pleased with it is putting if mild; they are enthusiastic over it, as they find it so much superior to the old-time Savoy. It is specially adapted to private use, as when grown in the fall and allowed to be touched by frost it is one of the most delicious

AMERICAN GROWN.

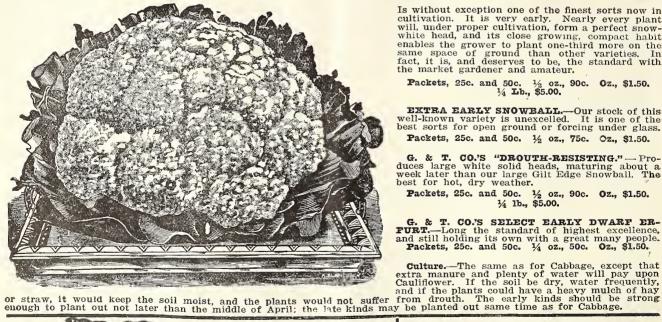
Packets, 5c. and 10c. Oz., 40c. 1/4 Lb., \$1.50. Lb., ---

GEORGIA COLLARD

Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality.

Packets, 5c. and 10c. 1/4 Lb., 30c. Lb., \$1.00.

G. & T. CO.'S LARGE GILT EDGE SNOWBALL CAULIFLOWER



Is without exception one of the finest sorts now in will, under proper cultivation, form a perfect snowwhite head, and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. In fact, it is, and deserves to be, the standard with the market gardener and amateur.

Packets, 25c. and 50c. ½ oz., 90c. Oz., \$1.50. ¼ Lb., \$5.00.

EXTRA EARLY SNOWBALL.—Our stock of this well-known variety is unexcelled. It is one of the best sorts for open ground or forcing under glass. Packets, 25c. and 50c. 1/2 oz., 75c. Oz., \$1.50.

G. & T. CO.'S "DROUTH-RESISTING." -- Pro-duces large white solid heads, maturing about a week later than our large Gilt Edge Snowball. The best for hot, dry weather.

Packets, 25c. and 50c. ½ oz., 90c. Oz., \$1.50. ¼ 1b., \$5.00.

G. & T. CO.'S SELECT EARLY DWARF ER-FURT.—Long the standard of highest excellence, and still holding its own with a great many people. Packets, 25c. and 50c. ½ oz., 50c. Oz., \$1.50.



CORN SALAD Three Ounces of Seed to 100 Feet of A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter: it can be gathered in the Row. winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach. Pkt., 5c.

Oz., 10c. 1/4 Lb., 20c. Lb., 60c.

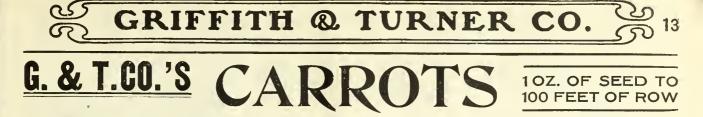
CRESS, OR PEPPER GRASS

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short in-tervals throughout the season.

CURLED .- Pkt., 5c. Oz., 10c. 1/4 lb., 25c. Lb., 75c.

WATER CRESS.—Water Cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets.

Pkts., 5c. and 10c. Oz., 30c. 1/4 Lb., 75c. Lb., \$2.50.



Carrots thrive best in rather a light, rich loam. The ground should be well manured with fine, well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the rows. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.



OXHEART OR GUERANDE.



EARLY SCARLET HORN.

Oxheart or Guerande

One of the heaviest yielders and the best for stiff and heavy soils where the long varieties would fail. The roots are often 3 to 3½ inches thick at the top; nearly oval in shape; the flesh is bright orange, fine grained and sweet. Of the finest table quality and equally good for stock.

Pkt., 5c. Oz., 15c. 1/4 lb., 30c. Lb., \$1.00.

CHANTENAY

CHANTENAY.

A most excellent, medium early, half long variety. It is one of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it desirable as a field sort. The tops are medium sized with small neck. The mature roots are thick, five and one-half to six inches in length; uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. The flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. The variety is extensively used for bunching.

Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.

EARLY SCARLET HORN

The earliest variety in our list. Blunt-pointed, about 3 inches long, 1¹/₂ inches thick, very fine grained, sweet flavored; deep rich orange color. Fine for bunching. **Fkt.**, 5c. 0z., 15c. ¹/₄ Lb., 30c. Lb., \$1.00.

HALF LONG DANVERS

A decided acquisition of the half-long type, broadshouldered, cylindrical, admirable in color, fixed in habits, a wonderful producer. It is a first-class Carrot for all soils.

Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.

IMPROVED LONG ORANGE

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color.

Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.

SCARLET INTERMEDIATE

A fine handsome Carrot, in form midway between the Long Orange and Early Scarlet Horn. The roots are smooth and handsome, deep orange color, medium length tapering to a blunt point. The flesh is sweet, crisp and tender,

DANVERS.

Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.

IMPROVED LONG ORANGE.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

1 Oz. Will Produce 2000 Plants. CELERY

GRIFFITH @ TURNER CO

CELERY

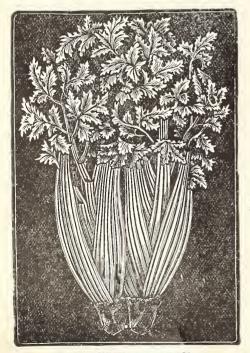
Requires water, and lots of it, from the time the seed is sown in boxes in March until it is pulled in the autumn or winter. The seed is slow to germinate, and the soil where it is planted needs to be kept very wet.

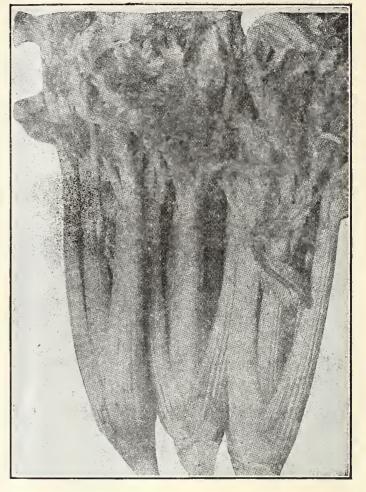
Plant seed in hotbed or very early in open ground. Transplant 4 inches apart when 3 inches high in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the center shoots.

FRENCH GOLDEN SELF-BLANCHING

This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery. No variety can surpass if, indeed, equal the Paris Golden Self-Blanching in its striking appearance and delicious flavor. Our stock of this variety has been giving the market gardeners the very best results for several years.

Pkts., 5c. and 10c. Oz., 50c. 1/4 Lb., \$1.50. Lb., \$5.00.





FRENCH GOLDEN SELF-BLANCHING CELERY.

IMPROVED BOSTON MARKET

This is a decided improvement on the old Boston Market, being earlier, larger in size and of more vigorous growth.

Pkts., 5c. and 10c. Oz., 20c. 1/4 1b., 50c. Lb., \$1.75.

WHITE PLUME

An early, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it_o and as a Celery for fall and early winter use it is unsurpassed.

Pkts., 5c. and 10c. Oz., 20c. 1/4 lb., 60c. Lb., \$2.25.

WHITE SOLID

A large standard sort. One of the large growing sorts.

Pkts., 5c. and 10c. Oz., 20c. 1/4 Ib., 50c. Lb., \$1.75.

CELERY SEED FOR FLAVORING

This seed is used for flavoring pickles, soups, etc.

Pkt., 5c. 1/4 lb., 25c. 1/2 lb., 40c. Lb., 80c.

WHITE PLUME CELERY.



WINTER QUEEN CELERY.

GOLDEN HEART, OR GOLDEN DWARF CELERY

GIANT PASCAL CELERY. A selection from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of fine nutty flavor, being entirely free from any bitter taste. It grows about 2 feet high. The stalks are very broad, thick and crisp; the width and thickness of these are distinctive features of this variety. Pkts., 5c. and 10c. Oz., 20c. ¹/₄ lb., 50c. Lb., \$1.75.

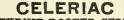
GOLDEN HEART, OR GOLDEN DWARF CELERY. This old standard variety still holds a high place in the estimation of market gardeners, and is largely used, always giving satisfaction. A showy sort, solid, of fine flavor and a good keeper. Phts., 5c. and 10c. Oz., 20c. 1/4 lb., 50c. Lb., \$1.75.

It is, without doubt, the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious Pkt., 10c. Oz., 20c. 1/4 1b., 50c. Lb., \$1.75. nutty flavor.

NEW YORK GIANT SELF-BLANCHING CELERY.

A fine large, white self-blanching celery. It is extra early, and if sown in early spring can be had for market in August. We consider it the best white variety for the early fall trade; has a vigorous growth and attains a very large size; is crisp, tender, brittle and very sweet, with a nutry flavor superior to any of the old kinds.

Pkts., 5c. and 10c. Oz., 30c. 1/4 lb., \$1.00. Lb., \$3.00.



OR TURNIP ROOTED CELERY.

LARGE SMOOTH PRAGUE. The largest, smoothest and best of the Celeriacs. Pkts., 5c. and 10c. Oz., 15c. 1/4 lb., 50c. Lb., \$1.75.

NEW APPLE SHAPE.

Small foliage, large, round and smooth. Pkts., 5c. and 10c. Oz., 15c. 1/4 Lb., 50c. Lb., \$1.75.

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Large Smooth Prague.



KER HEDR Extra Early

Baltimore.

Not a Sugar Corn, but are used for very early planting and will mature nice roast-ing ears before the sweet corn. EARLY VARIE FIRST FIRST EXTRA EARLY VARIETIES



EXTRA EARLY BALTIMORE.—The hardiest and earliest variety for table use; it can be planted earlier than any other, but is not a sweet corn; white indented grains and short ears. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$6.00.

G. & T. CO.'S NEW 60-DAY CORN.-The largest extra early corn grown. As early as Extra Early Adams, but grows larger ears. Crop Failed.

EXTRA EARLY ADAMS .- Extremely hardy and early; one of the best for early planting. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$6.00.

EARLY ADAMS .- A favorite in the South. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$6.00.

NINETY-DAY CORN (Red Cob.)—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop, and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop. Quart, 15c. Peck, \$1.00. Bushel, \$3.75.



EXTRA FARLY VARIETIES. (Bushel Sweet Corn, 44 Lbs.).

DE LUE'S GOLDEN GIANT SUGAR CORN

DE LUE'S GOLDEN GIANT SUGAR CORN is the result of fourteen years of selection from the product of the Howling Mob crossed with Golden Bantam and combines all the good points of both parents. Because of its excellent qualities it was awarded the only medal given by the Massachusetts Horticultural Society in 67 years, and has since been given three first prizes by the same society.

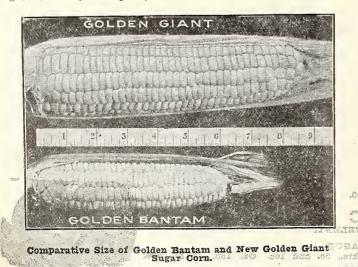
The stalks grow $4\frac{1}{2}$ feet to 6 feet tall and very near the ground; about one-third are purple in stalk leaf and husk. They carry two or three good ears, 7-9 inches long; cob of small diameter, with 12-20 rows of long, deep kernels of deep orange color. The husk is very heavy, affording the end protection from worm and bird.

Customers of the last three years report that it is the sweetest and most tender and juicy of all sweet corns, and that it is in some cases one to two weeks earlier than Bantam, besides being three times as large.

It excells all other early varieties in size, productiveness and quality, and all the late varieties in quality and early maturity. It is the one corn for the home or market gardener who wants the greatest amount of highest quality corn in the shortest period of time from the smallest piece of land.

Our seed is grown and packed by the originator. Price-2 oz., 35c. 4 oz., 50c. 8 oz., 85c. 16 oz., \$1.50.

NEW GOLDEN BANTAM SUGAR CORN.—The earliest and best of sugar corns. It is of golden color and delicious flavor, with the sweetness of honey; can be planted earlier than the other varieties of true sweet corn, as it is very hardy. The stalks are dwarf in habit, growing about four feet high, producing two or three good ears five to six inches long, well set from the ground. Pint, 15c. Quart, 30c.



PREMO.—The best early sweet corn on the market. A genuine sweet corn as early as the Adams Extra Early, and larger than any other early variety. The quality is the best, ears measuring 7 to 9 inches long, being well filled to the end; generally bearing two ears to the stalk. **Pint, 15c. Quart, 30c. Peck, \$1.75.**

CORY .- An early variety red cob. Pt., 15c. Qt., 30c.

FIRST OF ALL.—A selection from the Cory, the ears about the same size as the Cory, lighter in color and earlier. **Pint, 15c. Quart, 30c.**

WHITE CORY.-An early variety, with good-sized ears and large kernels. Pint, 15c. Quart, 30c.

STABLER'S EARLY.—Of larger size than usual for the early kinds. It is remarkable for the fine flavor and sweet-ness, and is a desirable gardeners' and canning variety. Pint, 15c. Quart, 30c.

CROSBY'S EXTRA EARLY.—An early market variety, very productive; ears rather short and rich, sugary flavor. Pint, 15c. Quart, 30c.

EARLY MINNESOTA SUGAR. One of the first eary camong sugar corn. Fint, 15c. Quart, 30c. BLACK MEXICAN SUGAR. The black corn is especi-ally rich in sugary qualities. Fint, 15c. Quart, 30c.

CAUTION. Sweet Corn in bulk, even after being thor-oughly cured, will often gather moisture and spoil, par-ticularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and spread in a dry place.come desgrad off

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE. Large Smooth Fragme. ASK FOR PRICES IN QUANTITY.

EET OR SUGAR CORN FOR TABLE U

CAUTION.—Sweet Corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and spread in a dry place.

UNITED STATES FOOD ADMINISTRATION LICENSE No. G 22972.



BUSHEL SWEET CORN CONSISTS OF 44 POUNDS.

COUNTRY GENTLEMAN CORN.—This is the sweetest and most delici-ously flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts. **Pint**, 15c. **Quart**, 25c. **Peck**, \$1.50. **Eushel**, \$6.00.

STOWELL'S EVERGREEN.—So well known that it scarcely needs descrip-tion. Excellent; keeps green till cold weather; ears large; one of the best. Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$6.00.

TRUCKERS' EARLY SUGAR CORN.—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excel-lent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen, very productive, grow-ing two to four ears to the stalk. The ears set low, are large and well filled the grain long and narrow, similar to Evergreen, but smaller. It is one of the most productive varieties in cultivation. **Pt. 15c. Qt. 25c. Pk., \$1.50. Bu., \$6.00.**

HICKOX.—A very handsome and excel-lent variety of sugar corn; large, white grain and sweet.

Pt., 15c. Qt., 25c. Peck, \$1.50. Bu., \$6.00.

IMPROVED NE PLUS ULTRA.—Early, good-sized ears and deep grain; very productive, some stalks yielding four ears and an average crop running as high as three ears to the stalk.

Pt., 15c. Qt., 25c. Peck, \$1.50. Bu., \$6.00.

LATE HAMMOTH.—The largest variety grown; very fine for market purposes. Pt., 15c. Qt., 25c. Peck, \$1.50. Bu., \$6.00. EGYPTIAN, OR WASHINGTON MARKET.—A large variety, somewhat re-sembling the Evergreen: flavor peculiarly rich and sweet, and of superior quality; fine

for market.

Pint, 15c. Quart, 25c.

ZIGZAG EVERGREEN.—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country Gen-tleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, ex-cept that the kernels are placed irregu-larly or zigzag upon the cob, which is al-ways an indication of great sweetness in any variety of sugar corn.

Pint, 15c. Quart, 25c.

RENDALL'S EARLY GIANT. — The rgest early sweet corn known, and is very largest productive.

Pint, 15c. Quart, 25c.

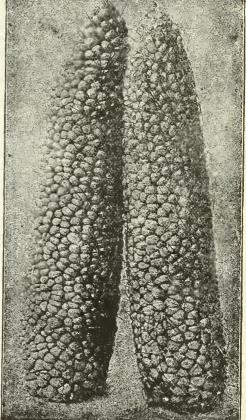
EARLY MAMMOTH. - A splendid market sort, producing large, handsome ears; grain large, white and sweet; fills out well at the end.

Pt., 15c. Qt., 25c. Pk., \$1.50.

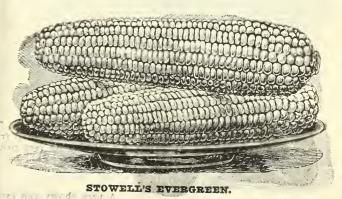
WHITE EVERGREEN .-Has ears as large as Stowell's, is five days earlier; grains pure white. A valuable acquisition for the gardener and canner. Pt., 15c. Qt., 25c. Pk., \$1.50.

SUGAR CORN.-For fodder. Write for prices.

ADITON TASK FOR PRICES IN QUANTITY.



COUNTRY GENTLEMAN.



TRUCKERS' EARLY CORN.

1 Oz. Will Flant 50 Hills. 2 Lbs. Will Plant an Acre.

CUCUMBER CULTURE

For very early Cucumbers sow the first of April in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm in hills 4 feet apart for the smaller varieties, and 5 feet for the larger sort. For pickling, sow from middle of June to last of July. Manure with ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot, plaster or in-slaked lime to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.



IMPROVED BALTIMORE WHITE SPINE.



EARLY FORTUNE CUCUMBER.



JERSEY PICKLING.

This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers, around Baltimore and Norfolk, as well as the growers from Virginia to Florida. **Pkt., 5c. Oz., 10c.** 34 **lb., 40c. Lb., \$1.25.**

IMPROVED BALTIMORE

WHITE SPINE

EXTRA EARLY WHITE SPINE.—A strain of White Spine-which has been improved through careful selection, with a view to use for forcing in hothouses and frames; also ele-gant for field culture. Our stock produces handsome, dark-colored fruits, which retain their color longer than other sorts. **Pkt., 5c. Oz., 10c.** 1/4 lb., 40c. Lb., \$1.25.

ARLINGTON WHITE SPINE.—A favorite extra early variety, of desirable size, handsome shape, dark green color, holding its color longer than most others. Good shipper and sells well. **Pkt., 5c. Oz., 10c.** ¹/₄ **1b., 40c. Lb., \$1.25.**

EARLY FORTUNE CUCUMBER.—One of the earliest and best dark green White Spine Cucumbers. Ex-tremely early, and beautiful shape. Good for market gardeners, truckers or private family; in fact, any one who likes a dark green white spine cucumber it cannot nelp but please. Fine for Southern growers, as it stands shipping remarkably well. **Pkt., 5c. Oz., 10c. 1**/4 lb., 40c. 1/2 lb., 65c. Lb., \$1.25-

JERSEY PICKLING.—This is the most popular sort with the market gardeners around Baltimore and Phil-adelphia for pickling. Said to green better than any variety. Pkt., 5c. Oz., 10c. 1/4 lb., 30c. Lb., \$1.00.



IMPROVED LONG GREEN.

MPROVED LONG GR

The skin is of a deep green, and the flesh is solid, crisp and of fine quality. We have the very best strains of this variety and recommend it as much the best cucumber of all, and the variety every one should plant. The best known and most popularvariety for general use. Is vigorous and productive, and forms fruit fit for use almost as early as the shorter varieties. The mature fruit is almost 12 inches long. Pkt., 5c, Oz., 15c. 1/4 1b., 35c. Lb., \$1.25,

CHICAGO PICKLING.

Very Popular with Chicago Market Gardeners, and Extensively Grown in That Vicinity.

Fruit medium length, pointed at each end, with very large and prominent spines: color deep green. Pkt., 5c. Oz., 10c. 1/4 1b., 30c. Lb., \$1.00.

BURR, OR WEST INDIA GHERKIN.

An extremely small fruited variety, grown exclusively for pickles. It has no value for slicing. Is very prickly, but tender and crisp if picked when young. Seed germinates slowly. Pkt., 5c. Oz., 20c. 1/4 1b., 60c. Lb., \$2.00.

LONG GREEN TURKEY.

A very showy and excellent sort. Pkt., 5c. Oz., 10c. 1/4 1b., 35c. Lb., \$1.25.

CUCUMBERS---CONTINUED

Early Green Prolific

A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and of fine quality when sliced for the table.

Pkt., 5c. Oz., 10c. 1/4 lb., 30c. Lb., \$1.00.

Ever-Bearing Cucumber

This variety is unique, and will prove valuable both for the table and for pickling. Is of small size, very early, enormously productive and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.

Pkt., 5c. Oz., 10c. 1/4 lb., 40c. Lb., \$1.25.

CUMBERLAND

A new and distinct variety. Said to have originated from crossing the Parisian Pickling and the Early White Spine. It certainly has the good qualities of each of these sorts. The fruits are large, symmetrical, dark green, covered with innumerable small white spines, and are of prime quality for slicing. The vine is vigorous, wonderfully prolific, and continues in bearing much longer than most sorts.

Pkt., 5c. Oz., 10c. 1/4 lb., 40c. Lb., \$1.25.

EARLY CLUSTER

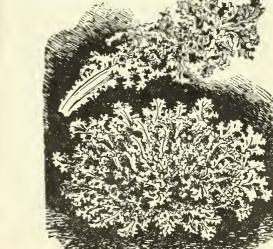
A short, prickly variety, bearing in clusters near the root. A good bearer. Pkt., 5c. Oz., 10c. 1/4 lb., 40c. Lb., \$1.25.

JAPANESE CLIMBING CUCUMBER

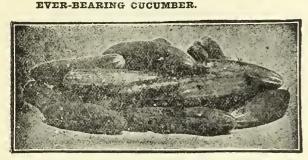
It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight, from 12 to 16 inches in length; the Cucumbers are thick, tender and of delicate flavor; flesh white, skin dark green, turning to brown, and netted when ripe. **Pkt., 10c. 0z., 15c.** ¹/₄ **lb., 40c.**

TELEGRAPH (English Forcing)

Should be grown in hotbeds where the temperature does not fall below 65 degrees at night. **Pkt.**, 25c.



GREEN CURLED ENDIVE.



EARLY GREEN PROLIFIC.

EARLY CLUSTER CUCUMBER.

GREEN CURLED ENDIVE

Is One of the Best Salads for Fall and winter Use. One Ounce of Seed to 150 Feet of Bow.

For early use, sow as soon as the ground can be worked in the spring, in drills 15 inches apart, and then thin plants to 6 or 8 inches in the row. To blanch the leaves, gather them carefully together when perfectly dry and tie them with matting or soft fibrous material. Another method is to invert flower pots over the plant. The leaves are very highly esteemed for use as salads.

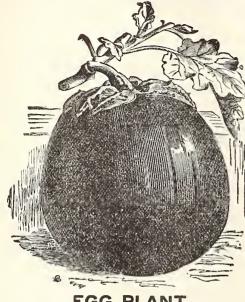
GREEN CURLED

The best sort in use. Useful as a salad, and also used for garnishing.

Pkt., 5c. Oz., 15c. 1/4 lb., 40c. Lb., \$1.25.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BALTIMORE



EGG PLANT

EGG PLAN

CULTURE.—Sow the seed in hot-beds early in March. When three inches high pot the young plants, using small pots, and plunge them in the same bed so that the plants may become stocky. They can be planted out from the pots when the season becomes sufficiently warm in May or June, or they can be transplanted into a second bed to make them strong until the weather is warm enough to transplant about three feet apart each way in thoroughly-worked and well-enriched soil. Draw the earth up to the stems when about a foot high. Egg Plant Seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore, repeated sowings are sometimes necessary. Care should be observed in cutting the fruit so as not to disturb the roots of the plants. One ounce will produce about 1000 plants. plants.

plants. BLACK BEAUTY EGG PLANT.—The earliest of all large fruited Egg Plants, and produces fruit quite as large as the NEW YORK PURPLE in 10 days' less time. The fruit is symmetrical in shape, of uniform size, of a dark rich purple color, which does not fade or change to lighter color at blos-som end like some other varieties. Just the variety for the market gardener and trucker for early spring trade. Pkt., 10c. 0z., 45c. ¹/₄ lb., \$1.75. Lb., \$6.50.

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One Ounce of Seed Will Sow a Drill of About 200 Feet.

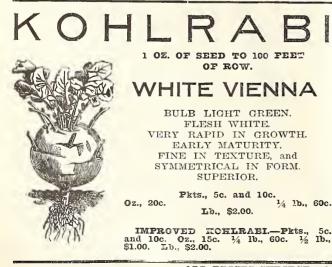
The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September and protect during winter. It must also be sown in April or May for later use.

DWARF GREEN GERMAN KALE.—This variety sow in September broadcast, and gather in early spring, like spinach. It may also be sown early in the spring for later use. **Pkt., 5c.** ½ **Lb., 20c. Lb., 75c.**

EXTRA CURLED NEW AMERICAN KALE.—This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety. Pkt., 5c. 1/4 Lb., 20c. Lb., 75c.

NEW IMPERIAL CURLED LONG-STANDING KALE.—Pkt., 5c. 02., 10c. ½ Lb., 20c. Lb., 75c.

NORFOLK.—A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled. Pkt., 5c. Oz., 10c. 1/4 Lb., 50c. Lb., \$1.50.



P EXTRA CURLED NEW AMERICAN KALE.



plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled as Asparagus,

EXTRA LARGE MAMMOTH. --- A large and strong plant; hardy. The best variety for general culture.

Pkt., 5c. Oz., 20c. 1/4 Lb., 70c. Lb., \$2.50.

MUSSELBURGH .- Oz., 20c. 1/4 Lb., 70c. Lb., \$2.50.

LARGE ROUEN.-Phts., 5c. and 10c. 02., 20c. 1/4 Lb., 70c. Lb., \$2.50.



5c.

1/2 lb.,



LETTUCE

Lettuce requires a rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid the growth, the better the quality. Some varieties are pe-culiarly adapted for early cutture, others for summer growth.

G. & T. GO.'S WHITE SEED SUMMER LETTUCE

The Best Summer Lettuce Ever Introduced.—This variety, introduced by us recently, has exceeded our expectation. Those who purchased it were delighted with their crops, and came back for more seed. This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. We expect this sort to grow in favor wherever known. It has a beautiful green color; head solid; light leaves, nicely crink-led; very tender, and of most excellent flavor. Pkt., 5c. 0z., 20c. 1/4 Lb., 40c. Lb., \$1.25.

G. & T. CO.'S SUMMER LETTUCE (Black Seed).

This Lettuce is becoming very popular among gardeners for summer use. It produces a splendid large, solid head, of the Cabbage type, remaining a long time in prime condition with-out going to seed; in fact, it is often necessary for the seed growers to slit open the head in order to allow the seed stalk a chance to develop. It is of a light green color, fine quality, crisp, tender, and nearly every plant will make a fine, solid head in the hottest weather, when other varieties refuse even to grow. **Pkts.**, 5c. and 10c. **Oz.**, 20c. ¹/₄ **ib.**, 40c. **Lb.**, \$1.25.

IMPROVED NEW YORK, OR "WONDERFUL."

Plants of extra large growth, producing heads of immense rize under favorable conditions. Inner portion is beautifully blanched and stands for a considerable time before running to seed. Outer leaves a deep, rich green. Pkts., 5c. and 10c. z., 20c. 1/4 Lb., 70c. Lb., \$2.50.

CALIFORNIA CREAM BUTTER LETTUCE.

This is fairly well known, and has given good results with by growers. **Pkts.**, 5c. and 10c. 0z., 20c. 1/4 lb., 40c. Lb., 01.25.

MAY KING

A very early new variety, forming fine hard heads within a few weeks after planting. It is medium sized, light green, with buttery but crisp heads. There is just a faint tint of brown on the head. We have had no end of praise from our friends and cus-tomers who have tried this variety. It is essentially a spring sort, and does well all summer. Being of rapid growth and quick heading, it is especially recommended for home garden, and is universally esteemed. **Pkt., 5c. Oz., 15c.** ¹/₄ **Lb., 40c. Lb., Cl.25.** and is uni Lb., C1.25.

"ICEBERG" LETTUCE.

The heads are large, crisp, solid and tender. Pkts., 5c. and c. Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25. 10c.

EARLY PRIZE HEAD (Seed White)

A large, clustering, non-heading lettuce, most excellent for the home garden and undoubtedly the most easily grown va-riety in cultivation. It is too tender, however, to stand ship-ping or handling on the market. The leaves are finely curled and crumpled, bright green tinged with brownish red, and are very crisp, tender and sweet. Pkt., 5c. Oz., 15c. 2 Oz., 25c. 1/4 lb., 40c. Lb., \$1.25.

EARLY WHITE CABBAGE, OR BUTTER.

A broad-leaved, vigorous-heading sort; white, showy and de-rable. Pkt.. 5c. Oz., 20c. 1/4 lb., 40c. Lb., \$1.25. sirable.

EARLY CURLED SIMPSON.

Black seed. Very early; excellent for salads; forms a com-pact mass of leaves. Pkts., 5c. and 10c. Oz., 20c. 1/4 lb., 40c. Lb., \$1.25.

TENNIS BALL.

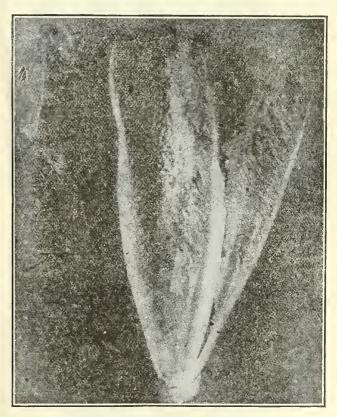
Black seed. A favorite forcing variety; a very hard head. Pkts., 5c. and 10c. Oz., 20c. 1/4 lb., 40c. Lb., \$1.25.

ROMAINE OR WHITE PARIS COS

The best of the Cos or celery varieties. Forms a large light-green plant with the head well folded and quite solid. Cos lettuce is also called Romaine, and is very popular with our foreign population, for it is highly prized in England and France, while little known to our own people. Pkt., 5c. Oz., 15c. 1/4 Ib., 40c. Lb., \$1.25.



U. S. SUMMER LETTUCE.



ROMAINE, OR WHITE PARIS COS LETTUCE.

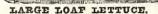
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

LETTUCE---Continued BALTIMORE CABBAGE LETTUCE

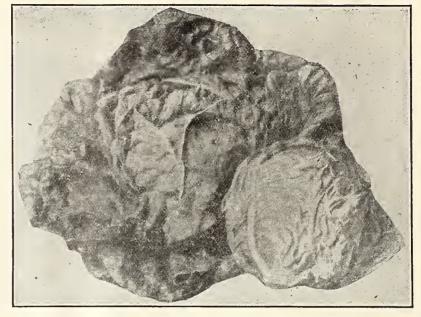
BALTIMORE CABBAGE LETTUCE G. & T. CO.'S TRUE STOCK. Targe Heads, Beautiful Heads, Solid Heads; Stands Heat Well. Best of all for TALL PLANTING. This new Lettuce, which we introduced a few years ago, and claimed to be one of the best ever put on the market, and which produced such a sensation among the large growers who tried it, still holds a high place among lettuce. As soon as the grow-ers discovered its merits they came for more seed, and recommended it to all their friends; these, in turn, were delighted with their crops, as the result more than justi-fed all we claimed for it. A grower at Gardenville, Md., says: "I had 2000 heads of your Baltimore Cabbage Lettuce, and they all headed but one; they are slow to run to seed." The heads are large and solid; color pretty light green, and very slow to seed. in fact, it is just what the truckers and gardeners want. A large truckers in New Jersey writes: "The Bal-timore Cabbage Lettuce I had of you was certainly very fine." Ptst, 5.c. and 10c. 0.7.20. 'A' h. 40. The slow to truckers and baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not ac-

gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not ac-quainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is un-surpassed for frame use, and is also an ex-cellent outdoor lettuce for fall or early spring









BALTIMORE CABBAGE LETTUCE.

MAMMOTH BLACK-SEEDED BUTTER LETTUCE.

A strain of large, smooth-leaved, head lettuce, forming very large, solid cabbage-like heads of thick, brittle leaves, the inner ones becoming very white, tender and fine flavored. Pkts., 5c. and 10c. Oz., 20c. ½ 1b., 40c. Lb., \$1.25.

BALTIMORE OAK LEAF.

This lettuce will resist the heat of summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it. Pkts., 10c. 0z., 20c. ½ lb., 50c. Lb., \$1.50.

BIG HEAD LETTUCE.

The "Big Head" is certain to please market gardeners and truckers, because it always produces large, salable heads. It is very solid and crisp, of tender quality, which makes it at-tractive. Fkts., 5c. and 10c. Oz., 20c. ½ Ib., 40c. Lb., \$1.25.

HANSON.

A variation of the Indiana, forming a half-closed head. Pkts., 5c. and 10c. Oz., 20c. ½ 1b., 40c. Lb., \$1.25.

BOSTON MARKET.

White seed A celebrated variety in New England, of good heading habit; small, early and compact; quite desirable. Pkts., 5c. and 10c. Oz., 20c. 1/4 lb., 40c. Lb., \$1.25.

GRAND RAPIDS. This variety is largely grown for shipment, and is consid-ered by many the best loose-headed Lettuce for forcing under glass. Leaves medium size, of light, yellowish green color, much crimpled and frilled, thin, but of very upright growth; crisp, tender and of good quality. Owing to its upright habit, it may be planted very closely. It is of extremely rapid growth; not very liable to rot; will stand without spoiling a week to ten days after it is fit to cut, and retains its freshness a long time after cutting. a long time after cutting. Pkts., 5c. and 10c. Oz., 20c. ¹/₄ lb., 40c. Lb., \$1.25.

DEFIANCE. Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm they have to be cut open to allow the flower heads to come through. Pkts., 5c. and 10c. Oz., 20c. 1/4 lb., 40c. Lb., \$1.25.

SALAMANDER (Black Seed). An excellent sort for spring or summer use; forms good-zed heads of excellent quality. Pkts., 5c. and 10c. Oz., 20c. ¼ 1b., 30c. Lb., \$1.00. sized

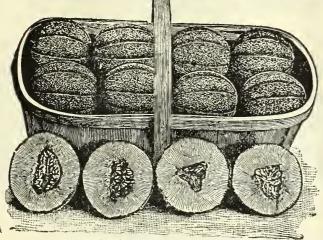
BIG BOSTON. The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either, for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

CULTURE.—One ounce of seed to 50 hills. Sow about the last of spring or the first of summer in hills of light, rich, sandy soil, 4 feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence. CULTURE One ounce of seed to 50 hills. Sow about

GRIFFITH @ TURNER CO

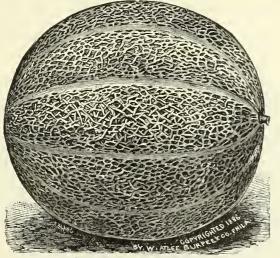
NEW MARYLAND CANTA-LOUPE .- The latest acquisition to our collection of muskmelons. It is earlier, larger and cuts better than the Rocky Ford. Flesh is green, of fine flavor and heavily netted, making it the most attractive melon on the market. A sure moneymaker. Our truckers around Baltimore will have no other after planting our New Maryland. Pkt., 5c. Oz., 15c. 1/4 lb., 40c. Lb., \$1.25.



Muskmelon

NEW MARYLAND

ROCKY FORD CANTALOUPE.



BALTIMORE NUTMEG.

EMERALD GEM.

EMERALD GEM. Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appear-ance is not attractive, but try it, and you will want it again. Pkt., 5c. 02., 10c. ½ 1b., 35c. Lb., \$1.00. OSAGE, OR MILLER'S CREAM. Most delicious. The flesh is a rich salmon color, very thick, sweet and rich; rind very thin and finely netted. Pkt., 5c. 0z., 10c. ½ 1b., 35c. Lb., \$1.00.

ROCKY FORD MELON

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the **Rocky** Ford region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high-flavored flavored.

We have an exceptionally fine stock of this variety grown om choice selected specimens. **Pkt.**, 5c. 02., 10c. 1/4 1b., from choice sel 35c. Lb., \$1.00.

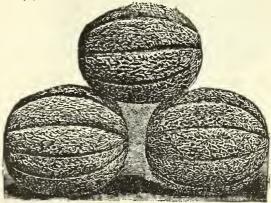
Baltimore Nutmeg Cantaloupe

The Old Standard Variety That Has Found Favor Wherever Grown.

The stock seed of this splendid melon was secured from a The stock seed of this splendid melon was secured from a trucker who enjoys the reputation for raising the finest Canta-loupes that come to the Baltimore market. The writer also tested the fruit, and found it to be of excellent flavor. It is green-fleshed, and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore, Washington, Norfolk and other places—in fact, it is a leading sort all over the country. **Fkt., 5c. Oz., 10c.** 14 **1b., 35c. Lb., \$1.00.**

IMPROVED JENNY LIND.

A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. A market gardener having this sort for sale would in a short time have no difficulty in disposing of all he could raise. **Pkt., 5c. Oz., 10c. 14 Ib.**, **35**. The SI 00. Lb., \$1.00. 35c.



EARLY NETTED GEM.

EXTENSIVELY grown, and many prefer it to all others for table use. Grows remarkably uniform; thick meated; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and ex-tra early in ripening; will keep for nearly a week after pick-ing, and is especially suited for shipping in baskets or crates. **Pkts., 5c. and 10c.** ¹/₄ lb., 35c. **Lb., \$1.00**.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

MUSKMELONS--CONTINUED KNIGHT CANTALOUPE **A NEW EARLY CANTALOUPE OF SUPERB OUALITY AND AT THE SAME TIME MAKES AN EXCELLENT MARKET OR SHIPPING MELON**

This new Cantaloupe has been grown in Anne Arundel county for the past several years, and has created a furore with our truckers, on account of its earliness, productiveness, uniformity in shape and appearance and its fine table qualities. It matures about a week earlier than the regular Rocky Ford, is larger in size and makes a most attractive and salable melon. It has thick, green flesh, shading to orange at the center. The fruits are oblong in shape, well ribbed and well netted. It is a leader, both for planting for home use and market and for shipping. Its early maturity, together with its fine qualities, are strong points in its favor. Pkt., 5c. Oz., 15c. 1/4 lb., 40c. Lb., \$1.25.

PAUL EOSE.—In this new sort are combined all the good qualities of the Netted Gem and the Osage, the varieties from which it originated. The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange-red color, like that of the Osage, but even sweeter and higher flavored, retaining its good qualities quite to the rind. We think it really has no equal as a market melon for professional melon-growers, and it is one of the very best sorts for the home garden. **Pkt.**, 5c. Oz., 10c. ¹/₄ Lb., 35c. Lb., \$1.00.

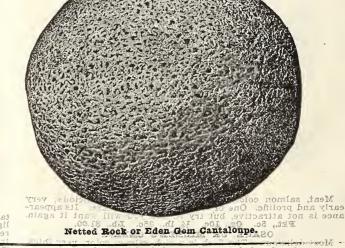
ANNE ARUNDEL CANTALOUPE

(Original Stock.)

This handsome melon, introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel county, Maryland. This county is justly celebrated as growing the finest Cantaloupes in the country. We might almost say the finest in the world. Knowing its value, we selected the stock and placed it before our cus-tomers. It has met every promise we made for it upon its introduction. **Pkt., 5c. Oz., 10c.** ¹/₄ Lb., 35c. Lb., \$1.00.

EDEN GEM OR NETTED ROCK

One of the handsomest melons in our list. Splendid shape and thorough One of the nanasomest meions in our list. Splendia shape and thorough netting and absence of deep spaces between the ribs, indicating strong shipping properties. The flesh is unusually thick, the seed cavity very small, the flavor exquisite. A heavy yielder, the melons very uniform, but few run too large, and still fewer too small. For shipping we recommend it highly; also for home growers. **Pkt., 5c. 0z., 10c.** ½ **Lb., 40c. Lb., \$1.25.**



sweet and rich; rit .SEE .di ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE. d very the Oz., 10c.

ALL FRICES SUBJECT TO CHANGE WITHOUT NOTICE.

NORFOLK BUTTON

An improved strain of Early Jenny Lind, hav-ing a nub or button on the blossom end, which gives it a distinction over all other varieties. It is very early, of remarkably fine texture and de-licious flavor, and produces fruits of the finest quality. It is extra fine for both home and market use. We are putting the above on the market for the first time, and have but a limited supply of seed. Those who wish to secure a trial order will do well by placing their order at once. Pkts., 5c. and 10c. 1/4 Lb, 35c. Lb., \$1.00.

EXTRA EARLY HACKENSACK Netted green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier, than the Old Hackensack. Pitt. 5c. Oz., loc. 54 Lb., 35c. Lb., \$1.00. DOG ISLAND BEAUTY-Pit., 5c. Oz., 15c. 4 Lb., 35c. uborg very belter vibility bra. bedder egula

Rb., \$1.00.

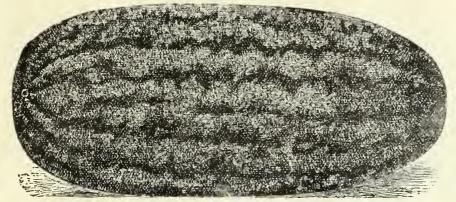


PAUL ROSE

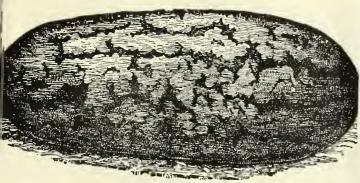


KNIGHT CANTALOUPE

WATERMELONS



LORD BALTIMORE.



FLORIDA FAVORITE.

CULTURE .- One ounce of seed to 30 hills. Watermelons require a rich, sandy soil for best development. Culti-vate the same as for cantaloupes, except that the hills should be eight or ten feet hills. apart.

Lord Baltimore

It is very early, of oblong shape, and the flesh is of handsome crimson color, deliciously wweet and extending close up to the rind. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultiess color, fine texture and excellent flavor combine to make it one of the very best melons that grows. It is a good shipper, and beats all others as a seller.

Pkt., 5c. Oz., 10c. 1/4 Lb., 25c. Lb., 90c.

FLORIDA FAVORITE

This we consider one of the richest and sweetest flavored melons grown, of medium size and prolific. The best of all for family garden. It is now vory popular with the truckers and melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets. Pkt., 5c. Oz., 10c. ¹/₄ Lb., 20c. Lb., 75c.

McIVER'S SUGAR WATERMELON.

In outward appearance it somewhat resembles the old Rattle-snake. The quality is much superior. It is an extremely pro-ductive and hardy variety.

Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 75c.

FORDHOOK EARLY.

This is a very early variety, growing to a good size; color, medium green; form, nearly round; seeds, white; flesh, bright. red and very sweet. Pkt., 5c. Oz., 10c. ¹/₄ Lb., 20c. Lb., 75c.

BLACK BOULDER.

It is enormously productive, reaching a mammoth size, with rich, dark green skin. It cuts equal to any melon we have ever eaten, and its shipping qualities are phenomenal, no other melon equaling it in tough skin and rind; in this respect even superior to the Kolb Gem. Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 75c.

DARK ICING.

An extra early and extra good melon for home use and nearby market. One of the most delicious of melons; rich red and sugary to the very thin rind. Pkt., 5c. Oz., 10c. ¹/₄ Lb., 20c. Lb., 75c.

TRIUMPH WATERMELON

Is very prolific, very early and of uniformly large size. The rind, like Duke Jones, is of dark green color; the seed is ex-actly the same color as that of Kolb Gem. Pkt, 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 75c.

GRAY MONARCH. OR LONG WHITE ICING. This distinct melon is without a doubt one of the largest of all, frequently attaining a weight of 70 pounds and over. The skin is a motified gray color, shape long, flesh bright crimson, and of sweet, delicious flavor. It is also a fine shipper, carry-ing well long distances and bringing very high prices. Pkt., 5c. Oz., 10c. 1/4 lb., 25c. Lb., 20c.

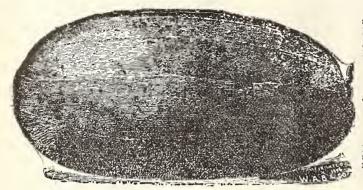
DUKE JONES WATERMELON

In shape the **DUKE JONES** reser, bles very closelv the Kolb Gem. The rind is darker green in color, with indistinct irregu-lar stripes of dark and light green alternating; in general ap-pearance it is a dark green melon. It averages very arge in size, comparatively no small melons; is very productive; it is also very early in maturing. **Pkt., 5c. Oz., 10c.** 1/4 Lb., 20c. Lb., 75c.

DUKE JONES.

Tall Contract Contract of Contractor

WATERMELONS--- CONTINUED TOM WATSON (NEW)



A recent introduction. A large oblong melon, dark green skin, with thin, tough rind, which gives it excellent ship-ping qualities. Melons are produced from 18 to 24 inches long and from 8 to 12 inches in diameter. Flesh, deep red, crisp, melting and of the finest flavor. Heart large, with little or no core. One of the best eating melons known. **Pkts., 5c. and 10c.** 1/4 Lb., 20c. Lb., 75c.

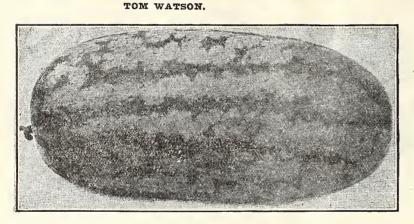
RATTLESNAKE WATERMELON.

Large, oblong, striped and mottled; flesh bright red; a good shipper; a favorite variety in the South. Pkts., 5c. and 10c. 1/4 Lb., 20c. Lb., 75c.

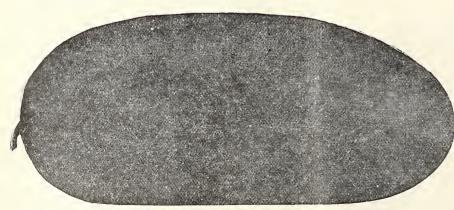
DIXIE.

30

It is earlier and larger than the well-known and popu-lar Kolb Gem, and in color a darker green, with beautiful stripes, making it one of the handsomest melons on the market. Flesh deep red, sugary and melting. Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 75c.



GEORGIA RATTLESNAKE.



NEW WATERMELON-"IRISH GREY."

SWEETHEART.

An entirely distinct and handsome new Watermelon. Vine vigorous and productive, ripening early. Fruit large, oval, very heavy, uniformly motiled light and dark green. Flesh bright red, solid and very sweet.

Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 75c.

RLECKLEY'S SWEETS.

Skin dark green, thin rind, ficsh scarlet, very solid, firm and most luscious quality for the home market or family garden. It is decidedly one of the best.

Pkt., 5c. Oz., 10c. 1/4 1b., 30c. Lb., 90c. BLUE GEM.

BLUE GEM. This splendid Melon resembles the Kolb Gem in shape, and is one of the very best shippers and table melon; is of a dark bluish color, with small gravish stripes. Is much superior to the Kolb Gem. Very pro-ductive, and is handsome and showy. A grower in Dixle (Georgia) says: "If you want a shipper that will go around the world, you can safely select the BLUE GEM." Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 75c.

KOLE'S GEM .- This is one of the argest, most productive, best keeping 'argest, most productive, best keeping and best shipping watermelons grown. Sells readily at the highest market prices. In fact, it is so well known that it speaks for itself. Our stock of this comes direct from the original grower. Special prices on large quantities.

Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 75c. BLACK STRIPED KOLB GEM WATERMELON .- The size of this fruit is uniformly large; shape, oval; color, a rich dark green, with fine stripes of lighter shade; much darker and richer than the old well-known **Kolb Gem.** The exceptionally strong rind makes it an excellent shipper.

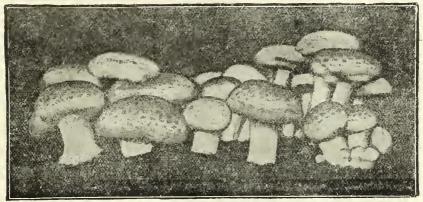
Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 75c. CITRON-For Preserves. Fruit round and handsome. Used in making preserves only.

Pkts., 5c. and 10c. 1/4 1b., 35c. Lb., \$1.00.

varieties. Fine flavor, red to rind, dark tough skin; long keeper and excellent shipper.

Pkt., 5c. Cz., 10c. 1/4 Lb., 30c. Lb., \$1.00.

GRIFFITH @ TURNER CO ENGLISH MILL TRACK MUSHROON SPAWN



Lb., 25c. By Mail, 30c. Lb., Postpaid. 10 Lbs., \$2.50. 100 Lbs., \$20.00, by Freight or Express.

CULTIVATION

The cultivation of the Mushroom is a very simple matter and requires only ordinary intelligence and care. The mate-rials needed are fresh horse manure, good soil and live spawn. The manure should not be too short, as it does not com-bine the necessary qualities. Long strawy litter, plentifully mixed with short manure, makes by far the best beds, as it does not heat too violently, decomposes slowly and retains its heat for a long period. Put in a heap and turn every three or four days to permit the escape of noxious gases and prevent burning. When ready for use it should be as hot as can be borne comfortably by the hand, and should also be moist. Make the beds 3 feet wide at the base, 2½ feet high, and of any desired length. The manure, when in proper condition, should be quickly handled to prevent the loss of heat, and be beaten down to make the heap firm and compact, and covered with long litter. The bed should within a few days warm to a temperature of 110 to 120 degrees. Never spawn a bed when the heat is rising, but always on the decline and under 90 degrees. Have a ground thermometer, and keep it plunged in the bed; by pulling it out and looking at it you can ascertain exactly the temperature of the bed. Should the temperature not exceed 100 or 110 degrees, no alarm should be felt, for if the manure was fresh it will likely produce a good crop. When the heat has decreased to 90 degrees, the bed is ready to receive the spawn, which is done by raising the manure with the hand and inserting pieces of spawn 2 inches square and 9 inches apart each way. At the expiration of a few days the bed may be covered with soil to the depth of about 2 inches. If in a closed cellar or mushroom house, wait about ten days, but if in open shed five days for use. Two pounds of spawn are sufficient for a bud 2 fact by 6 feet

Two pounds of spawn are sufficient for a bed 3 feet by 6 feet. Mushrooms can be readily grown in cellars, stables, sheds or pits. Many are successively grown on a shelf in an ordi-nary cellar, and yield sufficient crops to compensate the grower for his effort. The space under greenhouse benches or stag-ings will suit them exactly, using materials in the same manner as described.

MUSHROOMS ON PASTURE LAND OR LAWN.

About the first of June take pieces of spawn an inch square and lift the sod with a trowel or spade just sufficient to get a spawn under it, and then press the soil down hard. Set the spawn 1 to 2 feet apart. In a favorable season a crop may be expected in 3 or 4 months from the time of planting.

OKRA, OR GUMBO



Select warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use. use.

DWARF OKRA.

This is the preferred kind with the growers; is of dwarf habit and very productive. **Pkt.**, 5c. **Oz.**, 10c. ¹/₄ Lb., 20c. Lb., 60c.

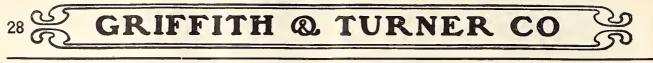
WHITE VELVET.

It is very distinct, and the pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt., 5c. Oz., 10c. 1/4 Lb., 20c. Lb., 60c.

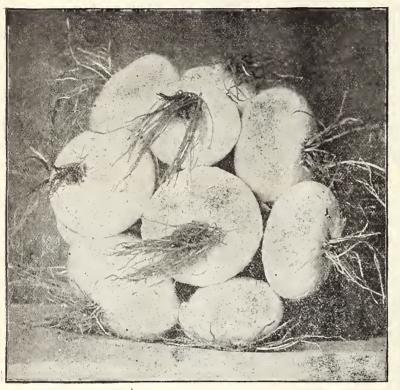


ONION SETS



ONION SEED

CULTIVATION TO GROW LARGE ONIONS FROM SEED.—The seed should be sown as early as possible in the spring, as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large onions. THE NEW ONION CULTURE.—Sow the seed in hotbed and transplant early as possible to open ground. They can be grown very successfully by this plan.



WHITE S. S. ONION.



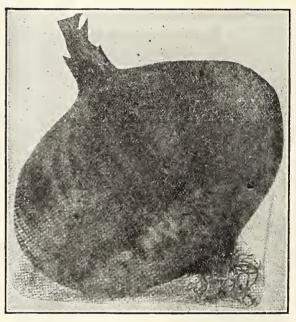
YELLOW DANVERS ONION.

WHITE SILVERSKIN, or PORTUGAL.—A good variety for family use, skin and flesh pure white, mild flavor and flat shape. The best white onion to grow largely for sets. Pkts., 5c. and 10c. Oz., 20c. ¹/₄ Lb., 60c. Lb., \$2.25.

WHITE PEARL CNION.—Earliest of all, growing with all the rapidity of a summer radish. Pearly white, waxy and transparent. Form flat and broad, flavor very mild, and it can be eaten raw almost like an apple. On rich soil it will grow very large. This is an elegant sort to sow for large onions, because of its rapid growth and fine quality. Pkt., 5c. Oz., 25c. ¹/₄ Lb., 90c. Lb., \$3.00.

AUSTRALIAN BROWN—A Valuable Long-Keeping Onion.—This new Onion, introduced into the United States a few years since, has met with wonderful success, and is pronounced the best keeper of all onions. The outside skin is of a deep amber brown, distinct from all other onions, extremely hard and firm, of fine flavor, and will keep almost indefinitely. Australian Brown is the only onion Australian growers will plant. Pkts., 5c. and 10c. Cz., 20c. 14 May, 60c. Lb., \$200.

WETHERSFIELD LARGE RED. — Well-known and favorite sort. A large yielder and good keeper. Pkt., 5c. Oz., 20c. 1/4 Lib., 60. Lib., \$2.00.



YELLOW DUTCH, or STRASBURG.

YELLOW DUTCH, or STRASBURG. — The most popular and best variety for set purposes. Is similar to the Yellow Danvers. Flat in shape, color and size, but as a set onion it has the quality of ripening down earlier and more uniformly. Pkt., 5c. Oz., 20c. ¹/₄ Lb., 50c. Lb., \$1.75.

YELLOW GLOBE DANVERS.—A very handsome, round, yellow onion; a large yielder and splendid keeper; the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large onions. Pkt., 5c. 0z., 20c. 1/4 Lb., 50c. Lb., \$1.90.

YELLOW FLAT DANVERS.—A good onion, both for the home garden and for market—combining reliability in ripening with large yield. It ripens more surely in moist locations than do the globe-shaped varieties, as well as earlier. The thin-necked flattened bulbs are quite thick through: light yellow skin; fine-grained, mild, white flesh. Pkt., 5c. Oz., 20c. 1/4 Lb., 50c. Lb., \$1.75.

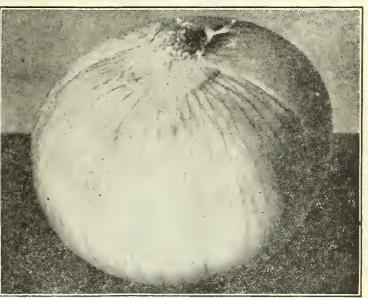
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

ONIONS--CONTINUED

PRIZE-TAKER.—This is the large, beautiful onion that is seen every fall offered for sale at the fruit stores in Baltimore and other large cities. It has a rich straw color, and is of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prize-taker a favorite variety for salads. By sowing this sort early you can raise a large crop of large onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick. Those of our grow-ers who have tried this variety have had remarkably fine success. **Pkt., 5c. Oz., 20c, ¼ Lb., 60c. Lb., §2.00.** \$2.00.

PARSNIP

The Parsnip will nourish best and give the longest, largest and smoothest roots in a very deep, rich soil —one that has been made rich from manure the previous year. Fresh manure makes the roots some-what ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to five or six inches apart.



PRIZE-TAKER ONION.

GIANT CURLED.—Highly esteemed in the South, where the seed is sown in the fall and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of greater breadth, forming enormous bunches. Pkt, 5c. 02., 10c. ½ Lb., 15c. Lb., 50c. WHITE MUSTARD.—¼ Lb., 10c. Lb., 30c.



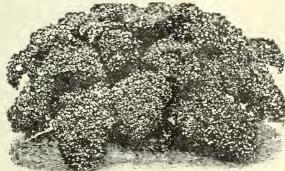
NASTURTIUM

Plant in May, the climbing va-rieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

TALL.—Pkt., 5c. Lb., 35c. Lb., \$1.00. 5c. Oz., 10c. 1/4

DWARF.-Pkt., 5c. Oz., 10c. 1/4 Lb., 40c. Lb., \$1.25.

SELECT rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in germinating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



DWARF EXTRA CURLED. - The most beautiful and valuable variety in use; handsome bright green color; finely crimped, beautifully curled.

Pkt., 5c. Oz., 10c. 1/4 Lb., 25c. Lb., 80c.

MOSS CURLED .--- A very select crimped variety.

Pkt., 5c. Oz.. 10c. ¹/₄ Lb., 25c. Lb., 80c.

HOLLOW CROWN OR SUGAR

OW CROWN

MPROVED

The Hollow Crown is su-perior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country. Pkts., 5c. and 10c. ½ Lb., 20c. ½ Lb., 30c. Lb., 60c.





U. S. FOOD ADMINISTRATION LICENSE No. G 22972.

NOTICE .- In ordering Peas to be sent by mail, please add 6c. per pound to pay postage. For larger quantities see table on page 1.

The dwarf varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the rich-ness of the land that was previously in good condition. Plant the dwarf in rows two feet apart; those varieties attaining a height of from two to three feet in rows three feet apart, and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.

G. & T. Co.'s First Early Peas

(In Sealed Bags, Thoroughly Rogued and Hand-Picked.)

This is the earliest of all and the most profitable early market Pea, be-cause of its early maturity, uniformity of growth, and ripening and its productiveness. It ripens up so evenly as only to require about two pick-ings to secure the crop. It is grown from selected stock, under our own supervision, and the greatest care is exercised to keep it up to the highest standard of quality. It is a great favorite with the truckers, and is largely used by private families. Our sales of this sort increase annually-**Pint, 30c. Quart, 50c. Peck, \$2.75. Bushel, \$11.00.**

NEW LARGE PODDED ALASKA.—In general habit and growth re-sembles the well-known Alaska. Ripening about three days later, but with much longer and thicker pods. Handsomely shaped, of a beautiful dark green color, which is retained long after other varieties have lost their usefulness. The seed is somewhat wrinkled and dented. We strongly recommend this new Pea to gardeners, truckers and shippers as a most productive and large extra early variety. Pint, 30c. Quart, 50c. Peck, \$3.25. Bushel, \$13.00.

ALASKA.—Our best rogued and hand-picked stock. Height, 26 inches. The earliest Blue Pea; very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color. Pint, 25c. Quart, 50c. Peck, \$2.75. Bushel, \$11.00.

DEXTER (Genuine Stock).--Thoroughly rogued and hand-picked. Pint, 30c. Quart, 50c. Peck, \$2.75. Bushel, \$11.00.

RURAL NEW YORKER.—Height, 2½ feet. In maturity it is among the early varieties. Pint, 30c. Quart, 50c. Peck, \$2.75. Bushel, \$11.00.

FIRST AND BEST.—Height, 2¹/₂ feet. Grown with special care. Of the early varietie. Pint, 30c. Quart, 50c. Peck, \$2.75. Bushel, \$11.00. Óne

TRIUMPH PEAS .--- Pint, 30. Quart, 50c. Peck, \$2.75. Bushel, \$11.00.

PHILADELPHIA EXTRA EARLY PEAS .-- Pint, 25c. Quart, 50c. Peck, \$2.75. Bushel, \$11.00.

PEDIGREE EXTRA EARLY.—Introduced several years ago, has steadily increased in favor until now the truckers all want it. Early as Alaska, large pods, white seeded, very prolific. All mature at one time and can be gath-ered in one picking. **Pint, 30c. Quart, 50c. Peck, \$2.75. Bushel, \$11.00.**

Prolific Early Market

New. Recently introduced. The finest, largest and most prolific extra early variety. Larger than Alaska, nearly as early, quite as prolific. Handsome pods, which command the highest prices. Just the pea for the trucker, mar-ket gardener and family garden.

Pint, 30c. Quart, 50c. Peck, \$3.00. Bushel, \$12.00.

Large Podded Extra Early Sugar Variety

MARYLAND PRIDE PEAS.

Introduced by us last season for the first time, giving universal satisfaction to the market gardeners and shippers. Pods large, of a deep green color and nearly as early as Alaska.

Pint, 40c. Quart, 75c. Peck, \$5.00. Bushel, ----.

THOMAS LAXTON.

Habit and growth same as **GRADUS**, but pods are a deeper green color, square at the ends, having fine flavor.

Pint, 40c. Quart, 75c. Peck, \$5.00. Bushel, ----.

GRADUS, OR PROSPERITY-Pale Green Wrinkled.

The most attractive novelty of recent years. Large, handsome pods, well filled, r ipening with the earliest and of vigorous habit.

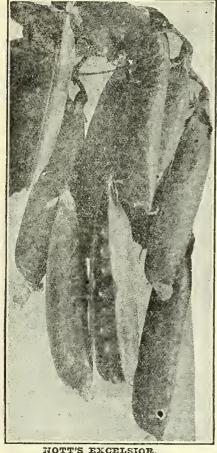
Pint, 40c. Quart, 75c. Peck, \$5.00. Bushel, -

MARYLAND PRIDE PEAS.

EXTRA EARLY ALASKA PEAS.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.





PFAS--Continued

UNITED STATES FOOD ADMINISTRATION LICENSE No. G 22972.

Dwarf Extra Early Variety NOTT'S EXCELSIOR

It is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are al-ways well filled with Peas, which in sweetness and quality have no superior. **Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, \$16.00.**

AMERICAN WONDER

Very luscious in flavor. Try it. Height, 12 inches. The earliest wrinkled Pea; very productive and sweet. Bette suited to the private than to the mar-ket garden. Pea;

Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, \$16.00.

PREMIUM GEM

Height, 15 inches. An improvement upon the Little Gem. A splendid wrink-led dwarf Pea; very luscious in flavor. Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, \$16.00.

McLEAN'S LITTLE GEM

Similar to Premium Gem, but more straggling in growth; pods not so well filled; height, 18 inches; seed, green, wrinkled. Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, \$16.00.

EARLY BIRD PEAS

Recently introduced. Hardy, prolific, early. Earlier than Alaska or First and est. Large podded and very prolific. Fine luscious flavor. Hardiness unsur-assed. Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, \$16.00. Best. passed.

Second Early Half Dwarf Wrinkled Varieties

GARDENER'S FAVORITE.

Height, 30 to 36 inches. A wrinkled variety named and introduced by us, and which is constantly gaining friends; of most delicious flavor; prolific bearer, specially suited for the market garden trade. It is also attracting considerable attention with some of our leading canners, as when packed they find the quality to be superior to any other sort. **Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, \$16.00.**

ADVANCER. Height, 2½ feet. A green wrinkled variety; introduced some years ago, and has always given satisfaction. Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, \$16.00.

EVERBEARING.

Vines are about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality. **Pt., 30c. Qt., 50c. Peck, \$4.00. Bu.,** —.

YORKSHIRE HERO.

Height, 2½ feet. A wrinkled variety; productive and of very superior flavor. Pt., 30c. Qt., 50c. Peck, \$4.00. Bu., ____.

SHEOPSHIRE HERO. A grand new second early wrinkled Pea, producing long, hand-some, well-filled pods in great abundance. Height, 2½ feet. Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, —.

ABUNDANCE.

Height, 30 to 36 inches. An excellent half-dwarf, medium early wrinkled variety; pods 3½ inches long, containing 6 to 8 large Peas of excellent quality. Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, —...

PRIDE OF THE MARKET.

A medium early dwarf Pea of vigorous habit and very pro-ductive The pods are large, of a medium green color, and con-tain 7 to 9 Peas of fine quality: 1½ feet high. Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, —...

HORSFORD'S MARKET GARDEN. Height, 2½ feet. A medium early wrinkled variety; highly recommended. Pt., 30c. Qt., 50c. Peck, \$4.00. Bu., \$16.00.

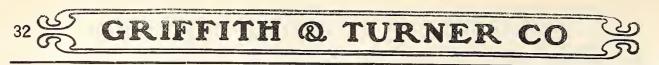
IMPROVED STRATAGEM. Height, 2½ feet. A large wrinkled blue Pea of excellent quality; very long, large filled pods. More regular in its growth than the ordinary Stratagem, and in every way superior. Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, —.

DWARF GREEN WRINKLED MARROW. An excellent new wrinkled variety. Large pods and very pro-ductive. Pint, 30c. Quart, 50c. Peck, \$4.00. Bushel, ----,



GARDENER'S FAVORITE.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.



--Continued

U. S. FOOD ADMINISTRATION LICENSE No. G 22972.

HEROINE PEAS.

MEDIUM AND LATE VARIETIES

HEROINE PEA.—A medium early, green, wrinkled Pea, and one of the best of recent introduction; large, curved, showy pods; an immense cropper; Peas of finest quality. Height, 2 to 2½ feet. **Pint**, 30c. Quart, 50c. Peck, \$4.00. Bushel, \$16.00.

CHAMPION OF ENGLAND .- Height, 4 feet. An old favorite, rich tlavored and very productive. Pint, 40c. Quart, 75c. Peck, ----. Eushel, ----

MELTING SUGAR (Edible Pods).—This variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad handsome light green pods, which a profusion of very large, broad handsome light are so brittle that they snap without any strings. *Pint*, 40c. Quart, 75c. Peck, —... Bus -. Bushel. -

TALL GRAY SUGAR (Edible Pods) .- Cooked in the pods same as Snap Beans. Pint, 40c. Quart, 75c. Peck, —. Bushel, —

DWARF GRAY SUGAR (Edible Pods) —Quite a favorite. Fint, 40c. Quart, 75c. Peck, —. Bushel, —.

TELEPHONE .--Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled. Pint, 40c. Quart, 75c. Peck, \$6.00. Eushel, -

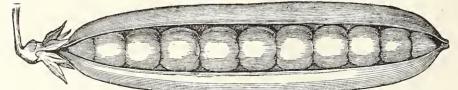
TELEGRAPH, or LONG ISLAND MAMMOTH. — Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance. Pint, --. Quart, ----. Eushel. -. Peck. -

IMPROVED SUGAR MARROWFAT PEAS (Genuine Stock).---Height, 3½ feet. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite. Fint, 25c. Quart, '50c. Feck, \$4.00. Bushel, \$11.00.

ADMIRAL DEWEY.—Here we have a most excellent Pea, with large, handsome pods; Peas of the highest quality. More dwarf than the Stratagem and about a week earlier in maturing, regular and uniform in growth; vines stocky, healthy and of vigorous growth; pods long, frequently containing 10 peas, of tender and delicious flavor. Don't fail to try it.

Pint, 40c. Quart, 75c. Peck, ----. Bushel, -

FRENCH CANNER.—Height, 3½ feet. The celebrated Pea used in France by the canners. It is wonderfully prolific, bearing an abundance of long pods, containing 7 to 9 peas of excellent flavor. Pint, 25c. Quart, 50c. Peck, \$4.00. Bushel, \$11.00.



IMPROVED SUGAR MARROWFAT PEAS.



A well assorted selection of the various kinds of herbs should have a place in every garden. Their value in seasoning and flavoring is well known and appreciated. Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance. Care should be taken to harvest on a dry day just before they fully blossom.

	Pkts.	Oz.	¼ lb.	Lb.				1/4 lb.	
ANISE	5c.	15c.			DILL				
BASIL					FENNEL (Sweet)				
BENE, use medicinally	5c.	15c.			LAVENDER				
BORAGE, excellent for bees					MARJORAM				
CARAWAY	5c.	15c.		'	ROSEMARY , an aromatic herb				
CHERVIL	5c.	25c.			SAGE (American)				
CHICKORY	5c.	15c.			SUMMER SAVORY				
CORIANDER	5c.	10c.			THYME (broad-leaved English)	5c.	35c.		

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

PEPPER OR CAPSICUM

GRIFFITH @ TURNER CO.

Is cultivated mainly for pickles; used as a seasoning in many ways; sometimes nuclicinally. Sow seed early in hotbed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 or 4 inches high, in rows 18 inches apart.

LARGE BELL OR BULL NOSE.—Plant vigorous, compact, very productive, ripening its crop uniformly and early. Fruit large, with thick, mild fiesh, of excellent quality for use in salads and pickles; color bright red when ripe. Pkt., 5c. Oz., 40c. ¹/₄ Lb., \$1.25. Lb., \$5.00.

RUBY KING.—An improved American variety often four to six inches in length and quite symmetrical in shape. It is very bright colored and the flesh is sweet and mild havored. **Pkts., 5c. and 10c. Oz., 40c.** 1/4 Lb., \$1.25. Lb., \$5.00.

SWEET MOUNTAIN.—Plants very vigorous, of compact, upright growth. The fruit does not ripen until very late. It is very large and long, often eight inches or more in length by two in diameter; very smooth and handsome, being when fully mature of a rich red color. Flesh very thick, sweet and mildly liavored. Pkts., 5c. and 10c. Oz., 40c. ¼ Lb., \$1.25. Lb., \$5.00.

CHINESE GIANT.—Double the size of Ruby King; the finest mild Red Pepper grown. It is very productive, having a magnificent appearance, which makes it sell readily. Pkt., 10c. Oz., 50c. ¼ Lb., \$1.50.

LONG RED CAYENNE.—A well known variety, having a slender, twisted and pointed pod about four inches long, and when ripe, bright red in color. Extremely strong and pungent flesh. Pkts., 5c. and 10c. Oz., 40c. $\frac{1}{4}$ Lb., \$1.25.

RED CHERRY.—Plant tall, bearing a profusion of round, bright red fruit which are very pungent when ripe. The plant, when in fruit, is very ornamental. **Pkts., 5c.** and 10c. Oz., 40c,

RED CHILI.—Used in the manufacture of pepper sauce. The bright, rich rcd pods are about two inches long, one-third to one-half incn in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe. **Pkts., 5c. and 10c. Oz., 40c.**

PUMPKIN

Plant in May, in hills 8 feet apart. Allot 10 seed to each hill, as bugs often destroy the young plants, but only allow 2 or 3 healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

G. & T. CO.'S MARYLAND SWEET POTATO

This is the best table Pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white striped. The flesh is a rich yellow color, solid, fine grained, very thick; flavor delicious. Pkt., 5c. Oz., 15c. ½ 1b., 40c. Lb., \$1.25.

LARGE CHEESE, OR RENTUCRY FIELD.—A very large, flattened pumpkin, averaging about two feet through. When ripened the skin is a rich cream color. Flesh yellow and of fine quality. Pkt., 5c. Oz., 15c. 1/4 Lb., 25c. Lb., 80c.

TENNESSEE SWEET POTATO.—A splendid pie and cooking pumpkin. They grow pearshaped, of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine-grained, keeping well until late in the spring. When cooked resembles sweet potatoes, but much more delicious in taste. **Pht., 5c. Oz., 15c. 1**/4 **lb., 25c. Lb., \$1.00**.

CONNECTICUT FIELD

A fine, large, orange-colored variety used for field culture and stock feeding. The skin is smooth and ribbed and the fiesh is brittle and sweet. Oz., 15c. ¹/₄ Lb., 25c. Lb., 80c.

YELLOW CASHAW, OR CROOKNECK.—Solid flesh, fine and sweet; keeps well. Pkt., 5c. Oz., 15c. 1/4 Lb., 25c. Lb., 80c.



Sow in early spring ir light, rich soil in drills 14 inches apart and thin the plants to six inches in the row. The roots will be ready for use in October and will sustain no injury by being left in the ground during the winter.

SANDWICH ISLAND MAMMOTH.—This new Salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners. Pkt., 5c. Oz., 15c. 1/4 Lb., 50c. Lb., \$1.75.

LARCE WHITE .- The old well-known variety. Pkts., 5c. and 10c. 1/4 Lb., 50c. Lb., \$1.75.

SALSIFY.



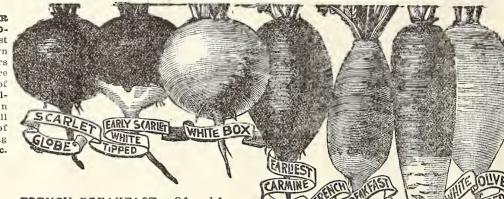
G. & T. CO.'S MARYLAND SWEET POTATO.





For an early supply sow in hotbed in February. For a successive supply sow from middle of March to September. Rad-ishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly, it will be hard, fibrous and disagreeably pungent.

EARLY SCARLET, OR PRUSSIAN GLOBE RAD-ISH .- This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of a globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of without becoming heat pithy. Pkt. 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.



White Strasburg Radish.

FRENCH BREAKFAST.-Of oval form; color scarlet, white tipped. Pkt., 5c. Oz., 15c.

NG

5c. 14 Lb., 30. Lb., 1.00. EARLIEST WHITE TURNIP.—For forcing. This and the Red Turnip bunch together very nicely. Pkt., 5c. Oz., 15c. 34 Lb., 30c. Lb., \$1.00. EARLY RED TURNIP.—Turnip shaped; red skin; for for-

cing. Sometimes called Red Button Radish. Pkt., 5c. 1/4 lb., 30c. Lb., \$1.00.

SCARLET OLIVE-SHAPED RADISH.—A showy half-long variety of pretty shape and bunches beautifully. Pkt., 5c. Oz., 15c. 14 Lb., 30c. Lb., \$1.00. WHITE BOX.—Perfectly round, smooth skin, pure white, free from any sharpness or

bitterness. A remarkably quick gro er, with small top. For forcing, it is in every way superior. Pkt., 5c. Oz., 15c. 34 Lb., 30c. Lb., \$1.00. EARLY WHITE TIPPED SCARLET.—An excellent vamety for forcing, with very short leaves; bright scarlet in color, with a white tip. Pkt., 5c. Oz., 15c. 34 Lb., 30c.

Lb., \$1.00.

SUMMER VARIETIES

WHITE STRASBURG .--- This is becomin; one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender. Pkt., 5c. Oz., 15c. 1/4 lb., 30c. Lb., 75c.

GIANT STUTTGART.--- A splendid new variety, of excellent quality; withstands sum-

mer heat. Pkt., 5c. Oz., 15c. 14 Lb., 30c.Lb., \$1.00. CHARTIER.—A _ood variety for private or market garden purposes. Stands long be-fore going to seed, and is tender and crisp. Pkt., 5c. Oz., 15c. 14 Lb., 30c. Lb., \$1.00. DELICACY.—Resemb'es White Strasburg, being more evenly shaped and smaller topped; grows into full size and perfection during the hottest months. Pkt., 5c. Oz., 15c. 1/4 Lb.,

30c. Lb., \$1.00. GOLDEN GLOBE .- An excellent summer Radish; slow to run to seed; shape globu-

lar, bright yellow color and mild flavor. Pkt., 5c. Oz., 15c. 14 Lb., 30c. Lb., \$1.00.



CINCINNATI MARKET NEW GLASS RADISH. Pkt., 5c. Oz., 15c. 1/4 Lb., 25c. Lb., 75c.

WHITE VIENNA, OR LADY FINGER.—This is unquestionably the finest long white Radish. Of most handsome shape, color a beautiful snow white. It is of very rapid growth, and remarkably crisp, brittle and tender; equally desirable for the market or home garden. Pkt., 5c. Oz., 15c. 14 Lb., 30c. Lb., \$1.00.

LONG SCARLET (Finest Grown) .-- Very attractive and sells readily. Owing tc its handsome shape, brilliant color and fine qualities, it commands a higher price and more ready sale than the ordinary Long Scarlet as generally sold. Pkt., 5c. Oz., 15c. 1/4 Lb., 25c. Lb., 75c.

RADISH--CONTINUED WINTER VARIETIES

GRIFFITH @ TURNER CO.

wHITE CHINESE WINTER, OR CELESTIAL—This excellent variety is sold also as Chinese White Winter. The roots are long, cylindrical, with beautiful white skin and flesh, the whitest and usually the least pungent of the winter varieties. When fully mature the roots are six to nine inches long by about two and one-half to three and one-half inches in diameter. The flesh is compact and crisp. Pkt., 5c., 0z., 15c. 1/4 Lb., 30c. Lb., \$1.00.

CHINESE ROSE WINTER-Remarkably fine for winter use. The best of the winter sorts. Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.

LONG BLACK SPANISH—A large winter variety; one of the hardiest, with dark green leaves, firm in texture, keeping until spring. Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.

LONG WHITE SPANISH (Winter).—Fine keeping quality. Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.

ROUND WHITE SPANISH—A good fall or winter variety. Pkt., 5c. Oz., 15c. ½ Lb., 30c. Lb., \$1.00.

ROUND BLACK SPANISH—A fine globe-shaped Radish; very popular with the Germans, known as Rettig; good quality. Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.

RHUBARB OR PIE PLANT

ONE OUNCE OF SEED TO 125 FEET OF DRILL.

CULTURE—Good plants are easily grown in any good garden soil. Sow seed thinly in shallow drills a foot apart, thin to 4 or 5 inches. Keep soil loose and free from weeds. The plants are liable to vary considerably. Pick out the strongest and best. In fall or spring following, transplant to the permanent bed, 4 feet apart each way, in deep, warm and very rich soil. The more manure the better stalks. For winter forcing take up two-year roots in fall, leave out to freeze, then bed close together on cellar bottom or under greenhouse bench in the dark. Pkts., 5c. and 10c. Oz., 15c. ¹/₄ Lb., 30c. Lb., \$1.00.

RHUBARB ROOTS

Chinese Winter Radish.



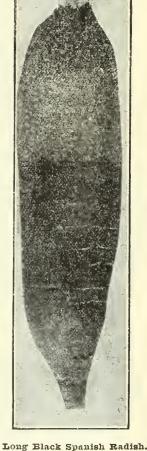
This is quite an important crop with market gardeners, and one easily managed. For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring use sow in August, and protect the plants through the winter by a thick covering of clean straw or some other similar light covering. Spinach is used principally as greens for boiling, and is very highly esteemed for this purpose.

BLOOMSDALE SAVOY—The variety most generally used in the East and especially throughout the South for shipping. Leaves large, round and thick, very much savoyed and rich deep green. One of the earliest varieties. Seed round. **Pkt., 5c.** ¹/₄ **Lb., 15c. Lb., 40c.**

G. & T. CO.'S EXTRA CURLED AMERICAN-GROWN BLOOMSDALE SAVOY SPINACH—This is grown especially for us. and is without exception the best type of Savoy Spinach in existence. It is beautifully curled and wrinkled, the leaves large, thick and heavy, produced in great numbers, and stands handling and transportation better than any other sort; in fact, we hardly think we could say too much about this valuable acquisition to the spinach family. Sold only in sealed bags. Pkt., 5c.; ¼ Lb., 15c.; Lb., 50c.

Bloomsdale—Savoy Spinach. Sold

15c. each. Dozen, \$1.75.



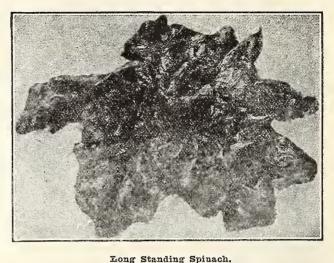
SPINACH--CONTINUED

LONG STANDING—Best for spring sowing, as it is very slow to seed. The leaves are large, round, unusually thick, curled and of dark green color. **Pkt.**, 5c.; ½ Lb., 15c.; Lb., 50c.

LARGE ROUND-LEAVED VIROFLAY-A new sort, with very large, thick leaves. Pkt., 5c.; 1/4 Lb., 15c.; Lb., 50c.

VICTORIA SPINACH—This new spinach comes to us with the highest recommendations from the growers. The foliage is heavy, the broad, dark green leaves being of the true Savoy appearance and of the finest quality; but the most remarkable feature that will make it of special value, both for market and family gardens, is the fact that it is in prime condition from two weeks to three weeks after all other varieties of spinach have run to seed. **Pkt., 5c.;** ½ **Xb., 20c.; Xb., 60c.**

WRITE FOR SPECIAL PRICES IN QUANTITIES.





Early White Bush Scallop.



The Squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties, and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

EARLY WHITE BUSH SCALLOP—A desirable and marketable sort. Best known and most productive of all the summer sorts. Pitt., 5c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

SUMMER CROOK NECK (Early)—Fine flavor; a desirable table sort. Pkt., 5c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

WINTER CROOK NECK-Flesh red, fine flavor; largely grown for winter use. Pkt., 5c. Cz., 15c. 1/4 Lb., 40c. Lb., \$1.25.

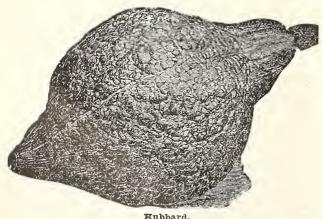
MUBBARD — The most popular winter squash. Fruit is oblong and pointed, heavily warted, dark green in color, with orange-colored flesh. Is remarkable for its keeping qualities.

Pkt., 5c.; Oz., 15c.; 1/4 Lb., 40c.; Lb., \$1.50.

BOSTON MAR-ROW - A popular variety, with large, oval fruit. Skin bright reddish orange with light cream netting. Flesh orange. Fine grained and of excellent quality. This is the most popular variety for canning. The fruit makes a rich orange-red, and delicious flavored dish.

Pkt., 5c. Oz., 15c. 1/4 Lb., 30c. Lb., \$1.00.





Furmer Crook Neck

TOMATO

GRIFFITH @ TURNER CO

BONNY BEST TAKEN FROM PHOTOGRAPH. ONE CLUSTER.

ONE-THIRD NATURAL SIZE.

For early fruit sow the seed in March or April, in the hotbed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hotbed or cold frame or removed into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground at a dis-tance of four or five feet each way. Water freely at the time of trans-planting, and shelter from the sun for a few days until the plants are established. Sufficient plants for a small garden may be had by sowing a few seeds in a shallow box or flower pot and placing in a sunny window in the house. Cultivate thoroughly as long as the vines will permit.

EXTRA EARLY RED VARIETIES early market. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant the plants may be set much closer than in the ordinary way.

BONNY BEST TOM

As its name signifies, it is the best extra early tomato yet introduced. Is fully ten days earlier than Chalk's Early Jewel, and within a day or two, if not quite as early as Spark's Earliana. Truckers who tested it claim it is as early

Spark's Earliana. If deade that the factor is a searly as Earliana. It is a vigorous grower, very prolific, with dense foliage, which protects the fruits from hot sun when other varieties like the Earliana have scalded fruits. The fruit is even size, smooth, round, red, of delicious flavor, ripening to stem. It does not have the green surface like the Earliana and other extra early varieties. **Pkts., 5c. and 10c. 0z., 35c.** ¹/₄

the other extra early varieties. Pkts., 5c. and 10c. Oz., 35c. 1/4 1b., \$1.25. Lb., \$5.00. EARLY I. X. L. TOMATO.—Earliest, largest, most prolific, Pkt., 10c. 1/2 oz., 20c. Oz., 35c. 1/4 1b., \$1.25. 1/2 1b., \$2.50.

Pkt., 10c. Lb., \$5.00.

ATLANTIC PRIZE (Select Stock),—An excellent extra early red Tomato, and while it does not run as regularly smooth as the Paragon, it ripens very evenly. Pkts., 5c. and 10c. Oz., 35c. 1/4 lb., \$1.25. Lb., \$4.00.

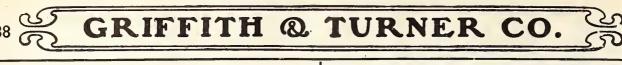
CHALK'S EARLY JEWEL.—Deep-fruited and solid. The growth is very compact. Fruit of uniformly good size; very solid; brightest scarlet, ripening up to the stem without cracks or green core; sweet flavor.

Pkts., 5c. and 10c. Oz., 35c. 1/4 lb., \$1.25. Lb., \$5.00.

MAULE'S EARLIEST.—New; very fine; extra early; very prolific; fruits large size; excellent for shipping. Psts., 5c. and 10c. Oz., 35c. 1/4 1b., \$1.25.

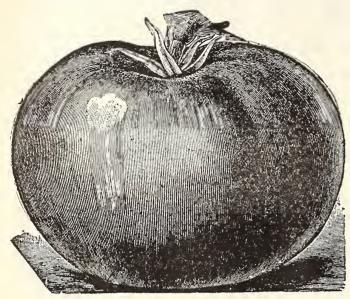
NEW SUCCESS.—A magnificent new scarlet fruited To-mato of finest quality, handsome appearance, large size and great productiveness.

Pkts., 5c. and 10c. Oz., 35c. 1/4 1b., \$1.25. Lb., \$4.00.



EARLY RED VARIETIES

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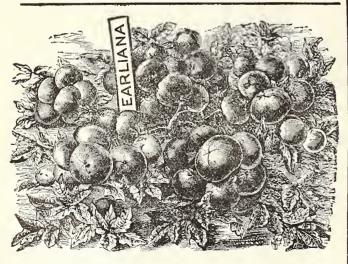


EXTRA EARLY RUBY

While not as early as the Sparks' Earliana by a week or ten days, it is far superior in quality, size, shape, flavor and productiveness. In color, ruby red, nearly globe-shaped; solid flesh throughout, and with very few seeds and free from acidity; it makes a splendid main crop variety; a great keeper and shipper. Pkt., 10c. Oz., 35c. 1/4 Lb., \$1.25. Lb., \$5.00.

JOHN BAER .- New, early and prolific. Fine flavor and shape; quite as early as Bonny Best.

Pkts., 5c. and 10c. 1/4 lb., \$1.25. Lb., \$5.00.



SPARKS' EARLIANA-The earliest bright red Tomato; very large, smooth color, bright red; solid and excellent for slicing. The plants are of moderate growth, well set with fruits, nearly all of which ripen extremely early in the season. Grows in clusters; of medium size; smooth, solid, solid center, small seed cells, slightly acid.

Pkts., 5c. and 10c. Oz., 35c. 1/4 1b., \$1.25. Lb., \$5.00.

EXTRA EARLY PURPLE VARIET

BEAUTY.—For early market and shipping this cannot be excelled, because of its solidity and toughness of skin. Color is a rich, glossy crimson, with a slight tinge of purple. It is well known and very largely used by our gardeners

Pkts., 5c. and 10c. Oz., 35c. 1/4 1b., \$1.00. Lb., \$4.00. DWARF CHAMPION .- Dwarf, upright growth; smooth purple fruit.

Pkts., 5c. and 10c. Oz., 35c. 1/4 1b., \$1.25. Lb., \$5.00.

PRIZETAKER .--- Early; large; handsome; deep crimson; Slight tinge of purple. Pkts., 5c. and 10c. Oz., 30c. 1/4 lb., 90c. Lb., \$3.00.

MEDIUM EARLY PURPLE VARIETIES

PRIZEWINNER.—Purple; early; prince of market To-matoes; color resembles Beauty, but larger; solid; one of the best keepers and shippers; smooth; well adapted for

late crop. Pkt., 10c. 0z., 35c. ¹/₄ lb., \$1.00. Lb., \$4.00. PONDEROSA.—Remarkable for size; fruits heavy; deep red; flesh thick, solid and fine quality. Pkt., 10c. Oz., 35c. 1/4 1b., \$1.25.

ACME .- Purple; early; medium; pink-purplish; slightly

Pkts., 5c. and 10c. Oz., 35c. ¹/₄ lb., \$1.25. CRIMSON CUSHION.—Resembles Ponderosa in shape and size; color deep red. Pkt., 10c. Oz., 35c. ¹/₄ lb., \$1.25. BUCKEYE STATE .- Purple; productive, but not very solid;

large, smooth. Pkts., 5c. and 10c. Oz., 35c. 1/4 1b., \$1.25.

LORILLARD.-Best for greenhouse forcing; bright, glossy red; very smooth. Pkt., loc.

SMALL FRUITED VARIETIES

PEAR-SHAPED RED .-- Pkts., 5c. and 10c. Oz., 35c. 1/4 lb., \$1.25.

PEAR-SHAPED YELLOW.—Used for preserves and pickles. Pkts., 5c. and 10c. Oz., 35c. ¼ lb., \$1.25. YELLOW PLUM.—Color bright yellow; excellent for pre-serving. Pkt., 5c. Oz., 35c. ¼ lb., \$1.25.



Griffith & Turner Go.'s

The great canner. The six great points of this great can-ner—solidity, symmetry, handsome, bright red, ripens uni-form, free from rot. Its shipping and keeping qualities are unexcelled.

The planters now demand this great Tomato, notwithstand-ing the fact that there are many much-newer varieties. Yet it has been so successful that it is preferred above all others. The fruit is particularly solid and of fine flavor, good size, smooth, and certainly very attractive.

Pkts., 5c. and 10c. Oz., 30c. 1/4 lb., 90c. цр., \$3.50. Main Crop Varieties

GRIFFITH @ TURNER CO

THE NEW STONE TOMATO.—Ripens for main crop; is very large and of bright scarlet color; very smooth, with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem with-out a crack; exceedingly solid and firm-fleshed (as its name indicates). It is an excellent shipper; fine for computing a good keepst; net subject to ret for canning; a good keeper; not subject to rot. Pkts., 5c. and 10c. Oz., 30c. 1/4 Lb., 90c. Lb., \$3.50.

"GREATER BALTIMORE" TOMATO.—Makes a fine crop. Pkts., 10c. ½ oz., 15c. Oz., 30c. 2 oz., 60c. ¼ Lb., 90c. Lb., \$3.50.

LIVINGSTON'S FAVORITE .- Bright red, smooth Tomato of good size.

Pkts., 5c. and 10c. Oz., 30c. 1/4 Lb., 90c. Lb., \$3.50.

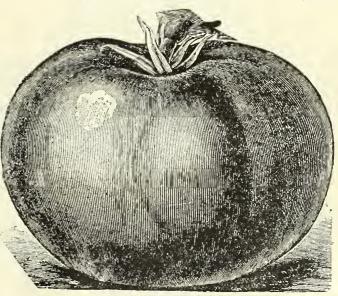
PARAGON.-Well-known standard bright red Tomato.

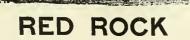
Pkts., 5c. and 10c. Oz., 30c. 1/4 Lb., 90c. Lb., \$3.50.

ROYAL RED.—New; resembles Fa form and color; good main crop variety. Favorite in Pkts., 5c. and 10c. Oz., 30c. 1/4 Lb., 90c. Lb., \$3.50.

NEW QUEEN TOMATOES.—Fruit somewhat re-sembles Paragon in appearance. This sort is well known and a favorute among canners, but it is not as deep red in color nor as weighty and solid as our World's Fair.

Pkts., 5c. and 10c. Oz., 30c. 1/4 Lb., 90c. Lb., \$3.00.





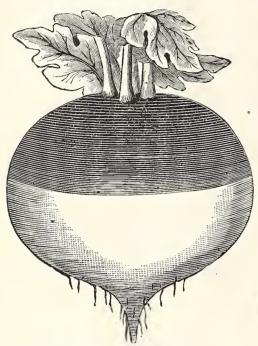
One of the finest for canning, being extraordinarily solid, smooth and red. No other variety has any better qualities than the Red Rock. Of fine flavor, very meaty and wonder-fully free from acid. A heavy producer and good shipper. We think it is the coming Tomato for main crop and canners' use. Pkts., 5c. and 10c. Oz., 35c. 1/4 Lb., 90c. Lb., \$3.50.

WISDOM .- Recently introduced. Medium, early; good cropper, fine size and flavor. Good for early or late planting. Pkts., 5c. and 10c. Oz., 50c. 1/4 Lb., \$1.25. Lb., \$5.00.

MATCHLESS.—The color is rich red. The skin is so tough that it makes a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsur-passed for market or table; strong grower and very pro-ductive, bearing with undiminished vigor until frost. The fruit is free from core and the seed spaces comparative small. Pkts., 5c. and 10c. Oz., 30c. 1/4 Lb., 90c. Lb., \$3.50.

Pkts., 5c. and 10c. Oz., 30c. ¼ Lb., 90c. Lb., \$3.50.
BRINTON'S BEST.—One of the leading sorts for second early and late use; the fruit is large, handsome and a splendid keeper. A great favorite with canners and truckers.
Pkts., 5c. and 10c. Oz., 30c. ¼ Lb., 90c. Lb., \$3.50.
KELLY RED TOMATO.—This splendid Red Tomato originated in Anne Arundel County, Md., and through its superior qualities it has become the Tomato most largely used in that section. It is large, meaty, an abundant yielder, and withstands unfavorable conditions remarkably well.
Pkts., 5c. and 10c. ½ Oz., 15c. Oz., 30c. ¼ Lb., 90c. Lb., \$3.50.

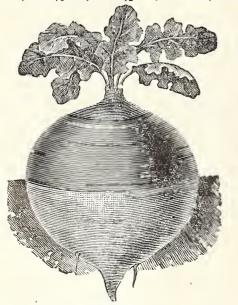
TURNIP



Improved Purple or Red Top Globe Turnip.

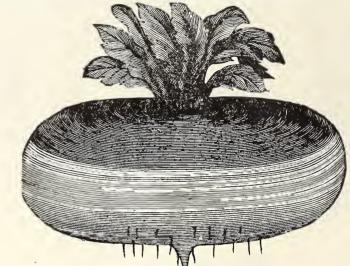
This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety, and is one of the best for market use. It is also known as Red Top White Globe.

Pkt., 5c. 1/4 Lb., 20c. 1/2 Lb., 40c. Lb., 75c.



G. & T. Co.'s Improved Purple Top Rutabaga.

For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart, the Rutabagas 30 inches. As the seed is very fine, it should be covered but slightly, excepting in very dry weather. Select light, and if possible, new soil and manure with plaster and ashes or phosphates. Should the young plants be troubled with in-sects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August, and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.



Red or Purple Top Flat Strap-Leaved Turnip.

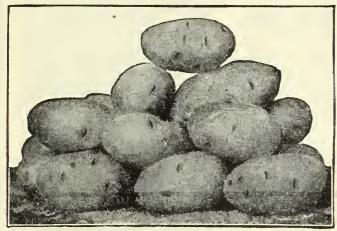
Red or Purple Top Flat Strap-Leaved Turnip. A very early strap-leaved variety, very extensively used for the table, the leaves are few, entire, upright in growth. The roots are flat, of me-function of the table, the strap-Leaved and tender. Roots when in best condition for table use white, fine grained and tender. Roots when in best condition for table use larger for stock feeding. This sort is also known as Early Red Top. Strap-Leaved. Pkt, 5c. 1/4 Lb, 20c. 1/2 Lb, 40c. 1 Lb., 75c. The destription of the strap table use of the solution of the table, the solution of the solut

RUTABAGAS OR SWEDES

The Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock-raiser should grow Rutabagas and Stock Beets for winter and feeding

feeding GRIFFITH & TURNER CO.'S IMPROVED FURPLE TOP-Yellow-fleshed. A standard field variety for stock and fine for family use. This splendid Swede is the hardiest, most productive and most nutritious variety in cultivation. Pkt. 5c. ¼ Lb., 20c. Lb., 75c. FURPLE TOP RUTABAGAS-An old standard sort of good quality. Ptt., 5c. ¼ Lb., 20c. Lb., 75c. G. & T. CO.'S WHITE ROCK-Though sometimes called a turnip, this is more like a rutabaga. The root is large, both skin and flesh very white, and is one of the best varieties we have for table use. An excellent keeper and a desirable sort for market gardeners. Pkt., 5c. ¼ Lb., 20c. ½ Lb., 40c. Lb., 75c.





Extra Early Prize Pot Potatoes.

G. & T. CO.'S EXTRA EARLY PRIZE.—This potato is in all respects a very superior early sort. It proved to be early and productive; also found its eating qualities first class. We consider it the best carly Potato on the market today.

15 lbs. @ 6c. lb. 60 lbs. @ 51/2 c. lb.

WHITE BLISS TRIUMPH, or PRIDE OF THE SOUTH.—Extra early round white; identical with the Red Bliss, only different in color. A very fine variety for early market or family garden.

15 lbs. @ 6c. lb. 60 lbs. @ 51/2 c. lb.

RED BLISS TRIUMPH.—This beautiful variety com-bines the wonderful productiveness of the Peerless with all the good qualities of the Early Rosc; is much more productive and matures its crop at least a week in advance of the Early Rose.

15 lbs. @ 7c. lb. 60 lbs. @ 6c. lb.

EARLY OHIO.—This is very early and productive, of fine quality and an excellent keeper.

15 lbs. @ 6c. lb. 60 lbs. @ 51/2 c. lb.

MAINE, or HOULTON EARLY ROSE.—The Early Rose led the list for over 30 years, and is today one of the best early market Potatoes. Our stock of this is grown on new land, near Houlton, Maine; is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Re-member, that this stock is not to be confounded with the old run-out Rose grown in other sections.

15 lbs. @ 6c. lb. 60 lbs. @ 51/2c. lb.

EARLY NORTHER.—This superb Potato originated at Caribou, Maine. It resembles the Early Rose in shape and color, matures earlier than the Rose, and is much more pro-ductive. Under our own observation the past season it yielded more than the Rose, matured earlier, and was in all respects superior. 15 lbs. @.6c. lb. 60 lbs. @ 5½c. lb.

NEW YORK EARLY ROSE .- A leading variety for earliness, quality and productiveness. 15 lbs. @ 6c. lb. 60 lbs. @ 5½c. lb.

EARLY BOVEL.—One of the earliest varieties; good size, very smooth; uniform, perfect shape; eyes shallow; light skin and white flesh. Cooks dry and floury; of superb quality; a great yielder and healthy grower. 15 lbs. @ 6c. lb. 60 lbs. @ 5½c. lb.

15 165. (@ 6c. 1b. 60 165. (@ 5½c. 1b.
CROWN JEWEL.—Very early and prolific; skin pinkish white. One of the best for early market. It is planted very largely in this vicinity and the South.
15 1bs. (@ 6c. 1b. 60 1bs. (@ 5½c. 1b.
BEAUTY OF HEBRON.—Very rapid and vigorous grower, ripening as early as Early Rose, which it resembles, but frequently exceeds in productiveness and excellence for table use, either baked or boiled.
15 1bs. (@ 6c. 1b. 60 1bs. (@ 5½c. 1b.

MARYLAND WHITE POTATOES

FOR LATE PLANTING

ORDER EARLY TO SECURE A SUPPLY.

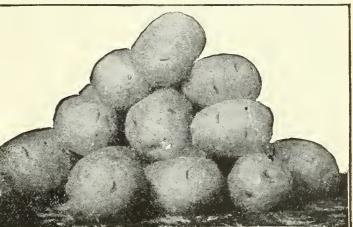
Fine white skin, shallow eyes, beautiful oblong shape, thick through fine flavor, excellent cooker, heavy yielder. Will yield better than other late varieties. Ready in June to plant. Price-15 lbs. @ 7c. lb. 60 lbs. @ 6c. lb. From Cold Storage. Price-

POTATOES MAINE OR NORTHERN GROWN All Potatoes Sold by Weight Only

A Bushel Consists of 60 Pounds.

The soil best suited to the Potato is a rich, sandy loam; but it seems to thrive in almost any soil or climate. The Potato being a gross feeder requires a liberal application of manure. If stable manure is to be used it should be well-rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destruc-tive influence of wire worms. **GRIFFITH & TURNER CO.'S FLANT FOOD** is especially adapted for Potatoes, as it pro-motes growth and at the same time prevents disease. Plant as early in the spring as the ground can be thoroughly worked in rows three feet apart and one foot in the rows, covering in light, warm soil about four inches, and in cold, wet ground three inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.

IRISH COBBLER (A New Sort).—Very productive, ma-tures early; shape chunky, eyes strong and deeply set, skin netted, flesh white, quality very superior. After years' ex-



Irish Cobbler Potatoes.

perience we find that it is a very superior variety. Don't fail to get it.

15 lbs. @ 6c. lb. 60 lbs. @ 5c. lb.

G. & T. CO.'S BOUNTIFUL .- The finest middle crop variety yet introduced. Before putting it on the market we have given it a thorough test, and are convinced of its su-perior qualities. A heavy cropper, yielding large, smooth, head compare tubers handsome tubers

15 lbs. @ 6c. lb. 60 lbs. @ 5c. lb.

PROSPERITY.—A middle-crop variety, one of the hand-somest large Potatoes ever produced. 'The yield is immense, and even under unfavorable circumstances can be relied on; flesh very white; cooks dry and mealy. 15 lbs. @ 6c. lb. 60 lbs. @ 5c. lb.

BURAL NEW YORKER, No. 2.—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly. 15 lbs. @ 6c. lb. 60 lbs. @ 5c. lb. **BURBANK.**—This is an old and reliable variety, and is A No. 1 for a late, large-yielding, good-keeping Potato, and for table use, after January 1, is one of the best. 15 lbs. @ - lb. 60 lbs. @ - lb. **NEW OUEEN.**—A grand Potato of recent introduction,

NEW QUEEN.—A grand Potato of recent introduction, closely resembling Beauty of Hebron in appearance, color, size and shape, but is 7 to 10 days earlier and a heavy yielder. Our seed of this variey comes from Maine, where it originated, and is pure and true to name. 15 lbs. @ 6c. lb. 60 lbs. @ 5½c. lb.

GREEN MOUNTAIN.—A fine late sort, 15 lbs. @ 6c. lb. 60 lbs. @ 5c. lb.

POTATOES

CHOICE JERSEY SWEETS AT MARKET PRICES DURING SEASON. WRITE FOR QUOTATIONS.

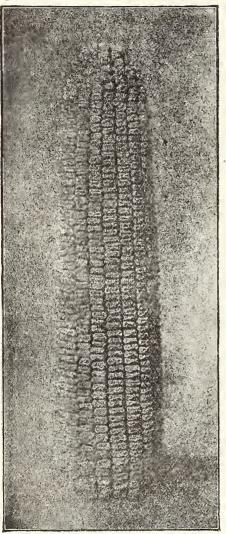
SWEET

U. S. Pood Administration License No. G 22972.

ASK FOR PRICE IN LARGE QUANTITIES.

UNITED STATES FOOD ADMINISTRATION LICENSE No. G 22972.

CHESTNUT GROVE YELLOW CORN—This corn was grown on Chestnut Grove Farm, Baltimore county, and the average yield from the whole crop was 20 1-16 barrels to the acre. The ears are large, deep, medium-sized grain, and of beautiful color. Qt., 20c. Feck, \$1.25. Bus., \$4.00. 10-bus. lots, \$3.50 bus.

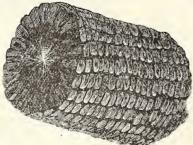


Maryland Yellow Dent Corn.

NEW MARYLAND YELLOW DENT—The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much, and will stand drought better than a large stalk, and will yield 5 to 10 bushels per acre more than any other corn generally planted. Qt., 20c. Peck, §1.25. Bus., \$4.00. 10-bus. lots, \$550 \$3.50

Peck, \$1.25. Bus., \$4.00. 10-bus. lots, \$3.50.
IMPROVED EARLY LEAMING— Bred and tested for 10 years. Pedi-gree stock. An early selected vari-ety of yellow corn; small grain, weighty and productive. Highly es-teemed in Maryland and Pennsyl-vania. One of the earliest varieties of yellow corn in cultivation. Qt., 20c. Peck, \$1.25. Bus., \$4.00. 10-bus. lots, \$3.50 bus.
G. & T. CO.'S IMPROVED GOLD-EN BEAUTY—A large, broad-grain-ed yellow corn, with ears of perfect shape and small cob. The richness of color and the quality of grain make it a very superior variety. Qt., 20c. Peck, \$1.25. Bus., \$4.00. 10-bus. lots, \$3.50 bus.
90-DAY YELLOW—This is an ex-cellent quick-growing variety. May be planted after peas are taken off, and make a good crop. Largely used by truckers around Baltimore. Qt., 20c. Feck, \$1.25. Bus., \$4.00. 10-bus. lots, \$3.50 bus.

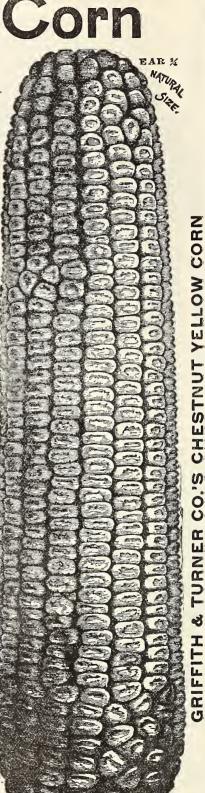
And Marke a good clop. Largery dised by truckers around Baltimore. Qt., 20c. Feck, \$1.25. Bus., \$4.00. 10-bus. Iots, \$3.50 bus. REID'S YELLOW DENT CORN— Matures in 100 to 105 days. Has a rich yellow color, very solid heavy ears from 8 to 12 inches long, with 16 to 18 rows of grain. The grains are deep on a small red cob. Fodder from 7 to 8½ feet high, and pro-duces a great many stalks with two ears. A fine early corn. Qts., 20c. Feck, \$1.25. Bus., \$4.00. MAMMOTH YELLOW ENSILAGE CORN—Especially adapted for ensil-age, as it grows. large fodder and blades; preferred by many to the white. Qt., 20c. Feck, \$1.25. Bus., \$4.00.



Improved Yellow Leaming.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



UNITED STATES FOOD ADMINISTRATION LICENSE No. G 22972.

HITE FIELD CORN

G. & T. CO.'S IMPROVED MARY-LAND WHITE DENT CORN.—After years of careful selection we have secured this improved White Field Corn; grows good-sized ears and makes splendid meal. Produces bet-ter crops on average land than most any other variety. Qt., 20c. Peck, \$1.25. Bus., \$4.00.

BOONE COUNTY WHITE.—We be-lieve this to be the best all around White Corn in existence. It is a heavy yielder; has large ears, deep grain, small cob and produces good-sized fodder, free from barren stalks. Matures in 110 to 115 days. **Price:** Qt., 20c. Peck, \$1.25. Bus., \$4.00. 10-Bushel Lots, \$3.50 Bushel.

SOUTHERN SNOWFLAKE .--Awell-known and very popular corn through the South. Suitable for meal or feeding purposes; the best white corn for poor land. Qt., 20c. Peck, \$1.25. Bus., \$4.00.

90-DAY CORN (White with Red Cob) .-- This is an elegant corn for truckers and market gardeners, as it as good a seller as green corn. Is suitable for either early or late crop. Qt., 20c. Peck, \$1.25. Bus., \$4.00.

white ENSILAGE CORN. --- Specially adapted for ensilage. Bushel, \$4.00,

POPCORN POPPERS .--- 15c. each.

Boone County White Corn.

SEED OATS

IMPROVED WHITE TARTAR.

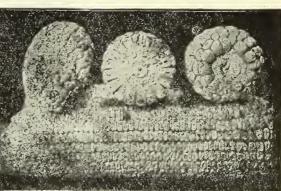
The most remarkable Oats now under culti-vation. Our customers say they will sow no others. These grand Oats outyield all others. The very best for all-round purposes. Greatest yielding variety in existence and rust-proof. Succeeds well on all soils. Straw is of golden yellow color, while the grains are white, with a slight golden cast. Withstands stormy weather. A measured bushel weighs from 36 to 42 bs. Would highly recommend these Oats to all our customers. Change your seed this season. **Bushel of 32 lbs., \$2.00**.

WHITE SEED OATS

For spring sowing. 32 pounds to the bushel. xtra heavy fancy White Oats. Ask for Extra prices.

WINTER TURF UAIS

Perfectly hardy in the Southern and Middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine, heavy grain weigh-ing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices first of August.



Maryland White Dent Corn.

JOHNSON COUNTY WHITE CORN.

JOHNSON COUNTY WHITE CORN. A favorite white corn in the Western Corn Belt. Ears are a little longer than the Boone Co. White, but about same diameter. Good, deep grain on small, white cobs, and not quite so indented as the Boone Co. It will shell from six to seven bushels per barrel. We recommend it as a fine general main crop sort. Will mature in about 120 days. Has abundant foliage, which makes it also valuable for ensilage purposes. Quart, 20c. Peck. \$1.25. Bushel. \$4.00. 10-

Quart, 20c. Peck, \$1.25. Bushel, \$4.00. 10-bushel lots and over, \$3.50.

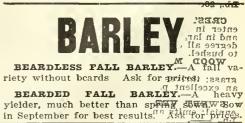
SEED WHEAT AND RY

We can offer choice stocks of Seed Wheat and Rye, recleaned, and at reasonable prices. Write us August 1 for special prices for fall sowing.

SEED BUCKWHEAT

JAPANESE .- The best sort. The plants are large and vigorous, maturing their seed early and resisting drought and blight remarkably well, while the grain is much larger and at the same time has a thinner hull than the common or the Silver Hull. Owing to its branching character, only one-half the seed is required per acre, while the straw is much stiffer and stands up better. We recommend this especially for well-drained or sandy land and the dry climate of the Western plains. Peck, 35. Bushel, \$2.50. **AT**

SILVER HULL.-Same price as above siup molst



GRIFFITH @ TURNER CO. **High-Grade Grass Seeds**

TIMOTHY (Phleum pratense.) This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loams, low lands or in mountainous dis-tricts, although it will do well on any good stiff loamy soils, provided moisture is abundant. It does not succeed nearly as well, however, as Orchard. Tall Meadow Oat or Herd's Grass on soils of a sandy or light loamy texture, and is not of as much value for pasturage as other grasses. The stand of Timo-thy will also be injured if grazed or cut too closely. The yield of hay on good ground is from one and a half to three tons per acre. The best clover to sow with timo-

TIMOTHY,



The best clover to sow with timo-thy is either the Sapling or Alsike, as they mature and ripen with timothy. Found, 15c. Feck, \$1.65. Bushel of 45 lbs., \$6.50.

Bushel of 45 lbs., \$6.50. RED TOP, OR HEED'S GRASS (Agrosis vulgaris). — This grass makes excellent pasturage and good crop of fine quality hay, and succeeds on a greater variety of soils than any other grass in gen-eral use, giving very good results on light soils and the very best results on heavier, moist or low ground soils. It is rather late in starting in the spring and matures its crop at the same time as Timothy. Is excellently alapted for seeding with Timothy for hay, and fur-nishes excellent pasturage afterwards. When it gets well established it will gradually supplant other grasses. The grades of seed usually sold are: CHAFF RED TOP.—Seed in chaff. Sow 4 to 6 bushels to the acre, 10 bbs. to bushel. Price, 60c, bushel. UNHULLED RED TOP.—Seed in hull, but free of chaff and impurities. Sow 2 to 3 bushels to the acre; 14 lbs. to the bushel. Price, bl., 15c.; bus., \$1.75; 100 lbs., 12c. Ib. FANCY CLEANED RED TOP.—Hulled seed, free from all impurities. We would advise our customers to sow the Extra Cleaned Unhulled or Fancy Cleaned seed. Fancy Cleaned Red Top.—Sow 12 to 15 lbs, to the acre. Price, 25c. lb.; \$22.00 per 100 lbs.; bushel of 32 lbs., \$7.00. R H O D E ISLAND BE N'T GRASS (Agrotis canina).—A very fine variety for lawns. Lb., 60c. SCUE (Festuca ovina).—It is a densely tufted

SHEEP FESCUE (Festuca ovina).—It is a densely tufted perennial grass for dry, sandy and rocky soil where scarcely any other species will grow. It roots deeply, and forms a dense, short tuft, suitable for lawns and pleasure grounds where the soil is sandy. It affords wholesome food for all cattle, especially sheep. Specially recommended for pasturage mixtures. Sow about 30 pounds per acre. Lb., 50c. Bushel of 12 hs. Se0. mixtures. Sow of 12 lbs., \$6.00.

ITALIAN RYE GRASS.—Is an annual, and should be sown every year at the rate of 50 pounds per acre. It can be sown during August, September or October. It should be mown as early as the blossoms appear, or the hay will not be so good, and it can be cut every month from early spring if the soil and weather are suitable. **Bus.**, 20 **1b. Lb.**, **30c.** 10 **lbs.**, \$1.50. **Per 100 lbs.**, \$13.00. Per 100 lbs., \$13.00.

ENGLISH RYE GRASS (Lolium perenne).—This makes a quick growth very early in the spring, and is adapted for cool, moist locations. 24 lbs. to the bushel; 60 lbs. to the acre. Lb., 20c. Bushel, \$3.00.

CRESTED DOG'S TAIL (Cynosurus cristatus).—Should enter in moderate quantity in permanent pasture mixtures, and in larger quantities for lawns, as it possesses in a marked degree all the desirable features of a good lawn grass. 21 lbs. to bushel. Lb., 60c. 10 lbs., \$5.00. WOOD MEADOW (Foa nemoralis).—An early nutritive

grass; thrives better under trees than other grasses. Is an excellent pasture grass. **Lb., 90c. 14 lbs. to bushel.** Is also

SWEET VERNAL (Anthoxanthum odoratum).-True per-ennial; emits an agreeable odor, which it imparts to the hay. Lb.,

KENTUCKY BLUE GRASS.—It is rather sensitive to heat, but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a

abes his best in the fail, white and spring. It grows slowly at first, forms a very compact turf, making a fine pasturage when once established. It is much the best, however, to com-bine other grasses with it for either lawn or pasturage. Sow in the spring or fall. Fancy, triple-cleaned. Fer lb, 35c. Bus. of 14 lbs., \$4.50. OR CHARD GRASS (Dactylis glomerata).—One of the best and most reliable grasses for the Middle and Southern States, either for hay or pasturage. It suceeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. It starts early in the spring and continues well into winter. It is of quick growth and relished by stock, especially when young, and bears close grazing. It makes excel-lent hay, and gives the very best results mixed and grown with Tall Meadow Oat Grass. It should be cut when in blossom, as the hay is in-jured if the seed is allowed to ripen. It can be sown in the spring or fall either with grain or alone. Sow 3 bushels per acre if sown alone, or with Red Clover, one and one-half bushels of Orchard and seven pounds of Clover are the quantities usually sown. Price, 30c. lb. Bus. of 14 lbs., \$4.00. TALL MEADOW OAT GRASS

TALL TALL MEADOW OAT GEASS (Avena elatior).—Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle, early and late. For hay it may be cut twice a year, and for green soiling it may be cut four or five times in favorable seasons. It is very hardy and withstands extreme drought and heat and cold. Height, 2 to 4 feet. 50 pounds to the acre. (10 pounds to bushel.) Lb., 50c. 100 Ibs., —. MEADOW OAT GRASS lbs.

CRELPING BENT GRASS (Agrotis stolonifera).—Excellent for lawns; succeeds well in all conditions; makes velvety growth. Lb., 60c. low.

a low, velvety growth. Lb., 6vc. Eus. (20 lbs.), _____. MEADOW FORTAIL (Alopecurus pratensis)...Closely resembles Timo-thy in growth, but has a soft. feath-ery head. It is a valuable pasture grass by reason of its rapid growth. About 7 pounds to the bushel; 3 bu-shels to the acre. Lb., 75c. Bushel,

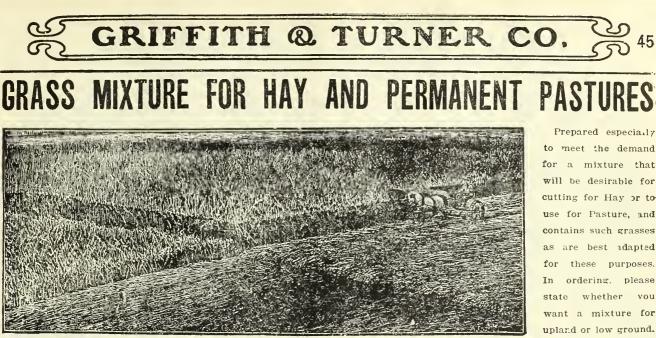
MEADOW FESCUE, RANDALL, or ENGLISH BLUE GRASS (Festuca pratensis).—This should be very much more largely used than at present. It makes a very good hay and pas-turage grass, and is particularly valuable for fall and winter pasturage, as it remains green throughout the winter. It is very popular in Southwest Virginia, East Tennessee and the Mountainous districts of North Carolina, where it is very highly appreciated as a large-vielding, nutritious pasturage and hay grass. It succeeds well in nearly all sections of the South, and should be very largely used in pasturage and hay mixtures, being specially suitable for sowing with Red Top and Timothy for hay, or with these and Orchard and Tall Meadow Oat for permanent pasturage. Sow either in the spring or fall at the rate of 50 pounds to the acre. Thrives better under trees than other grasses. 22 lbs. to bus. Lby, 35c. 100 lbs.,

better under trees than other grasses. 22 lbs. to bus. Lb., 35c. 100 lbs., —. AwNLESS BROME GRASS (Bromus inermis).—Compara-tively a new grass in this country, but in Hungary (Europe), its principal home, it is the chief meadow grass of the sandy moorlands. It grows coarse, resembling Orehard Grass; prefers light, dry soil. It roots deeply, and stands protracted droughts well, and will thrive upon soils too poor and dry to grow anything else but broom sedge; hence is valuable for such situations, both for grazing and hay, and especially in mixtures with other grasses. It has, however, been talked up very much in the agricultural press, especially in the West, and is worthy of extended trial. Sow at the rate of from 35 to 40 pounds per acre when sown by itself, either in the spring or fall. Lb., 50c. Bushel of 14 lbs., —.



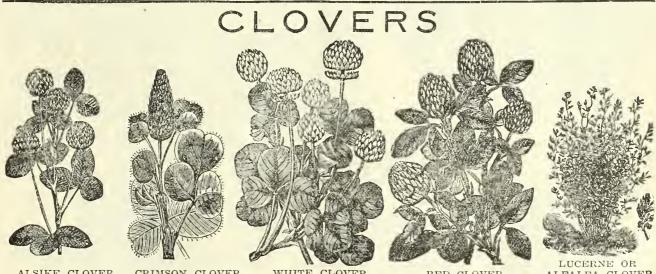


ORCHARD GRASS.



MIXTURE FOR UPLAND.-14 lbs. to the bushel, 3 bushels to the acre. Fer bushel, \$4.25; 10 bushels for \$40.00. MIXTURE FOR LOWLAND.-14 lbs. to the bushel, 3 bushels to the acre. Per bushel, \$4.25; 10 bushels for \$40.00.

GRASS AND CLOVER SEED MIXTURES, FOR MOWING FOR HAY, BUT CAN BE GRAZED We have in the following mixtures combined grasses suitable for the various soils for which they are recommended. They are composed of grasses which will give an even growth for mowing for hay. We have also combined them so is to give a splendid pasture from early spring until late sall if desired. The different mixtures are prepared from seeds of the finest quality, and only those are used best adapted to the soils and situation for which they are intended **MIXTURE No. 1.—For Moist Bottom Lands.** Sow 25 lbs. to the acre. **Frice, Lb., 30c.** 10 lbs. and over, 28c. per lb. **MIXTURE No. 2.—For Light, Dry, Gravelly or Sandy Soils.** Sow 35 lbs. to the acre. **Frice, Lb., 30c.** 10 lbs. and over, 38c. per pound. as to The si 28c. per pound.



ALSIKE CLOVER.

CRIMSON CLOVER.

WHITE CLOVER.

RECLEANED RED CLOVER.—We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. We have, however, cheaper grades for those who wish them. 55c. 1b.

55c. lb. Ask for prices in large quantities. ALSIKE OR SWEDISH CLOVER.—Hardiest of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage Valuable for sowing with other Clovers or grasses, as it forms a thick bottom and increases the yield of hay. Sow, either fall or spring, 6 pounds per acre when used alone. Lb., 55c. Ask for prices in quantity.

WHITE DUTCH CLOVER .- Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass for permanent pastures. 1/4 lb., 15c. 1/2 lb., 30c. 1 lb., 60c. By mail, lb., 65c. 10 lbs., by express, not prepaid. \$6.00.

WRITE FOR SPECIAL PRICES ON ABOVE.

RED CLOVER.

ALFALFA CLOVER.

LUCERNE OR ALFALFA CLOVER.—One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Sow on rich, moist loam or sandy soil. Prepare the land thoroughly and sow, either fall or spring, 20 pounds to the acre. Lb., 40c. Special prices in large quantities on application.

CRIMSON CLOVER (The Great Nitrogen Gatherer).—The best crop for hay, silage and green manuring—all winter and spring pasturage. For hay it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October, and will produce an enormous crop early in the following spring, suitable either for consumption as green food or for hay. 15 to 20 pounds should be sown to the acre, according to the quality of the ground. 20c. per lb. Write for prices in quantity.

Grass Seed awn

> 10" HEA (100"19" AUD') THE

AWN

AND CARE OF

THE ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as smooth as possible, so that the grass may present an even ap-pearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, four bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start before cutting, and then it should be trimmed with a lawn-mower about every ten days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

ERGREEN LAWN GRASS

In our selected Evergreen Lawn Mixture, containing different varieties that grow and flourish at different months of the year, so that a rich, green, velvety lawn is constantly maintained. It is adapted to the small grass plots of city homes. Fint, 15c. Quart, 25c.; by mail, 30c. ½-Peck, 75c. Peck, \$1.50. Bushel of 20 pounds, \$6.00. By freight or express not prepaid.

GRASS AKK

This mixture docs not contain so much of the high-priced grasses as our Evergreen the cheap grades offered, and will make a very nice lawn. Quart, 25c. Peck, \$1.25. our Evergreen Lawn Grass, but it is superior to many of c. Peck, \$1.25. Bushel of 16 Pounds, \$5.00.

GRIFFITH & TURNER CO.'S GOLF INK MIXTURE

There being a growing demand for a grass mixture suitable for golf and cricket grounds, we have made a study of the grasses best adapted to these purposes, and have them mixed in proper proportions to give desired results. Many of the public and private grounds around Baltimore and other places have been sown with our mixtures, and the grounds have won the admiration of thousands of visitors. It is highly essential that golf and cricket grounds should be mowed closer than ordinary lawns. 14 pounds to bushel. Bushel, \$6.00. 10-Bushel Lots, \$5.50 Bushel.

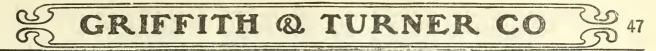
On nearly all lawns there are bare spots under the shade of frees. With this mixture the above can be easily corrected. It is a combination of grasses which are found growing in the woods in their natural state. Ground that has been densely shaded by trees is frequently "sour" and is apt to be covered with moss. In such cases apply slacked lime at the rate of one bushel per thousand square feet, but the moss should be first removed with a rake. **Price: Lb.**, 35c. 5 lbs., \$1.65. Bushel of 20 lbs., \$6.00. Add 8c. for postage.

"TERRACE MIXTURE SOD

A special mixture of grasses best suited for sowing on terraces, railroad emhankments and side hills-grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out; that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, velvety green turf throughout the scason. Qt., 35c. Peck, \$2.00. Bushel of 20 lbs., \$6.00.

VER (TRIFOLIUM REPENS)

The best variety for lawns, as it forms a close herbage and remains green throughout the season. It is also valuable when mixed with grass seeds for pasture. Sow in spring at the rate of 6 pounds per acre when sown alone; half the quantity when sown with other grasses. Pound, 60c. By mail, 65c. 10 pounds, by express, not prepaid, \$6.00.



UNITED STATES FOOD ADMINISTRATION LICENSE No. G 22972.

SHOULD BE SOWN IN THIS LATITUDE. NOT BEFORE MAY 15th. AS THE SEED WILL NOT STAND COOL, WET WEATHER.



The great soil enricher. Makes poor land rich and good land better. They also make good green forage for ensilage, and the best quality of Hay when cut and cured.

The sowing of **COW PEAS** is one of the cheapest as well as the best means of improving the soil. They can be turned down for green manuring, or, if allowed to ripen, cut Peas off and cure for hay; turn down roots, which will give as good results as when whole plant is used. For ensilage they are unsurpassed, being more nutritious than green corn, but when used for this purpose, would advise sowing Sugar Cane or Sorghum in connection with them. The two com-bined will make one of the very richest feeds. Ask for prices. **BLACK**—This is the standard variety, and the one most largely grown in this immediate section. It is very prolific, makes a fine growth, both of vine and leaves, and a good yield of peas. It is a splendid land-improver, and most valu-able as a forage crop, and makes an enormous yield of rich, nutritious feed. **WHIPPOORWILL**—A favorite, early, upright-growing variety, more largely used and sold than any other kind. Has brown speckled seed, which are easily gathered. Makes a good growth of vine, which can be easily cut and cured as dry forage. We recommend this where an early variety of good growth and height is desired. **WONDERFUL**, **OR UNKNOWN**—This makes an enormous and remarkable The sowing of COW PEAS is one of the cheapest as well as the best means of

WONDERFUL, OR UNKNOWN—This makes an enormous and remarkable growth of vines, but requires the full growing season to make its crop. In yield and growth of vines it surpasses any of the varieties of Cow Peas, and it pro-duces very largely of the shelled peas. This variety should be planted in May in order to come to full maturity.

NEW ERA—An early maturing variety which has proved very popular and satisfactory. It is upright growing, quick to mature, and remarkably prolific of peas. Rather small vine, which cures easily, making splendid dry forage. The seed are smaller in size than the ordinary cow-pea, so that it does not require as many to seed an acre; from three-fourths to one bushel per acre will give ample seeding. **FRICES ON APPLICATION.**

SORGHUM, OR SUGAR CANE

EARLY AMBER grows 10 to 13 feet high, and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Sow 3 or 4 quarts per acre in drills and cultivate same as sorn. For hay, sow one bushel per acre broadcast. **Pound**, 10c.

EARLY ORANGE has a large, strong growth, but requires longer time to mature than the Early mber. Very popular in the South, where there are long seasons. Prices same as Early Amber. Amber.

SOJA BEANS

The great drought-resisting forage crop; unsurpassed in nutritive value for feeding; also makes a splendid soil improver. Sow broadcast one-half bushel to the acre, or it may be planted in drifts three feet apart and one foot between plants. Price on application.

MAMMOTH YELLOW SOJAS

The largest-growing and most popular of soja beans for forage purposes. A little later in matur-ity than other kinds, but makes larger yields, both of forage and seed. Especially valuable for the South.



SOJA BEANS

HOLLYBROOK EARLY SOJAS

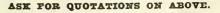
Makes a quicker growth and matures their crop two to three weeks earlier than the Mammoth Yellow Soja. It makes a large yield, both of for-age and peas, and the added advantage of its earliness makes it a most distinct and valuable acqui-sition. It is a sure cropper and a vigorous, quick-growing variety. Sown as a forage or hay crop, it is much easier to cure and handle, and makes even a more nutritious crop than cow-peas.

WILSON BLACK SOJAS

One of the best, in our opinion. for the Northern States, where a quick, early variety is de-sired. Average height on good land is 2½ to 3 feet. A very prolific variety, and requires about 90 days to be ready to cut for hay.

KAFFIR CORN

The heads contain small white seeds. which make an excellent flour. They are greedily eaten by horses and cattle, and make fine feed for poul-try, either fed in the grain or ground and cooked. Use 4 to 5 lbs. to acre. **Price, Pound, 10c. Ten Donnde** Pounds,





EARLY AMBER CANE



GENUINE KAFFIR CORN



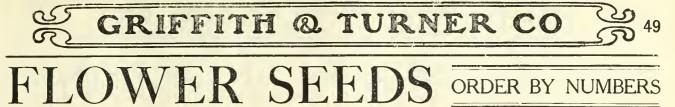
VETCHES OR TARES

TEOSINTE

A most valuable and enormous-yielding cutting forage crop, but should be planted very early to succeed well. Good to use as green food, and also makes an excellent fodder. It branches as many as 50 stalks from one seed. Plant in May or June in rows 4 to 5 feet apart each way. Oz., loc. 1/4 Lb., 35c. Lb., \$1.25, postpaid. FLAXSEED.-Lb., 20c. 3 lbs., 50c.

VETCHES.

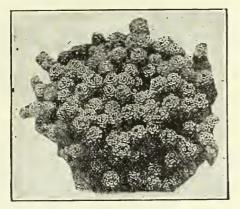
PRICES SUBJECT TO CHANGE. ASK FOR QUOTATIONS ON QUANTITIES.



GENERAL DIRECTIONS FOR CULTIVATION.

Hardy Flower Seeds should be sown in the open, after danger of frost is past, in well-worked and moist soil. Seeds of medium size, put at depth of one-quarter to one-half inch. Very fine seeds, press into the soil, and cover slightly with a little sand or sphagnum moss. If seed is not deep, water frequently. When up, transplant from two to twelve inches apart, according to variety of plants. Do not leave too thick, as the plants will be weak and spindling. Keep weeds out of the flower beds. Annuals may be planted in early spring, and bloom the first season only. Biennials bloom the second year from seed and then die. Perennials bloom the second year from seed, and plants live to bloom during successive years. Varieties marked ("A") stand for Annuals. Marked ("B") Biennials. Marked ("P") Perennials.

1. AGERATUM—Mixed (A)—Feathery flowers borne in dense clusters, blooming nearly all summer, and useful for bouquets, borders or bedding. Mostly White aand Blue blooms. Facket, 5c. each.



TOM THUMB ALYSSUM.

C. ALYSSUM, Sweet (A)—Small white flowers of delicate fragrance. Now seed in open ground, very early in spring. Packet, 5c.

11. ALYSSUM (A) (Tom Thumb)—Of dwarf, compact habit, each plant covering a circle from 15 to 30 inches. It will bloom when small, and remain covered with bloom from spring to autumn. **Packet**, 5c.

20. AMARANTHUS, MIXED (A)—Showy blooming plants, with long racemes of cerious-looking flowers and brilliant foliage; half-hardy annuals. Packet, 5c.

21. AMARANTHUS, TRI-COLOR (Joseph's Coat) (A)-Red, yellow and green foliage; 2 feet. Packet, 5c.

22. AMARANTHUS CAUDATUS (Love Lies Bleeding) (A)—Graceful and handsome flowers of blood-red hue. Packet, 5c.

24. ANTIRRHINUM, MIXED (P)-(Snapdragon)-Halfhardy, growing from $1\frac{1}{2}$ to 3 ft.; oddly-shaped flowers on long spikes; easy culture. Packet, 5c.

ASTERS

Sow seed in March and April in cold-frame or boxes in the house, covering them $\frac{1}{4}$ -inch deep, and when plants have three or four leaves, transplant about 18 inches apart each way into well-prepared beds.

25. CHINA (A)-Choice mixed varieties. Packet, 5c.

27. TRUFFAUT'S PERFECTION (A)—A very favorite class; thrifty, upright growers; flowers large, almost perfectly round, with incurved petals. The florist's preference; 1½ to 2 feet. Packet, 10c.

28. **PRINCESS SNOWBALL (A)**—The flowers are pure white, and are formed of short, thickly set imbricated petals, there being about 25 to 30 on a plant. **Packet**, 10c.

20. VICTORIA (A)—The most beautiful of all Asters, bearing flowers of all colors and shades; the colors include many extremely delicate and gorgeous shades. Very double and four inches across; height, 15 to 18 inches. **Packet, 10c.**

31. COMET (A)—This class of Asters has long, slender and curled petals, forming loose yet dense flowers of semiglobe shape, $3\frac{1}{2}$ to $4\frac{1}{2}$ inches in diameter, which resemble the Japanese Chrysanthemum. **Packet**, **10c**. **33. BRANCHING, MIXED (A)**—A choice strain of American-grown Asters, which has, by careful selection, been brought to a high degree of excellence. **Packet, 10c.**



33-SEMPLE'S BRANCHING.

34. BRANCHING (A) (White)-Very choice. Packet, 10c.

35. BACHELOR'S BUTTON, or BLUE BOTTLE (A)—Centaurea Cyanus)—A very old favorite garden annual, with handsome flowers of various colors. It does best if sown in a hot-bed; half-hardy annuals; 2 feet. Packet, 5c.

40. DOUBLE BALSAMS, CAMELIA FLOWERED (A) (Lady Slipper)—One of the finest summer-blooming annuals, free bloomers and highly colored. By transplanting them once or twice, the flowers are apt to be more double. Pkt., 5c.

41. BALSAM, PERFECTION WHITE (A)—This resembles the mixed Balsams in shape, but the flowers are of a pure white. Packet, 10c.

CANDYTUFT—Almost as fragrant as Sweet Alyssum; very popular and useful as bedding plant or border work. Sow out of doors early in spring, where they are to bloom, and thin well when the plants grow about an inch; then sow again in July for fall flowers.

45. MIXED (A)-Packet, 5c.

46. WHITE (A)-Packet, 5c.

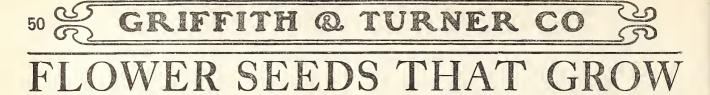
53. CALENDULA, DOUBLE (A)—Very profuse dwarf bushy annuals, blooming continuously and profusely until frost; of easy culture, and suitable for summer garden or for growing in pots in winter. **Packet**, 5c.

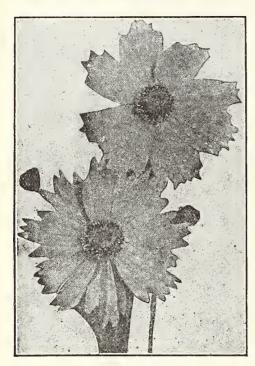
55. CANNA, MIXED (Extra Choice) (A)—The Cannas are desirable not only for the beauty of their spikes of flowers, but for their highly ornamental leaves. They make superb beds for the lawn. Soak the seeds thoroughly before planting, and keep in a warm spot. Very slow to germinate. Packet, 5c.

CANTERBURY BELLS—Beautiful hardy biennials, bearing a profusion of bell-shaped flowers of exquisite colors. Does best in a rich, light soil. Height, 2½ feet.

60. CANTERBURY BELLS, SINGLE MIXED (Campanula) (B)-Packet, 5c.

61. CANTERBURY BELLS, DOUBLE MIXED (B)-Packet, 5c.





CALLIOPSIS.

88. COWSLIP (P) .- Beautiful hardy spring flowers of different colors. Packet, 10c.

90. CONVOLVULUS, TRI-COLOR MINOR (Dwarf Morning Glory) (A) .--- A beautiful class of hardy annuals, affording a large, showy mass of flowers from July to October. Packet, 5c.

93. COREOPSIS (Calliopsis) (P.)-Beautiful annuals, with large bright golden yellow flowers, varied with rich brown. Excellent for cutting and decoration. Height, 2 feet. Packet, 5c.

93a. COREOPSIS LANCEOLATA (P).-IM-PROVED (California Sunbeams) .- This is one of the finest of hardy plants, with large, showy, bright golden-yellow flowers, freely produced on long stalks, from June till frost; excellent for cutting; will thrive in almost any situation. Packet, 5c.

COSMOS. One of the very finest late summer and fall flowers; excellent cut flowers. The bushes grow tall, six to eight feet, and are loaded with large showy blossoms, in white, pink or crimson. Cosmos should be in every garden. Sow the seed early and transplant, or later in spring where it is to remain. Hardy annual

Hardy annual. 94. Early Flowering Dawn (A).—White slightly tinted with pink. Packet, Joc. 95. Mixed (A).—Packet, 5c. Oz., 25c.

- 95a. Pink (A) .- Packet, 5c.
- 95b. White (A) .- Packet, 5c.
- 95c. Crimson (A) .- Packet, 5c.

95d. NEW MARGUERITE COSMOS (A).-One of he prettiest and daintiest varieties imaginable. the Packet, 10c.

68a. CENTAUREA GYMNOCARPA .--- Fine Cut silver-gray foliage; 1½ feet. Packet, 5c.

68. CENTAURA CANDIDISSIMA .--- Silver white; leaves broadly cut. Packet, 5c.

70. CHRYSANTHEMUMS, SINGLE, MIXED (A).—Showy effective garden favorites extensively grown for cut flowers. and The hardy annuals are summer flowering border plants; good for pot culture and quite distinct from the autumn flowering varieties. Packet, 5c.

71. CHRYSANTHEMUMS FRUTESCENS (A) .--- (The Marguerite, or Paris Daisy.)-It produces freely its white, star-like flowers under the most favorable conditions. Packet, 10c.

CINERARIA.-Seed should be sown in well-drained seed pans or shallow pots of light rich soil, giving the seed but a very slight covering. Place a piece of glass over the pot to retain moisture. When the plants have made their first pair of leaves they should be potted off into smaller pots. As fast as the pots are full of roots, shift into larger ones till the flowering size is reached.

75. CINERARIA (Dusty Miller) (P.)—Fine for bedding, ribbon beds and margains; prized for their beautiful, downy, silvery foliage; half-hardy perennials; 2 feet. Packet, 5c.

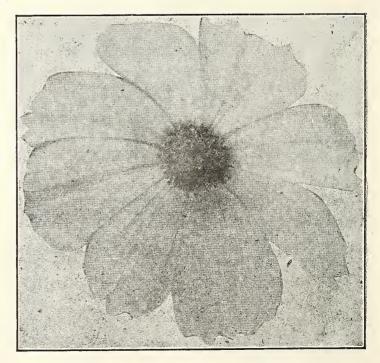
76. CINERARIA HYBRIDA (P).-Large flowered prize varieties; very attractive, free blooming plants, producing large and brilliant flowers.

77. CINERARIA HYBRIDA DWARF (P).-Large flowered, dwarf prize varieties; splendid strain.

CLARKIA (A)-Hardy annual, of easy cultivation, graceful in 80. habit and growth. Long stemmed flowers, resembling chrysanthemums, growing 1 foot high, from July to October. Packet, 5c.

85. COCKSCOMBS (Celosia Cristata) (A) .- Very popular annuals of the easiest culture, highly ornamental for decoration of the greenhouse, drawing-room and garden. Half-hardy annuals. Packet, 5c.

COCKSCOMBS, GLASGOW PRIZE (A) .-- Immense, showy, dark crimson combs. 10c.



COSMOS

CHOICE FLOWER SEEDS

DAHLIA.

One of our best autumnal flowering plants. Blooms until killed by frost; tuberous-rooted, half-hardy perennials, blooming the first year from seed if sown early.

100. SINGLE MIXED (A)-Large, showy flowers. Packet, 5c.

100a. CACTUS DAHLIA (A)-A most curious and desirable variety of many colors. Packet, 5c.

DAHLIA ROOTS AND PLANTS IN GREAT VARIETY-(See Plant Department for full description of the many kinds and prices.)

DAISY.

Well-known favorites, admirably adapted for edgings, borders and low beds, and it is also suited for growing in pots. Although they are perennials, they will flower the same season if seed is sown early in the house.

97. DAISY, MIXED (P)-Packet, 10c. 98. LONGFELLOW (P)-Large, double pink. Packet, 10c.

99. SNOWBALL (P)-Very double, pure white flowers. Packet, 10c.

103. FEVER-FEW (GOLDEN FEATHER) (Pyrethrum Aureum) (P)—A highly ornamental golden-yellow foliage plant, unexcelled for bedding. Hardy perennial; 1½ feet. Packet, 5c.

105. FORGET-ME-NOTS (Myosotis) (P)—Neat and beautiful little plants, with star-like flowers, succeeding best in a shady, moist situation; half-hardy perennials; blooming the first year from seed if sown early. **Packet**, 5c.

106. FOXGLOVE (DIGITALIS) (P)—A handsome and highly ornamental hardy perennial plant of stately growth; fine for shrubberies and other half-hardy places; 3 feet. Packet, 5c.

107. GERANIUM (New Zonale) (A)—A grand strain of Geraniums, containing all shades of colors. Packet, 10c.

108. GODETIA—Profuse-blooming annuals of beautiful colors; fine for bedding or pot culture. Hardy annuals. 1 foot. **Packet**, 5c.

109. GAILLARDIA (A)—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals. Packet, 5c.

110. GILIA MIXED (A)—Very pretty dwarf plants, early, free blooming; fine for massing and rock work. Hardy annuals. Packet, 5c.

112. HELIOTROPE—A half-hardy perennial, growing 4 to 8 feet high. Small flowers, borne in graceful clusters, and very fragrant. Will bloom the first season from seed if sown early. **Packet, 5c.** .

115. HOLLYHOCK, CHATERS SUPERE MIXED (P)—Perennial plants of stately growth. The blossoms are set as double and semi-double rosettes around the flower stalk in almost every color. Makes a charming hedge or background. Packet, 5c.

116. HOLLYHOCK, CHATERS DOUBLE WHITE (P)-Packet, 10c.

120. LARKSPUR (Delphinum) (A)-One of the most showy and useful plants, possessing almost every requisite for adornment of the garden. Pkt., 5c.

121. LARKSPUR EMPEROR (P)—Of symmetrical bushy habit, with a profusion of brilliant dark-blue, red-striped and tri-colored flowers. Packet, 5c.

LOBELIA.

A beautiful and popular flower, very desirable for pot culture, beds or hanging baskets because of its trailing habits. Grows easily, and does well in beds and rockeries. Bears a profusion of blue and white flowers.

122. MIXED VARIETIES (A)—Packet, 5c. 123. CRYSTAL PALACE COMPACTA (A) —Rich deep blue. The finest for bedding. Packet, 10c.

MIGNONETTE—The delightful fragrance of the Mignonette makes it a universal favorite. Sow seed in the fall for early blossoms in the spring. Valuable for potting, bedding or for border.

135. MIGNONETTE — SWEET (Reseda Odorata—A well-known and universal garden favorite, and one that requires no extra instructions for growing. Hardy annuals. Packet, 5c. Oz., 15c. 136. **MIGNONETTE—PYRAMIDAL**—Large flowered. The largest flowered of all Mignonettes. Annual. **Packet**, 5c.

137. MACHET-True dwarf-growing variety; enormous spikes of beautiful, deep reddish crimson flowers; height, 1 foot. **Per** Packet, 10c.

138. MIGNONETTE VICTORIA (A) — A splendid new, compact-growing variety of dense pyramidal, growing about six inches high. The flowers are of a brilliant red, and are suitable for pot or garden. Facket, 10c.

139. ALLEN'S DEFIANCE (A) — When grown under favorable conditions, and with proper care, spikes will not only be of remarkable size—from 12 to 15 inches long—but deliciously fragrant; much more so than any other variety. **Packet**, 10c.

140. GOLDEN MACHET MIGNONETTE (A)—Distinct new variety of the well-known Machet of the same compact and robust habit, but differing from the type by its massive spikes of golden-yellow blossoms.

Packet, 5c.

GAILLARDIA.







HIGH-GRADE FLOWER SEEDS

GRIFFITH @ TURNER CO

125. MARIGOLD, DOUBLE AFRICAN (A)—A well-known free-flowering plant, of easy culture, with rich and beautiful double various-colored flowers. Facket, 5c. 126. MARIGOLD, DOUBLE FRANCH (A)—Of compact habit, with numerous bright, showy flowers. Very fine.

habit, with numerous bright, showy flowers. Very fine. Packet, 5c. 130. MARVEL OF PERU, or FOUR O'CLOCE (Mirabilis Jalapa) (A)—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same

Howers are binner, singularly index and varied on the same plant. Two feet. Packet, 5c.
 131. MATTHIOLA BICORNIS (A)—Flowers dull purplish-lilac, but well worth growing for the charming fragrance which it emits during the evening. Facket, 5c.
 133. MESEMBEVANTHEMUM CHRYSTALINUM (Ice

133. MESEMBRYANTHEMUM CHRYSTALINUM (Ice Plant) (A)—Dwarf spreading plants of great beauty, bloom-ing the entire summer, succeeding best in dry, sandy or loamy soil, and in a warm locality. Half-hardy annuals. Packet, 5c. 134. MIMULUS—The beautiful Monkey Flower. Packet, 5c.

NASTURTIUMS

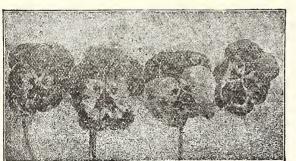
Few plants are so useful or rich in color as the Nastur-tiums. When well started, young plants should be trans-planted or thinned out to stand six or more inches apart. Seed should be covered one inch in depth and, if at all dry, the soil should be firmly pressed above the seed, so as to enter closely the corrugations. 142. DWARF MIXED—The dwarf variety of Nasturtium is among the most useful and beautiful of annuals for bed-ding, massing, etc., owing to their compact growth, richness of color and profusion of bloom; mixed colors. Packet, 5c. 02., 15c. 143. DWARF—AURORA—Blush white and salmon, blotched with garnet. Packet, 5c. 02., 15c. 144. DWARF—BEAUTY—Bright scarlet, striped with yel-ow. Packet, 5c. 02., 15c. 145. DWARF (Empress of India)—Very dark foliage, with deep crimson flowers. Facket, 5c. 146. DWARF (Colden King)—Brilliant yellow, with dark foliage. Facket, 5c. 147. DWARF (King of Tom Thumb)—Brilliant yellow flowers, blotched with maroon; dark foliage. Packet, 5c.

Packet, 5c

148. DWARF (Ruby King)-Light ruby red. Packet, 5c.;

148. DWARF (Ruby King)—Light ruby red. Packet, 5c.; oz., 15c. 149. DWARF (Cloth of Gold)—Golden yellow foliage, light scarlet flowers. Packet, 5c. 150. KING THEODORE—DWARF—Scarlet maroon; black-brown foliage. Packet, 5c. 310. TALL MIXED—Elegant, profuse, flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for pickling. Packet, 5c.; oz., 10c.

PANSIES-Annuals



155. HEARTSEASE—Mixed. An old but universally ad-mired plant, producing an endless variety of color. They may be treated as annuals. **Packet, 5c.**

GIANT TRIMARDEAU-Remarkable for the extra large size of the flower and an endless variety of beautiful shades. Packet, 10c.

157. G. & T. CO.'S EXTRA MIXED-This mixture, containing the finest blotched varieties, is grown and selected with special care, and has given the most satisfactory results to both florists and amateurs in the past. **Packet**, 15c.

NASTURTIUM



Thrive best in a moist, shady location, and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers late in the spring. The plants must be transplanted twice in order to get the largest flowers; once from the seed box to a chosen bed, and again to the open garden. This is important for large-size pansies; use manure liberally. The blossoms are usually larger in the spring and again in the fall, and while they bloom freely all summer, the blossoms are small during the hot months. While the plants carry over well with a little covering during the winter, it is best to plant new seed each year.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PETUNIAS:

Favorite, halfhardy, succeed-ing well in any rich soil. For the brilliancy the brilliancy and variety of the colors, and the long duration of their blooming period, they are indispensable in one orden Sow the

indispensable in any garden. Sow seed early in thinly on an cron surface, and barely cover the seed with sand. If intended for the open ground, prick out into a frame to be kept till planting-out time. If for pots, pot singly into small pots in strong rich soil mixed with sand, and shift as the plants grow larger. FINE MIXED—Good mixture of small free-blooming colors. Packet, 5c. 167. DOUBLE PETUNIA—About at

167. DOUBLE PETUNIA-About cent. will produce double flowers. Pkt., 25c.

168. **PETUNIA** — Double-Fringed Mixed — The flowers of this sort being double, together with being fringed, are very beautiful. **Pkt., 25c.**

175. PHLOX DRUMMONDII (A)—A most brilliant and beautiful hardy annual, about 1 foot high, well adapted for bedding, making a dazzling show through the whole season. It succeeds well on almost any soil. Packet, 5c. 176. PHLOX DRUMMONDII—(Nana Com-pacta) (A)—Very fine mixed. This new strain is of dwarf, compact habit, and makes desir-able pot plants:

able pot plants; also excellent

cxcellent for ribbon lines and massing





RICINUS (Castor Bean).

= RELIABLE =

FLOWER SEEDS

PINKS-(DIANTHUS).

Seed may be sown in the open ground in spring after danger of frost is past in the place where the plants are wanted to bloom. Use well-pulverized soil, preferably sandy loam. Make the rows one foot to 15 inches apart, and cover the seed with one-fourth inch of fine soil, firmly pressed down. When 2 inches high, thin 6 to 8 inches apart.

180. PINK CARNATION, or PICOTEE. (Choicest Double Mixed Dianthus Caryophylus)-Carnation and Picotee Pinks are generally favorites for their delicious fragrance, richness of colors and profuse bloom. Perennial. Pkt., 10c.

182. PINK CARNATION-MARGUERITE-These lovely, fragrant Carnations produce fine double flowers. From seed sown in the garden early in the spring, the plants begin to bloom in about four months. All colors mixed. The finest strain. Per Packet, 10c.

185. PINK-(CHINA OR INDIAN PINK)-Blooms in clusters, flowers very double and bloom in a large range of bright colors. Packet, 5c.

188. PINK-HEDDEWEGI (P)-Beautiful double flowers in a great variety of colors, with fringed white edges. Packet, 5c.

200. **POPPY-CARNATION (Papaver) (A)**—A showy and easily cultivated hardy annual, with large brilliant colored flowers, growing freely in any garden soil. **Packet**, 5c.

201. POPPY-PEONY FLOWERED (A)-A magnificent species, la showy, double globule flowers, resembling Peonies in shape. Packet, 5c. large,

SHIRLEY POPPY (A)-These beautiful Poppies are generally single 202. or semi-double. The colors, extending from one extreme to the other, are so varied that scarcely two are alike, while many are striped and blotched. The blooms, if cut when young, will stand for two or three days. **Packet, 5c.**

203. TULIP POPPY (A)—A magnificent species. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet. Packet, 5c.

204. ICELAND POPPIES, MIXED (A)-Although hardy perennials, these Poppies bloom the first season from spring-sown seed. The fragrant, elegant, crushed satin-like flowers are produced in neverceasing succession from the beginning of June to October. Packet, 5c.

195. PORTULACA (Mexican Rose) (A)-One of the finest hardy annual plants, of easy culture, thriving best in rather rich, light loam or sandy soil; the single-flowering varieties are large and brilliant, of the richest shades of color, and produced throughout the summer in great profusion; fine for massing in beds or edgings of rock work. Pkt., 5c.

196. DOUBLE PORTULACA (A)-Packet, 10c.

RICINUS (Castor Bean).

Stately, strong-growing plants, with very ornamental foliage, well adapted as center plants of groups of Cannas, Dahlias, etc. Moles are troublesome in many gardens, but they may be kept away by planting Castor Beans in the borders.

212. RICINUS, CAMBOGIENSIS (A)-Large leaves, dark bronzymaroon; stalk and stems nearly black; 5 feet. Packet, 5c.

212¹/₂. **RICINUS ZANZIEARIENSIS, MIXED (A)**—Their immense leaves and gigantic plants exceed all other varieties. Packet, 5c.

213. SCABIOSA-GRANDIFLORA (P)-An old-fashioned but most attractive flower. Its great abundance and long succession of richly colored, fragrant blossoms on long stems make it one of the most useful decorative plants of the garden. Seed may be sown in place as soon as ground can be worked; or, for earlier blooming, sow in hotbed early in spring and transplant one and one-half feet apart. Hardy annual; 12 to 18 inches high. Packet, 10c.

54 GRIFFITH @ TURNER CO S THE BEST FLOWER SEEDS



Salvia Splendens.



DIANTHUS BARBATUS ("Sweet William.")

215. SCARLET SAGE (Salvia Splendens) (A)—Tall, erect, green foliage. A favorite greenhouse and bedding plant, bearing long spikes of flowers in great profusion from July to October; half-hardy perennial, blooming the first year from seed. Three feet. Packet, 5c. ¼ Oz., 45c.

220. SENSITIVE PLANT (Mimosa)—Curious and interesting plants, with pinkish-white flowers; the leaves close in and droop when touched or shaken; tender annual. Packet, 5c.

230. TEN WEEKS STOCKS (Gillifower)—A world-wide favorite, briliant and varied in color, equally well-adapted for massing, bedding, edging or pot culture. Very profuse bloomers. Should be grown in rich soil. Packet, 5c.

231. STOCKS—SNOWFLAKE IMPROVED—A beautiful dwarf-growing variety; very large, double, snow-white flowers. **Packet**, 10c.

237. SWEET ROCKET (Hesperis) (A)—Very pleasing, early spring flowering, profuse blooming plants, with fragrant flowers, growing freely in any light, rich soil. Packet, 5c.

240. SWEET WILLIAM (Dianthus Barbatus (P)—A well-known free flowering, popular favorite; the great improvements upon the old varieties made within the last few years have rendered it still more desirable. Hardy perennials. Packet, 5c.

243. SWEET VIOLET (A)—Deservedly much in demand, because of their profusion of bloom and delicate, sweet odor. Packet, 10c.

245. MAMMOTH VERBENA (A)—One of the most popular and useful bedding plants. Verbenas delight in sunny situation, rich soil and thorough cultivation. Packet, 5c.

VINCA (Periwinkle)—Very attractive bushy plants, with glossy green foliage, producing in abundance handsome round or salver shaped single flowers, suitable either for culture in pots or boxes or for summer bedding and borders.

250. VINCA ROSA (A)-Rose with dark eye. Packet, 5c.

251. VINCA ALBA (A)-White, with crimson eye. Packet, 5c.

255. WALLFLOWER, DOUBLE (A)—Well-known, deliciously fragrant plants with large spikes of double flowers, similar to the Gilliflower. Succeed in light, rich soil, in a moist atmosphere. Perennials. **Packet, 10c.**

ZINNIAS

Very showy plants, with large, double imbricated flowers, which, when fully expanded, might easily be mistaken for dwarf dahlias. There is much satisfaction in a bed of Zinnias, for when nearly every other flower has been killed by frost, this plant is still in full bloom more abundantly throughout the season. Sow the seed early in spring, in open ground, and transplant to one and one-half feet apart in good, rich soil. Half-hardy annual; about eighteen inches high.

258. ZINNIA ELEGANS (Youth and Old Age (A)— This is one of the most brilliant of annuals, and has long been a general favorite. The flowers are large, finely formed, in great variety of colors, and continue to bloom the entire season. Half-hardy annuals. **Packet**, 5c.

259. ZINNIAS CURLED AND CRESTED (A)—New, odd and superb. Petals twisted, curled and crested into fantastic contortions and graceful forms. A magnificent variety of colors. Packet, 5c.

260. ZINNIA-DOUBLE POMPON (A)-Long, coneshaped flowers, very fine. Packet, 5c.

ZINNIA-CRIMSON-Packet, 10c.

ZINNIA-WHITE-Packet, 10c.

GENERAL LIST OF CLIMBERS

GRIFFITH @ TURNER CO

270. BALSAM APPLE (Momordica) (A)—Very curious trailing vines, with ornamental foliage; fruit golden yellow; when ripe, opens, showing the seeds and its brilliant carmine interior. Packet, 5c.

272. BALLOON VINE (Love in a Puff) (A)—A rapid growing plant; succeeds best in light soil and warm situation; flowers white; half-hardy annual. Packet, 5c.

275. CANARY BIRD FLOWER (Peregrinum) (A)—With yellow, canary-like flowers; very ornamental and beautiful foliage; half-hardy. Packet, 5c.

276. COBEA SCANDENS (P)—A beautiful, rapid-growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows 20 to 30 feet high. Packet, 10c.

278. CYPRESS VINE, RED (Ipomea Quamoclit) (A)—One of our most popular vines, with very delicate fern-like foliage, and masses of beautiful, small, star-shaped flowers. Sow last of May; 15 feet. Packet, 5c.

279. CYPRESS VINE, WHITE (A)—Usually grown with the red, making a handsome effect. Packet, 5c.

282. MAURANDIA (Barclayana) (A)—These charming climbers cannot be too highly praised for their beautiful flowers and foliage. They are admirably adapted for hanging baskets, vases or trellis work. **Packet**, 5c.

GOURDS

These are desirable in many places where an immense amount of vine is wanted quickly. Most sorts are good for 20 to 30 feet in a season, and the blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful. The small fancy gourds are excellent toys for children, while the larger gourds may be used as dippers, sugar troughs and bowls.



285. MIXED GOURD (Cucurbita) (A)—Packet, 5c.
286. NEST EGG GOURD (A)—White fruit, shaped like an egg. Used as a substitute for nest eggs. Packet, 5c.

DISHCLOTH GOURD—Many women prefer a dishcloth made of this Gourd to anything else, as it is always sweet and clean as long as any part of it is left. **Packet**, 5c.

288. DIPPER GOURD (A)—Makes an excellent dipper. Packet, 5c.

290. MOCK ORANGE (P)—Fruit shaped like an orange. Packet, 5c.

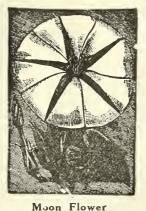
291. CALABASH OR PIPE GOURD-Odd-shaped fruit, which is used to an advantage in making pipes. Packet, 5c.

295. HEAVENLY BLUE IPOMEA (A)—The flowers are in large, airy clusters, and of that lovely hue so rarely seen. Flowers four to five inches across. Packet, 5c. 300. MORNING GLORY (Convolvulus Major)—One of the most free-flowering and rapidly-growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals. Packet, 5c.



302. GIANT JAPANESE MORNING GLORY (See Cut)— This plant has been developed to such a state of perfection that it now produces flowers of immense size and almost endless variety of color and markings. Some of the flowers are brilliant red, or rich blue self-colored; others are equally brilliant, with broad margins of clear white. Not only are the flowers varied, but the foliage is equally so; some of it comes plain green, and part is mottled with white and shades of yellow or yellowish green. Packet, 10c. Ounce, 20c.

305. MOON FLOWER (Ipomoea Noctifiora)—Charming and popular blooming climbers; of rapid growth and showy effects; warm, rich soil, with a sunny exposure, suits them. **Packet**, 5c.



162. PASSION FLOWER (Southern Beauty)—A most interesting and well-known order of climbers, bearing singularly beautiful flowers.

320. SCARLET RUNNERS-Very handsome climbing Beans, with bright scarlet flowers.

Packet, 5c.

326. SMILAX — Charming climber for greenhouses or window gardens.



CULTURE.

Sweet Peas should be sown in drills latter part of Novem-ber for fall planting, or as early as possible in spring, in rich, friable soil. Prepare the bed thoroughly, working in a quan-tity of well-rotted manure, if it can be done, making a furrow 4 to 6 inches deep. In this sow the seed and cover 2 inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer. As fast as the flowers come into full bloom or fade they should be cut off, for if the pods are allowed to form the plants will stop blooming.

377. G. & T. CO.'S EXTRA FINE, MIXED—Consists of the very choicest varieties mixed in the newest colors and shades. Facket, 5c.; oz., 10c.; 1/4 lb., 25c.; 1/2 lb., 5Jc.; 10., \$1.00. Postage, 6c. per lb. Extra.

378. ECKFORD'S FINE MIXED-One of the finest mixtures of the Eckford varieties.

Facket, 5c.; oz., 10c.; 1/4 lb., 25c.; 1/2 lb., 50c.; lb., \$1.00. Postage, 6c. per lb. Extra.

379. SUPERE SFENCER MIXTURE—This mixture is made up from our carefully prepared formula. It contains practically all the true Spencer varieties introduced to date. Great atten-tion is given to secure a beautiful light mixture, and yet in-clude all shades, nicely balanced and proportioned. Per oz., 15c.; 1/4 1b., 50c.; 1 1b., \$1.50.

Grandiflora Sweet Peas

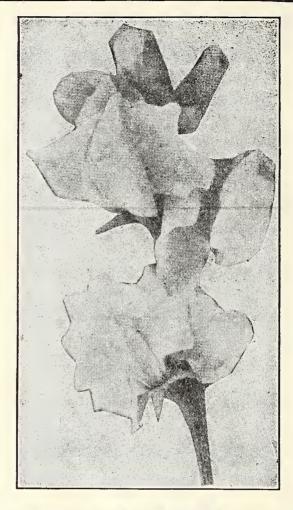
Price: Per pkt., 5c.; oz., 10c.; 1/4 1b., 25c.; 1/2 1b., 50c.; 1b., \$1.00. Postage, 6c. per 1b. Extra.

- AGNES ECKFORD-Beautiful soft, light pink. 350.
- 251. AMERICA-Bright red and white striped.
- 252. JEANNIE GORDON-Standard bright rose; wings primrose, tinted with light rose.
- **C33.** AURORA-White, with stripes and flakes of orangepink.
- BLACK KNIGHT-Glossy deep maroon, open form. 354. BLANCHE BURPEE-Pure white. 355.
- 356. BLANCHE FERRY-Standard bright crimson-rose; wings white, tinged with pink.
- 357. BOLTON'S PINK-Orange or salmon-pink, veined with rose
- 258. LORD NELSON-A darker strain of navy blue; very dark.
 - 359.
- **COCCINEA**—Pure cerise; self-color. **COUNTESS OF RADNOE**—Light mauve standard; 360. lavender wings.
- **231. DAINTY**—Pure white, edged with light pink and standard, and wings almost true white, with pink edges. **362. DUKE OF WESTMINSTER**—Standard clear purple;
- wings violet.

363. EMILY HENDERSON—Pure white; a vigorous grower.

- 364. HENRY ECKFORD-Almost clear salmon; self-color; nearest approach to orange sweet peas.
- HELEN PIERCE-Pure white; veined, mottled and 365. marbled with bright blue. 366. HON. MRS. E. KENYON-Primrose; large semi-
- hooded form.
- 367. ROMOLO PIAZZANI-Rose-purple; large flowers of best type.
- 368. KATHERINE TRACY-Standard soft pink; wings lighter tone; almost self-color.
- 369. KING EDWARD VII-Bright red or crimson scarlet.
- 370. LOTTIE ECKFORD-White, shaded lilac and blue. 371. LOVELY-Standard, and wings deep pink, shading
- lighter at edges. 372. MRS. COLLIER-Rich primrose tint; large, flowers
- and long stems. 373. DOROTHY ECKFORD-White; large bell-shaped
- flowers. 374. PRIMA DONNA-Fine pink; self-colored.
- QUEEN OF SPAIN-Soft buff pink, with curled 375. standards

SALOPIAN-Bright red or crimson-scarlet. 376.



Early and Winter Flowering Sweet Peas

This distinctive class of Sweet Peas is valued for earliness of bloom when grown out of doors, and for their winter flowering qualities when grown in greenhouses. They begin blooming according to the variety—in from 8 to 12 weeks from planting seed. Price, 15c. per oz.; 1/4 lb., 50c.; 1 lb., \$1.50. Postage, 6c. per Pound Extra.

BURPEE'S EARLIEST WHITE-Very early; hooded 380. form.

- CHRISTMAS PINK-Pink and white. 381.
- 382. EARLIEST OF ALL-Bright rose standard, with white wings.
 - 383. EX. EY. BLANCHE FERRY-Pink and white.
 - 384. FLORENCE DENZER-White.
- 385. MRS. ALEX. WALLACE-Pinkish lavender; very early.
 - MRS. E. WILDE-Rosy crimson. 386.
 - 387. MRS. F. J. DOLANSKY-Pink. 388. MONT BLANC-White; early; open form.
 - WATCHUNG-White. 389.

 - 390. MRS. CHAS. H. TOTTY-Lavender.
- 391. LADY GRISEL HAMILTON-Soft lavender, tinted with mauve in standard.

DEPARTME

We do not deliver plants free by express; the purchaser pays the charges, and unless instructed to the contrary, orders will be forwarded by express.

Orders for plants will be forwarded at the proper time for planting, according to variety. Cash must accompany all orders. We do not ship plants C. O. D.

VEGETABLE P

FROM SEED BED. SPECIAL PRICE IN QUANTITY.

BEET—Eclipse, Crosby, Egyptian. 60c. per 100; \$5.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

BRUSSELS SPROUTS-60c. per 100; \$5.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

CABBAGE—All the leading varieties. From December 1 to May 1, frame grown. **70c.** per 100; **\$2.50** per 500; **\$4.50** per 1000. Field grown from May 1 to December 1. **50c.** per 100; **\$2.00** per 500; **\$4.00** per 1000. By express, not prepaid. Add **10c.** per 100 if by mail.

CAULIFLOWER—Early Snowball, \$1.00 per 100; \$6.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

CELERY—All the leading varieties. **60c.** per 100; **\$2.50** per 500; **\$5.00** per 1000. By express, not prepaid. Add **10c.** if by mail.

EGG PLANT—Imp. Baltimore from seed bed. \$1.50 per 100; \$6.00 per 1000. By express, not prepaid. Add 10c. per 100; by mail.

SAGE—Holt's Mammoth, for flavoring. From 2-in. pots, **10c.** each; **\$1.00** per dozen. By express, not prepaid.

KOHLRABI-Early White Vienna. 60c. per 100; \$5.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

LETTUCE—Ready at all seasons. All the leading varieties. **\$1.00** per 100; **\$2.50** per 500; **\$6.00** per 1000. By express, not prepaid. Add **10c.** per 100 if by mail.

PARSLEY—For fall or spring planting. Large, strong roots. **\$1.00** per 100; **\$5.00** per 1000. By express, not prepaid. Add 10c. per 100 if by mail,

PEPPER—All leading varieties at 25c. per doz.; \$1.50 per 100; \$6.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

SWEET POTATO-60c. per 100; **\$3.00** per 500; **\$6.00** per 1000. By express, not prepaid. Add **10c.** per 100 if by mail.

TOMATO-Ready April 1. Seed bed plants of Bonnie Best, Earliana, Chalk's Jewel, Dwarf Champion, Ponderosa and Main Crop Varieties at **75c.** per 100; **\$2.50** per 500; **\$5.00** per 1000. Main crop varieties, Field Grown, ready May 25. **50c.** per 100; **\$2.00** per 500; **\$4.00** per 1000. By express, not pre-paid. Add **10c.** per 100 if by mail.

SE GREENHOU FOR POTTING AND BEDDING. FROM 2- or 3-in. POTS

ABUTILONS (Flowering Maple.)

ECLIPSE—In great demand for baskets and vases. Leaves variegated yellow and green, having bright yellow flowers, with crimson throat.

SAVITZII—A beautiful bedding plant; variegated white and green foliage. 10c. Each, By Mail, Add 5c. Each Extra.

ACALYPHA

MACAFEANA—A handsome variegated foliage bedding plant, which may be used in connection with Coleus, Crotons or other foliage plants for sub-tropical bedding.

10c. Each. By Mail, Add 5c. Each Extra.

SWEET ALYSSIUM

Dwarf Double-for pot plants. Giant Double-for cutting. 10c. Each. By Mail, Add 5c. Each Extra.

AGERATUM

DWARF WHITE. INIMITABLE—Giant Blue. LITTLE GEM—Dwarf Blue. PRINCESS PAULINE—Sky Blue, white centre. loc. Each; \$1.00 per Pozen. By Mail, Add 5c. Each Extra. BEGONIAS

VERNON—Pink bedding. **VERNON**—White bedding. **LUMINOSA**—Red flower and foliage. **GLOIRE DE CHATALAINE**—Dwarf; flowers rose color; hardv for pot or bedding. GRACILIS (Pfitzeri Triumph)—Pure white; free flowering. BEGONIA (Erfordia)—Bright, rosy-carmine. 10c. Each; \$1.00 per Dozen. By Mail, Add 5c. Each Extra.



ALTERNANTHERA

A beautiful class of dwarf plants growing only 6 inches high, admirably adapted for forming letters, ribbon lines, edgings or bed.

AUREA NANA-Yellow, compact.

BRILLIANTISSIMUS-Rich carmine.

SEYBOLDI-Broad leaf, yellow.

VERSICOLOR-Crimson, chocolate and green.

10c. Each; \$1.00 per Dozen; \$6.00 per 100. By Express, Not Prepaid.

ASPARAGUS(Sprengerii)

ASPARAGUS(Plumosa)

Potted plants, 10c. each. By mail, add 5c each extra.

CINERARIA

MARITIMA (Candidissima)-Silver foliage bedding plants. 10c. Each; \$1.00 per Dozen; \$6.00 per 100. By Mail, Add 5c. Each Extra. By Express, Not Prepaid.

TRADESCANTIA

(Wandering Jew)

Beautiful trailing plants, with thick, waxy, lance-shaped, striped foliage; very useful in baskets and porch boxes. MULTICOLOR-Green and White.

10c. Each. \$1.00 Per Doz.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

CANNAS

Few flowering plants combine so many fine qualities as the modern Canna—a race of subtropical bulbous plants, of most easy culture, rapid reproduction and good keeping qualities. The floral world has been astonished by their luxuriance of foliage and gracefulness of bloom, which is of immense size, borne in large masses and trusses, combining in color the brightest and richest shades of yellow, red, orange and scarlet, bringing them to the front as the finest ornamental plant in commerce.

Select Bedding Varieties

SUBJECT TO OUTTURN OF CROP.

FROM 3-IN. POTS. READY APRIL 15th.

POTTED PLANTS ONLY.

Price, except where otherwise noted, 15c. each. \$1.75 per doz.

FIRE BIRD-Glistening bright scarlet; large flowers. 25c. each.

KING HUMBERT—The broadest-leaved Canna; bronze, with orange-scarlet flowers; 4 to 5 ft.

MRS. KATE GRAY—Rich orange-scarlet flowers, six inches across, flaked with yellow tints; 5 ft.

WM. SAUNDERS—Bright scarlet flowers; in great clusters; 4 ft. 15c. each.

ALPHONSE BOUVIER-Crimson; 5 ft.

FLORENCE VAUGHAN-Green foliage; rich golden yellow, dotted red; 5 ft.

GLADIATOR—Bright yellow, spotted crimson, green foliage; 5 ft.

GUSTAV GUMPPER—Ideal yellow bedding canna; 3½ ft. J. D. EISELE—Bright vermillion scarlet; 3½ ft.

JEAN TISSOT-Intense brilliant vermillion, with orange shading; green foliage, growing about 6 ft. high.

LOUISIANA—Large vivid scarlet flowers, with glossy green foliage; 7 ft.

MME. CROZY-Rich orange-scarlet flowers, edged with bright golden yellow; 4 ft.

MAROS—Best white-flowering; creamy white flowers produced on stems well above foliage; 3½ to 4 ft.

PRESIDENT MYERS—Rich cherry-carmine flowers; bronze foliage; 4 ft.

QUEEN CHARLOTTE—Rich pomegranate red, bordered bright golden yellow; 3½ ft.

RICHARD WALLIS—Free-flowering yellow, with green foliage; $4\frac{1}{2}$ ft.

RUBIN-Bright scarlet flowers, dark foliage; 4 ft.

SOUV. DE ANTOINE CROZY-Beautiful red, bordered with golden yellow; 3½ ft.

UNCLE SAM—Clear deep orange flowers, borne in large clusters; rich green foliage; 6 ft.

VENUS—Gay rosy pink, with mottled border of creamy white; 4 ft.

WYOMING-Orange-scarlet, with bronze foliage; 4½ ft. IF WANTED BY MAIL, ADD 5c. EACH EXTRA.

MIXED CANNA ROOTS IN SPLENDID VARIETY

CANNAS

IAGE

per dozen extra.

GRANDIFLORA ROBUSTA.

Roots of large-growing Foliage Cannas with bronze leaf.

Dry Canna Roots, in assorted varieties, our selection, at 5c. each; 50c. per doz. Parcel post, 10c. per dozen extra.

The above make beautiful foliage, but do not bloom. Dormant roots at 5c. each; 50c. per dozen. By parcel post, 10c.

OUR SELECTION.

5c. Each; per Dozen, 50c.; per 100, \$4.00. By Express, Not Prepaid. By Parcel Post, 10c. per Dozen Extra.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

HARDY POMPON CHRYSANTHEMUMS

Small-Flowered or Button Varieties

Childiff IUWGIGU UI Duittui Valia BABY-Smallest golden yellow. CERISE QUEEN-Clear pink. ELEGANTA-Deep rose, shaded white. FASHION-Maize yellow; fine for cut flowers. GOLDEN CLIMAX-Orange yellow. GOLDEN PHEASANT-Deep orange yellow. INEZ-Scarlet bronze. MARY-Pearl white, flushed pink. MEG-Wine red, shading to garnet. JAMES BOONE-Pure white. RITA-Bright pink. TENNYSON-Pure yellow, for cut flowers.

Large-Flowering or Aster Varieties PLANTS FROM 2-IN. POTS.

AUSTIN-Lilac rose; cut petals. BOHEMIA-Fine pure white. BRADSHAW-Silver pink; large full flowers. CUMBERLAND-Long stemmed, yellow. ELDORADO-Bright golden. ELEANOR-Dwarf white. EXCELSIOR-Bright-orange yellow. LELIA-Bright brick red. LILLIAN DOTY-Finest large-flowered pink of the Pompon family. MISS EMMA-Golden bronze. QUEEN OF WHITES-Fine creamy white; long stems. REBECCA-Orange yellow. SALEM-Silver rose; long-quilled petals. SIR MICHAEL-Lemon yellow. ST. ELMO-Splendid white. SYLVIA-Large flowers; scarlet bronze. TRIUMPH D'OR-Rich golden yellow. URITH-Bronze, tipped yellow; large flowers. VIOLA-Rich violet rose. WINDLESS-Rich orange yellow; large flowers.

Single-Flowered

AARON-Bronze scarlet. GARZA-White, with quilled petals. LITTLE GEORGE-Small flowers; violet red. PINK DAISY-Light pink. **PROVIDENCE**—Early white. ROSY MORN-Silver pink. WALLIS-Pure yellow.

Anemone Varieties

BARNEY-Golden bronze. EARL-Pearl white, silver-rose centre; dwarf. EVA-Rose pink. FURNESSIA-Silver white. LADY OLIVIA-Beautiful white. MAY SUYDAN-Bronze. MYERS PERFECTION-Fine pure white; tall grower. OBAN-Silver pink; fine for cut flowers. PALMYRA-Silver pink. PRINCE DANILO-Pure white. Price, 10c. Each; per Dozen, 75c.; per 100, \$5.00. By Express, Not Prepaid.

FUCHSIAS

10c. each; \$1.00 per doz., by express, not prepaid.

BLACK PRINCE-Single, wavy carmine petals, open, pale pink corolla.

ELEGANA-Sepals white, corolla clear rose.

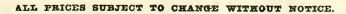
JOSEPH ROZAIN-Double purple.

MINNESOTA-Tube and petals light pink, corolla violet purple.

SPECIOSA-Single pink.

TORPILLEUR-Single white.

WHITE BEAUTY-Light pink sepals, white corolla.



DAHLIAS NEWEST VARIETIES

The following named varieties from 3-inch pots, Plants only (Ready April 15th)

A. C. IDE (Decorative)-Rich velvety maroon. 35c. each.

ALPENROSE (Cactus) — Fine, having twisted petals of bright aniline red, intensified by golden yellow suffusion. **30c. each.**

BELOIT (Decorative)—Large, bright glowing crimson flowers, of good substance. **30c. each.**

CORRY (Decorative)—An indescribable combination of deep pink and pinkish lavender. Free bloomers. **75c. each.**

HORTULANUS WITTE (Decorative)—Very long stemmed, free flowering, pure white. 50c. each.

KING OF AUTUMN (Decorative)—Large perfectly formed flowers of beautiful shade of burnt amber, tinged and shaded old rose. **50c. each.**

Cactus Varieties

BRITTANIA — Deep salmon flesh. 15c, each. COUNTESS OF LANS-

DALE—Rich salmon. **ELSE**—Buttercup yellow, shading into amber.

FLORA—Large pure white. 15c. each.

FLORADORA Dark velvelty crimson. 15c. each.

GEN. J. B. SETH-Rich and gorgeous, with brilliant scarlet shadings.

GOLDEN GATE— Bright golden yellow, early and free-flowering; very large and full. **30c.** each.

HONESTY-Pink with white centre; excellent garden variety. 35c. each.

KALIF—Colossal; pure scarlet and perfect form. **35c. each.**

LAWINE—White, showing blush as flower matures. **15c. each**.

MARGUERITE BOUCHON—Magnificent shade of brilliant, yet soft rose, with white centre and white tips. 35c. each.

NANCY MAE—Intense scarlet, with maroon shadings. 25c. each.

PRINCE OF YELLOW—Rich canary yellow. 15c. each. **RENE CAYEAUX**—Rich Gcramium red. 10c. each.

SEQUOIA—Deep saffron yellow, suffused with red. 20c. each.

THOS. PARKIN-Bright terra-cotta red. 20c. each.

WODAN—Delicate salmon rose color, shading to old gold in centre; large with semi-incurved petals. **35c. each.**

WOLFGANG VON GOELHE-Rich apricot with carmine shadings. 35c. each.

Prices 10c. each, except where otherwise noted.

Fancy Varieties

E. CHAVELIER—White base bordered purple; very distinct. 35c. each.

LE GRAND MANITOU — White ground color, prettily spotted, striped and blotched with deep reddish violet. 15c. each.

DAHLIAS-Continued.

THE FOLLOWING NAMED VARIETIES SUPPLIED IN POTTED PLANTS ONLY. (Ready April 15.)

Decorative Varieties

Prices, except where otherwise noted, 10c. each.; \$1.00 per dozen.

By express, not prepaid. By parcel post, add 3c. each for postage.

AUGUSTA NONIN-Large flow-er of fiery red. 35c. each.

BARLOWS BEDDER-Light red, dwarf free. 35c, each.

CREATION—Beautiful crimson rose, shading lighter as the blooms become full. **50c. each**.

DELICE—Beautiful glowing rose-pink.

EVENTIDE—White, with faint-est flush of delicate rose, on edge of flower, which seems to inten-sify its pureness. **35c. each.**

FIRE RAIN-Rich Cardinal red. 20c. each.

FLAMINGO—Rich and glowing rose-pink, showing sometimes an open centre. **30c. each.**

GOLDEN WEST—Best yellow, fine for cutting. 25c. each.

JACK ROSE - Rich velvetv crimson.

MABEL-Light mauve; pretty and free-flowering. 50c. each.

MINA BURGL—Rich luminous dark scarlet; free-flowering. 50c. each.

MISS MINNIE McCULLOUGH -Soft yellow, overlaid with bronze. 25c. each.

PRINCESS VICTORIA LOUISE -Deep rose-pink.

SYLVIA-Rich pink, white centre.

VIRGINIA MAULE-Delicate tint of shell pink.

YELLOW DUKE-Pure Canary vellow.

OREGON BEAUTY—Intense oriental red with golden sheen and garnet suffusion. **30c. each**.

CENTURY VARIETIES

Price, 10c. each. \$1.00 per dozen. By express, not prepaid.

BIG CHIEF-Brilliant cherry-red, margined rich velvety maroon.

FRINGED TWENTIETH CENTURY-Similar to twentieth century, having petals deeply cleft.

ROSE PINK CENTURY-Clear rose pink; immense size.

SCARLET CENTURY-Bright scarlet.

SENSATION—Vidid scarlet, heavily tipped white.

SINGLE VARIETIES

Price, 10c. each. \$1.00 per dozen. By express, not prepaid. ALBA SUFERBA—Large pure white. AMI BARILLET—Scarlet-crimson flowers, dark bronze

foliage. ST. GEORGE—Large pure yellow.

POMPON VARIETIES

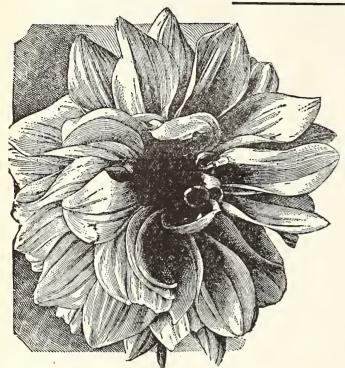
each. \$1.00 per dozen. By express, not prepaid. By parcel post, add 3c. each for postage. Price, 10c. ALEWINE—Flesh, edged lavender pink. CRIMSON QUEEN—Deep crimson, shaded purple. INDIAN CHIEF—Crimson. LITTLE BEAUTY—Delicate shrimp pink. LITTLE HELEN—Pure white. LITTLE MAY—Bright lemon yellow.

K (OUR SELECTION.)

In separate colors, not named varieties. Large clumps, 12c. each; \$1.25 per dozen. By express, not prepaid. IF BY MAIL, ADD 3 CENTS EACH FOR POSTAGE.

DAHLIAS-Continued

IE FOLLOWING NAMED VARIETIES SUPPLIED IN POTTED PLANTS ONLY. (Ready April 15.)



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PEONY = FLOWERED VARIETIES

H ices, except where otherwise noted, 10c. each; \$1.00 per dozen; by express, not prepaid. By parcel post, add 3c. each for postage.

GEISHA—Scarlet and gold, with yellow centre, deepening to scarlet at centre. 25c. each. GERMANIA—Dazzling crimson. GLOIRE DE BAARN—Delicate flesh pink. HON. R. L. BORDEN—Rich golden bronze. 25c. each.

MRS. CHAS. L. SEYBOLD—Distinct bright crimson-pink, each petal tipped white. PRAIRIE FIRE—Rich scarlet.

QUEEN WILHELMINA—Fine pure white. QUEEN EMMA—Distinct Rose.

LANTANAS

An old favorite for bedding or individual plant purposes, but on account of the great improvement in shades in the last few years they are becoming more and more popular.

E. BAYARD—Bright orange-red and yellow. **CRAIGI**—Bright orange, fading to rich crimson.

DELICATISSIMA or **WEEPING**—Lilac-lavender; fine for baskets.

PRANCINE—Sulphur yellow and deep pink. **HELVIA**—Pale canary, shading to deep yellow centre. **JAVOI**—Tall; clear pure white, yellow eye. **LA PLUIE D'OR**—Pure yellow; dwarf growth. **LYBE**—Pure white, with yellow centre; large flowering.

Price, 10c. each; \$1.00 per dozen; by express, not prepaid.

SHOW VARIETIES

BLACK DIAMOND-Purple garnet, shading black.

CHAS. LANIER-Yellow amber, shaded buff.

CLIENT-Deep velvety crimson.

ELECTRIC-Soft magenta rose.

ETHEL MAULE-Pure white, tinged pale avender ip centre.

GLOIRE DE LYON-Fine, large, pure white.

JOHN THORPE (Show)-Deep lilac, rose pink; very large and free.

MAGNIFICENT-Pure yellow; dwarf; splendid bedder.

MARGUERITE BRUANT-Pure white dwarf and free.

QUEEN OF YELLOWS—Rich canary yellow; best for cutting.

RUBY QUEEN-Clear ruby red, richly shaded.

YELLOW LIVONII-Soft lemon yellow.

DAHLIA ROOTS

In separate colors, not named varieties. Large clumps, loc. each; \$1.00 per dozen; by express, not prepaid.

HELIOTROPE

CHIEFTAIN—Lilac; large trusses, sweet-scented. . MME. DE BLONAY—Large trusses, nearly pure white. MME. BRUANT—Very dark purple.

10c. each; \$1.00 per dozen, by express, not prepaid.

HARDY ENGLISH IVY

LARGE-LEAVED VARIETY.

10c. each; \$1.00 per dozen.

SENECIO SCANDENS

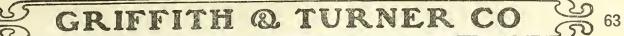
PARLOR IVY-For vases, baskets and boxes. 10c. each.

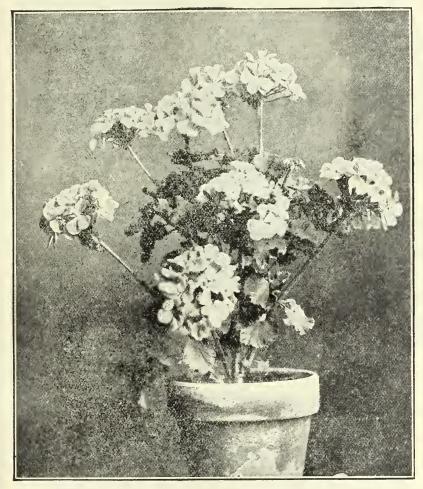
VINCA (Periwinkle)

Ever-blooming bedding plants, flowers phlox shaped. In separate colors, rose or white. 10c.; \$1.00 per dozen.

LEMON VERBENA

10c. each; \$1.00 per dozen; by express, not prepaid.





MARYLAND—Handsomely marked foliage, with a choco-late zone. Magnificent semi-double flowers of perfect form and grand texture, profusely produced in enormous trusses. Intense dazzling, fiery-red color. **25c. each**.

IVY-LEAVED

Price. 10c. each; \$1.00 per dozen. By express, not prepaid.

ALLIANCE—Delicate white lilac. COL. BADEN POWELL—Pearl white. JOSEPH WARREN—Lovely shade of rich purple.

MME. THIBAUT—Clear rosy pink. PIERRE CROZY—Bright scarlet flowers. SCARLET CROUSE—Magnificent shade of carmine.

VARIEGATED FOLIAGE VARIETIES

MOUNTAIN OF SNOW—Light green foli-age: variegated white; single scarlet flowers. **MME. LANGUITH**—Beautiful cherry-red; foliage broadly marked with silvery white. **MRS. POLLOCK**—Green leaves, surrounded with margin of yellow; dark chocolate zone, orange-red flowers

orange-red flowers SILVER LEAF S. A. NUTT-Crimson-scarlet

Sophie Dumaresque – Golden salmon

scarlet; healt golden yellow. healthy green foliage; margin of Price, 10c. each; \$1.00 per dozen. By express,

not prepaid.

SCENTED-LEAVED VABIFTIFS

BALM-Upper petals light lilac; lower petals

dark. CAPITATUM—Small leaf, rose-scented. DALE PARK BEAUTY—Small, fragrant foliage

FAIR ELLEN — Fragrant and beautiful; large oak-leaved foliage. LADY MARY—Sweet-scented; rose-lake

color LADY PLYMOUTH—Variegated rose ge-raniums; green and white foliage. LEMON—Lemon-scented, NUTMEG—Dwarf; bright green foliage; nut-

meg scented.

ROSE -Rose-scented.

SCARLET UNIQUE-Dull scarlet; blotched maroon,

Price, 10c. each; \$1.00 per dozen. By express, not prepaid.

TANDARD DOUBL

COL. THOMAS-Deep cardinal red. FLEUVF BLANC-Pure white. LA PILOTE-Brilliant scarlet; a favorite bedder. M. A. ROSELEUR-Deep rose-pink. MARQUISE DE CASTELLANE-Soft red crimson. MISS F. PERKINS-Charming shade of deep rose.

MISS KENDAL Dark carmine red. MMER. RECAMER—Pure white. ORNELLA—Deep rich scarlet. S. A. NUTT—Dark, velvety crimson. SCARLET BEDDER-A bright scarlet bedding variety; free bloomer.

Price, 10c. each; \$1.00 per dozen. By express, not prepaid.

DARD SINGLE

ADMIRATION-Bright rose-shrimp pink. CLAIRE ALBAINE-Pure white color. EMMANUEL ARENA-Deep rich dark velvety crimson. FEUER-Brilliant crimson red. GLOIRE DE ROUGE-Rich scarlet. MRS. Z. RAWSON-Scarlet flowers.

ROSALDA-Rich crimson pink. SNOWDROP-Pure white. THE SIRDAR-Intense scarlet. TIFFIN-Rich glowing scarlet. VICTOR GROSSET-Bright apricot-salmon. Price, 10c. each; \$1.00 per dozen. By express, not prepaid. 3 Cents Each for Postage.

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NOCTIFLORA --- The standard white Moonvine.

LEARI (Blue Dawn Flower) -Generally known as the Blue Moonflower.

10c. each; \$1.00 per doz.



Petunias loc.each; \$1.00 per lozen. By ex-When ordering by mail press. add 4c. each for postage. not prepaid.

For outdoor decoration or house culture few plants equal the Petunia in effectiveness. They commence flow ring early, and continue a sheet of bloom throughout the whole season until killed by frost; easily cultivated, only requiring a good soil and sunny position.

ADA—Purple, edged and striped white. **ARTUS**—Deep rose pink. **GURY**—Lilac rose. **IRENE**—Bright rose pink. **SNOWBALL**—Pure white.



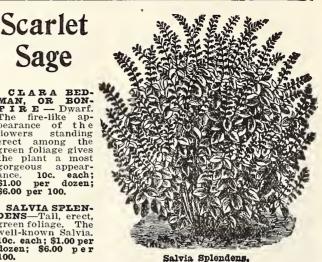
ROE ROY—Dwarf: pinkish red, with crinkled edges. **TRAILING QUEEN**—Running Coleus; small foliage; dwarf, yellow and pink centre, bordered maroon and green. **DUNERIA**—A magnificent Coleus; various shades of crim-son, having very large leaves; showy bedder, and stands sun well.

GOLDEN BEDDER—A favorite yellow bedder. HERO—Model dark Coleus; leaves almost black, pointed and scalloped.

SPOTTED GEM—Green, blotched with crimson and maroon, with light yellow centre. VERSCHAFFELTII—Standard crimson variety.



SALVIA SPLEN-DENS—Tall, erect, green foliage. The well-known Salvia. 10c. each; \$1.00 per dozen; \$6.00 per 100.



Yucca

A hardy evergreen plant, with long, narrow leaves that are bright green the whole year. The flowers are creamy white, bell-shaped, produced on long spikes 3 to 4 feet high. Fine, stately lawn plant.

FILAMENTOSA GLORIOSA (Adam's Needle).

Price, one-year old, 10c. each, postpaid. Extra large plants, 25c. each, by express, not prepaid.

Hardy Phlox Clumps

IN MIXED VARIETIES (NOT NAMED), at 10c. each; \$1.00 per dozen. By express, not prepaid.

Peonies



One of the most popular hardy plants grown for lawn and garden decoration. Double crimson, double white, double rose. Price, 20c. each; 4 for 75c.; \$2.00 per dozen. Postage extra, 5c. each, if wanted by mail.

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Bulbs for Spring Planting

IUMS ELEPHANT EAR

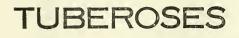
The Caladium Esculentum is one of the handsomest of the ornamental-leaved plants. It will grow in any good garden soil. Plant where it will obtain plenty of water and an abundance of rich compost. Roots planted in the spring will make good growth in the sum-mer, and in the fall store in a cellar. There is nothing so good as this Caladium for a grand bed of foliage in the garden.

FIRST SIZE BULBS (7 and 9 inches). — Each, 8c.; dozen, 85c.

LARGE BULES (9 and 11 inches). - Each, 10c.; dozen, \$1.00.

EXTRA LARGE BULES (11 inches and up-wards).—Each, 15c.; dozen, \$1.75.

If by mail, add single bulbs, 5c. Dozen, 15c.



One of the most fragrant and popular of the summer flowering bulbs. May be started early in hotbeds or pots, or planted in open ground after the first day of May.

EXCELSIOR PEARL.—Double white; dwarf. Each, 5c.; dozen, 50c. Per 100, \$4.00.

If by mail, add dozen, 10c.



Madeira Vine is a popular and favorite tuberous rooted climber of rapid growth, with dense and beautiful foliage. It grows every-where, but does better in warm sunny loca-tions. By mail, each 5c.; dozen, 50c.

GLADIOLUS. Gladiolus are the most attractive and useful

Cladiolus are the most attractive and useful for cut flowers of all summer-flowering bulbs. Use any good soil, hoe and loosen it to keep down the weeds, and with ordinary rainfalls they will flower by July 1. Plant at 10-day into October. In cutting Gladioli for the house, it is best to cut the spikes as soon as the first one or two lower flowers are open. The remainder will open in the house.
 AMERECA—This is one of the finest Gladioli for the house, it is one or two lower flowers are open. The remainder will open in the house.
 AMERECA—This is one of the finest Gladioli for the house, it is best to cut the spikes as soon as the first one or two lower flowers are open. The remainder will open in the house.
 AMERECA—This is one of the finest Gladioli for the house, it is ever introduced, and ranks as the best sort for cutting, as well as all-around purposes. The color is a very beautiful soft pink, the coloring and texture resembling those of the Orchid. Each, 6c.; dozen, 60c.; 100, \$5.00.
 AUGUSTA—A lovely and useful variety, pure white with blue anthers. 6c. each; 60c. per dozen; \$5.00 per 100.
 EMEA WHITE AND LIGHT VARIETIES —All first-class varieties, made up largely from best-named sorts. 5c. each; 50c. per dozen; \$4.00 per 100.
 EMEMOINE'S (MIXED—Extra large and fine. 50c. per dozen; \$4.00 per 100.
 EMEOINE'S (MIXED)—Extra fine. 40c. per dozen; \$3.00 per 100.
 MIXED (All Colors)—Dozen, 40c.; \$3.00 per 100.

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NURSERY DEPARTMEN'

Ecfore planting fruit trees, the soil (excepting new ground) should be made mellow by repeated plowing. When trees are received the root should be covered with a blanket, sack or straw until they reach their destination; the bundle should then be opened, and the trees separated from the moss in which they are packed; if the roots have become dry, from too long exposure, straw should be spread on the ground, the trees laid upon it, then covered entirely, roots and tops, with straw, and the whole well watered. In this condition they should remain for forty-eight hours, when they will be found as fresh as when first found in the nursery. Where only a few trees are to be planted, and the soil has not been sub-soiled, or where trees are to be planted in sod, then the holes ought to be at least four feet wide and eighteen to twenty inches deep, the sub-soil thrown back, and the holes filled up to a proper depth to receive the tree with fine top soil.

APPLES

Price, 60c. Each. \$7.00 Per Dozen.

Should be planted thirty-five to forty feet apart, according to the nature of the soil and climate.

SUMMER APPLES.

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AMERICAN SUMMER—Medium size, oblong, streaked and dotted red. Juicy and subacid. Last of July to August. BENONI—Round, deep red with yellow flesh. Subacid. July. EARLY HARVEST—Large, round and yellow; rich subacid flavor. June and July. BED ASTRAKHAN—Large, deep crimson fruit; rich and acid July:

acid. July. **TETOFSKY**—Russian variety and very hardy. Yellow, striped red; flesh white and acid. July. **YELLOW TRANSPARENT**—Early and prolific; clear white skin, changing to yellow. July. **AUTUMN APPLES. FALL PIPPIN**—Very large, yellowish green, ripening to rich yellow. Excellent for cooking and market. September to December. **GRAVENSTEIN**

GRAVENSTEIN-Large, round, striped with red; tender,

GRAVENSTEIN—Large, round, striped with red; tender, juiey and productive. August. MAIDEN'S BLUSH—Large and smooth, shaded red or blush on clear yellow; subacid; rapid growing and large cropper. August to October. OLDENBURG—Very hardy and abundant bearer; golden yellow, streaked crimson; valuable for market. August. RAMBO—One of the best; smooth skin, streaked dull yel-lowish; red, rich, spicy subacid flavor. October to January. SMOKEHOUSE—Large fruited, striped red on yellow ground; subacid; productive and good for culinary purposes. September to December.

WINTER APPLES.

AMERICAN GOLDEN RUSSET (Sheepnose)-Dull yellow, with very thin russet; spicy flavor; productive. October to January

BELIFLOWER—Pale yellow, sometimes, with blush; juicy and acid; succeeds best in mountain country. October to January

BALDWIN—Yellow, striped red and orange; juicy and sub-acid; good bearer. October to January. **BENTLEY'S SWEET**—Pale yellowish green, shaded red and brown spotted; sweet flavor, good bearer and keeper. January

to May. BEN DAVIS-Abundant bearer of large striped fruit; juicy

BEN DAVIS—Abundant bearer of large striped fruit; juicy and subacid. Late keeper. **GRIMES GOLDEN**—Yellow subacid; spicy and rich fruit. January to March. **JONATHAN**—Small, with yellow skin, almost covered red; fine flavor; popular everywhere. November to April. **LANKFORD'S SEEDLING**—Hardy and annual bearer, hav-ing large striped fruit of good keeping qualities. **MAMMOTH BLACK TWIG**—Sedling of Winesap, but su-perior; large deep red; subacid; early and abundant bearer. December to April. **NORTHERN SPY**—Large, striped and somewhat covered with dark crimson: slightly subacid; best in mountain regions.

with dark crimson; slightly subacid; best in mountain regions.

November to February. **PARADISE WINTER SWEET**—Large, with smooth skin: dull green, when picked, with brownish blush; juicy and sweet. November to February.

sweet. November to February. SEEK-NO-FURTHEE — Medium to large, slightly russeted, with dull red stripes; rich and spicy. November to February. STAYMAN'S WINESAF — Superior to old Winesap; large, bright red, very productive, adapting itself to different soils. Good marketing variety. YORK IMPERIAL or JOHNSON'S FINE WINTER — Me-dium size, skin greenish yellow, nearly covered with bright red; tender flesh, crisp and juicy; good bearer and keeper. February to April.

CRAB APPLES

Plant eight to ten feet apart. Price, 60c. Each. \$7.00 Per Dozen.

(By express, not prepaid.) GENERAL GRANT—Large, dark red. HEWES VIRGINIA CRAB—Famous cider apple; yellowish and juicy.

RED SIBERIAN CRAB—Small, with scarlet cheek on waxen yellow ground; good for preserving. **YELLOW SIBERIAN CRAB**—Resembles Red, except color

is rich yellow; ornamental tree as well as good for preserving fruit.

PEARS

Should be planted twenty to twenty-five feet apart.
 BARTLETT (Summer)—Yellow, with soft blush, fine-grained, sweet and juicy; good bearer. July and August.
 Price, 70c. Each.
 KOONCE (Summer)—Handsome fruit, good bearer, frost-proof and free from blight. Price, 70c. Each.
 KIDFER—Standard winter variety. Large and juicy.
 Price, 60c. Each.
 ANGOULEME (Autumn)—Very large, dull greenish yellow, streaked and spotted russet; flesh white, juicy and excellent flavor. September to November. Price, 70c. Each.
 SECKEL (Autumn)—Rich quality hardy and productive.
 September and October. Price, 70c. Each.
 FLEMISH BEAUTY (Autumn)—Large, skin pale yellow, mostly covered with patches of russet; changing to redish brown; hardly and abundant; gather early and ripen in house.
 September. Dice, 70c. Each.
 LAWEENCE (Winter)—Large yellow covered with brown dots; rich flavor; best early winter pear; hardy and product-ive. November to December. Price, 70c. Each.
 LINCOLN CORELESS (Winter)—No seed or core; late in season and good keeper; golden yellow mellow fruit, of rich flavor. Price, 70c. Each.
 WINTER NELLS (Winter)—Medium size; dull russet; fine-grained builterv and melting: rich aromatic flavor. Novem-

winter NELIS (Winter)—Medium size; dull russet; fine-grained, buttery and melting; rich aromatic flavor. Novem-ber to December. Price, 70c. Each.

PEACHES

ALEXANDER—Early; flesh white and crimson skin; valu-able for Southern market. July. ARGYLE ELEEETA—Later than common Elberta; fruit finer color and better flavor; abundant producer. BEANDY WINE—Yellow flesh; freestone. Last of August. BUTLER'S LATE—Largest size; greenish white skin, with red cheek; very productive. First to middle of October. BEER'S SMOCK—Larger than Smock and later; flesh firm and red next to seed; freestone. October 1st. CARMAN—Large and round, with pale yellow skin, red blush on sunny side; white flesh, superior flavor. Middle of July. July

CHAIR'S CHOICE-Large size; yellow, with red cheek; yel-

CHAIN'S CHOICE—Large size; yenow, with red cheek; yel-low fiesh. Early September. CHINESE CLING—Large fruit, with transparent cream-color skin, with marbling of red next to sun; creamy white flesh, juicy and rich flavor. Last of July. CRAWFORD'S EARLY—Large, yellow and productive; flesh juicy and subacid; valuable for market; freestone. First of

August

August. CRAWFORD'S LATE—One of the best yellow Peaches for market; freestone. Middle of August. **EEATH CLING**—Best of clingstone peaches, having lusci-ous flavor, and keeping well after taken from tree; skin pale yellowish white with tinge of red; flesh greenish white; juicy. **EEATH FEDSTONE**—Fruit large; skin white; juicy, with good flavor. Early September. **LEMON CLING**—Lemon-shaped, light yellow color, ripen-ing red in sun; firm yellow flesh, with subacid flavor; fine for preserving. Last of August. **LEMON FREE**—Almost lemon-shaped and pale yellow when ripe; very hardy and exceedingly productive. September. **MOUNTAIN ROSE**—A variety of great value for market; skin whitish, nearly covered with light and dark red; flesh white, silghtly stained at stone; juicy and sweet; freestone. **OLDMIXON FREESTONE**—Large, productive variety; yel-lowish white skin, with red cheek; white flesh, red at stone. **MOUNIXON CLINGSTONE**—Yellowish white, dotted red;

Niddle of August. **OLDIAIXON CLINGSTONE**—Yellowish white, dotted red; flesh pale white: melting and juicy. Middle of August. **/ SUSQUEHANNA**—A great favorite; fruit of large size, hav-ing rich yellow skin, with red cheek; yellow flesh with rich flexible facestone August

flavor; freestone. August.

Price, 60c. Each. \$7.00 Per Dozen.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

NURSERY DEPARTMENT—Continued

CHERRIES.

Should be planted sixteen to twenty feet apart. **HEART AND BIGARREAU**—Succeeding best in soil not too wet or damp. **BLACK TARTARIAN**—Fruit large, sweet and productive.

June

BLACK HEART-Above medium size; tender, juicy and rich.

ELTON—One of the finest fruits; of pale yellow, blotched d, juicy and rich. May and June. **GOV. WOOD**—Large, light yellow shaded red; juicy and weet. June. red,

sweet. June. MERCER—The finest heart cherry; dark red and juicy;

MERCER—The inest heart cherry; dark red and juicy; good bearer. DUKE AND MORELLO—These varieties will bear more moisture than above, though not as vigorous and upright, forming low-spreading heads, with acid or subacid fruit. DYENOUSE—Fruit early and subacid; bright red, darken-ing with sun; juicy. ENGLISH MORELLO—Dark red, juicy and subacid. July. EARLY BICHMOND—Dard and juicy; acid davor Last of

ENGLISH MORELLO—Dark red, juicy and subacid. July. EARLY RICHMOND—Red and juicy; acid flavor. Last of

Productiv Ma MONTMORENCY-Large-fruited; of finest flavor, hardy and prolific.

Price, 80c. Each. By Express, not Prepaid.

PLUMS.

Should be planted fourteen to sixteen feet apart. GERMAN PRUNE—Esteemed for drying and preserving; oval purple fruit, with firm green flesh; sweet, and separates stone. from

GREEN GAGE—Small yellowish-green; flesh pale grcen; juicy, sweet and rich; one of the best flavors, and separates from stone. LOMBARD-

-Medium; skin delicate violet, dotted red; flesh

LOMBARD—Medium; skin delicate violet, dotted red; flesh deep yellow; juicy, hardy and productive. SHROPSHIEE DAMSON—Large size, dark purple; esteemed for preserving. September. ABUNDANCE (Japanese)—Lemon-yellow ground, over-spread with cherry; flesh yellow and juicy; subacid, with apricot flavor. August. / BURBANK (Japanese)—Large cherry-red, with slight lilac bloom; deep yellow flesh; very sweet. September 1st. WILLARD—Earliest of all Japanese plums, and valuable for market; bright claret-red, with dots; white flesh; free-stonc; early, and good keeper. Price, 20cc Each.

By Express, not Prepaid. Price, 20c. Each.

APRICOTS.

Apricots and nectarines should be planted twelve to fifteen et apart. They will grow on any friable soil under good feet culture

EARLY GOLDEN-Small, pale orange; flesh orange, juicy and sweet. HARRIS-Golden yellow; hardy and late bloomer; good

HAREIS—Golden yellow, have bearer. LARGE EARLY—Orange, with red cheek; sweet and juicy. Last of June. Price, 75c. Each. E7 Express, not Prepaid.

NECTARINES.

BCSTCM—Large yellow, with red cheek. ELRUGE—Greenish yellow, with red cheek. PITMASON ORANGE—Rich orange-yellow, with brownish red cheek; yellow flesh, red at stone. Price, 80c. Each. By

By Express, not Prepaid.

QUINCES.

Should be planted ten to twelve feet apart. CHAMPION—Greenish yellow; large fruit. MEECH'S PROLIFIC—Pale bright orange; large fruit; fra-GRANGE (Apple Quince)—Pale orange, ripening after mid-autumn; good keeper.
 Frice, 75c. Each.
 Ey Express, not Prepaid.

GRAPES.

If planted for fastening to a trellis or arbor, should be twelve feet apart; if tied to stake, six feet apart. Black. White. Red.

Concord, Moore's Early, Worden,	Niagara.	Brighton, Catawba.
Campbell's Early. Price, 40c. Each.	By Expr	ess, not Prepaid.

RASPBERRIES.

Should be planted four feet apart each way. CUTHBERT—Strong and vigourous. Large fruit; very productive. Red.

RASPBERRIES-(Continued).

GREGG—Large firm fruit, sweet and rich. Strong grower and ripens late. Black and juicy. KANSAS (Black Cap)—Firm and of fine quality. Its canes are of strong growth, entirely hardy and prolific, with tough, healthy, clean foliagc. Season about second early—later than Southegan, but earlier than Gregg. MILLER EED—Fruit size of Cuthbert; bright red; does not fade; core very small; ripens very carly; heavy bearer; best shipner.

best shipper.

\$1.50 Per Dozen. By Express, not Prepaid.

BLACKBERRIES.

Require the same kind of soil and treatment as raspberries, except that they should be planted in rows eight feet wide and four feet apart in the row. **ELDORADO**—Berries very large; jet black; sweet, melting; no hard core; splendid keeper and shipper.

SICO Fer Dozen. WILSON, JR.—One of the best earlies. EARLY HARVEST—Good quality and productive. Very early.

ERIE—Black. Ripens early and very hardy. LUCRETIA (Dewberry)—As early as Early Harvest; en-tirely hardy, healthy, strong grower and very productive. / \$1.50 Per Dozen. By Express, not Prepaid. rower and very productive By Express, not Prepaid.

GOOSEBERRIES.

Should be planted the same distance apart as currants. **DOWNING**—Seedling of Houghton, Large and juicy. Valu-able for market. **HOUGHTON'S SEEDLING**—Small fruit, but juicy and sweet. Valuable for market. **25c. Each**.

INDUSTRY-Very large, excellent quality and an enormous bearer

RED JACKET—Plant vigorous and healthy. Fruit rich dark red; oblong. Believed to be valuable.

 35c. Each. By Express, not Prepaid.

CURRANTS.

Currants should be planted on good soil, which must be kept rich and well worked in the garden, four feet apart. CHERRY—Large red, fine variety and strong grower. FAY'S PROLIFIC—Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red and good quality. 20c. Each.

VEGETABLE ROOTS.

ASPARAGUS ROOTS.

ASPARAGUS ROOTS. A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family; 7,260 roots will plant an acre. Select good, loamy soil, plow deep, put in good quantity of manure and 100 pounds of kainit to 1,000 square feet of bed. Incorporate thoroughly, make a trench 8 inches deep, set plants 9 inches apart. In field culture rows are placed 4 feet apart. Barr's Mammoth—Per 100, \$1.50. Per 1,000, \$9.00. Palmetto—Per 100, \$1.50. Per 1,000, \$9.00. Colossal—Per 100, \$1.50. Per 1,000, \$9.00. Mammoth White—Per 100, \$1.50. Per 1,000, \$9.00.

JERUSALEM ARTICHCKE ROOTS.

Used for table and stock feeding. The tubers roasted or boiled, and served with butter, well seasoned, make a dish some think greater than potatoes. However, their greatest value is for hogs. Plant and cultivate like potatoes. **Peck**, \$1.00. Bushel, \$3.50.

HORSE RADISH ROOTS.

HORSE RADISH ROOTS. The land should be rich, well manured, plowed deeply, har-rowed and free from lumps. Plant in a roomy space by itself. Make rows 15 inches apart, set plants 12 inches from each other. Plant shoots about five inches long, making holes for same with a stick, and set them about two inches under the soil. Have the shoots cut squarely across the bottom, but cut slanting at the top, in order that one side may be a little longer than the other. Keep free from weeds for the first and second seasons, after which the Horse Radish will take care of itself. Doz. 20C. By Mail, 25C. Per 100, 75c. By Mail, 90c. Per 1,000, \$7.00. By Express, not Prepaid. RENGBARB, OR PIE-PLANT. This very desirable vegetable comes early in the spring

This very desirable vegetable comes early in the spring. The large stems of the leaves are used for pie-making and stewing. A deep, rich soil is indispensable to secure large, heavy stalks. Plant in rows 4 feet apart, with the plants 3 feet distant. Set so that the crowns are about an inch below the surface. Top-dress annually in the fall with stable manure, and fork under in the spring. 15c. Each. By Mail, 20c. Doz., \$1.50. By Express, not Prepaid.

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NURSERY DEPARTMENT---Continued

CLIMBERS

AKEBIA QUINATA—A climbing plant from Japan, with fine foliage, and clusters of purplish fragrant flowers.

AMPELOPSIS QUINQUEFOLIA (Virginia Creeper)—A native vine of vigorous growth, with abundant foliage, turning rich crimson in autumn. Each, 60c.

AMPELOPSIS VEITCHII — Japan introduction; rapid grower on walls, etc.; leaves small, turning to red in autumn. **Each**, 60c.

CLEMATIS—JACKMANI—As yet the best, bearing large, velvety, dark violet-purple blooms; strong and hardy.

CLEMATIS—PANICULATA—A hardy Japan variety, having pure white blooms, star-shaped and very fragrant; late kloomer. Each, 60c.

CLEMATIS-SCARLET—Flowers brilliant scarlet, blooming in July.

HONEYSUCKLE—Useful for covering arbors, etc., in different varieties of color. Each, 50c.

IVY—Hardy evergreen vine, succeeding best in cool, shady places; useful for covering walls, trees, etc. Each, 50c.

JESSAMINE-Naked Flowering - Golden yellow flowers, which appear in spring before foliage.

JESSAMINE—Common White—Climber with fragrant white flowers.

JESSAMINE-Grandiflora-Blooms orange-red.

TRUMPET FLOWER—A rapid-growing plant, with large trumpet-shaped scarlet flowers.

WISTARIA (Chinese)—Rapid grower, having long racemes of pale blue flowers.

WISTARIA (Double Purple)—Flowers very double and deeper in color than above. Each, 80c.

WISTARIA-White Flowering and Single-Each, 80c.

SHRUBBERY

ALTHEA (Rose of Sharon)—Hardy flowering shrubs, in the following varieties of color: Purple, Light Red, White Tipped Pink, White, Lilac. Each, 60c.

BLEEDING HEART-Hardy plant, with heart-shaped pink flowers.

CALYCANTHUS FLORIDUS (Sweet-Scented Shrub)—Wellknown native bush, young wood of which has a strong aromatic odor. Luxuriant foliage, with rare chocolate-colored blossoms, dclightfully fragrant. Blossoms in May and at intervals during summer. **Each**, **60c**.

DEUTZIA, CRACILIS-Small, pure white flowers, on slender branches; hardy. Each, 60c.

DEUTZIA, CRENATA (Double Flower) — Flowers white margined pink. Each, 60c.

FORSYTMIA (Colden Eell)—Golden yellow flowers in great profusion. Each, 60c.

FORSYTHIA (Weeping)-Slender and drooping; yellow flowers.

EYDRANGEA (Paniculata Grandiflora)—One of the finest shrubs, growing 8 to 10 feet high, producing immense pyramidal panicles of white flowers. **Each**, 75c.

HYDRANGEA (Otaksa)—From Japan; immense trusses of rose-colored flowers in June.

JAPAN QUINCE—Produces bright scarlet flowers in early spring; hardy.

JAPAN CUINCE (White Flowering)—Producing delicate white and pink flowers in early spring.

LILAC-Pure white. Each, 50c.

LILAC-Bluish-purple. Each, 50c.

LILAC-Louis Van Houtte; large red flowers. Each, 50c.

SFIREAS—Anthony Waterer; crimson, of dwarf growth also; excellent for pots. Each, 50c.

SPIREA—Bright rose-colored, blooming all summer. Each, 50c.

SPIREA—Blue; late bloomers. Each, 50c. SPIREA—White. Each, 50c.

SHRUBBERY—(Continued)

SPIREA—Plum-leaved, Bridal Wreath; pure white flowers. Each, 50c.

BARBERRY-(Thumbergii)-Small white-flowering; desir-. able for pot culture. Each, 50c.

SNOWBALL (Cranberry Bush)—An old, well-known shrub, bearing large balls of purc white flowers; very decorative fruit, beginning to color in midsummer, and hangs on during winter. Each, 60c.

SNOWBALI. (Single)—White flowers and purple foliage in autumn. Each, 60c.

SNOWBALL (Japanese)—Flowers in large globular heads, pure white. Each, 60c.

SYRINGA (Mock Orange)—Hardy, with handsome foliage and white flowers, which somewhat resemble orange blossoms, being rather fragrant. June flowering. Each, 60c.

HEDGE PLANTS

To secure a good hedge it is necessary to plant well. Dig a wide, deep trench, and work the soil thoroughly into the roots. Settle the ground firmly, so that each plant will be set as solidly as a post; then nulch heavily with some coarse material for a distance of one or two feet on either side, according to the size of the plants.

ARBOR-VITAE, American—One of the most desirable evergreen hedge-plants. Of a very attractive appearance. Although a fast grower, it can be kept trimmed to any height desired. Best adapted for screens or windbreaks. **Each**, **30**C.

PRIVET, California—Nothing in the way of a hedge-plant has atained in so short a time the popularity of the California Privet. While in this latitude it is deciduous, yet it retains its foliage until very late in the fall or early winter. The flower is creamy white and very fragrant. It is certainly a most desirable thornless, hardy hedge-plant, with beautiful dark green foliage. It can be kept at any desired height by frequent trimming, and grows well at the seashore.

California Privet, 2 ft.\$4.00 per 100; \$35.00 per 1,000 California Privet, 18 to 23 in.. 3.50 per 100; 30.00 per 1,000 California Privet, 12 to 17 in.. 2.00 per 100; 20.00 per 1,000

NUT-BEARING TREES

Each	Each
Japan Chestnut\$	Black Walnut\$1.50
Spanish Chestnut	Paper Shell Pecans
American Chestnut	Horse Chestnut, 5-7 ft 1.50
English Walnut 1.25	Japan Walnut 1.00

ORNAMENTAL SHADE TREES

1	Eacn
Carolina Poplars, 9 to 10 ft	\$.7 5
Lombardy Poplars, 9 to 10 ft	.75
Silver Maples, 9 to 10 ft	1.00
Norway Maples, 8 to 10 ft	1.50
Pin Oaks, Red Oaks, Willow Oaks, 6 to 7 ft	1.50
Weeping American Willow, 6 to 8 ft	.75
Golden Williow, 9 to 10 ft	
American Elms, 9 to 10 ft	1.25
American Elms, 10 to 12 ft	2.25
American Elms, 12 to 14 ft	2.75

VRERRY PLAI

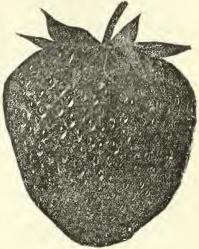
The ground should be prepared the same as for other crops; if not already rich, make it so by manuring. Mark out the rows the desired width, and set plants ten to seventeen inches distant in the rows; if set twelve inches in rows four feet apart, an acre will require 10,890 plants; same as if set sixteen inches in rows three feet apart.

In early winter when the ground is frozen, cover the whole with long straw, which should be removed from the plant in the spring, but allowed to remain on the ground as a mulch, to keep the berries clean next summer. When strawberries are moved in the fall, they should be left until October or the first of November.

The blossoms of all varieties marked "S" are bi-sexual or perfect, those marked "P" are destitute of stamens and are termed pistillate or imperfect.

Imperfect varieties should have a row of perfect flowered sorts planted every third or fourth row to pollenize their blossoms. When imperfect blossoms are properly fertilized they are the most prolific.

- BUBACH-Large and strong grower. Early. \$2.00 per 100; **\$12.00** per 1,000.
- CHESAPEAKE-Well recommended for all soils; good bearer (late). \$2.50 per 100; \$15.00 per 1,000.
- GANDY (S)-Strong plants, bright red in color and good late shipper. Succeeds best in heavy clay soil or bottom land. \$1.50 per 100; \$9.00 per 1,000.
- TENNESSEE PROLIFIC (S)-Large size, bright crimson fruit. Good shipper and canner. \$1.50 per 100; \$10.00 per 1,000.



GLEN MARY (S)-Dark red fruit, rich and juicy. Good firm shipper. \$2.00 per 100; \$12.00 per 1,000.

STEVEN'S LATE (S)-Heavy yielder, having large bright red fruit. \$1.50 per 100; \$10.00 per 1,000.

- KLONDYKE (S)-Good cropper and firm berry, making a fine shipper. \$1.35 per 100; \$7.50 per 1,000.
- SHARPLES (S)-Large fruit, of bright scarlet color. Flesh firm, juicy and sweet. Medium to late. \$2.00 per; \$12.00 per 1,000.
- WM. BELT-Good for home use, being a good bearer, with large berries. \$1.50 per 100; \$10.00 per 1,000.
- 1,000 lots by Express only, not prepaid.

FROST-PROOF CABBAGE PLAI

Varieties: Early Jersey Wakefield, Charleston Wakefield, Succession and Early Flat Dutch.

These plants are grown in the open field during the fall and winter months, which causes them to make a slow, tough, hardy growth—so hardy that the outer leaves turn to a reddish brown. They can be shipped to distant points without danger of spoiling, and should be planted in the open ground from four to five weeks earlier than frame plants.

They will stand a temperature of 10 to 15 degrees above zero without injury. Will do very much better planted early, as they will take root and start to grow as soon as warm weather sets in.

Orders filled from January 1 until April 1. We do not advise planting later than this time.

The plants when received will be somewhat wilted and have a hard stunted appearance, which will be disappointing to persons who have never used these plants hefore. Regardless of appearance, they will produce the crop results.

Prices by parcel post, postage paid, 60 cts. per 100 plants to all places in the postal union, on lots for 100 to 400.

On larger quantities the prices are as follows:

- GROUP 1-Georgia, Louisiana. Mississippi, North Carolina and South Carolina; 500 plants, \$1.50; 1,000 or
- more at \$2.50 per 1,000. postpaid. GROUP 2-Maryland. Virginia, West Virginia, Pennsylvania, Delaware, New Jersey, Ohio, Kentucky, Ten-

WILL MATURE HEADS TWO TO THREE WEEKS EARLIER THAN YOUR HOME-GROWN PLANTS.

nessee, Alabama, Arkansas, Florida, Missouri; 500 plants for \$1.65; 1,000 or more at \$3.00 per 1,000, postpaid.

- GROUP 3—Connecticut, Kansas, Illinois, Indiana, Iowa, Massachusetts, Michigan, New Hampshire, New York, Oklahoma, Rhode Island, Texas, Vermont and Wisconsin; 500 plants for \$1.95; 1,000 plants or more at \$3.50 per 1,000, postpaid.
- GROUP 4—Arizona. Colorado, Minnesota. Nebraska, New Mexico, North Dakota, South Dakota, Utah and Wyoming; 500 plants for \$2.00; 1,000 or more at \$3.75 per 1,000, postpaid.
- GROUP 5-All States not listed, also Canada, Cuba and Mexico; 500 plants for \$2.35; 1,000 or more at \$4.25 per 1,000, postpaid. Prices by express, F. O. B. growing station, buyer pay-ing charges. In lots of 1,000 to 4,000 at \$2.25 per
- 1,000. 5,000 to 8,000 at \$2.00 per 1,000. In lots of 10,000 or over at \$1.90 per 1,000.
- Plants are Packed for parcel post shipment either 100, 200, 300, 400, 500 or 1,000 plants to package. For 200, 300, 400, 500 or 1,000 plants to package. For express shipment 1,000 or 2,000 plants to package. Order in these quantities. They weigh 20 to 40 pounds per thousand plants packed for shipment. TERMS, CASH WITH ORDER, PLEASE. No plant shipped C. O. D. We advise that you have all ship-morte of two thousand plants are here every by more
 - ments of two thousand plants or less sent by parcel post.

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Add 15 cts. per 100 for Postage.

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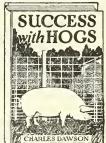


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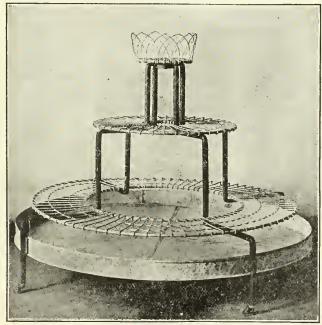
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The Chalk Flower Stand Ready for Use.



A GARDEN IN YOUR HOUSE OR ON YOUR PORCH.

By loosening one bolt, it can be knocked down flat. The Chalk Patented Flower Stand is a practical invention by a practical man. An invention inspired by his needing something which he could not buy—HE MADE IT.

The illustrations show the Chalk Plant Stand set up with drip pan in position. The stand is designed with a view to strength, holding capacity, convenience and to having a stand that will give the plants light and air, and on which they may be freely watered either in the house or on the porch. As a result the problem of having house plants of luxuriant growth is simplified.

The Chalk Plant Stand is also valuable to florists, as it is just the thing for displaying plants in stores and on market stalls.

PRICE......\$12.50





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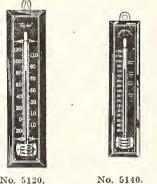
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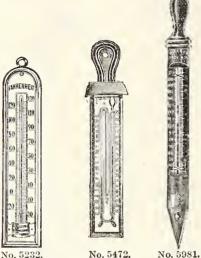


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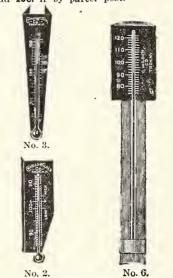
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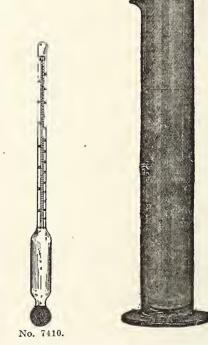
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BUCKET SPRAY PU

Fig. 632. PATENTED

NUT

MALLEABLE

PATENT AGITATOR

BRASS BALL VALVES

ELLIN.

PAT.

26

HOSE

DETACHED

Fig. 632 represents the Myers Lever Bucket Spray Pump, made of brass, and fitted with brass ball val-ves and patented agitator. The cyl-inder is 1½ inch in diameter with solid plunger. The air chamber is fifty per cent larger than the ordi-nary bucket spray pump, has malle-able iron foot rest and malleable lever. This pump can be operated with one-half the power of the ordi-nary hucket spray pump, owing to the advantage of the lever handle. This pump can also be used as a barrel spray pump the head having two holes in for bolting same to the barrel. barrel.

We recommend a Bordeaux Spray Nozzle for whitewashing and paint-ing, if you desire the Vermorel Noz-zle instead of the Bordeaux, please specify.

Fig. 632, No. R 324 Lever Bucket Spray Pump, with agitator, complete with hose, Bordeaux, coarsc spray and solid stream nozzle. **Our Special Price....\$7.50**

No. R 324A Lever Bucket Spray Pump, with agitator, complete with hose, Bordeaux, coarse spray and solid stream nozzle and eight foot pipe extension.

Our Special Price \$8.00

No. R 324B Lever Bucket Spray Pump, with agitator complete with hose, Bordeaux coarse spray and solid stream nozzle and eight foot pipe ex-tension with stopcock.

Our Special Price \$9.00



are so arranged that the labor of pumping is all on the downward stroke of the piston and nothing on the up. The effect of this ope-ration while pumping is to hold the pump down. The foot rest steadies the pump, holding it in proper position. It is provided with a large air chamher and has brass hall values and detachable brass ball valves and detachable hose; the nozzle throws a conhose; the nozzle throws a con-tinuous spray, and is not affected by the movement of the plunger. Will throw a solid stream fifty feet, and is of unusual value in spraying trees, washing windows and buggies, extinguishing fires, spraying flowers and etc.

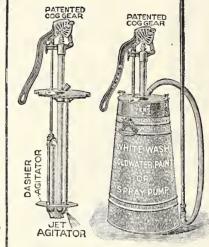
No. 327¹/₂, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle.

Our Special Price.....\$4.75

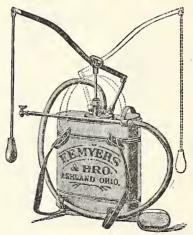
No. 328, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle, and an eight-foot pipe extension.

Our Special Price.....\$5.25





THE LEVER KNAPSACK SPRAY



spilling or splashing of the liquid., Holds 7 gallons. This is an excellent outfit for whitewash-ing chicken houses, fences and outbuild-ings. For spraying trees, shrubbery, plants and in fact anything where a small sprayer can be used. This out-fit will be found just the thing. The pump used in this outfit is the same as the No. 324 Sprayer as shown under Fig. 632, fitted with Bor-deaux nozzle, br as s ball valves, and has jet and dasher agitator. Complete with Hose, Nozzle, Agitator and Extension Rod.

This General Purpose

Sprayer with patent Double Agitator is a most complete and ser-viceable outfit. The tank is made of heavy

tank is made of heavy galvanized iron with a wide bottom so as to set steady in operation. The cover is remov-able, is held securely in place by two thumb nuts, one on each side, which holds the cover tight and prevents spilling or splashing of the liquid, Holds 7 gallons.

Our Special Price, \$13.75

Fig. 547.-No. 330 Galvanized.

Tank holds 5 gallons, is fitted with and strainer, lid, which can be re-moved. This Pump has lever, large air chamber, ball val-ves, solid plunger and agitator. Fitted with 5 feet 1/2-inch hose, pipe extension and Bordeaux spray nozzle; can be graduated from a fine mist to a solid stream. or shut off entirely.

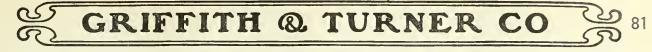
Our Special Price, \$12.50

THE PERFECT KNAPSACK SPRAY PUMP Fig. 547.-No. 331. Copper.

Is the same as No. 330, except tank is constructed entirely copper. Complete with hose, stop-cock, pipe extension and of copper. Bordeaux nozzle.

Our Special Price.....\$20.00

FOR SPRAYING MATERIALS, SEE PAGES 93 TO 97.



ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

AUTO SPRAY No. 1

Uses

For Spraying Potatoes

Vines, Shrubs, Trees, etc.

SE Sal

Guaranteed

UFACTURED BY THEEC BROWN GO

CHESTER.

Weight empty, 7 lbs. Weight loaded, 39 lbs. Weight shipping, 15 lbs. A Self-Operating or Au-tomatic Sprayer.

tomatic Sprayer. The Auto-Spray No. 1 is one of the best on the market. It is very strong and practical. W h e n properly charged con-tains three gallons of solution and one gallon of compressed air. Ten to twelve strokes of the plunger will compress the air and two pump-ings will empty the en-tire contents. re contents. All parts which tire

come in contact with solution are made of brass, and the handle and other parts are made of malle-

parts are made of malle-able iron. Length of cylinder, 21 inches; diameter of cyl-inder, 7 inches; capacity, about 4 gallons; weight, empty, 7 pounds. Auto-Spray No. 1C – Galvanized Reservoir, Stop Cock. Our Special Price, \$6.75. Auto-Spray No. 1D –

Auto-Spray No. 1D — Galvanized Reservoir, Auto-Pop. Our Special Price, \$7.25.

Auto-Spray No. 1A – Brass Reservoir, Stop Cock. Our Special Price, \$9.50.

Auto-Spray No. 1B-Brass Reservoir, Auto-Pop. Our Special Price, \$10.00. EXTRAS.

 Auto-Pop Nozzles
 \$2.00

 Extension Pipe, brass, 2-foot length, 60c.; galvanized
 45

 Brass Elbow Extension
 .30

 Double Row Attachment
 1.50

 Brass Strainer for straining solutions used in Auto-Spray 1.40

AUTO SPRAY No. 40B

Capacity, 8 gallons. Net eight, 33 pounds, Shipping weight, 45 pounds. The Auto-Spray No. 40 B is especially adapted for spraying whitewash. cold-water paint, as well as for spraying trees, garden vegetables, vines and plants. Correctly designed on mechanical prin-ciples, with every unnecessary part elim-inated. The machine is equipped with 8-foot high-grade spray hose, 8-foot iron exten-sion rod, lever shut-off and latest pattern Vermorel Nozzle. Auto-Suray No. 40B. with 8-gallon gal-

Auto-Spray No. 40B, with 8-gallon gal-nized tank equipped as described

described vanized above.

Our Special Price.....\$20.00

AUTO SPRAY No. 40D

The Auto-Spray No. 40D is mounted on a steel truck, with a 20-inch steel wheel with a broad tire, and is especially adapted for garden, lawn and vineyard work. The tank is made of heavy galvanized steel with a broad, flat bot-

lawn and vineyard work. The tank is made of heavy galvanized steel with a broad, flat bot-tom, which rests firmly on the ground while in operation. Plunger Brass 1½ inches in diameter, 3 to 4½-inch stroke as desired. The plunger operating in connection with the air chamber ensures greater reserve capacity than is usually found in this size machine. Plunger style pump. Graphite packing adjustable from the outside by tightening two bolts. Brass ball valves. Suction pipe fitted with brass strainer. Mechanical agitator operated from the handle. The top casting on tank has broad flange, which prevents the solu-tion from slopping over. Equipped with 8 ft. 3 heavy spray hose, 8 ft. iron extension, lever shut-off and latest pattern Vermorel nozzle. Repair list, with formula for mixing whitewash and cold-water paint, with each machine. Price, complete with 12-gallen galwanized-steel tank. \$28.00.

Price, complete with 12-gallen galvanized-steel tank, \$28.00.

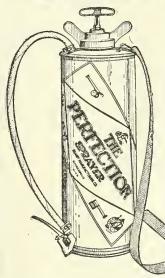
GRITCO-D SPRAY This is one



wood tank with hinged diameter, with 2-in. tires. ment, 33 in. Six feet ½-in. dischar

discharge hose and Bordeaux nozzle. Shipping weight, 120 lbs. Price, complete as described, \$32.00.

PERFECTION" SPR



Built on the best lines, of high-grade material.

convenient outfits for gen-eral use. As an all-round

eral use. As an all-round utility sprayer it cannot be beaten. It is particu-larly adapted for both the garden and greenhouse, also for orchard use, as well as for spraying live stock. It is a splendid whitewashing outfit.

SPECIFICATIONS.

The tanks are made of heavier metal than has ever been used in sprayers of this kind, are lock seamed at the corners to convex heads of metal two gauges heavier than the sides.

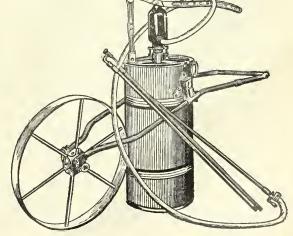
The pump is 1%-inch seam-less brass tubing with a brass valve, and is sealed into the top of the tank with heavy threads following the construction used in the best makes of fire ex-tinguidance. tinguishers.

The hose is attached to the sprayer at an angle so that it will not kink and become broken.

The hose is equipped with a special automatic shut-off nozzle. All sprayers tested to 60 pounds before leav-ing factory. Weight, 9 pounds emnty

empty.

Galvanized Steel \$7.25 All Brass..... 10.00



'ig. 1188 Weight, 41 lbs.

82

GOULD'S

"Fruitall"

Spray Pump

All Working Parts Bronze

The Fruitall Sprayer The Fruitall Sprayer is first-class in every respect. While the sign allows it to be sold at a very reason-able price, and al-though lighter in cengeity than the "Pocapacity than the "Po-mona," we offer it as a thoroughly service-able sprayer. The able sprayer. The sprayer is held in place in the barrel by an adjustable clamp at

the top fitting over the end of a stave, and an anchor at the bottom of the barrel. The plunger is packed from the outside, so it is not necessary to take the entire pump apart to repack. Plunger, 2 inches diameter; stroke, 4 inches.

List Special Price. Price.

> 14.75 17.80 23.75

25.35

22.75

28.70

32.00

18.50

24.50

26.15 24.25

.20

- Fig. 1188 .- Pump only with Agitator and Hose \$13.20

- 44.06 Barrel
- 38.00
- Barrel Fig 1182.—Outfit E.—Pump with Agitator, Hose Bands and Couplings, Two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose. Fig. 1182.—Outfit F.—Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose, fitted in Powel
- The second sec 50.00 55.60
- 30.43
- 43.45
- 45.15
- 40.40
- 52.40
- Bands and Couplings, one Mistry, Jr., Nozzle, fitted in Barrel.
 Fig. 1188.—Outfit K.—Pump with Agitator, Hose, fitted in Barrel.
 Fig. 1188.—Outfit K.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire Wound Spray Hose, fotor Iron Extension Rod with Brass Stop-Cock, fitted in Barrel.
 Fig. 1188.—Outfit L.—Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr., Nozzles, two 15-ft. leads No. 2 Wire-Wound Spray Hose, fig. 1188.—Outfit M.—Pump with Agitator, Hose Bands, and Couplings, two Mistry, Jr., Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose, fitted in Barrel.
 Fig. 1188.—Outfit M.—Pump with Agitator, Hose Bands, and Couplings, two Mistry, Jr., Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose, two \$-foot Iron Extension Rods with Brass Stop-Cocks, fitted in Barrel.
 No. 1 Spray Hose, in longer lengths, per foot.
 ALL PENCES IN CATAGE SURGET TO CALL 30.20 ... 57.96 30.50 .36

No.	2	Sui	av	Hose,	in	longer	leng	ths.	\mathbf{per}	for	ot	.44	.25
	A	LI.	PR							CT	TO	CHANGE	
					7	VITHO	UT I	NOT	ICE.	•			



Spray Pump

Plunger-Diameter, 2 ½ inches; stroke, ad-justable to 3, 4, 5 inches; discharge, ½inch hose.

Outside Packed Plungers. No Leather Packings.

For small orchards of a few acres; a good barrel sprayer that will meet every re-quirement. The factory has devoted much time to the study of practical barrel spraypractical barrel spray-ers, and it is with the utmost confidence we list the "Pomona" as first in our complete line. All of the work-ing parts are solid bronze.

Our

The pump has a steel air chamber, extending from top of pump to valve chamber, making it easy to get up sufficient pressure to continue spraying for some time after pumping has stopped. It is equipped with a long adjustable handle. The pump may be placed in any length barrel, as the barrel plate is adjustable. The agitator is simple, but very effective.

		Special Price.
Fig. 1100.—Pump only with Agitator and Hose Coupling	\$38.72	24.40
Fig. 1100.—Outfit A.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr.		
Nozzle for one lead, but without Hose	41.42	25.75
Fig. 1100.—Outfit B.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle and 15-foot lead No. 1 Spray Hose		
and 15-foot lead No. 1 Spray Hose Fig. 1100.—Outfit C.—Pump with Agitator, Hose	46.82	28,25
Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 1 Spray Hose, Fitted in		
Barrel	58.82	34.25
Fig. 1100.—Outfit D. —Pump with Agitator. Hose		
Bands and Couplings, one Mistry, Jr., Nozzle, one 15-ft. lead No. 1 Spray Hose, 8-foot Iron		
Extension Rod with Brass Stop-Cock, fitted in Barrel	61.62	35.85
Barrel Fig. 1100.—Outfit E.—Pump with Agitator, Hose	00	00.00
Bands and Couplings, Two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose	55.56	33.75
Fig. 1100.—Outfit F.—Pump with Agitator, Hose Bands and Couplings, 2 Mistry, Jr. Nozzles, 2		
15-ft leads No. 1 Spray Hose, fitted in Barrel.	67.56	39.75
Fig. 1100.—Outfit G.—Pump with Agitator, Hose Bands and Couplings, Two Mistry, Jr. Nozzles,		
two 15-foot leads No. 1 Spray Hose, two 8-foot Iron Extension Rods with Brass Stop-Cocks,		
fitted in Barrel	73.16	43.00
Fig. 1100.—Outfit H.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one		
15-foot lead No. 2 Wire-Wound Spray Hose	47.99	29.50
Fig. 1100.—Outfit J.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire Wound Spray Hose,		
one 15-foot lead No. 2 Wire Wound Spray Hose,	59.99	35.50
fitted in Barrel. Fig. 1100.—Outfit K.—Pump with Agitator, Hose	00100	00.00
Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire Wound Spray Hose,		
8-foot Iron Extension Rod with Brass Stop- Cock, fitted in Barrel.	62.79	37.15
Fig. 1100.—Outht L.—Pump with Agitator, Hose		-
Bands and Couplings, two Mistry, Jr. Nozzles, two 15-ft. leads No. 2 Wire-Wound Spray Hose	57.96	35.25
Fig. 1100.—Outfit M. —Pump with Agitator, Hose		
Bands and Couplings, two Mistry, Jr., Nozzles, two 15-foot leads No. 2 Wire Wound Spray		
Hose, fitted in Barrel	69.96	41.25
Fig. 1100.—Outfit N.—Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose,		
two 15-foot leads No. 2 wire wound Spray Hose, two 8-foot Iron Extension Rods with Brass		
Stop Cocks, fitted in Barrel No. 1 Spray Hose, in longer lengths, per foot	75.52	44.50 .20
No. 2 Spray Hose, in longer lengths, per foot	44.	.20



OUR SPECIAL PRICE Pump with Strainer and Hose Couplings CYLINDERS DOUBLE DISCHARGE APPROX. LIST PRICE SUCTION *Regularly furnished with flexible coupling WT.LBS. Stroke Diam. 120 \$132.00 \$82.50 21% ins. 1/2 in. Hose 2 ins 1 in. Hose Pump with flexible coupling, pressure gauge, water relief valve.10 ft. 1 in. rnbber suction hose and strainer, Fig. 70½, 4 7/16 in. diameter; two 25-ft. lengths of ½-in. discharge hose and couplings; two brass Y connections and four "Mistry, Jr." nozzles with fine discs. OUTFIT S. \$202.00 \$126.25

Additional suction and discharge hose furnished at extra cost, if ordered. *When pump is to be direct connected to engine, the diameter of the engine shaft should be given when ordering pump. Pulley furnished instead of flexible coupling, if ordered, at extra cost, depending on size.



1631-With Flexible Coupling.

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

DOUBLE-ACTING SPRAY PUMP MOUNTED ON SKIDS

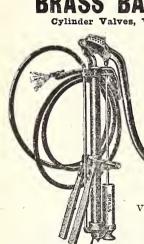
RASS UNION

The general construction of this Spray Pump Outfit cannot be too bigbly commended. This desirable outfit meets the demand for a pump that can be used in a wagon or cart. It cannot upset. One of the most desirable outfits on the market.

Outfit A-Pump, complete, 50-gal. barrel mounted on skids, with pressure gauge: one 15-ft, lead 1/2-in. discbarge hose, 8-ft. pipe extension with lever sbut-off, spray nozzle and mechanical agitator.

Price, \$53.00.

Outfit B-Pump, complete, 50-gal. barrel mounted on skids, with pressure gauge; two 15-ft. leads of 1/2-in. discharge hose, 8-ft. pipe extension with lever shut-off, spray nozzles and mechanical agitator.



CHAIN

SALE WERE ALLEN

MECHANICAL

Price	• •	•	• •	• •		•	•			•	•	•	•	\$6	0,	0	C)
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BRASS BARRELL SPRAY linder Valves, Valve Seats and Discharges, All Brass.

No. 304-Pump only, without bose or nozzle.

Our Special Price.....\$12.65

No. 605—Pump, with 15 feet No. 1 ½-inch Spray Hose and Vermorel or Bordeaux Nozzle.

Our Special Price.....\$17.25

No. 305A—Pump, with 15 feet No. 2 Wire-Wound 42-inch Spray Hose and Vermorel or Bor-deaux Nozzle.

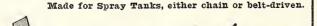
No. 306—Pump, with two 15 feet leads of No. 1 ½-inch Spray Hose and two Ver-morel or Bordeaux Nozzles. Our Special Price.....\$21.85

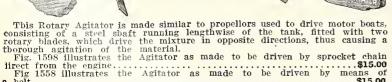
No. 306B—Pump, with two 15 feet leads of No. 2 Wire-Wound ½-inch Hose and two Vermorel or Bordeaux Nozzles.

Our Special Price\$23.65

The above prices include Paddle Agitator.

ROTARY AGITATOR





\$15.00 a helt



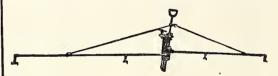
We are having our Spray Tanks made of 1¹/₂-inch clear pine, which has proven to be the best material for this purpose. The tanks are gripped with steel rods.

Style No. 2-Weight, 175 lbs.; capacity, 150 gal-lons; dimensions, 4 feet long, 3 feet wide, 2 feet 6 inches high.

Price, complete with Bolsters, \$20.00. Other sizes quoted on application.

GOULD'S FIELD GROP SPRAYER

Used in connection with any Hand or Power Spray Pumps



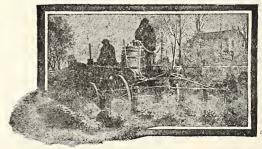
The best and cheapest crop sprayer on the market. Easily attached to tail-board of a wagon, and when not in use can be folded into small space. It is made to spray four or six rows, any distance apart, up to 44 inches, or cover a space 14¹/₂ or 22 feet in width. Connection allows sprayer to be easily raised or lowered; spray to be thrown forward, backward, up or down. up or down.

Figure 1322.

Complete with four "Mistry, Jr.," Nozzles and coupling for connecting to discharge hose of any barrel or power sprayer. List Price, **\$30.80; Our** Special Price, \$19.25.

with 6 "Mistry, Jr." Nozzles. List Price, Same. \$38.70; Our Special Price, \$24.20.

Connection which clamps to wagon. It is adjustable to any height.



This illustration shows the crop-spraying at-tachment attached to a wagon. The above prices do not include the sprayer.

FOUR ROW FIELD SPRAYER CAPACITY 50 GALLONS

GRIFFITH @ TURNER CO

ONE HORSE

The Auto-Spray No. 39 is the result of our 13 years of care ful study and experience in manufacturing traction sprayers. I was designed to meet the requirements of the most particula growers of field crops, nursery stock, grapes, etc. most particular

We guarantee this machine with 4 nozzles, large aperture, .081 inches in diameter, to maintain a pressure of not less than 150 lbs., or with 8 nozzles, holes in apertures .059 inches in diameter, a pressure of 100 lbs. or better.

The pump on the Auto-Spray No. 39 is driven by a short chain directly connected from the axle and is geared so that there is little draft from the operation of pumping.

By a convenient clutch arrangement this pump may be thrown out of gear with the wheels so that the machine may be drawn without working the pump and this also enables the operator to manipulate the pump with the hand lever while spraying trees.

IN DETAIL

Azle—Cold rolled steel, 1%-inch diameter. Tra Wheels adjustable on the axle for various widths. Tracks two rows.

Wheels-4 feet diameter, 3-inch tire. Pump-Double cylinder. Plunger style. Brass plungers, 21/8inch diameter.

Packing—Graphite composition, packed from the outside. Adjustable without withdrawing the plunger by simply screwing two nuts over the gland.

Valves-Brass check. Broad brass seats. Set in pump manifold. Can be easily ground or replaced.

Agitator-Revolving twin paddles.

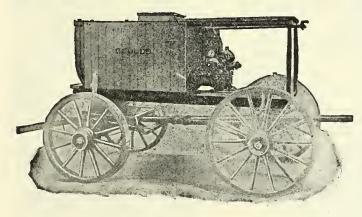
Tank-50-gallon, new barrel, or as ordered. An extra charge will be made for 100-gallon tank. Air Chamber-Large capacity, tested under high pressure.

Nozzles-Non-Clog Junior Nozzles or as specified. Nozzles on field attachment adjustable to correspond with track. For barrel, 1 horse; for 100-gallon tank 2 horses are advisable.

Spray Boom may be raised or lowered on the two uprights. Each machine has a perfect valve control and is equipped ready for going to work. Our SHIPPING WEIGHT-700 lbs. Special

Auto-Spray No. 39A—Complete for 4 rows, 4 nozzles, iron piping, 50-gallon barrel, spray boom A..... \$156.00

GRIFFITH & TURNER POWER SPRA The Best that Can be Built



This outfit consists of our Fig. 1631 "Sturdy" Power Sprayer, described on page 83, and a 150-gallon tank of 1¹/₈-inch clear cypress, mounted on 4-inch steel channels. The Fig. 1631 spray pump is fitted with our special flexible coupling so that it can be direct-connected to any of the small farm engines. The pump is mounted on a ¹/₄-inch steel plate platform which is sufficiently large to accommodate the engine.

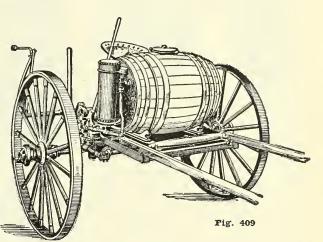
The cypress tank is built of tongued and grooved staves which are rounded both inside and out. The top of the tank is fitted with angle iron corners. The tank has an agitator of the propeller type which is operated by chain and sprocket from the pump shaft.

The engine cab is mounted on an angle iron frame and has sliding doors which can be pulled forward to enclose the engine.

The outfit is furnished without engine, so that in case the fruit grower already has an engine he can utilize it in connection with this outfit. Where an engine is wanted with the outfit we can furnish same, and would be pleased to quote prices. Engine can be connected up and disconnected by inexperienced help. Overall length of rig is 8 feet. Tank is 4 feet in length with height of 30 inches.

for direct-connection to en- gine. 6 50 \$170.00 \$10-10. ballboo brass filled CA tension rods, with shields and brass stop-cocks. 670 \$195.00	Outfit B 4-inch steel channel as de- scribed above. Pump fitted with relief valve, pressure gauge and flexible coupling 0utfit BB wire-wound ½-in. spray hose and couplings, two Mis- try, Jr., Spray Nozzles, two 10-ft. bamboo brass-lined ex-
--	--

Price does not include gear. Can furnish Mounting for this Sprayer. See No. 22 Low-Down Handy Steel Wheel Farm Wagon listed on page 241.





poses. The nozzle is adjustable for fine or coarse spray. The Sprayer being made entirely of brass, there are no parts to rust out if used with strong solutions. The "Vapor" Sprayer is nicely nickel plated, making it attractive, and is easily operated by man, woman or child. **OUR SPECIAL PRICE \$1.50** (post-paid to any address).

Price....\$1.50

hose coupling.

Heavy Gal-vanized Strainer with Brass Mesh\$1.75



Price.....\$3.00 nozzle to any angle with this

elbow. Price.....\$1.25

Parcel post weight of article on this page 1 pound.



RUBBER HOSE

GRIFFITH @ TURNER CO



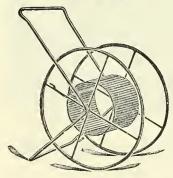
Our brands of Hose are all made up to our order, experience having taught us that High-Grade Hose is the cheaper. Low-Grade Hose will not give satisfaction.

These brands of Hose are guaranteed to be as represented, and have given our trade satisfaction for years. Per Ft.

GRIFFITH & TURNER CO.'S EXTRA.—3-ply, ¾-in., in 25 and 50-foot lengths (80 pounds pressure)..... .21

GRIFFITH.—6-ply, ¾-in., in 25 and 50-foot lengths (125 pounds pressure). . .22

HOSE REELS

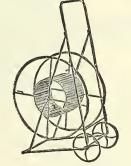


No. 10 All-Steel Reel.

Diameter of wheels...22 in. Diameter of drum..... 9 in. Width between wheel..10 in. Length of handle.....28 in. Capacity, 100 ft 34-in. hose. Weight about 17 lbs.

The large wheels roll eas-ily over rough or soft ground. Nothing to get out of order.

Rigid-Durable-Attractive. Price\$2.75

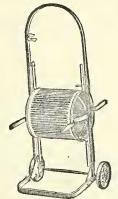


No. 200 All-Steel Reel.

Diameter of wheels... 7 in. Diameter of reel.....20 in. Diameter of drum..... 9 in. Width of drum.....10 in. Height of handle 39 in. Capacity, 100 ft. 34-in. hose. Weight about 25 lbs.

The weight of the hose is on the wheels, not on the hands, when being moved about. This reel is light, yet rigid and durable.

Price\$4.00



"Victor."

"VICTOR" REEL is constructed with channel steel frame; strong, cast-iron wheels; solid steel reel arms and 9-inch drum of heavy cor-

drum of heavy cor-rugated steel. Weight, 12½ lbs., bundled for ship-ping. Capacity, 100 ft. of ¾-inch rubber hose Price.....\$2.25

MOULDED GARDEN HOSE



GRITCO CONTINUOUS LENGTH SEAMLESS HOSE

The construction of this Hose is entirely different from regular Hose. Over a seamless tube of high-grade rubber is braided two plies of tightly twisted cotton yarn. Between each ply is placed a distinct layer of high-grade

Tubler. The Hose is protected by a cover made of rubber specially compounded. It is vulcanized in patented moulds under very

high pressure. This Hose is manufactured in continuous lengths up to five hundred feet.

34-inch, per ft., not coupled, 24c.; coupled, 25c.

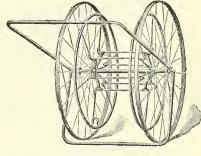
HOSE FOR SPRAY PUMPS

We do not recommend a cheap Hose for spray work. Large sprayers handling a high pressure should use our No. 2, $\frac{1}{2}$ -inch spray hose. This Hose is made especially for this work. It is extra strong and is wire wound, adding to its strength, and insuring long life, as the wire also protects it from rough usage

strength, and insuring long me, as the first from rough usage. The No. 1, ½-inch Spray Hose will be found satisfactory for the various hand pumps. Spray hose is made especially for spray pumps, being so constructed that spraying solutions have the least possible effect on them. Per Foot. Solf

72 - men Oriore	
1/2-inch Spray No. 1	.20
½-inch Spray No. 2, wire-wound	.25
1-inch 3-ply Hose	.30
1-inch Hard Rubber Suction Hose	.35
2-inch Wire-Lined Suction	.50
1/2-inch Hose comes in 10, 15, 25, 30 and 50-foot length	s. We

cannot cut other lengths. 2-inch Hose comes in 5, 10 and 20foot lengths.



PARK REEL No. 21.

A tubular iron reel and framemounted on steel wheels, tires 11/2 inches.

Height of wheels 28	in.
Outside width over all 26	in.
Shipping weight 45	lb.
Capacity, 34-inch hose200	ft.
Capacity, 1-inch hose100	ft.

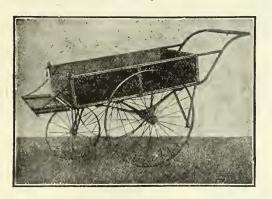
PRICE.....\$11.00

The No. 20 Tubular-Wheels, 24 in-ches; weight, 20 pounds. Capacity, 150 feet %-inch Hose.

Price.....\$5.00







MONITOR CART No. 53

The Monitor Construction. The frames of the bodies are made of spe-cial carbon steel, riveted together with best Norway rivets. It is very light and strong, with durable first quality basswood box inside, and have oil-tempered half eliptical springs. The leg being V-shaped and pivoted at its two extremities to the bodies, forms an effective handle brace. Lightness. We claim for the MONITOR Hand Cart extreme lightness. These carts weigh about one-third as much as the old-fashioned wooden cart

These cart. They are especially adapted to the uses of manufacturing or mercantile business, and are indispensable to grocers, bakers, laundries, printers, painters, plumbers, paper-hangers, carpenters, tinsmiths, gardeners, and general family uses.

30-inch wheels.

No. 53 Box 29 x 44 x 10 inches 3/16-inch spokes. Weight, 110 lbs.

MONITOR CART No. 23

The great convenience of a three-wheel cart will be appreciated when you realize that the weight is all upon the ground and none on the party pushing it. This cart is especially designed for convenience. It is nicely made, the body is finished in green nicely striped and varnished, the gear

made, the body is finished in green nicely striped and varnished, the gear is finished in red. It is just the thing for printers, grocery stores, factories, and in fact its many uses would be hard to enumerate. The frame of bodies are made of special carbon steel, riveted together, the bodies are large, giving ample room for a large load. In the con-struction of Monitor carts we use the very best material, making this the **lightest** and **strongest** cart obtainable.

No. 23 MONITOR

Box 23 x $41\frac{1}{2}$ x 10 inches. Capacity, 600 lbs. h wheels. 3/16-inch spokes. Weight, 103 lbs. 30-inch wheels.





MERIMAC CART No. 132

This cart is built especially for country use, where there are not any pavements, and a three-wheel cart is not necessary. In the construction it is just as high-grade as other carts listed and will be found a very use-ful addition on every place. The running gear is made of steel, the wheels are of the bicycle pattern, steel spokes, electrically welded tires and malle-able hub, this construction gives the greatest strength.

The springs are so constructed and arranged as to carry the load in a way that makes the cart easy to push.

Body is finished in green, nicely striped and varnished. The gear is finished in red.

No. 132 MERIMAC

Box 23 x 411/2 x 91/2 inches. 26-inch wheels.

Capacity, 250 lbs. Weight, 66 lbs.

OUR SPECIAL PRICE.....\$12.50

HANDY LOW PLATFORM CART

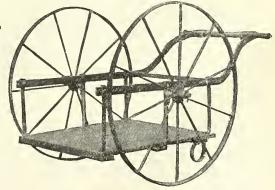
A handy cart for Farm and Dairy use. The low-down platform makes loading and unloading easy. It will carry five milk cans, water barrel or farm produce in sacks. The parallel steel bands on the sides and wooden back rest make possible a wider range of use and permits carrying small packages of merchandise.

SIZE OF PLATFORM, 27 x 30 INCHES.

Woodwork painted drab, wheels yellow, iron work red, hand striped and varnished.

Crated for Shipment. Shipping Weight, 100 lbs.

OUR SPECIAL PRICE......\$17.00



INSECTICI

N OIL It will pay you to use this insecticide in greenhouses and on potted plants.

COMPANY This insecticide destroys insects in poultry-houses and homes.

Soluble

NO DISAGREEABLE ODOR.

Guaranteed by the Lemon Oll Company under the Insecticide Act of 1910, Serial No. 321. NO POISON

THIS INSECTICIDE is death to pests—is safe to

plants—is harmless to user -is low in price-is free from disagreeable odor.

We recommend Lemon Oil Co.'s Standard Insecticide. It is used by the most promi-nent florists and seedsmen to destroy Scale, Mealy Bug, Rust, Aphis, Caterpillar, etc., on Palms, Rose Bushes, Rubber Plants, Ferns, etc. It leaves no disagreeable odor on blooms or foliage-advantages over the vile-smelling soaps and powders-especially for indoor use. Being Poisonless, it is not dangerous to use.

This will be found an excellent wash for dogs and other animals; it relieves Mange, destroys Lice and other insects, and gives the coat a beautiful glossy appearance. Contains no poison to injure the animal, and being liquid, gets through the hair to the hide.

It will destroy Lice and other insects in poultry houses.

It will also kill Roaches, Ants and other insects that infest houses.

1/2	Pint				•	•														•	\$.30
1	Pint		•			•	•		•	•			•		•						.50
1	Quart	•						•				•									.90
$\frac{1}{2}$	Gallon	•	•	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.50

POISON

KIL-WEED NOT TO BE USED ON LAWNS

A SCIENTIFIC WEED DESTROYER. FREE FROM ODOR. By Analysis it has Been Found There is no Stronger Weed Killer on the Market.

An unsurpassed preparation for the warret. An unsurpassed preparation for the removal of grass, weeds, vines and bushes from paths, roadways, gutters, streets and any other place from which it is desired to remove any and all vegetable growths, thus destroy-ing the breeding ground for mosquitoes. The work can be done in a speedy, thorough, economical and easy manner. The material has no bad effect on the ground, neither does it injure or discolor the brick, stone or marble curbing. curbing

curbing. No more digging and disfiguring of paths and roadways. Saves expense of several men. **KIL-WEED** not only kills weeds, but destroys seed germs and roots of plants. Can be used with an ordinary sprinkling can. One gallon **KIL-WEED** will make 30 to 35 gallons treating liquid when mixed with water. One man with a sprinkling can in one hour can do as much or more than six men could in one-half day, and do the work better. Judgment should be exercised in using **KIL-WEED**, as it is impossible to give full directions to suit every case. If the weeds are large and strong the solution should be made stronger than for ordinary grass and **weeds**. They should be cut down so that the solution can reach the roots.

	that the solution can reach the roots.
1-Quart Can\$.40	5-Gallon Can\$5.00
¹ / ₂ -Gallon Can	10-Gallon Can 9.50
1- Gallon Can 1.25	1 Barrel, per gallon 175
FULL DIRECTIONS WITH E	VERY CONTAINER.
WRITE FOR SPECIAL	CIRCULAR.



PRICES:

POISON

DIRECTIONS FOR USE:

For Mealy Bug.—1/2 pint Standard Insecti-cide to 4 to 6 quarts of luke-warm water or 1 tablespoonful to 2 cvps of luke-warm water, When dipping for this insect the plants should remain in the liquid from 10 to 15 seconds and kept in continual motion. When syringing use the finest sprayer and apply the liquid with force force.

For Brown and White Scale on Palms, Rub-ber Plants, etc.— $\frac{1}{2}$ pint Standard Insecticide to 4 quarts warm water or 1 tablespoonful to 2 cups warm water, applying with sprayer or

2 cups warm water, applying with sprayer or sponge.
For Thrip, Red Spider, Caterpillar, Black and Green Fly.—½ pint Standard Insecticide to 2 or 3 gallons water or 1 tablespoonful to 3 or 4 cups water. Either spray or dip.
For Destroying Mites.—½ pint Standard Insecticide to 4 or 6 quarts of water. Water the plants with the liquid 2 or 3 times at intervals of 6 days.
For Destroying Ants.—½ pint Standard Insecticide to 1 gallon water. Well water their nests and runs several times in the course of a few days.
For Destroying Fleas, Insects, Relieving

For Destroying Fleas, Insects, Relieving Mange and Skin Diseases on Dogs and Other Animals.—1 tablespoonful of Standard In-secticide to 1 cup warm water; rub well into the hide, letting lather remain a few minutes.

For Destroying Lice and Other Insects in Foultry Houses.—1 part Standard Insecticide to 10 parts water.

For Destroying Roaches, Ants and Other Insects in Houses.—1 part Standard Insecti-cide to 5 parts water.

1 Gallon\$2.50

Directions on every Can.

Formaldehyde, 40% Solution IT IS VALUABLE AS A GERMICIDE, FUNGI-CIDE AND DISINFECTANT.

Soil Treatment-Sprinkle soil in the proportion of one gallon to one square foot with a solution of 2 to 3 pints Formaldehyde to 50 gallons of water. Do not plant for two weeks.

Household and other purposes — To disinfect clothing, soak it 24 hours in a solution of two pints Formalderyde and 5 gallons of water. To disinfect homes, stables, chicken-houses, etc., scrub with solution of one pint of Formaldehyde to two gallons of water.

Prices: 1/4-pt. bottles, 30c.; 1/2-pt. bottles, 50c.; 1-pt. bottles, 75c.; 1-gal. cans, \$4.00.

Bluestone (or Copper Sulphate)

The **Bluestone** market fluctuates, and we are therefore unable to put prices in catalogue. name best possible prices on application.

CRIFFITH Q TURNER CO

LIME-SULPHUR SOLUTION

The universally accepted spray material for dormant use is lime sulphur solution. Chemically made lime sulphur solution has now almost entirely supplanted the home-made solution because it is better.

This material combines the great fungicidal properties of sulphur with the scale remedy, and is specially recommended for peach and plum trees which need the combined treatment in the fall and spring. In spraying this material care should be exercised to avoid getting it in the eyes, and gloves should be worn to protect the hands.

Lime-Sulphur Solution is used both as an insecticide and a fungicide. As an ins cticide it is used principally against scale insects, especially the San Jose Scale. For scale insects it is applied while the trees are dormant and is diluted with 8 or 9 parts of water. As a fungicide it is used chiefly for the control of apple scab, 1½ gallons to 50 gallons of water. Lime-Sulphur may be used in combination with arsenate of lead and tobacco extracts. Paris Green should not be used with Lime-Sulphur.

FRICES:										
1-qt. Cans\$.40	10-gal. Cans\$5.50									
½-gal. Cans	¹ / ₂ -bbl., per gallon									
1-gal. Cans 1.00	1-bbl., per gallon									
5-gal. Cans 3.75	Special Price in Larger Quantities.									

B. T. S.

This is a trade name or designation for a definite chemical combination of sulphur with the mineral barium, instead of the mineral lime. In this combination practically all the sulphur is available as an insecticide and fungicide in its most active form.

By the use of barium in the place of lime it is not only possible to obtain the highest efficiency of the sulphur, but also to obtain a dry crystalline product that reduces the bulk in shipping about 75%, thus saving freight and reducing losses from leakage and waste.

Results of Spraying with B. T. S.—Experiments prove it to be equal to lime-sulphur solution, both as an insecticide and as a fungicide.

Directions. For dormant spraying to control scale, etc., use 12 pounds to 50 gallons of water. For growing period spraying on apples to control scab, etc., use 1½ to 2 pounds to 50 gallons of water.

5-lb. package\$1.30	50-lb. package\$8.00
10-lb. package 2.50	100-lb. package14.00
25-lb. package 5.00	300-lb. package

HAMMOND SLUG SHOT

A non-poisonous powder; it requires no further mixing or preparation; easily applied; not injurious or dangerous to animals, the person applying it or fruits and vegetables treated; destroys potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is sufficient for an acre.

HAMMOND'S GRAPE DUST

FISH OIL SOAP WITH TOBACCO

Apply for green-fly or aphis, one-half ounce to gallon of water; one ounce for mealy bugs and two ounces for most greenhouse scale. Outside purposes, double the strength for same kind of pest.

1/2	lb \$0.15	5 lbs
1	lb	5 lbs
2	lbs50	25 lbs 4.50
	100 lbs	\$15.00

FLOUR OF SULPHUR

Pound		25 lbs.		9c.	lb.
5 lbs		50 lbs.		8c.	lb.
10 lbs	lb.	100 lbs.		716 c.	lh.
Barrels (250 lbs.					
Darreis (200 lbs.	1	• • • • • • • •		υ.	
Prices subject	to cha	nge with	out notice		

PURE WHITE HELLEBORE

The cheapest and best preparation for destroying rose slugs, currant worms, etc. One-quarter pound, 25c.; half-pound, 45c.; pound, 80c.

Persian Insect Powder or Buhach

Price: 1/4 - pound, **30c.** Pound......**\$1.00**

DRY-Blow on with a bellows or gun.

SOLUTION—Dissolve one ounce to three gallons of water, and apply with syringe or pump.

KEROSENE EMULSION (Liquid)

Kerosene Emulsion is an efficient contact insecticide, especially valuable against plant lice and similar softbodied insects. It may be used for practically all the sucking insects, where it is necessary to use a contact killer. It is especially effective for Wooly Aphis on apples. For this spraying, considerable pressure on the pump should be maintained. For the root-infesting form, soak the ground around the trees after first removing the soil to the depth of two or three inches. After having applied the solution, replace the dirt.

Directions-One part Kerosene Emulsion to from four to fifteen parts of water.

1	quart	•		•		•		•	•	 				•			•		•	•	•	• •	 	. :	\$.4	5
1	gallon .					•	•	•	•	 		•					•	•	•	•	•		 		1	.1	5
5	gallons									 	•			•			•	•		•		. (4	1.5	0

INSECTICIDES CANNOT BE SENT BY PARCEL POST

INSECTICIDES—Continued

ARSENATE OF LEAD

Arsenate of Lead is an arsenical poison for use against insects that chew and for such insects as the fruit-flies that lap and suck up sweetened liquids. It has also been shown to have considerable fungicidal value both when used alone or used in combination with limesulphur.

Årsenate of Lead is prepared in two forms: paste and powder. When the powdered form is used, only half the quantity by weight is required. Both the paste and powdered form can be used in liquid sprays. The powdered form is also used for dusting. The principal insects for which Arsenate of Lead is

The principal insects for which Arsenate of Lead is used are: apple-maggot, brown-tail moth, bud-moth, cankerworm, codling moth, fruit-tree leaf-roller, gipsy moth, tent caterpillar, pear slug, curculio, etc. **Direc**tions: 2 to 3 lbs. paste to 50 gallons of water.

-	8							
Paste Form.	Powdered Form.							
1-lb. pkg., per lb45c.	1-lb. pkg., per lb65c.							
5-lb. pkg., per lb35c.	5-lb. pkg., per lb55c.							
10-lb. pkg., per lb30c.	10-lb. pkg., per lb50c.							
25-lb. pkg., per lb 26c.	25-lb. pkg., per lb45c.							
50-lb. pkg., per lb20c.	50-lb. pkg., per lb 39c.							
100-lb. pkg., per lb19c.	100-lb. pkg., per lb36c.							

ARSENITE OF ZINC (Powder)

Arsenite of Zinc.—This is a combination of arsenic with zinc to form a quick acting, adhesive insecticide for use on potatoes and some other truck crops. It is much more adhesive and less caustic than Paris Green and kills quicker than Arsenate of Lead.

The great advantages of Arsenite of Zinc are:

First—It kills the bugs so quickly they do not have a chance to cause serious injury to vines.

Second—It sticks to the vines so that it is not necessary to respray after every rain.

Third—It can be used at sufficient strength to insure results without burning or injuring the vines.

DIRECTIONS:

First—Apply as soon as eggs begin to hatch. For spraying use at rate of two pounds to the acre—this may require one or two pounds or more of the powder to fifty gallons of water depending upon the quantity of liquid distributed per acre by the spraying outfit. The spray tank should be partly filled with water and the powder sifted in slowly while the agitator is running.

Second—Make second application ten days to two weeks later in order to cover new growth.

Third—Make third application ten days to two weeks after second.

1-lb. pkg., per lb65c.	25-lb. pkg., per lb 45c. 50-lb. pkg., per lb 40c.
5-lb. pkg., per lb55c.	50-lb. pkg., per lb40c.
10-lb. pkg., per lb50c.	100-lb. pkg., per lb38c.
the second s	Construction and the second

ATOMIC SULPHUR

This is pure sulphur treated by a special process to convert it into a very finely divided state in the form of paste, so it can be readily diluted with water and applied as a spray to coat fruit and foliage with a thin film of sulphur to prevent germination of fungous spores.

It is recommended for the control of scab on peaches, brown rot on peaches, plums and cherries and cedar rust on apples. Directions: 5 to 7 lbs. to 50 gallons of water.

1-lb. pkg., p	oer 1b35c.	50-lb. pkg., per	1b 14c.
	per lb28c.	100-lb. pkg., per	
	per lb22c.	Barrels, 300 lbs.,	
25-lb. pkg., I	per lb 18c.	Barrels, 500 lbs.,	per lb.11c.

INSECTICIDES CANNOT BE SENT BY PARCEL POST

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BORDEAUX ARSENATE OF LEAD

This is a combination of Bordeaux Mixture and Arsenate of Lead, and is especially recommended for all spraying operations where it is desired to combine an insecticide for eating insects and a fungicide treatment in one spraying.

This combination is specially recommended where it is desired to include the Bordeaux treatment with the spraying for codling moth, also used for scab, cankerworm, case-bearer, bud-moth and for general use on garden vegetables and grape vines to kill leaf-eating insects and control fungous diseases. **Directions:** 6 to 8 pounds to 50 gallons water.

	Past	0 F 0	rm.	Powdered Form,						
1-lb.	pkg.,	\mathbf{per}	lb60c.	1-lb.	pkg.,	\mathbf{per}	lb68c.			
5-lb.	pkg.,	\mathbf{per}	lb50c.	5-lb.	pkg.,	\mathbf{per}	lb56c.			
10-lb.	pkg.,	\mathbf{per}	1b43c.	10-1b.	pkg.,	per	lb52c.			
25-1b.	pkg.,	\mathbf{per}	lb37c.	25-lb.	pkg.,	\mathbf{per}	1b46c.			
50-lb.	pkg.,	per	1b31c.	50-1b.	pkg.,	\mathbf{per}	1b40c.			
100-lb.	pkg.,	\mathbf{per}	lb30c.	100-lb.	pkg.,	per	lb39c.			
300-lb.	pkg.,	\mathbf{per}	lb291/2c.							

BORDEAUX ARSENITE OF ZINC

This is a combination of Bordeaux Mixture and Arsenite of Zinc. This combination makes a quick-acting poison for spraying where an insecticide is needed in combination with a fungicide. It is especially recommended for potato and tomato spraying. It is quick in action, very adhesive and will not burn the plant. Directions: 6 to 8 pounds to 50 gallons of water.

	Pasto	D To	rm.	Powdered Form.						
1-lb.	pkg.,	\mathbf{per}	1b60c.	1-lb.	pkg.,	per	1b68c.			
5-lb.	pkg.,	per	lb50c.	5-lb.	pkg.,	\mathbf{per}	1b56c.			
			lb43c.				1b52c.			
			1b39c.				1b46c.			
			lb31c.				1b40c.			
			lb30c.	100-lb.	pkg.,	per	1b39c.			
300-1b.	pkg.,	per	lb29½c.							

BORDEAUX MIXTURE

Bordeaux Mixture is a combination of copper sulphate and lime. It is a standard fungicide and may be used in combination with insecticides. Its use is indispensable in the control of black rot of grapes and the blight of potatoes. It is also used for apple-scab, bitter-rot, cedar rust, leaf spot and downy mildew. **Directions:** 8 to 10 pounds to 50 gallons of water.

Paste Form.	Powdered Form.							
1-lb. pkg., per lb45c. 5-lb. pkg., per lb35c. 10-lb. pkg., per lb30c. 25-lb. pkg., per lb25c. 50-lb. pkg., per lb19c. 100-lb. pkg., per lb18c. 1	1-lb. pkg., per lb58c. 5-lb. pkg., per lb48c. 10-lb. pkg., per lb43c. 25-lb. pkg., per lb38c. 50-lb. pkg., per lb32c. 00-lb. pkg., per lb31c.							
Barrels, 300 lbs., per lb. 171/4 c.								

CALCIUM ARSENATE

CALCIUM ARSENATE is a dry powder, very finely sub-divided, and of about the same physical texture as Arsenate of Lead Powder. That is, it is smooth and fluffy, and has the excessive fineness necessary to make spraying applications easy, and to give the highest poisoning results. 1-lb. pkg., per lb.....58c. 5-lb. pkg., per lb.....32c. 10-lb. pkg., per lb.....32c.

BORDEAUX MIXTURE AND PARIS GREEN (Powder)

A combination of Bordeaux Mixture and Paris Green. A very quick-acting poison for use on potatoes and tomatoes, as well as other crops. It not only kills the bugs but at the same time defends against blight. It can either be used as a spray or for dusting.

					uusung.	
1-lb.	pack	tage.	 	 		\$.60
5-1b.	pack	tage.	 	 		2.75
 25-lb.	pack	tage.	 	 		12.50

INSECTICIDES Continued

CALECII

EVERY FRUIT GROWER KNOWS AS THE GREAT SCALE KILLER

but many have not yet learned of

its greater value in the control of

FUNGOUS DISEASES

THE YEARLY APPLICATION OF "SCALECIDE" WITH FUNGICIDE

as a dormant or scale spray, either fall or early spring, will destroy the blight cankers that produce twig or fire blight.

Will stop the progress of collar rot or blight and the wounds will start to heal.

Will control all forms of scale—San Jose Scale, Lecanium or Terrapin Scale, Oyster Shell and Scurfy Scale— Pear Psylla, Leaf Roller, Bud Moth, Case-bearer, and Aphis, as well as fungous troubles controllable by a dormant spray.

In fact, do everything that any other dormant spray or combination of sprays will do, and-COSTS NO MORE

1-quart can\$.65 1-gallon can 1.60 5-gallon can 6.80

10-gallon	can												.*		•																\$11.70
30-gallon	barrel			•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•					28.85
50-gallon	barrel	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	43.00



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CORONA	DRY"
DATENT ADSENATE	OFIEAD

One pound of "Corona Dry" will do the work of three pounds of Paste Arsenate and do it better.

But economy is not everything. Efficiency is more important. What would it mean to you to have a spray mixture of standard strength and be absolutely sure that all of one spraying or of many sprayings was absolutely the same strength? Evaporation, difficulty of perfect mixing, make this impossible with a paste arsenate. You can have a standard efficiency if you use Corona Dry.

REMEMBER, "CORONA DRY" MEANS NO GUESSWORK, BUT A STANDARDIZED SPRAY IN WHICH THE MIXTURE IS ALWAYS THE SAME STRENGTH AND EFFICIENCY. e ce 25 nound neckage per nound

1-pound package, per pound\$.65 5-pound package, per pound	25-pound package, per pound
BUG DEATH kills Potato, Surash and Cucumber Bugs, and all bugs and worns that all bugs and worns that be we the leaves of plants; non- poisnous. Directions for Applying Dry: Tor potato and other vines which require a top application, oshifter at the rate of 15 to 25 pounds per acre to an applica- tion, according to size and con- ditions of the vines. 1-pound package	**BLACK LEASAGE 400" Storing Sulphate-40% Nicoting This is the insecticide that is so highly recommended by Experiment Stations. It destroys Aphis (plant is provided sucking insects-all without injury to foliace. May be combined with other strays. Highly concentrated. Sobia in water-easy to mix-does not log nozzles. You can not go wrong by ordering "Back Leaf 40" for sucking insects.
PARIS GREEN ½ pound\$.20 2-pound package\$1.15 ½ pound	PRICES: 1 oz. \$0.25makes 6 gallons spray ½ lb. 1.00 " 40 to 120 gals, spray 2 lb. 3.25 " 160 to 500 " ' '' 10 lb. 15.75 " 800 to 2500 " ' ''

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NSECTICIDES-Continued



"PYROX" Kills Insects Prevents Fungus and Diseases

Apple growers swear by **PYROX** chiefly because they find it brings better fruit and more of it. But there are other advantages that appeal to you, too.

PYROX doesn't wash off—it sticks through the heaviest storm—and you know how often fungus diseases get their start in rainy weather. **PYROX** is easy to handle—a smooth, creamy paste that's all ready to use when simply mixed with cold water. Goes further because you can spray it in a fine fog, covering the surface with a thin film of complete protection. **PYROX** saves both labor and money.

PYROX MEANS PRIZE POTATOES

Insure your potato crop against potato bugs, flea beetles and blight by spraying—in time—with PYROX, 1 pound to 5 gallons of water. Then you are safe against pest-losses. You will get bigger potatoes and more of them, too, for PYROX stimulates the plant, giving the leaves that rich, green color which means maximum starch formation. And more starch means more and heavier tubers. Nineteen years of use by this country's best potato growers have proved that, without PYROX, you can't get the greatest returns from your soil, no matter how carefully you prepare and fertilize it. PYROX is the cheapest spray to use, too—the increased yield and quality soon pay for it besides giving you a good profit.

FOR OTHER VEGETABLES.

Growers of tomatoes, sweet potatoes, eggplant, cabbage and other vegetables find that **PYROX** is as invaluable a profit-builder for them as for potato growers. And for the same reasons. **PXROX** safeguards $t' \neq$ plants against chewing insects, prevents rots and blights and nourishes the leaves—the lungs of the plant. Better crops and better-selling vegetables are the natural result.

1-pound	package\$.40
5-pound	package 1.50
10-pound	package 2.50
25-pound	package 5.75
50-pound	package
100-pound	package
300-pound	package



TREE TANGLEFOOT For protecting trees against climbing insect pests in a simple, economical and effective

For protecting trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One a p p l i c a t i o n remains sticky on the trees three months fully exposed to the weather. Easily applied with a small wooden paddle. One lb. will spread 8 feet long by 5 inches wide, 1-16 inch thick. Will stay on tree three months.

NICO-FUME

Nico-Fume is a Tobacco Paper insecticide for fumigating greenhouses. Extensively used by prominent florists. Very easy to apply. Prices: 24 sheets, 85c.; 144 sheets, \$4.00, and 288 sheets, \$7.50. Directions on each package.

NIKOTEEN

APHIS PUNK (Nikoteen)

Especially designed for use in private places and in houses without convenient furnaces for heating irons necessary for vaporizing Nikoteen or Tobacco Extract. It is very effective as an insecticide. The Punk is lighted with a match and allowed to burn, which is does without flaming, at the same time giving off dense white fumes of Nikoteen that kill aphis and thrip very effectively. Per box, 60c.; per 12 boxes, \$6.50.



TOBACCO SOAP

Sulpho-Tobacco Soap is a powerful agent for the destruction of all bugs and insects. One or two applications will rid plants of the pests. Full directions with each cake.

Destroys cabbage-, squash- and potatobugs, currant worms, lice; green-fly, mealy bug, red spider, etc. Sure death to all plant insects indoors and out-ofdoors. Of special value for spraying shrubs, fruit trees and vines.

3-oz. cake makes 1½ gallons prepared solution, 10c. Mailed, postpaid, for 13c. 8-oz. cake makes 4 gallons prepared solution, 20c. Mailed, postpaid, for 25c. 10-lb. cake makes 80 gallons prepared solution. By express, \$3.00.

TOBACCO STEMS

Indispensable for fumigating greenhouses and conservatories for the destruction of green and black aphis and other insects.

Dampen thoroughly a few hours before using, place about a half-pound over a handful of shavings in a fumigator, and light. 50-pound bale, 5c. pound.

TOBACCO DUST

For green and black aphis, fleas, beetles, etc. Splendid fertilizer and preventative for insects in the ground and around' roots. For insects on plants apply with powder duster or bellows. For worms or grubs in the soil, apply liberally to the surface and rake in, or strew thickly in the drills before planting.

Price: 5 pounds, 30c.; 20 pounds, \$1.00; 100 pounds, \$4.50.

FUMIGATORS

Made from heavy galvanized iron. In demand for fumigating greenhouses with tobacco stems and tobacco dust. If the greenhouse is larger than the capacity of one of the fumigators, one should be placed at either end of the house. Being made from heavy galvanized iron, there is not any danger from fire.

No. 2—Height, 16 inches. For a house 12x40 feet. Brice......\$3.75

No. 3—Height, 20 inches. For a house 15x100 feet. Price...... 4.50

SPRAY CALENDAR

WHAT TO SPRAY	FOR WHAT TO SPRAY	WITH WHAT TO SPRAY		VHEN TO SPRAY	REMARKS AND CAUTION
			First Spraying	Second Spraying Third Spraying	
Ap ple	Codling Moth	Arsenates in Bordeaux or ar- senate of lead 3 lbs. to 50 gals.	soms fall	7 to 10 days later 30 days later	Later spraying if m a d e should be made with diluted solutions
	San Jose Scale	Lime-Sulphur	Late in fall, late iu wiuter or early in spring		Use Lime-Sulphur only when trees are dormaut
	Scab	Bordeaux Mix- ture	Just before blos- soms opeu	Within a week Same 7 to 10 day after blossoms have later dropped.	fore blossoms open is very esseutial for
	Woolly Aphis	Kerosene Emulsion	When trees are in full leaf	In fall	scab Don't use strong emulsion when trees are in full leaf
Asparagus	Asparagus rust	Bordeaux	After cutting crop	10 days later 10 days later	Repeat 3 to 4 times. Buru rusted brush iu the fall.
Bean	Anthraenose	Bordeaux	On 2 or 3-inch plants	10 days later After blossoms	
Cabbage aud Cauliflowe r	Cahbage Worm	Pyrethrum	With first appear- ance of worms	Whenever worms Same are observed	1 oz. to 30 gals. of water
Cherry	Rot	Bordeaux	Before blossoming	After blossoming Two weeks late drop on fruit on fruit	r When fruit ls large
	Curculio	Arsenate of lead	Before hlossoming	As blossoms dry up One week later	Avoid strong solu- tions. Do not use other arsenicals than
Cueumber	Cucumber Beetle	Arsenate of lead in Bordeaux	Soon as plants ap- pear	Week later Week after second	arsenate of lead Week after (ourth
Currant	San Jose Scale	Lime-Sulpbur	As with apple	In spring as with apple	
	Worm	White Hellebore	When worms first appear	Repeat in 3 or 4 Repeat as second days	uuder side of leaves
Gooseberry	Mildew	Bordeaux	B e f o r e blossoms open		first
	Worm	White Hellebore	As on Currants		
Grape	Anthraenose Downy and Powdery Mildew and Rot	Bordeaux Bordeaux	Just before buds open Just before blos- soming	Just before blos- soming Just after fruit has set 7 to 10 days later	
Peach	Leaf Curl	Bordeaux	ln fall or spring	As buds are opcu- ing drops	
	Rot and Seab	Bordeaux	As buds are swell- ing	Just after calyxes 2 to 3 weeks later drop	Destroy all mum- mies
	Bud Moth	Arsenates in [°] Bordeaux	With opening of buds		Use only half usual amount of poison
	San Jose Scale	Lime-Sulphur	In late fall or early spring		
Pear	Seab Codling Moth	Bordeaux Arsenates in	When leaves are	After blossoms drop Same as first	
	San Jose Scale	Bordeaux Lime-Sulphur	In fall or early	Same as mot	See Apple
	Rot	Bordeaux	spring As buds are swell-	Just after calyx 3 or 4 weeks later drops	Repeat every 7 or 10 days
3	Cureulio	Arsenate of lead in Bordeaux	With starting of	Just after calyx 5 days later drops	Destroy all mum- mies
2	San Jose Scale Early Blight	Lime-Sulphur Bordeaux	In late fall or early spring When plants are 6	Two weeks later Two weeks later	Jar, gather and de- stroy eurculios and stung plums
		Soak seed in Arsenites alone or in Bordeaux	inches hìgh Corrosive sublimate When heetles or	Solution (2 oz.) In 16 gallous As for first	90 minutes Arsenate of lead, 3 lbs. to 50 gals. of water for Colorado
Quince	Fruit and Leaf Spot San Jose Scale	Bordeaux Lime-Sulphur	young appear Just before blos- soms opeu In 'late fall or	After blossoms Two weeks later Irop	Beetle alone
Raspberry and Blackberry		Bordeaux	early spring Before leaves open	Bord, on canes 6 Repeat second 1 inches high week later	Keep spray from leaves on bearing
Rose	Slag		With first appear- ance of fungus	2 or 3 weeks later Repeat if neces-	
Sterr		Bordeaux or Hellebore		Repeat if neces- sary	
Strawberry		Bordeaux	On new growth after erop	2 or 3 weeks later	
Tomato	Anthrachose	Bordeaux	Soon after fruit begins to set	Three weeks later Three weeks later	



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FICE.

DR. HESS **POULTRY AND STOCK PREPARATIONS**

PRESCRIPTIONS OF DR. HESS (M, D., D. V. S.)

DR. HESS POULTRY PAN-A-CE-A



makes poultry healthy; makes hens lay; not a stimulant, but a tonic, that tones up the dormant egg organs, brings back the scratch and cackle, and compels each hen to put her share of eggs in the market basket.

It also contains internal antiseptics that counteract disease; insures a healthy, singing poultry flock. Cost but a trifle-a penny's worth enough for 30 hens per day. 11/2 lbs., 30c.; 5 lbs., 75c.; 12 lbs., \$1.50; 25-lb. pail, \$3.00.



GUARANTEED.

DR. HESS STOCK TONIC

Formula printed on every package.

Every ingredient indorsed by the U.S. Dispensatory and other high medical authorities. It aids digestion, makes stock healthy, and expels Helps stock convert more ration worms. into milk, flesh, blood and muscle. Every pound backed by the Dr. Hess & Clark unqualified guarantee. Prices: Packages, 30c. and 60c.; 12-lb. pkg., \$1.25; 25-lb. pail, \$2.25; 100 lbs., \$7.50.



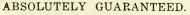


Dr. Hess Worm Powder

For Horses, Sheep, Cattle and Hogs. It is highly concentrated, and is an effective vermifuge. Dr. Hess' own prescription that proved effective in his practice. Price, 1 1/2 lbs., 50c. GUARANTEED.

Dr. Hess Healing Powder

The modern Gall Cure. Cures Galls, Cuts, Wounds, Ulcers, Grease Heel. Antiseptic and soothing. Heals everything it touches by forming a coating, cleaning and closing up wounds. Comes in sifting-top cans. Price: 4-oz., 25c.; 10-oz., 50c.



DR. HESS ROUP REMEDY

For Roup, Diphtheria, Chicken Pox and all Catarrhal Diseases. It has these distinctive features: It is antiseptic, silghtly astringent, non-irritating and healing. 4-oz. cans, 25c.; 10-oz. cans, 50c. GUARANTEED.





1.012

Instant Louse Killer

Kills Lice on Poultry, Horses, Cattle, Sheep Ticks, Bugs on Cucumber, Squash and Melon Vines; Cabbage Worms, Slugs on Rose Bushes, etc. Sold in sifting-top cans-look for the word "Instant" before buying. Price: 1 lb., 30c.; 21/2 lbs., 60c. GUARANTEED.

Dr. Hess Dip and Disinfectant

Non-poisonous and non-irritating and guaranteed to be absolutely uniform in strength at all times. One gallon of Dip makes from 70 to 100 gallons effective solution. Spray it on roosts. Sprinkle it over the runs and in all cracks and crevices. Spray it on cattle and horses. Makes a splendid dip for hogs and sheep. It's a sure parasite and disease germ destroyer. Purifies stables, troughs, sinks, drains. GUARANTEED.



1 Qt., 60c.; 1/2-Gal., \$1.00; 1 Gal., \$1.50.

Dr. Hess Fly Chaser

Drives flies away. One application lasts six hours. Prevents milk slump. Keeps cattle and horses contented during the fly season. Most humane idea of the age. Its use during summer months will insure good profits. GUARANTEED.

1 Gal., \$1.50

Dr. Hess Heave Powders

A dependable preparation for relieving horses of heaves, chronic coughs, asthma, bronchitis, etc.; with careful diet, the frequent use of this valuable preparation will afford permanent relief in the majority of cases. Price, 11/2-lb. package, 50c.



Dr. Hess Colic Remedy

A reliable preparation for the treatment of Spasmodic and Flatulent Colic, Gripes, Acute or Chronic Indigestion, Impaction of the Stomach, Bowel Inflammation, etc. Price, \$1.00. GUARANTEED.

Dr. Hess Distemper Remedy

A reliable preparation for Distemper, Acute Colds, Fever and Cough. Price, 50c. GUARANTEED.









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POULTRY REMEDIES

Conkey's Roup Remedy

Known to every poultryman. A wonderful remedy that quickly reduces the swelling and brings the bird back to normal. Given in the drinking water.

Packages, 30c., 60c., \$1.20. Sent postpaid.



Conkey's White Diarrhea Remedy

To be given to young chicks from the first drink until they are three weeks old. Aids wonderfully in preventing the development of this dread disease. Also desirable at intervals for the grown birds and especially so at mating time.

Packages, 30c. and 60c. Sent postpaid.

Conkey's Cholera Remedy

For indigestion and so-called cholera in growing and grown birds. Given in drinking water quickly overcomes the diseased, feverish condition.

Packages, 30c. & 60c. By mail, 35c. & 65c.



Worm Destroyer.

Live Stock Conditioner.

SAL-VET is a medicated salt—a safe, simple, inexpensive remedy which gives stock the medicines they need along with the solt they crave. It requires no dosing, no drenching, no starving. It goes into the stomach and intestines and loosens the leach-like hold these blood-sucking parasites have on the tender linings. It drives the robbers out—without bother or trouble to you. Your animals eat SAL-VET in place of common salt and thus doctor themselves.

PROTECT YOUR HERD AGAINST DISEASE.

Don't pay the frightful price of worm neglect. Don't wait until cholera breaks out in your neighborhood. Fortify your stock against disease. Get rid of the blood-sucking, diseasebreeding worms **now**. Put every animal on your farm in a healthy worm-free condition so they can get more good of what they eat—gain faster—make you more money.

A SINGLE WORM-INFESTED HOG IN YOUR HERD IS A CONTINUAL MENACE TO YOUR HOG PROFITS.

It is the worm-infested, half-starved animals that spread the deadly worm curse over your farm. They are diseasebreeders and disease-carriers of the worst kind. Helpless themselves to resist contagion, they let down the bars to the cholera scourge and death stalks through your herd. They are the darger spots in every herd.

15-lb. packages "Sal-Vet"at	\$1.50 each
40-lb. packages "Sal-Vet"at	3.00 each
100-lb, kegs "Sal-Vet"at	6.75 each
200-lb. barrels "Sal-Vet"at	12.00 each
200-lb. barrels "Sal-Vet"at	16.75 each

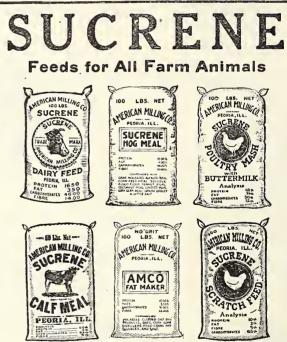


CHICK MANNA or HEALTH FOOD (For Little Chicks)

Chick Manua is one of the first foods put up especially for baby chickens. It is the best thing on the market, and should be used exclusively for the first ten days. It will save many little chickens, and will repay many times its cost. The first ten days will decide whether the chick will grow into a profitable chicken.

With Chick Manna you are sure of a prime healthy chicken, one that will pay you to raise.

			rices:		
1-pound p	package				\$.15
3-pound p	package		••••		45
5-pound p	package	• • • • • • • • • •	•••••	.	2.00
60-pound h	box bulk.				7.00
or pound a	oon bann				



These feeds have been the recognized standard grain and molasses mixed feeds for 18 years. Approved by expert feeders in State and U. S. Government service and fed continuously by thousands of leading stock raisers.

Complete Correctly Balanced Rations

Insure increased milk flow, more pork and beef per pound of feed consumed, quicker calf growth and more eggs from poultry. Saves trouble and grain.

Sold by dealers everywhere under a positive guarantee of uniform high quality.

Write us for carefully written free books and folders giving valuable information on care and feeding of live stock. Indicate in which feed you are interested.

	100 Pounds	Ton
Sucrene Dairy Feed	\$3.25	\$60.00
		\$ 85.00
Sucrene Hog Meal		90.00
Sucrene Poultry Mash		
Sucrene Calf Meal	. 5.50	
Sucrene Alfalfa Horse Feed		
(60% Grain)		
Kick-A-Poo Horse Feed	. 3.50	
(70% Oats)		



CONKEY

DALA IN DOMESTIC

Bei Weight Longace



Materials. All sizes are same price.
Prices: 10 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$2.00; 100 lbs.,
\$3.00. Special price in ton lots.

"HEN-O-LA" DRY MASH

THEIN-O-LA" DRY WASH
Is the ONLY MASH on the Market To-day That is "within Itself" a
COMPLETE BALANCED RATION FOR POULTRY.
It contains the five nutrients from wholesome sources, and in the right proportions to meet the requirements of fowls.
The Five Nutrients are protein, fat, carbo-hydrates, phosphorus and lime. We derive the first three from sound ground grains only; the last two from "Hen-e-ta." It takes 4.6 lbs. of carbo-hydrates to digest one pound of protein, and it takes about one pound of phosphate of lime (bone ash) to assimilate two pounds of protein, after the protein has been digested by the carbo-hydrates. In the absence of phosphates no assimilated food and not from digested food.
Price: \$4.50 per 100 lbs.

HOG BON

builds strong, big pigs, with large bone-frames, carrying lots of meat. The phosphoric foods in **Hog Bon** fatten and hasten maturity. Without phosphoric foods, your hogs will literally die of starvation, no matter how much protein you feed. Your first aim must be to utilize the protein fed—and you cannot accomplish this by feeding more protein. You must feed more becomeans and loss success. phosphorus and less protein. The better results obtainable through tankage in the ration

is not so much due to the little extra protein thereby supplied, but is LARGELY (if not entirely) due to the "phosphates," which all tamkage contain. But, they do not contain enough phosphates of the right kind. **Price: 100-lb. bags, \$3.25; 500-lb. lots, \$15.00.**

Granulated Milk for Poultry



For years poultrymen have been look-ing for a substitute for animal meal and beef scrap, on account of the of-fensive odor of the latter, and the un-certainty of keeping it sweet or whole-some during the warm weather. At last the desired object has been accom-plished by perfecting a process of granulating a milk product, obtained at the Milk Sugar factories of the United States States.

MILK PROTEIN MASH

This Foultry Mash is made of Granulated Milk thoroughly mixed in a well-balanced proportion with the best of grain, seeds, alfalfa, etc. It has double the value of almost any other mash food now on the market. 4 lbs., 40c.; 50 lbs., \$3.50; 100-lb. bag, \$7.00.

AND CHICK GROWER LEE'S EGG MAKER is the biggest value for the money ever

offered to the poultry raiser. Being highly concentrated, only a small amount per day is required. It must not, therefore, be compared with foods that require fully twice as much per feed and from two to three feeds per day.

25-lb. pail.....\$3.50

(IN TABLETS

101

Price: Quart. 1/2 Gallon. Gallon.

LEE'S LICE POWDER Is intended es-pecially for use insects on plants and vegetables, and for great value for household. Price, 20-ounce package.

SUCCULENTA TABLETS

SUCCULENTA TABLETS do away with all the bother, the time and labor of feeding your chickens green sprouted oats, cabbage, beets, roots and all other green food.

SAVE ONE-HALF THE COST.

Greatest discovery ever made in the poultry industry; sim-ply dissolve a tablet in the drinking water; fowls drink it with a relish.

via parcei post unec	
100 Large Tablets	\$.60
250 Large Tablets	 1.00
500 Large Tablets	

HARDING'S SUCCESSFUL ROUP CURE

For Roup, Colds, Canker, etc. One of the best remedies on the market.

Price: 25c., 50c. and \$1.00.

HARDING'S SCALY LEG CURE

A penetrating antiseptic liquid, easily and quickly applied. Harmless to feathers. An excellent leg polish for the show room. Useful in dressing flesh wounds and sores. room.

BLATCHFORD'S PIG MEAL



The safety route from pighood to porkage. All "baby" pigs should be weaned on this strengthening tissue-builder. They will grow continuously and rapidly, developing bone and size without taking on surplus fat.

100 pounds makes 100 gallons of milk-substitute.

25-pound	sacks.		•	•	•	•	•	•	•	•	•	•		•		•		•	•		•					\$1.60
50-pound	sacks.				•	•	•	•		•		•	•	•	•	•	•		•	•	•	•		•		3.00
100-pound	sacks.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	6.00

BLATCHFORD'S LAMB FOOD

A Baby Food for Baby Lambs. Because it fully substitutes the ewe's milk for motherless lambs. It carries all lambs in a thriving condition safely and rapidly from weaning time to the early market.



HIGH GRADE HEN FEED THE BALANCED RATION FOR LAYING HENS. ALL GRAIN: NO GRIT OR SHELLS.

This feed is formulated from pure, sweet grains. Only those grains are used that are of known value for producing eggs. This is the feed for the poultryman who feeds for profit. 5 lbs., 30c. 10 lbs., 50c. 100-lb. sacks, \$4.75. Special price in larger quantity.

HIGH GRADE CHICK FEED

"THE FEED THAT IS ALL FEED." ALL GRAIN; NO GRIT OR SHELLS. This feed is absolutely pure and unadulterated, containing no offal or injurious ingredients, such as rice hulls, ground straw or cobs, etc. It will not hurt or scour chicks. 5 lbs., 30c. 10 lbs., 60c. 100-lb. sacks, \$5.00.

PULLET or DEVELOPING FOOD

The demand for a food for developing young chickens has increased with the demand for young chickens for market. This food will develop a large marketable chicken in the least possible time. Just the mixture to make them grow quickly. 5 lbs., 35c. 10 lbs., 60c. 100-lb. sacks, \$5.00.

MASH FEED TO MAKE HENS LAY

This is a complete mash, containing ground grain, alfalfa meal, meat meal, and everything necessary for producing a large egg yield. Mix with hot water, and it is ready to feed. 5 lbs., 30c. 25 lbs., \$1.25. 100-lb. sacks, \$4.50.

BLACHFORD'S FILLTHE BASKET EGG MASH



PURITY PIGEON FEED

The mixture contains a great variety of grain and seeds properly balanced under the direction of a successful man who has had years of study and experience with pigeons. No grit. No shell. 1 lb., 10c. 10 lbs., 30c. Per 100-lb. sack, \$6.50.

G. & T. CO'S HIGH GRADE PURE BEEF SCRAP

50 TO 55 PER CENT. PROTEIN.

50 TO 55 PER CENT. PROTEIN. This Beef Scrap is the highest possible grade, and is made from Pure Beef Trimmings and cracklings, and has no pork or other materials to cheapen same. It is fully guaranteed as to quality and will keep indefinitely. Frice: 5 lbs., 50c. 100-lb. bag, \$6.50. 45% Scrap, 100-lb. bag, \$6.00.

ALFALFA MEAL

This is a green feed all the year round. Everyone knows that alfalfa is fast supplanting clover. It is very high in protein, and furnishes the chicks a growing food which, at the same time, has a medicinal value. 5 lbs., 25c. 50 lbs., \$1.75. Per 100-lb. sack, \$3.25.

GRANULATED CHARCOAL

A little ground charcoal mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy. We carry three sizes, one for grown fowls, one for small chicks, and pulverized. 5 lbs., 50c. 25 lbs., \$2.50. 50-lb. sack, \$4.50. 100 lbs., \$6.00.







A clean, wholesome High Protein (75 per cent, guar-anteed) Meat Product. Al-though Darling's Meat Crisps is a little higher in price than the ordinary pro-duct the gracity income duct, the greatly increased feeding value (due to the High Protein content), and High Protein content), and the clean, sweet character of this feed make it more profitable to feed. Each hen laying only one extra egg a month will more than make good the difference, and you are building a healthy, prolific flock.

AVICOL.

STOP THE LOSSES!

Authorities may differ about the causes—but they don't dif-

Authorities may after about the causes—but they don't third for about the results. When once in your hock, unless checked at once, you stand to loss heavily. AVICOL SAVES THE CHICKS—Avicol has a specific and selective action on the germs causing Cholera and White Diar-

It knocks the germs and gives the chick a chance. rhoea.



BONE MEAL FOR POULTRY.

This is exactly the same as the Cracked Bone described below, only it is ground much finer. 5 lbs., 50. 10 lbs., 75c. 50 lbs., \$3.00. 100-lb. sack. \$5.50.

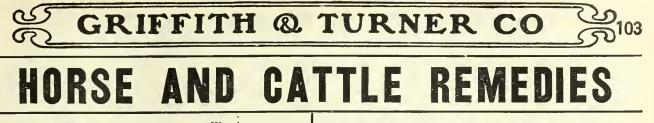
CRACKED BONE FOR POULTRY This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. No chemicals whatever are ap-plied to them in the course of manufacture. Should be fed to the poultry daily, like grain or any other feed. An excel-lent bone and egg producer, keeping the fowls strong on their legs and largely increasing their laying qualities. Especially valuable for young and growing chicks. We carry two sizes, No. 1 for grown fowls, and 2 for young chicks. 5 lbs., 50c. 10 lbs., 75c. 50 lbs., \$3.00. 100-lb. sack, \$5.50.

CRUSHED OYSTER SHELLS.

It aids digestion as well as supplying lime. Experiments have proved that hens supplied with oyster shells lay more eggs. We carry two sizes in stock, No. 2 for grown fowls, and No. 3 for young chicks. 5 lbs., 25c. 100 lbs., \$1.25. 500 lbs., \$6.00. Special prices in larger quantities.

MICA QUARTZ GRIT.

(Poultry, Pigeon and Chick Sizes.) Grit is as essential for poultry as food, as without it they cannot digest the food. Poultry will starve to death with full crop for no other reason than they have no teeth with which to grind the food into proper consistency. Grit should be mixed with the food and fed in hoppers or boxes, about one part of grit to fifteen or twenty parts of food. 5 lbs., 25c. 100-lb. sacks, \$1.25.





Watch every cow, and at the first sign and at the first sign of disorder in appe-tite, digestion or flow of milk, give a dose of **KOW-KURE**. Carefully follow the directions as given on the box, and that cow will get well.

KOW-KURE is in powder form, to be given in regular feed. It cures abor-tion, barrenness and secure saled udder scours, caked udder, removes retained afterbirth, purifies the blood, strengthens the appetite, vitalizes the nerves and prevents dis-ease. It increases ease. Prices, small size,

the milk. It is a medicine for cows only. 60c.; large size, \$1.20.

For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as **BAG BALM.** It is a soothing, penetrating ointment especially try.

AMERICAN HORSE TONIC

This tonic is a specific for horses, an actual medicine that goes to the root of all horse ailments and removes the cause of the trouble. A few doses will send a dull, listless horse on its way rejoicing.

Its' curative power is wonderful. **AMERICAN HORSE TONIC** is the best remedy known for worms, stoppage of water, all bowel complaints, inflammation of the lungs, recent founders, distemper, coughs, colds and swelling of the glands of the throat. **Small size**, **30c.**; large size......60c.

HORSE COMFORT

The Most Remarkable Remedy Ever Compounded for Healing Cuts and Open Sores of Every Kind. HORSE COMFORT is a liquid preparation which is unequaled in its power to quickly cure all kinds of open sores or abrasions of the skin. It is used by simply wetting the sore spot. No bandages or filthy rags, no rubbing or heating it in. Simply wet the spot and the cure begins. **Price, per bottle, 30c. and 60c.**

GRANGE GARGET REMEDY

This remedy has stood the test of twenty years as a successful remedy, and is indorsed by thousands of dairymen.

SAL-MEDICO

THE GUARANTEED WORM DESTROYER.

It contains medicinal properties which immediately kill and expel stomach and intestinal worms and parasites, at the same time restoring the digestive organs to a normal and healthy condition.

Start now and save Stock and Hog losses.

10-lb.	package	 \$0.80
16-lb.	pail	 1.00
100-1b.	bag	 5.00

SPRATT'S DOG REMEDIES

These remedies have been on the market for fifty years, and are sold in most every country in the world. In offering them for sale we recommend them as being the best in their line, and properly used will give satisfactory results.

We do not list but a few of the various remedies of this standard make, and if you desire any of those we do not list, we will be glad to get them for you.

Spratt's Dog Cake, the standard dog food used at the different kennels ferent kennels and dog shows throughout the world. Pri small carton, 15c.; medium carton, 35c.; large carton, 70c. Prices,

Spratt's Puppy Cake, small carton, 15c.; large carton, 35c. Spratt's Puppy Meal. cartons, 15c.

Spratto rappy mour, cartons, roo.	
Spratt's Alterative Cooling Tablets\$	60
Spratt's Anti-Vomit Tablets	6 0
Spratt's Digestive Tablets	6 0
Spratt's Diarrhoea Tablets	60
Spratt's Distemper Tablets	75
Spratt's Kair Stimulant and Restorer	6 0
Spratt's Kidney Tablets	6 0
Spratt's Liniment	6 0
Spratt's Pneumonia Tablets	60
Spratt's Purgative Tablets	60
Spratt's Worm Capsules for Puppies	6 0
Spratt's Tonic and Condition Tables for toy dogs and	
ρuppies	60
Spratt's Distemper Tablets for toy dogs and puppies	70
Spratt's Vermifuge Capsules for toy dogs and puppies	60
Spratt's Eczema and Sarcoptic Mange Remedy 2.	00
Spratt's Patent Improved Dog Soap (White), for fleas, lice, etc. It is entirely free from poison and at the	

same time most effective in the destruction of lice and .25 Per cake..... fleas.

Spratt's Patent Antiseptio Soap (Black), for veterinary .50 uses, etc. Per cake.....

DR. DANIELS' VETERINARY REMEDIES

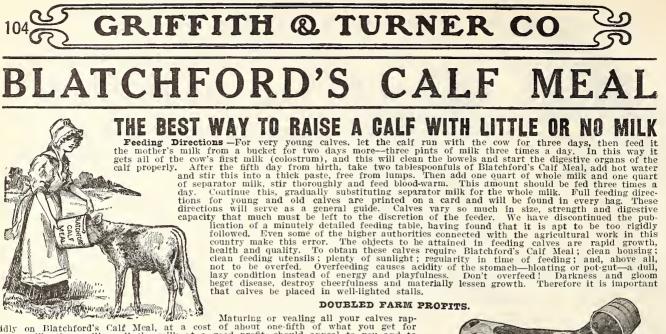
These remedies are all compounded from the best ingredi-

You can save the cost many times over by having a stock of these remedies on hand; a 60c. package will many times save a very valuable animal.

COLIC CURE\$	
OSTER COCUS LINIMENT	
WORM KILLER	
ABSORBENT BLISTER	1.25
GALL CURE	.65
RENOVATING POWDER	.65
COUGH, COLD AND FEVER DROPS	.65
WONDER WORKER LINIMENT	.65
HOOF GROWER AND SOFTENER	.65
CARBO-NEGUS DISINFECTANT	.65

DR. LESURE'S VETERINARY REMEDIES

COLIC DROPS	1.25
FEVER DROPS	1.25
COUGH AND TONIC DROPS	1.25
RENOVATOR POWDER	1.25
WORM ANNIHILATOR	.65
ELECTRIC HOOF OINTMENT	.65
ALL-HEALING BALM (LINIMENT)	.65
LESURE'S SPECIAL LINIMENT	.65
LESURE'S LINIMENT	-65
GALL REMEDY	.65
DR LESURE'S PAMILY LINIMENT	.35
ANTISEPTIC HEALING POWDER	.65



DOUBLED FARM 1 Maturing or vealing all your calves rap-indly on Blatchford's Calf Meal, at a cost of ahout one-fifth of what you get for your milk, then selling all the milk at a good profit, should appeal to you and to every wide-awake farmer as a good, profitable proposition. These profits, hoth ways, need not be guessed at; they are discernible at a glauce. Another source of profit that heretofore has been overlooked hy most farmers is the raising of the fall and winter calf on this same milk-substitute. Many farmers and dairymen have taken up winter dairying, reaping the extra hig profits on milk and cream during the winter months, but often the calf has been immediately "murdered." Calves raised during the winter give you yeal during the term of high prices and are just as easily raised then as during the summer. Fall "freshening" is greatly to he desired. With the help of the silo or an abundance of alfalfa hay the winter feeding keeps up the milk-flow and keep it up through the summer. The winter milk prices more than offset the cost. When you stop to consider that this complete milk substitute costs you less than skim milk and is far better for calf-raising—made expressly for the calf—you will get some idea of its high efficiency. It is made from several kinds of whole grains and seeds, and includes oil, sugar and albuminous compounds, pure locust-bean meal and pure flaxseed ground, with the oil left in. You cannot hegin to get the results from any other method of calf-raising that you can get from feeding Blatchford's Calf Meal, the complete milk equal.



Prices: 25-lb. bag, \$1.60; 50-lb. bag, \$3.00; 100-lb. \$6.00.

SAFE · CLEAN POWERFUL SAVES TIME



NOT A POISON LEAVES NO ODOR SAVES LABOR

DISINFECTANT--DEODORANT-----LABORATORY TESTS SHOWING THE POWER OF B-K TO KILL VARIOUS KINDS OF DISEASE GERMS.

TYPHOID TEST.—Dilution used: One part B-K to 1,500 parts water. Killed Bacillus typhosus at once. **STREPTOCOCCUS TEST.**—Dilution used: One part B-K to 700 parts water. Killed Streptococcus at once. **DYSENTERIAE TEST.**—Dilution used: One part B-K to 1,000 parts water. Killed Bacillus dysenteriae at once. **COLON BACILLUS TEST.**—Dilution used: One part B-K to 1,200 parts water. Killed Bacillus dysenteriae at once.

STRENGTH OF B-K COMPARED WITH OTHER DISINFECTANTS.

The tests below show B-K to be many times more effective than Carbolic Acid, Formalin, Cresol, etc., in the destruction of such germs as Typhoid, Streptococcus, Dysenteriae, etc., even when B-K is used much diluted. It is much stronger than Cresol which is one of the strongest of the many coal-tar derivatives, and therefore, the superiority of B-K as a disinfectant is obvious both as to efficiency in results and low cost to use. TESTS.

killed.

killed.

Organism used: B. coli.

Time of action: two minutes.



Five Gallon Carboy Shipped in Wooden Box

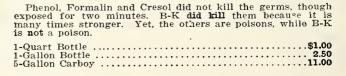


One Gal. Bottle Shipped in Wooden Box



STANDARD B-K "BULK"

One Ouart in Carton -ANTISEPTIC



B-K Dilution: 1 part to 1,800 parts water. Germs Killed. Phenol (Carholic Acid)-Dilution: 1 part to 80 parts water. Germs not killed.

Formalin-Dilution: 1 part to 125 parts water. Germs not

Cresol-Dilution: 1 part to 200 parts water. Germs not



Nurserymen and seedsmen will realize its labor and moneysaving value when they can save from rotting thousands and tens of thousands of labels, stakes and posts, likewise hotbed frames and greenhouse timber.

You can make it pay

Hundreds of dollars annually in economizing on the mainte-nance of wooden buildings and fences. Every beam, sill, joist and floor plank in your storage sheds, stables, feed and seed bins can be made to span the lifetime of at least two that are not treated. Always keep a supply on hand at the farm for odd-and-end repair work. Used once a year in poultry-houses, makes lice and mites disappear as if by magic. Try it. Proveit. **Prices, per gallon:** 1 gal., \$1.50; 5 gals., \$1.30; 10 gals., \$1.25.

because



No. 2-240 hen eggs; 240 lbs. crated, \$55.00. No. 3-hen eggs; 275 lbs. crated, \$70.00.

postpaid rie postpaid\$1.10

Universal Hover. PRAIRIE STATE UNIVERS

GRIFFITH @ TURNER CO

The sector production of the sector

IS STAIL

It may be attached to any form of outdoor brooder, two feet or more in height, to any size or form of colony house, shed, coop, piano, dry goods or organ box. It also enables those who wish to build their own brooders to get the best brooding device pos-sible in an economical manner. It fills that want, felt by everyone who raises poultry, for something they can use anywhere, any time, and do the work well. The hover is twenty-two inches in diameter, the top of which is wood, lined with strawboard, a 4-inch rim extending downward, to which is attached six inches of felt curtains. The hover stands on three iron feet, but is not stationary, and may be raised and moved instantly, if desired. A thermometer is provided, which may be read from the outside without disturb-ing any part of the brooder. It may be attached to any form of outdoor brooder, two feet or more in height

UNIVERSAL HOVER. -Price for hover, with lamp case, smoke conductors, lamp

and thermometer, \$8.00. When used indoors alone, lamp case and smoke conductors are not required. Hover and lamp, \$7.00.

Hover regulator, \$1.00 extra.

THE PRAIRIE STATE JR. PORTABLE

The **Prairie State Portable Hover** embraces in principle and construction all those original and successful features which at once established the high reputation of the Prairie State Universal Hover. It is a Universal Hover so modified as to bring the lamp case to the floor level without sacrificing safety, cconomy of oil consumption, or ventilation, and involving attached lamp case and all-steel construction. It is a Portable Hover built along lines different from all others. Contrary to general practice in building Portable Hovers

Prairie State Jr. Portable Hover, 60 to 100-chick size..., \$10.00

THE COMBINATION COLONY BROODERS

This Brooder House is constructed of tongued and grooved boards. The brooder is full size in all dimensions, 3 feet wide, 6 feet long and 3 feet high in front and 2 feet in rear, with tin roof. The interior is di-vided by a movable partition into two compartments—the nursery room and the exercising room or sun parlor. The nursery is double walled, top and sides, with dead-air space and paper insulation. A strong point in the nursery is the circular hover without obstructions of any kind, such as hot drums or domes, leaving every inch of inside space available for the chicks. It is open all around. No cold corners or hot spots to crowd into. A glass door in front, 22 in-ches wide, furnishes light and access to the chicks. A movable board under the door brings the opening level with the floor of nursery and permits easy cleaning of the apartment.

No. 2-208 pounds......\$30.00

PRAIRIE THE STATE STOVE

<text>

GRIFFITH @ TURNER CO

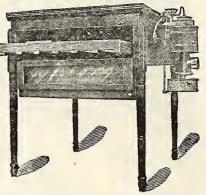
QUEEN INCUBATORS STOP HATCHING WEAK CHICKS

WITH CHEAP **INCUBATORS!**

A **Queen** costs but little more, and the extra chicks that live and grow soon pay the difference. Remember, it is not how many chicks you HATCH that counts, but how many you RAISE. Chicks that hatch out weak and wobbly, and live but a few days,

mean nothing to you but trouble and loss. They make one sick of the poultry business.

Most of the chicks you lose in the first few weeks die because they did not have, when hatched, enough strength or vitality for a good start. **Queen Incubators** are famous the country over for big hatches of strong, healthy chicks that live and grow grow.



No. 3 Queen-180-Egg Capacity

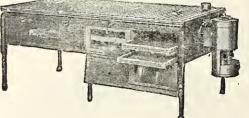
PROPER INSULATION

The Queen is doubly insulated. First we use double walls of California Redwood, forming a dead air space. Second, corrugated strawboard is used between the wooden walls. Proper insulation adds considerable expense to the manufacturing cost. However, it it an absolute requirement of a good Incubator.

OUEEN HOT WATER HEATING

The **Queen System** of hot water heating prevents the drying-out tendencies found in hot air incubators and provides a soft, uniform heat over every part of the egg chamber—a heat that is

most natural for the hatching eggs. The circu-lation of water through the radiator prevents any moisture being added or taken away from the eggs. When it becomes necessary to remove the lamp, the hot water circulating through the radiator maintains an even heat within the egg chamber without the slightest variation.





BUILT OF CALIFORNIA REDWOOD

The **Queen** is the only Incubator that carries out the double redwood wall con-struction all around, and provides a double wall front, in the way of two separate doors. The outer door is a solid panel of Redwood that is hinged entirely inde-pendent of the inner door and is fastened with a sash lock that draws it tight, thus making the loss of heat impossible.

The inner door is also of redwood construction, containing a panel of glass the full length and height of the egg chamber.

Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, retain the odors, to weaken and kill the hatching chick.

Queen Incubators are not cheap, but they are cheap in the long run. They be turning out good hatches years after the cheap machines have been junked. They will

The Queen line has all copper heater and pipes. .

SIZES AND PRICES

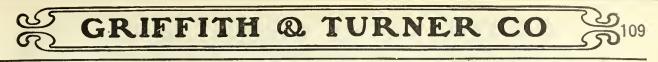
No. 0 Lincoln- 60-egg size				
No. 0 Lincoln-135-egg size. 27.50 No. 1 Queen-135-egg size. 27.50 No. 2 Queen-185-egg size. 27.50 No. 20 Style K-10-egg size. 16.50 No. 21 Style K-10-egg size. 27.50 No. 22 Style K-20-egg size. 27.50 No. 22 Style K-20-egg size. 27.50 No. 22 Style K-220-egg size. 27.50 No. 25 Queen-350-egg size. 22.50	No. B Lincoln-135- No. C Lincoln-160- No. 20 Style K-70- No. 21 Style K-130-	egg size	0 No. 2 Queen 135-egg size	32.50 42.50 52.50

ASE FOR FREE CATALOG



No. 1 Baby Queen-85-Egg Capacity







UEEN BROODERS

The Queen Colony Brooder is a new and improved design of brooder stove. It is made of highest quality iron castings that will wcar and last indefinitely. There are no drafts on the smoke pipe of the Queen. The check rests on top

is made of highest quality iron castings that will wear and last indefinitely. There are no drafts on the smoke pipe of the **Queen**. The check rests on top of the stove and opens outward when fire is too warm, thus giving a gentle in-flow of air to retard the heat. While the opening of the draft to increase the fire is located at the top of the stove, it opens into the fire at the base through an opening extending down the side to the bottom. This feeds the draft into the fire from underneath with no opening below the hover. As will be seen from the illustration, the check and draft lids are cast together and operated together. Thus, when the fire is too hot, the wafer expands and closes the draft and opens the check, both at the same time. When it is too cool the wafer contracts and closes the check and opens the draft. This keeps an even heat all the time, both night and day, in cold weather or warm, and does it automatically. You don't have to pay any attention to it whatsoever. Just set the regulator for the proper temperature at the start of the season—it will do the rest. will do the rest.

SUPERIOR QUEEN GRATE

The grate in the Queen stove is the rocker type and strikes the fire at four points. This is far superior to any draw center or shaker grate, because it cleans the fire thoroughly, and by striking at four points will break up and remove all noints clinkers.

COLLAPSIBLE HOVER

The hover used on **Queen** stoves is collapsible and made of four pieces of gal-vanized iron. This hover comes knocked down, with holes punched and stove bolts attached, ready for putting together. By being collapsible, it enables you to save room when storing, and lessens the danger of damage, when not in use.

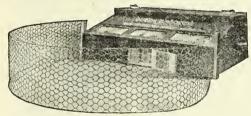
bolts attached, item, item, and lessens the danger of damage, when storing, and lessens the danger of damage, when store **BURNS ANY KIND OF FUEL** The **Queen** stove burns any kind of fuel with equally satisfactory results. We recommend chestnut sizes in all kinds of fuel and hard or soft coal, coke, charcoal, or briquettes burn equally well. Of course, hard coal will not cause the pipe to become dirty as quickly as the others, but it will give no better heat. No. 1-600-Chick Size, \$19.75 No. 2-1200-Chick Size, \$24.75

OUEEN INDOOR LAMP-HEATED BROODER | OUEEN OUTDOOR LAMP-HEATED BROODER

the

Queen Indoor Brooders are made of the same selected, h i g h-grade lumber that is used to construct

outdoor brooders, and painted with two coats of paint.



One-inch lum-

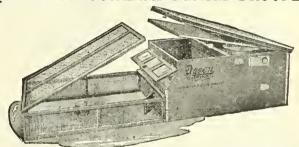
Coats of paint. One-inch lum-ber is used throughout, corner joints and floor edges are mor-tised and lock nailed. The floor is tongued and grooved and driven up, being held rigidly in place by the framework which forms a band around the floor. The lamp is encased in a sheet iron box directly under the heater drum. The heat from the lamp enters into the tight drum, from which it is distributed through the radiating sur-face into the brooding chamber. The escape pipes, protected by a windshield on the outside, to prevent the gases and air being blown back into the brooder. The floor within the brooder slopes slightly upward from the front, the highest part of the slope coming under the heat-ing drum. In this way fresh air is provided from the lamp, which is in a separate compartment and does not rob the brooder chambers of the fresh air needed for the chicks. The floor space is divided into two compartments like in outdoor lamp-heated brooder, partitioned off by a heavy felt slitted curtain, which is removable, therefore allowing the chicks to select their own temperature. Two doors are pro-vided at the top, one of which is glass, in order to admit light. Opening these doors makes easy the way to thoroughly clean the brooder. clean the brooder.

The brought size, shipping weight, 65 lbs..... \$19.008—165-chick size, shipping weight, 78 lbs..... \$10.009—250-chick size, shipping weight, 80 lbs..... \$23.00No. No. No

WATER GLASS

WAIER GLASS Put up expressly for packing away eggs, when they are plentiful and cheap. During the summer months especially eggs are much cheaper than they are in the winter time. With this preparation you can pack them away, and have a supply of fresh eggs all winter. One gallon of this solution is sufficient to mix with enough water to pack away fifty dozen eggs. Use 1 part Water Glass to 9 parts of water. At a cost of only one cent a dozen, you will be able to save anywhere from fifteen to thirty cents on the dozen, and have the satisfaction of having your own eggs.

							E										
1-quart	can	 			 								 			\$.35	
1-gallon	can															1.00	F
5-gallon	can						÷	•								4.00	



Queen Outdoor Lamp-Heated Brooders are designed to raise the chicks in all kinds of weather at any time of the year with insurance for success. They can be relied upon to give the little chicks the protection they need both day and night. The Brooder is constructed of one-inch, high-grade, thor-oughly seasoned lumber with mortised corners that are bound with galvanized iron and covered with two coats of paint. The heating system gives an abundance of heat, while the ventila-tion system provides an abundance of good, fresh air. All the gases and fumes from the lamp are discharged from the drum through pipes to the outside of the brooder, the outlets being provided with wind guards. All parts of the heater are made of heavily galvanized steel and can be removed, without tools, to be cleaned. to be cleaned.

to be cleaned. The brooder has two floors of tongued and grooved material. Under the heating drum the floor is cut away and a galvanized pan substituted which can be filled with earth or sand and, being removable, is easily cleaned. The upper floor is divided into two compartments, the brooding room and the sun parlor, and is divided by a heavy felt curtain slit so that the chicks can easily pass through. The sun room is lighted with panels of glass, set in a hinged frame, so that in bad weather a place in which the chicks can exercise, eat, and scratch in safety is assured. is assured.

No.	10—125-chick	size,	shipping	weight,	131	lbs, \$29.00
No.	11-165-chick	size.	shipping	weight.	141	lbs 31.50
	12-250-chick					

KEROSENE OIL FOR INCUBATORS AND BROODERS

One of the most difficult things for a poultryman to secure is a good grade of oil to use in incubators and brooders. We have had so many complaints from this cause that we have deemed it expedient to put up a high-grade oil to assist them in this trouble. You will not be able to appreciate the difference till you have tried a can of this oil. Put up in five gallon shipping cans.

Price

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

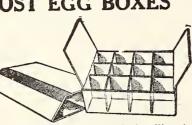
\$2.50

EXPRESS AND PARCEL POST PACKAGES

GRIFFITH @ TURNER CO

PARCEL POST EGG BOXES

Eggs need protection. This shipping package is so constructed that the eggs are separated by a thickness of cor-rugated board and the entire contents are sur-rounded by a double wall of air-cushioned corrugated board. Abso-lute protection is there-fore assured, as the box fore assured, as the box



fore assured, as the box possesses sufficient strength and durability to stand the usual rough handling in transit. Their extreme light weight, when compared with other packages, will, in many cases, save the postage for an extra pound. Fold flat for shipment. Eggs—For shipment in zones each Egg must be wrapped with cotton, excelsior, newspapers, tissue paper or material of a similar nature when shipped in our boxes and box so wrapped that noth-ing can escape from the package. Any commercial wrapping paper is acceptable. Eggs—For LOCAL DELIVERY our boxes are all right without

additional wrapping inside or outside.

Boxes holding 1 doz		z.
Boxes holding 2 doz	1.80 do	z.
Boxes holding 3 doz	2.25 do	z.
Boxes holding 4 doz		z.
Boxes holding 5 doz	3.60 do	Z

Diamond Safe Delivery Egg Carrier



A BROKEN EGG IS WASTED EGG THAT SOME-BODY MUST PAY FOR.

An egg saved from breakage is as valuable as another egg produced.

The producer cannot afford to lose the value of broken eggsand the consumer cannot afford

to pay for broken eggs. Each egg is wrapped in tissue furnished with each **Diamond** Egg Carrier—then placed in the die cut compartments as above.



Postmasters, Producers and Con-sumers have given the **Diamond Safe Delivery Egg Carrier** every possible test and find it perfectly designed for the protection of eggs in transit in transit.

In transit. The package is thoroughly rigid and will stand all the strains and handling of transit not only once, but the same **Diamond Egg Carrier** can be used over and over again for months.

without a crack—more than half-way around the world by ship and rail in a Diamond Safe Delivery Egg Carrier. If you were to cut away a portion of a packed Diamond Egg Carrier you would find each egg suspended and protected on every side—cushioned against jars and rough handling.

HATCHING SIZES Per Dozen Size \$3.00 4.80 4.40 7.75 50 egg size..... 100 egg size 3.25 Duck 4.00 Goose PARCEL POST BOXES Dozen \$2.90 Box 1 doz. size..... 2 doz. size.... Size 4.20 5.45 7.00 8.45 9.50 £ 11.80



The Anderson Egg Box is made of corrugated paper and has The Anderson Egg Box is made of corrugated paper and has double-faced corrugated paper partitions like the Eyrie, to protect each individual egg. The ability of the Anderson Egg Box to fold flat enables us to ship them in a knocked down condition, third-class freight. They take but little room in storage and are very easy to set up. By sealing the box with gummed strips which we furnish, pilfering or substitution of common eggs for fancy eggs while in transit is eliminated.

PRICES.	
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					Per De	
1	Setting		10 lbs.	per doz	No. 3,	\$2.50
- 2	Setting		13 lbs.	per doz	No. 4,	3.50
50	Egg Size		24 lbs.	per doz		4.50
					No. 6,	
\mathbf{T}	his box r	nay be use	d either	Parcel Post	within weight	limit
	Express.					
TI	se string	instead of	sealing	strips for F	arcel Post	

THE SEFTON LIVE CHICK BOX Shipped Crated to Save Freight. Per Dozen. 25 Chicks Size 12x 6x5 \$2 50

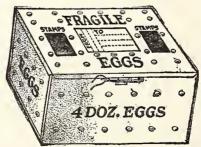
50	Chicks.	Size,	12x12x5. 24x12x5.	• • • • •	••••	 •••••	3.50 5.00	

BOXES FOR FRESH EGGS FOR THE MARKET TRADE

This is not a Parcel Post or Express Box, but is intended for counter and private use. Any one selling eggs will find this hox a great convenience, as it obviates any mistakes in the count and also avoids any hreakage.

Delaware Egg Boxes, two rows for 12 eggs, per 100.....\$1.50 Eagle Egg Boxes, three rows for 12 eggs, per 100..... 1.20

METAL EGG CRATES FOR PARCEL POST

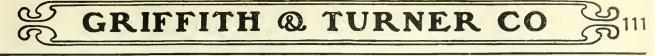


Solve the problem of shipping eggs safely by Parcel Post. They are made for continued use, being strongly constructed but light in weight.

All crates are provided with built-in shock absorbers to -give a cushion for the eggs. Fillers to hold the eggs are made for long life.

Metal Egg Crates do not require outside wrapping for mail-ing. A short string only is needed for tying "pin" which holds lid securely closed. Buy your eggs direct from the producer, "strictly fresh," delivered to your door by Parcel Post. The total cost, includ-ing postage, will be less than from your grocer. This "Safety First" egg carrier will pay for itself in a few shipments by eliminating the loss in breakage so frequent when shipped in the short-life paper cartons. It will prove itself to be a profitable investment. Postage is no more than for other egg carriers.

ιc	DOTT CO												
	Postag	e is	no mo	ore tha	in fo	r otr	ier e	egg	carri	ers.			8 90
2	Postag Dozen	Egg	Size.			• • • •	• • • •	• • • •	• • • • •	•••	•••	•••	
	Deman	Terre	Sizo										
•	Desta	There	Cizo										. 2.00
0	T	Thereac	and	aantai	ner 1	or i	-108	i. BI	ntter.	. et	C		
5	Dozen	Eggs	and	contai	ner f	or 3	1/2]	lbs.	Butt	er,	etc	• • •	. 1.60



BANNER ROOT CUTTERS ECONOMY OATS SPROUTER No. 7



Banner I.o. 7

EXCLUSIVELY FOR POULTRY

EXCLUSIVELY FOR POULTRY It cuts fast and is easy running. Leaves the feed in fine brittle, rib-bon-like strips that make choking impossible. Fowls large or small can safely eat the feed. The knives are adjustable and made of the very best of steel. An iron grate in bottom of hopper lets dirt and gravel escape before reaching the knives. In this cutter we offer the poultrymen a low-priced, high-grade, nicely-finished and mechanically constructed machine, and feel that anyone who desires to feed Roots and Vegetables to their flocks can well afford to own one. Two to five minutes will cut enough feed for a large flock of birds. **Price**, §6.50.

BANNER No. 28

A New Root Cutter. A Shredder. Using the Patent Banner Knife. For Poul-trymen, for Sheepmen, for Stockmen.

Trymen, for Sheepmen, for Stockmen.
A Root Cutter that cuts all roots and vegetables like Beets, Carrots, Fotatoes, Onions, Apples, Turnips, Cabbage or anything else of the same nature into ribbons, literally shredding the material into feed cut so fine that all stock and power use, and furnished with a crank so it can be used by hand also. This cutter has a large capacity, is supplied with eight steel knives. It has a heavy cast iron Platter Wheel, 28 inches in diameter to which the knives are attached by bolts. The hopper is such shape that the machine feeds itself and the roots cannot possibly get away from the knives until they are all cut. A grate in the bottom of the hopper allows the dirt to escape before going to the knives. This cutter is designed more particularly for power use for the large Poultrymen and Sheepmen.
Weight of machine complete, 150 pounds. Capacity of hopper about 2½ bushels. Speed by power 125 to 150 Rev. Price, Complete, with Fulley and Crank, \$20.00



BANNER No. 16 A GRAND MACHINE FOR HAND AND POWER USE-Supplied with crank also for hand use. Capacity by hand, 30 to 50 bushels per hour. Weight, 150 lbs. Capacity by power, 2 to 3 bushels per minute. Our Retail Price, \$20.00. No. 35-BANNER ROOT CUTTER.

Heavy construction for hand or power, weight, complete, 185 pounds; capacity of hopper about 3 bushels. This is a cylinder type cutter and is made strong to stand power. The hopper is large and deep. The Cutting Drum to which the knives are attached is strong and will not break or wear out. It is positive feed as the roots lay on top of the Cutting Drum. It has 30 gouge-shaped knives.

...\$22.50 Price, complete, with Pulley and Crank ...

NEW BANNER "30" ROOT CUTTER Turns easily by hand. At 60 revolutions, the knives hit and cut the roots 1800 times. The result being at a low estimate 1% to 2 bushels per minute of cut feed. Cut feed left in long half round slices that has made the **Banner Root Cutter** a pecular machine for this work for 20 years. Tright 175 to 190 lbs. **Price**, \$27.50.

Its use means sure increase in your pro-duction of eggs.

SPRING FOOD CONDITIONS SECURED IN MIDWINTER.

The feeding of sprouted oats is no longer The feeding of sprouted oats is no longer an experiment. Experience has proven time and again its value as a food for stimulating egg production. Oats sprouted in the right manner, furnish food most nearly akin to the fresh, green growth of Springtime, the prolific laying time of the year. By feeding sprouted oats through the winter, egg production can be kept up to a much larger degree than otherwise.

THE ECONOMY OATS SPROUTER em-ploys the natural process for sprouting. It has a natural drainage, and is effective duction from your chickens. Get and use an ECONOMY OAT SPROUTER, and you will increase your production many per cent. Contains five Sprouting Pans and one Drip Pan 16x17 inches. Will not rust. Lasts a lifetime.

No Inches Price, each..... \$5.50

The Norwich Automatic Exerciser and Feeder

The machine consists of a hopper of sufficient size to carry a week's supply of grain for a flock of corresponding number. Has adjusting valve feed working in conjunction with an agitator disc.

The Feeder is operated by the birds, the feed being deflected in a circle some distance from the feeder keeps the birds in constant exercise.

Being mounted on legs, it can be used either in the house or out of doors. No. 1- 8-at, hopper, 13 lbs., \$3.00

No. 2-14-qt. hopper, 15 lbs., 3.90

No. 3-20-qt. hopper, 20 lbs., 4.90



Coates Automatic Feeder and Exerciser

Insures Larger Profit to Poultrymen.

These feeders are made of galvanized iron, and will last a lifetime. They are perfectly constructed, and never fail to give satisfaction. Rats and mice can-not get at the food in these feeders. They require no floor space, being sus-pended from the ceiling. Hens eat from all sides. Exercise means larger egg production, and at the same time keeps flock healthy.

o. 2—Cylinder-shaped, for hens, capacity 10 qts.....\$2.00 No. 2-

No. Square-shaped, for hens, capacity 20 qts.





Price, each.....\$1.25

 GRIFFITH @ TURNER CO.

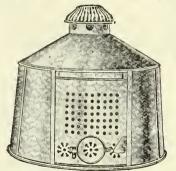


It is made entirely of galvanized material, will not rust and is proof against all chick enemies. The body of coop is made from strong 28 gauge galvanized steel, the wire park is made from heavy $\frac{1}{2}$ -inch mesh galvanized wire screen.

The Lawn Park is large and roomy, being 18 inches wide, $19\frac{1}{2}$ inches high and 24 inches long, with park closed and 48 inches long with park extended.

Gives absolute protection to chicks, permits chicks to grow and thrive nature's way.

ROUND AND SQUARE COOPS



The Bottom is entirely separate from the top. It is raised up just inside the edge around which the top rests. Thus water cannot beat in. It can be removed, washed clean and replaced quickly and easily. The Ventilator on the top can be opened wide, or only partly, as desired. The Door lifts up, and when wide open the Lock falls into place to hold it securely open. The little round Chick Door gives runway for the chicks, and when closed absolutely excludes rats.

SQUARE DROP BOTTOM DRINKING FOUNTAIN



This fountain is easy to clean and fill; keeps water fresh and cool at all times, and was designed to provide the poultryman with a labor-saving wall fountain that could be opened for filling and cleaning.

To find the fountain the bottom is unlocked and swung back, the reservoir is inverted, filled and swung back into place, and is ready to hang on the wall. A neat handle is provided for carrying; the guard prevents the chickens from soiling the water.

The basin is hinged to the reservoir at the back, and the pin of the hinge is brass, which prevents rust. Made in three sizes.

2-quart.	•	•	•		•	•	•				•									•	•	•		•		\$.90
4-quart.	•	٠	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	1.30
8-quart.		•	•	•		•	•	•	•	•	,	•		•	•	•			,	,			•	•		1.60

CAPONIZING TOOLS



You can do your own caponizing easily with this set of tools. Each tool is made for this especial work, and are of the highest grade. These sets are packed in a neat wooden box.

Philadelphia Set Farmer's Set

LANSDOWNE POULTY MARKER



This poultry marker makes the hole without the least exertion. It is made of high-grade steel, nickel-plated. Large or small size, 25c.



ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.



WILSON No. 0 FAMILY GRIST MILL This mill is especially made for



grinding Graham Flour or Cornmeal; can be adjusted for cracking grain if desired. Weight, 30 1bs. Price, \$6.75. With Iron Stand, Price, \$9.75. Weight, 65 lbs.; diameter of hand wheel. 20 inches.

WILSON No. 1 BONE AND SHELL MILL

No. 1-Grinds oyster or clam shells and dried bones, and is an excellent mill and largely used. Will also grind corn.

Weight, without stand, 33 lbs.\$6.75 Weight, with stand, 64 lbs... 9.75

MANN'S GREEN BONE LATEST MODEL.

LATEST MODEL. The feed is both automatic and self-governing: Cuts all gristle and meat. Nothing escapes uncut. No. 5C.—This machine is ex-actly the same as the No. 5B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5B. Weight, 35 lbs..\$11.00 No. 5B.—This machine is ex-actly the same as the No. 5BM, except that it has not the iron stand. The capacity is the same. Weight, 60 lbs.......\$14.50

Ko. 5BM.
 Diameter of pulley, 15 inches; 3½-inch face; speed of pulley, 300 to 350 revolutions per minute. Capacity, 100 lbs. and upward per hour. \$46.00.

Red Chief UISVIL



Grinding Mills .\$4.00

5.00

Clamps to box. **Price..... No. 10**—With feed gauge, fly wheel and handsome stand to screw on table. 7.00 Price 8.50

No. 12—Best Hand Mill on Earth; bronze boxes, steel axle, large fly wheel. **Price..... 14.00**

No. 15-Power Mill for one-horse engine: strong, durable and easy running. Price. . 14.00

No. 20 Red Chief Grinding Mill COMBINED HAND AND POWER MILL.



No. 20



BLACK HAWK FEED AND GRIST MILL

Just the thing for cracking corn, etc., for poultry. Makes best Graham flour and meal for table use.

Grinds corn, wheat, rye, rice, spices, etc. Weight, 17 pounds. Price....\$4.00

Humphrey Green Bone and Vegetable Cutter

The knives of the Hum-phrey Cutter act upon the shear principle, producing granulated cutting. No. 2½ is the same machine as No. 2, with the addition of a hand wheel, making it both a hand and power machine machine.

No. 1-Hand Power...\$18.50 No. 2-Semi-Power .. 22.00 No. 2½-Hand and

Power 25.00 No. 6-Direct Power.. 30.00

POULTRYMAN'S **CLOVER CUTTER**



Designed for cutting, either green or dry, such growths as clover, alfalfa, vegetable tops, etc. These growths are the cheapest and most productive egg-forming poultry foods for cold weather.

With four 7-in. knives, weight K. D., 60 lbs...\$16.00

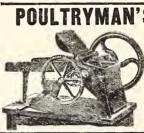
"Black Hawk" **Corn Sheller**

Weight, 14 lbs. Shells Fast, Clean and Easily.

Black Hawk is simple, easily adjusted and will shell clean all kinds of field corn.

Our Special Price, each, \$3.50.

LAXGIAUDUAUWIA CORN SHIELLER



ward per hour. \$46.00.



vegetables in

successfully

either tin cans or quart

glass jars. The boiler will hold 24 thn cans or 14 Mason quart jars at one loading. The work can he done on an ordinary cook stove or range. With every holler is sent a complete set of instructions and recipes for putting up the ordinary fruits and vegetables. These are the regular can-ning factory recipes. The instructions are so

The instructions are so

a put up canned goods in as good shaps as the fin-est equipped factory.

The complete outfit con-sists of boiler, steam gauge, safety valve and crate. Weight, 80 lbs. For

Will

fruits and

glass jars.



persons preferring to use Home Canning Boiler, \$22.00 fit can be furnished at an extra cost of \$18.00, and consists of gaso-line blast furnace, two-round capping irons and two tipping coppers.

"EI Flo" Safety No. 16 Canner has been the choice with the Government Home Demonstration Agents for several years. It is, as shown in photograph, very compact and neatly constructed. Is es-pecially convenient in moving from one canning club to another, be-ing easily carried in car or buggy. Also popular among many small families, and while it is our smallest capacity outdoor canner, the results are just as satisfactory as that of any outfit that we make. The "El-Flo" Safety No. 16 Capacity at each filling, 16 No. 3 Cans or 8 Jars. Daily Capacity, 160 to 275 No. 3 Cans of average fruits or vegetables. The Outfit includes the following accessories: One Reversible Capping and Tipping Steel, one Safety Tray, two Tray Lifters, Tongs, Acid Brush, Close Fitting Cover, 2 Joints of Piping, I Elbow, 4 Legs, and "El-Flo" Processing and Instruction Book. Height 20-in, Width 10-in, Length, 18-in. Finished in Aluminum. Weight, fully complete, 35 pounds. No. 16 "El-Flo" Safety Canner, Complete, \$12.00.



Price includes Cap and is f. o. b. Baltimore.

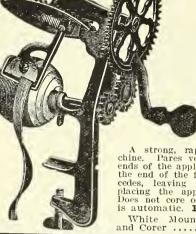
Horse Radish Grater



This Grater is de-signed for hand power only. Is constructed of wood, excepting Grating Drum, the iron bolted together over which our Patent Double Grating Drum is riveted. The Horse Radish which is grated in this machine is light, short and flaky, not like the Horse Radish which is put through a meat

Horse Radish which is put through a meat chopper. Besides horse radish this machine will grate equally as well the following: Cocoanut, Potatoes, Bread, Turnips, Car-rots and vegetables of all kinds.

PRICE, \$30.00.



A strong, rapid durable ma-chine. Pares very close at hoth ends of the apple. When passing ends of the apple. When passing the end of the fork the knife re-cedes, leaving ample room for placing the apple on the fork. Does not core or slice. Push-off is automatic. **Price**, each.**\$1.25** White Mountain Parer and Corer**1.00**

1898

TURN-

TABLE

APPLE

PARER

COOK STOVE FRUIT DRI



To meet the demand for a small Drier, suitable for use on any ordinary room, kitchen, cook or gasoline stove, we offer the U.S. It is a very simple, Drier. economical, efficient and convenient arrangement, and for farmers use just what is wanted, a durable drier at a reasonable price.

Thousands of housekeepers will have frequent use for just such an article as this,

dried truit, berries and vegetables for their own use or for sale. It is the most satisfactory and profitable investment you could make. A lady can easily lift it off the stove as it weighs but about twenty pounds. It has interchangeable galvanized wire-cloth trays which will not rust or discolor the fruit, etc., and will last for years. It is made from iron, except tray frames and supports. Its c-pacity is ample for domestic use, being greater than some machines which sell for \$15 to \$20.

Dimensions, 26 in. high, and takes up space on stove, 21×15 inches.



Sliding Kraut Cutter With Two, Three or Four Knives.

These Kraut Cutters are constructed on the same principle, but are a decided improvement on the old style machine. Each knife is independent of the other and can be quickly adjusted to gut fine or construct

and can be quickly adjusted to cut fine or coarse	at will
In the old style kraut cutters the knives could	I ra rola
be adjusted just right, and if they were, they p	rarery
be adjusted just right, and if they were, they n	robably
The set to stay. These Cutters are made of heav	whord.
wood and are fitted with a hardwood box which	Jinara
and are never with a hardwood box which	runs in
grooves, Knile perfect, being controlled with	1/ -inch
round-head stove bolts.	/4 111011
ound nead stove boils.	
No. 50-2 KNIVES, 8x26 inches.	\$2.00
No. 55-3 KNIVES, 8x26 inches.	
THO. 35-3 KINIVES, 8x26 inches	2.50
No. 65-3 KNIVES 9x30 inches	4.00

GRIFFITH @ TURNER CO

THE UNIVERSAL MEAT **CHOPPER**



The Universal is the most perfect meat chopper on the market. The feed screw is so constructed that it feeds the meat to the knives without mashing it. The knives work against the plate giving a good clean cut, producing the best grade of chopped meat. The grinders are made in three numbers. The No. 331 has a plate that fastens to the table, as shown in illustration. The No. 333 has an arm that clamps to the table, similar to the No. 1 shown below. The No. 304 has a plate like the No. 331. These grinders are all heavily tinned and will not rust. The Universal is the most perfect

	No.	331			•	 •	• •	•	• •	•	 •	•	\$	\$5.00
	No.	333										•	• •	5.50
مسطوا	No.	304								• •			••	8.00
for No	s. 33	31 ai	nd	33	3									1.00

THE UNIVERSAL FOOD **CHOPPER**

These two choppers are made especially for the kitchen, they will save many dollars by grinding up what ordinarily is wasted. The many uses that it can be put to makes it an indispensable kitchen utensil. These choppers are nicely made and will last a lifetime.

Chops all kinds of meat, raw or cooked, and all kinds of fruits and vegetables—in fact, everything that is ordinarily chopped in a chopping bowl—into clean-cut, uniform pieces, fine or coarse, as wanted, without squeezing or mashing, and with great rapidity.

65					Family,	
	6					
No. 0 and	No. 1.	140.	1	•••••	••••••	2.00

KEYSTONE FOOD CHOPPER



T (IL)









The Keystone Food Chopper is a wonder. It will do every class of work. The illustration showing the numerous cutting knives, will give you some idea as to the adaptability to every kind of work. It will grind every thing that any other grinder will, that is made for similar work. Pulverizing sugar, grinding crackers, bread, nuts, vegetables of all kinds, meats, raw or cooked and all kinds of fruits. fruits.

Does not mash or squeeze out the juices, but delivers clean-cut uniform pieces.

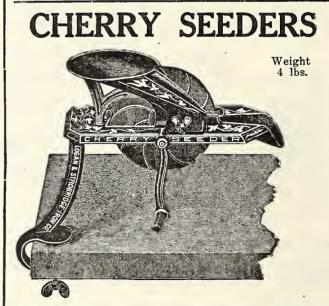
UNIVERSAL ALL STEEL LARD AND FRUIT PRESS AND SAUSAGE STUFFER

This machine is made of steel and is by far the most durable press on the market. The construction is so that it comes apart and can be easily cleaned, you do not have to handle the whole machine. It and the bar of hard to handle the whole machine. It is easily and quickly changed from a lard press to a sausage stuffer. Also easily changed to a fruit or berry press. All attach-ments come with it. This Machine is an unex-celled Lard Press, an equ-ally good Saus-age Stuffer, and is also exten-sively used for pressing the

sively used for pressing the juices from fruit for mak-ing jelly, etc. The "Universal Steel Press" has many ad-vantages over the old style cast-iron press.

able, rigid and strong, and is more easily handled because it is lighter.

No.	44-4	quarts\$13.25
No.	666	quarts 15.00
No.	88-8	quarts 16.00



These cherry seeders are so constructed that they can be ad-justed for different size cherries. They work very rapidly and do-

Justed for different size cherries. They work very rapidly and up not tear up the fruit. The No. 2 Seeder is made as shown in the illustration, having a long clamp arm that attaches to the table by means of a clamp screw. This arrangement gives ample room to place a dish under the seeder to receive the seeded cherries, as there is nothing in the way is a set of the seeded cherries.

the way. The No. 1 Seeder has four legs which screw to the table. Some users prefer this type. We can hardly conceive of a person sitting down and seeding cherries by haud when they could buy a good seeder at the price we are selling them.

Each seeder is nicely finished and japanned.

\mathbf{Price}	No.	1.	 	 			•	 		•					• •		•	•		• •	 .:	\$1	.C	0	
Price	No	2		-		•																1	.0	0	

GRIFFITH @ TURNER CO

Heavy cold rolled steel furnace; extra large feed door;

G. & T. RA ER

Heavy cold rolled steel furnace; extra large feed door; wrought from handles, hrmly friveted on. Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside, thus retaining heat and economizing fuel. We always ship-furnace for wood fuel unless otherwise specified. Also used for lime and sulphur.

ameter of

inches.

inches.

inches.

inches.

inches.

inches.

urnace.



We ship furnaces alwave we always snip furnaces without firepot for coal unless otherwise specified. For wood fuel no firepot or grate is re-quired, but for coal it is neces-sary to use firepot. FIREPOT. Retail Price, \$7.50.

		Usual	
]	Rating.	
No.	3-30	gallons.	
No.	4 - 35	gallons.	
No.	5 - 40	gallons.	
No.	6 - 50	gallons.	
No.	865	gallons.	
No.	9 - 75	gallons.	

Actual Capacity. gallons. gallons. 3-No No. -30 4 No. No. $-37 \\ -45$ gallons. gallons. 5gallons. No. -60 8 No. gallons.

 $\frac{10}{60}$

Di: 26 28 29 31 34 36
Fu

rnaces Only. Price. \$12.00 12.50 13.00 14.00 16.00 18.00

	Furnace
ipping	with
eight.	Kettle.
pounds.	\$18.50
pounds.	21.00
pounds.	22.50
pounds.	24.75
pounds.	33.00
pounds.	36.00
pounds.	30.00
Kettles Only	•
Price.	
\$ 9.00	
12.00	
15.00	
18.00	
24.00	

27.00

iron handles.

Retail Price.

wrought

Sh w

160 190

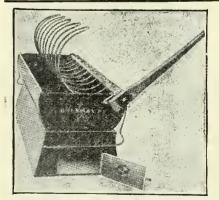
 $\frac{1}{200}$ 258

325

SEPARATOR BOILER AND STEAM FEED COOKER

OUR STEAM BOILER will be found the best on the market. They are made in the most substantial and workmanlike manner. The material in its construction is the best boiler plate steel of 60,000 pounds tensile strength, and tested to 150 pounds hydrostatic pressure, securing perfect safety and ample capacity to users. The fire door is of ample size, and the grate so designed that any kind of fuel may be used. The boiler is the tubular type, the flues passing through the water, giving unusually large heating surface, and as durable and efficient as any engine boiler of same dimensions.

We can furnish these boilers in sizes from 2 H. P. up to 35 H. P. Write for Special Catalog and Prices.



STEEL HOG SCALDING TANK

It takes the lead of anything on the market. When not used for scalding, can be used for feed cooker, boiling spray material, or for dipping sheep, n also be used for watering stock. This outfit will save half of the time, and most of the hard labor in con-

nection with Hog Killing, and will pay for itself in a very short time.

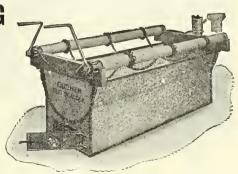
PRICE.....\$65.00

THE GOSHEN HOG SCALDER

It is substantially built and well braced. At the corners the sides and ends are flanged and riveted between heavy bar iron, which also answers for legs.

The center is supported with additional legs of angle steel. The material used is No. 20 Galvanized Steel with the exception of bottom of tank, which is No. 18. At either side of the top is a 4-inch hardwood roller, to which chains are attached, the rollers are provided with cranks and ratchets, to hold them in any position. The fireplace is 24 inches wide and 9 inches deep. The Scalding Vat is 30 inches wide, 68 inches long and 15 inches deep.

Shipping weight, 200 pounds. Price, complete.....\$50.00





ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.



NEW SHARPLES Suction Feed Tubular Cream Separator

When you buy a cream separator you naturally want the best-the separator that will net you the greatest dollar for dollar returns on your investment. The SHARPLES guarantees greater returns than any other. It is the only cream separator in the world guaranteeing a clean skim at any speed and delivering a cream of the same density all the time. That means a far greater saving of butterfat (money) for you.

Moreover, the **SHARPLES** is the easiest to clean, to operate, and is the most reliable. The famous Sharples Tubular Bowl has only one piece in it-no 30 or 40 discs as you find in others; the supply tank is only knee high from the floor and you don't have to strain your back to pour in the milk. For your wife and your family it means less work and greater convenience, and for you it means the best separator invest an make.

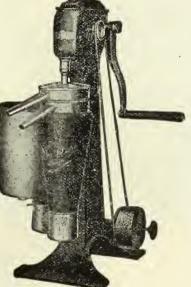
Sizes		Cap	acity	r	\mathbf{Sh}
1S	225	lbs.	\mathbf{per}	hour	
2S	300	lbs.	per	hour	
35	400	lbs,	per	hour	
4S	500	lbs.	\mathbf{per}	hour	
GS	700	lbs.	\mathbf{per}	hour	
9S	900	lbs.	\mathbf{per}	hour	

GRIFFITH @ TURNER CO

		near aspendent interest	
ty	e	Shipping Weight	1
r	hour	190	
r	hour	190	
r	hour	190	
r	hour	260	
r	hour	260	
r	hour	260	
-			

stment	you	c
P	rices	
\$	70.00	
	80.00	
	95.00	
3	10.00	
3	35.00	
3	50.00	

SHARLESS SPEED GOVERNOR PULLEY



The Sharples Gover-nor Pulley can be at-tached to a Sharples Separator in an instant —it clamps to the base of the concreter one -it clamps to the basa of the separator, one screw is tightened and no holes need to be drilled. From this Governor Pulley a round belt runs to a small grooved pulley on the worm gear shaft. You can belt direct from a gas engine, an electric motor, or a line shaft to the Governor Pulley. It prevents any jerks from the gas en-gine getting through to the gearing of the

the gearing of the rator. Variations the gearing of the separator. Variations in the speed of the engine are taken care of by the governor weights and shoes in the pulley, so that the separator always runs at an even and proper speed speed.

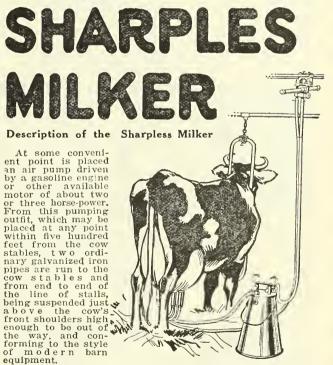
A starting and stop-ping handle is provided

separator. The power can be instantly applied or shut off the separator—the engine or line shaft can be running while separator bowl is at a standstill. **Price**, \$18.00.

G. T. CO.'S PERFECTION SEPARATOR OIL

This Oil is put up expressly for the use of separators, and we recommend it to users of all hand machines, it being a light oil and having a very low cold test.

1-quart c	an	•••	•	•••	• •	••	•	•	 •	•	•			•	•	•	•		•	. \$	30.	40
2-gallon	ean	• •	•••	••	• •			•	 •	•			•	•	•	•	•	•				65
1-gallon d	can	• •	• •	• •		• •	•		 •	•	•						•				1.	c0
5-gallon d	ee n								 			• •	•	•	•	•	•	•			4.	00



At every other stall a fixture is attached to the pipes for At every other stall a lixture is attached to the pipes for the purpose of connecting the pulsator. From this, two flexi-ble tubes descend, one to the bucket and one connected direct to the teat-cups. None of these tubes or attachments come in contact with the milk at any time. With the buckets and teat-cups the above described apparatus completes the outfit.

The bucket is nothing more than a plain, round, strongly built bucket, just a seasily cleaned as any other bucket. It can be furnished either in solid Nickel Silver (absolutely non-rusting) or in Armco Metal, heavily tinned. The latter is less costly but, of course, does not last quite so long.

The cover is a flat disc with two cocks on it for attaching the tubes in the case of the single unit and four cocks in the case of the double units. The handle is made in such a shape as to conveniently hold the teat-cups when not in use.

WRITE FOR SPECIAL CATALOG AND PRICES.



BOSS CREAM SEPARATOR THE



The Boss Cream Separator consists a water vessel containing one or ore milk vessels fastened together of more

with our Patent Can Attachment. The Water Vessel is made of the very best quality of 26 gauge galva-nized iron and is provided with a large water faucet at the bottom and over-flow pipe at the top.

flow pipe at the top. The Milk Vessel is made of the best grade 3XXX 4AAAA Charcoal Tin Plate. It is oblong and deep with a sloping bottom, milk and cream will drain off rapidly. All seams are care-fully soldered both on the inside and outside, and there is no chance what-ever for milk to lodge and sour. All milk vessels are coated with Aluminum which is the best rust

preventative known.

		Height.	Width.	Weight.							
No. $1 \rightarrow 2\frac{1}{2}$	gal, milk vess	el 18 in.	13 in.	14 lb.	\$7.75						
No. 2-4	gal. milk vess	el 20 in.	15 in.	17 lb.	8.50						
No. 3— 6	gal. milk vess	el 22 in.	17 in.	20 lb.	9.35						
No. 4 8	gal. milk vess	el 24 in.	18 in.	22 lb.	10.25						
No. 5-10	gal. milk vess	el 28 in.	18 in.	24 lb.	11.50						
	THE TWIN DOCC										

THE TWIN BOSS

The Twin Boss is especially adapted for farmers and dairy-men who get more than 10 gallons of milk at a milking. A milk vessel that holds more than 10 gallons is hard to handle and will not produce as good results as smaller ones. We would also recommend The Twin Boss to those who prefer a Separator with two milk vessels, so that one can be used in the morning and the other in the evening. This method has many advantages over the Separator with the single milk vessel.

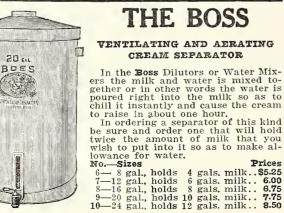
No.	Height	: L'gth	Width	Weight
22 two 21/2	gal, milk vessels18 in.	24 in.	13 in.	27 lbs.\$15.25
24 two 4	gal. milk vessels20 in.			33 lbs. 17.00
26 two 6	gal. milk vessels22 in.		17 in.	38 lbs. 18.50
28 two 8	gal. milk vessels24 in.			41 lbs. 20.25
	gal. milk vessels28 in.			46 lbs. 23.00
			~ ~	-

THE TRIPLE BOSS



Too much can hardly be said in favor of the **Triple Boss**. It is fast getting to be our best seller and from all indica-tions is the mations is the ma-chine of the fu-ture. With two ture. With milk vessels, one for the morning's and one for the evening's milk, a cream can to keep the cream in the best condition for

enough back of the cream can to set another vessel, in which to keep the butter during hot weather, it is certainly all that one can desire in the line of a Cream Separator.



10 -

CHAMPION AUTOMATIC MILK COOLER-AERATOR



ROOT SANITARY COO

Corrugated cylinders retard the flow and retard the flow and cause a more thorough cooling. These cor-rugations are just sufficient to retard the flow and make cleaning easy. Sediment on the inside of cylinon the inside of cylin-ders that in ordinary coolers reduce the effi-ciency, can be re-moved, as cylinders can be taken out and

can be taken out and scrubbed as often as necessary to keep them clean. The cylinders are made of special drawn copper tubing, heavily tinned, fitted with strong brass ends, the supporting racks also supporting racks also water columns and hangers, are made of the best grey iron castings, covered with

s, covered with a thick coat of galvaniz-in g. A 11 parts with which the milk comes in contact are copper heavily tinned All coolers

are shipped

complete with wall brackets unless ordered otherwise.

	Capacity Per Hour,	Capacity of Res.,	No. of	
No.	Gals.	Qts.	Cylinder.	Price.
0	20	18	4	\$32.50
1	35	26	6	38.75
2	50	32	6	45.50
3	65	42	6	52.00
3 1/2	85	42	8	65.00
4	120	70	8	104.00
Portable	stand, extra			11.00

ASEPTIC MILKING TUBES FOR COWS WITH SORE TEATS.

Insert one in the teat and the milk will flow.

Plain Tube, 35c.

Self Retaining Tube, 35c.



The Minnetonna process of churning is the most efficient method of agitating the cream during churning yet discov-ered. It works on the same principle that is used in some of the most modern and approved big creamery churns.

Style No. 1-H hand-power plant; churning capacity, 12 to 15 gallons; working capacity, up to 25 pounds butter.

The style No. 3 is a very good size for dairy farmers want-ing to make butter once or twice a week by hand, and having from five to fifteen cows.

No. 1 H. P. Minnetonna Home Creamery; hand and power. Churning capacity, with barrel half full, 12 gallons. Work-ing capacity, 3 to 20 pounds. Can be belted to your gasoline engine. Pulley, 8 x 214 inches. Speed, 200 R. P. M. Floor space required, 2 ft., 8 in. x 2 ft., 7 in. Shipping weight, 210 pounds.

It Works the Butter Properly and Quickly

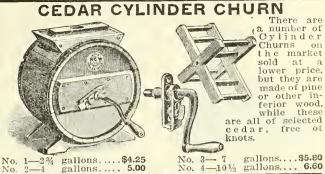
Here is another feature wherein the

thoroughly worked between the main



Cross section view of Minnetonna ome Creamery, showing ho the butter is worked be-tween two rolls. Home how

	Factory Number	Churning Capacity With Drum Half Full	Butter Working Capacity	Shipping Weight	Style	Price
	No. OMB 1 H.	12 Gallons	3 to 201bs.	195 lbs.	Hand Opera- ted	\$44.75
Minnetonna Home Creamery	No. OMB 1 H. P.	12 Gallons	3 to 20 lbs.	210 lbs.	Hand and Power	\$54.75
	No. OMB 2 H. P.	20 Gallons	5 to 40 lbs.	250 lbs.	Hand and Power	\$64.75



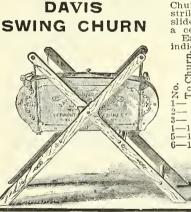
BALTIMORE FAVORITE CHURN



It is made of thoroughly It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong and not liable to break. The bails are fastened to the iron ring, where they need to be fastened. We furnish pulleys for power. Prices extra, ac-cording to size desired. Directions for using in each Churn.

62.95575710 05005570510 0500557050 0511005.	52202170250256070 Churr	000 000 000 000 000 00 00 00 00 00 00 0	lies \$6.75 9.25 11.75 21.35 25.00 29.25 25.00 29.25

10-inch Single Pulleys for above. List, \$4.00. Retail, \$3.00.



The round ends of the Churn cause the cream as it strikes against them to slide up and over, turning a complete somersault. Each Churn has a glass indicator in the cover.

To Churn, Churn,	° ^{Capacity} , ∞Gallons.	i⇔Weight, ⇔Pounds.	Price.
N PO	Ca	P.0	Pr
1-4		55	\$15.25
25	10	59	18.75
3 8	16	73	19. 64
i -10	20	85	22.75
5-13	26	98	26.60
6-17	34	112	31.85
	Addi	itional	for Pul-
	ley, 12	x3, wit	h attach-
1	ments,	\$6.50.	
- fort	Add	itional	for Tight
1	and	Loose	Pulley,
110	12x3,	with	attach-



1- 5-gal.	Churns,	1/2	
2- 7-gal.			
3-10-gal.	Churns,	1	

No. No.

ments, \$9.00.

									. \$8.25	
to	$3\frac{1}{2}$	gal.	 						.10.25	each
to	5	gal.		÷	÷.,				.70.50	each
		0								

GRIFFITH @ TURNER CO





from Made Hard Maple turned from a solid block. Every Bowl is first quality, smoothly finished and polished.

Bowls, 15 inches. Bowls, 17 inches. Powls, 19 inches.

SPECIAL CARVED DESIGNS

The prices given below are for special carved blocks, pound or half pound, for any of the above printers.

 Plain Block, no carving.
 \$.25

 Plain Sheaf Blocks, chain border.
 .75

 Initial on block, up to five letters.
 1.50

 Blocks with more than five letters, \$1.50, with an addi-tional charge of 10 cents for each letter over five. For Lafayette Printers, add price of plate..... 25 4x12 Butter Spade.....15c.

No. 1 Butter Ladle.....25c.

RICHAROL & BECHTOLD

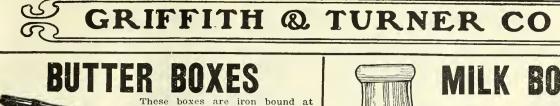
through the printer head block.

1/2 lb., complete, with sheaf of wheat block \$2.25

1 lb., complete, with sheaf of wheat block 2.25

LADLES AND SPADE

with



the edges and capped at the corners, An ice box is fitted in the center, which can be removed at will and the space utilized.

Ľ	Capacity.	Price.
	36 ½-pound prints	610.50
	64 1/2-pound prints	12.25
	80 ½-pound prints	12.90
	100 ½-pound prints	14.00
ġ.	120 ½-pound prints	15.25
ŝ.	140 ½-pound prints	16.40
10.02	20-lb, prints, \$9.00 56-lb, prints	11.75
1	30-lb. prints, 10.00 80-lb. prints	12.90
	40-lb. prints, 11.25 96-lb. prints	14.00
	120-lb. prints\$15.25	

PELOUZE DAIRY SCALE

Graduated by Tenths of a Pound.

GUARANTEED ACCURATE.

Made to comply with Departments of Weights and Measures. Large Circular Brass Dial, with distinct, black figures and graduations. Two indicator hands—one red, to be

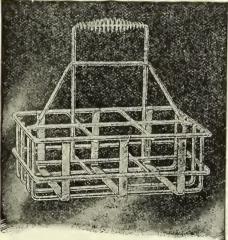
set at the weight of empty pail.

Very attractive and durable.

"PELOUZE" DAIRY SCALE.

No. D 40-Capacity 40 lbs.....\$3.50 No. D 60-Capacity 60 lbs..... 4.00

MILK BOTTLE BASKET



These baskets are made from the best grade of flat and round of lat and round steel wire. The welded joints make them the same as one piece, hence, all st r a i n and shocks are dis-tributed over the entire body. No rivets be-ing used in it s construc-tion, there is no part to get loose and at the same time is

same time is not weakened by rivet holes. It has no crev-

ices in which dirt can collect consequently it is easy to clean and sterilize.

6 bottles...\$1.50 8 bottles... 1.75

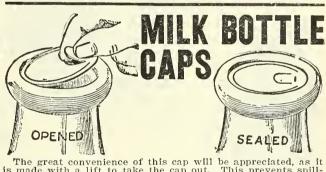


These bottles are made by a factory devoted especially to bottle making. The glass is clear flint. This makes a bottle that the milk shows up to the best advantage. They are made to stand the rough usage of the street delivery and collection on routes, and washing and sterilizing in the dairy house. These bottles are made with a long neck, and will show a deep cream line. Prices named are for bottles F. O. B. Baltimore

Show a deep create this. Baltimore, If you desire name plates, same can be put on any order of five gross or more of one size, at an additional cost of \$1.50 for each name plate. Each size bottle will require a different plate. On second orders, there will not be any extra charge

	Quart.	Pint.	½ Pint.	1/4 Pint.
One dozen	.\$1.25	\$.90	\$.90	\$.90
One gross	.11.00	9.25	9.20	9.20
Two gross and over		9.20	9.10	9.10
Five gross and over		9.10	9.00	9.00
Fifteen gross and over		9.00	8.90	8.90

WRITE FOR CARLOAD PRICES.



The great convenience of this cap will be appreciated, as it is made with a lift to take the cap out. This prevents spill-ing the milk, or having to use anything to pry it out. These caps are made from 40-point thick board, and are thoroughly waterproofed with paraffine.

One thousan	ıd .		 	 	\$.5	0
Five thousa	nd		 	 	2.2	5
Twenty-five	tho	usand	 	 		5
LARGER						

PARCHMENT BUTTER PAPER

It can be used in all cases where wax paper, tin foil or muslin has been adopted, and in many cases where these can-not, for preserving goods from the effects of moisture, etc. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pounds, and 10x15 for two pounds. Price, **30c.** per pound; by mail, **36c.**; 6 pounds, **\$1.75**.



DOMINION DAIRY AND HOUSEHOLD CLEANSER

An improved cleanser and purifier for all dairy and household purposes. Just the thing for Churns, Pails and anything used in dairies. For household use, laundry work, all kitchen use, house-cleaning, public buildings, hotels and factories.

Dissolves with greatest ease in either hot or cold water, and rinses off perfectly clean without leaving a soapy scum. Price: 5-lb. bag, 25c.; 25-lb. bag, \$1.10.







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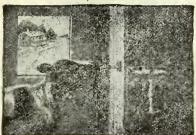
GRIFFITH @ TURNER CO

KEYSTONE DEHORNING CLIPPER

The practice of dehorning cattle is coming more into vogue. It is a mercy to the animals. Prevents goring. The blades on the Keystone are made of best steel. No twisting motion or sec-ond cut on horn. Parts are all inter-changeable, and can be replaced. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon. soon.

Clipper with leader and rope, extra blades and screw, fully warranted. Our Special Price, \$18.00. Clipper alone; Our Special Price, \$16.00.

KEYSTONE CALF FEEDER



simple device. A simple device, based on natural laws, for feeding calves without teaching them to drink. The food is sucked through a rub-ber nipple and is mixed with the caline and the Der nipple and is mixed with the saliva and the digestive juices in a natural way. This feeder will prevent scours. It will make the calves fat and healthy. Used by more than 30 agricultural colleres **Drive String** agricultural Price, \$1.50. colleges.



RICE'S CALF WEANERS

Also Prevents Cows from Sucking Themselves.

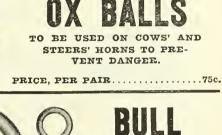
N	o. 1—For Calves; Retail Price \$.50
N	o. 2—For Heifers; Retail Price
N	o.3—For Cows; Retail Price



SHAW'S CALF WEANERS

The Shaw's Calf Weaner is thoroughly practical. The action is entirely in the basket, it being hinged to the end of the nose piece. The basket is made of heavy galvanized wire, with extra bars running through. The halter that goes over the neck is made of solid leather, and can be ad-justed to suit the calf's head.

Prices: No. 1, 65c.; No. 2, 85c.; No. 3, \$1.25.







HOG SNOUT CUTTER. PRICE\$1.75

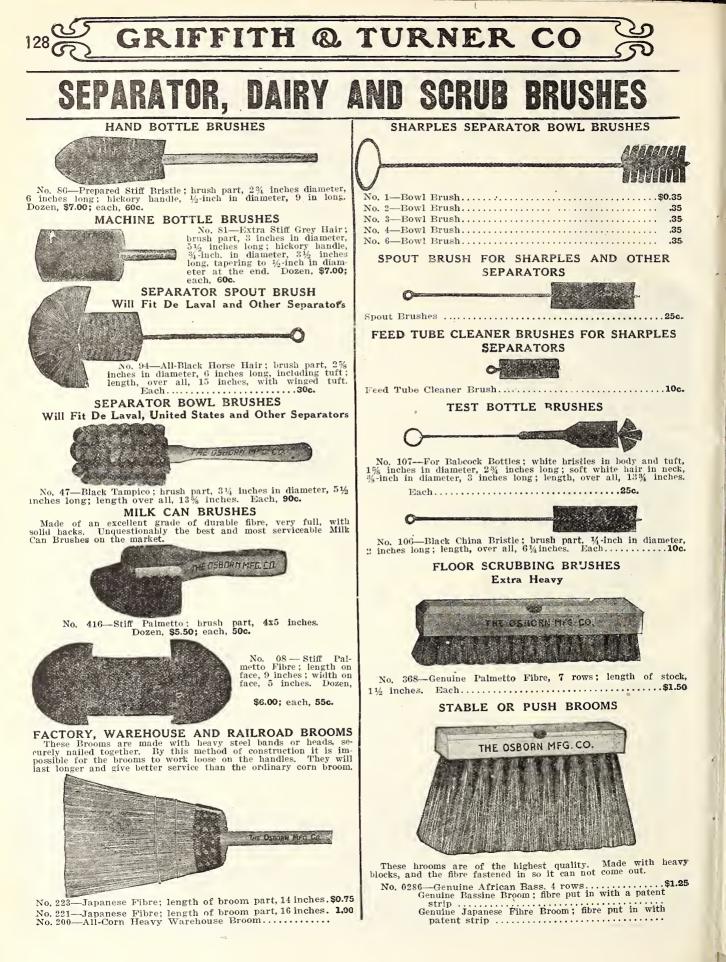




Bull Leader Snaps

These snaps are made to attach to a pole, and with each one there is furnished a chain and screweyes to attach to pole, for releasing the snap. **Price, without pole......\$1.00**

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International Onepipe Heater

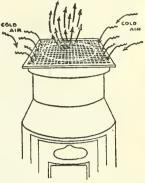
GRIFFITH @ TURNER CO



THE-ONEPIPE or, as termed by many manufacturers, the "pipeless" heater is the most modern development of the warm air heating system, and we unhesitatingly recommend the INTERNATIONAL ONEPIPE HEATER as one of COLD the most practical, durable and efficient heaters of this type . on the market.

Before trying to decide on the kind of heater to buy, recommend that you get the advice of our engineer, for it is a fact that no two houses are exactly alike, and each one presents an individual problem.

INTERNATIONAL ONEPIPE HEATERS are adapted to many city houses as well as to country homes. They are especially efficient in bungalows and the square type two-story houses with open stairways. They are ideal for heat-ing churches, stores, etc., because of the recirculating fea-ture which takes the cold air from the floors. Because of the prior installation cost they are frequently placed in their low installation cost they are frequently placed in summer camps and cottages that are occupied in spring and fall and for week-end parties in the winter.



The **INTERNATIONAL ONEFIFE HEATER** is simply a device for heating the air and causing it to circulate through the rooms. It is essentially the same as a regular INTERNATIONAL Warm Air Furnace—not a stove, but a furnace, properly designed to get the greatest benefit from the fuel burned, and all parts carefully mounted and fitted. Surrounding this are two casings, an inner and outer casing, and on top you can see the

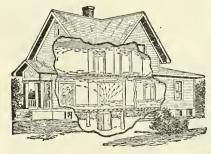
Surrounding this are two casings, an inner and outer casing, and on top you can see the register. This heater uses only the one large register, which is divided into two parts. It is the warm air pours up through the central portion of the register it goes at once to the well-known fact—as old as nature itself—that air when heated expands and rises. As the warm through the outer portion of the same register, between the outer and inner casings, and is then drawn down through the outer portion of the same register, between the outer and inner casings, the direction of the arrows in this picture. This will be understood by carefully following the direction of the arrows in this picture.

THE CASING

The feature that distinguishes the INTERNATIONAL ONEPIPE HEATER from stoves, ordi-nary furnaces and all other Onepipe, or so-called "Pipeless" heaters, is the construction of its casing. The castings are surrounded by two casings or "jackets"—the heated air passes up in-side of the inner casing while the cooler air is returned between the inner and outer casings. Both of these are made of rust-resisting galvanized iron and they are so shaped that there is not a single sharp angle or dead pocket to obstruct the free and easy flow of air. The inner casing is in one piece and carried right down to the base and openings are cut in it through which the air circulates. This construction is much more stable than where this on this page. Inside of the galvanized iron are placed two thicknesses of asbestos paper and one thickness of bright corru-gated tin—these are all securely riveted together. The purpose of the corrugations is to provide a layer of air which, in where it is needed. Contrast this durable heavy construction with a common type of inner casing made of cheap black iron with a single asbestos lining pasted inside, or with a secondary lining of black iron.

GUARANTEE

Where we recommend an **INTERNA-TIONAL ONEPIPE HEATER** it is sold under the positive guarantee that if it does not prove satisfactory, after a 60-day trial in cold weather, it can be taken out and returned and the purchase price will be refunded will be refunded.



International Onepipe Heater as installed in a home showing how the warm air circulates everywhere.

LIST PRICE, CAPACITY and DATA

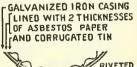
5	ice	Price	ty s		0	Pipe	SIZE OF REC	SISTER
Number	List Pr	Retail]	Capacit No. of Rooms	Diam. Casing	Diam. Firepot	Diam. Smoke	Outside	Warm Air Pipe
*38-0 42-0 46-0 50-0 †40-0 †40-0 †44-0	$\begin{array}{c} \$270.00\\ 300.00\\ 344.00\\ 400.00\\ 284.00\\ 324.00\\ \end{array}$	\$162.00 180.00 206.40 240.00 170.40 194.40	4 to 6 6 to 8 8 to 10 10 to 14 6 to 8 8 to 10	38-in. 42-in. 46-in. 50-in. 40-in. 44-in.	18-in. 20-in. 22-in. 24-in. 20-in. 22-in.	7-in. 7-in. 7-in. 7-in. 7-in. 7-in.	24-in.x27-in. 30-in.x30-in. 35-in.x35-in. 40-in.x40-in. 30-in.x30-in. 35-in.x35-in.	18-in. 22-in. 26-in. 30-in. 22-in. 26-in.

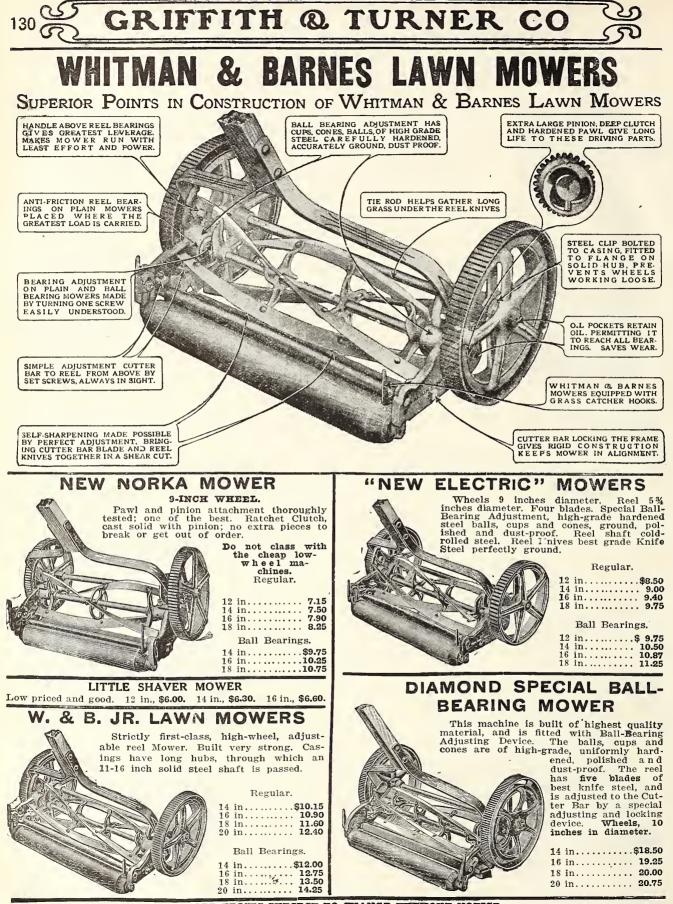
*The 38-0 size does not have coil opening.

†These sizes have single feed door.

All Double Door Heaters measure 7 feet 11 inches from base to register, but extension pipe telescopes, so as to fit without cutting, as low as 6 feet 11 inches. Special measurements can be furnished to order, when distance from basement floor to top of first floor is given.

Every Onepipe Heater is shipped complete with casings and electroplated register; and including also one galvanized smoke pipe elbow, one joint of smoke pipe and damper with regulator and chains so that it can be operated from the floor above.





ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.



LAWN MOWER REPAIRING AND SHARPENING

UR well-equipped shop and competent mechanics, that have been repairing and sharpening lawn mowers for years, as-sures you of a first-class job. In a season we repair many hundreds of lawn mowers, and as most of them have to be repaired and sharpened before the first grass mowing, you will readily see the necessity of sending your mower in y. During the early season we run our repair department many times at night that we might give our parrons prompt early. service.

We find that we are many times delayed in getting work out promptly by the necessity of having to send out of the city for repairs for mowers that we do not sell. In fact many machines come in that we are unable to get repairs for, these ma-chines give very little service and are possibly bought because they are cheap in price. It pays to buy a mower that not only can be repaired, but one that will give continued service. The better the mower the less repairing necessary.

Our repair department does not confine its operation to sharpening and repairing lawn mowers only. We are in position to do general repair work and solicit your patronage in other lines of work.

For your convenience, look over your lawn mower during the winter and send it in during the late winter months. This will give our mechanics ample time to give it the attention required, and will save you the possibility of being inconvenienced by having to wait your turn later on.

All work that is turned out is in order to do the work required and we recommend that mowers should be left as our mechanics adjust them; this is a most important matter, as no matter how well a mower is sharpened, if it is no. adjusted properly, it will not do satisfactory work.

BALTIMORE HORSE

Buy good Lawn Mowers, and have them sharpened regularly and you will reduce Lawn Mowing to a pleasure.

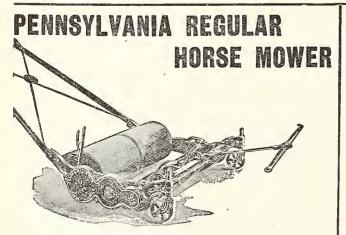
The Baltimore Horse Lawn Mower is made of best material; most satisfactory adjust-

The Baltimore Horse Lawn Mower is made of best material; most satisfactory adjust-ment of knives; strong and durable; open castor wheels which do not press down the grass; heavy roller, which is a necessity to keep the lawn in good order; simplest and strongest machine in construction on the market, and most economical as far as repairs are concerned. It is made with shafts and seat, and also with draft rod. For hilly lawns, we recommend shafts and seat, but for level lawns with many trees and shrub-bery, we recommend the draft rod, as it enables the driver to work the machine close to them. See it work, and you will be convinced that it is the most practical machine made. Our C. Price

AWN MON

2	hee tite
25-inch Machine, with Draft Rod	100.0 0 110.0 0 135.0 0
Shafts for 30-inch Machine	12.50 15.75

Shafts for 40-inch Machine	18.75
Seats, less Springs for 30-in. Machine and over.	2.25
Seat Springs for 30-in. Machine and over	4.00
sour opings for so in machine and storest	



Furnished with handles and draft irons, the latter arranged to swing to the side, thus permitting the horse to walk on the cut grass.

	with Draft Rod	
	with Draft Rod	
	with Shafts and Seat	
	with Shafts and Seat	
Shafts and Seats	as Extras	



Cylinder open or solid, with 4 blades, for 30-inch only. Cylinder open on 35-inch only. Height of Driving Roller, 11 ¼ inches. Diameter of Cylinder, 6% inches.

l	30-inch	Machine, w	ith	Draft	Rod.		 	 .\$100.00
ł	35-inch	Machine, w	ith 🗌	Draft	Rod.		 	 , 120.00
ļ	30-inch	Machine, w	rith	Shafts	and	Seat	 	 . 125.00
1	35-inch	Machine, w	vith	Shafts	and	Seat	 	 . 145.00

GRIFFITH @ TURNER CO

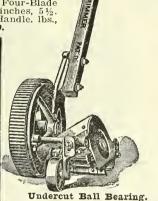
Pennsylvania Undercut B. B. Lawn Trimmer

The unique construction of the Un-dercut Trimmer permits cutting, not only close up to a wall, fence, tree, etc., but it will get the grass under a fence or rock-cut base of tomb stones, house foundations and other places hitherto out of reach of anything but hand shears. The slanting side plate and conical cylinder make it possible to cut all grass left by the regular style of lawn mower. style of lawn mower.

9 ½-inch Drive Wheel. Four-Blade ylinder. Width of Cut, inches, 5½. Veight, boxed, including Handle. lbs., Weight PRICE, EACH, \$12.50. 32.

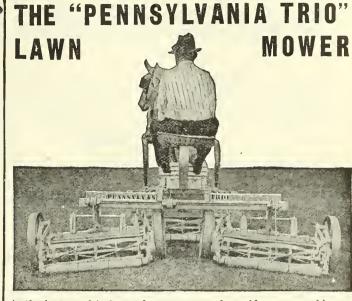
Horse Lawn Boots





Fastened firmly to hoof instead of around ankle, giving free action to horse's feet. Rolling toe prevents cutting of turf. Width inside, No. 2, $5\frac{1}{2}$ inches; No. 4, $6\frac{1}{2}$ inches; No. 6, 7 inches—the right sizes for Nos. 2, 4 and 6 horse-shoes. No. 0 Mule and No. 1 Pony. Special sizes to order. Width inside, 4 inches; $4\frac{1}{2}$ inches.

OUR SPECIAL PRICE, Per Set, \$15.00.



is the last word in horse-drawn mowers for golf courses and large estate

Self-sharpening Crucible Steel Blades throughout. Bottom knife Seil-snarpening Cruciple Steel Blades throughout. Bottom knife bolted solidly to the side plates, eliminating any tendency to be-come twisted or strained. Adjustments quickly made by two bolts. Can't Jump When Cutting Heavy Grass.—Automatic regulation cylinders down in proportion to the pull of the machine. New Lifting Device allows mower to leave four inches of grass "in the rough."

"in the rough." Short Turning Radius.—The single mower is in the front, allowing an exceedingly short turning radius without injury to the turf.

Semi-Floating Axle and auto-type ball-bearing wheels insure eat strength and easy running. Width of Swath, 86 inches. great strength and easy running. Extra Units, \$100.00. PRICE, \$400.00.

FULLER & JOHNSON MOTOR



A BETTER LAWN AT LOWER COST.

The problem of keeping the lawn in an attractive condition is one which confronts all superintendents of parks and cemeteries and owners of private es-tates.

On any acreage at all the hand mower is out of the question, while the horse-drawn mower injures the turf and requires the use of the hand mower for trimming, besides entailing the maintenance of the horse.

The cutting cost embraces three factors: invest-ment in the mower and interest; up-keep, not includ-ing interest; expense of labor. The aim is to maintain lawns in an unbroken sur-face with an underlying texture that will insure an

even growth.

The Fuller & Johnson Motor Lawn Mower therefore combines power cutting capacity with the detailed of the mower. It does a finished job in one operation. Unit-built, it is perfectly balanced and is the one practical motor-driven lawn mower. In view of the scarcity of day labor, it is the economical solution of all lawn cutting problems. It will replace two men out of three and will pay for itself in a single season. Send for Illustrated Catalogue. The Fuller & Johnson Motor Lawn Mower consists of a light and powerful gasoline motor mounted on the frame of a trac-tion roller and arranged to propel a 25-inch lawn mower unit. Motor: The motor is a single-cylinder 4-cycle vertical motor having 3-inch bore and 3-inch stroke, running 1200 R. P. M. The speed of the motor is controlled by a governor. Lawn Mower Unit: The lawn mower unit consists of a cutting reel 25 inches long and 6½ inches in diameter carried in liberal bronze bearings in a light rigid frame. This frame is carried on two caster wheels and a long wooden roller. The lawn mower unit is attached to the main frame of the machine in the most flexible manner, so that the mower may follow the inequalities of the surface of the ground closely. WRITE FOR PRICES.



The above cut represents our **Three-Section Land Roller.** Heretofore attempts have been made to construct an all-steel roller, with the result that the steel brackets employed in this construction invariably allowed the rolls to get out of alignment, thus quickly wearing out the boxes. To avoid this tendency, we have substituted heavy iron brackets to support the bearings and which entirely surrounds them. This construction insures true alignment and eliminates constant expenditures for repairs and replacing boxes. An additional feature of this roller is the blocking in of the frame under the pole with a 4-inch hard wood block. This construction gives the roller perfect rigidity and absolutely springing of the steel frame when turning around, crossing dead furrows, etc. It is further braced with steel braces from the frame to the pole, which not only adds strength to the roller, but prevents breaking of the pole.

The Drums are 24 inches in diameter, made from extra heave hard steel sheets and are not easily indented. The ends are made from pressed steel and fitted with heavy cast bearings which allows each roll to turn independently. The shaft is 1¾-inch high carbon steel.

Sections	Length	Diameter	Weight	Our Special
	feet	inches	Ibs.	Price
2	8 8	24	550	\$42.50
3		24	585	45.00
Price does not : Doubletrees and	nclude Doubletrees an Neck Yoke	d Neck Yoke.		5.00

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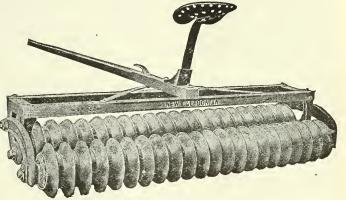
GRIFFITH @ TURNER CO.



Field Showing Work of Double Gang Fulverizer.

In presenting this **Double Gang Pulverizer**, we wish to call special attention to the construction of the end brackets, which are so constructed as to allow the trailer to raise and fall with the variations of the soil, thus insuring an even pressure from both gangs at all times.

The trailer is detachable, by removing four bolts, thus makng a single pulverizer where lighter work is



required. The trailer is so arranged that the cutting edge of each disc comes between two of the front ones, thereby pulverizing the entire ground and leaving it thoroughly packed in small ridges, thus retaining the moisture.

This pulverizer is furnished with hard maple bearings, housed in, which will not cut out by grit and oil, as do most of the so-called roller or other metal bearings.

	Size	Front Gang	Rear Gang	Weight	Price
No. 158	8-foot	21-15 inch Discs	22-12 inch Discs	1150 lbs.	\$85.00

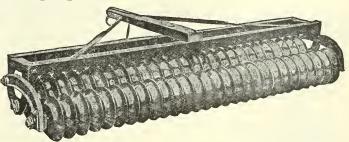
GRITCO C-PACKER AND PULVERIZER

If you own a tractor, this Packer and Pulverizer will recommend itself to you. It is made like the smaller sizes, except parts are heavier and stronger. Braces are long and strong, and are bolted through the short tongue in front of the draw bolt on the clevis. A ring is provided to hitch to draw pin on tractor.

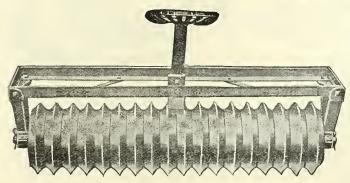
This machine will do more real work in putting the ground in order than any other machine on the farm.

 No.
 Size
 Front Gang
 Rear Gang
 Weight
 Price

 210
 10 ft.
 27-15 in. discs
 28-12 in. discs
 1450 lbs.
 \$125.00



GRITCO-C SINGLE PULVERIZER

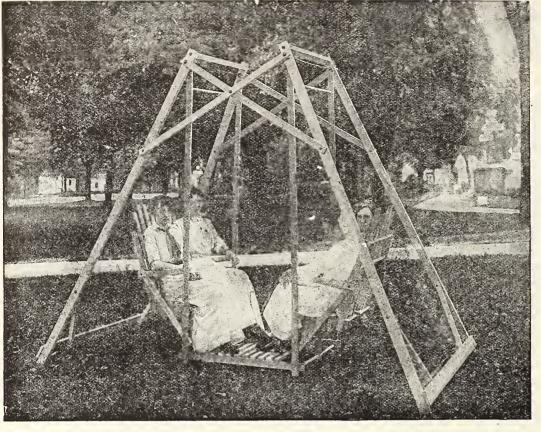


The Gritco-C Single Soil Pulverizers and Packers are used by up-to-date farmers for rolling meadows, crushing lumps, packing soil, and conserve moisture. They are now recognized as a necessary implement on every farm.

The frame is made from angle steel firmly bolted to heavy cast end brackets. Axle is 1³/₄-inch cold rolled steel. Boxes are hard maple, which can be easily renewed. Discs are 4 inches wide cast in one piece, fitted closely together. One side of each end disc is solid to keep out stones and dirt. Two or more discs can be removed for straddling corn or other crops, split collars holding remaining rolls in place.

No.	Size	Gang	Weight	Price
188	7 ft.	24-18 in. discs	1000 lbs.	\$72 .00





Accompanying cut represents our "Bo-nanza" four-passen-ger Lawn Swing. It is also built in two-passenger. Made of hardwood, with ¾-inch bolted frame. Has th re e-se at and foot-rest adjust-ments. Frame paint-ed red; balance of swing golden oak. Hooks where swing bars hang on iron rods at top of frame. Dimensions. List Special Price. Price. 2-Passenger: \$12.80 \$8.00 4-Passenger: \$16.00 \$10.00 WINNER WINNER LAWN SWING. This Lawn Swing is made of hardwood, frame painted a bright vermilion, chairs, hangers and chairs, hangers and foot-rest a beautiful golden oak, and is a splendid value for the money. Our List Special Price. Price. 4-Passenger: \$13.60

\$8.50 COMPETITION LAWN SWING. Our Price Price. List Special 4-Passenger: \$12.80 \$8.00



\$3.00

Golden Oak, each \$4.80

36 INCHES.

LAWN SWING. THE BONANZA Accompanying cut

2-Passenger..... \$9.60



At the price we are listing this Machine we are placing a strictly high-grade Machine in the reach of all.

The furniture is oak and finely finished, an ornament to any home.

Has High Arm Drop Head, Flat Top Tension with a convenient Thead Release, and the Needle Bar serves as a Thread Take-up in conjunction with a Spring Thread Controller.

A strong, well-made Machine, with a Positive Feed, Large Cylinder Shuttle and an Automatic Bobbin Winder.

The Steel Pitman with ball bearings insures ease in running and adds greatly to the appearance and durability of the Machine.

The attachments are free, and include Tucker, Hemmers, Binder, Quilter, etc., Oil Can full of oil, Screw Driver and full directions with every Machine.

Weight, crated for shipment, 110 pounds.

OUR SPECIAL PRICE..... \$40.00

Head, Automatic Lift, Quartered Oak Furniture. Positive Cam Drive Take-

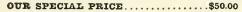
up, Automatic Tension Release, Capped Needle Bar, Automatic Bobbin Winder, Positive Stitch Adjustment with a Reliable Scale, Long Feed Bearing to insure uniform length of stitch on all surfaces, handsomely enameled and decorated.

Has Steel Pitman with ball bearings. This is a most important improvement, as it not only contributes materially to the easy-running qualities, but also adds greatly to the appearance and durability of the Machine.

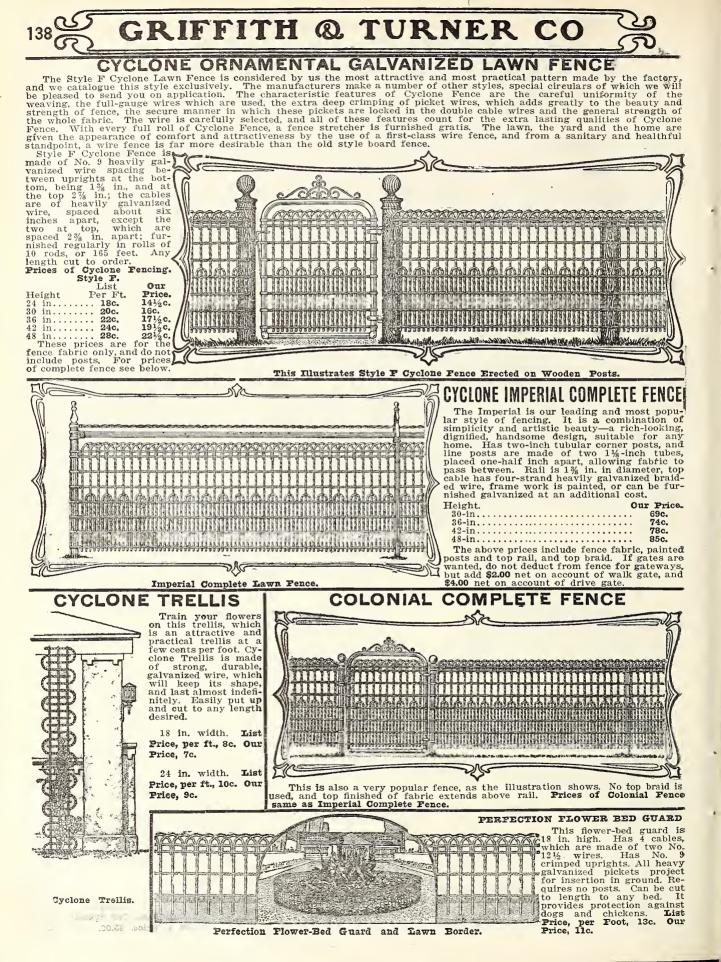
A complete set of attachments, oil can full of oil and full set of directions with each Machine.

The highest grade Machine made for such a small price.

Weight, crated for shipment, 125 pounds.

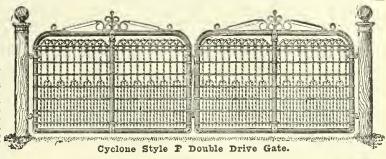


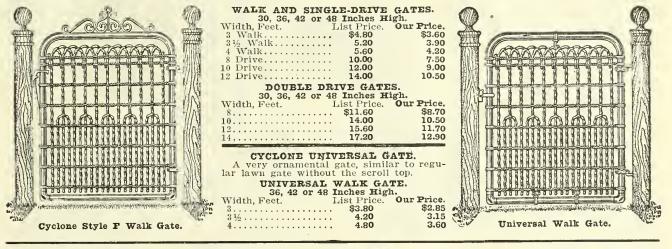




GRIFFITH @ TURNER CO CYCLONE ORNAMENTAL GATES STYLE F

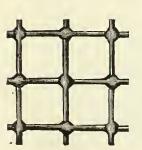
The frames are made of high-grade heavy steel tubing, and are regularly finished in black paint, al-though galvanized frames can be furnished at an additional cost. Black-painted frames are always shipped unless otherwise specified. Filling of these gates is the regular Style F—Cyclone Fabric, de-scribed on opposite page, and as shown by illustra-tions, the gates have ornamental scroll tops. In giv-ing the dimensions of gates, state first the height and then the width. The width of Cyclone Gate means the distance between the posts. The factory makes proper allowance for hinges and latch.





	STYLE A FARM GATES
	Frames are made of high carbon steel tubing
	weight farm fence, with the uprights every six inches. Frames regularly painted black. Can be
	furnished galvanized at an additional cost. Un- less otherwise ordered, painted frames will be
	shipped. Furnished complete with hinges and latch. Width means width of gateways. Factory
	makes allowance for hinges and latch. Style A—Single Drive Gates.
	36, 42, 48 or 54 Inches High. Width, Feet. List Price. Our Price.
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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Galvanized Steel Wire Cloth



Made from heavy wire thoroughly galvanized after weaving. This insures long life, as every part of the wire is coated by the dipping process.

Used largely in corn cribs to make them mice and rat proof, also for sieves and fan screens and over windows for protection.

We carry it in stock in widths 2, 21/2, 3 and 4 foot.

The word mesh means number of meshes to the inch (2x2, 2 to the inch; 4x4 mesh, 4 to the inch, etc. Full rolls contain 100 running feet.

PRICE.

	Full Rolls.	Less Than Full Rolls.
2x2 Mesh, per sq.	ft \$0.0 6	\$0.071/4
3x3 Mesh, per sq.	ft	.071/2
4x4 Mesh, per sq.	ft	.073/4

Diamond Mesh Poultry Netting

Price

2.30

4.00 5.35 6.70

8.00

\$1.45

2.10

2.65

3.60

4.85

6.05

7.20

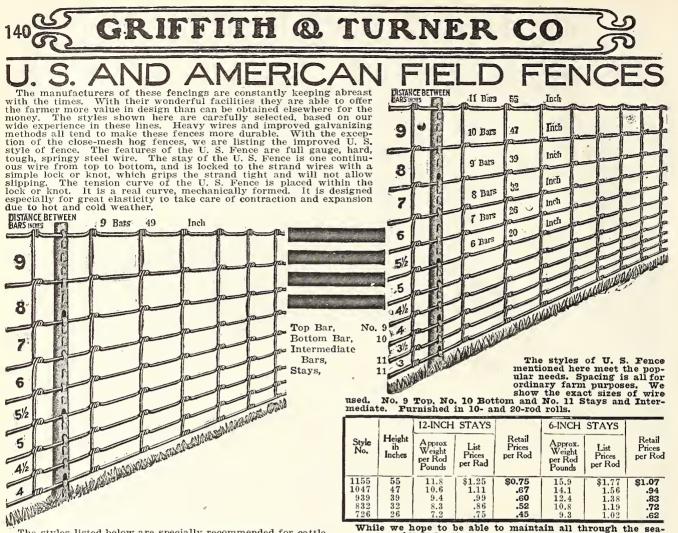
Staples

The wire we offer is No. 20, double twist, 2-inch mesh, thoroughly galvanized. Sold in bales of 150 running feet. List Retail Sq. In. Price No. Wide. Feet. Per Bale. Weaving. \$2.14 \$1.60 Galv. After 2012150 $\frac{\tilde{20}}{20}$ 18 225 3.08 300 243.92 $\frac{20}{20}$ 36 450 5.35 48600 7.13 8.91 $\tilde{2}0$ Ĝŏ. 750 2072900 10.69 Galv. Before Weaving 20150 \$2.14 12 $\overline{20}$ 3.08 3.92 18 225 $\tilde{2}0$ 24300 20 $\begin{array}{c} 450\\ 600 \end{array}$ 5.35 20 20 $\hat{6}\tilde{0}$ 750 8.91 20 72900 10.69

Price, 11/2c. per square foot in less than bale lots. for fastening, 10c. per pound.

2

	Mesh Galv. Af	ter Weaving.	List Price	Retail Price
0.	Inches wide.	Square feet.	Per Bale.	Per Bale.
20	12	150	\$4.95	\$3.75
20	18	225	7.12	5.35
20	24	300	9.08	6.85
20	36	450	12.38	9.30
20	48	600	16.50	12.40



The styles listed below are specially recommended for cattle and division fences.

		12-INCH		
Style Number	Height in Inches	Approx, Weight per Rod Pounds	List Price per Rod	Retail Prices per Rod
949	49	10	\$1.05	\$0.63
845	45	9	.95	.57
635	35	7	.73	.44

HEAVIER AND LIGHTER WEIGHT FENCES.

HEAVIER AND LIGHTER WEIGHT FENCES. We can furnish any of the above fences made of all No. 9 wire where an extra heavy ience is desired. Of course, this increases the price, but a great many practical people consider it the most economical fence in the long run. In regard to the lighter fences, will state that we find we sometimes are put in competition with manufacturers who seek for trade on a basis of price alone, who make fencing out of wire much lighter than our standard specifications. To compete with such manu-facturers we are prepared to furnish U. S. fence lighter than the standard fences mentioned above, but we do not recom-mend the lighter weight. Information and prices in regard to heavier and lighter fences will be cheerfully given on appli-cation. cation.

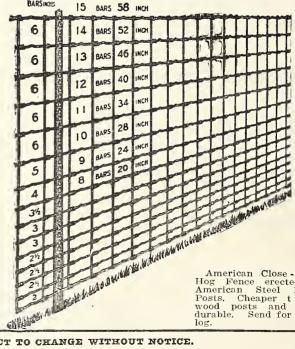
AMERICAN CLOSE-MESH HOG FENCE.

Where a very close fence is wanted for hogs, we recommend this style. It is made with No. 10 top and bottom wires, No. 12 intermediate wires and No. 13 stay wires. It also makes an excellent barnyard fence, as the spacing of the lower wires is close enough to turn small stock and poultry, with the ex-ception of the smallest chickens.

		12-INCH	STAYS		6-INCH	STAYS	
Design No.	Height in Inches	Approx. Weight per Rod Pounds	List Prices per Rod	Retail Prices per Rod	Approx. Weight per Rod Pounds	Liss Prices per Rod	Retail Prices per Rod
1346	46	9.3	\$1.07	\$0.65	11.6	\$1.37	\$0.83
1240	40	8.6	.98	.59	10.6	1.25	.75
1134	34	7.8	.90	.54	9.6] 1.13	.68
1028	28	7.1	.82	.50	8.6	1.01	.61

While we hope to be able to maintain all through the sea-son our published prices on galvanized wire fencing, at the same time the unsettled condition of the galvanized wire market makes it advisable for us to state here the prices are subject to change without notice.

DISTANCE BETWEEN



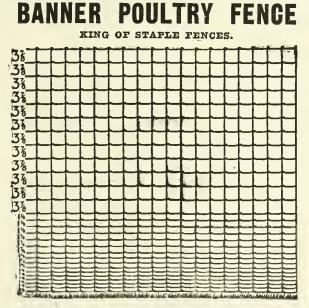
American Close - Mesh Hog Fence erected on American Steel Fence Posts. Cheaper than wood posts and more durable. Send for cata-log.

U. S. POULTRY AND GARDEN FENCE

The illustration at the right shows the U. S. Poultry and Garden Fence, and we also show below the illustration size of wires used in its construction. The U. S. Poultry Fence is built of the same grade of wire as is used in the U. S. Field Fence, but of lighter gauge and the same excellent wrap is used. It is an ideal fence against poultry and small animals. The spacing is graduated from $1\frac{1}{2}$ inches at the bottom to 5 inches at the top, as shown by the illustration and the dis-tance between the stays or uprights is 6 inches. We carry this fence in stock in the styles mentioned below. It is very extensively used as a protection for poultry yards, gardens and orchards. It meets the requirements; therefore it is a great favorite. Furnished regularly in rolls containing 10 rods or 165 lineal feet. rods or 165 lineal feet.

Style No.	Distance Between Stays	Height Inches	No. Of Boxes	Approx. Welght per Rod	List Price per Rod	Retail Price per Rod
2158	6	58	21	12.5	\$1.49	\$0.90
2053	6	53	20	11.8	1.41	.85
1948	6	48	19	11.1	1.33	.80
1635	6	35	16	9.2	1.10	.67

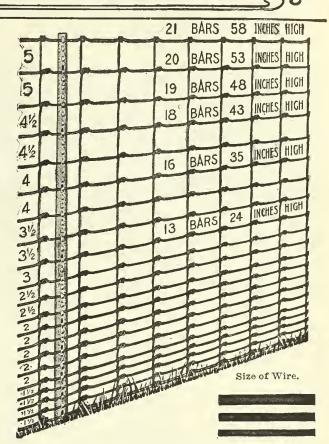
On page 142 we show a line of lighter weight and very closely spaced poultry fences. Don't worry about your fence posts. Buy the American steel posts shown on page 143.



Barb Wire, Ribbon Wire, Twisted Two-Strand Wire, Plain Galvanized and Annealed Wire, Panel Wire. Prices on Application.



The Neverslip Stretcher has no teeth to cut or injure wire. Simple and strong in construction. Has hickory handle and malleable jaw. One man operates it, and both hands are left free to drive staple. Price without staple puller, \$1.00; with staple puller, \$1.25. See page 143 for American Galvanized Fence Posts.



Banner Fence meets the demand for a closely woven fence heavier than the light poultry nettings. The spacing between the six line wires at bottom of fence is only 1½ inches and gradually increased to 3% inches at top, so the essential feature of a satisfactory poultry fence—closeness of mesh—is well taken care of in this fencing. The upright wires or stays run continuously across the fence and lock firmly around the intersecting line wires in a loop knot, forming a smooth, solid joint without any sharp, rough edges. Top and bottom wires No. 15; all other wires No. 17 gauge, hard steel, thoroughly galvanized. While designed especially to meet the urgent and growing demand for a thoroughly good poultry fence, the close mesh of the fabric, together with the wide range of heights, makes Banner Fence particularly desirable for enclosing not only Poultry and Rabbit yards, but for all other places where it is desirable to exclude the smaller and lighter destructive animals.

annua			
Style.	Height.	No. of Bars.	Price per 10-rod Roll.
1624	24 inches	16	List, \$7.10 Our Price, \$4.25
1936	36 inches	19	List. 8.80 Our Price, 5.25
2248	48 inches	22	List, 10.50 Our Price, 6.30
2560	60 inches	25	List, 12.30 Our Price, 7.40
2872	72 inches	28	List, 14.00 Our Price, 8.40
			and the second se

THE LOTT STRETCHER This stretcher is operated by a long lever, and can be used singly, pulling from centre of clamp, or in pairs pulling from top and bottom. All stretching chains are 8 feet in length. We do not furnish levers. List Price, \$7.00; Our Special Price, \$6.25. Fig. 2-Pittsburgh Single Wire Stretcher. List Price, \$1.25.

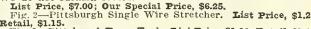


Fig. 2—Fitsburgh Fence Tool. List Price, \$1.00; Retail, \$1.00. Fig. 3—Pittsburgh Fence Tool. List Price, \$1.00; Retail, \$1.00. Fig. 4—Splicer, 15c. each.



PAGE UTILITY FABRIC ATTACK AND A PARTICIPATION A COLOR MORE PROVIDED IN TAPARTER A DATA A MARK STOP a the manufacture of the second s

Used for CORN CRIBS, CAGES. CHICKEN PENS, FRUM BINS, ROOT BINS, STORE ROOM PAR-TITIONS,

TENNIS COURTS, TREE GUARDS. WINDOW GUARDS. SCREENS FOR BALL PARKS.

and an unlimited num. ber of other places where a close mesh and extra strong fabric is desired.

Have you ever realized the large number of uses that a close mesh, heavy wire fabric would be put to if you only had it on hand when you wanted some-thing of this kind right away?

Portable Corn Cribs are very convenient, and in some sections are a necessity. No fabric ever made equals our Utility for this purpose. It goes up like a board and is so well made that it can be used over and over again, year after year.

As a suggestion for round portable cribs, we give the following dimensions:

Fifty feet 48-in. Utility Fabric makes a crib 15 feet in diameter. Capacity 400 bushels.

For permanent cribs this fabric insures the best possible ventilation, saves time and expense in placing on frame-work, costs less than the old methods and will last longer.

Note specifications and price above.

Seventy-five feet Utility Fabric used one section

above another will make a crib 12 ft. in ciam., 8 ft. high. Capacity 400 bus.

Inches.

 $\dot{7}$

 $\dot{7}\bar{2}$

CYCLONE TREE GUARDS Made 6 feet high of heavy galvanized wire, in 9, 12 and 15-inch diameters. Ready for setting up by clasping the hooked ends. Fur-nished with spiral spring, which attaches to tree and prevents rubbing or bruising of the bark. Protects without shading or otherwise injuring the tree injuring the tree. Height, Our Price.

Diameter, Inches, Each. 8 10 12

Cottage" Lawn and Garden Fence



This fence is also used extensively by our This fence is also used extensively by our leading parks and athletic associations for baseball and tennis backstops. Made of heavy steel wire of extra high quality and of the size shown by the illustration. Size of mesh is also shown by the illustration. The three-strand rope selvages contribute much to the strength of the fabric and give it a finished strength of the fabric and give it a finished appearance. After being woven the fencing is given a heavy coating of pure zinc by special process to make it rust-proof for many years. This fence meets all the require-ments of a perfect fence, being strong enough to turn large animals, close enough to turn most poultry, and is practically non-climb-able. It is neat and durable. Put up in rolls of 155 linear feet of 165 linear feet.

Height, inches.	List Price, per rod.	Our Price, Per rod.
24	\$2.00	\$1.20
36	3.00	1.80
48	4.00	2.40
60	5.00	3.00
72	6.00	3.60

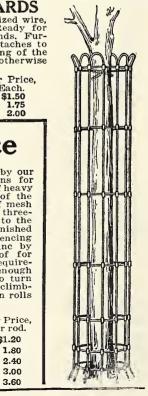
SPECIFICATIONS Mesh.— $1\frac{1}{2}x2\frac{1}{4}$ in.

a a the fit and in the set that Bertan (SAL) a fit is a

A sub-the law wanted and the state of the sub-the state. A

Wires.-No. 121/2 longitudinals. -No. 11 crimped transverse. Rolls .- Standard, 200 lineal feet.

Width.-Standard, 48 inches. Special widths will be made from 3 feet to 4 feet on orders of suffi-cient size to pay for loom changes. PRICE 6 cents per sq. ft.



4-POINT BARBED WIRE TENSIONB O.D. TUBE BRACI ROD & TURN BUCKL 8'0" BETWEEN Poss CONCRETE

CHAIN LI FACTORY FEI

We are offering an improved Factory Fence with chain link woven wire fabric. This type of fence has become very popular where an effective protective fence is desired. The usual fabric is 2-inch mesh, No. 9 gauge wire which can be furnished with either plain barbed top, or with the barb finish and three extra s. ands of four-poin barbed wire above, as shown in illustration. The end and corner posts are 2 inches, line posts 2% inches and gate posts 4 inches outside diameter. The wire used in fabric is a special basic steel galvanized wire and the fabric is attached to the post by an improved method which does not necessitate drilling posts. The bands are all wrought iron, no castings used. The bracing for end and corner posts is of superior character designed on scientific lines. The result is an extra good fence, and we will be pleased to furnish blue prints and photographs showing the detail of this fence construction and submit speci. I estimate on any factory fencing job desired.

> 1 Ô

2.40

addad

GRIFFITH @ TURNER CO

CHEAPER THAN WOOD, AND MORE DURABLE

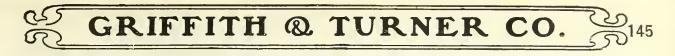
CHEAPER THAN WOOD, AND MORE DURABLE—GALVANIZED INSIDE AND OUT. These posts are neat, strong, durable and easy to erect. They will give you much more and better service than can be expected of wood posts because all being alike in size and quality of material, you get benefit of every post in the fence from year to year, while wood posts rot and decay. The line posts are strong enough to hold up any wire fencing, and furnish all necessary resistance. The end and corner posts are so strong that they will maintain any wire fence made. They are made of high quality steel, heavily coated with zinc, inside and out. They are adapted to all conditions, and should be used wherever a good wire fence is desired, no matter how heavy the wire. To prove the durability of these posts, we point to the fact that they have been in service since 1898 in every section of the United States, and reliable reports indicate that the oldest posts are today aparently as good as when set. **BURNING THE FENCE LINE**—It is simply impossible to clean up farms while the fence lines are grow-ing, a crop of weeds every year, distributing their seeds in all directions and forming a sure and safe haven and breeding place for all sorts of insect pests. Burning the fence line is the logical solution, and if you use American Steel Fence Posts you can burn the fence line at your pleasure. **PRICE LIST SUBJECT TO CHANGE WITHOUT NOTICE.** Spacial Prices

PRICE LIST SUBJECT TO) CHANGE	WITHOUT NOTICE.		
	Length in	a Approximate	Special Prices,	
GAUGE AND DESIGN.	Feet.	Weight in Lbs.	Per Post.	
No. 16 Line Post	5	7.4	\$0.53	
No. 16 Line Post i	61/2	9.3	.60	103
No. 16 Line Post Standard Weight Posts	7	10.	.68	
No. 16 Line Post 1	716	10.7	.75	
No. 16 Line Post	1/2	11.4	.83	
No. 16 Line Post		12.8	.97	63
No. 10 End Post	3	$51.^{12.8}_{51.}$	3.65	5 基金
No. 10 End Post.	••• 6	59.	4.10	E Q3
No. 10 End Post	0	67.		
No. 10 End Post	9		4.58	
No 10 End Post	10	119.	9.12	The second
No. 10 End Post	··· 1 <u>1</u>	122.	9.30	6 73
No. 10 Corner Post.	7	75.	5.42	「「「「「」」
No. 10 Corner Post.	8	86.	5.83	
No. 10 Corner Post	9	97.	6.71	
No. 10 Corner Post	10	195.	14.75	
NO. 10 Corner Post.	. 11	197.	14.88	
No. 10 Hitching Post	6 1/2	27.	2.50	1 62
	0 72	44 B B	2.00	
	•••• 0 ½	46.	2.50	



No. 4-12 in. diameter, 18 in. high. Retail





AXLE GREASE AND OILS





POLARINE OIL

A highly efficient light medium-bodied oil for the protective lubrication of au-tomobile and motor-boat engines. A year-'round lubricant—has a near-zero cold test, and maintains its lubricating effi-ciency in summer heat.

1-gallon cans\$1.15

POLARINE OIL HEAVY

A medium-bodied oil for lubricating automobile engines that have badly-worn pistons; heavy-duty truck engines that

50-gallon	barrels	 	
5-gallon	cans	 	 . 4.50
1-ganon	cans	 	

POLARINE OIL EXTRA HEAVY

A heavy-bodied oil for lubricating au-tomobile engines that have badly-worn pistons; heavy-duty truck engines that have pressure oiling systems; sleeve-valve engines; motorcycle engines, and certain types of tractor engines.

MICA AXLE GREASE



This is the high-est quality of Axle Grease, and contains ground mic a which forms a coating on the axle and makes a perfectly smooth sur-face. After this sur-face is formed you need use only half as much **Mica** as of any other axle grease. \$0.15 m:... Dear

THU DOT	· · · · · · · · • • • • • • • • • • • •
3-lb. Pail	
15-lb. Pail	1.80
25-lb. Pail	2.75

G. & T. CO'S PERFECTION SEPARATOR OIL

This oil is put up expressly for the use of separators, and we recommend it to users of all hand machines, it being a light oil and having a very low cold test.

¹ / ₂ -gallon 1-gallon	can		• • • • • • • •	
	OL ST	EAM CYI	INDER	OIL



POLARINE TRANSMISSION LUBRICANT 'B'

A semi-fluid lubricant for transmission and differentials that are not tight enough to permit the use of an oil.

5-lb.	cans																									\$1.10
10-lb.																										
25 - 1b.																										
$50 - 1b_*$	cans	٠	•	•	•	•	•	•	•	•	•	•	٠	٠	٠	٠	•	•	•	•	•	•	٠	•	•	7.50

HARVESTER OIL

This oil is put up expressly for use on farm implements, Mowers and Bind-ers and all tools on the farm should not be neglected, and care should be used to select an oil especially adapted to the needs of such machines. Many machines have been ruined by using oils that were too heavy or too light.

We strongly recommend the use of this oil,

EUREKA HARNESS OIL



Eureka Harness **Oil** is especially manufactured f o r oiling, blacking and preserving all kinds Oil of leather, especi-ally harness, auto-mobile and carriage tops, etc.

All harness needs a preservative. To neglect it means that sooner or later and will crack break.

1-gal. cans. \$1.25

.95

THRESHER HARD-OIL

Thresher Hard Oil is a high-grade grease, slow to melt; for use in grease cups and grease boxes where a fluid oil cannot be used. It is manufactured ex-pressly to meet the requirements of the corrigutured trade agricultural trade.

pound packages\$0.65 5-pound packages





POLARINE CUP GREASE

An efficient, long-lasting semi-solid lubricant for grease cups and universal joints, ball and roller bearings.

1-lb.	cans													\$0.30
5-lb.														
10-lb.														
25-lb.	cans			•								•		4.25

ALBANY GREASE or HARD-OIL



Every grease cup, axle cap and ball and roller ball and roller bearing on your car should be filled with **Albany** Grease regularly. If you want a finely running car, with no danger of bearings burning out, always use Alalways use Al-bany Grease. In the Spring, Fall and Winter use

No. 0 or No. 1. In the Summer, use No. 3 or No. X to secure best results. Albany Grease is packed in 5-10 pound cans.

COMPOUND NEAT'S-FOOT OIL

This is a combination of Neat's-Foot and Mineral oils in right proportions and properly compounded to prevent the Animal Oil from becoming rancid, thus producing a combination that will greatly improve Harness or any leather where this oil is used.

1-gallon cans\$1.25

HOUSEHOLD LUBRICANT OIL

This very fine oil is put up in small oil cans, ¹/₄-pint and ¹/₂-pint sizes, very convienient to use. It is especially adapted for use on sewing machines, lawn-mowers, hinges, locks, in fact everything about the house that needs lubricating.



The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches diameter on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth, and doing its work far better than the rake. Price, \$38.00. Special Discount for Cash.

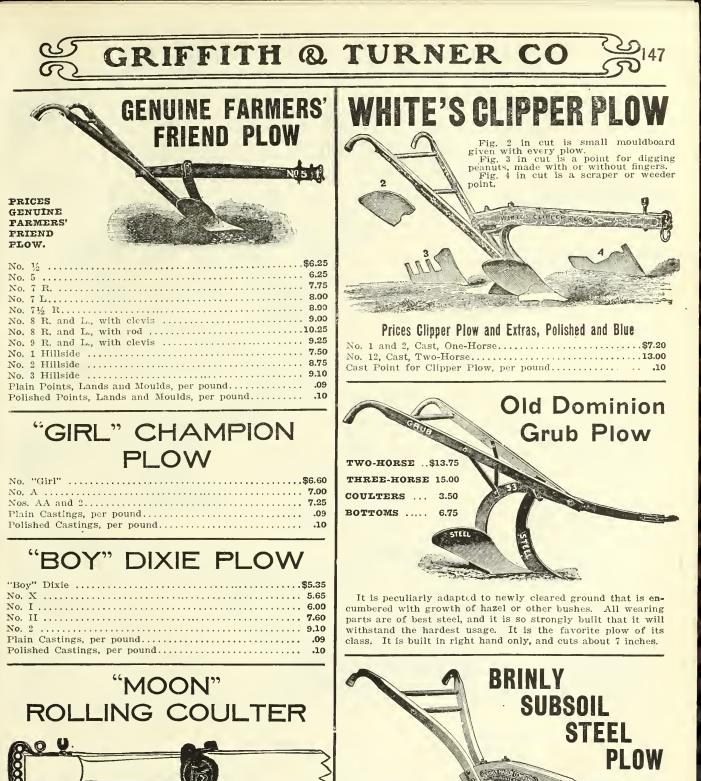
PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Price, per set.....\$1.00

Parcel Post Weight, 7 lbs.

VS 240 HEEL SHEEL TANS NAILS NAILS

A-N=1



Prices:

\$5.20

The shoe presses down all weeds and trash and holds same firmly while being cut by

No. 1-+8-inch disk...

No. 2-10-inch disk..... 6.00

No. 3-12-inch disk..... 7.00

the coulter.

Weight, No. 0, 36 lbs.; No. 3, 52 lbs.

These Plows are made of best material throughout. The malleable iron uprights are unbreakable.

The Mole-shaped Duck-Bill Steel Points make the Plows very light draft. No. 0 is a One-Horse Plow, and the No. 3 is a Two-Horse Plow.

GRIFFITH @ TURNER CO GENUINE OLIVER PLOWS AND GENUINE OLIVER REPAIRS

Don't forget to look for the OLIVER TRADE MARK OD all OLIVER goods; none genuine without it.

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In ordering Oliver Chilled Plows, state whether Wood or Steel Beam, and Right or Left Hand.

Note—A Clevis Wrench and an extra Share are included in prices for Plows fitted with Cast Shares, but Wheels and Jointers are not.

WOOD BEAM.

Prices.

Nos. A-1 and A-2, right hand 9.	50
No. B-N, right hand 11.0	ю
No. 10-N, right and left hand 14.5	;0
No. B-Vineyard, right hand 16.0)0
No. 13-N, right hand 18.0	
No. 19-N, right and left hand 19.0	
No. 20-N, right and left hand 20.0)0
No. E-1-N, right and left hand 22.0	0
Nos. 40-N and 40-X-N, right and left hand 22.0)0
No. 40-XX, left hand 23.0)0

OLIVER HILLSIDE PLOWS

W DI IVRD

Prices

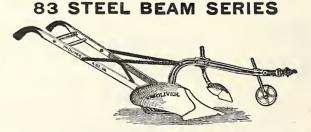
HILLSIDE PLOWS:

No. 52, Steel Mouldboard, Chilled Share, Wood Beam, One-Horse	\$19.5 0
No. 53½, Chilled Mouldboard, Chilled Share, Two-Horse	17.50
No. 57, Steel Mouldboard, Chilled Share, Wood Beam, Two-Horse	24.5 0
No. 524, Iron Beam, Chilled Mould- board, Chilled Share, Shifting	
Clevis, Two-Horse No. 508, Chilled Mouldboard Chilled	21.50
Share, Steel Beam, Shifting Clevis, Light, Two-Horse	24.5 0
No. 509, Chilled Mouldboard, Chilled Share, Steel Beam, Shifting	
Clevis, Heavy, Two-Horse	26700

STEEL BEAM.

Prices.

Goober, R. H. only, capacity 4x7 in	310.00
Nos. A-1 and A-2, right hand	
No. B-N, right hand	12.50
No. 10-N, right and left hand	16.00
	19.00
	20.00
Nos. 40-N and 40-X-N, right and left hand	22.00
	20.00
No. 84-N, right and left hand	21.00
No. 88-N, right and left hand	
No. 22, Chilled, Iron Beam, right and left hand	
No. 3-X, Chilled, Iron Beam, right and left hand	17.50
No. 1, Road and Grading Plow, all steel, with Standing	
Coulter and Gauge Iron or Wheel, right hand only	62.00
The Oliver Subsoiler, best of its kind, with Wheel	25.50



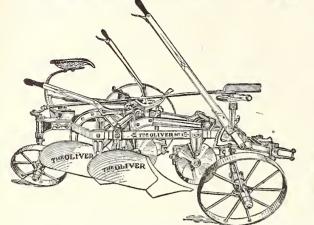
The No. 83 Series is not so old as other members of the Oliver family, but their success has long since been assured, and they have become some of our most popular plows. There is no field in which they cannot be put to work with a feeling of confidence. The superior turning qualities of the mould-board, the keen pointed, high share and the firm construction make them especially adaptable to sandy. gravelly or stony soils. They are capable of a clean, straight furrow, and are always at the will of the plowman. The ohilled landsides, which are straight, are of double flange style.

MOULDBOARDS. No. No. A-1 & A-2, \$235 83 \$5.22 B. & B. Vin, 3.25 84 5.77 10-0 3.75 88 5.77 13 & 13 Vin, 4.50 3 X 5.12 19 4.75 98 5.22 20 5.25 99 5.72 20 5.75 119 5.75 22 5.75 119 5.75 20 5.75 120 5.75 40 XX 6.25 140 5.75 40 XX 6.25 140 5.75 E-0, E-1 5.75 E 5.75 E-0, E-1 5.75 E 5.75 B& B. Vin, 1.10 83 1.50 1.50 13 & 13 Vin, 1.50 98 1.50 20 13 & 13 Vin, 1.50 98 1.50 120 1.50 21.50 99 1.50 120 1.50 3 X 1.50	B 2.75 40 XX 5.77 B Win 3.75 119 5.77 10 3.75 119 5.77 13 4.25 120 5.77 19 4.25 140 5.77 20 4.25 140 5.77 20 4.25 140 5.77 STEEL BEAM STANDARDS. No. A 2.50 20 .44.00 B 2.50 40 4.75 10 4.00 83 4.75 13 4.00 83 4.75 14 4.00 84 4.75 19 4.00 83 4.75 19 4.00 84 4.75 19 4.00 84 4.75 19 4.00 84 4.75 19 4.00 84 4.75 19 4.00 84 4.75 19 4.00 84 4.75 19 4.00 84 4.75 19 4.00 84 4.75 19 10.00 84 4.75 10 10.00 81 4.75 10	With hever want to do without it.No. D—Chilled, for one-horse plows.\$2.75No. 2—For two and three-horse plows.3.50Jointer Points, chilled, all numbers25Jointer Mouldboards.125Jointer Mouldboards.125One-horse Jointer Holders150One-horse Jointer Standards60Two-horse Jointer Standards90Note—In ordering, say whether for wood or steel beam, right or left-hand plows.COMBINATION PLOW REPAIRS.Numbers. $protectrestringprotect$
No. 22, 1ron 4.75	No. B Vineyard 2.25 No. 98-99-119-120 and 140 2.00	Nc Nc ard. Nc side dard ares side ed ares side. Nc ares side. Nc ares side side. Side. Nc ares side.
STEEL BEAMS. No. Vineyard	No. 19-20-E, 40 and 40 XX. 2.00 No. 22, with Rub Irons 2.50	
Nos. A, B, 10, 13 & Goober 4.25 Nos. 83, 84	SHARES.	52 $[\dots, [\$4.75]$ $\$6.00$ $\$1.00$ $\$1.00$ $\$2.00$ $\$2.50$ $\$.35$ $\$.20$ $\$1.35$ $[\dots, 1.35]$
No. 40 5.25		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
WOOD BEAM CLEVICES. Marked "A," for One-Horse Plows, Wood Beam	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	58 4.30 1.00 1.15 1.50
		No. A3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2015 2015 2015 2015 2015 2015 2015 2015	Wrenches .\$.20 Twc and three-horse
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	PLOW BOLTS
CLEV Nos. A3, B3 and 13 All other numbers, 2-horse Shackles HANI Nos. A3, B3 and 13, complete, p	ISES. \$.35 .50 .85 .15 DLES. eer set\$1.75	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
All other numbers, complete, r	er set	3¾ 3.00 6c. 5.50 7c. 4 3.10 6c. 5.70 7c. For Carriage and Machine Bolts, see Page 221. 7c. 7c.

8

NO. 1 GANG PLOW OLIVER

150



The beams are landed at an angle to the furrow to provide a center draft. This construction distributes the strain evenly along both beams and entitles the plow to the merited and distinguishing name of "The Center Draft Gang Plow." It gives a natural draft and makes effective every ounce of mental in the beams mental in the beams.

mental in the beams. The same good reasoning prevailed over other features of the plow. It was realized that constant passing of gritty soil over the plow bottom would necessarily wear, but to over-come this to a great degree the plow bottom has been pre-pared with shapes that offer a minimum amount of resistance. It plows a uniform depth in uneven ground. Is raised or lowered with little or no exertion. Is adapted to any soil and every condition of plowing. Turns to the right or left while plow bottoms are in ground. Can be handled as easily as a wagon. Is light in draft and perfect in work. In opening land a square and level furrow is turned.

perfect in work. In opening land a square and level lurrow is turned. Wheels are large and the plow runs steadier in consequence. Is fitted with dust and sand-proof boxes and caps. Plows two to ten inches in depth as desired at will of operator. **No. 1—Gang Plow**, Steel or Chilled Mouldboard. Chilled Shares, Combined Rolling Coulter and Jointer, Weed Hooks, Four-horse Evener and tongue. Our Special Price, **\$125.00**. **No. 1—Gang Plow**, same as above, but with Jointers only. Our Special Price, **\$120.00**.

CHATTANOOGA SULKY PLOW

Nos. 45-46-95 and 96.

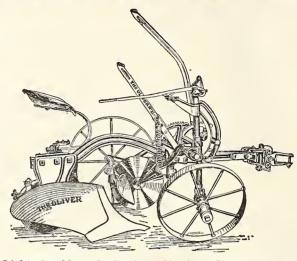
The plow is light and very attractive and is so easily han-

Nos. 45-46-95 and 96. The plow is light and very attractive and is so easily han-dled that either an old man or a boy can operate it. The seat is low, which makes it very convenient to get off and on the plow without danger. The plow is very short, which enables it to penetrate the ground very quickly when out of the ground. This is an ex-cellent feature in rough land. The plow is so short and easily handled that satisfactory plowing can be done in small fields; in fact, any kind of plowing can be as satisfactorily done as with a walking plow. Why walk and plow when one can ride and do more and bet-ter work without increasing the draft on the team? The ex-tra weight of the operator is carried by the wheels and rolling in git clean. It works with less friction than can possibly be accomplished with a drag landside. The extra weight of the operator is an advan-tage in hard ground. The levers are always in convenient reach of the operator, and on right hand plows are all operated by the right hand. We recom-mend right hand plows on this account. A balance spring is attached to the land-side axle, which adds greatly to the comfort of the operator when going over uneven ground. The wheels are so constructed as to use hard oil or grease and have removable boxes

ground. The wheels are so constructed as to use hard oil or grease and have removable boxes and dust proof caps. The front furrow wheel can be adjusted to suit any width of furrow. The usual equipment, such as jointers, rolling coulters, or rolling coulter and jointer combined and weed hooks are furnished as desired. desired. With

With Chilled Bottom, 3-Horse Hitch and Weed Hook. No Tongue.

With Rolling Coulter and	List Price.	Our Special Price.
Jointer combined	\$80.00 77.00	\$75.00 72.00



OLIVER SULKY PLOW No. 11

Light, durable and effective. Simple and novel device for turning. Plows the most difficult soils and does it well. Can be used with or without tongues. Depth easily regulated. Turns square corners without lifting out of the ground. Made in both right and left hand. **No. 11-Sulky Plow**, Steel or Chilled Mouldboard, Chilled

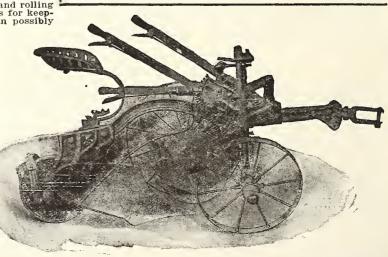
Share, Rolling Coulter and Jointer combined, Weed Hook. less Tongue and Neck Yoke. Our Special Price, \$75.00.

No. 11-Sulky Plow, same as above, but with Jointer only. Our Special Price, \$72.50.

Oliver Reversible Sulky Plow No. 23



This reversible sulky plow is more easy to manipulate than any

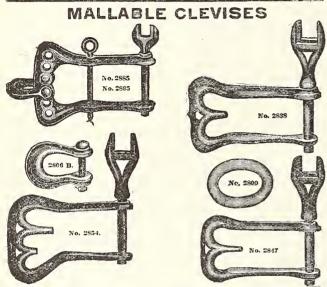




Rudders, each, List, \$1.10. Our Special Price, 75c.







No. 2885.—2¼-in. beam; 2%-in. from center of wrench to center of pin; 6¾-in. extreme length; 6 holes; shackle and pin. For use on No. 5 F. F. and similar cast plows. List price, doz., \$9.60. Retail price, each, 50c.
No. 2895.—2½-in. beam; 3%-in. from center of wrench to center of pin; 7½-in. extreme length; 6 holes; shackle and pin. For use on No. 7 F. F. and similar cast plows. List price, doz., \$10.50. Retail price, each, 55c.
No. 2854.—2-in. beam; 5¾-in. extreme length; 3-in. from center of wrench to end of beam. Patent wrench. For use on Girl Champion and similar cast plows. List price, doz., \$4.50. Retail price, each, 30c.
No. 2838.—2-in. beam; 6½-in. extreme length; 3%-in. from center of wrench to end of beam. Patent wrench. For use on Southern cast plows. List price, doz., \$4.50. Retail price, each, 30c.
No. 2838.—2-in. beam; 6½-in. extreme length; 3%-in. from center of wrench to end of beam. Patent wrench. For use on Southern cast plows. List price, doz., \$4.50. Retail price, each, 30c.
No. 2847.—2-in. beam; 5%-in. extreme length; 3-in. from

No. 2847.—2-in. beam; 5%-in. extreme length; 3-in, from center of wrench to end of beam. Patent wrench. For use on "Boy" Dixie and similar cast plows. List price, doz., \$4.50.

Retail price, each, **30c**. **No. 2855.**—2-in. beam; 3%-in. from center of wrench to cen-ter of pin; 6%-in. extreme length. For use on Hampton Boy and Hampton No. 1. List price, doz., **\$5.70**. Retail price,

and Hampton No. 1. Erist price, doz., \$5.70. Retail price, each, 40c.
No. 2806 B-End Clevis.—¾-in. inside measure; 3-in. extreme length. List price, doz., \$2.50. Retail price, each, 15c.
No. 2800—Plow Link.—3-in. long, 2½-in. wide. List price, doz., \$2.50. Retail price, each, 15c.

-

E	Extra for Ste	el	Bea		Syra	acu	se	PIO	WS
Nos.	No. Horse.	Common shares.	shares. Cutter	Cast lands.	Chilled moulds.	Beams.	St <mark>an</mark> dards.	Slip sh <mark>ar</mark> es.	Slip points.
$ \begin{array}{r} 7 \\ 8 \\ 15 \\ 21 \\ 35 \\ 35 \\ \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.85 .90 .90	$ 1.00 \\ 1.05 \\ 1.05 $	$1.60 \\ 1.50$	5.75 6.25 5.75	$6.50 \\ 7.50 \\ 6.50$	$ \begin{array}{c} 6.50 \\ 7.50 \\ 6.50 \end{array} $	$1.05 \\ 1.05$	$.20 \\ .20$

Jointers, complete, chilled, \$3.50. Wheels, complete, \$1.75. For Heavy Shares, add 15c. each.

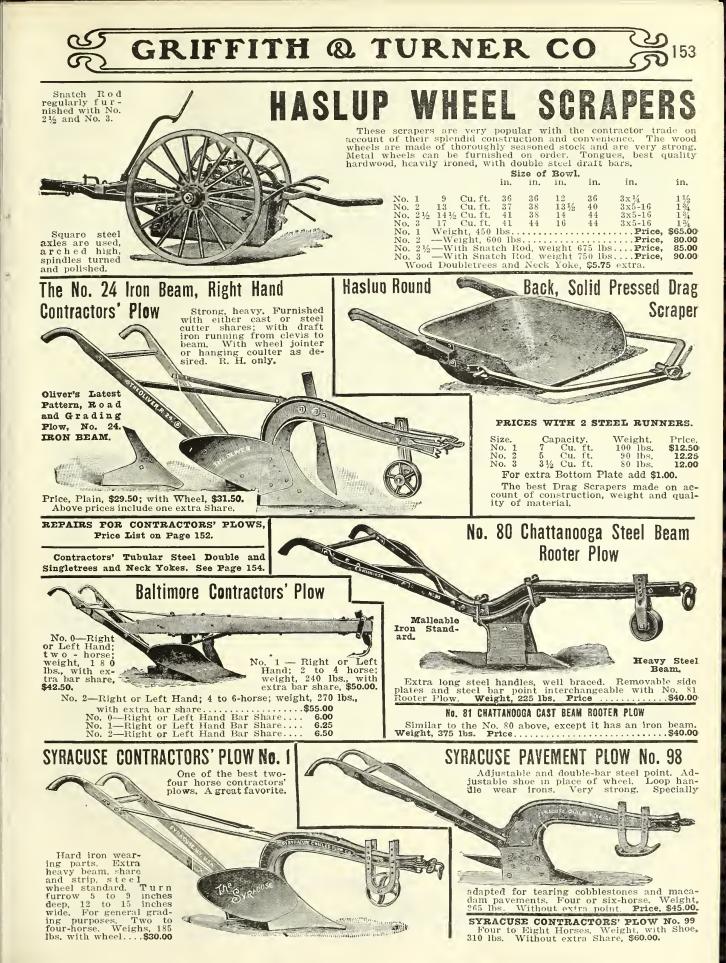
Jointer Points for any of above Syracuse Plows, 25c. Syracuse Base Bolts, 6c.

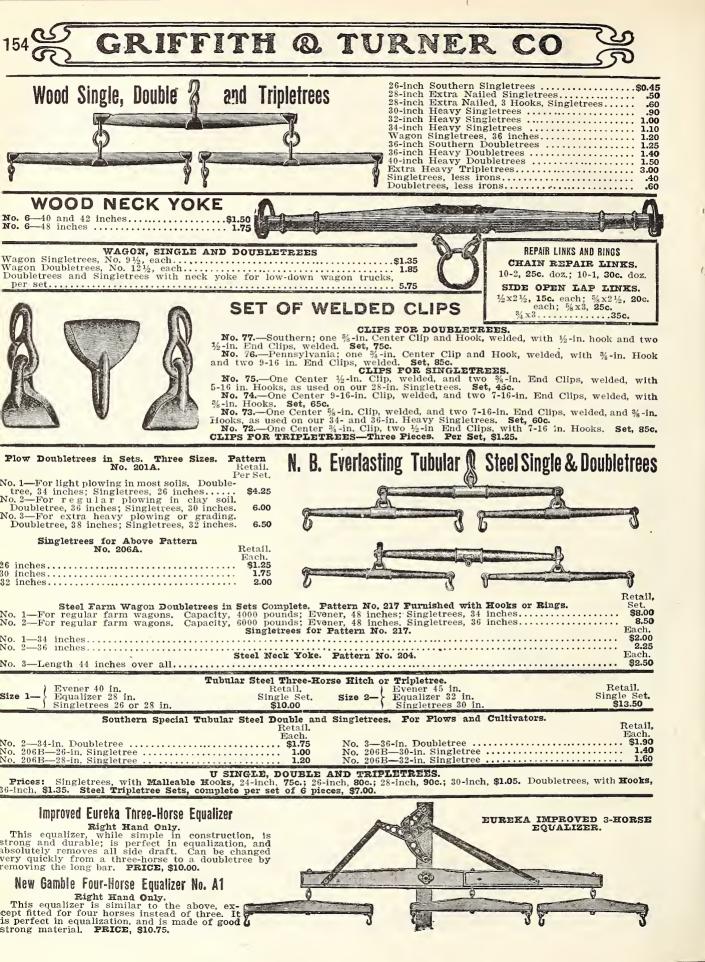
			Repa	airs 1	or 1	Wia	rd	Plo	ws			
	Nos.	K	Cind.	No.	Horse	. –			Price.			
1	62	10 11				12	hares	-	ands.		Moulds.	
I	13	R. H		$1 \operatorname{Hor}_{1}$	se		\$.50 .80		60		$.50 \\ .50$	
	$10 \\ 19$	••	"	1 ")	.80		1.10	3	.25	
	16	"	"	2 "			.85 .85		$1.35 \\ 1.35$		$.25 \\ .25$	
1	$\frac{18}{26}$		" • •	2 " 2 or 3	Hors		.85 .85		$1.35 \\ 1.35$		$.75 \\ .75$	
I	$ \begin{array}{c} 261 \\ 27 \\ 28 \end{array} $	2 "	"	2 Hora			85		1.35		.50	
	$\frac{27}{28}$	L. H	. "	2 "	• • • • •	•••	.85 .85		$1.35 \\ 1.35$		$.50 \\ .75$	
	$16 \\ 126$	Hills	ide	1 " 2 " 2 or 3 2 Hor 2 " 2 or 3 2 Hor 2 " 2 "			1.05	1	1.00	.) 5	5.25	
l	$126 \\ 130 $	"		2 "			$1.05 \\ 1.05$.50	
		Re	pairs	for	Sai	144	1045-011	nd	Plo			
1			pana	EQ1.	000				1 10	443		
1								sets ete.		ns.		
L								Ψ	Standards.	Wood Beams.		
ł		es.	No. H	orse.	es.	<i>v</i> i	ds	np	daı	B	ທຶ	
	Nos.	Shares.			Shares.	Lands	Moulds	Handles, compl	an	00	Shins.	
1	ž										Sh	
i		Solid	1 H. R.	H. only	$^{\$}_{.45}$	\$.60 .75	$$1.65 \\ 2.40$		$^{\$2.10}_{2.25}$	\$1.75 2 00		
	2	44 44	2 Horse		.55	1.15	3.50	1.90	3.00	2.25		
	$\frac{2\frac{1}{2}}{3}$	"	2 "	• • • • • •	$.60 \\ .65$	$1.25 \\ 1.35$	$4.00 \\ 4.50$	$2.00 \\ 2.00$	3.75	$\frac{2.50}{2.50}$.30 .30	
	$\frac{4}{10}$	**	2 "		.70	1.50	5.25	2.25	4.50	3.00	.40	
	15	**	2 Horse 2 " 2 " 2 " 2 " 2 " 2 " 2 "		.80 .85	$1.50 \\ 1.50$	5.75	$\frac{2.25}{2.25}$	$5.00 \\ 5.00$	$3.25 \\ 2.25$.40	
l	$\frac{3}{4}$	Slip	2 **	••••	.75	$1.35 \\ 1.50$	$ \begin{array}{c} 4.50 \\ 5.25 \end{array} $					
	10	46	2 "	•••••	.90	1.50	5.75	•••••				
5	15	44	2		.95	1.50						
	Coul	inters.	, comple 5.25. H	te, \$3.50 andles.	single	neels, e, all	, com numb	plete, ers, 1	\$1.75 90c. ea	n Ro ich. (Other	
	extra	as not	named Coulters,	here can	n be f	urnis	shed;	price	on a	pplica	ation.	
-	stan	1	and the factor of	and St. Mar. South	and starting	· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1	A v 6- 10-	- +C+ + + -		-	
	Repairs for Syracuse Plows											

		110	Pana	101		ALC		361	10	84 3		
Nos.	1		Beam Plows.	Cutter shares.	Shares.	Lands.	Moulds.	Beams.	Standards.	Shins.	Slip shares.	Slip points.
$^{44}_{.50}$	R. H.	only	1 Horse			\$.75	\$2.25	\$2.00	\$2.00			\$.20
.50	"	66	1. "		.45	.85	2.50	2.50	2.50		.60	.20
51	"	**	1 "		.50	1.10	3.25	2.50	3.00		.65	.20
52	**	**	1 "		.55	1.20	3.75	2.75	3.50		.70	.20
53	**	**	1 or 2 H		.60	1.25	4.50	2.75	3.75		.75	.20
54	"	66	Light 2.	.85		1.35	5.00	3.00	4.00	.50	.85	.20
55	"	66	Med. 2.	.90	.75	1.40	5.25	3.00	4.25	.50	.90	.20
56	**	**	Reg. 2	.95		1.50	5.50	3.00	4.50	.60	.95	.20
57	"	**	2 or 3 H		.85	1.60	5.75	3.00	4.75	.60	1.00	.20
	L. H.	66	2 Horse	.90	.75	1.40	5.25	3.00	4.25		.90	.20
96	**	**	2 "	.95		1.50	5.50	3.00	4.50		.95	.20
97	**	**	2 or 3 H	1.00	.85	1.60	5.75	3.00	4.75		1.00	.20
501	66	66	1]	.90	1.60	5.75	3.00			1.05	.20
502	66	**			.85	1.50	5.50	3.00	4.50		1.00	.20
503	**	**				1.40	5.25	3.00	4.25		.95	.20
	R. H.	6G	1			1.60	5.75	3.00	4.75		1.05	.20
602	66	**				1.50	5.50	3.00	4.50		1.00	.20
603	**	66			.80	1.40	5.25	3.00	4.25		.95	.20
	Repairs for Syracuse Contractors'											

repairs Plows

Nos.	For Contractors' Plows, see page 245	Steel shares.	Moulds.	Beams.	Standards.	Shins.
Contraction of the local division of the loc	Heavy Cast		\$4.50 5.75	\$15.00 7.50	\$15.00	
Ex	tras for Iron	Bear	ns S	yracu	se Pl	ows
Nos.	No. Horse,	Common shares.	Cutter shares.		Beams.	Slip points
3-78 2-78 1-78 10-78 20-78 30-78	R. H. only 2 Horse """2"" ""3"" L. H. only 2 " 3"" 3""		$\begin{array}{c c} .95 & 1. \\ 1.00 & 1. \\ 1.05 & 1. \\ 1.00 & 1. \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c cccc} \$6.00 \$ & .9\\ 7.00 & .9\\ 7.50 & 1.0\\ 8.50 & 1.0\\ 7.50 & 1.0\\ 8.50 & 1.0\\ 8.50 & 1.0\\ \end{array}$	$\begin{array}{c c} 0 & .20 \\ 5 & .20 \\ 0 & .20 \end{array}$







STANDARD

STIMPSON STEEL PITLESS WAGON SCALE

The Stimpson Steel Pitless Wagon Scale is High Grade in every particular and has many exclusive improvements not found in any other type of Pitless Wagon Scales. We have adopted the di-rect steel lever construction which em-bodies many of the valuable features of the Stimpson High-Grade Pit Wagon Scale with the improvements and advantages of a Pitless Scale. This Scale is provided with combination three-bar solid brass beam, carefully graduated to full capacity of scale, thus requiring no loose weights to get lost or out of seal.

out of seal.

 out of seal.

 The ends of the frame are each made from a heavy steel channel beam connected by tubular steel cross-pieces, secured at each corner by a strong bracket bolted to channel beam with three bolts and lock nut on tubular steel cross-piece which passes through bracket, thus making a very strong corner connection.

 The corner brackets also support and hold in place the heavy hardened loops that support the steel levers, thus providing a very strong support for each lever on which the 1 Beams and platform with load are carried.

 The levers are held in the heavy hardened loops by best tempered tool steel pivots and the Steel I Beams are also held in place by hardened bearing feet supported on levers by best tempered tool steel pivots, each one being secured in beam by hard friction steels which pass through beam preventing the loop from chafing or binding against beam. The beam pivot loops are carefully tempered. The beam is equipped with a balance ball to balance off the weight of the platform as it may vary from accumulation of ice, snow, etc., and also has a counterpoise for greater variations in weight.

 The Beam Box is of selected one-inch tongued and grooved lumber, painted with two coats of best lead paint, with a heavy 1½-inch molded top. It is secured by bolts or screws to short posts or cement foundation. Beam Box Door is provided with heavy angle flanges, same being fastened by bolts or screws to short posts or cement foundation.

 No. 122-Steel Pitless Wagon Scale, 8 ft.x 14 ft., capacity 5 Tons.
 \$140.00

OTHER SIZES ON APPLICATION.



O. K. Champion Potato Planter No. 25

U. K. GRAINPION POLATO PLANCE NO. 25Has a seed-dropping device consisting of the endless-eup system, one which is recognized as the most accurate. The seed is picked up and device with pockets for the reception of the seed pices, where any correction necessary can be made, insuring absolutely one pice to other will plant absolutely 100 per cent. Correct. The cups are the distances of dropping are 12, 15 and 18 inches.The distances of dropping are 12, 15 and 18 inches.The distances of seed construction, fitted with a sliding bottom, which causes a steady feed, and a guard permits the cups to single out the seed picces, no matter what the shape may be. Two shoes are used for making the furrow. The first opens it deeper, spreading a thin coat of dirt over the fertilizer so as not to allow same to come directly in contact with the potatoes. The discs are 14 inches.The base at the rear enables the operator to be in position

not to allow same to come directly in contact with the potatoes. The discs are 14 inches. The seat at the rear enables the operator to be in position where he can oversee the entire work and gives him access to the levers, one of which raises or lowers the shoe and discs; the other throws the seed feed in or out of gear. Whenever regular sized pieces and a steady team are used it is not al-ways necessary to use two men on this planter. The driver can operate it from the rear seat. This machine can also be converted into an automatic planter. This planter embodies all requisites necessary to make it a durable machine, and in construction it is very simple. Weighs with fertilizer attachment about 350 pounds. S205.00

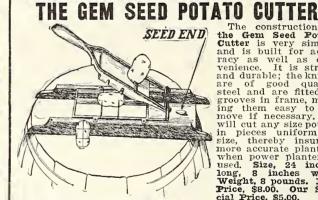
List Price ..\$205.00 120.00



This is a tool that has won great favor with the potato growers everywhere. It is an easy-running tool, and one that saves a great deal of time. It throws all of the potatoes out of the ground without cutting, and leaves them clean and whole on top of the ground. Has extra heavy steel beam, with high arch to prevent clogging. Long adjustable han-dles. Double gauge wheel following the furrow on either side of the hill, and adjustable gauge wheel running on the solid ground in the rear.

List	Special.
Price.	Price.
Digger with Double Front Gauge Wheel\$30.00	\$18.75
Digger with Single Front Gauge Wheel 26.00	16.25
HITCHCOCK POTATO DIGGER	0111

	Uu
List	Special
Price.	Price.
Hitchcock Digger\$20.00	\$12.50
Steel Point 2.90	1.80
Beam 9.60	6.00
Cast Head 4.80	3.00
	the second s



The construction of the Gem Seed Potato Cutter is very simple, and is built for accu-racy as well as con-venience. It is strong and durable; the knives are of good quality steel and are fitted to grooves in frame, mak-ing them easy to re-move if necessary. It will cut any size potato in pieces uniform in will cut any size potato in pieces uniform in size, thereby insuring more accurate planting when power planter is used. Size, 24 inches long, 8 inches wide. Weight, 8 pounds. List Price, \$8.00. Our Spe-cial Price, \$5.00.

Acme Tubular Hand Potato Planter

Abilic lubuldi fidilu fuldiu fuldiu fidilici THE LIGHTEST TUBULAR PLANTER MADE. Its spring-closed jaws are especially designed to enter the soil easily, yet open wide enough to drop the largest seed. The dropping lever or dump is adjustable for any depth of planting. The con-veyor tube is galvanized irou. Our Special Price, \$2.25; List Price, \$3.70. Directions for Using.—Walk erect, plunge planter into the soil, press forward as you with-draw it; seed is left in moist soil, not dry, as is usually the case when seed is dropped by one man and left to be covered by another.

"Acme" Hand Potato Planter

This is similar to the above, except it is not tubular, but a stick planter. We do not carry these in stock, but can furnish them direct from the factory. Same directions for working apply on this as on the "Peerless." Our Special Price, **\$1.75**; List Price, **\$2.40**.

over



over all competi-tors. Its construc-tion embodies all the cssential feat-ures which make it absolutely reliable. It is built with a view to simplences, doing away with all unnecessary wear-ing parts, which accounts for its easy draught. Two horses will do the work with case. There is no chain drive to cause friction and wear; only two gear wheels are employed on the entire machine. The shovel is 20 inches wide, scooping up that width of ground and pota-toes, depositing them on the elevator separating apron, whose links are al-ternately raised and lowered. These run over a sprocket agitator, which keeps the apron continuously agitated up and down, causing the separation to be done with the least possible power requirements and giving the machine a good separating capacity. The potatoes then fall upon the rear shaking fork rower, thoroughly cleaning any remaining dirt from the potatoes, and depositing them in a row of about 12 inches behind the machine. **ALL PRICES IN CATALOG SUBJECT TO CHAT**

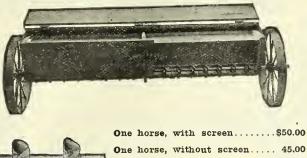
O. K. Champion Potato Cutter

that Cuts potatoes sizes in exact sizes that are best suited to plant with any power planter. To cut by hand means all shapes, both large and small. Will cut five to scven bushels per planter can plant correctly unless the tubers are. the tupers cut an exact size. Planting large sized seed inthe tubers are sures better a



sures a better stand because there is more nourishment fur-nished the young plant than can be had from small seed. Many times it has been noticed that many potatoes will be up three or four inches be-fore others break through the surface, and fre-quently they never show themselves, which failure is placed to bad seed, when really it is owing to too small seed. List Price. \$12.50; Our Special Price, \$8.00.

GRITCO C BROADCAST LIME DISTI



One horse, without screen..... 45.00 Two horse, with screen..... 55.00

The rapid increase in the use of lime demands a machine to apply these materials which is moderate in cost and accu-

to apply these materials which is moderate in cost and accurate in its distribution. This distributer is designed for broadcasting lime and ashes, and it will distribute in drills or rows when supplied with an extra feed plate especially punched according to the width of the row. The amount of lime this machine will sow to the acre depends somewhat on its weight per bushel, as well as its condition, but the 13 notches of feed opening average to spread from 250 lbs, per acre at the lowest notch to 3550 lbs, at the highest notch. highest notch.

Special features make this distributer lead all machines of its kind and work where others fail.

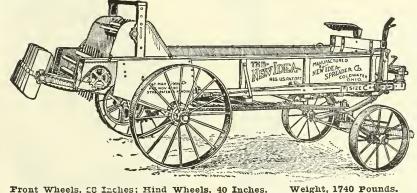
The Agitator, or beater, in bottom of the hopper revolves only when the load is being spread. It does not turn con-stantly.

Revolving Prongs with 3½-inch spaces placed directly over the feed openings make a forced feed that is most satisfactory. **The Feed Plate** is of short sections of cast iron, and the slide plate directly beneath it is of steel, separated from the feed plate by liners.

Two horse, without screen..... 50.00 Hand Shaker (at the driver's right hand) is used only when lime is damp or does not fall freely into the agitator. It helps even spreading, which is a great feature. The Shaker Board hangs from the bottom of the hopper, and is controlled by a chain, holding it at any desired angle and

broadcasting the lime evenly. The Wind Break hangs from the shaker board, free to swing in any direction if an obstruction is met, and prevents wind sweeping under the machine and carrying the lime away.

NEW IDEA MANURE SPREADER



Front Wheels, 28 Inches; Hind Wheels, 40 Inches.



This cut shows **Our Special Fertilizer Distrib-uter**, which has become very popular. It has a positive force feed, and will sow all kinds of fer-**tilizer**. It is made of the best material, and is practical. Our Special Price, \$25.00.

Is the only high-class spreader on the market to-day, because it combines all the features necessary to make a good spreader. There are plenty of manure unloaders on the market, but the **NEW IDEA** is the only **PULVERIZER** and **SPREADER**. No gears to wear out and break, and no unnecessary noise, as a chain, when oiled occasionally runs practically noiseless. Competitors will tell you that they gain power by the use of gear wheels. Any authority on power will tell you that the more direct you can drive a machine the less power direct you can drive a machine, the less power it will consume.

THE NEW IDEA

Weight, 1740 Pounds.
The range of feed can be instantly changed whilst the machine is no wear in driving to and from the field. This cut also shows the reach or coupling used, which makes it impossible to strain the bed—a very common occurrence on other machines.
The range of feed can be instantly changed whilst the machine is and can be stopped entirely. As the feed and drive work independently of each other, if you get to a place where you do not wish to spread, keep your machine running and merely shut off the feed.
When the manure leaves the two cylinders it drops on the rapidly rotating distributer at the rear end, which, through its speed and its obliquely set paddles, breaks up any bunches that might pass over, and spreads the manure out in a wide and even spread, fully the width of the wheel tracks. Even, not thick in the center and thin on the edges. the edges

the edges. Spreading the width of the track makes it unnecessary to drive over the spread manure with the New Idea, a necessity with all others. This feature alone is worth the price of the machine, and when once seen in operation will convince the most skeptical buyer. The Conveyor of the New Idea is made out of two strands of No. 77 malleable chain, fastened to heavy channel steel bars, and is endless, and runs over a solid bottom, something similar to the bottom of a wagon box. It lasts a lifetime with ordinary care. Traction lugs are furnished with each machine. This is another New Idea device. Very efficient and easy to remove when no needed. The rear wheels have square holes punched in them, and lug bolts are inserted and clamped tight with a nut.

BOTH WHEELS DRIVE.

The rear axle revolves in long journals, and is fitted with ratchets on each end, which engage in the notches in the hub of the rear wheels. Very simple and durable.

Prices of Three-Horse	New Idea	Manure Sp	readers-75-	Bushel Capa	acity, with
Three-Horse	Eveners				\$200.00
Additional	for Top Si	des			3.00
Write for	Special Cire	cular of NE	W IDEA SP	READER.	



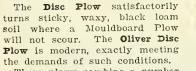


"Gritco" Combined Disc Corn and Cotton Drill No. 5

Double Discs are used to open the furrow. Discs are mounted upon chilled journals, which are attached to the tube that receives the seed. The convex sides of the discs press open the furrow as the Drill is moved forward, making a seed bed as perfect as could be desired. The seed, after dropping from the plate in full view, is conducted down through the cast spout or tube and deposited between the discs at the bottom of furrow. Every seed is in plain view of the operator until it reaches the bottom of the trench. The operation of the discs in opening up the furrow is very satisfactory.

The device for sowing cotton seed with the "Gritco" Combined Corn and Cotton Drill No. 5 is interchangeable in the hopper with the regular corn dropping mechanism, making a combination drill of unquestioned merit. There is ample provision, by means of projecting ligs and wrought standards, for thoroughly agitating the seed in the hopper, thus assuring proper filling of the cells.

Plain Planter	\$17.50
Planter with Fertilizer Attachment	21.90
Cotton Sowing Device	3.75



Planter with

These plows combine a number of typical Oliver features and improvements that makes their work excel in difficult plowing conditions. These include disc adjustment to three positions without the use of wedges. Crank motion instead of sliding axle in the rear wheel construction; accessible, powerful levers assisted by heavy coil springs, adjustable mouldboard shape scrapper that turns and crumbles the soil, adjustable hitch and a well-braced, rigid frame

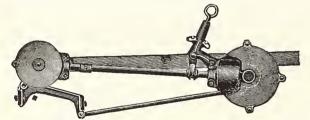
> No. D31, 24-inch Discs, \$85.00. No. D21, 20-inch Discs, \$55.00.

Fertilizer Attachment showing turn over Fertilizer Hopper.

OLIVER DISC PLOW

2. Automatic distribution of wire on 3. Automatic distribution of wire on reel—another labor- and time-saving

GRIFFITH @ TURNER CO



Showing the Shaft Drive and Quick Change on the No. 7 Planter, to plant 2, 3 or 4 grains in a hill without changing the plates. This great convenience saves time, and allows you to plant the different number of grains in different portions of the field without stopping.

	List Price.	Special Price.
No. 7 Gear Drive Plain Planter with Check Rower, 80 rods Wire, Edge Drop only	\$134.40	\$80 . 00
No. 7 Gear Drive Plain Planter, with Check Rower, 80 rods Wire, with both Edge and Flat Drop	136.70	82.00
No. 8 Plain Planter Drill Drop only without Check Rower	121. 0 0	72.60
For Disk Planters add to above	4.50	3.00
Fertilizer Attachment for any of the above add	35.00	20.00



The Janesville Planter is made adjustable in width 3 feet to 4 feet. This corn planter was developed so as to retain a high average per cent. of number of kernels that one desired to plant in a hill, and can be instantly changed from 2, 3 or 4 kernels. 1. Convertible drop—edge or flat. This feature was devised to meet the condition where a farmer on occasion may not care to take the time to select his seed corn. 2. Automatic throw-off to wire sim-plifies the operation of machine. red-another labor and timesaving 4. Gear drive planters with adjust-able drog. The development is attached to raising automatic in the operation, or set so that operator releases wire at his will. Through the improved construction it hill drop to drill drop without leaving his seat, or even without stopping team. A combined foot drop and drill drop at-tachment is placed to rocker shaft, my this lever by the center, to lock valves in planter opening, and throwy clutch into gear so it will run continu-aus a foot drop simply do not press the lever down so far. Waves on Janeesville Planter are so placed that there is no possibility of mixing the hills. Upper valve is located so close trash that may get into it. The valve movement ensures your being always in check whether you drive fast or slow, and pross will be straight. The force feed takes care of increased momentum in fast driving. Change from edge drop to flat dropy tastly, without stopping team, 2, 3 or 4 kernels may be dropped to a hill by operating small hand lever within easy reach. A support running from rea axis to from the throws machine out of gear when raised at ends to turn around.

SEED CORN.

HAFT DRI

On page 16 you will find listed with prices the finest vari-eties of Sweet Corn that can be procured. Our Field Seed Corn listed on page 42 is selected with the utmost care, and it will pay you to buy your seed from us, as the seed is a very important factor in the yield of the crop.

CORN PLANTER RUNNER

In ordering Planter Runners always state, as near as pos-sible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole and size of bend.

RIZE OF	UNNERS FOR SINGLE ROW PLANTERS.	Our
C.Section		st Special ce. Price.
	Ea For Hench & Dromgold	ch. Each.
V. Sala	Daisy\$3.	
	For Hoosier	
	For Farmers' Friend 3.	50 2.50
1	For Evans 3. For Black Hawk 3.	
	J. I. Case 3.	
		-
	List	Our Sp'l
	Price	Price
For Ja	For Double Row Planters. Per Pr nesville, Nos. 1, 5, 7 and 8	Per Pr. \$5.00
" Bl	ack Hawk, No. 1	5.00
. DI	ack Hawk, No. 4	5.00 5.00
" De	eere, No. 8	5.00
" De	eere, No. 9	5.00 5.00
" J.	I. Case	5.00
	vans' Steel Frame	5.00 5.00
L L 1	vans' Wood	5.00
" Su	perior	5.00
	oosier, No. 10	5.00
		5.00
" Ti	oosier, No. 11	5.00 5.00
" Ti " Ti	ger, No. 4	5.00
" Ti " Ti " Bu	ger, No. 4	5.00

ETON

This Husker will do the work. It is no experi-ment. It is superior to all others. We will be pleased to send anyone names of representative farmers who are using the Appleton Husker and will testify in its favor. We know that most Huskers have failed to give satisfaction. The Appleton Husker never fails to measure up to the expectation of purchaser. Write for interesting Husker Catalogue.

We guarantee that under the same conditions the Appleton Husker will do more and better work than any other Corn Husker on market; that it is simpler and requires less power. It is easier and safer to feed.

Capacity of Appleton Corn Huskers and Power Required.

Size.	Horse-Power.	Capacity Per Hour.
No. 14 No. 18 No. 24 No. 32	6-10 8-12	12- 25 Bushels. 40- 60 Bushels. 60- 90 Bushels. 80-125 Bushels.

Above power for cutter head. For shredder head we recommend 4 H. P. more.

No. 14—Two-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting. \$412.00 No. 14—Husker, with shredder head instead of cutter head. 426.00 No. 14—Husker, with both cutter and shredder head. 458.20 No. 18—Four-Roll Husker, with shredder head instead of cutter head. 527.00 No. 18—Husker, with both cutter head, swivel, car-corn carrier, 20-ft. blower and wheel mounting. 527.00 No. 18—Husker, with both shredder head cutter head. 580.20 No. 18—Husker, with both shredder nead cutter head. 580.20 No. 24—Six-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting. 740.00 No. 24—Husker, with both cutter and shredder head. 796.00 No. 24—Husker, with both cutter and shredder head. 796.00 Blower Pipe, extra length, per foot. 1.50 No. 32—Husker, with shredder head instead of cutter head, f. o. b. factory. 1.50 No. 32—Husker, with shredder head instead of cutter head, f. o. b. factory. 935.00
No. 14—Husker, with shredder head instead of cutter head. 426.00 No. 14—Husker, with both cutter and shredder head. 426.00 No. 14—Husker, with both cutter head, swivel, car-corn carrier, 20-ft. blower and wheel mounting. 527.00 No. 18—Husker, with shredder head instead of cutter head. 527.00 No. 18—Husker, with shredder head instead of cutter head. 580.20 No. 18—Husker, with both shredder and cutter head. 580.20 No. 24—Six-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting. 740.00 No. 24—Husker, with shredder head instead of cutter head. 796.00 No. 24—Husker, with both cutter and shredder head. 796.00 Blower Pipe, extra length, per foot. 1.50 No. 32—Eight-Roll Husker, with cutter head, swivel, ear-corn, carrier, 20-ft. blower and 4-wheel mounting, f. o. b. factory. 917.00 No. 32—Husker, with shredder head instead of cutter head, f. o. b. factory. 935.00
No. 14—Husker, with both cutter and shredder head 458.20 No. 18—Four-Roll Husker, with cutter head, swivel, car-corn carrier, 20-ft. blower and wheel mounting. 527.00 No. 18—Husker, with shredder head instead of cutter head. 541.00 No. 18—Husker, with both shredder and cutter head. 541.00 No. 18—Husker, with both shredder and cutter head. 541.00 No. 24—Six-Roll Husker, with cutter head, swivel, car-corn carrier, 20-ft. blower and wheel mounting. 740.00 No. 24—Husker, with shredder head instead of cutter head. 764.00 No. 24—Husker, with both cutter and shredder head. 796.00 Blower Pipe, extra length, per foot. 1.50 No. 32—Eight-Roll Husker, with cutter head, swivel, ear-corn, carrier, 20-ft. blower and 4-wheel mounting, f. o. b. factory. 917.00 No. 32—Husker, with shredder head instead of cutter head, f. o. b. factory. 935.00
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No. 18—Husker, with both shredder and cutter head. 580.20 No. 24—Six-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting. 740.00 No. 24—Husker, with shredder head instead of cutter head. 754.00 No. 24—Husker, with both cutter and shredder head. 796.00 Blower Pipe, extra length, per foot. 1.50 No. 32—Eight-Roll Husker, with cutter head, swivel, ear-corn, carrier, 20-ft. blower and 4-wheel mounting, f. o. b. factory. 917.00 No. 32—Husker, with shredder head instead of cutter head, f. o. b. factory. 935.00
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Blower Pipe, extra length, per foot
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No. 32—Husker, with shredder head instead of cutter head, f. o. b. factory
No. 32—Husker, with both shredder and cutter head, f. o. b. factory

MONARCH SEMI-STEEL STUMP PULLERS

Monarch Stump Pullers embody in their construction special features which make them the strongest and most efficient ma-chines for such work. The heavy solid one-piece main frame, the grooved drum, the drum clutch, the high-grade cable and other features place the Monarch Stump Fullers in a class to themselves. Special catalogue fully describing these features mailed free fully describing these features mailed free on application.

No. 3—Semi-Steel One-Korse Stump Puller, equipped with 50 feet of ¾-inch pull cable and 8 feet of ¾-inch anchor cable. For ordinary stumps. Weight, 450 pounds. Our Price, \$90.00, with 75 feet of pull cable.

No. 4-Monarch Semi-Steel Stump Puller, 75 feet ¾-inch pull cable, 10 feet ¾-inch anchor cable. Weight, 675 pounds, Our Price, \$111.00. Extra cable (to make pull cable any length you want), per foot, -

No. 5—Monarch Semi-Steel Stump Puller, 75 feet %-inch pull cable, 12 feet %-inch anchor cable. Weight, 875 pounds, \$156.00. Extra cable (to make pull cable any length you want), per foot, -

No. 5-Cam Take-Up, 12 feet %-inch cable and steel cable hook. Weight, 70 pounds......\$37.00

foot. No. 6-Cam Take-Up, 12 feet 1-inch cable and steel cable Weight, 80 pounds......\$50.35 hook.



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..\$285.00 Extra cable (to make pull cable any length you want), per foot,

No. 7--Cam Take-Up, 15 feet 1%-inch cable and steel cable Weight, 150 pounds..... hook.\$70.00 No. 7-Double Power Pulley, 20 fcet 11/2-inch cable and steel

cable hook. Weight, 150 pounds......\$79.25

MONARCH BESSEMER STEEL STUMP HOOKS.

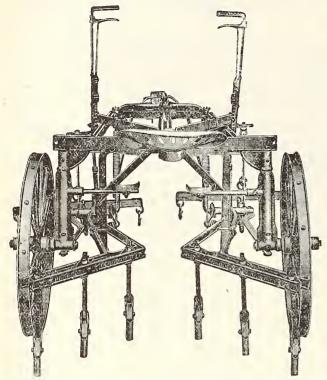
Notice the sharp cutting edges on the inside of each prong and the heavy steel back of them, which counts for strength.

No. 4—Regular Mesquite Stump Look, for use with No. 2, No. 3 and No. 4 Mighty Monarch Stump Pullers; used exten-sively for heavy brush hedge, palmetto, mesquite and old stumps. Weight, 65 pounds. Our Frice, \$25.25. No. 7—Medium Mesquite Stump Hook, for use with No. 5 and No. 6 Mighty Monarch Stump Pullers; for heavy stumps and heavy mesquite, etc. Weight, 85 pounds. Our Frice, \$35.00.

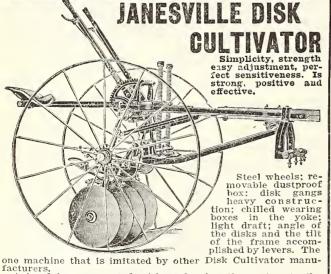
No. 8—Giant Mesquite Stump Hook, for use on No. 7 Mighty Monarch Stump Pullers or on large double, triple and quad-ruple power outfits for extra heavy work where no other stump hook will stand the strain. Weight, 160 pounds.......\$66.00

Genuine Brown Pivot Axle Jr. Riding Cultivator

162



This is a general purpose Cultivator with high wheels, adapted for use on rough or hilly land, though equally suc-cessful in the cultivation of level land. It is made mostly of steel and malleable, light in weight and strong in construction, and works easily in the most difficult soils. The shovels are held at uniform depth in the soil, whether hard or soft, by strong pressure. It has powerful leverage for the convenient shifting of the wheels and gangs which move together, responding quickly and easily. The wheels are adjustable to different widths. 6-Shovel Pin Hoe.....\$56.25 8-Shovel Spring Hoe....\$64.50

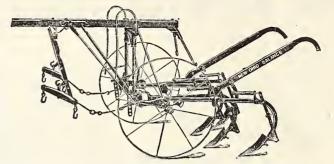


one machine that is imitated by other DISK Curticated Junit facturers. A hand lever, opcrated without leaving the seat, sets the gangs at any desired cutting angle and enables the driver to throw as much dirt to the plants as he desires. You can run it up close to the young plant without cutting off or wounding the lateral roots. The Janesville cuts and buries trash, vines, stalks, and kills the woods.

the weeds

Price, with Pivot Axle......\$76.25

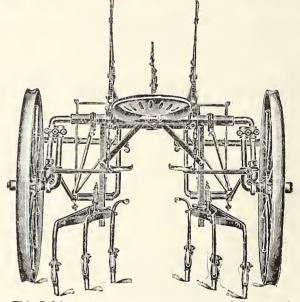
Genuine Brown Balance Frame Walking Cultivator



This is a double parallel beam Cultivator, designed for cul-tivating corn in rooty, stumpy or rough ground. It is a very strong tool and one that is easy to operate. Location of the frame at a greater distance in front of the hub of the wheel than is found in the usual construction, exerts greater force in counteracting the pressure of the lifting springs so as to prevent the tongue from flying up in cultivating rough ground.

4-Shovel	Pin Hoe	\$34.50
	Pin Hoe	
	Spring Hoe	
6-Shovel	Spring Hoe	43.75

BIG JANESVILLE CULTIVATOR



This Cultivator is built to meet the demand for an adjust-able arch, pivot axle cultivator. It is the quickest dodger in crooked corn of any cultivator of its class. This machine can be successfully operated by any youth able to drive in a corn field. On side hills, heavy soil or crooked rows this machine is especially recommended on account of its extreme ease in operation

operation.

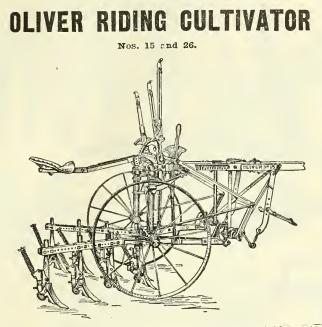
The wheels are 42 inches high with 2½-inch concave tires. Weight about 475 pounds. 6-Shovel Pin Hoe.....\$65.75 The above are equipped with 3-inch shovels only.



6-Shovel Pin Hoe.....\$62.00 8-Shovel Spring Hoe...\$72.50 6-Shovel Spring Hoe... 69.00

Janesville Balance Frame Walking 6-Shovel Pin Hoe.....\$39.50 6-Shovel Spring Hoe ... \$45.75

8-Shovel Pin Hoe ... 40.75 The above are equipped with 3-inch shovels only.

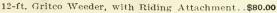


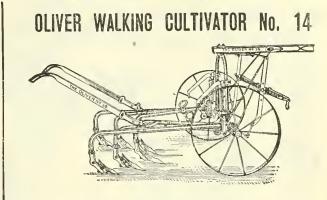
The No. 26 is well constructed of steel and malleable parts, and it has all the adjustments necessary to perform the re-quired work. When you look at the machine you will agree with us that it will do the work well, and it is amply strong to stand up under the work.

stand up under the work. The No. 15 has a balance frame and the horse lift. The tread of the wheels can be narrowed down for cultivating rows that are planted close together, and can be widened out to give more room for steering the gangs and wheels when the rows are crooked or out of check. The frame does not project over the wheels when the wheels are set for narrow track. There is ample clearance of the arch. The No. 15 has pole adjustment up and down, so that the frame is always level, regardless of the size of the team. The Pivot axles are equipped with ball-bearings, which makes this cultivator easy to operate. The No. 15 is equipped with three levers for operating the gangs. The long lever raises and lowers both gangs. The two short levers are used to regulate the depth of each gang, or raising the gangs independently to free the shovels of trash or pass over an obstruction. The short lever lirectly in front of the operator is used to widen or narrow the gangs. Our the gangs.

	List	Special
	Price.	Price.
6-Shovel Pin Hoe	\$105.00	\$63.00
8-Shovel Pin Hoe	107.50	64.00
6-Shovel Spring Hoe		69.00
¿-Shovel Spring Hoe	. 121.80	73.00







There are many walking cultivators on the market whose combined merits would, if embodied in a single machine, no doubt result in a fine implement, but it is left for the Oliver No. 14 to present the majority of existing advantages besides offering some entirely new features. The axles are continuous, and by virtue of the solid clamp and solid brace fastening below, the Oliver is the most rigid and strongest machine of the kind ever offered. Compare this construction with others where braces terminate in loose eyes around the axle, or when upper ends of axles are held in loose sockets with set screws. The tonguc is perfectly balanced, the wheels are strong, fitted with 2-inch tires and dust-proof hubs. The hitch is short, and this is the only cultivator with eveners behind the point on pole where arch braces fasten. The spring lift is adjustable up and down on the arches.

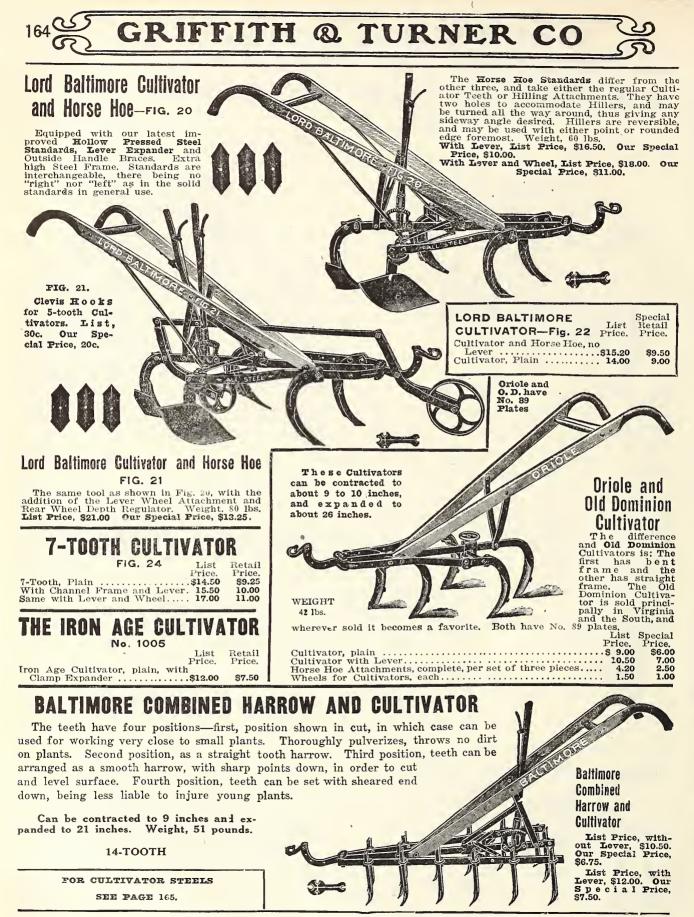
	List Special Price. Price.	
No. 14-C-6-Shovel Pin Hoe, wt. 280 lbs	\$63.50 \$ 37.50	
No. 14-L-8-Shovel Pin Hoe, wt. 264 lbs	65.00 38.50	

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WEEDERS & ATTACHMENTS

By the use of Weeders much time and labor are saved and better crops grown. These weeders or shallow cultivators, as they are sometimes called, can be worked in dry or wet weather. They will not cut the roots of the crop, but cultivate just deep enough to retain the moisture where it is most needed. Use a weeder early and often, and you will be surprised at the results. It is a good policy to use the weeder after a heavy rain, when the ground has been beaten down, to avoid the forming of a hard crust which retards the growth and development of the crops.







.22







Price, \$30.00.

Neck Yoke and Whiffle Trees, \$4.00.

CUTAWAY

CUTAWAY DOUBLE ACTION HARROW REGULAR

REGULAR The great efficiency of Cutaway (Clark) Double Action Harrows is due more to the rigid main frame than to any other feature. All four gangs are attached to this one rigid main frame. Observe their positions in relation to one another. The rear disks cannot slue from side to side, following the course of least resistance, but cut just midway between the fore disks. Every particle of soil to the full depth to which the disks run is thor-oughly stirred. Note how compactly the weight is distributed; how excessively strong it is throughout. The **Cutaway** (**Clark**) is the original double action harrow. Its popularity spread because of its unequalled efficiency, and its effi-ciency is mostly due to the rigid main frame. There are substitutes, but at best they are only substitutes. When-ever there is any flexibility between the gangs the real efficiency is lost. The rigid main frame is vital. Diam. No. of of Width

	No. of	f of	Width				
Size.	Disks	Disks.	of cut.	Hitch.	Wt.	Price.	
A-8	3 12	16''	31 611	4-h	345	\$63.80	
A-4	16	16"	4' 6"	4 - h	435	85.25	
A-5	5 20	16"	51 61	4-h	510	97.50	
A-6	3 24	16//	6/ 6//	4-h	610	106.15	

DOUBLE ACTION HARROW REGULAR

CUARK

ENGINE HARROW

CUTAWAY DDUBLE ACTION

DISK HARROWS

ENGINE HARROW The mechanical detail of this machine four gangs are attached to the one rigid min frame. This construction is all important—vital. Only by the rigid main frame can a double action engine harrow be made to do such work as to justify its existence. The gangs are held rigid by They cannot shift and slue about, but work in correct relation to one an other at all times. The fore disks throw the soil out, and the rear disks cut just midway between the fore disks throw the work in correct relation to one an other at all times. The fore disks throw the soil back, so that all is thor-oughly stirred and left level. In the the middle. Observe in the illustration opposite how excessively strong this harrow is built throughout. The frame is of heavy angle iron, stoutly braced with angles. Draft rods extend between the frame and axles, so that the strain the hitch is adjustable to any engine. The hitch is adjustable to any engine, and a perfect line of draft can always be mintained. The gangs are easily set at an insterevery engine, and by hitch-ing in multiples practically any sangle desired. There is a size for an apprecipation are given in table.

LIGHT TRACTION HARROWS.

	No. of Disks.	Cut.	Wt.	Price.
$\mathbf{X4}$	16-18"	4 1/2		\$101.90
X5	20-18"	$5\frac{1}{2}$	675	121.90
\mathbf{X}_{6}	24-18"	$6\frac{1}{2}$	835	146.55
X7	29-18"	$7\frac{1}{2}$	965	171.60

No of Diam of Width

± 1	0.01 1	Diam.oi	L YVICICI	1			TIO'OT D				
Size. Di	isks.	Disks.	of cut.	Weight.	Price.	Size.	Disks.	Disks.	of cut.	Weight	t. Prie
*X- 6	25	18" -	71	1440	\$239.05	B- 6	25	20''			\$240.
X-7	29	18″	81	1625	263.90	B- 7	29	20''	81	1665	269.
X- 9	37	18"	10' 6"	2090	341.55	B- 9	37	20''	10" 6'	2170	357.
X-11	45	18"	12' 6"	2475	438.40	B-11	45	20''	12' 6"	2575	458.
*"	" me	ans tha	at the	disks are	18 inches	in d	iameter	·· "R"	20		
	1110	Contro Caro		Con		u	10011100001	, <u> </u>			

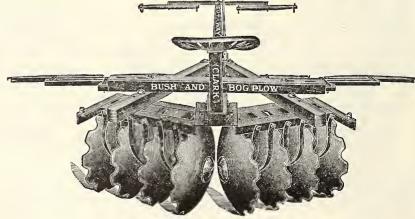
CUTAWAY BUSH AND BOG PLOW

On many farms are fields lying out as waste, simply because their owners do not know how cheaply and quickly they may be put under cultivation. The old, expensive, hand-labor method is no longer necessary. Much work that could be done heretofore only by slow, tedious and hard labor with an axe, bush-knife and shovel can now be done with the **Cutaway (Clark)** Bush and Bog Plow. As is shown in the illustration oppo-site, this machine is a big, heavy disk plow or harrow. It weighs 660 pounds. It is equipped with extra heavy 24-inch lisks of standard **Cutaway (Clark)** qual-ity, forged sharp. The bearings are dust-proof, oil-soaked hardwood, perfectly lubricated. On many farms are fields lying out as

ity, forged sharp. The bearings are dust-proof, oil-soaked hardwood, perfectly lubricated. No.of Diam.of Width Uisks, Disks, of cut. Hitch. Wt. Price. 8 24 in. 5 ft. 4 H. 680 **\$120.75** 8 20 in. 4½ ft. 2 H. 440 **79.85** Additional for above, fitted with fore truck, less long tongue and neck yoke, **\$775**.

\$7.75

No of Diam of Width



 Big
 Description
 Description
 Description
 Description

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"take the ground.

Size.			Width of Cut.	Hitch.	Wgt.	Price
A-4	8	16-in.	4-ft.	2-h.	250	\$46.15
A-5	10	16-in.	5-ft.	3-h.	275	53.80
A-6		16-in.		4-h.	305	60.55
A-7	14	16-in.	7-ft.	4-h.	435	70.25

REVERSIBLE SINGLE HARROW-REGULAR

DISK HARROV

CUTAWAY SINGLE ACTION HARROW-EXT

Orchard tillage should be intensive. It is common knowl-edge that no crop responds to thorough tillage more profitably than large fruits. It is, therefore, natural that the orchardists should demand CUTAWAY (CLARK) harrows especially built for

REVERVIELE SINGLE ACTION HARING

REVERSIBLE SINGLE ACTION HARROW-EXTENSIO

A. A.T.

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should demand CUTAWAY (CLARK) narrows especially their peculiar needs. The CUTAWAY (CLARK) Single Action Harrow-Extension is the same machine as the CUTAWAY (CLARK) Single Action Harrow-Regular, except that the head is longer so as to spread the gangs out be-yond the team and under the branches of the trees. The head is built on top of the gangs. To it are attached the tongue, braces, seat and levers. Thus the entire weight of the machine is on top of the gangs and is carried entirely by the disks. No. of Diam. of Width

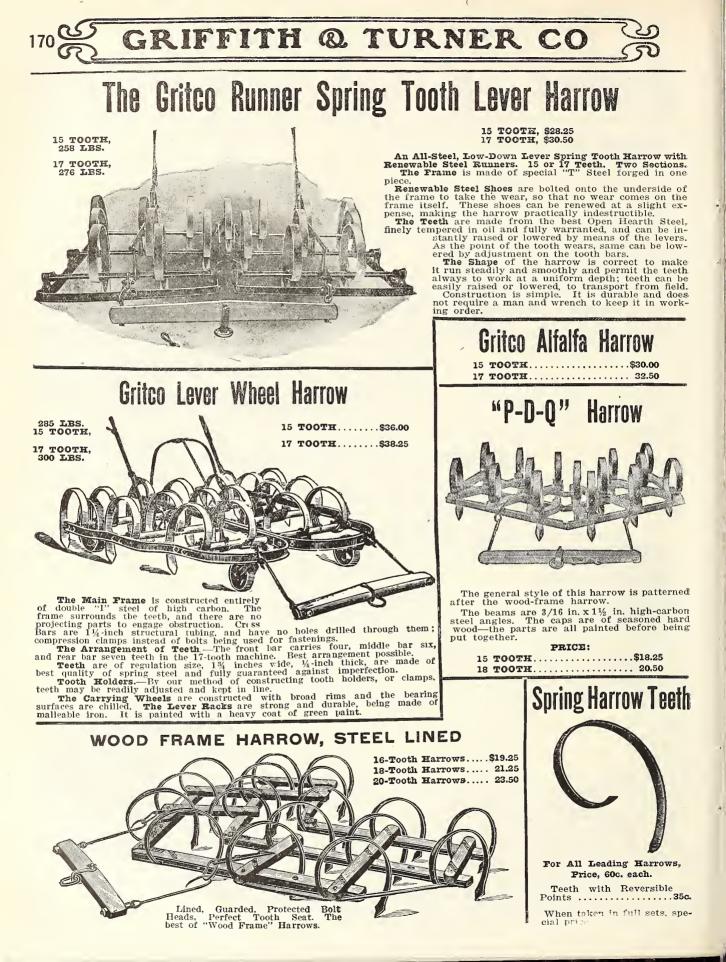
A-4 8 16-in. 6-ft. 2-h. 265 \$48. A-5 10 16-in. 7-ft. 3-h. 295 56.	4-5	Disks. 8 10	16-in. 16-in.	of Cut. 6-ft. 7-ft,	3-h.	295	Prie \$48.7 56.4 64.9
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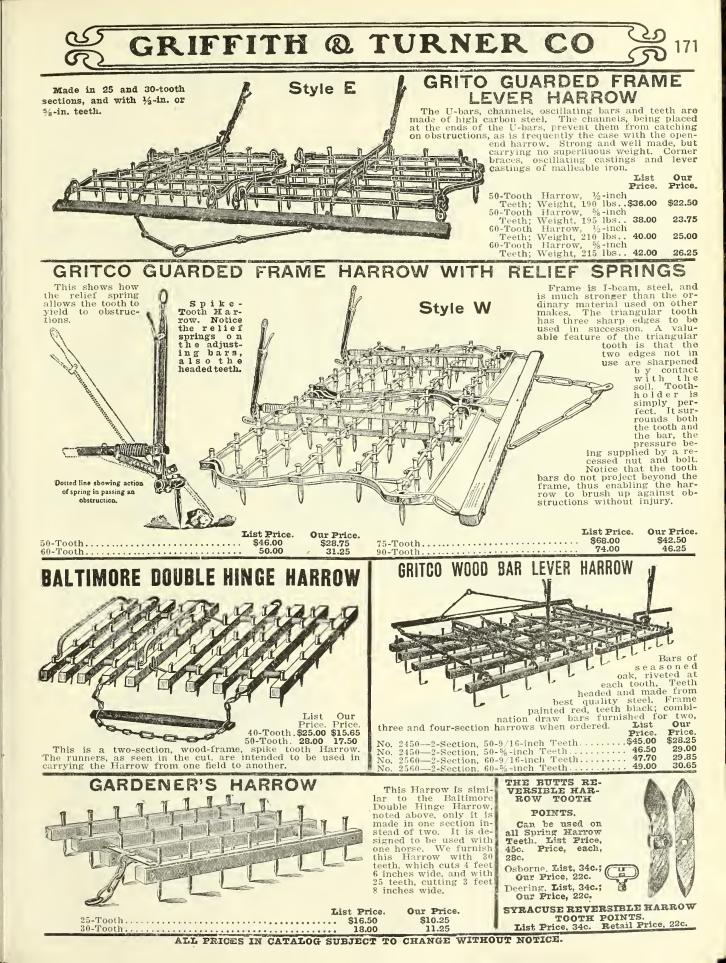
Cutaway Single Action Harrow with Tongue Truck

This harrow is the same as the Cutaway Single Acting Harrow, except it is provided with a tongue truck, and in this instance the harrow is furnished without long tongue and neck yoke.

Four essentials of a good tongue truck are: first, an axle joint, which allows either wheel to rise up and run over clods, stones and other obstacles without affect-ing the even, regular deraft of the harrow; second, ad-justable tongue attachment, which makes it possible to attach the tongue truck to a harrow of any height; third, adjustable hitch attachment, which makes it pos-sible to set the hitch to suit the size of any team; fourth, dust-proof, oil-soaked hardwood bearings. Each of these essentials are found perfectly worked out in the CUTAWAY (CLARK) Harrow Tongue Truck. The prices are for complete harrows.

Size. A-4 A-5	Disks. 8 10	Diam. of Disks. 16-in. 16-in.	Width of Cut. 4-ft. 5-ft.	Hitch. 2-h. 3-h.	Wgt. 250 275	Price. \$53.90 61.55
A-6	12	16-in.	6-ft.	4-h.	$\begin{array}{r} 305\\ 435 \end{array}$	68.30
A-7	14	16-in.	7-ft.	4-h,		78.00





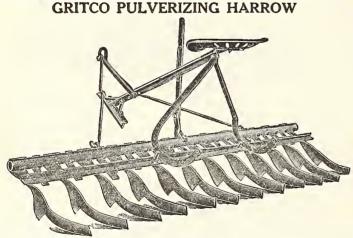
IVER TRACTOR PLOWS Plow is the opular with No. 78 The Oliver No. 78 Tractor Plow is the plow which has become so popular with the tractor manufacturers because of the

plow which has become so popular with the tractor manufacturers because of the quality work that it does. Plowing is the most important and hardest work done on the farm. It is sually done at a time when adverse conditions are met with. In the Spring the horses are not in condition and in the Fall the ground is hard and dry. By means of the tractor plow all of this most cases sod or stubble fields should be plowed in the Fall and allow throughout the winter. This method puts the soli in good condition for the seed bed in early spring. Because of the fact that plowing is hard, weather hot and other adverse conditions, a farmer who has no portant work. Oliver Tractor Plows provide a means of doing this work in a very easy and satisfactory manner and with a minimum amount of effort. Oliver Tractor Plows are designed to do the same quality work that has made Oliver horse plows so famous. They are easy to operate, plow an even depth at the ends of the field and in all conditions will do the kind of work that the farmer wishes.

Oliver Tractor Plows scout even under adverse conditions. They turn a smooth furrow, and provide a compact seed bed that is free from air spaces. A wide range of close adjustments enables the operator to turn a furrow of the exact depth desired. When opening the field the bottoms can be adjusted to turn a dead furrow no higher than the rest of the field. The Oliver No. 78 Tractor Plow is a power lift plow, having features which are found only in this plow. The No. 78 can be changed from a two to a three-bottom plow easily and quickly. When plowing conditions are hard and the tractor power limited this plow can be used with two bottoms. Under favorable conditions the third bottom can be adjusted for maximum results obtained from the

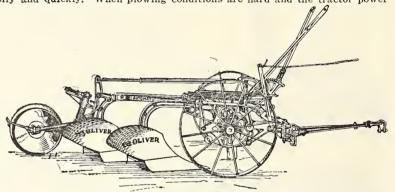
be added and maximum results obtained from the

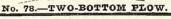
available horse power. The levers of Oliver tractor plows are within easy reach of the operator on the tractor seat. When used with a standard light tractor they make a perfect one-man outfit.



This Pulverizing Harrow will pulverize either light or heavy soil, and do it better than other harrows. The action of the blades is to pulverize the soil and at the same time put the ground in a smooth condition, thus producing an ideal seed bed. It produces the work of a disk and spike tooth harrow. It can be adjusted by the use of the lever to any desride depth, and will not drag out the filth, but cut it up underneath where it will rot and

drag out the him, but cut it up that the provided of the provi







The Cutaway (Clark) Ever Handy Harrow is primarily a one-horse machine, but has combination pole and shafts, and is easily converted from a one to a two-horse shafts, and is easily converted from a one to a two-norse harrow or vice versa. A medium or even small horse will pull it, although for cultivating rowed crops two horses are used. It is reversible. To reverse, simply pull the cotter pins holding the two lever links, drop the links, swing the gangs around and reattach the lever links. This feature permits the user to throw the soil to or from the row, to throw up or tear down beds, or to cul-tivate to or from trees, vines, etc. No No. of Disks.

Price.

\$39.45

Size of Disks. Width of cut. Weight. 16 in. 3 ft. to 4 ft. 8 in. 230 With Wood Head Only. ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

6



Specifications.

Frame-22 inch. Option on 20- and 24-inch.

Color-Black. Option on Royal Blue, Tan, Carmine or French Grey.

Crown—Drop-forged. **Rims**—Hard Maple enameled and striped to match frame. Option on Crescent Steel Rims. Hubs—Front, New Departure. Rear, Coaster Brake.

Hubs—Front, New Departure. Rear, Coaster Brake. Hanger—Fauber Round Special. Cranks—7-inch throw. Sprocket—24, '26, 28 tooth front; 7, 8, 9 or 10 tooth rear. Regular gear, 9 and 26 tooth. Chain—3-16 inch Roller Chain. Pedals—Rat-trap. Saddle—Troxel 4B. Handle Bar—Ordinary adjustable 21 inch wide, 6 inch drop. Tires—Reliance single tube, grey, studded non-skid tread.

Tires-Reliance single tube, grey, studded non-skid tread, fully guaranteed.

MODEL No. 33-Men's Bicycle with Peerless coaster brake\$50.00

BOYS' AND GIRLS' BICYCLE less tubing. **Color**—Black, with red striping. Option on blue with red striping, carmine or maroon with silver striping. Fork Crown-Dropforged. GENORON



Hubs—Turned from solid steel bar (no coaster brake). Bearings—All bear-

ings, including the head bearings, are head bearings, are turned from the solid steel bar, hardened and ground.

and ground. Chain — Diamond No. 9, 1-inch pitch. Rims—Rolled from cold rolled steel with drop centers, valve hole shouldered; en-ameled to match from frame.

Handle Bars--Adjustable.

Saddle-Troxel Juvenile with double coil springs. Pedals-Standard Rat-trap.

Guards-Rolled from cold-rolled steel with raised Mud center.

Wheels--24 in.

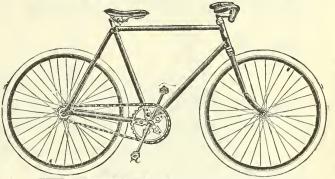
Tires-11/2-inch Gendron Juvenile single tube, guaranteed. GIRLS' No. 97—Price\$39.50 40.00



The **Studebaker Junior** is a substantially made miniature wagon, not a mere toy. It is one of the finest and strongest wagons of its kind in the market, and is built after the style of the regular **Studebaker**—oak frame, farm wagon gearing with bent hounds and adjustable reach, all parts strongly ironed and braced, welded tires, handsomely painted. Body is 17x36, wheels 12x18 inches.

With hand pole	\$13.00
With pole and shafts	
Sled runners for wagon	2.50

RELIANCE MEN'S ROADSTER



PREMIER MEN'S ROADSTER



Specification. Frame-22-inch. Op-tion on 20- and 24-inch. Color-Black. Option Boyal Blue, Tan, on Royal Blue, Tan, Carmine or French Grey. With Aluminum Spear-point fancy head and fork tips.

Crown—Drop-forged. Rims— Hard maple enameled and striped to match frame.

Hubs - Front. New Departure. Rear, New

Departure, Corbin or Morrow Coaster. Hanger-Fauber Round Special. Cranks-Round 7-inch. Sprocket-24, 26-, 28-tooth front; 7-, 8-, 9-, 10-tooth rear. Regular gear 9- and 26-tooth. Chain-3-16-inch Roller Chain. Pedals-Pirate Rat-trap. Saddle-Troyel Tin Top No. 3

Saddle—Troxel Tip Top No. 3. Handle Bars—No. 25 adjustable, 21-inch with 6-inch drop. Mud Guards—Steel with drop center. Rolled edge, enam-

Mill Guards frame. eled to match frame. Tires—Reliance Single Tube 1½-inch, guaranteed. MODEL No. 19—Men's Bicycle with coaster brake, \$55.00.

GRITCO WAGONS

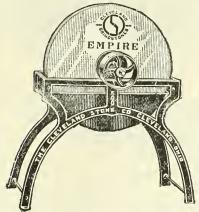
Entire wagon made of selected hardwood. Construction closely follows that of regular farm wagon, having bent hounds and adjustable reach. All parts heavily braced and ironed.







Empire Iron Frame Power Grindstone THE EMPIRE BALL-BEARING POWER GRINDSTONE



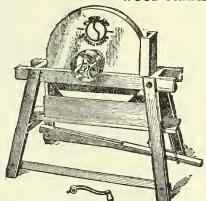
Designed to meet the needs of the farmer who desires a grind-stone to be operated by a gasoline engine, the Empire not only possesses the needed strength and staunchstrength and staunch-ness to withstand the strenuous service of every day use, but is of light weight and easily handled. The frame and trough of the Empire are cast iron and should last a lifetime. It has de-tachable steel shaft, 6 inch pulley and hard-ened steel annular ball bearings of the finest quality. quality.

The EMPIRE is

in diameter and 2 inches to 3½ inches thick. This is the most efficient and best grit produced for general use and especially for farm tools.

Weight complete, about 225 pounds. Price, complete\$21.50

Farmers' Special Power Grindstone WOOD FRAME



Price, complete

Recognizing a de-Recognizing a de-mand for a high grade power grindstone for the farm at a popular price, we offer the Farmer's Special, a wood frame power grindstone especially designed to meet this dcmand. demand.

demand. In addition to the regular equipment for a power grindstone we furnish a foot treadle with ball bear-ings on the crank and a handle crank, either for use in case of emergency. Frame shipped knocked down; stone crated.

crated.

Weight complete, about 175 pounds.\$17.00

Harvest King Power Grindstone

The frame is constructed of heavy angle steel strongly braced. It is equipped with high-grade selected Grindstone 24 in. by 2 in., furnished with 12-in. pulley with 2%-in. face, and heavy steel roller bearings, drin oup and hand granks drip cup and hand cranks.

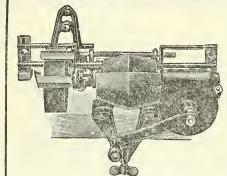
The frame is shipped folded complete, stone crated, to save freight. Weighs about 125 lbs.

Price, regular, which includes 24 in. x 2 in. Stone, 12 in. x 2% in. Pulley, Hand Crank and Drip Cup\$15.00

EXTRAS. Trough Treadle, Pitman and \$1.75

1.75 Bearing.....

"BEST MADE" Sickle and Tool Grinder



In nutting out these new machines we are at on ce placing farm sickle grinders in the class of strictly highgrade machines.

These grinders can These grinders can be attached to a bench or a mower wheel. The No. 255 has a swivel ar-rangement that the tool grinder can be turned to an upright position position.

Nº. 82-C SICKLE AND TOOL GRINDER



The No. 82C Grinder is a sim-ple, compact and serviceable hand-power sickle and tool grinder especially suited to grinder especially suited to farm work. It can be clamped either to a mower wheel or to a bench. The tool wheel is 4¼ x 1% inches.

-With Bevel and Flat 82C Tool Wheel\$7.50 82C-With Bevel Wheel.. 6.00

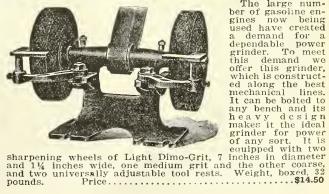
TOOL GRINDERS

No. 2C-Kitchen Grinder, with smooth stone for sharpening knives......\$2.25

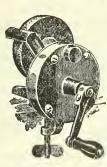
No. 94—It is equipped with a $4x_{4}$ -in. Grinding Wheel, and is intended for a Household Grinder. Weighs 6 lbs. boxed.\$3.75 Price

No. 17—It is equipped with a 7x1-in. Grinding Wheel, and will be found a very useful Grinder, doing the work very rap-idly. Weighs 15 lbs, boxed, Price..\$13.00

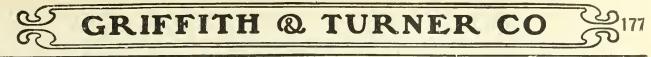
No. 309-C **POWER BENCH GRINDER**

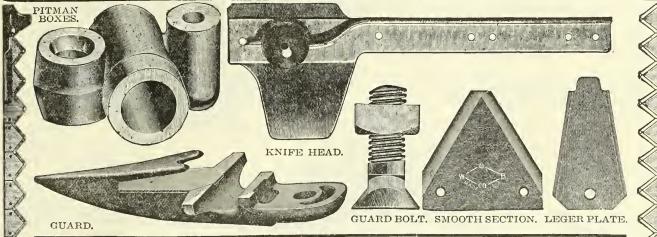


The large num-ber of gasoline en-gines now being used have created a demand for a dependable power grinder. To meet this demand we offer this grinder, which is construct-ed along the best









MOWER SMOOTH SECTIONS, KNIVES AND GUARDS

N. M.

COTTER.

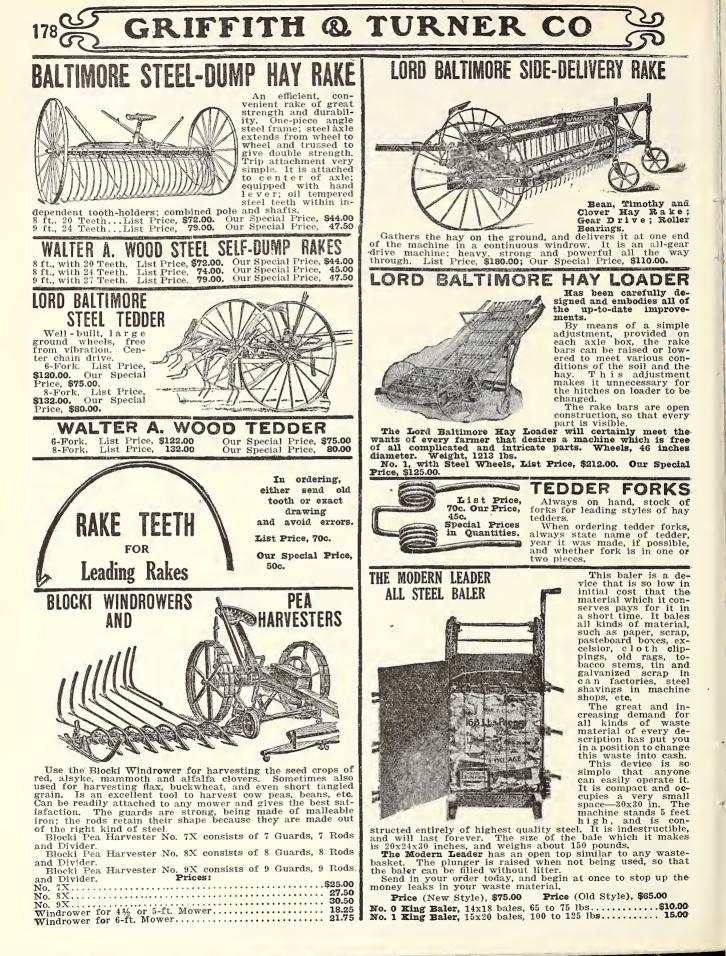
SICKLE	Made to fit the		Retail		Retail	No. of	Retail Price	Kni	ves .	Pitman	Retail Price	MOWER .
REAPER S	following Machines.	Size of Section.	Price of Section	No. of Guard	Price of Guard.	Knife Head.	of Knife Head.	comp 4½ ft.	5 ft.		of Pitman Boxes,	KNIFE
AF	Wood	3x3 ½	\$.08	2355	\$.35	2479	\$.40	\$3.00	\$3.10	A 2301	\$1.30	5
E	Wood	3x3 1/8	.08	A	.35	1680	.40	3.00	3.10	A 2301	1.30	
F	Wood	3x3 1/8	,08	Ľ	.35	2862	.40	3.00	3.10	2941	1.15	
	Wood	3x2 5/8	80,	P. P.	.35	1810	.40	3.00	3.10	1785	1.10	
	Deering	3x3¼	.08	D 698	.35	D 463	.40	3.00	3.10	D 711	.65	
	Deering	3x3 ¼	.08	D 698	.35	F 123	.45	3.00	3.10	D 334	1.00	
	Deering	3x3 1/8	.08	F $\frac{1}{2}$.35	F 17 4	1.00	3.00				
	Deering	2 ¼ x 3 ½	.08	F 991/2	.35	F 74	1.00	3.00				
	McCormick	3x3 3/16	.08	M 462	.35	M 139	.40	3.00	3.10	MI 317	.65	
	McCormick	3x3 1/16	.08	M 253	.35	M 139	.40	3.00		<mark></mark>		
	Champion	3x3 3/16	.08	A 881	.35	A 870	.40	3.00	3.10	B 6831/2	.30	
	Champion	3x3 5/16	.08	A 41	.35	A 415	.40	3.00	3.10.			
	Champion	3x3 9/16	.08	A 42	.35	A 415	.40	3.00	3.10	A 747	.75	
	Champion	3x3 3/16	.08	A 811	.35	A 415	.40	3.00				
	Osborne	3x3 3/16	08	K 514	.35	K 77 4	.40	3.00	3.10	K 826	.80	
-	Osborne	3x3 High Punch		K 280	.35	K 284	.40	3.00	3.10	K 278	.65	
H	Osborne	3x3 Low Punch	.08	K 7 2	.35	K 212	.40	3.00	3.10.			0
log.	Johnston	3x3 ¾	.08	1811	.35	2211	.40	3.00	3.10	2207	.65	AND
es	Johnston	3x31/8	.08	77	.35	124	.40	3.00	3.10	257	1.00	A
0 m	Plano	3x31/8	.08	J 110	.35	J 94	.40	3.00	3.10	J 100-J 9	9.65	z
	Milwaukee	3x3 1/8	.08	PK 5	.35	P.G. 6	.40	3.00	3.10	P J 50	.80	NO
E I	Adriance Bucke		.08	3087	.35	557 F	.45	3.00	3.10.			IL
bli	Akron Buckeye	10		775	.35	301	1.00	3.00				EC
Ca	Akron Buckeye	3x33% High Punch	a .08	775	.35	301	1.00	3.00	3.10.			S
applicatio	Dain	3x3 3/16	.08	Z 5	,35	Z 4	.40	3.00	3.10	Z 162	.65	

BINDER SICKLE SECTIONS, GUARDS AND KNIVES

GUARD RIVETS.

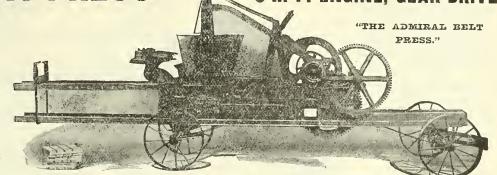
Machines. Made to fit the following	Size of Section	Retail Price of Section.	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head.	6 ft.	Knives complete 6½ ft.	7 ft.
Wood Binder	. 3 x2 5/8	\$.08	W	\$.35	H 2139	\$.45	\$3.40		\$3.80
Wood Binder	. 3 x2 3/16	.08	H 171	.35	H 1150	.40		\$3.80	
Deering Binder	31/8 x2 1/8	.08	286	.35	H 260	.40	3.40		3.80
Deering Binder	31/8 x2 5/16	.08	286	.35	A 46	,40	3.40		3.80
McCormick Binder	3 x2 1/8	.08	H 495	.35	B 23	.40	3.40		3.80
Champion Binder	3 x2 5/8	.08	U 53	.35	1852	.40	3.40		3.80
Osborne Binder	3 x2¼	.08	D 300	.35	B 587	.40	3.40		3.80
Johnston Binder	3 x2 3/8	.08	50 A	.35	L 296	.40		3.80	
Plano Binder	3 x2 3/16	.08	L 300	.35	L 395	.40	3.40		3.80
Plano Binder	3 x21/2	.08	L 67	.35	L 66	.40	3.40		3.80
Milwaukee Binder	3 1/8 x2 1/4	.08	J 76	.35	H 41 %	.40	3.40		3.80
Adriance Binder	. 3 x2½	.08	1265	35	1245 A	.40	3.40		3.80
Akron Buckeve Binder	3 x21/2	.08	T 35	.35	H 700	1-00	3.40		3.80

Lever Plates for all Machines, 6c. each. Section and Guard Rivets, 25c. lb. Guard Bolts for all Machines. 5c. each. Above we give a table of sizes, numbers and prices of Sections, Guards, Knife Heads and Knives complete, and combina-tions generally used. In some cases more than one Knife Head and Guard have been used with the same section. In ordering, always give number of Guard and Knife Head, also drawing of Section wanted, showing holes punched in Section. In ordering Knives complete, always give number of old Knife Head; also give number of cutting sections.



THE FAMOUS ADMIRAL RACK AND PINION HAY PRESS WITH PULLEY FOR BELT DRIVE OR WITH 6 H. P. ENGINE, GEAR DRIVE

Admiral Belt Presses are built either for belting to separate power or for mounting a six- or eight-horsepower engine on the same trucks. The details of construction are identical with the Admiral Motor Press, which is in use all over the United States and Canada. The weights are 11x18-3300 lbs.; 17x22-3750 lbs. In ordering the Admiral Belt Presses do not neglect to advise us of the diameter of your engine pulley and the speed of the engine. Price of Belt Power Press without engine, 14x13, \$543.25; 17x22, \$609.50.



"THE ADMIRAL MOTOR PRESS"



"The Admiral Motor Press" is a marvel of effective simplicity. Few parts, but those very strong. The close coupling, wheelbase, 10 feet 2 inches; lowfeed opening, 42 inches; light weight, 4500 lbs, in the 14x18, 4950 in the 17x22, including a 6-horsepower gasoline engine, makes it an ideal rig for any kind of baling. The machinery is covered, out of the way. The Admiral movement, by which the leverage constantly increases as the hay is compressing, is the secret of the wonderful capacity and service of this famous hay press. Write for special Admiral folder, which explains the details fully.

THE ADMIRAL 3-STROKE TWO-HORSE HAY PRESS

THE CELEBRATED TWO-MAN PRESS HAS SELF FEEDER AND CONDENSING PACKER

The Admiral two-man horsepower hay press was the first three-stroke, self-feed hay press. Foot-feeding is dangerous and expensive. Admiral two-man hay balers save the most expensive labor on the press, the feeder. Three feeds to the round mean an extra feed to every round of the team, and make the draft easier and steadier on the horse. The 26-inch feed opening, with three feeds, gives you 78 inches of feed opening to every round of the teams. The construction is all steel and heavy cast. All small castings are malleable. Admiral Hay Presses built in the nineties are still baling hay. Built in standard sizes, the weights are respectively: 14x18, 3000 lbs.; 17x22, 3400 lbs. The Admiral Two-Man Press is equipped with tongue, neck-yoke, double trees, hay tray, forks, division boards and lifting jacks. An Admiral will keep that idle team of yours busy. **Price, 14x18, \$420.00; 17x22, \$453.75.**

We regret that lack of space makes it impossible for us to properly illustrate this press here. We therefore request particularly that anyone interested in a two-horse sweep power press, write for special illustrated booklet.



The Three-Stroke Fork Feed Little Admiral is intended for the farmer who has comparatively small acreage, and yet wants to do his own baling. It is the only three-stroke, one-horse hay press on the market. The short crank enables one horse to make as heavy bales as desired. It is all-steel, and built only in the 14x18 size, and weighs 2140 lbs. This press has met with wonderful success throughout the South, where a baler of this kind is in demand, on account of its big capacity, steady construction and light weight. Three feeds of 22 inches each give 66 inches of feed opening to every round of the horse. If you have as little as 50 tons to bale, it will pay you to own a Little Admiral. **Frice, \$250.00**.





OWEN'S BEAN AND PEA THRESHER

UWEN'S BEAN ANU FEA INMESHER STRONG AND EFFICIENT. (No. 4). It will thresh all varieties of beans and peas directly from the vines as taken from the field, without splitting the grain, and at the same time shred the vines, the same as the larger size threshers. We wish to make one exception to the above, and that is in cow peas, where the vines grow very rank and heavy. You will readily see that, on account of its size, the No. 4 could not possibly be expected to handle these like one of our larger threshers, but where the vines do not grow too large and where care is exercised in feeding, it does very good work, indeed. We have shipped a great many of the No. 4 threshers to all parts of the South, and they are giving excellent satisfaction, especially with those who simply wish to save the seed and do not care for a large capacity. Capacity, 10 bushels per hour. One to three horse-power. The No. 4 will also thresh buckwheat. Weight, 400-pounds. <u>Pice, \$15000</u> <u>1620 DOUBLE CYLINDER.</u>

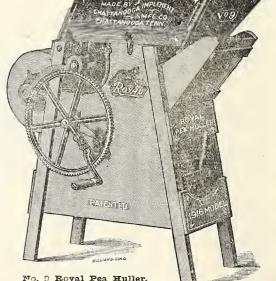
The machine will thresh all kinds of pcas and beans, no matter what kind or variety you grow, even cow peas and soy beans, directly from the vines without splitting the seed.



New model No. 9, with heavy bearings, wooden frame and box; malle-able iron cylinder and concave sections. Teeth do not break. Heavy fly-wheel and two cranks. Patent revolving screen, which insures absolutely clean peas and carries the refuse through a separate outlet. Reversible hopper to allow use of machine for cleaning wheat or other small grain. Cleans and threshes the peas thoroughly without breaking them. Shipping weight, 260 pounds. Can be furnished for operation by power by substi-tuting a pulley and heavier shaft for one of the cranks at an additional net cost of \$2.50. Cow Peas intended for seed should be allowed to get more mature. These will unavoidably lose most of the leaves, but will still be good feed after the Peas are picked and threshed. A very successful method of handling this crop is to pick the pods and thresh the Peas, turning the vines under, thus making the Cow Pea a profit-able money producer (they always bring good prices) and at the same time a soil saver. It comes nearer solving the problem of "eating your cake and having it, too" than any other proposition on the farm. The price of Seed Peas in some seasons have ranged as high as \$4.00 per bushel, and it is therefore an object for every farmer to save his own seed (and sell them, too), which can best be accomplished by the use of a ROYAL PEA HULLER. . THE ROYAL PEA HULLER will save a larger per cent, of all the Peas

THE ROYAL PEA HULLER will save a larger per cent. of all the Peas than any other known method. The ownership of a Royal Pea Huller rep-resents an outlay so small in comparison to the benefits, that no successful farmer will be without one.

Special and exclusive features to be had only with these machines are covered by patent, and cannot be had in any other make. Capacity, 8 to 15 bushels Dry Peas per hour. **Price**, \$55.00.





Ross folding feed table.

cylinder, as listed below.

\$70.50

92.75

Price with Either Price of 12-Foot



Sec. Sec.

MARYLAND LEVER CUTTER

Strong, Cheap and Durable.

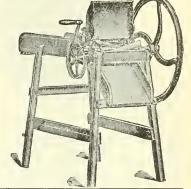
6

CYLINDER TYPE HAND CUTTERS

ROSS TWO KNIFE No. 115

GRIFFITH @ TURNER CO.

No. 111/2-"TWO-KNIFE."-The feeding rolls on this cutter are operated by means of cog whcels and sprockets. The feed is constant and uniform, and the cutter has large capacity. The feed rolls are equipped with coil tension springs; the cutter has large heavy flywheel, large crank, chilled shear bar and hardwood frame; length of cut, 1/4 inch, 1/2 inch and 1 inch. Special gears for cutting 1/8 inch can be furnished on order. Our Special Price, \$32.25.



Price with Either Price of 12-Foot Weight Cutter or Shredder Angle and Straight Price of 12-Foot Extra Carrier per Pounds Cylinder Carrier Swivel Carrier Foot Over 12-Foot Retail Retail Retail List Retail

CARRIERS FOR ROSS CUTTERS We list below two styles of carriers which can be furnished with Ross Cutters—the angle and straight carrier and the swivel carrier. These are illustrated and fully described in the Ross special cata-

ROSS SHREDDERS Ross machines can be furnished with either knife or shredder

PRICES ON APPLICATION.

Shredder Cylinder: If both shredder and knife cylinders are wanted, write for prices.

Power Required

H. P.

2 to 3 1/2 2 to 5 1/2

Capacity per Hour

 $\begin{array}{ccc} 3 \text{ to } 4 \\ 4 \text{ to } 6 \end{array}$

Size

No. 111 No. 113

Knives Inhces

4-13

-11

on 1-Inch Cut Ensilage Dry Fodder Tons Tons

 $\begin{array}{ccc} 1 & \text{to} 1 \frac{1}{2} \\ 1 \frac{1}{2} & \text{to} 2 \end{array}$

425

550

logue.

ROSS IMPROVED ENSILAGE CUTTER

With Traveling Feed Table and All Steel Blower The illustration represents the

The illustration represents the Ross line of Silo Fillers especially designed for heavy work, such as large Plantations or by Thresher-men for jobbing work. Low Down, so that feeder stands on the ground instead of up on machine. Dis-tance from ground to top of traveling table only 3 feet 9 inches. The most de-sirable machine made for convenience of Feeder. Feeder

Blower Casing, with Swivel and Tilting Rings. Combination Toothed and Fluted Eeder. The merits of the adjustable bearings are known to all practical operators of ma-chinery. No excuse whatever for the Ross Blower Bearings heating or running hard or consuming extra power. Steel Shear Ear with Four Cutting Edges. This feature is accountable for the class of work turned out by the Ross. Start, Stop and Reverse Lever. This arrangement saves many a break and prevents delays of various natures. Traveling Feed Table. Folds up for convenience in moving from place to place and when, storing away. Steel Cutting Cylinder. This is a point that must not be overlooked. If saving of time and repairs is worth anything, the EOSS SILO FILLER is worth double the price of any other. Steel Blower. No manufacturer likes to hear of their "Cast Iron" Blowers exploding on large size cylinder type Silo Fillers, but it will occur as long as it is made of Cast Iron. If our example was followed, and the Blower made of SOLID STEEL, like THE ROSS, the welfare of Silo users would then be taken care of. Capacity, Durability, Sim-plicity in Construction and Quality of Work have been the principal objects in the construction of Ross Silo Fillers. If these claims are not convincing, order the ROSS SILO FILLER and give it a trial. The results will be far more convincing than our claims. Cutter with

					Traveling Feed E	Extra Galv.	\mathbf{T} wo
		Capacity per			Table and Blower with	Blower	Shredder
		Hour on 1-			30 ft. Pipe and Elbow	Pipe,	Blades,
•		Inch Cut.	\mathbf{Power}		Mounted on Truck.	per foot.	$\mathbf{Extra.}$
Size.	\mathbf{Knives}	Ensilage,	Required.	Weight.	Retail.	Retail.	Retail.
No. 18	4-18 inch	15 to 18 tons	12 to 16 H. P.	2800 lbs.	\$403.75	\$1.10	\$27.00
No. 22	4-22 inch	18 to 22 tons	15 to 20 H. P.	2900 lbs.	471.75	1.25	30.00

ROSSNa50

ROSS No. 30, No. 40, No. 50 and No. 60 CUTTERS and BLOWERS

The knives on flywheel type of Ross Silo Filling The knives on hywneet type of Ross Silo Filling Machines with Blower have made a home for themselves with all their users. This is due to the fact that they possess the required strength and features to enable them to accomplish the work of filling silos in a way that brings comment from all Bealizing the fact that users of this work of filling silos in a way that brings comment from all. Realizing the fact that users of this class of goods expect more and more each year in the line of quality and quantity of work, they possess features fully described in the special catalogue, which we will be pleased to mail, namely: Four-sided reversible steel cutting plate, positive tension to the feeding rolls, special knife adjustment, self-aligning and adjustable main shaft bearings and roller shaft bearings, extra bearings for main shaft, special balanced main frame, etc. frame, etc. Cutter with Traveling Feed Table Blower

		Capacity per			and Blower,		Pipe, Includ-	Two Shredder
		Hour on 1-			Blower Pipe		ing Elbow,	Blades and
	Throat	Inch Cut.	Power	Weight With-	Pr. with Truck.	Pr. without Truck.	per Foot.	Attachments.
Size.	Capacity.	Ensilage.	Required.	out Truck.	Retail.	Retail.	Retail.	Retail.
No. 30	38 sa. ins.	4 to 6 tons	6 to 8 H. P.	800 lbs.	\$220.50	\$184.59	\$0.75	\$14.00
	55 sq. ins.	6 to 8 tons	6 to 8 H. P.	1250 lbs.	295.50		1.00	15.75
	72 sq. ins.	8 to 10 tons	8 to 10 H. P.	1450 lbs.	304.35		1.00	17.00
No. 60	85 sq. ins.	12 to 18 tons	12 to 14 H. P.	1800 lbs.	337.50		1.00	25.75
	The Party of the P	and the second se	· · · · · · · · · · · · · · · · · · ·	200 AU				

THE

Martin Farm Ditcher, Terracer, Gardener

Cuts V-shaped farm ditch for open surface or tile drainage down to four feet. Cleans out old ditches, builds field terraces to stop washing; grades roads, levels, fills. Does the work of 100 men. Two, four or six horses or tractor sizes.

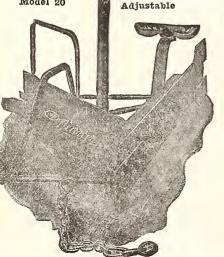
A Machine Every Farmer Should Own

Specifications: Landside 10 inches x 3/8 inch x 91/2 feet, Bessemer steel. Rear guide fins, crucible plow steel. All steel stationary foot-board built in to center of landside. Goose-neck clogless hitch, heavy steel forging extends from draw bar to center of cutting blade. Steel rail handle to control cutting blade. Rolling coulter in front.

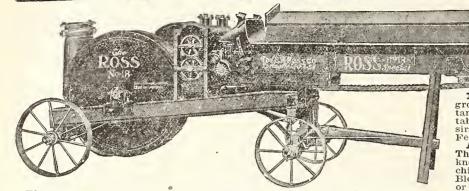
WRITE FOR PRICE.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.





Reversible





4.40 5.20 6-Quart 8.80 8-Quart.... Stuffing At-tachment.. 10.40 1.50 2.40

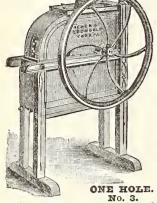
SENIOR.

They have Adjustable Rollers and Feed Regulator and Double Crank. In these Mills the lower rollers are cast with alternate rims and grooves interlocking to draw in the apples. Fruit is mashed between the smooth segments, thoroughly breaking all the cells so that cider is entirely extracted in press. Balance wheels are heavy and mill can be run by power. The mills are very strong. They are made of best material, nicely finished, and are easy to operate. Capacity, 6 to 12 barrels of cider per day. Weight, 390 lbs. List Price, \$75.00; Our Special Price, \$47.50.

						Our Special
					Price.	Price.
No.	1,	weight	50	lbs	\$13.50) \$8 .2 5
No.	2.	weight	65	lbs	. 15.5	0 9.30
No.	3.	weight	90	lbs	26.00) 15.60



BALTIMORE SHELLERS THE



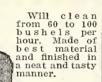
and cob. Separates corn Separates corn and cob. Fan will clean corn for mar-ket. Corn discharged beneath Sheller, cobs at end. Easily adjusted for large or small ears. Capacity, 125 bushels a day. 130 pounds.

Plain, List Price, \$25.00; Our Special Price, \$16.00. With Fan, List Price, \$29.00; Our Special Price, \$18.50.



light running; strong, steel shafts. Capacity, 125 bushels a day. 130 pounds. Flain, List Price, \$25.00; Our Special Price, \$16.00.

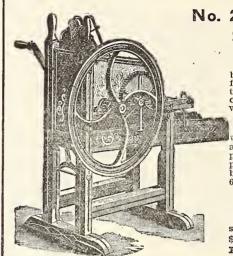
BALTIMORE IMPROVED GRAIN FAN



List Price, \$64.00. Our Special Price, \$40.00.

Sieves, List Price, each, \$3.00.

Retail, \$2.00



No. 20 Double Spout

This sheller is built very strong from the best materials, and has a combination fly-wheel and pulley.

Hand and power, with shaker belt and flywheel. Ca-pacity, 200 bushels per day. Capacity by power, 500 to 600 bushels.

Weight, 300 lbs.

No. 20, with shaker, List Price, \$57.50; Our Special Price, \$35.00.

NO. 20 RED CHIEF GRINDING MILL

COMBINED HAND AND POWER MILL.

No. 20-Power Mill for two-horse engine; tight and loose pulley, best of bronze boxes and cold rolled steel axle, capacity 10 to 20 bushels per day. Has no equal. List Price, \$32.00; Our Special Price, \$20.00.

Corn Sheller Attachment, shells the corn and grinds at the same time, extra. List Price, \$14.40; Our Special Price, \$9.00. List

Table Meal Separator, makes fine meal while grinding stock feed, extra. Frice, \$10.40; Our Special Frice, \$6.50. fine table List

All burrs are as hard as can be made, and all of our mills will grind in a satisfactory No.20 manner dry bone, oyster shells, old china, etc. New Feed Gauge enables the operator to grind fine with-out mill turning hard. New Burrs will grind fine and quick.



"BLACK HAWK" GORN SHELLER





is guaranteed to do good work. It is heavy in construction, with patent ovalshaped teeth, which are so arranged to shell more rapidly and avoid injuring the grain, thus making it safe for shelling seed corn. Adjusts itself to any size ear.

List Price, each, \$4.40; Our Special Price, ach, \$2.75. Weight, 12 lbs.

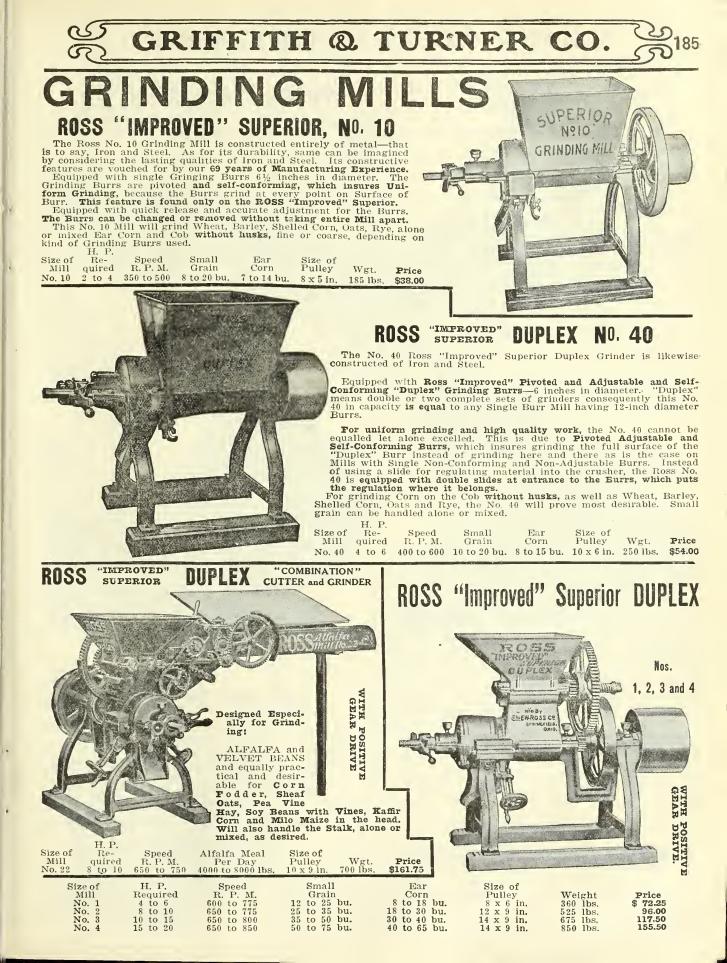
each, \$2.75.



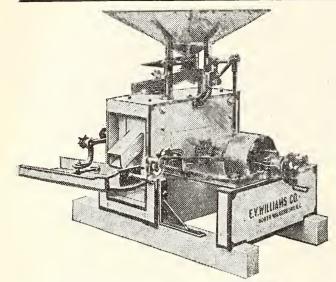
These handles are of great assistance in handling fruit and vegetable baskets.

They are automatic in operation, and the grip is sure. Made from high-grade steel, and will last a lifetime. Handles three times as many baskets in the same time

List Price, 50c.; Our Special Price, 30c.







"Williams" Advance Burr

The cut shows the general design of the "Williams" Advance Burr Mill. Limited space prevents us from giving a full descrip-tion, but we will gladly send a special circular giving full de-

tion, but we will gladly send a special circular giving full de-scription and information. The Mill Body is constructed in the most workmanlike man-ner, from the choicest selected forrest timber, all well dried and very heavy. The Burr Stones used in these mills are the very best Burr stock that can be secured, they are well mated and will give great service without requiring frequent dressing. They are mounted on large steel spindles and perfectly trued and balanced, and are so arranged that they cannot be set too close together, and will not drift together when the grain runs out. The grain hopper is large, with an improved feeding arrange-ment.

ment. The high speed cleaning fan, latest improved folding bolter, the latest and most perfect burr adjustment, makes this the lightest running and nicest appearing mill on the market.

Size of Burns,	Weight.	Speed.	Horse- power.	Capacity per Hour.	Size of Fulley.	List Price.	Write for Special Price.
No. 14"-B No. 16"-B No. 20"-B No. 24"-B No. 30"-B	$\begin{array}{r} 825 \\ 850 \\ 1050 \\ 1400 \\ 2000 \end{array}$	$900 \\ 800 \\ 750 \\ 700 \\ 550$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 4 \text{ to } 8 \\ 6 \text{ to } 10 \\ 8 \text{ to } 14 \\ 12 \text{ to } 20 \\ 14 \text{ to } 30 \end{array}$	10x5 12x6 12x6 12x6 14x6 16x8	\$118.00 138.00 168.00 212.00 278.00	Write for Special Price.



2 3. 4. 5

Alfalfa Belt

Alfalfa water-proof belting is a belt woven especially with a view of obtaining great tensile strength. Nothing but the finest long staple cot-

the finest long staple cot-ton is used. We have been able to develop by the use of the best raw material obtain-able, and by a direct sys-tem of impregnation a fabric belt, which has a breaking strain of 6,730 pounds per square inch, which is equal to, of not in excess of, the breaking strain of any holt that has been pro-duced. duced.

	List.	Our Price.
2-inch, 4-ply 3-inch, 4-ply	.54 ft.	28c. ft. 38c. ft.
4-inch, 4-ply 5-inch, 5-ply 6-inch, 5-ply	1.08 ft.	49c. ft. 76c. ft. 87c. ft.

Gandy Canyas Stitched Belting

Made by the most improved machinery from cotton duck manufactured especially for the purpose.

	4-ply 39c. 4-ply 57c.			4-ply\$1.05 6-ply 1.58	
-in.,	4-ply	ft.	8-in.,	4-ply 1.35 6-ply 2.03	ft.

Prices of Other Widths and Plies to Order.

When Endless Belts are wanted add 7 feet extra for lapping.

Rubber Belting

3- 4-	in., in.,	3-ply55c.ft. 4-ply65c.ft. 3-ply70c.ft. 4-ply82c.ft.		5-in., 3-ply \$0.87 ft. 6 5-in., 4-ply 1.02 ft. 7 6-in., 4-ply 1.22 ft. 8 Special Prices for Cas	tetail. 1c. ft. 2c. ft. 6c. ft. 5h.
		Larger a	nd smaller	sizes on application.	

The most popular sweep power grinder made. Double action; opens like a watch, giving ready access to every part.

No. 6

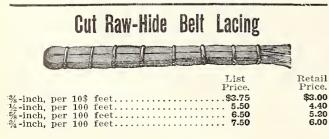
SCIENTIFIC of

Scientific No. 6 New Geared Sweep Mill

Gearing consists of three gear pinions, which revolve on in-dependent chilled stud;. Mill grinds all grains, but is especi-ally effective and rapid on ear corn, and double-action feature, which is applied to these mills, prevents cobs lodging in hop-per at end of a run. Its capacity is 10 to 15 bushels per hour. Weight of mill, 700 pounds. **Price of Mill, with extra plates**, \$48.00.

Scientific No. 5 Triple-Geared Sweep Mill

A triple-geared double-action sweep mill, similar in principle to the No. 6, but about one-third less in capacity, and instead of being provided with baskets for catching ground product, it is mounted on a heavy box, in which the grain is caught. The upper half of the mill does not open on a hinge like the No. 6. Well adapted to grinding ear corn or shelled grain, runs light and does splendid work; weight about 550 pounds. **Price, with one set of Gringing Plates, \$40.00.**





The American Variable Friction Feed Sawmills

American Sawmills are recognized as embodying superior design, the most advanced and up-to-date ideas, superior workmanship, and, in short, they are outfits which have been carefully thought out by designers of wide experience for the purpose of giving to sawmill operators the most practical mills possible.

American No. 1 Standard Sawmill

THE REAL

Our No, 1 Mill is adapted to any power from 6 to 15 H. P. It is war-ranted capable of cutting 2000 feet of board lumber per day with a good 6 H. P. steam engine, if properly handled, and is capable of turning out 7000 to 8000 feet per day with a 15 H. P. engine. Any size up to 52 inches may be used, and the carriage will carry logs up to 36 inches diameter.

A complete Standard No. 1 Mill consists of the fol-lowing:-HUSK FRAME 7 feet by 3 inches, built of 3½ in. oy 7½ in. timbers, fitted with Variable Friction Feed, Polished Steel Mandrel 23/16 in. by 4 ft. 4 in. long. Mandrel Pulley, 20 in. by 10 in. (unless otherwise specified); also Board Roll, Spreader Wheel and Saw Guide Guide.

CARRIAGE 16 ft. long, 26 in. wide, built of timbers $3\frac{1}{2}$ in. by $5\frac{1}{2}$ in., having Feed Rack 22 ft. long. Four Trucks with 6 in. wheels and $1\frac{1}{2}$ in. steel axles. 40 ft. of "V" and Flat Rolled Steel Track, fitted to way timbers framed up in sections. Two Head-blocks, open-ing 34 inches, with Champion Duplex Dogs. "Ideal" Set Works, with Quick Receder and 14 ft. of polished steel Set Shaft; also Belt Tight-ener, foundation bolts, cant hook, oil can and wrenches. Saw is extra, according to size and style selected. Weight of mill as above, 2800 lbs. (If way timbers are not wanted, deduct 450 lbs.) lbs. (If 450 lbs.)

No. 1—Standard Saw Mill. with rack and pinion drive. with-out saw. List Price, Our Special Price, With Wire Cable Carriage Drive. without saw. List Price, Our Special Price, If track with way timbers are not wanted, deduct from List Price \$20.00, from Our Spe-cial Price, If Belt Tightener is not wanted, deduct from List Price \$15.50; from Our Special Price, Write for catalog of larger sizes. AMERICAN WILL SAWS.

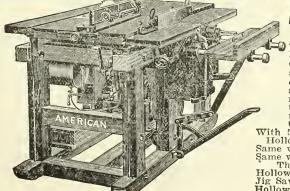
AMERICAN MILL SAWS	s.
48-inch Solid Tooth, List Price.	Our Special
Price	
50-inch Solid Tooth, List Price.	Our Special
Price	
48-inch Inserted Tooth. List Price,	Our Spe-
cial Price	
50-inch Inserted Tooth. List Price,	Our Spe-
cial Price	eur apo

'UP-TO-DATE" SHINGLE MACHINE



It will make shingles, head-ing, box ing, boards, crate slats, etc., equally well. Carriage is very substan-tial, and provided with strong ir a strong iron yoke that will admit saws up

admit saws up to 36 inches in the saw and a convenient gauge are furnished. Capacity from 3,000 to 10,000 shingles per day, depending upon power, character of work and expert-ness of operator. Weight with edger, 625 pounds; power required, 4 to 8 H. P. Complete with edger and 24-inch shingle saw and 8-inch edging saw. List Price, Our Special Price, Without edger. but with 24-inch shingle saw. List Price. saw, List Price.



Combined Lath Machine and Bolter.

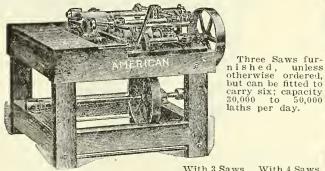
Special Feed for Slats and Dimension Stock.

American Contractor's Portable Variety Wood Worker

A time-saver; a money-maker. Take it right to the job, and do your work on the job, as you want it, when you want it. Built for work, and lots of it. The saw gauge and jointer fence are instantly removable for cutting off long lumber. What it is—a rip saw, a cut-off saw, a mitro cutting off long lumber. What it is—a rip saw, a cut-off saw, a mitro saw, a scroll saw, a Dado machine, a gaining machine, a grooving machine, a rabbitting machine, a tenoning machine, a jointer or planer, a rabbitting machine, a matcher, a molder, a sander, a hollow chisel mortiser. These can be furnished with gasoline engine built in, making them self-contained, or where electric current is available with electric motor built in. Net prices, f. o. b. factory. Complete with Hollow Chisel Mortiser, Boring Attachment and Jig Saw:
 With 5 H. P. Four-Cycle Gasoline Engine and Magneto built in, including Hollow-Chisel Mortiser and Boring Attachment, with Jig Saw.
 Same without Engine and Inside Belt, without Engine.
 The following can be left off and prices deducted accordingly:
 Hollow Chisel Mortiser only (leaving on plain Borer), deduct.

Cant Hooks, No. 318B-2½ in. x 4 ft. Price..... Cant Hooks, No. 318B-2½ in. x 4½ ft. Price..... Peavies, No. 9-2¾ in. x 5 ft. Price..... American Gang Lath Mill

Can be furnished as a lath mill only as shown by illustra-tion or as combined lath mill and bolter. The best machine of the kind on the market, possessing valuable features not found on any other make. It is adapted to cutting lath slats or crate stock of any width from ½ inch to 3 inches of various thickness; also small dimension stock from ½ by ½ inch up to 3 inches by 3 inches.



List Price.....

Price.....

Our Price ..

Price

List Price.....

List Our

With 3 Saws, With 4 Saws.

Our Price.....



APPLETON WOOD SAWS

Appleton Saw Frames are made heavy of hard wood, are mortised and tenoned throughout and fitted with patent dustproof self-aligning babbitted boxes. They are celebrated for their rigidity and durability. Special circular on application.

Common Sense Tilting Table Wood Saw

The most popular style for sawing cord wood. Pulley 6x6 inches, Speed, 1000 to 1500 R. P. M. Weight, 208 lbs.

> No. 1, STEEL FRAME No. 2, WOOD FRAME

No 1 Steel Frame

-	•••	1, 190	. 100	coata	
					\$42.00
					. 49.00
					. 50.10
					. 51.60
					. 53.10
With	30-i	inch	Saw		. 54.60

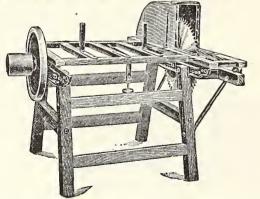
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ME	11 March	A	1-	

Appleton Common-Sense Saw

No. 2, Wood Frame

0	With	out Saw	Blade	.\$43.00
0	With	22-inch	Saw	. 50.00
0	With	24-inch	Saw	. 51.10
0	With	26-inch	Saw	. 52.60
0	With	28-inch	Saw	. 54.10
0	With	30-inch	Saw	. 55.60

SLIDING TABLE SAW No. 7



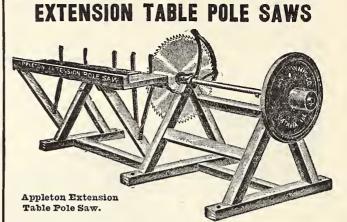
Without Saw Blade...\$50.00 With 22-inch Saw..... 57.00 With 24-inch Saw..... 58.10 With 26-inch Saw.....\$59.60 With 28-inch Saw.... 61.10 With 30-inch Saw.... 62.60

GRITCO CIRCULAR SAWS



These Saws are the result of over 50 years' study and experience. Absolutely the best steel is invariably used and each blade is given a tough, even temper and perfect tension, all of which is essential to the successful running of the saw. The workmanship of these blades is unequaled. The prices given are for saws sharpened and set. We send blades with 1%inch hole on 24-inch and 26inch, and 1½-inch on 28inch and 30-inch.

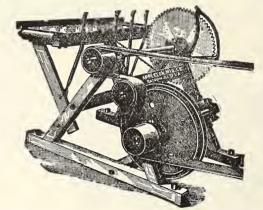
		List Price.	Retail Price.
22-inch. No. 12	gauge	\$11.50	\$7.00
24-inch, No. 11	gauge	13.50	8.10
26-inch, No. 11	gauge	16.00	9.60
28-inch, No. 10	gauge	18.50	11.10
.30-inch, No. 10	gauge	21.00	12.60



The table is so arranged as to extend nearly five feet beyond the saw blade. It makes a highly satisfactory combined pole and cord-wood saw, because the length and arrangement of the table is such as to enable the operator to handle long poles about as easily and rapidly as cord wood. To facilitate handling a roller is placed at one end of the table. Weight, 354 pounds. No. 3, Steel Frame. No. 4, Wood Frame. Steel and Wood Frame Same Piece.

Steel and Wood Frame Same Piece.Without Saw\$44.50With 24-inch Saw......\$2.60With 24-inch Saw......\$24.00With 26-inch Saw......\$41.00

NEW STYLE TILTING TABLE POLE SAW



With this style of saw frame the operator can saw short and long wood with facility, and can saw the longest poles into cord wood, stove wood, or any desired lengths, because the balance wheel is under the frame where it cannot interfere with the longest pole. There is a roller at one end of the tilting table which is a great help in getting long poles on the table.

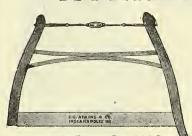
This style saw requires a higher speed than the others. To obtain the best results a 5-inch or 6-inch belt should be used, and when sawing a larger stick than 6 inches through, at least 6 horse-power should be used. Weight, 403 pounds. No. 5, Steel Frame. No. 6, Wood Frame.

Steel and Wood Frame Same Piece.

Without Saw With 24-inch With 26-inch	Saw Saw	65.10 66.60		Saw\$68.10 Saw 69.60



ATKINS' CE EBRA ED



WOOD SAWS No. 617—Wood brace frame; single rivet; painted red; plain tooth; breasted blade; 2¹/₄ inches wide. Our Special Price, \$1.30.

No. 523—Wood brace frame; single rivet; selected stock; high finish; painted red; jumbo rod tinned; Tut-tle tooth; breasted blade, 2¼ inches wide. Our Special Price, \$1.60.

No. 823-Cantilever frame; selected maple stock; fine natural wood fin-ish; jumbo rod tinned; Tuttle tooth blade breasted, 214 inches wide. **Our Special Price**, **\$1.75**.

Wood Saw Bucks, 75c.

Gritco Cross-Cut Saws, Narrow American.

NARROW AMERICAN.

5

Special Prices in Quantities.

Price of Cross-Cut Saws Is Without Handle. Climax Handles, 25c. per Pair.

ORIGNALT WITHE FOOTH

GRITCO CROSS-CUT SAWS, WIDE BACK, AMERICAN.

Wide American Tooth, Silver Steel, 5, 51/2 and 6 Feet. Gauge, 14x16.

-Our Special Price.....\$5.10 ft.-

Tuttle Tooth, Cast Steel. Gauge, 14x16.

5 ft.—Our Special	Price\$4.45
5½ ft.—Our Special	Price
6 ft.—Our Special	Price

Special Prices in Quantities. Price of Cross-Cut Saws Is Without Handle.



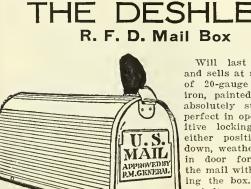
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HAND SAWS.

No. 38-American straight back; plate on handle. Our Special Price, \$1.40 each.

No. 59—Sheffield Saw Works. Skew back; beech handle;
polished edge, 7 to 9 points. Our Special Price, \$2.00 each.
No. 54—Silver steel; beech handle; straight back; polished edge, 7 to 9 points. Our Special Price, \$2.75 each.

No. 53-Silver steel, skew back; carved and polished apple handle, with Atkins' perfection handle. Our Special Price, \$3.25 each. Special Prices in Quantities.



Will last a lifetime and sells at sight. Made of 20-gauge galvanized iron, painted aluminum, absolutely storm - proof, perfect in operation, positive locking signal in either position - up or down, weather-proof slot in door for depositing the mail without unlocking the box. No rivets or bolts required to set it up.

When the patron nails the box on a post this fastens the box so that it cannot be taken apart.

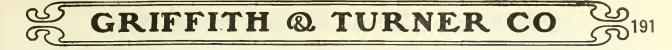
One half-dozen to a crate. Shipping weight, 72 pounds to the dozen.

List Price, \$2.90 each. Our Special Price, \$1.75 each.



	1 1 K 1
List	Special
Price,	Price.
Dozen	Each.
4031-Pressed steel, brass plated, with 2 keys. \$3.10	\$.20
6160—Green enameled, with 2 keys	.30
4012-Wrought metal, self-locking, with 2 keys 3.60	.25
1903—High grade bronze, with 2 flat keys. 7.20	.40
550—Heavy nickel-plated, with 2 keys, 5.25	.30
1902—Bronze metal case, with 2 keys 9.50	.50
4067—Seamless steel shell, with 2 keys 6.00	.40
16022-Wrought steel, six levers, with 2 keys. 6.50	.45
1904—Highest grade brass case, with 2 keys11.00	.60
104 Inghest grade brass case, with 2 keys	
5057-Wrought bronze, three levers, with 2 keys 9.75	.55
16034-Wrought steel, eight levers, with 2	
double fitted drilled barrel keys12.50	.75
1484—All bronze, smooth finish, with 2 keys13.80	.80
1610-Heavy all brass, with chain and 2 hand-	
fitted keys	1.25
9902—Mail lock, no chain	.50
9902 Moil look with chain	.60
9902—Mail lock, with chain	.00





Standard Steel Substructures for Tanks

FOUR-POST SINGLE-ANGLE STEEL SUBSTRUCTURES INCLUDING CAP CHANNELS ONLY AND FOUNDATION RODS AND PLATES.

The single-angle corner posts are spliced together by means of plate connections, to which the struts are also fastened, making a two-bolt connection for each end of the strut. The brace rods are held securely to the corner posts by means of special dropforged eye-nuts which have right and left-hand threads, facilitating the adjusting and truing of structure. We also furnish substructures with flat-punched braces. The corner posts are anchored at the base by heavy rods or bolts built into the foundation piers and extending up through the base plates, upon which the ends of the angles bear directly.



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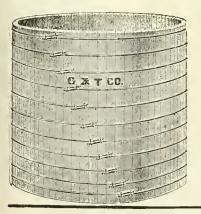
Height	For 6x6-ft. Tank 1053 Gals. Weight, Lbs.	For 8x7-ft. Tank 1980 Gals. Weight, Lbs.	For 8x8-ft. Tank 2618 Gals. Weight, Lbs.	For 9x9-ft. Tank 3786 Gals. Weight, Lbs.	For 10x10-ft. Tank 5237 Gals. Weight, Lbs.
0 feet	. 863	1125	1260	1375	1723
5 feet		1280	1559	1762	$\overline{2}134$
0 feet		1617	1797	1991	2532
5 feet	. 1500	1795	$\bar{2}211$	2382	2908
0 feet	. 1721	2145	2463	2793	3358
5 feet	. 1959	2354	2831	3291	3756
0 feet		2718	3123	3590	4344
teel Platforn	n 196	258	482	663	796
Valkway and	1				
Railing	. 424	469	540	664	706
teel Outside	е				
Ladder		45	45	49	71
700d Inside					
Ladder	. 15	20	20	22	25

PRICES ON APPLICATION.

INSTITUTE OUTFITS

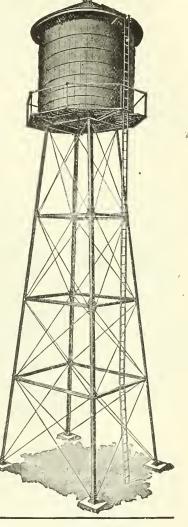
Where a larger quantity of water is required than the capacity of a tank in the Suburban Outfit or where greater elevation than can be obtained in Suburban Outfit is necessary, we can supply an **Institute Outfit** equipped with either Baker or Star Windmill. The tank is crected on a standard substructure and windmill tower is built up from the bottom of the tank, A 15-ft, windmill tower can be erected inside of a 6-ft. diameter tank; a 20-ft. tower inside of a 7- or 8-ft. diameter tank; a 25-ft. tower inside of 9-ft. diameter tank; a 30-ft. tower inside of 10-ft. diameter tank, and 35-ft. tower inside of 12-ft. diameter tank. We would be pleased to submit quotation on

these outfits. These storage tanks are made of carefully selected red gulf cypress. We avoid the use of upland or cheaper grade of cypress, and in getting tanks from us you can rely upon high-grade material and workmanship. Tanks are made with round hoops and draw lugs, which give more strength and which do not rust like flat hoops.



Gulf Cypress Tanks With Round Hoops and Draw Lugs

Longth	Diamotor	PRICI	E LIST.		
Length of Stave. Feet. 3 4 2 2 4 5 4 5 4 5 6 7 6 8 9 8 9 8 10	Diameter of Bottom. Feet. 3 4 4 5 5 5 6 6 6 6 6 7 8 8 9 10 10	Number of Hoops. 3 4 5 5 5 6 5 5 6 5 7 8 7 9	$\begin{array}{c} \text{Capacity,} \\ \text{Gallons.} \\ 110 \\ 220 \\ 283 \\ 472 \\ 598 \\ 693 \\ 882 \\ 1002 \\ 1701 \\ 2016 \\ 2646 \\ 3654 \\ 4189 \\ 5292 \end{array}$	Price 1½-in. Cypress. \$12,90 18.30 22.80 21.60 31.20 35.40 36.90 44.40 49.80 71.40 78.30 91.20 116.70 119.10 141.50	Price 2-in Cypress. \$15.85 22.80 28.20 27.30 39.30 44.40 46.80 63.00 89.40 97.80 111.90 146.40 150.30 179.10
Sizes Lui		on application.			
	:	PLAIN OR CO	NICAL COVE	RS.	
For ta For ta For ta:	nk 8 feet in d nk 10 feet in d nk 12 feet in d nk 14 feet in d nk 16 feet in d	iameter iameter iameter iameter iameter iameter iameter	$ \begin{array}{c} 3 \\ $	00 pounds. 00 pounds. 50 pounds. 75 pounds. 50 pounds. 50 pounds. 00 pounds.	\$15.85 23.40 31.80 43.50 55.20 69.00 82.80



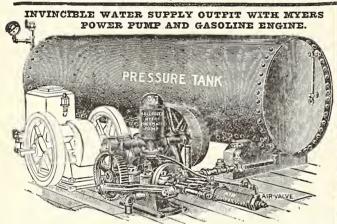
The use of pressure tanks instead of elevated tanks for supplying water under pressure is becoming more and more universal each year. The pressure tank is nothing more than a heavy, carefully made air tight steel tank into which the water is pumped. When the tank is what is commonly called empty, it is really full of air. Into this tank which is full of ar water is pumped and as the air cannot escape from the tank, it is gradually compressed until, when the tank is two-thirds full of water, you have a back pressure from the tank is used and the connections properly made you will have to pump new air into tank in very small quantities. The only reason for pumping air being to replace that which is absorbed by the water and drawn off. To replace this air, different devices are used. Sometimes simply an air cock in the suction pipe of a pressure tank system are its absolute reliability, its simplicity and as these tanks are either placed in a cellar or buried in event ewater water with the end extending into the cellar, the water is kept an even temperature, being neither very hot in Summer or freezing cold in Winter; this is a big advantage in watering stock. It does away with the necessity of having an elevated tank in house which is a big advantage in watering stock. It does away with the necessity of having an elevated tank in house which is a pressure tank on tower outside, which is frequently unsightly and very liable to freeze up in cold weather. freeze up in cold weather.

THE PROPER SIZE TANK TO SELECT.

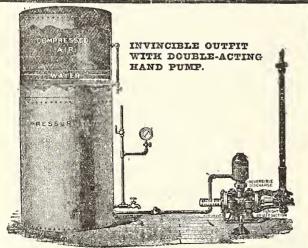
The proper size of tank depends upon the total water consumption and the method of pumping. If the pump is oper-ated by electric motor where reliable current is available, a small tank will give comparatively good service. In a case of this kind, we would suggest a tank with a total capacity of twice the usual daily consumption, although if an automatic switch is used a tank with a total capacity equal to the daily consumption will give good service. Where an engine is used for pumping, we would suggest a tank of a total capacity of not less than twice the number of gallons used daily. In fact, we consider it better to use a little larger tank than this. When you are pumping by hand, we would suggest twice as many gallons capacity as the daily consumption; and, if pumping, by windmill, a tank with a total capacity of from four to six times as many gallons as are liable to be used daily.

INFORMATION BLANK.

We would be glad to mail on application to any one interested in the installation of an **Invincible Water Supply Outfit**, one of our special information blanks which will enable you to clearly give the information which will enable us to intelli-gently recommend suitable equipment.



The above cut shows a popular outfit where water is to be pumped from shallow well, cistern or spring. Price of this outfit as shown, not including piping, consisting of 36''zl0' tank, $1/_2$ H. P. Fuller & Johnson and No. 612 Bulldozer power pump, with air attachment. \$380.00. Prices on this outfit with larger tanks or on similar outfit with special head for deep-well work quoted on application.



The hand outfit shown here consists of an Invincible Pneu-matic Tank with a Myers Double Acting Hydro-pneumatic Pump, which will pump both air and water. This type of pump is suitable for wells not deeper than 25 feet. Price of outfit with a $30^{\circ}x6^{\circ}$ tank which has a total capacity of 220 gallons and an R285A Myers 24_{2}° double acting pump with the necessary valves and gauges. Price complete as described and illustrated with the exception of the piping and pipe fittings, **\$138.00**.

THE KIND OF FUMP TO SELECT AND PROPER POWER TO OPERATE IT.

TO OPERATE IT. While we show here two complete outfits which represent installations which are very frequently made, it is impossible to illustrate in the limited space available, combinations which suit the requirements of every one. The depth of well, the amount of water supplied by it, amount of water required per day, the kind of power most convenient to use and many other conditions make it necessary to give individual con-sideration to each case. In order that we may properly ad-vise our customers as to what they should have, on the fol-lowing pages will be found fully illustrated and described a line of pumps, pumping windmills, engines and electrically driven pumps which will meet all ordinary requirements.

VERTICAL AND HORIZONTAL TANKS.

• Invincible tank 6 feet long and shorter are regularly fur-nished tapped to set vertical. Longer tanks are regularly tapped horizontal. Any tanks, however, can be furnished with either vertical or horizontal tappings and this makes no dif-ference in price of tanks. Wherever it is practicable to use a horizontal tank we consider it preferable.

LIST OF INVINCIBLE TANKS. (Plain Tanks Without Fittings.)

Diameter	Length		Capacity in	List	Our
in Inches.	in Feet.	Weight.	Gallons.	Price.	Price.
*24	5	425	120	\$105.00	\$78.75
*24	5 6	445	145	115.00	86.25
24	8	560	195	140.00	105.00
*24	10	675	245 ,	165.00	123.75
*30	6	560	220 ~	154.00	115.50
*30	8	700	295	189.00	141.75
*30	10	870	365	224.00	168.00
30	12	900 -	440	262.00	196.50
36	6	750	315	206.00	154.75
36	8	900	420	251.00	188.25
36 *	10	1050	525	291.00	218.25
36	12	1200	630	331.00	248.26
*36	14	1400	735	376.00	282.00
42	8	1450	575	367.00	275.25
*42	10	1650	720	429.00	321.75
42	12	1900	865	491.00	368.25
$^{42}_{42}$	14	2200	1000	553.00	414.75
42	16	2400	1150	620.00	465.00
48	10	2000	960	504.00	378.00
48	12	2320	1130	574.00	430.50
48	14	2610	1300	648.00	486.00
48	16	2900	1500	722.00	541.50
48	18	3600	1700	795.00	596.25
48	20	3950	1880	873.00	654.70
48	24	4650	2260	1017.00	762.75

The above tanks are all tested to 125 pounds air pressure. The water storage of the tank is about two-thirds of its total capacity.

Manhead in any of the above tanks, \$12.00 extra net. *Tanks carried in stock.

ACCESSORIES FOR INVINCIBLE PNEUMATIC TANK. Our Price. \$3.00 Water Gauge Pressure Gauge 3.00 . 20.00 No. 18 Double-Cylinder Hand Air Pump.....

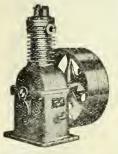
 Myers Hydro-Pneumatic Cylinder, 3-inch, for use with 2½-inch water cylinder.
 18.00

 Myers Fig. 1539 Hydro-Pneumatic Cylinder 3½-inch, for use with 3-inch water cylinder.
 21.00

 Power Air Compressors, see Page 193.

CURTIS GARAGE AIR COMPRESSORS CURTIS AIR - FREE FROM OIL"

GRIFFITH @ TURNER CO



The selection of your Air Compressor has much to do with the success or failure of the service you render your customer.

PURE AIR for your customer means good service, because oil ruins tires, and AIR FREE FROM OIL means fcwer blowouts - fewer punctures - greater tire mileage — less repairs; saves them many dollars up-keep every month.

The Curtis controlled-splash system, with the cylinder lubrication of the controlled-splash permanently regula-ted, insures AIR FREE FROM OIL.

Note these Exclusive Curtis Features

- 1. Controlled-splash, self-oiling system. No excess oil in cylinder, no external leakage nor waste of oil, no oil gets into the tires. Enclosed crankcase keeps out dust.
- 2. Uses about one-tenth of the oil used by any competing machine; saving in oil alone soon pays price of machine.
- High and low level oil-filling gauge, so you can tell at a glance the amount of oil in the crankcase.
- 4. Fan flywheel cools cylinder; increases capacity.
- Inspectable valves; light weight, large area. Valves cannot drop into cylinder and 5. 6.
- wreck machine. 7. Hand unloader permits starting com-pressor against full tank pressure without
- burning out motor, blowing fuses or burning or jumping of belt. 8. Drop forged crankshaft. Adjustable, re-
- newable, non-cutting die cast bearings.



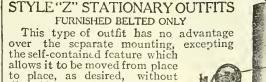
Head removable without breaking or bending any pipe connection or pipe fittings, only one gasket.

Size	1	2	3	4	5
Bore and Stroke	11x2	21x21	24x3	3x3}	43x43
Minimum Speed	500	400	350	300	250
Cu. Ft. Capacity	1.2	1.8	2.99	4.32	10.4
H. P. at 100 lbs	.24	.36	.60	.87	2.09
H. P. at 200 lbs	.31	.47	.78	1.14	2.75
Maximum Speed	700	600	550	500	400
Cu. Ft. Capacity	1.68	2.70	4.7	7.20	16.5
H. P. at 100 lbs	.34	.54	.95	1.45	3.34
Size Pulley	9x13	11x2}	12x21	14x2%	22x41
Shipping Weight	40	60	100	120	385
With Tight Pulley Only		\$37.80	\$47.70	\$50.40	\$108.00
With T. & L. Pulley		41.40	51.30	54.00	126.00
Air Pressure Unloader		16.20	16.20	16.20	19.80

CURTIS STEEL AIR STORAGE TANKS

The prices below do not include the compressor, but the tank, pop valve, gauge and drain cock to which the price of the compressor, as above, should be added for complete outfit, as shown in the cut. These tanks are welded tanks, and are suitable for the pressures specified, can be used either vertically or horizontally. These tanks and fittings are commercially air-tight.

				Ta	nks with	out	Piping		Extras	
Size of Tank	Cap. in Gals.	Usual Size of Com.	of I	W	r 1001bs. orking Press.	W	r 200 lbs. orking Press.	Piping between Comp. and Tank,	For Outlet Cock, Extra Price	Piping for Air Pressure Unloader
				Wt	List	Wt	List	Price	11100	Price
10x30 12x36 14x48 16x60 20x60	17.2 32.1 52.5	1 x2 2 x2 2 x2 2 x3 3 x3 4 x4	mannene 1	35 60 77 117 176	23.40 27.00 39.60	35 60 140 240 340	27.00 57.60	3.60 3.60 5.40 5.40 7.20	\$2.70 2.70 3.15 3.15 5.40	\$3.60 3.60 3.60 3.60 3.60 3.60



disturbing any connections whatever. No Motor, no Starter, no Belt nor MotorPul'y Complete with Motor H Maximum Size Style and Number Size ressure Tank A. C. 60 cyc. 20r3Ph. 110-220 A. C. Motor. Com. In. D. C. 60 cyc. Sg. Ph. 110-220 110-220 Wt. Price | Wt $\begin{array}{c} \hline 130\\ \hline $75.60\\ 77.40\\ 155\\ 84.60\\ 160\\ 99.00\\ 280\\ 99.00\\ 225\\ 102.60\\ 305\\ 115.20\\ 485\\ 169.20\\ 645\\ \hline \end{array}$ 1414 150 10x30 \$171.00 172.80 192.60 194.40 240 265 290 \$142.20 144.00 \$171.00 12x36 10x30 150 172.80 150 $\begin{array}{c} 144.00\\ 192.60\\ 194.40\\ 212.40\\ 216.00\\ 248.40\\ 252.00\\ 264.60\\ 468.00\\ 486.00\end{array}$ 210.60 212.40 10x30 12x36 12x36 14x48 12x36 150 150 315 134.40217.80 221.40 228.60 232.20 310 360 440 410 490 670 920 268.20 271.80 150 150 $279.00 \\ 282.60$ $150 \\
 150$ 14x48 16x60 1 $295.20 \\ 507.60$ 244.80 33 150 16x60 169.20 645 361.80 150 20x60 187.20 745 486 00 525.60 379.80 1020

STYLE "X" PORTABLE OUTFITS

FURNISHED EITHER BELTED OR GEARED, AT SAME PRICE

Portable outfits, complete with tank, give the advantage of storage in addition to portability, and can be wheeled to otherwise inaccessible places.

e and iber	Size Com.	or, H.P.	Maximum Pressure	Size Tank	No Motor, no Starter, no Pinion, nor Belt	Co.	mplete w	A. C.	
K Style and	15x2	Motor,	150	10x30	Price W1 \$ 115.20 215	110-220 \$ 187.20	Sg. Ph. 110-220 \$207.00	2or3Ph. 110-220 \$207.00	Wt.
X-1a X-2 X-2a X-3	15x2 25x2 25x2 25x2 25x2 25x2		$150 \\ 150 $	12x36 10x30 12x36	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$228.60 \\ 232.20$	210.60 246.60 250.20	$246.60 \\ 250.20$	315 365 385
X-3 X-3a X-4 X-4a	$2\frac{1}{2}x3$ $3x3\frac{1}{2}$ $3x3\frac{1}{2}$	14241	$150 \\ 150 \\ 150 \\ 150 \\ 150 $	10x30 12x36 12x36 14x48	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	248.40 306.00	300.60 304.20 336.60 372.60	268.20 271.80 286.20 322.20	375 395 385 670
X-5 X-5a	4 ¹ / ₂ x4 ¹ / ₂ 4 ¹ / ₂ x4 ¹ / ₂	33	$150 \\ 150 \\ 150$	14x48 16x60	264.60 785 273.60 890	513.00	552.60 581.40	430.20 462.60	1105

The prices named above are all List Prices and are subject to a Discount.

WRITE FOR A SPECIAL PRICE

Curtis Compressors are particularly suitable for PNEUMATIC WATER SYSTEMS

NO. 18 HAND AIR PUMP

No. 18 double-acting lever pump 50 inch high, has $3\frac{1}{2}x5$ -inch brass cylinders, and is a very strong, easy operating and desirable pump. Will give a good volume of air in very short time with little effort. **Price.....\$20.00**



Your protection against fire is your preparedness to stop it the instant it starts. The first 60 seconds are VITAL.

Protection means having sure-acting extinguishers handy wherever your fire might break out.

PRONTO gives you this kind of protection-and at a price you can afford.

PRONTO means quick action and the PRONTO EXTINGUISHER is the quickest, surest-acting, most inexpensive, practical extinguisher in existence. So simple any child can use it—nothing mechanical to operate—nothing to go wrong.

Just pull from bracket and dash contents into base of fire—IT CANNOT BE TAKEN FROM BRACKET WITHOUT OPENING THE SEALER CAP.

PRONTO LIQUID is the most efficient fire extinguishing agent known to science. It is twice as heavy as water and can be thrown twenty or thirty feet with great accuracy. When it contacts with fire it instantly spreads a heavy gas blanket under which no fire can live. It stops electrical, oil, gasoline, varnish and other hazardous fires. PRONTO will not injure the most delicate colors or fabrics—it leaves no stains, not even a wet spot.

Put PRONTO in every room—doubly protect the danger spots—the kitchen, the open fire, the cellar, the garage and don't forget the Automobile.

One PRONTO will stop any fire at the start. Six cost less than one ordinary extinguisher and are always ready in six different places.

\$2.00 EACH

INSTANT FIRE PROTECTION EVERYWHERE AT A PRICE YOU CAN APFORD PUT PRONTO IN EVERY ROOM

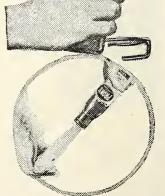
Fire gives no warning. It comes when you least expect it—and usually where you have no protection.

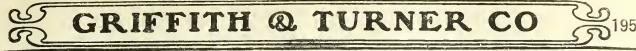
An expensive extinguisher hanging in the kitchen is too late for the fire that starts in a distant room. PRONTO is so inexpensive you can afford one in every room—handy—ready to stop fire QUICK!

INSTALL PRONTO IN THE AUTOMOBILE

Every day along any highway, you see the charred remains of an automobile. Gasoline fires must be stopped instantly. PRONTO stops them before they have a chance to grow.

Install a PRONTO within the driver's reach; one handy to the rear seat and keep one in the tool box for extra emergency.







THE GUARANTEED COLUMBIA STORAGE

The "GUARANTEED" COLUMBIA STORAGE BATTERY is the product of the National Carbon Co., Inc., the manufacturers of the universally known and used COLUMBIA DRY BATTERY. Years of experience in building batteries of all descriptions stand behind every Columbia, backed up by many real improvements in the produce of the produce of the term provements in the produce of the produce of the term provements in the produce of the term of the produce of the term provements in the produce of the term of the produce of the term provements in the produce of the term of term of the term of term of term of term of the term of design and construction which produces a battery qualified to give an unusually powerful and unequalled service. The Columbia "GUARANTEE" is the result of this experience

The Columbia "GUARANTEE" is the result of this experience as expressed in the design and construction—brought to the high-est state of perfection by many years of extensive research work. It is the only "Guarantee" which is based on an actual electrical output for a definite length of time. The Columbia "Guarantee" is not a promise of an adjuster), it is a "Guar-antee" which is not IN FAVOR OF ANYONE,—it is an actual definite "straight" Guarantee covering the life and performance (service) of every Columbia Battery. THE COLUMBIA GUARANTEE.



Every COLUMBIA Starting and Lighting battery (except the SE type) is guaranteed for one year, to be capable at any time during the guarantee period, of developing at least 80% of its original rated Ampere hour capacity. It is furthermore guaranteed when shipped from factory or an Official COLUMBIA Service Station: To contain the full number of plates specified in the type number. To contain the full published positive plate volume and area. To contain plates of the full dimensions and thickness specified. To be free from inherent defects in workmanship and material. The Company WILL MAKE GOOD this guarantee by replacement with another battery in first-class operating condition, should any battery of the types mentioned be returned to the factory or an Official COLUMBIA Service Station, that has failed to fulfill the terms of the guarantee. (The SE type battery is similarly guaranteed for six months.)

A GUARANTEE WITHOUT PAYMENT BY THE PURCHASER FOR FULFILLMENT OF THE GUARANTEE.

When ordering, specify type of Battery, using list, and whenever possible give compartment space available, dimensions and data from name plate of old battery to be replaced.

	place of old batter			1 Alexandre	1	Type	List
Car Year	Model	Type	List Price	Car Year	Model	Battery	Price
Buick	[Battery	Frice	Hupmobile	1		
	D-44, 45, 46, 47	R 311 AZ	\$44.65	-	(N, NL, NQ,)		
1916	D-54, D-55	R 313 AZ	50.95	1916-17		R 313 AZ	\$50.95
1917-18	All	R 311 AE	44.65	1019	$\begin{array}{c} (& N-1, 2, 3, 4 \dots) \\ R & (All) \dots \dots \dots \end{array}$	P 211 AW	44.65
Cadillac	E-45	R 313 AW	50.95	Maxwell	(AII)	())]]]]]]]]]]]]]]]]]	
	14, 51, 53	C 313 DE	\$64.60		25	D 67 MA3	\$59.35
	55		64.60	1918-19	25	D 67 KSA3C.	59.35
	57		64.60	Oakland			0.4.4.05
Chevrolet				1916	32	R 311 AX	\$44.65 4 4. 65
Motor Co.	Dalar Guand	D 010 47	A 4 B 05	1916	50	R 313 AZ	50.95
	Baby Grand		\$47.25 44.65	1017	29	P 311 AE	44.65
	FA		50.95	1918-19	34—34–B	R 311 AO	44.65
1919	490	R 311 AO	50.95	Overland	1		
	490	R 311 AZ	50.95	(See Willys-	6		
Dodge Bros.		D 05 12037	000.00	Knight)	80, 81, 82	D 313 DO	\$47.25
Ford	A11	R 67 KSV	\$63.00	1916	175	R 311 AO	44.65
roru	Starting and]	1916	1 85, 85-6, 86, 83 L	D 313 DO	47.25
	Lighting System				83-B, 83-B.O.E.	D 212 DO	47.25
				1917	85-4, 85-6, 86-B,	D 919 DO	11.20
	Splitdorf		\$59.35 59.35		(90-T, 90-R,)		
	Westinghouse		63.00	1917	{90-CC and De-}	R 311 AO	44.65
	Gray & Davis D. U.		41.50		(livery)	D 211 40	44.65
1916-17-18	Northeast	H 69 YSA8	70.90	1918	90, 85, 85-B-4, 90-B-T	R 311 AU	41.05
	Kemco		47.25	The shared	(50-B-1		
	Heinze-Springfield. Gray & Davis		47.25 44.65	Packard	1 238, 338, 448, 1	D 319 X	\$64.60
	Everready		59.35	1	1 548 125 130		
	Genelite-Lighting		23.00	1918-19	3-25, 3-35	D 319 X	64.60
	Detroit Elec. Weld.		50.95 47.25	Studebaker		D 919 A7	\$50.95
	'Heinz	D 313 AU	47.25	1916	ED, SF, 7 ED, SF, 7. Ser. 17	[D. 313 / ZI	50.95
Hudson 1916	6-40	P 212 AZ	\$50.95				50.95
1916-17-18-19	Supersix	R 313 AE	50.95	ABOVE PRIC	ES SUBJECT TO	20% DISCOUNT	RETAIL.
			DICCI		NA HOT C	HOT BAT	TERY
COLUME	IA DRY CE	LL BAIII	ERIES	COLUMI	BIA NUL S	HOT DAT	

COLUMBIA DRY CELL BATTERIES

These batteries have been the standard for quality for many years. Wherever dry batteries are used the **COLUMBIA** is known to give better service than any other make, regularly furnished in round cartons, as illustrated, but can be fur-nished in square cartons if desired. Where spring connec-tions are preferred they can be furnished at the same price as the screw connections.





Most popular sizes-No. 1462-30 amperes, 6 volts.....\$2.05

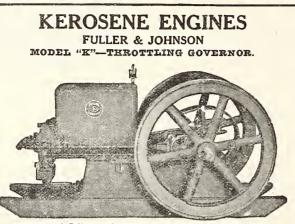
rounded by a water-proof insulating compound. It is

No. 1562-30 amperes, 7½ volts..... 2.55 No. 1662-30 amperes, 9 volts...... 3.10

Other sizes quoted on application.

COLUMBIA HOT SHOT BATTERY is a unit battery in an attractive red, moisture proof cover. Soldered copper strips connect the individually tested cells, which are entirely sur-





3-5-7-9 and 12 HORSE POWER.

Well adapted for electric lighting plants, for use on the farm, or in shops, elevators, mills, creameries, etc., or on con-crete mixers, balers, etc. Has new and improved throttling governor; extra heavy fly wheels which further insure con-stant, steady power, so essential for operating the electric dynamos, cream separators, etc. The engines are beautifully painted and striped in gold, and are mounted on substantial hardwood skids. They may easily be skidded from place to place, or installed as stationary en-gines. If it is desired to mount the engine on a hay baler, well drill, concrete mixer, or other machine, simply remove the skids as the engine is self-contained—that is, the engine is hopper cooled with no pipes or screens, and the fuel tank is mounted in the full base and connected to the mixer above the base line. the base line.

Will run on kerosene, benzine, naptha, distillate, motor

Will run on kerosene, behzine, naptha, distillate, motor spirits or gasoline. Furnished with a heavy galvanized fuel tank; a machine turned plain pulley, which fits on either side of the engine; a good muffler; a sight feed lubricator; large grease cups for the bearings; a full set of dry batteries, and a water-proof spark coil, all wired up and neatly packed in a good battery box, nicely painted; all necessary wrenches; oil can; priming cup; starting crank (except on 12 H. P.); and a complete book of instructions.

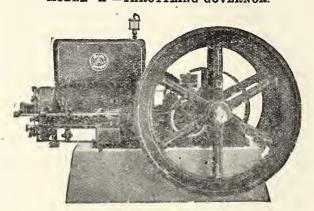
Н. Р.	R. P. M. Speed	Standard Pulley Inches	Diameter Fly-wheel Inches	Capacity . Fuel Tank Gallons	Floor Space Inches	Approx. Ship. Wgt. Lbs.	Price (Battery Ignition) Each
35779	$475 \\ 450 \\ 400 \\ 385 \\ 325$	8x4 12x6 16x8 18x8 18x8	$22 \\ 26 \\ 32 \\ 36 \\ 42$	$2\frac{3}{4}$ 5 $\frac{1}{2}$ 7 10 14	$\begin{array}{r} 35 x 4 3 \\ 40 x 5 2 \\ 44 x 6 3 \\ 48 x 6 6 \\ 46 x 8 0 \end{array}$	$575 \\ 825 \\ 1200 \\ 1700 \\ 2350$	\$155.25 224.25 332.20 465.75 672.75

FRICTION CLUTCH PULLEYS

Size	1½ and 3 11. P. *	Size	5 and 7 H. P. *	Size	9 H. P. to 25 H. P.
5 x 4 6 x 4 7 x 4 8 x 4 10 x 4	\$16.10 17.85 19.55 21.30 23.00	$12 \ x \ 6 \\ 14 \ x \ 6 \\ 16 \ x \ 6 \\ 18 \ x \ 6 \\ 20 \ x \ 6 \\ 20 \ x \ 6 \\ 18 \\ x \ 6 \\ 20 \ x \ 6 \\ 20 \ x \ 6 \\ 10 \\ x \ 6 \ x \ 6 \\ x \ 6 \ x \ 6 \ x $	\$25.30 27.60 29.90 32.20 34.50	16 x 8 18 x 8 20 x 8 24 x 8 26 x 8 28 x 8 30 x 8 32 x 8 34 x 8 36 x 8	642.55 45.50 48.30 51.20 54.05 57.00 59.80 62.70 65.55 67.50 71.30

*Shaft type Friction Clutch Pulley.

KEROSENE ENGINES FULLER & JOHNSON MODEL "K"-THROTTLING GOVERNOR.



15-20 and 25 HORSE POWER.

These larger sizes embody the very latest developments in Throttling Governor Kerosene Engines. They run very smoothly and quietly and at a uniform, steady speed, with a big surplus of power. They operate perfectly on kerosene. Especially suited for installation in creameries, feed mills, grain elevators, electric light plants, etc.

They are regularly equipped with fuel pump so that the large fuel tank may be placed outside the building.

Each engine is furnished with plain pulley; exhaust pot (or muffler when ordered); starting battery; coil, switch; built in, low tension magneto; water gauge; wrenches; cylinder oiler; grease cups; priming cup; supply of cylinder oil and cup grease; oil can; 53 gallon outside connected tank with suffi-cient pipe to connect tank 30 feet from engine.

Pulleys other than those specified below can be furnished, charge being made according to the size of the pulley.

Н. Р.	R. P. M.	Standard Pulley	Diameter Fly-wheel Inches	Floor Space	Approx. Ship. Wgt. Lbs.	Frice Each F. O. B. Factory
$\begin{array}{c} 15\\ 20\\ 25 \end{array}$	$\begin{vmatrix} 300\\280\\260 \end{vmatrix}$	20 x 12 20 x 12 20 x 12	48 <i>"</i> 52 <i>"</i> 52 <i>"</i>	55 x 84 60 x 96 60 x 96	$\begin{array}{r} 3400\\ 4400\\ 5000\end{array}$	\$850.00 1,040.00 1,200.00

MAGNETOS

Any size Models "K" or "N" Kerosene or Gasoline Engines can be equipped with built-in, gear-driven magneto as shown.

Prices to be **added** to price of engine equipped with battery nition. (Magneto furnished with 15-20 and 25 H. P. sizes.) ignition.

LOW TENSION, GEARED MAGNETO

WHEN SHIPPED ON ENGINE

1½ H. P. no batteries\$	11.50
3-5 H. P. no batteries	
7 H. P. no batteries	
9-12 H. P. with starting batteries	25.30

GRIFFITH @ TURNER CO. & JOHNSON ENGINE FULLER PRESSURE PUMP OUTFITS

Farm Pump Engine

Thousands of these out-fits are in daily service and giving satisfaction. The illustration shows the outfit as it comes complete ready as it comes complete ready to attach to almost any make of windwill head pump. In designing this outfit, the manufacturers had in mind a pump-ing engine simple, con-venient and reliable and as venient and reliable and as near trouble proof as possible. Being an air-cooled engine there is no likelihood of it freezing and the way it is constructed it cools properly while doing its work. It comes com-plete as illustrated (pump stand not included). En-gine will pump water from an ordinary well at a rate En-35 five-inch strokes per of minute and has power to lift 550 gallons of water against a total lift of 100 feet or 240 gallons of water against a total lift of 200 feet. If longer stroke is desired the engine can be adjusted to $7\frac{1}{2}$ cr 10-inch stroke.

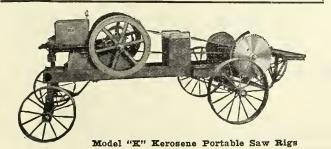
PRICE.....\$109.25



STATIONARY.

STATIONARY. The 1½ II. P. Model "N Engine, although similar in appearance to the larger Model "N" Engines, is slightly different in minor details. The Stationary Engine as shown, is mounted on skids with provision made for the battery box. Gasoline tank is supported between the skids. The pulley fits on either side of the engine. **Regular equipment** with engine consists of gasoline tank in the base, plain pulley, muffler, cylinder oiler, grease cups, battery box, dry batteries, spark coil, switch, and accessories. All packed in one crate.

PRICE.....\$86.25 Magneto is extra, see page 196.

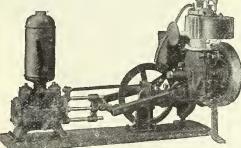


Cutfit No. 320 as shown con-sists of the Farm Pump Engine direct connected to a special 3"x5" double acting, brass fitted, water and air pump. This outfit is es-pecially adapt-ed for pumping water and air into a air pneumatic

pneumatic tank, where the source of 5 .ion and discharge are tapped for 1¼-inch pipe and can Approximate shipping weight, 450 lbe

PRICE, each......\$172.50

FORCE PUMP OUTFITS



The force pump outfit as shown con-sists of the Farm Pump Engine direct connected to a brass fitted, double acting pump of improved design. These outfits are especially suited for pumping water to a higher elevation, such elevated as

voirs, or aginst pressure for watering lawns, washing vehicles or for fire protection. To be used where within suction limit (20-22 ft, sea level). Made in capacities as listed below.

Outfit No.	Bore*and Stroke Pump	Capacity Gallons Per Hour	Total Head Feet	Suction Discharge Pipe Inches	Shipping Weight Lbs.	Prico Each
$\begin{array}{r} 633 \\ 644 \\ 655 \end{array}$	3 x 5 4 x 5 5 x 5	600 gal. 1100 gal. 1700 gal.	125 ft. 70 ft. 40 ft.	$\begin{array}{c cccc} 1 \frac{1}{4} & \text{inch} \\ 1 \frac{1}{2} & \text{inch} \\ 2 & \text{inch} \end{array}$	$ \begin{array}{r} 435 \\ 475 \\ 500 \end{array} $	\$166.75 169.75 172.50

"K"

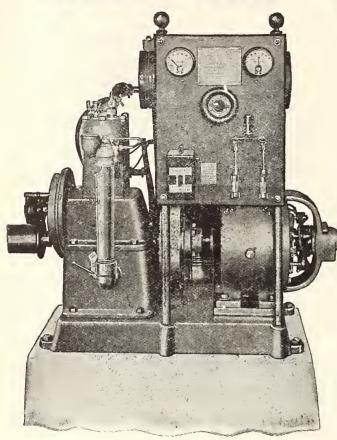
MODEL "K" KEROSENE PORTABLE SAW RIGS This outfit is especially suited for sawing pole or cord wood into stove wood. The truck is very rigid and especially built to stand rough and long hauls. Regular equipment furnished consists of Model "K" Throt-tling Governor Kerosene Engine with plain pulley and other accessories furnished with Stationary Engine, mounted on special long truck with seat and tool box, tongue and with tilting saw table, belt tightener and saw. Shipped comtilting saw table, belt, belt tightener and saw, plete as shown above. Shipped com-

Н. Р.	R. P. M. Speed	Engine Pulley, Inches	Diameter Saw, Inches	Approx. Shipping Weight Lbs.	Code Word	Price (Battery Ignition) Each
5 7 9	450 400 385	20 x 8 20 x 8 20 x 8 20 x 8	24 26 28	$\begin{array}{c} 2050 \\ 2400 \\ 2900 \end{array}$	Song Sort Sour	\$419.75 517.50 677.00

Magneto is extra, see page 196.

Friction Clutch Pulley is extra, see page 196.

GLOBE LIGHT" ELECTRIC PL



The "GLOBE LIGHT" is the one best answer to the demand for a compact thoroughly reliable, easy-to-operate lighting and power system for farm and country homes, pleasure boats, moving-picture theatres and many other purposes.

It is a self-contained '30-volt outfit, the engine, switchboard and generator all being mounted on one base, occupying a floor space of only 14x28 inches. The engine starts at the throw of a switch and will run continuously without attention until stopped.

Every part about the "GLOBE LIGHT" is simply and dura-bly built, it is a practical plant in every sense of the word, the product of one of the oldest established firms of electric lighting engineers in the United States.

Being of low voltage type the "GLOBE LIGHT" is safe to use anywhere. The current is not sufficiently powerful to ignite even the most inflammable materials, it cannot shock or burn, yet it is amply strong to provide clear, white light in abundance and ample power for operating any kind of light machinery. light machinery.

From a standpoint of values, you get more for your money in the "GLOBE LIGHT" than in any other plant on the market. Do a little investigating if you like, and establish the truth of this statement.

The Globe Electric Company was among the pioneer build-ers of individual lighting plants, and the "GLOBE LIGHT" of today is the logical outcome of a broad, practical, successful experience.

SIMPLICITY OF CONSTRUCTION

Observe the extreme simplicity of the "GLOBE LIGHT." Even a ten-year-old boy could understand and operate one of these plants. Yet with all its simplicity the "GLOBE LIGHT" is wonderfully sturdy and durable.

The "GLOBE LIGHT" possesses one striking advantage over other direct connected outfits, it has four bearings; two on the engine and two on the generator. Four bearings as-sures smoother operation and longer life. Vibration is noticeably absent, even at top speed.

The engine is of the automatic type with splash lubrication, a well-balanced crank shaft, extra large and long bearings, oil indicator, and is provided with ample water jacket space to provide proper cooling under continuous service.

The engine is connected to the generator by a flexible connection, insuring a smoothe easy start, and preventing strain on either engine or generator. The engine is started automatically by power furnished by the battery, operating the genera-tor as a motor. Closing the starting switch starts the engine, no hand cranking necessary.

Engine, Generator and Switchboard are all mounted on the same cast-iron base. Batteries are mounted separately, usually on a battery rack, not a part of the regular equipment.

EASY TO INSTALL

The "GLOBE LIGHT" is as easy to install as it is to operate, being all mounted on one base, just set the outfit on con-crete foundation located where you want it, bolt it down and connect the four wires, 'two to the batteries and two to the house lighting service wires, and you can have light and power at once. If your house is wired the service of an electrician is not needed to install a "GLOBE LIGHT." Any man that can run an automobile or a gasoline engine can handle a "GLOBE LIGHT" right from the start by following the simple but complete directions, which are sent with every plant.

STORAGE BATTERIES

The batteries furnished with the "GLOBE LIGHT" are of the Faure type, in sealed glass jars.

There is no particular secret about the manufacture of lead battery plates, but it has always been difficult to make an element that would stand up under electro chemical changes and furnish reliable service. "GLOBE LIGHT" batteries are of pasted type. This type of battery plate has proven most satisfactory for house lighting as the plates do not loose ca-pacity under slow discharge rates of light working conditions.

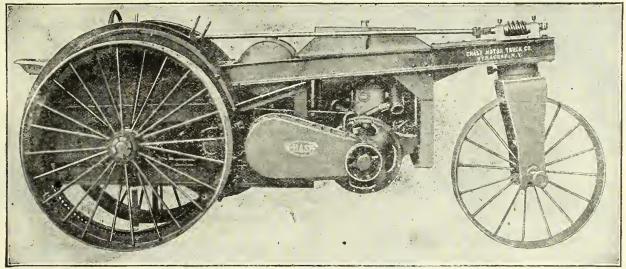
PRICES

D. C. 200-Engine Set, with 16 Cell 90 A. H. Battery....\$535.00 D. C. 203-Engine Set, with 16 Cell 160 A. H. Battery..... 585.00

HE CHASE 9-18 TRACTOR

STURDY, LOW CONSTRUCTION, PERFECT BALANCE, EASE OF CONTROL, WIDE RANGE OF HITCH, PERMIT THE USE OF ANY STANDARD MAKE OF TILLAGE IMPLEMENTS. DOES YOUR FARM HAULING AND FURNISHES POWER FOR BELT WORK.

Can be furnished with single front wheel as illustrated or with double front truck if preferred or can furnish you a com-bination front consisting of center wheel as illustrated with two six-inch face wheels on outside of castor fork.



ONLY TRACTOR THAT TURNS IN A RADIUS OF ITS OWN WIDTH

THE CHASE 9-18 FARM TRACTOR SUCCEEDS WHY

It meets the growing demand for a medium-sized tractor especially suited for the small or medium-sized farm.

It is the product of ten years careful engineering experi-ence coupled with an intimate knowledge of what the pro-gressive farmer expects in a tractor.

It is made by a company known the world over as pioneer builders of motor trucks.

builders of motor trucks. The Chase Farm Tractor is ideally suited for eastern farm-ing conditions. For hill and valley work and rough land it has no equal, while its simplicity of construction and ease of control renders it especially suitable for orchard work and other di. cult plowing problems. It will handle a two gang, 14-inch, or three 12-inch plows under any reasonable conditions, operating anywhere a verti-cle corn binder can be successfully used. It will pull an 8½-foot double acting Disc Harrow, a three-section Spring Tooth Harrow, or a four-section Smoothing Harrow. Or it will

handle equally well a 6-foot double acting Disc Harrow and a two-section Smoothing Harrow in combination. The rear wheels being driven by individual clutches, the Chase will work successfully under conditions where a tractor operated by ordinary differential would stall or mine. For the

Chase will work successfully under conditions where a tractor operated by ordinary differential would stall or mine. For the same reason on slippery ground where one wheel, only, can get a grip, which would be sufficient to stop a machine oper-ated by differential, the Chase will pull out and perform its full duty without delay or hindrance. The driving wheels being outside the frame, it is possible to use extension rims on the rear wheels, increasing their normal width from 12 inches to 22 inches each. The front wheel is so arranged that the axle extends beyond the yoke. Two additional wheels placed on this extension axle, convert the front wheel into a Roller, thereby permitting the tractor to operate on plowed ground with perfect ease, acting as a roller and clod crusher while harrowing or seeding, with no danger whatever of packing the soil.

SPECIFI CATIONS

Wheels.—Front wheel or steering wheel spring mounted, 36 inches in diameter, 8-inch face. Equipped with front exten-sion wheels, 34 inches in width. Rear driving wheels 48 in-ches in diameter, 12-inch face. Equipped with rear extension rims, 22-inch face each. Kind of Fuel.—Gasoline, distillate and kerosene. Cooling System.—Enclosed radiator equipped with fan shroud and powerful cooling fan. Water circulated by centrifugal water pump, having large shaft and bearings. Number of Wheels.—Two driving in rear, one steering in front; with extensions applied to both front and rear wheels tractor becomes a roller covering the entire ground. 84 inches in width.

in width.

and the control of the state of the

der, 4 cycle, water-cooled.

Ignition.—High tension magneto, having set spark equipped with impulse coupling for starting. No batteries.

Carburetor.—Automatic float feed. All air going to the carburetor is cleaned and thoroughly heated by a special cleaning and heating device.

Air Cleaner .-- Centrifugal visible type. Very simple and efficient.

Lubrication.—Automatic splash system and force feed pump, giving positive lubrication for motor.

Transmission.—Chase, two speeds forward, one reverse; slid-ing gear, in oil-tight dust-proof case. Gears operate in oil. Hyatt bearings throughout.

Speed, Miles Per Hour.—High, 2½; low, 1½; reverse, 1. Speed may be changed by a simple governor adjustment. Motor Clutch.—Internal expanding shoe located in engine fly

wheel. Bierman type. Brake.—Powerful contracting band applied to bull pinion

shaft.

Foot Clutches for Driving Wheels.—External contracting band clutches operated by convenient foot pedals, giving indi-vidual control of each driving wheel.

Dimensions .- Length, 111/2 feet; width, 68 inches; height, 57

gasoline Belt Pulley .--- 8 inches in Giameter, 6-inch face; normal speed, 900 revolutions per minute. Adjustable. Draw Bar.—Adjustable.

PRICE, STANDARD EQUIPMENT, \$1,252. 00, PLUS FREIGHT FROM SYRACUSE.

ELECTRIC PUMPS FOR PNEUMATIC PRESSURE WATER SYSTEMS AND FOR ELEVATED TANKS

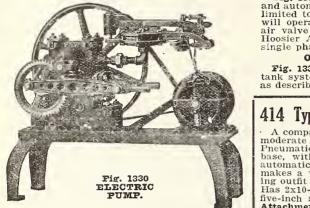


Fig. 1330 illustrates a popular type of electric pump complete with motor and automatic switch for pneumatic tank work. This is a shallow well pump limited to a 25-foot suction lift, has a capacity of 250 gallons per hour and will operate against 50 pounds discharge pressure. Pump is equipped with air valve for supplying air to the tank. The switch used is the Fig. 1350 Hoosier Automatic Pressure Regulator, described below price with 60 cycle single phase 110 volt alternating current motor.

414 Type E. A. C. ELECTRIC PUMP A compact and convenient pump for wells of moderate depth for use in connection with Pneumatic Water Systems. Mounted on iron base, with one-third horse power motor and automatic switch and with air attachment makes a very complete and convenient pumping outfit for ordinary household requirements. Has 2x10-in. brass cylinder, which operates on five-inch stroke. Price, \$160.00. Fresh-Water Attachment, \$8.50.

Hoosier Automatic Pressure Regulator

GOULD'S PYRAMID POWER PUMP

A pump of high efficiency for use where water is not more than 22 feet below pump. The gearing is machine cut of hard cast iron; the crankshaft is of high carbon open-hearth steel; the bearings are lined with best-grade babbit metal; cylinder is best quality hydraulic iron fitted with brass lining; the valves are rubber-disk type on bronze seats, convenient to get to.

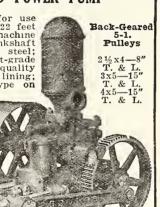
b) only black, containing to get to. Size $2\frac{1}{2}x^4$, suction and discharge $1\frac{1}{4}$ ", capacity 408 gal. per hour. **Price**, \$66.00

Size 3x5, suction and discharge 1½ inch, 280 lbs., 720 gal. per hour. Price, \$90.00

Size 4x5, suction and discharge 2 in., 325 lbs., 1260 gal. per hour. Price, \$107.25

Air Attachment for either. Price, \$16.50

Special circular and prices on larger sizes on application.



The Hoosier Horizontal Double Acting Power Plant

A compact high - grade double a cting horizontal pump for p u m p i n g from shallow wells to pneumatic water supply systems, The No. 414 Type E. A. C.

systems. The whole design of this pump is with a view to compactness, strength and accurate operation. The load is well equalized, has $2\frac{1}{2}x4$ brass-lined cylinder, superior type of stuffing box, back geared four to one; has $10x2\frac{1}{2}$ pulleys, capacity at 50 R. P. M. 510 gallons per hour; $1\frac{1}{4}$ in. suction and discharge; with machine cut gears.

OUR SPECIAL PRICE......\$45.00

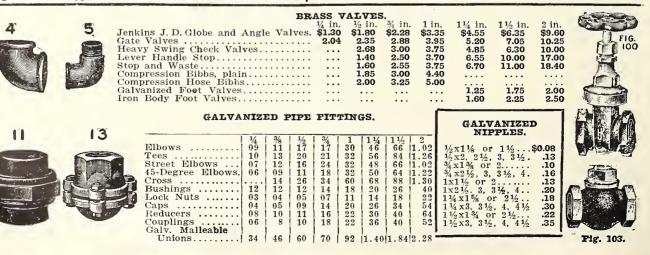


Fig. 398

MYERS PUMPS

Fig 398-Heavy Submerged Cylinder Deep Well Double-Acting Windmill Head Three-Way Force Pump.

An unusually heavy strong pump for deep wells. We recommend it as the best of the Myers Line of Windmill Head Pumps. Can be adjusted to 6, 8 or 10-inch stroke.

Prices of Fig. 398 Pumps.

No. 22 with 3-inch brass-lined lower cylinder.

Our Price.....\$30.75

No. 23 with 3-inch brass lower cylinder.

Our Price.....\$32.50

No. 24 with 3½-inch brass-lined lower cylinder.

Our Price.....\$32.50

No. 26 with 4-inch brass-lined lower cylinder.

Our Price.....\$35.50

R-1072 MYERS HAND PUMP. A very popular cog gear lift and force pump with 3-inch brass-lined cyl-inder inder.

Our Price, \$15.35 **B-1052.**—A lift pump of the same style as the R-172 Lift and Force Pump Pump. Our Price, \$12.50

The Myers Imperial Working Head Fig. 1584.

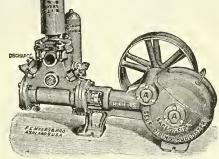
Fig. 1584. This head is a splendid combined outfit for hand or belt power. It can also be used by windmill.' It is made with machine cut gears, back geared 6 to 1 and has 6 and 9-inch strokes. Can be furnished for either 2½, 3 or 3½-inch suction pipe. In ordering state which is wanted. Fig. 1584—No. 389 M y er s Imperial Working Head. Our Price, \$47.00 The Myarc flafiance

The Myers Defiance

Working Head 18.Fig. 1566.



Fig. 1566-No. 388-Defiance Working Head. Our Price, \$38.40.



Myers Self-Oiling Buildozer

Power Pump Patent Applied For Self-Oiling. Pully Enclosed. Back Geared 5 to 1. Re-new a ble Bearings "A."

100 Pound Pressure. Floor Space.

2 ½ x3 Pump, 14"x31" 3 x4 Pump, 18"x37" 4x5 Pump, 24"x46 ½" 5x5 Pump, 24"x48" For General Service.

Fig. 1866.

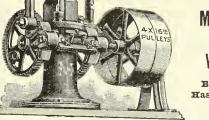
Capacity 500 Gals. at 70 RPM.

No. 612—Myers Self-Oiling Bulldozer Power Pump with Vac-uum Chamber, 2½x3 in. Brass Lined Cylinder, 12x2 in. Tight and Loose Pulleys, 1½ in. Brass Piston Rod, Suction and Dis-charge 1¼ inch. Our Price, §65.25. Capacity 1000 Gals. Per Hour at 70 RPM.

No. 613—Myers Self-Oiling Bulldozer Power Pump with Vac-uum Chamber, 3x4 in. Brass Lined Cylinder, 14x2½ in. Tight and Loose Pulleys, % in. Brass Piston Rod, Suction and Dis-charge 1½ inch. Our Price, %99.00. Capacity 2000 Gals. Per Hour at 65 RPM.

No. 614—Myers Self-Oiling Bulldozer Power Pump with Vacuum Chamber, 4x5 in. Brass Lined Cylinder, 16x4 in. Tight and Loose Pulleys, 1¼ in. Brass Covered Piston Rod, Suction and Discharge 2 inch. Our Price, \$130.00. Capacity 3000 Gals. Per Hour at 60 RPM.

Capacity 3000 Gais. Per Hour at 60 KPM. No. 615—Myers Self-Oiling Bulldozer Power Pump with Vacuum Chamber, 5x5 in. Brass Lined Cylinder, 16x4 in. Tight and Loose Pulleys, 1¼ in. Brass Covered Piston Rod, Suction and Discharge 2½ inch. Our Price, \$143.50. Vacum Chamber must be used when operating pumps at above specified speeds Air Intake Valve for Pneumatic use on any of above Pumps. Our Price, \$2.50.



Myers Bulldozer Power Working Head

Back Geared 5 to 1. Has 5, 71/2 and 10-inch Stroke.

This working head is built especially for deep well work. s construction insures great lifting power, strength and Its capacity.

capacity. The gears are located to one side, so that the work is done on the direct upward motion of the piston, passing down on the angle. This insures great lifting power and light wear. This head is so constructed that by uncoupling the piston and removing the piston rod, a 4-inch plunger can be with-drawn through the head. The pipe is attached to a pipe flange below the air chamber, hence any size pipe from 2 in-ches to 4¼ inches can be used by changing the flange.

PRICE......\$99.00

MYERS ALL BRASS WORKING BARREL OR ARTESIAN WELL CYLINDER

The Fig. 1404 Myers Artesian Well Cylinder is made with four cups and bronze-ball valves. This cylinder should be used with Myers Working Heads where it is desired to draw out plunger without taking pipe from well.

09.9	1.50	Size of	A ROOM & D
Size	Stroke	Piping	Price
21/4) inches	14 inches	21/2 inches	\$33.50
2% inches	14 inches	3 inches	43.30
31/4 inches	14 inches	3½ inches	68.15
3% inches	14 inches	4 inches	85.10
01 02	01.21	ALC: NOT ALC	

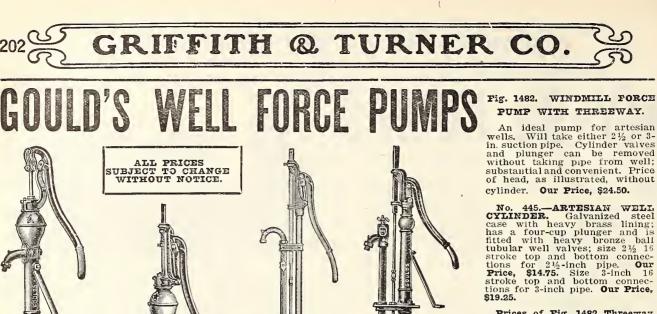


Fig. 1276. Prices of Fig. 1482 Threeway Pump fitted complete with 170. 445 artesian well cylinder with wood plunger rod; rod having heavy forged couplings with screw connection. The plunger and valves can be drawn out for repairs without removing pipe from well. A high-class, reliable artesian well pump.

ize of Cylinde		
nd Well Pipe.	1 a	De
2½-in. 3-in		of V
		40
		45
WRITE		
FOR		
	.	
SPECIAL		
		
PRICES		
		100

PUMP YLINDERS Iron. Brass Lined. Brass. Our Our Our Price. Price. Price. \$7.85 \$9.75 10.90 9.00 \$3.75 7.85 9.00 10.90 9.75 11.75 10.90 12.75 3x16..... 3½x10.... \$5.25 9.00 12.75 $3\frac{1}{2}x14...$ $3\frac{1}{2}x16...$ 10.80 11.65 13.50 4x10..... \$6.90 11.65 18.40 13.50 4x14..... 2½ and 3-in. cylinders take 1¼-in. pipe; 3½-in. cylinders take 1½-in. pipe; 4-in. cylinders take 2-in. pipe.

Fig. 1482.

Easily fixed. Plunger and Check Valve can be removed without taking

pipe from well.

ADDITIONAL FOR FITTING PUMPS

We give below a table of the additional charge for fitting, and the amount stated in table has to be added to the price of the pump selected. In fitting pumps we use galvanized pipe and galvanized pump rod and a strainer foot valve. For wells 26 feet deep or less we leave the cylinder 5 feet below platform. For wells deeper than 26 feet we place the cylinder close to the bottom of the well.

to the bottom of the well.						
Prices Subject With 1 ¹ / ₄ -in. To Change Pipe for	With 1½-in. Pipe for	With 2-in. Pipe for	We Use an	With 1¼-in. Pipe for	With 1½-in. Pipe for	With 2-in. Pipe for
Without 2½-in. and 3-in.	$3\frac{1}{2}$ -in.	4-in.		1/2-in, and 3-in		4-in.
Notice Cylinder	Cylinder	Cylinder	Foot Value	Cylinder	Cylinder	Cylinder
Depth of Well. Pumps.	Pumps.	Pumps.	Depth of Well.	Pumps.	Pumps.	Pumps.
10 feet	\$4.30	\$5.00		\$10.94	\$12.84	\$15.74
12 feet 4.10	4.90	5.80	32 feet 34 feet	11.56	13.56	16.66
14 feet 4.60	5.50	6.60	36 feet	12.18	14.28	17.58
16 feet 5.05	6.10	7.40	38 feet	12.80	15.00	18.50
18 feet 5.55	6.70	8.20	40 feet	13.42	15.72	19.42
20 feet 6.00	7.30	9.00	40 feet	14.54	16.94	20.84
22 feet 6.50	7.90	9.80	44 feet	15.16	17.60	21.76
24 feet 7.00	8.50	10.60	46 feet	15.78	18.38	22.68
26 feet 7.50	9.10	11.40	48 feet	16.40	19.10	23.50
28 feet 9.70	11.40	13.90	50 feet	17.02	19.82	24.42
30 feet 10.32	12.12	14.82	Each additional		.36	.46
			for Fig 1492 Pump			

Special Prices Quoted on Application for Fig. 1482 Fump Head Fitted Complete.

Fig. 852½. "STAR" FORCE PUMP.

Fig. 852½.—Has 3-in. cylinder, 6-in. stroke; recommended for wells 40 ft. deep and less. With iron cylinder—Our Price, \$13.00. With brass-lined cylinder—Our Price, \$15.25. Add for cock spout—Our Price, \$2.75.

Fig. 853.—Similar to Fig. 852½, but stand only without cylinder or pipe below platform. With plain spout—Our Price, \$9.10. Additional for cock spout, \$2.75.

Fig. 423. STAND.

This cut shows stand only. We can furnish this pump with cylinder extended 4 ft. below platform same as

on Fig. 8521/2.

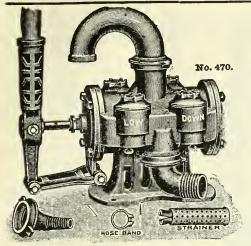
Fig. 423.—Star Windmill Force Pump Stand, 6 or 10-in. adjustable stroke. Stand is provided with cock spout, tapped at the back for discharge or can place T under platform. Has a revolving tight top fitted with air chamber tube and brass packing gland. 'Our Price, \$14.50.

Fig. 426.—Same Pump Stand as Fig. 423, but fitted with four-foot set length and with 3x14 brass-lined cylinder. Our Price, \$19.50.

Fig. 426, with 3 1/2 x14 B. L. Cyl. Our Price, \$21.95.

Fig. 1276.—WINDMILL HEAD DOUBLE-ACTING THREE-WAY FORCE PUMP. A splendid pump, 6-in. hand stroke, 10-in. windmill stroke. Has 3x14 brass-lined lower cylinder. Our Price, \$30.00.





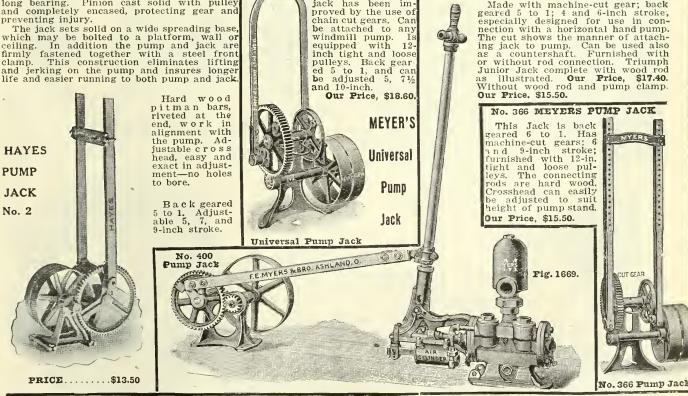
CENTURY LOW-DOWN DOUBLE-ACTING FORGE TANK PUMP No. 268

No. 268 Capacity 2000 gallons per hour, 5-inch pol-ished-iron cylinder, 5-inch stroke, fitted for hose and 2-inch pipe. Valves seats of brass; valves are metal, faced with rubber, and are very conveniently placed, so that they can readily be reached; piston rod is 13-16, drawn polished steel, with heavy brass stuffing nut. Price, with hose nipple, hose attachment, hose band and strainer. Our Special Price, \$17.00.



CONSTRUCTION—Tight and loose pulleys, 24 inch face, mounted on large stationery spindle, one-eight turn takes up all wear— gear and pinion always in mesh. Special ma-chine cast gear, every tooth uniform. Gear and crank disc keyed to revolving shaft with long bearing. Pinion cast solid with pulley and completely encased, protecting gear and preventing injury. preventing injury.

preventing injury. The jack sets solid on a wide spreading base, which may be bolted to a platform, wall or ceiling. In addition the pump and jack are firmly fastened together with a steel front clamp. This construction eliminates lifting and jerking on the pump and insures longer life and easier running to both pump and jack.



ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

LOW-DOWN DOUBLE-ACTING HOUSE FORCE PUMP

Very popular for pumping from cisterns or shallow wells into house tanks. They are furnished with either 2½ or 3-inch brass-lined cylinder, with 5-inch stroke. Three-inch cylinder pump at 46 complete strokes per minute has a capacity of about 12 gallons per minute, and 2-inch cylinder pump has a capacity of a little over 8 gallons per minute. These pumps have rubber-faced metal valves, brace pulse scats and brass coursed picture. brass valve seats and brass-covered piston rod.

Fig.	1372.	No. 286.—3-inch cylidnerOur Special Price, \$23.65	
Fig.	1372.	No. 28521/2-inch cylinderOur Special Price, 23.65	
Fig.	1371.	No. R286 3-inch cylinder Our Special Price, 25.35	
Fig.	1371.	No. R2853-inch cylinder Our Special Price, 25.35	
-		FOR USE WITH PNEUMATIC TANKS.	

Fig. 1669, shown below, illustrates the auxiliary air cylinder used on either Fig. 1371 or Fig. 1372 Force Pump for pumping air with water into our Invincible Pneumatic Tanks. If any of these pumps are wanted, equipped with this air cylinder, add \$5.00.

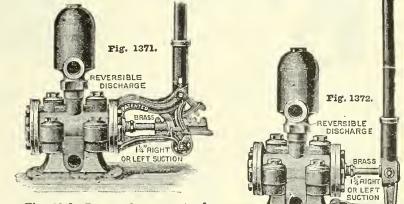


Fig. 1371, Pump.—On account of ratchet or cog gear handle, the lever-age is greater and a direct stroke on piston is obtained. This very popular jack has been im-proved by the use of Made with machine-cut gear; back chain cut gears.

chain cut gears. Can

be attached to any windmill pump. equipped with equipped with 12-inch tight and loose



GLOSED TOP PITCHER SPOUT PUMP

SIZES AND PRICES.



No. 2—Diameter of Cylinder, 3 in.; Suction, 1¼ in. Polished Iron Cylinder. Retail, **\$3.00**.

No. 3—Diameter of Cylinder, 3½ in.; Suction, 1¼ in. Polished Iron Cylinder. Retail, **\$3.25.**

PITCHER PUMP LEATHERS. No. 1—Valve and flat Plunger Leathers, each, **12c.**

No. 2—Valve and flat Plunger Leathers, each, 16c.

No. 3-Valve and flat Plunger Leathers, each, **21c.**

No. 1-21/2-inch Leather Cups, 200

No. 2-3-inch Leather Cups, 25c. No. 3-31/2-inch Leather Cups,

300.

BRASS JACKET DRIVE WELL POINTS

	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	No. 60 Gauge, List Price, Length. Per Doz. 24 in. \$36.00 30 in. 46.00 36 in. 56.00 48 in. 76.00	Price, Each. \$2.00 2.55 3.10 4.20
A BUZE DE	No. of Pipe. I 90 $1\frac{1}{4}$ 94 $1\frac{1}{4}$ 98 $1\frac{1}{4}$ 102 $1\frac{1}{4}$ 136 $1\frac{1}{4}$ 140 $1\frac{1}{2}$ 144 $1\frac{1}{2}$ Malleable Drive (for $1\frac{1}{4}$ -inch Pipe Malleable Drive (Jength. Per Doz. 24 in. \$36.00 30 in. 46.00 36 in. 56.00	Each. \$2.00 2.55 3.10 4.20 2.70 3.35 4.00 5.35 bed, 60c.
10 10		and the second sec	

IXL GALVANIZED STEEL CHAIN PUMP

Being made of No. 24 gauge galvan-ized steel. this pump will not rot, rust nor accumulate filth like pumps of less desirable construction, and it makes the water clear and pure. It is anti-freezing, as the reservoir piece has a small hole, which allows the water to run out. This style of pump is prac-tical for use in wells as deep as 40 feet. The term curb means the complete upper part of pump with fixtures.

PRICES

IX L Curb	. \$7.00
Gem Curb	
Tubing per foot	
Coupling	
Rubber Buckets	
Iron Platform	
Chain, per lb	15

DIRECTIONS FOR FITTING **UP CHAIN PUMPS**

1. Use one foot more tubing than depth of well

2. Multiply length of tubing by two and add 3 feet 6 inches to get proper length of chain.

3. Rubber buckets should be placed 6 or 7 feet apart.

4 See that tubing is held securely by tubing brace at bottom of curb.



No. 2 NATIONAL WATER **ELEVATOR** and **PURIFIER**

Purifies by means of oxygen forced into water.

Price: Elevator, with 25-foot chain and japanned bottom wheel for 10-100t cistern, \$15.00.

Extra chain, 30c. per foot.

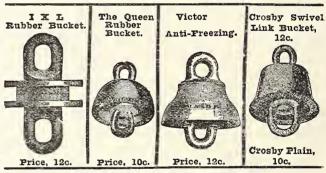
No. 30 STAR WATER ELE-VATOR and PURIFIER

Similar to the No. 2 Water Ele-vator, except that the buckets are slightly smaller, and there is a slight difference in the way the buckets are coupled together. On account of the smaller bucket, it is considered by some better for deep wells

Price:—Elevator and 25-foot chain and japanned bottom wheel for 10-foot cistern, **\$13.50**. Extra chain, per foot, **30c**.

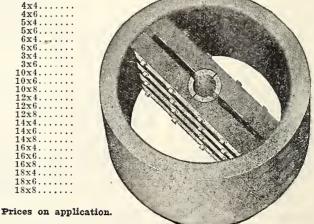
E, Z, BUCKET PUMP OR WATER ELEVATOR

The strongest bucket pump built. It is made of the best No. 24 galvanized steel, painted two coats best gray paint, and varnished. It has roller bearings, and they make the pump work easier, wear longer and run practically noiseless. It has steel top and bottom bands. The buckets are made from the best galvanized steel, roll locked seams throughout. Fixtures are put on the pump complete, avoiding all trouble in fitting. in fitting.



WOOD SPLIT PULLEYS

Practically everlasting; light weight; no glue; no nails; run outdoors or indoors in any climate. The ideal pulley for the farm.











The above prices include roller to prevent injury to sheep, and to assist in placing them in tank, and detachable metal ladder at opposite end to assist sheep in leaving tank and to reach dripping board. Price-List Price, \$38.00. OUR SPECIAL PRICE, \$22.00. Champion Combination Tool, same as above, but has grinding attachment. List Price, \$44.00. OUR SPECIAL PRICE, \$27.00.



" BOSS" WASHING MACHI

Unlike all other Washing Machines, the "BOSS" does not merely soak the clothes nor pound nor tumble them, nor churn the water around and among them.

top is down and the "BOSS" is operated, the two rub-boards oscillate When the top is down and the "BOSS" is operated, the two rub-boards oscillate in opposite directions twice to every revolution of the crank, or 180 times to every turn of the wheel—90 forward and backward strokes every minute. It is this quick double action, and the pressure to the upper rub-board that produces the action similar to the rubbing and squeezing process of washing by the hand method. The clothes, being placed between the two rub-boards, are rubbed and squeezed, rubbed and squeezed, many pieces at a time, nearly 200 times every minute, and it is thus **rubbing—squeezing—suction-creating action** which forcibly drives the hot soapy water through every mesh and fibre and cleans the most soiled clothes so well that after-rubbing by hand is not necessary. When the after-rubbing by hand is not necessary.

Made in three sizes-

Iade in three sizes-			Our
	Capacity	Weight	Special Price
No. 1—Small Family	10 Shirts	100 Lbs.	\$15.00
No. 2-Medium Family	12 Shirts	105 Lbs.	16.00
No 5-Large Family or Hotel	15 Shirts	110 Lbs.	18.00



BOSS'' ENGINE POWER WASHER WITH POWER WRINGER



OUEEN CONVERTIBLE MOTOR

rust proof.

TILKNILL

AREADING,PA

PRICE ...

GEARLESS MOTOR

FOR CITY WATER POWER-Guaran-teed for any pressure over 20 lbs.

Motor is constructed on the turbine Wotor is constructed on the turbine principle of direct action—no gears or racks—only two self-lubricating bear-ings—only two self-lubricating bear-ings—only two self-lubricating bear-tically indestrucible springs—heavy brass cylinder—and parts perfectly ma-chined—perforated metal screen before intake port to prevent anything getting into the cylinder. Consumes less water than most washer motors, and will operate on very low pressure. Dasher post adjusts through top of motor—no projection below dasher. Furnished matural finish—with all improved features.

ASHER

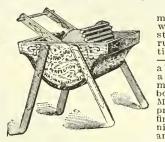
Capacity, 8 shirts. Shipping weight, C0 pounds.

The lever can be fast-ened on top of the mo-tor and used as a hand washer. This is often desirable in winter when surface drainage would result in ice. In case of moving where there is no water pressure, it can be made into a hand-power ma-chine and, of course,

into a hand-power ma-chine and, of course, hand-power Queens can easily be changed to power washers. Durability--While its extreme simplicity adds greatly to its durabili-

ty, no expense is spared to secure the very best materials, of which the White Cedar Tub, which the never rots, is an im-portant item.

screws, are used wherever necessary and all are made durably rust proof, **PRICE** ..\$25.00



An excellent moderate-price washer, con-structed on the rubbing - suc-tion principle --with adjustable cylinder above — removable rubboard below. Made of cy. press; natural finish. Galva-nized castings and hardware.

ONE SIZE ONLY. Capacity, 6 shirts. Shipping weight, 45 lbs. OUR SPECIAL PRICE, \$7.50.

STANDARD PERFECTION

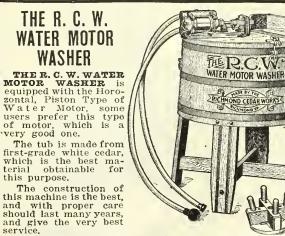
CINCY HIGH WASHER for Hand SPEED WASHER or power

Is operated by lever with high-speed flywheel geared to make 300 revolutions per minute—this ter-rific momentum creating sufficient power to practically run the washer without counting the common The without exerting the operator. The flywheel is grooved so a belt may be used on it, making this a hand and used on it, making this a head and power washer in one. Machine can be directly belted to an engine or line shaft and can be opened or closed without shutting off the power or throwing off the belt. Large cypress tub-matural finish and all improved features. Capacity 8 sbirts. Ship-ning weight 60 the ping weight 90 lbs.

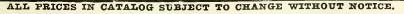


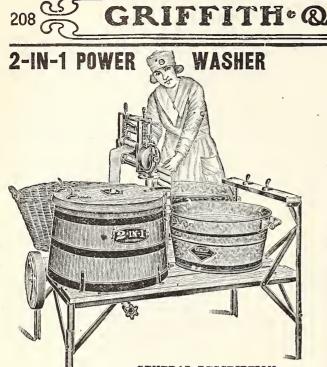
\$25.00

Belt Pulleys, extra, \$3.50. OUR SPECIAL PRICE, \$20.00.



PRICE.....





GENERAL DESCRIPTION

The "2-in-1" Washer consists of tub, swing-ing wringer, bench and two iron stands. The wringer can be operated in four different posi-tion; the entire action of the wringer and washing machine being controlled by push buttons which are at the instant command of the user.

The tub is of regulation size, built of the best cypress that can be had for the purpose and corrugated both sides, inside and bottom, thus presenting a large rubbing surface. The dolly and bottom, thus presenting a large rubbing surface. The dolly or clothes agitator is made of seasoned gum with hard maple pegs securely fastened. The top of the tub or the lid of the machine is so built that you can readily transfer if from the top of the machine into position on frame over any tub, thus converting any tub into a washing machine. It drains from the bottom by means of a faucet. The bench is 4 ft, 2 in. long by 27½ in. wide and extends 12 in. in height from the floor; when complete with tub and wringer in position ready for operation, the entire height over all is 3 ft, 6 in. It will go through any regular size door. Complete, with Wringer. **PRICE**, \$60.00

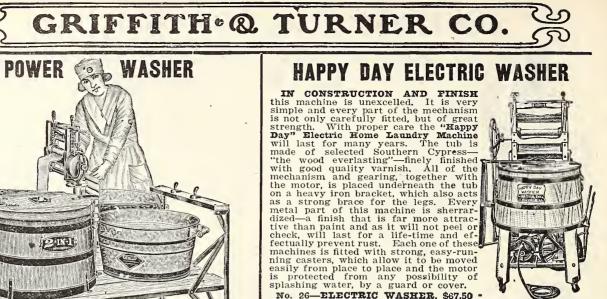
ELECTRIC VACUUM WASHER

THE ELECTRIC VACUUM WASHER is so constructed that it eliminates all the faults of the ordinary washing machine and offers more real practical improvements than any other. The clothes are thoroughly cleansed by means of three large vacuum cups mounted on a vertical shaft that imparts a vicency word down

a vigorous up and down movement to the cups, while by means of an in-genious indexing device the position of the cups is changed at each stroke so that all of the clothes are thoroughly washed. The finest and filmiest articles can be washed without damage, as the cups are perfectly smooth and nothing can catch on them and be torn.



Without Extension Tables, \$3.00 Less. or



CO

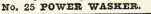
No. 25 HAPPY DAY WASHER Price \$50.00

IN CONSTRUC-TION AND FIN-ISH this machine is unexcelled. It is very simple and every part of the mechanism is not every part of the mechanism is not only carefully fitt-ed, but of great strength. With proper care the "Happy Day" Pow-er Home Laundry Machine will last for many years. The tub is made of selected Southern Cypress—"the wood everlasting"—fine-ly finished with ly finished with good quality var-nish. All of the mechanism a n d gearing is placed underneath the tub on a heavy iron bracket, which also acts as a strong brace for the legs. Every metal part of this machine is sherrardized—a finish that is

DAY ENGINE WASHER 00 PY DA 10111 C

HAPPY

Every metal part of this machine is sherrardized—a finish that is far more attractive than paint and as it will not peel or check, will last for a life-time and ef-fectually prevent rust. Each one of these machines is fitted with strong, easy-running casters, which allow it to be moved easily from place to place. PRICE, \$50.00





ing three extra tubs, are hinged to the sides of frame, and sides of frame, and provide substantial

RANO OT

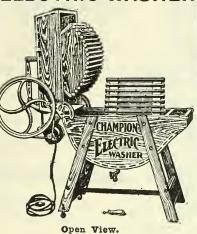
provide substantial for supports for the tubs. When not in tuse, these extensions are folded up close against the tub and are entirely out of the way. The complete machine then occu-pies no more space than the ordinary one-tub electric. No. 29 - FRICE, \$60.00. Without Extension Table, \$3.00 Less.



CHAMPION ELECTRIC WASHER

A high-grade Wash-A high-grade Wash-ing Machine complete with best make elec-tric motor, at such a moderate price that every home can afford to have one. Sold en-tirely on its merits. The Champion Elec-tric is furnished com-plete with motor as

tric is furnished com-plete with motor, as illustrated, and is ready for use by simply screwing the attachment plug into the nearest electric light socket and turn-ing the switch. The machine needs no at-tention whatever machine needs no at-tention whatever while running, and is absolutely trouble-proof, but in case of emergency it can be operated by hand by simply attaching the wheel-handle furnish-ed for the nurnese ed for the purpose.



Consider These Ad-vantageous Features. Metal drain faucet with hose connection. Every drop of water is drained from ma-chine without tilting the tub or splashing the water on the floor,

Rollers on the legs. One person can easily handle the machine and move it about.

Self-adjusting cylinder—makes it possi-ble to wash a large or small load equally as well.

Lower rubboard is removable. Machine can be easily and thoroughly cleaned after use.

Use of motor is not

the washer only—it can be used to operate a churn, ice-cream freezer or any small household appliance adapted for the purpose.

CHAMPION

N

Closed View.

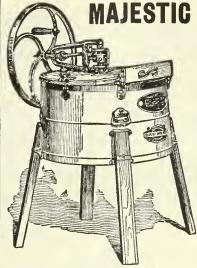
FCTRIC

WASHER

Note Metal Drain Faucet

purpose. The Champion Electric Is Built to Last a Lifetime. The tub and all wood parts are Louisiana Red Cypress—the most durable and satisfactory wood known for washing ma-chine construction. Finished natural with water proof varnish. The mechanism is extremely simple—has no gears or break-able parts. The machine-fit bearings make it noiseless in oper-ation. Inside iron parts and hardware are heavily galvanized and rust-proof





ROTARY WASHER

ELECTRIC WELDED WIRE HOOPS.

VIRGINIA WHITE CEDAR TUB. ROLLER BEARINGS.

This is the lightest-running and easiest-working Washing Ma-chine made. Roller bearchine made. Roller bear-ings; no friction. Works in both directions. Very simple; nothing to get out of order. Nicely cor-rugated on sides and bot-tom. Hoops are galvan-ized wire and are welded by electricity; these are much stronger than the old-style flat hoops, and CANNOT DROP OFF, being sunk in grooves.

OUR SPECIAL PRICE,

\$14.25.

BALTIMORE CEDAR WASHER ELECTRIC WELDED WIRE HOOPS. \$10.00

> Our Special Price, Constructed of best white cedar; improved gearings; all castings japanned. Inside fully corrugated like a washboard; no nails; no crevices for dirt, and allowing no steam and allowing no steam to escape or water to leak. A square gal-vanized-iron rod, in-stead of wood, to work the dolly; this can be lowered or raised without mov-ing tops, Accommo-dates itself automat-ically to quantity of clothes, Impossible to tear the most delicate fabric. Our Special Price, \$10.00.

SUPERIOR WRINGERS

ADEIDEBEST VIRGIAIA WRITEI

CEDAR-

PLOED WIRE HOOPS PAT MAR 24'91 & APR 10'94

Name.	Size of Rolls.	Price.
Superior, No. 21	010x1 ³ / ₄ -inch	.\$5.00
	1	. 5.50
CRESCENT-Sa	me as Relief, but cheaper grade rolls.	5 25
No. 131		5.75
EXTRA ROLLS		
Superior		. 2.00
Superior	· · · · · · · · · · · · · · · · · · ·	. 2.20
677		



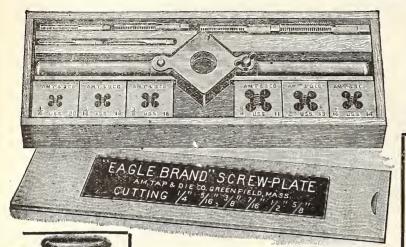
UNIVERSAL WRINGER

The Universal Wood Frame Wringer has Thumb Screw and leaf spring process which is quickly adjusted.

The rolls are the best quality and are warranted for family use for three years. No. 351-Size of Rolls, 11x1,46,...,.....\$6.25

No. 352 Size of Rolls, 12x134....\$6.75





EAGLE SCREW

This screw plate is made especially for the farmer. It is made from the best material, and will be found one of the handiest tools on the farm. All bolts that have become bruised can be rethreaded in a minute, and save lots of time and worry. Can also be used for threading iron rods, which may be used for many purposes. The sizes run $\frac{1}{4}$ in, 5-16 in, $\frac{9}{10}$ in, $\frac{1}{20}$ and and $\frac{9}{5}$ in. These are the sizes generally used. Taps and dies are both included in the price, and the whole outif is packed in a nice wooden bor.

Price.....\$15.00

SILVER & DEMING DRILLS

No. 112. SHORT LENGTH.

Fitting Boynton & Plumer and Silver & Deming Blacksmith's Drill Presses, Nos. 1 And 2, with shanks ½-inch diameter.

Le	ength, Retail,		Length	, Retail,
	in. Pr. ea.	Diam.	in.	Pr. ea.
	4 1/8 \$0.45	13-16	6	\$1.35
	4 1/8 .48	27-32	Ğ	1.40
3-16	5 % .50	7-8	6	1.45
	5 % .55	29-32	ő	1.50
		15-16	6	1.60
1-4		31-32	6	1.70
9-32	6 .65		6	1.80
	6.70	1 1 00	6	1.90
	6 .73	1 1-32		2.00
	6.75	1 1-16	6	
	6.78	1 3-32	6	2.10
	6 .80	1 1-8	6	2.20
	6 .83	1 5-32	6	2.25
1-2	6.85	1 3-16	6	2.30
17 - 32	6 .88	1 7-32	6	2.35
9-16	6 .90	1 1-4	6	2.40
19-32	6 .95	1 9-32	6	2.50
5-8	6 .85 6 .88 6 .90 6 .95 6 1.05 6 1.10 6 1.15	1 5-16	6	2.60
21-32	6 1.10	1 11-32	6	2.70
11-16	6 1.15	1 3-8	6	2.80
23-32	6 1.20	1 13-32	6	2,90
3-4	6 1.20 6 1.25 6 1.30	1 7-16	Ğ	3.00
	6 1.30	1 15-32	Ğ	3.10
25-32	1.00	1 1-2	6	3.20
		· 1 1-4		

The above drills have shanks 214 inches long and 1/2 inch diameter.

CADDIACE

BIT	STOOK
D	RILLS

FOR METAL OR WOOD, No. 109.

1010	METHD	010		100. 100.
The subscription of	Diameter.		Retail Price, Per Dozen.	Retall Price, Each,
1.	2-32		\$1.50	\$0.14
	3-32		1.65	.16
	4-32		2.10	.20
14	5-32		2.60	.24
	6-32		3.10	.29
1.9	7-32		3.60	.33
	8-32		4.10	.38
	9-32		4.70	.43
1	10-32		5.40	.48
1	11-32		6.30	.54
	12-32		7.20	.62
11	13-32		8.00	.68
4	15-32		9.60	.82
	10-32		10.30	.87
1	9-16		14.35	1.20
1	5-8		16.15	1.35
	3-4		19.75	1.65

These Drills will fit any brace on he market. Will drill steel, iron or other metals as well as wood. Will hore any kind of wood without

LUT	HER	POST
	DRIL	L

Luther Post Drills have the feature of higher-priced drills. The frame is built solid, and is well braced. It may be bolted or screwed to a post or an up-right, and holds any ordinary Bit Stock Drill. The work is fed by a hand screw at the top, and can be adjusted to suit the quality of work in hand. When a hole is to be bored in any material, it is very handy to have one of these drills at hand, as it avoids many hours' delay, if you had to carry the work to a repair shop. The size of the work which these drills are capable of doing is altogether according to the hardness of the ma-terial which is being bored and the strength of the person doing the work.

Price......\$6.00.

Length, Inches.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	Length, Inches.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	Lis ^t , 100.	Retail, Each.	List, 100.	Retail, Each.
	1/4		5/16		3%8	H H	1/2		•	1/4		3%8		5/16		1/2	
$\begin{array}{c} 1 \\ 1 \\ 2 \\ 2 \\ 3 \\ 3 \\ 4 \\ 4 \\ 5 \\ 5 \\ 5 \\ 6 \\ 6 \\ 7 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 2 \\ 13 \\ 4 \\ 5 \\ 10 \\ 11 \\ 13 \\ 14 \\ 5 \\ 10 \\ 11 \\ 11 \\ 11 \\ 10 \\ 11 \\ 11 $	S f	03 03 03 04 04 04 04 04 04 04 04 05 05 05 05 05 05	\$2.002 2.12 2.244 2.366 2.488 2.60 2.72 2.844 2.966 3.020 3.324 3.546 3.800 4.048 4.52 0ther Writ Plow Page	.03 .03 .03 .03 .03 .04 .04 .04 .04 .04 .04 .05 .05 .05 .05 .05 .05	2.72 2.884 3.200 3.362 3.684 4.323 4.480 5.12 5.444 5.12 5.444 5.12 5.444 5.12 5.444 5.12 5.444 5.12 5.444 5.12 5.444 5.72 7.04	.044 .055 .055 .055 .055 .055 .055 .066 .066	$\begin{array}{c} 3.86\\ 4.12\\ 4.38\\ 4.64\\ 4.90\\ 5.16\\ 5.42\\ 5.68\\ 5.94\\ 6.20\\ 6.42\\ 6.72\\ 6.98\\ 7.50\\ 8.54\\ 9.06\\ 8.54\\ 9.058\\ 10.16\\ 2.58\\ 10.16\\ 10.16\\ 2.58\\ 10.16\\ 10.16\\ 2.58\\ 10.16\\$	\$.04 .05 .05 .05 .06 .06 .06 .06 .06 .07 .07 .07 .07 .07 .07 .10 .12 .15 .15	1 1/2 2 1/2 3 3/2 4 4/2 5 1/2 6 6/2 7 7/2 8 1/2 9 1/2 10 11 12		$\begin{array}{c} .03\\ .03\\ .03\\ .03\\ .03\\ .04\\ .04\\ .04\\ .04\\ .04\\ .04\\ .04\\ .05\\ .05\\ .05\\ .05\end{array}$.03 .03 .04 .04 .04 .04 .04 .04 .04 .04 .04 .05 .05 .05	1.40 1.52 1.646 1.8800 2.1242 2.3680 2.22480 2.2480 2.228680 3.324 3.68	.03 .03 .03 .04 .04 .04 .04 .04 .04 .04 .04 .04 .05 .05 .05	\$3.00 3.021 3.244 3.66 3.244 4.324 4.546 4.324 4.520 5.424 5.4444 5.4444 5.4444 5.4444 5.4444 5.4444 5.4444 5.4444 5.44444 5.44444 5.44444444	\$.04 .05 .055 .056 .066 .066 .067 .077 .077 .077 .077 .07

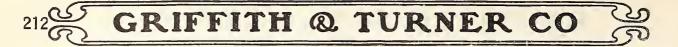
-11 1

All 14-inch bolts are packed 100 in package. All 5/16-inch, %-inch and 1/2-inch bolts bore an splitting.

GRIFFITH @ TURNER CO.

G. & T. Co.'S Farmers' Handy Outfit of Blacksmith's Tools





OIL CANS

We Carry in Stock a Full Line of Oil Cans for All Kinds of Farm Machinery for Harvester and other Oils. See Page 145.



HUSKING PINS



No. 06-Y—Large mule skin finger cot protected with steel washers from wear. Mounted on cold rolled steel pin, nickel-plated, with two compartment finger strap and buckle adjustment

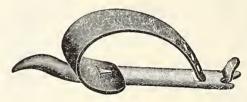
No. 7-Y-Same as 06-Y, with cot more open between the



No. 41—Heavy narrow steel pin nickel-plated, with extra large elk leather shield covering the ends of three fingers or laced to form a finger cot with divided finger strap to support knuckle. Sliding ring making three compartments and buckle



No. 100-Y-Cold rolled steel 4½ inches, nickel-plated pin with split leather shield and double compartment, adjustable finger strap15c.



No. 00X

No. 00X—Clark's "Hickory" Pin 4½ inches long, made of best cold rolled steel, with one compartment......10c.



No. 2700



ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

GRIFFITH @ TURNER CO.



Put the Kinnell Emergency Shoe on Your Horses. Prevents suffering and loss. Just the thing to prevent Horses from breaking legs, causing innumerable falls, delay, suffering and financial loss on account of icy, snowy weather.

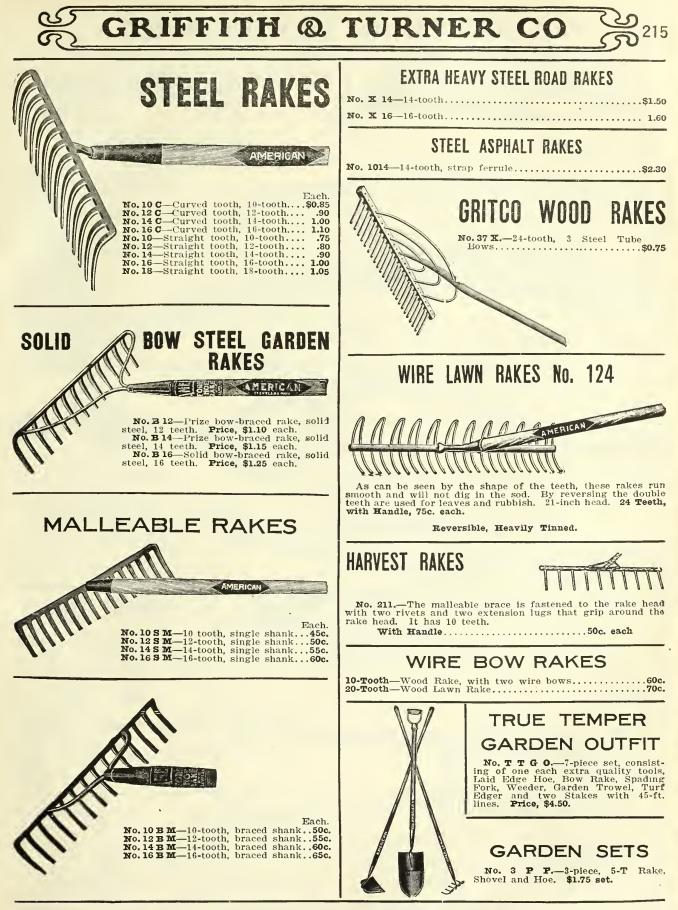
Special Chain Shoes for Mules; small, medium and large. The average 1400-lb. horse requires a No. 5. The average 1600-lb. horse requires a No. 6.

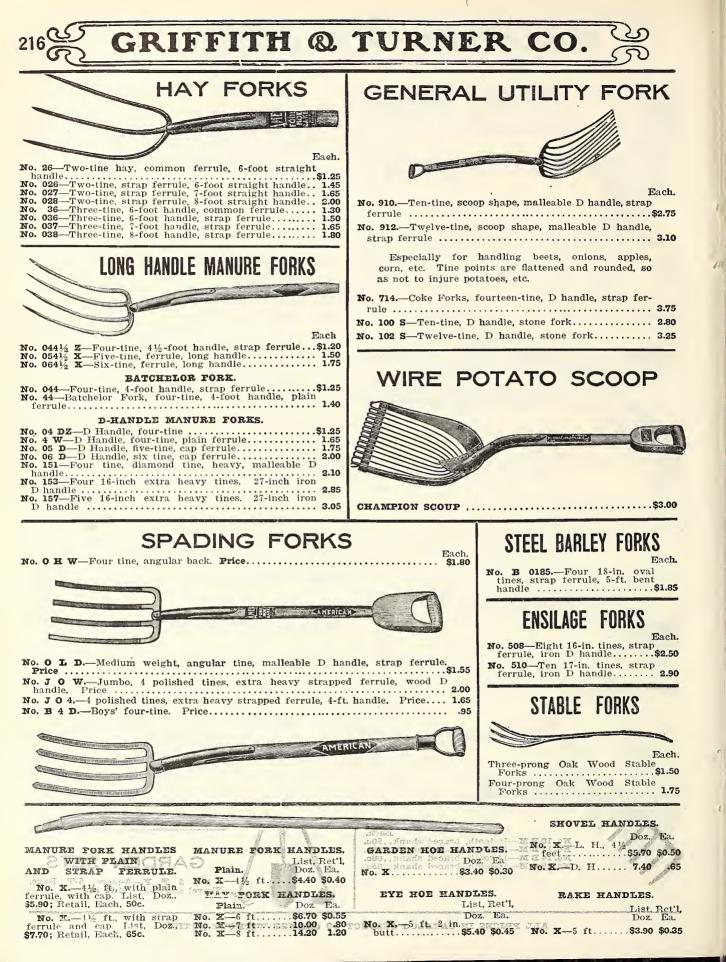
Price, per Set of Four.....\$5.00

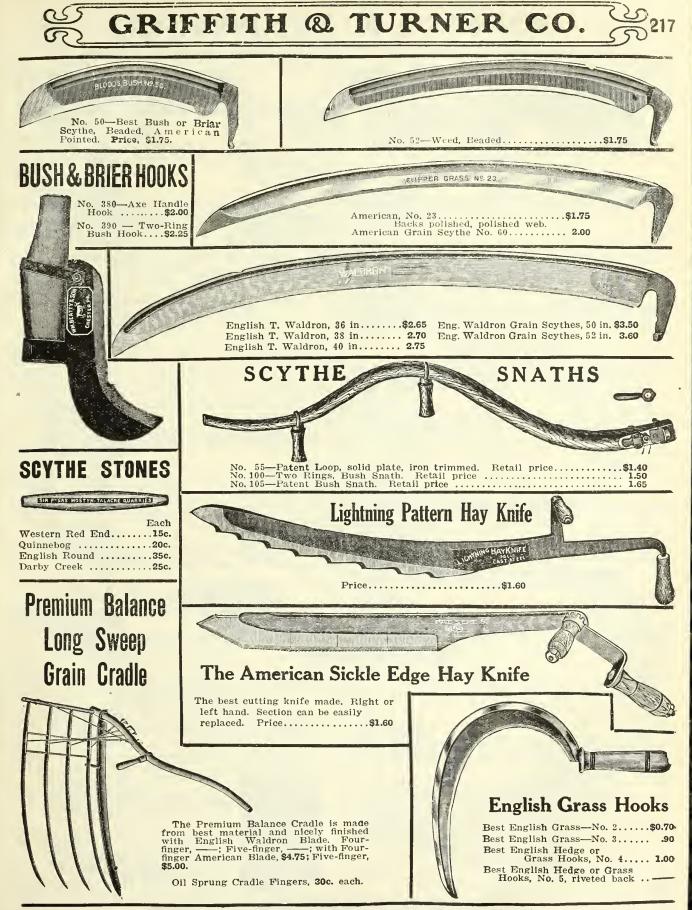
by the flame. Perfectly designed and handsomely finished.

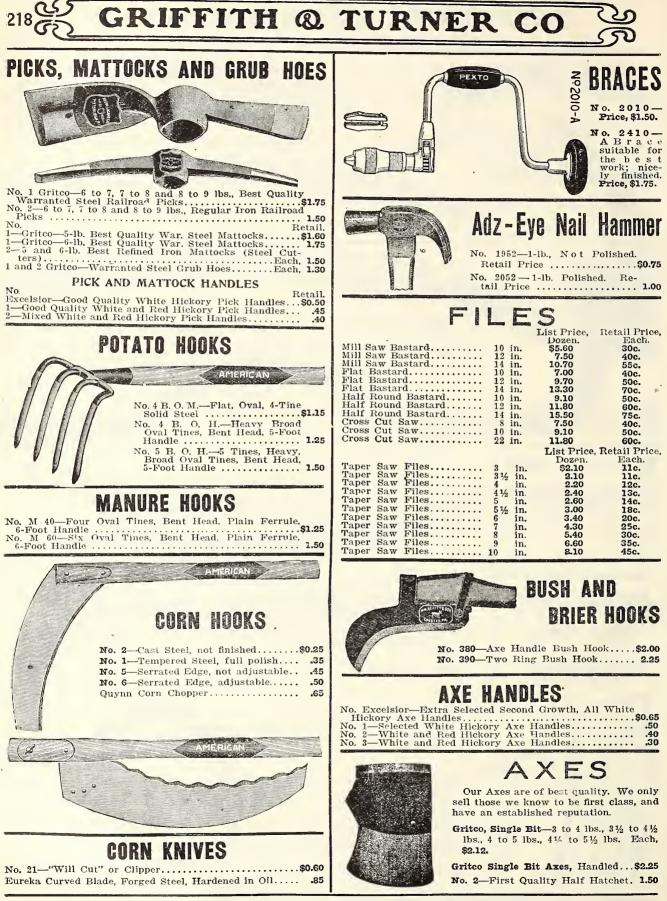
No. 202-2-Burner		17.00
No. 203-3-Burner		22.50
No. 204-4-Burner		29.00
High Shelf for No	. 203	6.50
High Shelf for No	204	8.00

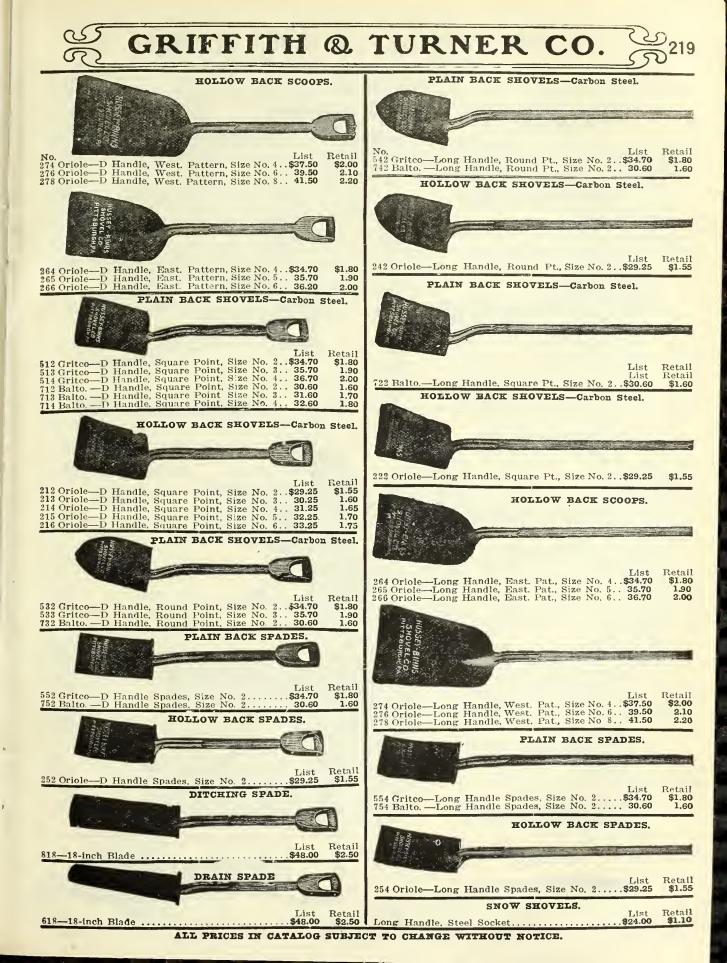








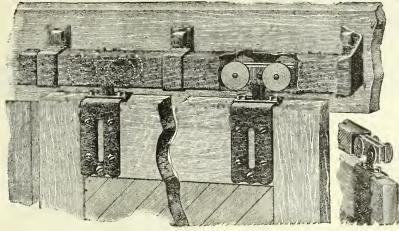








GRIFFITH @.TURNER CO.



TROLLEY ROLLER-BEARING STEEL BARN DOOR HANGER No.

Thoulle Rollen Burner between the No. 25 and 20 is the No. 25 has return apron, as shown in No. 25 cut below, and the No. 20 Las not. Weight, per pair, 10 lbs. Pendant, 6 inches long, 3½ inches wide, 3-16 inch thick. These Hangers have lateral adjustments, and are suitable for doors from 1½ to 2¼ inches thick. Hangers and track are sold separately. A pair of Hangers consists of two hangers and carriers, one right-end bracket, No. 51; one left-hand bracket, No. 50, and one center bracket, No. 52, complete with wood screws for hangers and lag screws for brackets. When ordering always give thickness of doors, the exact width of opening, and state whether for double or single doors. No. 31 track, No. 16 gauge price, per foot, 30c. Hangers, No. 20, per pair, \$2.50.

)

A pair of h a n g e r s consists of two hangers, one each right-and left - hand b r a c k e t s, and one cen-ter bracket, c o m p l e t e, with wood and lag and lag screws. The only Adjust-able Double

No. 24

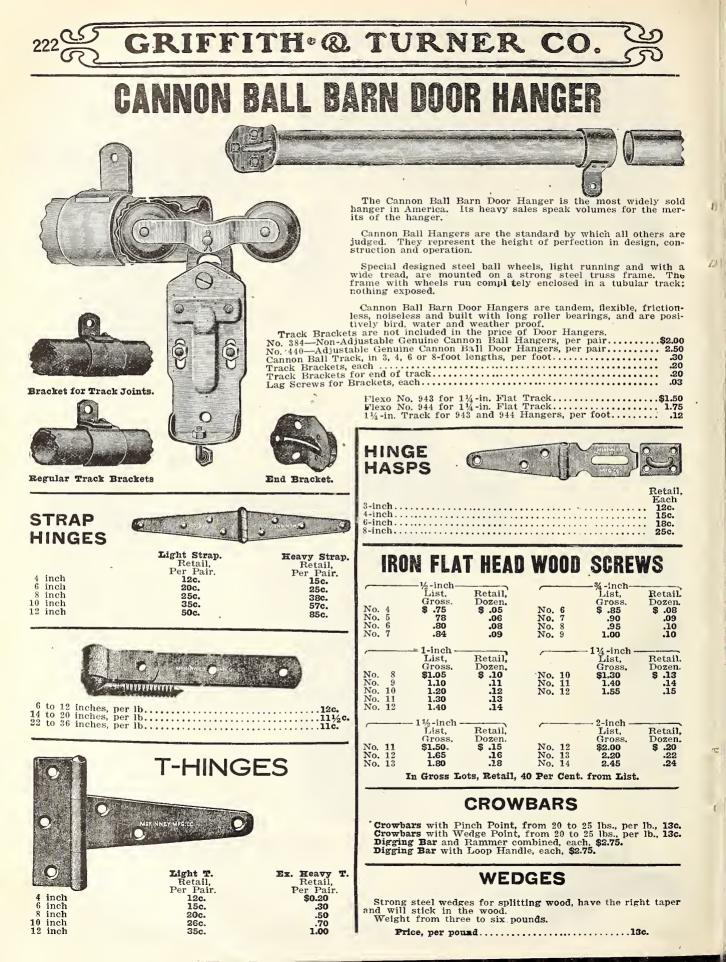
10

Roller-Bearing

Steel Barn and Fire Door Hanger

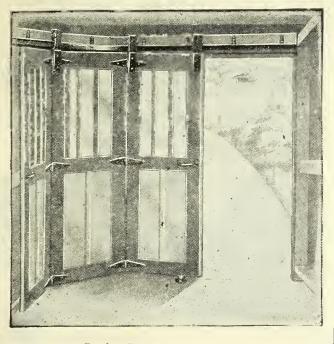
Apron made Suitable for doors weighing 400 to 600 lbs. Adjustment lateral only. No. 1— For doors 13 to 21 junction For doors, 1% to 2¼ inches thick; weight, 12 lbs. No. 2—For doors 2¼ to inches thick; weight, 12 lbs. This Hanger has return or double apron. Per pair, \$2.75. No. 31 Track, per foot, 30c. Per





GRIFFITH & TURNER CO

THE LOUDEN GARAGE DOOR HANGER



Louden Garage Door Hanger

the trolleys to be elogged or derailed. The trolley wheels revolve on hardened steel roller bearings around a tempered steel shaft. Always roll easily. A light push will open or elose the heaviest door.

The Bird-Proof Track is square, not oval. The level tread reduces friction to the minimum and over-



Eoller Bearing Tandum Trolley for Eird Proof Track

eomes the wedging tendeney frequently found on oval tracks which support heavy doors. The form of the Bird-Proof Track and the special grade steel used in its manufacture, eombine to give it wonderful strength and rigidity. It is further strengthened by the eurved lips on the under side of the track. Will not sag under the weight of heavy doors.

Track is made of 14 gauge special steel, is 15% inches wide by 2 1/16 inches deep. Supporting

Operates on roller-bearing trolleys, inside, entirely out of the weather. The door is built in three sections, hugs the corner closely when opening, and lies flat against the inside wall.

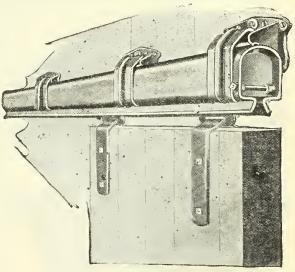
It isn't necessary to open the whole door for walking in and out or to build a special small door for that purpose—one panel of the door swings like an ordinary hinged door.

The outfit complete consists of sufficient track for 6, 8, 10 or 12-foot door, together with the following fittings: 3 special swivel trolley hangers, 6 five-ineh strap hinges, 2 door handles, 2 floor stay rollers, 1 wall stay roller, 1 hasp and staple, 6 dozen screws, ½-pound barbed chisel-point nails. Full directions are furnished with each outfit. Any carpenter can build door and hang properly. Track comes in straight sections which are easily bent to fit building.

Track weighs 1 pound per foot. Fittings weigh 18 pounds. Price, per set, 12-foot door, \$9.75.

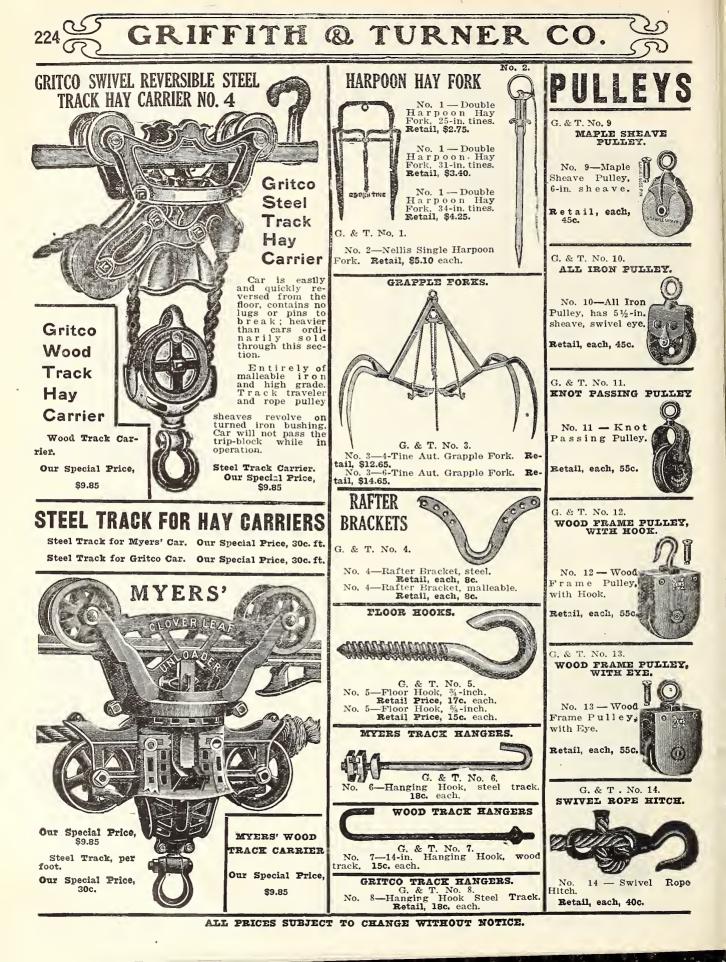
THE LOUDEN BIRD-PROOF BARN DOOR HANGER

Cannot be elogged by trash or birds in summer, or by ice and snow in winter. There is no chance for wheels revolve on hardened steel roller bearings



Louden Bird-Proof Barn Door Hanger

brackets for track of steel with embossed reinforcements. Wall brackets of refined malleable iron. Supporting wall brackets may be placed 36 inches apart; for heavy doors, spaced 24 inches apart. End stops and splices for track packed with trolleys. Track is furnished in 4, 6 and 8-foot lengths. Weight of track, per foot, 13/4 pounds. Weight of supporting brackets, per dozen pair, 9 pounds. Hangers complete. Price, per set, \$2.50. Track, per foot, 333/4e. Extra supporting brackets, 22e. each.





ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



DEN Louden Senior Hay Fork Garrier

Was designed to supply the demand for a heavy carrier that could be used for handling a hay fork in the usual way, and that could also be depended upon to handle extremely heavy loads when necessary

This carrier throughout is built strong and sturdy

This carrier throughout is built strong and sturdy and in addition, its mechanism is simple and sure. It has the wide flaring mouth and the round-topped fork pulley that has been such a popular and distinctive feature of **Louden Carriers** for years. The fork pulley will never fail to register from whatever angle it may be drawn, and the grappling hooks take a deep sure grip on the pulley when the load strikes the carrier and starts into the mow. The Senior is a swivel-frame carrier and is equally efficient whether hay is taken up from the end of the barn, or from a center driveway. When used in a barn having a center drive, when one end of the barn is filled the pulley at the end of the barn, through which the draft rope passes, is carried over and hung in place at the other end. When this is done a swinging jerk on the draft rope, from the wagon or ground, will re-verse the carrier and it will be ready to work in the other end. other end.

other end. Built regularly to operate on Louden Double Bead Steel Track. Total length of carrier, 21 inches. Bear-ing surface on track (distance between front and rear axles), 15 inches. Carries fork within 20 inches of track. Frame of carrier of refined malleable iron. Rope and track wheels special quality gray iron. Safe work-ing capacity, 1500 lbs. Weight of carrier, 34 lbs.

PRICE. .\$13.50 Double Bead Steel Track Per Ft. 333 Cts.

LOUDEN CARRY-ALL SLING CARRIER

LOUDEN SENIOR FORK CARRIER

As its name implies, was built to carry big loads of all kinds of hay. It is the heaviest and strongest Hay Sling Carrier made. For use in any type or size of barn. The Louden Carry-All will handle an entire wagon load at two lifts, if the construction of your barn roof is strong enough to permit it. The rope lock in this carrier is positive and sure. There is no chance for the rope to slip. The lock will not wear the rope, as it grips it evenly. The heavier the load the more securely does the lock hold.

evenly. The heavier the load the more securely does the lock hold. The frame of the **Carry-All Carrier** is of the Louden Swivel Type. It will work with equal satisfaction and efficiency in barns having a center driveway or where hay is taken up at one end. In center-drive barns the change from one end to the other is easily and quickly made. The pulley in one end of the barn is changed over to the other end; the carrier can be swiveled around from the barn floor. No climbing up to the carrier necessary.



Working ca-pacity, 2000 lbs. Weight, 66 lbs. PRICE, \$22.50.

> Louden Grapple Fork The material used in the construction of the fork is a special high-grade steel. The steel is very stiff with just enough spring to it so it will not bend or break under the heaviest work.

Spreads when open, 58 in-ches. Width between outside tines, 19 inches. Tines () into hay 24 inches. Weight, 45 pounds.

\$7.00

51% pounds.\$16.55 PRICT Price \$1.35 DOUBLE HARPOON FORK LOUDEN INTERMEDIATE \$3.80 LARGE. STANDARD\$3.05 LOUDEN DOUBLE BEAD STEEL TRACK

Louden Double Bead Steel Track is a special quality high carbon steel. It is two inches wide, one and seven-sixteenth inches high. If properly supported every twenty-four inches, it will safely carry a load of 3000 pounds. Weight, per foot. 2 pounds. **Price**, 33%c. per foot.



LOUDE

Fig. 467



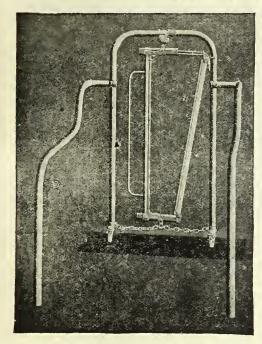
Fig. 495





STAR TUBULAR STEEL BARN

GRIFFITH @ TURNER CO



No. 1A STAR STEEL STALL (Unit System)

The Star Star star start start (onit system) The No. 1A STAR Steel Stall illustrated carries a number of exclusive patented features which should recommend it use to every dairy owner who wants the best the market affords at a price well within reason. By means of the STAR Alignment Device, the cow bed can be actually shortened or lengthened, making the cow stand in proper position with re-gard to the gutter. With this new and very efficient device there are no alignment irons neces-sary and all projections liable to injure the animal have been done away with.

The operation of the **STAR** Alignment Device is as simple as A-B-C-simply raise the lever and move the Stanchion backward or forward, a total possible adjustment of eleven inches. Whether the cow goes into the same stall each time or not makes absolutely no difference, the litter falls into the gutter keeping both stall and cow scrupulously clean.

This stall is fitted with the **STAR** Curb Clamp, which does away with the curble and expense of placing anchors of any sort into the curb. The **STAR** trouble and expense of placing anchors of any sort into the curb. The **STAR** Curb Clamp not only makes the stalls easily changeable when desired, but also reduces the operation of putting them in.

The 434W STAR Stanchion with Automatic Sure Stop is so well known that comment is hardly necessary. It is beyond question one of the best stanchions made—equipped with the one-hand lock, which operates instantly and surely, and fitted with a wood lining which, owing to the method of set-ting in the U-bar, does away with the possibility of the animal loosening it through use. The Automatic Sure Stop is self-operating and positively pre-vents the cow putting her head into the wrong opening when entering the stall. Being adjustable, the 434W Stanchion will fit the neck of any size animal.

Complete Mangers or Manger Partitions, Water Bowls, or Name Plates can e added to the **No. 1A STAR Steel Stall** at any time desired. The construction of this stall is typical of all **STAR Sanitary Barn Equip**be

ment. The stall frame or arch is of first quality steel tubing, one and eleven-sixteenths inches O. D. It has smooth, graceful curves and no corners—no couplings or other dust and dirt catchers. It has twice the strength required

This stall is assembled before shipment. Its installation is so simple that it can be done by any man who can handle a wrench. Furnished regularly in 3 ft. 6 in. Weight, 82 lbs. Other widths to order.

PRICE:

No. 1A STALL

No. 1A Stall as shown in cut. No. 1B Stall same as above, but without the Alignment Device...... 11.50

Price

COW BOWLS OR WATER BOXES

With the installation of improved cow stable equipment, these cow bowls, with automatically regulated supply, are being extensively used. A watering device of this kind should be in every stable.

New Oval Bowl, 12x734 ins., 7 ins. deep, 2 gal., weight 111_2 lbs. Our Price, Plain, \$2.75; Our Price, Porcelain, \$3.10.

Large Oval Bowl, 18x9 ins., 8 ins. deep, 3^{1/2} gal., weight 23 lbs. Our Frice, Plain, \$4.15; Our Price, Porce-lain, \$5.10.

Round Bowl, 10½ ins. diameter, 8 ins. deep, 2 gal., weight 11 lbs. Our Price, Plain, \$2.60; Our Price, Porce-Price, Plai lain, \$2.75.

Round Bowl, 12% ins. diameter, 7% ins. deep. 3 gal., weight 15% lbs. Our Price, Plain, \$3.00; Our Price, Porcelain, \$3.25.

2-gal. lids for round bowls. 0117 Price, \$1.00 each. 3-gal. lids for round bowls. Our Price, \$1.00 each.

2-gal. lids for oval bowls. Our Price,

\$1.00 each. 3½ gal. lids for oval bowls. Our Price, \$1.00 each.

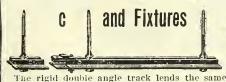


State whether holes to be tapped in bot-tom or side.

12

Large Regulator (complete), 28 x 10 x 9 inches deep; weigh 34 lbs. Price, \$15.00. weight,

All tapped for 1-in. pipe.



The rigid double angle track lends the same ease of operation to all Star Carriers. Star track is rigid and will not bend or buckle. It will support the heaviest load. Price, per foot, with splices, **27c.** Weight, per foot, 2 lbs. By means of the lag screw hanger Fig. 414 the track may be adjusted to perfect level, even if the joists do not hang evenly. These hangers are made in several lengths. Price

$0\frac{1}{4}$ -in., per doz., av. wt., 3 lbs



LITTER CARRIER STAR

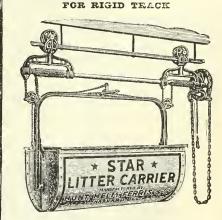


Fig. 333 The carrier pictured above is the fastest and easiest raising and lowering carrier made. The main shaft is supported at four points, all roller bearing, and the large drive wheel fitted with an endless chain is attached directly to it, no gearing or cogs to become worn or loose. Its very simplicity commends it to the man of practical mechanical knowledge, as there is nothing about it to get out of repair. The large tracker wheels are roller bearing and run on a rigid track. It runs easy. This, like all Star Carriers, has a rigid bail which holds the tub in shape and insures per-fect working of the locks at both ends. The tub is of heavy galvanized steel, re-inforced with angle bars. Price,

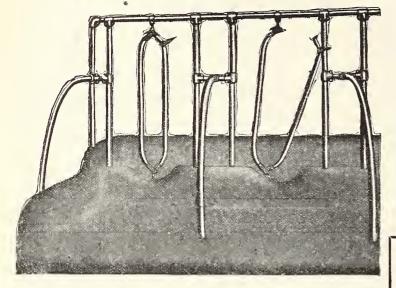
Price.

With No. 4, 8 bu. Tub, wt., 90 lbs. \$40.25 With No. 6, 10 bu. Tub, wt., 100 lbs. 42.35 With No. 8, 12 bu. Tub, wt., 130 lbs. 44.90

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.



THE LOUDEN DOUBLE POST COW STALL FIG. 812



Louden Double-Post Cow Stall. Fig. 812

Is well built, strong and durable and of neat design. It insures the comfort of the cow, is plain, smooth, and simple in construction. It is easy to clean and keep clean, thus filling all requirements of an up-to-date cow stall.

The stall posts, stall partitions, top-rail and cross braces, are all made of the best quality of 1% O. D. steel tubing. The standard width of the stall is 3 feet, 6 inches, but this may be varied to suit requirements and the top-rail will be cut to suit. The total height above the stall floor is 5 feet, 3 inches. The standard height of the manger curb at the sides is 11 inches and at the bottom of the cut-out where stanchion is anchored is 6 inches. The stall posts are 5 feet 5 inches long, and with the standard High-Built-Up Curb they go 15 inches into the cement. The stall complete with Tubular Stanchion and 42 inches of top-rail weights 70 pounds.

Price, complete, \$15.90.

THE LOUDEN TUBULAR STEEL STANCHION

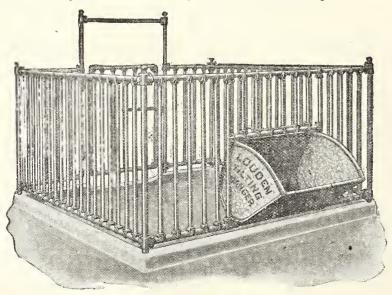
The best stanchion ever built, is the one we recommend and furnish with stalls unless otherwise specified. If preferred we will furnish our

Wood-Lined Stanchion at the same price. All parts of the stall and stanchion, except the U-bolts which are sherardized, are finished with our Dairy Barn Paint, or will be galvanized at an additional cost, if ordered.

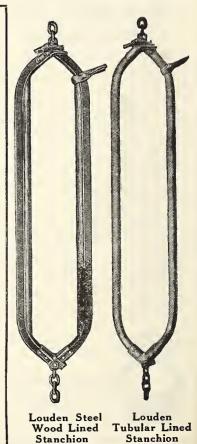
Price of Stanchion With Guide, \$4.00.

LOUDEN STEEL PENS

Keep the animals clean, healthy and contented, and protect them from injury. Special designs for maternity cows, bulls, calves, hogs, sheep or sick animals. Lighter, airier, stronger, easier to keep clean than wooden stalls. Each pen is furnished with a type of manger or trough suitable for its particular requirements. Pens are all constructed of high-grade tubular steel of the size best suited for the strength required. All connections are of the regular Interlocking, Dust-Proof type, entirely smooth and sanitary. Painted with our Special Dairy Barn Paint, or galvanized if specified. Write for prices on the different pens.

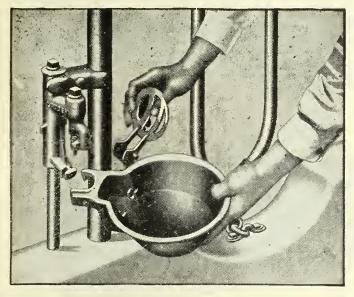


Louden Animal Pen



GRIFFITH @ TURNER CO

THE LOUDEN DETACHABLE WATER BOWL



Louden Detachable Water Bowl

Is without a doubt the most convenient, neatest in design, most sanitary, simplest in operation and strongest built of any water bowl ever placed on the market. One of the hardiest features embodied in this bowl is that of removing it for pouring out the contents. All that is necessary for the operator to do is to raise the nose niece into a vertical position-lift up the bowl and slip it off -absolutely no set screws that are so often rusted, or the releasing of a supporting lever as is required with the ordinary bowl.

Bowl is constructed of heavy gray iron of excellent quality, with brass valve rod, valve seat, and valve spring. Bowl is constructed to fit $\frac{3}{4}$ -inch supply pipe. No inlet pipes furnished. Bowl can be attached to $1\frac{1}{4}$ -inch or 1-inch pipe supports. In addition, it can be attached to wood posts if so desired. No special plumbing fittings are necessary in setting up bowl. Operation is simple and always dependable-cow pushes down release valve with her nose and the water immediately begins to flow. No danger of bowl overflowing. No labor and very little attention is needed upon the part of the attendant. Price, \$4.95

Weight, 111/2 pounds.

THE LOUDEN WINDOW VENTILATOR

Makes possible an abundance of fresh air in the barn without injurious draughts. Fresh air is necessary for the comfort and health of the stock as fresh water and pure food. According to experts the average cow consumes more pounds of air than she does of either food or water. A 1000-pound cow consumes about 224 pounds of air daily.



Louden Window Ven'tilator

04 Doften

The Louden Window Ventilator is made in different sizes to fit any window where sash does not exceed 42 inches in height. Special ventilators for higher windows can be furnished on special orders at slight additional cost. Fixtures include two shields, two dogs, two braces, 1 catch and 1 keeper, 22 screws and 2 rivets. Shields are galvanized. Price, \$4.00



Louden track is made of the finest and strongest highcarbon steel and is especially adapted to carrying heavy loads. The shape of Louden track eliminates all unnecessary friction, and with it much less power is necessary to operate a carrier than with the ordinary, cheaply con-structed track. A thin, flat-sided track will buckle over

or become wavy, carrying half the load that Louden track will carry with ease. Figure 571 is our Double Bead Steel Track. This track weights 2 pounds to the foot. Width of track 2 inches; height 1 7/16 inches.

424—Raiter or Joist	Brackets.	, Dozen	1.05
1066-Track Hangers,	5-inch.	Dozen	3.00
1066—Track Hangers,	7-inch.	Dozen	3.20
1066-Track Hangers,	9-inch.	Dozen	3.40
1066-Track Hangers,	11-inch.	Dozen	3.6 0
1066-Track Hangers,	13-inch.	Dozen	3.80
1066-Track Hangers,	15-inch.	Dozen	4.00
1066-Track Hangers,	17-inch.	Dozen	4.20
523-End Stop Block	Each		.25
	1066—Track Hangers, 1066—Track Hangers, 1066—Track Hangers, 1066—Track Hangers, 1066—Track Hangers, 1066—Track Hangers, 1066—Track Hangers,	 1066—Track Hangers, 5-inch. 1066—Track Hangers, 7-inch. 1066—Track Hangers, 9-inch. 1066—Track Hangers, 11-inch. 1066—Track Hangers, 15-inch. 1066—Track Hangers, 17-inch. 	124—Ratter or Joist Brackets, Dozen

GRIFFITH @ TURNER CO

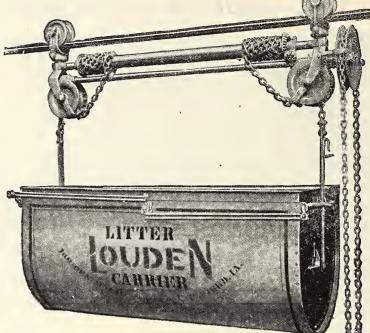
The Louden Emancipator Litter Carrier

Is the result of years of study and experiment, and Is the result of years of study and experiment, and the determination to manufacture the best Barn Equipment on earth. It is made for the man who wants the best—who is satisfied with nothing short of perfection. No dangerous clutches, brakes or ratchets in connection with the Louden Carriers. The lifting ratio is forty to one—one pound pull on the hand chain will raise forty pounds in the box. Louden Carriers operate on Louden Double Bead Steel Track. Body of box is made of 20-gauge gal-vanized sheet steel, reinforced with angle iron. Ends of box are made of 16-gauge galvanized sheet steel. Length of box, 48 inches; width, 27½ inches; depth, 22 inches, outside measurements. Capacity, 10 bushels. Box is fitted regularly to raise and lower seven

bushels. Box is fitted regularly to raise and lower seven feet; may be made to raise and lower as much as twenty feet at slight additional cost. Track wheels are roller bearing. Diameter of track wheels, 5 inches. Clearance necessary for track wheels, 5 inches; box dumped, 56 inches. Length of hand chain, 11 feet, ends joined together. Where ceilings are high, longer chains can be fur-nished at slight additional cost. Shipping weight, 208 nounds.

208 pounds.

PEICE	9.70
Fig. 424-Rafter or Joist Brackets. Doze	en \$1.05
Fig. 1066-Track Hangers, 5 inch. Dozen	1 3.00
Fig. 1066-Track Hangers, 7 inch. Dozen	1 3.20
Fig. 1066-Track Hangers, 9 inch. Dozen	1 3.40
	1 3.60
Fig. 1066-Track Hangers, 13 inch. Dozer	1 3.80
	1 4.00
Fig. 1066-Track Hangers, 17 inch. Dozen	1 4.20
Fig. 523-End Stop Block, Each	
Loudon Double Bead Steel Track, per 100	



The Louden Double End **Feed Carrier**

Is a carrier, built extra strong for heavy work. Each end of the carrier has a sloping shovel board, so two men can easily work at it if desired. The carrier is furnished regularly with the Louden Emancipator Worm Gear Hosting device, same as that used with the Louden Emancipator Litter Carrier, and the most powerful lifting device used with any carrier. One man can easily raise and lower six or eight hundred pounds. The track wheels being large and roller bearing, the loaded carrier can be pushed along the track with scarcely any effort. There are no brakes or ratchets to bother with, and absolutely no danger of the carrier dropping down and smashing. Operates on Louden Double Bead Steel Track. Box is made of wood, reinforced with strap iron. Length of box, 76 in-ches; width, 29 inches; depth, 20 inches, outside measure-ments. Capacity, 14 bushels. Box is fitted regularly to raise and lower

Box is fitted regularly to raise and lower seven feet; may be fitted to raise and lower as much as twenty feet at slight additional cost. Diameter of track wheels, 4 inches. Clearance necessary for track wheels, 5 in-ches. Total clearance necessary, 56 inches. Length of Hand chain, 11 feet, ends joined together.

Shipping weight, 230 pounds.

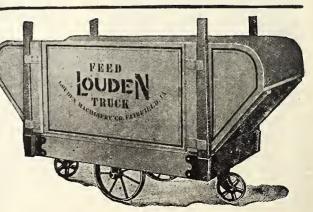
LOUDEN DOUBLE-END FEED CARRIER

LAMPEN THEO CARRIER THEN NACHENPER CO PATRYLER PLAY

The Louden Feed Truck

With side boards and end scoop, is furnished in one size, having a capacity of 20 bushels. Is well built and designed to withstand rough usuage. The swiveled small wheels at either end and the large wheels in the center are all roller bearing, which makes the Louden Truck easy to handle, and it is so balanced that it can be turned within its own length.

The body of the truck is removable and four stakes are supplied with each, making it suitable for handling sacked grain, ground feed, etc. Box made of wood, reinforced with strap iron. Length of box, 86 inches; width, 28 inches; depth, 22 inches.



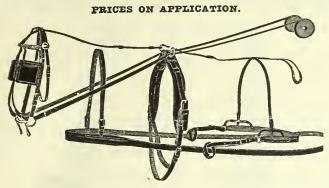




Made of stoneware of a special composition.

.90

GRIFFITH @ TURNER C



CARRIAGE & WAGON HAR

No. 800—SINGLE BUGGY HARNESS

Bridles, 5% inch; Traces, 1 inch; Saddle, 2½ inches; Folded Breast Collar and Breeching; Flat Lines; X. C. Mounting, Price, with Collar and Hames, —; with Breast Collar, —.

No. 802-SINGLE BUGGY HARNESS.

Bridles, % inch; Traces, 1 inch; Saddle, 3 inches, with Japan-ned Hook and Terrets; Breast Collar and Breeching folded with straight lay; Flat Lines; Japanned Mounting, Imitation Hand Stitched. Price, with Collar and Hames, ——; with Breast Collar. -

No. 700-SINGLE BUGGY HARNESS.

Bridles, % inch; Traces, 1% inches; Saddle, 3 inches; Breast Collar and Breeching, single strap; Flat Lines; Japanned Mount-ing, with Imitation Rubber Hook and Terrets, Imitation Hand Stitched. Price, with Collar and Hames, —; with Breast Collar.

No. 706—SINGLE STRAP BUGGY HARNESS. Bridles, % inch; Box Loop, Lay-on Crown, Two-piece Overcheck, Round Brace, Flat Front, Rosettes; Lines, %x1 inch, Black; Steel Billet; Breast Collar, 2% inches, Curved; Traces, 1¼ inches, Attached; Saddle, 3 inches, Break, Leather Pad and Skirt Metal Hook, Sliding Back Band; Shaft Tugs, 1 inch, Double and Stitched, Billet; Girth, Double and Stitched, Box Loops; Breeching, 1½ inches; Solid Waved Turnback, Round Dock, %-inch Hip Strap; %-inch Holdback Straps, with Pressed Loops; Edges rounded, no crcasing; Japanned and Brass Trimmings. Price, with Breast Collar, —; with Kip Collar, Traces to Buckle.

Buckle, —. No. 710—SINGLE STRAP BU' GY HARNESS. Bridles, 5% inch: Box Loop, Overchecks, Square Blinds, Round Brace; 1x1½-inch Steel Billet Lines; 3-inch Curved or V-shaped Breast Collar; 1¼-inch Traces attached; 3½-inch Track Saddle, Patent Leather Skirts, Enameled, Leather Lined, Hand-laced; 1-inch Double and Stitched Shaft Tugs, Box Loop; 1‰-inch Griffith Girth, ¾-inch Billets; Breeching, with two ¾-inch Hip Straps; ‰-inch Solid Waved Turnback, ‰-inch Holdback Straps, Round Dock sewed on; Edges rounded; no creasing; Imitation Rubber or Nickel Trimmings. Price, with Kip Collar, Traces to Buckle.

No. 600-SINGLE CARRIAGE HARNESS.

Bridles, % inch; Traces, 1¼ inch; Saddle, 3½ inches; Breast Collar and Breeching folded with straight lay; Flat Lines; Japanned Trimmed; Imitation Hand Stitched. Price, without Collar,

No. 602—SINGLE CARRIAGE HARNESS. Bridles, ¾ inch; Traces, 1¼ inch; Saddle, 4 inches; Breast Collar and Breeching folded with straight lay; Flat Lines; Nickel Hook and Terrets, balance of mounting X. C.; Imitation Hand Stitched. Price, without Collar, —.

No. 100-DOUBLE BUGGY HARNESS.

Bridles, % inch; Traces, 1 inch; Pads with Inserted Housings; Folded Bellybands; Turnback, ¾ inch; Hip Strap, % inch, with Patent Leather Drops; Flat Lines; without Collars; Japanned Mounting, Price, —.

No. 104—DOUBLE BUGGY HARNESS. Bridles, % inch; Traces, 1% inch; Pads Full Leather Bottom, Hair Stuffed; 1¼-inch Side Straps and Folded Bellybands; Turnbacks, ¾ inch; Hip Strap; Flat Lines; without Collars; Nickel or Imitation Rubber Mountings; Imitation Hand Stitched. Price.

No. 106—DOUBLE BUGGY HARNESS. Bridles, ½ inch, with Overchecks; Traces, 1½ inch; Plain or Fancy Bound Pads, with Leather Housings Inserted; 1¼ inch Side Straps; Folded Bellybands; Turnbacks, ½ inch, waved; Flat Lines; Nickel or Imitation Rubber Mountings; Imitation Hand Stitched; Nicely Finished. Price, without Collars, —.

No. 403-EXPRESS HARNESS.

Bridles, ¾ inch; Traces, 1¼ inch; Saddle, 4 inches; Red Wood Hames, with Ball Top; Folded Breeching, with straight lay; Double Hip Straps; Brass Mounting; without Collars. Price, —.

No. 400---EXPRESS HARNESS. Bridles, ¾ inch; Traces, 1¼ inch, with Cock Eyes; Saddle, 4 inches, with Kersey Lining; Wood Hames, with Ball Top; Folded Breeching, with straight lay; Double Hip Straps; Japanned Mounting; Imitation Hand Stitched. Price, without Collars,

No. 404---EXPRESS HARNESS. Bridles, ¾ inch; Traces, 1½ inch, to buckle to Hames or with Heel Chains and attached to Hames; Saddle, 4½ inches, with Kersey Lining; Folded Breeching, with straight lay; Double Hip Straps; Brass Mounting; Imitation Hand Stitched. Price, without Collars, -----

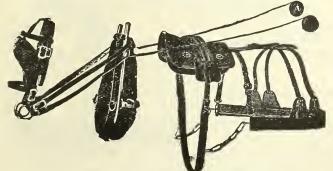
-DOUBLE WAGON HARNESS. No. 300-

Bridles, % inch; Harness Leather Winkers; Ball Top Hames; 1%-inch Traces, riveted to Hames, with Chain Ends; Folded Pad and Breeching; 1-inch Double Hip Strap; without Collars; Flat Lines. Price, ----.

No. 306—DOUBLE WAGON HARNESS. Bridles, % inch; Ball Top Hames; 14-inch Traces riveted to Hames, with Snap Chain Ends; Folded Pads and Breeching; %-inch Double Hip Straps; without Collars, Flat Lines; Imitation Hand Stitched. Price,

No. 308-HEAVY DOUBLE WAGON HARNESS.

Bridles, % inch; Brass Ball Top Hames; 1%-inch Traces, riveted to Hames, with Chain Ends; Folded Pad and Breeching; 1%-inch Turnback and %-in h Split Hips; without Collar; Flat Lines: Imitation Hand Stitched. Price, ——.



No. A-DUMP CART HARNESS.

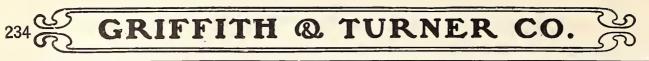
ART

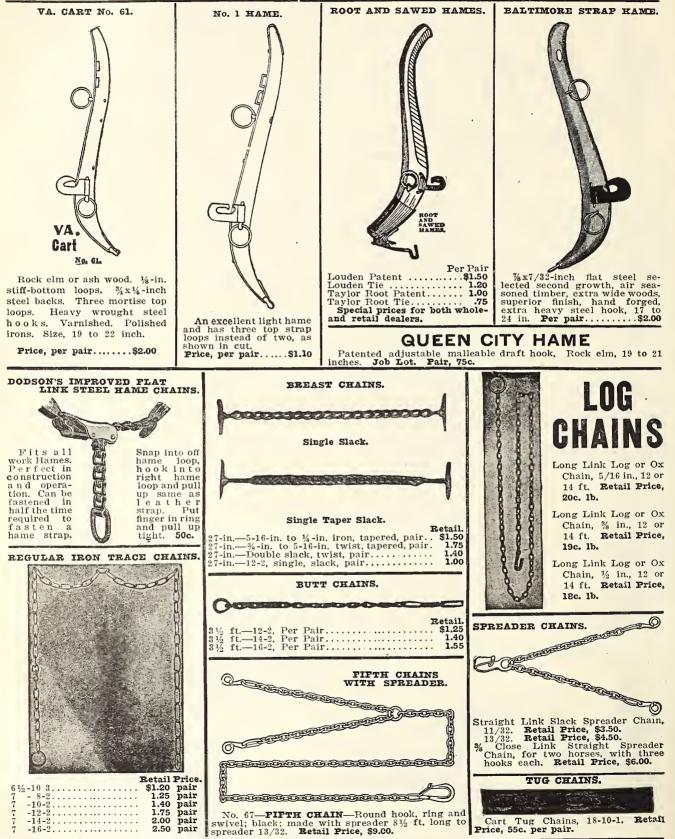
Bridle, % inch; lines % inch; breeching, 3 inches; No. 5 Sad-dle, leather covered; No. 61 iron-bound hames; %-inch hame straps; tug chains; leather collar. Price, with lines, ----.

No. 8-DUMP CART HARNESS.

Bridle, No. 318, with winker stays; hames, No. 61, Virginia Hook, with straps; 605X hair collar; saddle, No. 8, doubled and stitched top, full pad, leather girth; breeching, No. 8, 3-inch double body; 1½-inch turnback; 2-inch single hip straps. Price, with lines with lines.

Prices on Harness on Application.







COW CHAINS

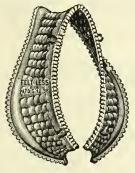
TRIUMPH CHAINS .- Very light; possess great strength; all links have equal strength. Do not kink; no welds to give way; no sharp edges.

No.	3-0-Bullde	og Cow 7	lie (Ohio p	at.), ea	ch, 40c.	4-0	\$0.50
No.	3-0-4 1/2-ft	, Halter,	each, 50c.	6-ft.			
No.	0-20-ft.	Bulldog	Tethering	Chain,	each		1.00
No.	00-20-ft.	Bulldog	Tethering	Chain,	each		. 1.25
No.	000-20-ft.	Bulldog	Tethering	Chain,	each		1.40
No.	0-30-ft.	Bulldog	Tethering	Chain,	each		. 1.40
	00-30-ft.						
No.	000-30-ft.	Bulldog	Tethering	Chain,	each		1.75

OPEN SIDE LAP LINKS.



Boss Back Band Hooks. Per pair, 3½ in.....\$0.25 Per pair, 4 in..... 30



WEB BACK BANDS.
Less Hooks.
No. 1-3 ¹ / ₂ -in., 42-in. long\$0.35
No. 1-4 -in., 42-in. long40
No. 2-3 ¹ / ₂ -in., 42-in. long30
No. 2-4 -in., 42-in, long35
BACK BAND HOOKS.
3 ½-in\$0.25
4 -in
HAME STRINGS. Black.
5% x42-inch slit, each\$0.25
³ / ₄ x42-inch slit. each
Rawhide.
240 WILLOU
%x42-inch slit, each\$0.25
SWEAT PADS
OWLAT TADO
FELTLESS
Pinked, Felt Edges, Composite
Filling, Four Hooks.
Old Gald Daills haat on the men

Old Gold Drill; best on the market. 80c.

Cheaper Old Gold, 70c.

BROWN AND WHITE DRILL PADS.

10-inch....60c. 12-inch....65c.

HORSE COLLARS

No. 490-DRAFT.-Split Leather Rim and Back; Blacked Tick Face; Buckle Top, ----.

No. 408-DRAFT.-Black Split Leather Rim and Back; Sheep Face; Patent Fasteners, ----.

No. 340-TEAM.—Black Split Leather Rim and Back; Tick Face, extra lined, pop stitched; Patent Fasteners,

No. 611—TEAM,—With Leather Thong: Black Split, Russet Sheep Face; Patent Fasteners, ——.

No. 605X—SCOTCH.—Kip Rim and Back; hair-lined Tick Face, with Thong; Patent Fasteners,

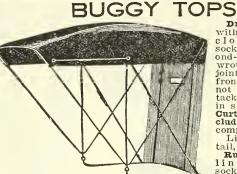
No. 5X—CANAL.—All Kip. Rus-set Face, hand-sewed, with heavy Thongs; Patent Fasteners, ——.

No. 165 - BUGGY. - All Kip, Blacked, 2 Buckles, -Prices on Application.



CHAIN REPAIR LINKS

Chain Repair Links, 1/4 or 10-2, dozen, \$0.25



Drill Top, lined with nice union cloth. Tubular sockets and sec-ond-growth bows, sockets and sec-ond-growth bows, wrought rail and joints, st itched front valance, does not show nails or tacks. Will keep in shape. Side Curtains are in-cluded making top cluded, making top complete.

complete. List, \$34.00; Re-tail, \$20.00. Rubber Top, cloth lined, tubular sockets and sec-

wrought rail and joints, stitched front valance, no nails or tacks exposed. Will keep shape for years. Complete with side curtains. List, \$40.00; Retail, \$25.00.



In ordering Backs, give exact measurement of seat at top of rim, from out to out; or, if seat is ready ironed up with back board in position, send paper pattern of the exact size and shape of back wanted.

Enameled Drill-List, \$11.00. Retail, \$6.50. Heavy Rubber-List, \$14.00. Retail, \$8.00.

CORDED TOP BUGGY CUSHION

NICELY MADE .- In ordering Cushions, give size of bottom of seat inside, size of fall at top and bottom, and depth from

Union Cloth—List, \$12.00 ran to pattern. Union Cloth—List, \$11.00. Retail, \$6.50. Rubber Drill—List, \$14.00. Retail, \$8.00. Imitation Leather—List, \$16.00. Kstail, \$10.00.

WAGON CUSHION

Black Enameled Drill, 20 to 34 inches long, stitched edge. List, \$4.50. Retail, \$2.75.



"Baltimore" Ironed **Buggy Pole**

Is well ironed with wrought-iron tees; heavy drop-forged stay irons. In every way suitable for me-dium grade work. Prices are for Pole complete, which includes neck yoke, double and single trees and check and single-trees and check straps. Ironed, complete, painted. List, \$20,00. Our Special Price, \$12,50. Day-ton Pole, List, \$23,00. Our Special Price, \$15.00.

GRIFFITH @ TURNER CO.

AUTOMOBILE AND CARRIAGE HEATERS



236

The **Leader** is a splendid new all-metal heater that always gives satis-faction. This new always gives satis-faction. This new heater is made en-tirely of metal; is strong and durable; cannot be bent or broken; oval pat-tern, 12 inches long; weight, 4 lbs.

Price, \$1.25.

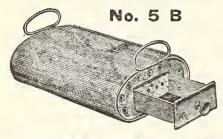
No. 7 D



Weight, 7 lbs.

No. 7 D-Clark Heat-er, 14 in ches long, nickel-plated steel ends,

PREPARED COAL One cake will last 15 to 16 hours. No smoke, odor, flame or gas. Price, case of one doz.

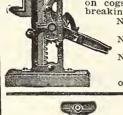


Strong, Ornamental, Convenient.

No. 5 E-Clark Heater, 12 inches Iong, otherwise same as 3 D, except carpet is not braid-Weight, 4 hound. lbs. Price, \$2.00.



No. 3 D No. 3 D - Clark Heater, 14 inches long, sheet metal case, stamped white metal ends, covering of braid-bound Brussels carpet. Weight, 7 lbs. Price, \$3.00



cakes, \$1.00 IMPROVED SAMPSON JACK

MALLEABLE IRON. Best Jack on the market. Can be used for any height axle. Standard cannot drop back on cogs when raised to extreme height. No breaking of cogs and standards.

tons.....

on application.



No. 1.....

AUTOMOBILE JACK

This Jack is made from best quality refined malleable iron, with highgrade Steel Screw, aluminum finish. and by single turn of the pawl raises or lowers. It is compact, neat and has sufficient strength to raise any automobile made.

Standard Height. Lowered, Inches. Capacity, Pounds. 2000

 $10 \\ 10$

Raises, Weight, Price, Pounds. Inches. Each. \$1.75 6 6 8 2.50

Rell I	sottom .	lack Sci	ews
These	Jack Scre	ws have c	ast-iron
stands, w	ith forged	head scre	ws. For
	ship and	durabilit	
	excelled.		Our
	Height		Special
	Stand		
	12 in.		
	14 in.	17 in.	6.00
$1\frac{1}{2}$ in.	16 in.	19 in.	6.75
2 in. 2 in. 2 in. 2 in. 2 in.	10 in.	14 in.	6.75
2 in.	12 in.	16 in.	7.50
2 in.	14 in.	18 in.	8.25
2 in.	16 in.	20 in.	9.25
Capacity	1½-in. di	ameter sc	rew, 10
tons.			
Capacity	2-in. diam	eter screw.	12 tons.
Other si	zes. Price	s on appli	cation.

Dell Detter I I O



Made of steel and maileable iron. Light, strong and durable. Adjustable to any height up to 27 inches. Specially adapted to light vehicles of all kinds. Double acting dogs-one raises, the other holds.

Price, \$2.00.



GRIFFITH @ TURNER CO.

PRICES FEDERAL AUTOMOBILE TIRES

FEDERA

		тι	TUBES			
To Fit 1919 Standard Rim Sizes.	PLAIN Tread.	TRAFFIK Tread.	RUGGED Tread.	CORD Non-Skid.	GRAY.	EXTRA GAUGE Red.
30x3	*\$13.50	*\$14.15	*\$16.30		\$2.75	\$3.30
30 x 3 ½ 32 x 3 ½	* 17.40 20.25	* 18.25 21.25	* 22.80 25,50	\$38,40	3.40 3.75	4.50 5.00
31x4 32x4 33x4	* 26.70 27.35 28.50 29.20	* 28.05 28.70 29.95	* 32.75 33.50 † 34.95	48.90 50.10 51.45	4.40 4.60 4.80 5.00	5.90 6.15 6.40 6.65
34x4 36x4		30,65	35.75 † 37.90	51.45	5.00 5.50	
$32x4\frac{1}{2}$ $33x4\frac{1}{2}$ $34x4\frac{1}{2}$ $35x4\frac{1}{2}$ $36x4\frac{1}{2}$	38.10 39.40 41.15	40.00 41.35 43.20	46.65 48.25 † 50.40 51.20	54.85 56.50 58.05 59.40 60.80	5.95 6.10 6.25 6.40 6.55	8.35 8.55 8.75 8.95 9.15
33x5 35x5 37x5			55.40 † 61.00	68.80 72.05 75.35	7.15 7.50 7.85	10.00 10.50 11.00
36x6				99.45	15.00	,

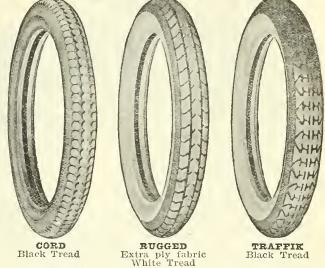
Sizes and Styles marked * furnished in Clincher only.

Other sizes and types furnished in S. W. Type.

Sizes and styles marked † furnished in Q. D. until present stocks are exhausted.



FEDERAL GREY TUBES are made of the best quality Para rubber in extra heavy gauge, and embody all of the essential elements of strength, durability and elasticity necessary to long life and satisfactory service.



FEDERAL CORD TIRES. (Double-Cable-Base)

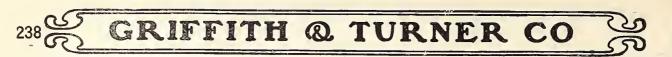
FEDERAL CORD TIRES. (Double-Cable-Base) The construction of **Federal Cord** tires is unique in tire building practice. They are strong; flexible and resilient and stand out distinctly as typical of the highest achievement in cord tire manufacture. Flexible cords of great tensile strength diagonal rows to build up the carcass structure. By improved Federal methods the carcass is first formed into shape, and over this highly resilient structure are built the various plies of rubber that form the side-wall, breaker cushion and tread stock. The final vulcanizing of the completed tire is effected in special equipment which permits the use of internal air pressure. This expansion, without cramping the tire in rigid motal ic molds, exerts an equal tension on every individual cord so that each lies straight and parallel and bears its share of strain, road shock and load. All Federal Cord tires are built with DOUBLE-CABLE-BASE construction, and in "Over-size" and "Double Oversize" to fit standard detachable rims. **FEDERAL RUGGED TREAD TIRES. Extra Fly Fabrio**

FEDERAL RUGGED TREAD TIRES. Extra Ply Fabric (Double-Cable-Base)

(Double-Cable-Base) Federal Eugged (extra ply fabric) White Tread Tires are known everywhere as "Extra Scrvice" tires. The rubber used in their manufacture is of exceptional quality and especially treated to give long service. The fabric, made of best grade long staple Sea Island cotton, is special woven to overcome shrinking and to give greatest tensile strength. The system of curing ensures perfect vulcanization of tread and carcass into a unit of construction capable of exceptional stability and durability under the most exacting conditions of service. Federal Rugged Tread tires are made in all standard sizes, for Quick-Detachable Clincher, Straight-Wall Detachable and regular Clincher rims. Federal white tires are also made in Plain treads, all standard sizes, for Quick-Detachable Clincher, Straight-Wall Detachable and regular Clincher rims. FEDERAL TRAFFIK TAXAD TREES (Double-Cable-Base)

Straight-Wall Detachable and regular Clincher rims. **FEDERAL TRAFFIX TREAD TIRES (Double-Cable-Base) Federal Trafik Black Tread Tires** are made of the same ex-cellent quality of material and workmanship as enters into the construction of the well-known Federal Rugged Tread tires. They have been designed after years of experience in the manufacture of automobile tires to meet the demand of the particular motorist for a non-skid tire of the highest effi-ciency selling at price only slightly greater than the Plain Tread types. The Traffik Tread is at once one of the most pleasing in appearance and most efficient in its protection against skidding that can be found on the market. Federal black tires are also made in plain treads, all standard sizes, for Quick-Detachable Clincher, Straight-Wall Detachable and regular Clincher rims, regular Clincher rims.

DOUBLE-CABLE-BASE. An Exclusive Federal Feature An improved type of construction, consisting of a "flexible bead-filler" carrying unstretchable and unbreakable double cables in each bead at the base of the tire. The "flexible bead-filler" permits full and easy flexing where the tire bends to meet the curve of the side rings, and thereby prevents side-wall breaks (commonly known as "rim-cutting"). The strong double cables provide perfect "heel and toe" anchorage of the tire base to the rim, makes it impossible for the bead to break or stretch, or permit the tire to blow over the rim. This per-fect circumferential "heel and toe" anchorage also prevents lifting of the tire base under service strains and the possibility of pinching the inner tube, even if a safety flap is not used. Double-Cable-Base construction is found in all Federal tires except the regular clincher type. DOUBLE-CABLE-BASE. An Exclusive Federal Feature



FAN BELTS



Federal Fan Belts are made up with multiple plies of specially treated fabric, impervious to oils and grease, are practically un-stretchable and are very durable, outlasting the or-dinary belts sup-Their comparatively

plied for the purpose. low price and durability make them extremely economical. Price

- No.1 Belts for 1914-15 Ford Cars. 10 to the package.....each,
- No. 2 Belts for 1917-18 Ford Cars. 5 to the package.....each,
- No. 3 Belts for 1916-17-18 Hudson Super "6"; 1918 Moon Model 636; 1917-18 National "6"; 1916-17-18 Saxon "6"; 1915 Overland Model 80-81; 1916 Overland Model 83; 1917-18 Overland "4" and "6" Model 85; 1916 Willys-Knight Model 84. 5
- to the package each,
- **No. 4** Belts for 1916-17-18 Overland Model 75-90-90 C. C. **5 to the package.....e**ach,
- **No.** 5 Belts for 1918 Auburn with continental Motor; 1916 Buick Models C-24, C-25; 1915-16 Dodge; 1916-17-18 Empire Models 45-50-51; 1916-17-18 Paige "6-38" and "6-39"; 1916-17-18 Studebaker "4" and "6"; 1916-17 Velie "6". 5 to the package.....each,
- No.6 Belts for 1913 Buick Models 30 and 31; 1916-17 Buick Models D-34, D-35, D-44, D-45, D-46, D-47; 1918 Buick Models E-34, E-35, E-44, E-45, E-46, E-47, E-49, E-50. 5 to the package...each,



An all-rubber, self-vulcanizing repair ma-terial for inner tubes, and other soft rubber products. Makes a quick, secure and perma-.50 nent repair. Price

In Screw Top Cans.....Per Can, (56 sq. in. Para-Tite)

(A M white	ll Fabr ade e face	ric) with and	Car and		
tions ple squ	with a plies are	multi- heavy woven		1	
tippe Defei tract	d. Br nder. A ive me	anded An at- dium-			
excel	lence pility.				Ø
	Plies		Flaps	Ι,	Price \$0.45
$\frac{3}{4''}$		<u>9</u> "	$12\frac{1}{2}''$.60
4 1/2 " 5"	4	11'' 11''	$15\frac{1}{12}$ " 17"		.90 .95
	4	(Packed	One to Car	rton)	
	Ins (A M whitk gray tions ple s q u duck. tippe Defer tract price excel dural Size 3"	Inside Sle (All Fabr M a de - white face gray inside tions with r ple plies s q u a r e - duck. Red r tractive me priced slee- excellence durability. No. Size Plies 3" 3 3'2" 4 4", 4 4", 4 5"	$\begin{array}{c c} & \text{No.} \\ \text{Size Plies Length} \\ 3'' & 3 & 8'' \\ 3'_2'' & 4 & 9'' \\ 4''' & 4 & 10'' \\ 4'_2'' & 4 & 11'' \\ 5'' & 11'' \end{array}$	Inside Sleeves (All Fabric) Ma de with white face and gray inside fric- tions with multi- ple plies heavy s q uare woven duck. Red rubber tipped. Branded Defender. An at- tractive medium- priced sleeve of excellence a n d durability. No. Size Plies Length 3" 3 8" 114" 342" 4 10" 134" 442" 4 11" 1542" 5" 11" 17"	Inside Sleeves (All Fabric) Ma de with white face and gray inside fric- tions with multi- ple plies heavy s q u a r e woven duck. Red rubber tipped. Branded Defender. An at- tractive medium- priced sleeve of excellence an d durability. No. Size Plies Length 3" 3 8" 11'4" 3'4' 3 8" 12'4" Width Incl. Flaps 4" 12'4"



COLUMBIA AMMETER

\$0.45

To determine the condition of batteries, or to test ignition circuits, a small rcliable, lowpriced meter is necessary.

The Columbia volt-ammeter The Columbia volt-ammeter shown in the cut is very ac-curate. Put out in a nickel-plated case, black figures on silver dlal; it is a handsome in-strument and one which should be in the possession of every one using dry cells.

Price.....\$1.25.

VOLT AMMETER

For testing voltage as well as amperage.

Price.....\$1.50.

FOR FORD

AUTOMOBILE

DIAMOND Z PETTICOAT TYPE CORE FORD CARS PRICE - - - - -75c DIAMON ÷Z HAMPSHIRE SPECIAL 1/2 inch, 7/8 inch, 18 and METRIC THREADS PORCELAIN DATA The porcelains used in The porcelains used in the **Hampshire Special Plugs** are made up from new material. From the exhaustive tests given them by the Bureau of Standards they are prov-en to be much superior en to be much superior HAMPSHIRE SPECIAL "775° to the regular porcelain. We do not make im-possible claims for our Plugs but NOTE GUAE-ANTEE. All our Plugs are guaranteed perfect in material and workmanship, and if found otherwise they will be replaced free of charge. Wizard Bughy Tractor Spark Plug 1/2-inch Standard\$1.25 %-inch Regular 1.25 %-inch Extension 1.25



With your car equipped with the "Minute Wheel" you at once eliminate the objectionable feature of having to change or repair a tire on the road.

In one minute you take off the wheel with the bad tire, and replace it with the "Minute Wheel" go on your journey, and when you are at home you repair the tire at your leisure, and when you can do it properly.

With a wrench you take off one nut, replace the wheel, and in less than a minute you are on your way.

Think how much time and trouble this will save you when you are in a hurry, especially if you have a train to catch or an engagement to mect.

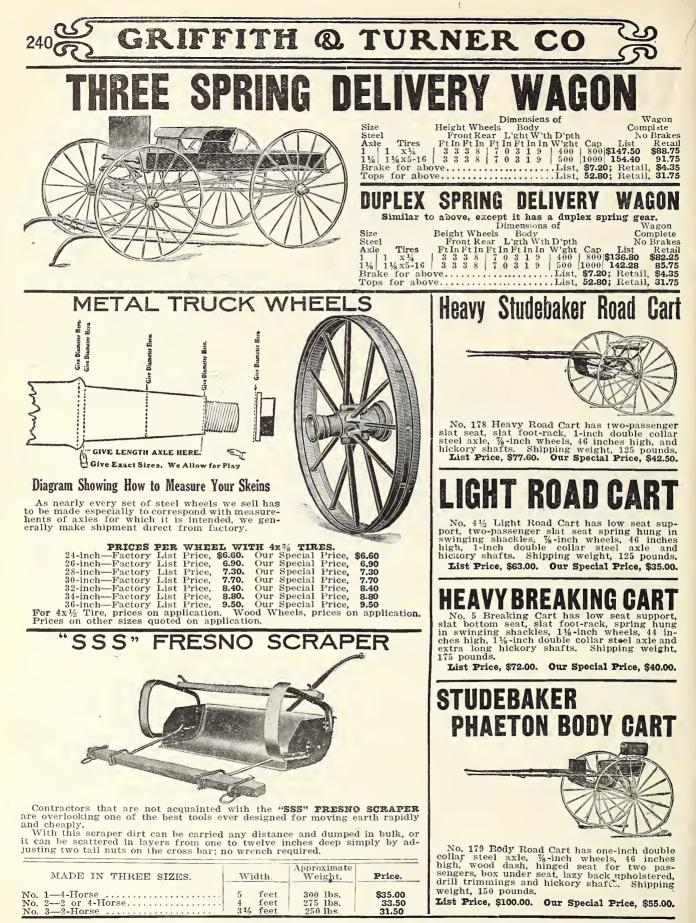
If you had a bad tire in the night or on a muddy road, your chagrin would be turned into a "Minute Wheel" smile.

Every Ford user should equip his car with a set.

If interested, write for special circular. Will only fit the Ford automobile.

Regular Price Set, \$32.00; Cash With Order Price, \$30.00.





GRIFFITH @ TURNER CO.

OUR HANDY STEEL WHEEL FARM TRUCKS

All wood parts hardwood and well painted. Note the wood hardwood and well painted. Note the grooved tire, which protects the spokes of the wheel, and they last much longer than flat tire wheels. Made in two sizes. No. 22 with 3x9 skeins, ca-pacity 3,000 lbs. No. 24 with 3¼x10 skeins, capacity 4,000 lbs. Both Nos. 22 and 24 Trucks have 28-inch front and 30-inch rear

front and 30-inch rear

Iront and 30-inch fear wheels, 43% tires. Weights—No. 22, 475 lbs.; No. 24, 510 lbs. No. 22 Truck—List Price, \$80.00; Our Spe-cial Price, \$47.50. No. 24 Truck—List Price, \$85.00; Our Special

Price, \$50.00.

PRICES OF EXTRAS.

Brake—List, \$12.00. Our Special Price, \$7.50. Double Trees and Neck Yokes—List, \$9.00. Our Special Price, \$5.75. Shafts—List, \$12.00. Our Special Price, \$7.50.

Wood Hounds. Well Braced. Hickory Axles.

OUR NO. 34 LOW-DOWN WOOD WHEEL FARM TRUCK

Weight, 610 lbs.

This truck has low-down wood wheels 32 and 36 inches in height, with 4-inch tires. Furnished with hickory axles. 3¼x10-inch skeins, hardwood gear parts; both front and rear hounds, and has regular wagon standards, ironed and ringed. Truck nicely painted and striped. Capacity 4000 lbs.

With	3-inch	tire	S
List Pri	ice,	\mathbf{Our}	Price,
\$125.00	\$7	75.00	

With 4-inch tires-

List Price,	Our Price,
\$130.00	\$76.25

THE OLD DOMINION WAGON

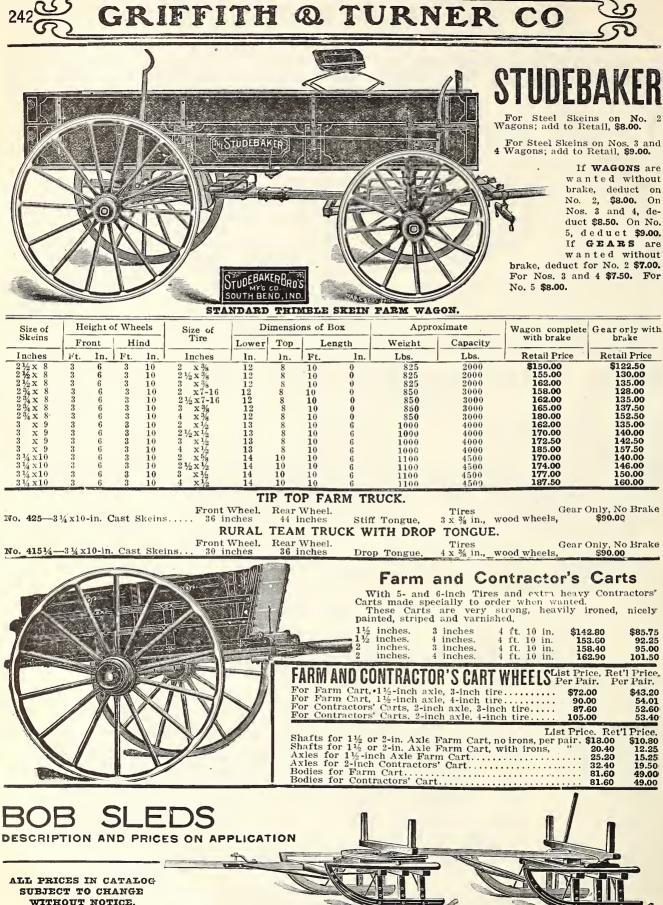
PRICES OF EXTRAS.—Brake, List, \$12.00; Our Special Price, \$7.50. Double Trees and Neck Yoke, List, \$9.00; Our Special Price, \$5.75. Wood Wheels for No. 34, per set of 4, List Price, \$80.00; Our Special Price, \$50.00.

STIFF TONGUE TRUCK

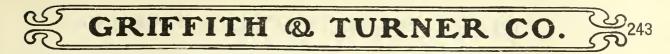
3¹/₄ x 10-inch hickory axle, wood wheels, 36-in. front, 42-in. rear, $3 \times \frac{3}{8}$ -in. tire. A serviceable wagon at a low price.

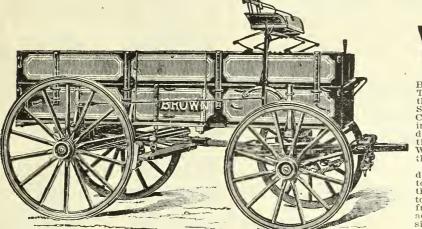
Weight, 675 Lbs. List Price, Our Price, \$145.00 \$87.50 PRICES OF EXTRAS Brake, List, \$12.00. Special Price, \$7.50. Our





WITHOUT NOTICE.





BROWN 4GO

Axles are made of dried selected hickory. Brown's Patent Extension Chilled Skeins. These Skeins support the axle where it has the greatest load to bear. Tongue Chains and Stay Chains fitted with springs. The Tongue Chains have a branch chain to prevent jerk-ing and switching of the tongue, and eases the draft on the horses' necks. Wheels all posi-tively soaked in hot oil. Tires never get loose. Write for special circular fully describing these Wagons. Coll springs are applied to tongue—easer draft on team's neck when chains are forced to control tongue or hold back. They supply the place of the vibrating neck yoke. Yield to pull of chain or branch chain, saving team from jerking of tongue. Branch chains are added to each tongue, practically destroying side jerking and whipping motion. Acts same as neck yoke.

as neck yoke.

No.	Si z e of Cast Skein.	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Depth of Box	Capacity, Pounds.	Wagon Complete with Brake.	Gear only with Brake.
							Price.	Price.
000	21/2 x 8	3/4//	3'8"	$2\frac{1}{2} \times \frac{1}{2}$	20"	2000	\$148.50	\$121.00
000	$2\frac{1}{2}x$ 8	3/4//	3'8"	3 x 1/2	20"	2000	155.00	127.75
0.0	$2\frac{3}{4} \times 8\frac{1}{2}$	3/4"	3'8"	$2\frac{1}{2} \times \frac{1}{2}$	22"	2500	152.00	124.50
0.0	$2\frac{3}{4} \times 8\frac{1}{2}$	3'4"	318"	$3 \times \frac{1}{2}$	22"	2500	158.50	131.00
1	3 x 9	3'4"	3/8//	$2 \frac{1}{2} \mathbf{x} \frac{1}{2}$	24"	4000	156.25	128.75
1	3 x 9	3/4″	3'8"	$3 \times \frac{1}{2}$	24"	4000	162.80	135.50
1	3 x 9	3'4"	3'8"	$4 x \frac{1}{2}$	24"	4000	173.80	146.50
2	$3\frac{1}{4}$ x19	3/4//	3'8"	2 1/2 x 5/8	26"	4500	167.25	139.75
2	$3\frac{1}{4}$ x10	3'4"	3/8//	$3 \times \frac{5}{8}$	26"	4500	173.80	146.50
2	$3\frac{1}{4}$ x10	3/4//	3'8"	4 x 1/8	26"	4500	184.80	157.50
	f above Complet	-						

Following Special Gears have Linch Pin Steel Skeins, Gear Brakes, and Nos. 3, 4 and 5 have Side and Back Action Brakes with Round Coupling Poles:

2	3 ¼ x 10	318"	41411	4 x 5/8	 4500	 \$176.00
3	$3\frac{1}{2}x11$	3/8//	4/4//	$4 \times \frac{3}{4}$	 5500	 187.00
4	$3\frac{3}{4}x12$	3/8//	41411	$4 \times \frac{1}{8}$	 6500	 214.50
5	4 x12	3/8//	41411	4 x1	 7500	 242.00

STUDEBAKER Patent Steel Skeins Price List PATENT SKEINS. Skeins with Boxes, per Set. With Nuts. Boxes Only, per Set.	S. B. Trade Cast Skeins
With Nuts. Boxes only, per set.No.Size.Price.Price.2 $2\frac{1}{2}$ x 8"\$14.00\$2.053 $2\frac{3}{4}$ x 8"14.752.1563 x 9"15.702.309 $3\frac{1}{4}$ x10"18.152.6511 $3\frac{1}{2}$ x11"20.603.0014 $3\frac{1}{4}$ x12"24.403.50154x12"29.004.2017 $4\frac{1}{2}$ x13"43.506.25	$\begin{array}{c ccccc} Cast Skeins, with Boxes. Bokes Only, Our Special Price. Our Special Price. Per Set. Per Set. \\ 9 & 2\frac{1}{2}x 8'' & $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	All sizes, from 2 ¹ / ₂ x8 to 4x12, inclusive, are made with truss attachment, as shown in cut. These skeins are made of a better quality of iron than the ordinary trade cast skeins. PATENT TRUSS CAST SKEINS AND BOXES FOR STUDEBAKER WAGONS. Our
of the collar keeps the wet and grease from working in on axle. Extension back of collar covers all tapering portions and more of the wood of the axle than any other skein. STEEL SKEINS FOR PETER SCHUTTLER WAGONS.	Special Price. No. 3—Size, $2\frac{1}{2} \times 8''$; with nuts, per set. \$5.25 No. 4—Size, $2\frac{3}{4} \times 8''$; with nuts, per set. 5.85 No. 5—Size, 3 $\times 9''$; with nuts, per set. 6.65 No. 6—Size, $3\frac{1}{4} \times 10''$; with nuts, per set. 8.30 No. 7—Size, $3\frac{1}{2} \times 11''$; with nuts, per set. 9.10
$\begin{array}{c cccc} & Skein Only \\ & with Nut or Linch Pin, Box Only, \\ & no Box, each. each. \\ & 3 \frac{1}{4} x10'' & \$4.75 & \$1.00 \\ & 3 \frac{1}{2} x11'' & 5.50 & 1.25 \\ & 3 \frac{3}{4} x12'' & 6.20 & 1.50 \\ & 4 & x12'' & 7.00 & 1.75 \\ & 4 & x12'' & 7.75 & 2.00 \\ & 4 \frac{1}{2} x13'' & 10.25 & 2.25 \\ \end{array}$	CAST AND STEEL SKEINS FOR BROWN WAGONS. Each. 2%4" Cast Skeins, pat. extension for bolt or clip, with box \$2.75 3" Cast Skeins, pat. extension for bolt or clip, with box 3.10 3%4" Cast Skeins, pat. extension for bolt or clip, with box 3.60 3%4" Steel Skeins, long sleeve, with box



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STAR SHAFT COUPLER AND ANTI-RATTLER Simplest, safest and strongest coupler made. No rivets or joints to wear out or break. List Price, dozen pairs, \$4.00. Our Special Price, per pair, 25c.

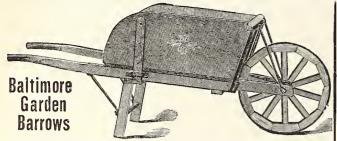
This Hitching Post is made of steel pipe. Equipped with wrought iron base and heavy bail. It cannot be pulled out or broken. List Price, \$6.00; Retail, \$3.50.

HITCHING POST









Made of seasoned wood, double frames, firmly bolted, iron braced and so constructed that by removing one bolt (the axle) and two nuts they can be folded flat down and shipped at lowest rate of freight.

No. 4, MEDIUM SIZE OR MAN'S BARROW.

Inside measurement of box—Width at wheel, 19½ inches; depth, 11 inches; width at handles, 23¾ inches. Length of handles, 48 inches; wheel, diameter, 18 inches; tire, 1¾x3-16-inch; spokes, 1x1 inch; 8 spokes. Sides painted green, balance of barrow red, sides striped. Weight, 50 lbs. Wood Wheel, List Price, \$12.50; Our Special Price, \$7.00. Steel Wheel, List Price, \$12.50; Our Special Price, \$7.00.

No. 5, LARGE SIZE OR MAN'S EARROW.

Inside measurement of box—Width at wheel, 21 inches; depth, 12 inches; width at handles, 23¾ inches. Length at handles, 51 inches. Wheel diameter, 18 inches; tire, 1%x3-16 inches; spokes, 1x1¼ inches. Weight, 60 lbs. Finished as above. Wood Wheel, List Price, \$13.50; Our Special Price, \$7.50. Steel Wheel, List Price, \$13.50; Our Special Price, \$7.50.

No. 1 Special Garden Barrow

Size—30 inches long, 24 inches wide in front, 25 inches in back. Sideboards—12 inches high, 30 inches long. Handles— $5\frac{1}{2}$ feet long, $2\frac{4}{3}$ x1 $\frac{3}{4}$ inches. Wheel—21 inches diameter, 6 spokes. Hub—3-inch diameter in center. 2-inch diameter at ends.

 No. 1 Barrow, with 1½-inch tread. Weight, 60 lbs.
 crated in one package, 56½ cubic feet.
 Wood Wheel, List Price, \$16.50; Our Special Price, \$9.00.
 Steel Wheel, List Price, \$16.50; Our Special Price, \$9.00. Weight, 60 lbs. Six



Steel Wheel, List Price,

Our Special Price, \$7.00.

\$12.50.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

SOLID PRESSED STEEL TRAY BARROW



RIVETED STEEL TRAY BARROW



ity, 4 cubic feet; weight about 65 pounds. List Price, \$15.00. Our Special Price, \$9.00. Capacity.

ALL STEEL BARROW

No. AX All-Steel Tubular Frame Barrow. List Price, \$14.00. Our Special Price.

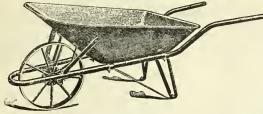
TUBULAR FRAME SOLID PRESSED STEEL TRAY BARROW

S MEG.Co.

front, permitting a practical level load.

GRIFFITH @ TURNER CO

SOLID PRESSED STEEL TRAY **COAL AND COKE BARROW NO.10**



One-piece tubular steel frame extending around in front of wheel. Frame strongly braced and well ironed. Tray of best quality steel, with wired edge. Size No. 10—Gauge of steel in tray, 13; length of top of tray, 41 $\frac{1}{2}$ in; width of top of tray, 33 in; depth at wheel, 12 in; depth at handle, 6 in; capacity, 6 cubic feet; weight 110 lbs. List Price, \$24.50; Retail, \$1250 \$13.50.

Steel Wheels. List Price, \$4.50; Retail, \$2.50. Extra Trays. List Price, \$14.50; Retail, \$8.00.

Straight Handle Stone Barrow

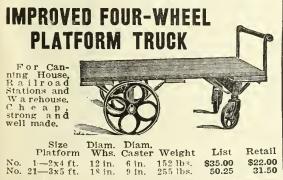
Strong, well made, iron strapped over bottom, and well bolted together. Handles 6 feet long; legs, 12 inches long; bottom, 1¼ inches thick by 23 inches wide by 27 inches long; dash, 10 inches high; weight, 64 pounds. List Price, \$10.80; Retail, \$6.00.

STRAIGHT HANDLE BRICK BARROW List Price, \$14.40. Retail, \$8.00



We are prepared to quote special prices on Trucks of every description. If you want anything special, write us for prices.

		Diam.		
	Wgt.	Whs.		
No. Size of Platform.	Lbs.	Ins.	List.	Retail.
82-2 ft. 4 in. by 3 ft. 4 in.			\$29.50	\$18.50
83-2 ft. 6 in. by 3 ft. 6 in.			35.74	22.50
843 ft. by 4 ft	125	$8\frac{1}{2}$	37.34	23.50
_ Can furnish Special Tru	cks at	lowe	st price	es; also
Truck Wheels. Write for	prices.			





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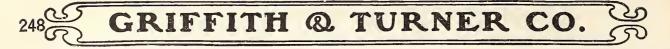
Heavy

19 ¹/₂

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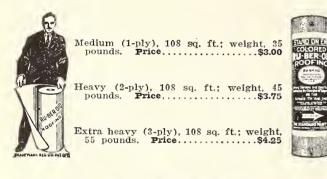
21%





FOR OVER 23 YEARS THE STANDARD.

FOR OVER 23 YEARS THE STANDARD. RU-BER-OID is the original ready-to-lay roofing, and was for several years the only roofing of this character. Different from and superior to all other prepared roofing, in that **RU-BER-OID** compound or gum, an exclusive combination of high-grade, water-proof, acid- and fire-resisting ingredients is used in its manufacture. This gum is used in no other roof-ing. That the first roofs of **RU-BER-OID** applied in 1892 are still giving satisfactory service is indisputable evidence of unequaled durability. **RU-BER-OID** contains no rubber. It contains no tar. It contains no paper. It contains no asbes-tos. It is not an asphalt roofing. **RU-BER-OID** is tastless. It is dorless. It can be used on roofs from which drinking water is conserved. **RU-BER-OID** is fire-resisting. Hot coals thrown on a roof covered with it do not set fire to the fabric, nor to the boarding underneath. **RU-BER-OID** is ann-con-ductor of heat. It keeps the heat in in winter, and the heat out in summer. **RU-BER-OID** will outlast tin, iron or shin-gles. It has outlasted its upwards of 300 imitations, 'asbes-tos'' roofings, etc. Put up in rolls 36 inches wide, containing 108 square feet.



COLORED U-BER-O



COLORED RU-BER-OID possesses all the endur-ing qualities of the Gray Ru-ber-oid. The attractive colors are permanent—built into the roofing.

COLORED RU-BER-OID is furnished in rolls either 24 inches wide, containing 110 square feet, or 36 inches wide, containing 108 square feet, sufficient to cover one hundred square feet—the extra material being allowed for the two-inch laps.

Tile-Red (Medium Weight), 45 pounds......\$6.00

Tile-Red (Heavy Weight), 55 pounds......\$6.75

RU-BER-INE CEMENT necessary for seams, together with special large-headed sherarddized (zinc coated) nails, are included in each roll of **RU-BER-OID** and **COLORED RU-BER-OID ROOFING**.



THE ROOFING WITH THE TILE EFFECT.

Dark Red, per square......\$7.50

REX STRIP SHINGLES



GREEN---SLATE SURFACED RED---SLATE SURFACED



These shingles possess all the durability, attractiveness, weather protection and fire-resisting qualifies of the modern asphalt shingle—plus 50 per cent. or more saving in the cost of application, because they can be laid so quickly.

REX STRIP SHINGLES are water-proofed, with pure re-fined asphalt. The wearing surface is natural chipped slate in handsome red and green colors. The colors are absolutely permanent.

Price, per square.....\$8.00

This material is also put up in rolls of 108 square feet. Nails and cement furnished.

Price, per roll.....\$3.75

VULGANITE PLAIN ROOFING

PUT UP IN ROLLS WITH NAILS AND CEMENT.

Gravel Surfaced Roofing......\$3.25

REX FLINTKOTE ROOFING

This material has a continuous service rec-ord of over fifteen years. It has proved its remarkable durability, weather-protecting and fire-resisting qualities on all kinds of buildings throughout practically the entire world, and under the severest conditions. The way to buy roofing is not on claims of what it will or may do—but on the service it has shown, and the record of **REX FLINT-KOTE** is your assurance of having a roof that meets every requirement. Packed in rolls 36 inches wide, containing 108 square feet. Nails, patent caps, cement and directions for laying furnished free with every roll. This material has a continuous service rec-

every roll. Prices: One-Ply, \$2.75; Two-Ply, \$3.25; Three-Ply, \$3.75.

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USE NO HOOKS

FLINTKOTE MIGCO

STAND ON END

GRIFFITH @ TURNER CO

VULCANOID ROOFING

An attractive and Cheaper than tin, slate, tile or shingles

3-ply weighs 54 lbs. **Price**..... Per Roll of 108 Square Feet.

CERTAIN-TEED ROOFING

When you want a smooth surfaced Roofing for your House, Barn, Garage, Factory, Warehouse, Sky-scraper, Church, Apartment Building, or Farm Building, get

CERTAIN-TEED

-guaranteed 5, 10, or 15 years for 1, 2, or 3-ply respectively— backed by the responsibility of the World's greatest and big-gest Roofing and Building Paper Mills. The Certain-teed label on this Roofing stands for a definite guaranteed service— a protection for you. Why try to save a dollar or two by putting on a cheap Roof that is not guaranteed, when you can buy Certain-teed for just a little more money and get much longer service on your Roof. In the long run it's less ex-pensive to buy Certain-teed.

			feet\$	
			feet	
3-ply,	108	square	feet	3.50

COMPETITION GRADE ASPHALT ROOFIN

Intended for temporary buildings and takes the place of 2 and 3-Ply Tar Paper and will give much better service.

GENASCO ROOFING



THE STRIKING FEATURES OF GENASCO SMOCTH SURFACE READY ROOFING

are great durability and reasonable cost. These are the advantages that count most whenever you roof a building, yet no-where are they combined as in **Genasco** Ready Roofing.

WHY IT IS DURABLE

The asphalt with which Genasco is water-proofed comes from the source that produces asphalt of the highest grade and most uniform quality in the world—Trinidad Lake. It is the most effective waterproofing and weather-resisting material known. With our knewledge of asphalt course

and weather-resisting material known. With our knowledge of asphalt, cover-ing over a third of a century's experi-ence we combine this natural product by a scientific process with high-grade felt, to make Genasco Smooth Surface Ready Roofing. Trindad Lake Asphalt, which has withstood the scorching sun and terrific storms of the Tropics for centuries, gives Genasco its lasting life. Upon a foundation of densely com-pressed felt, thoroughly saturated with the natural asphalt, a heavy coating of asphalt is applied to both sides, making Genasco a pliable, smooth-surface roof-ing that retains its life through years of sun, rain, snow, wind, heat and cold.

WITH KANT LEAK KLEETS 1-Ply, \$3.25; 2-Ply, \$3.90; 3-Ply, \$4.50. With nails and cement, 25c. less per roll.





GRITCO is an exceedingly high-grade roofing, made especially for us, and fully guaranteed. It does not possess the exclus-ive features found in the Rex Flinktote, al-though climate conditions will not affect it for many years. The ingradients used in for many years. The ingredients used in the **GRITCO** are especially selected for their chemical adaptability, and in manufac-ture the utmost care is used to produce a uniform and dependable article.

Sufficient nails and cement packed in each roll.

Prices: One-Ply, \$2.50; Two-Ply, \$2.90; Three-Ply, \$3.00.

108 Square Feet to Roll.





MAND ON EN

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DURABLE

ROOFL

CHURPHINE & TURNER CO

N.PACA S

SE NO HOP

This is a very high-grade roofing made of wood felt, thoroughly saturated with a non-drying gummy compound that remains soft and pliable in either hot or cold weather, and is absolutely water-proof. It is coated with a non-oxidizing water-proof coating. This combination produces a roof covering good for all time, in all climates, under all conditions. It is strong, durable and easy to lay. It is acid and alkali-proof, and fire-resisting. Is made in one,- twoand three-ply, weighing 35, 45 and 55 pounds, respectively.

Each roll is packed with nails, caps and cement paint.

108 square feet to roll.

1-Ply, \$2.50. 2-Ply, \$2.75. 3-Ply, \$3.25.

URCO ROOF Turco is a reliable roofing, but cannot be

expected to give the same service as the Rex Flintkote or Gritco, because its price is less: but for temporary buildings and

small buildings, where conditions are not severe, Turco will give you good service.

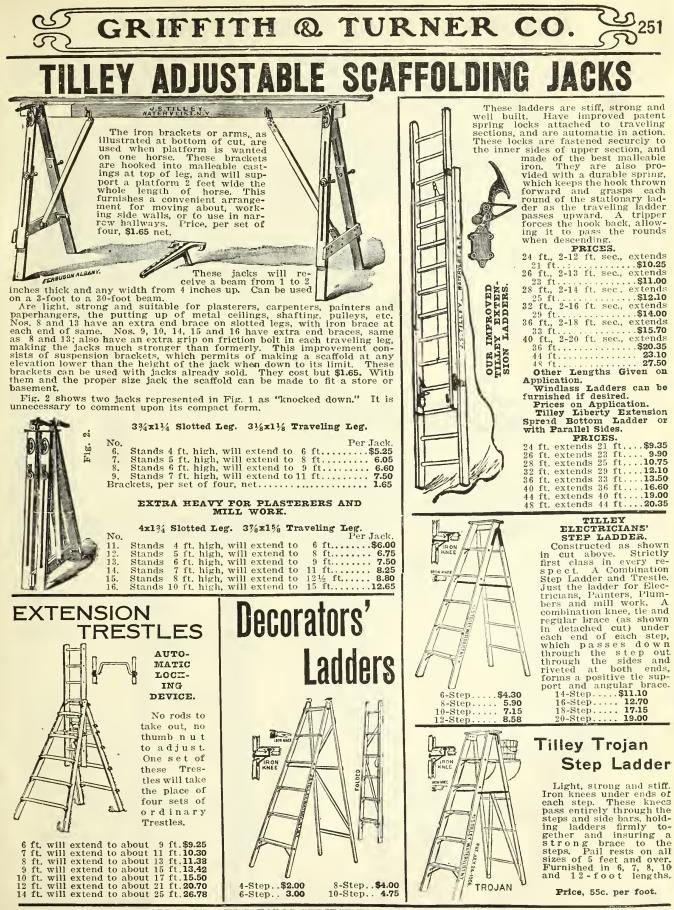
The materials used in the manufacture of Turco are selected with care, and are put together with care, and are carefully examined before shipped.

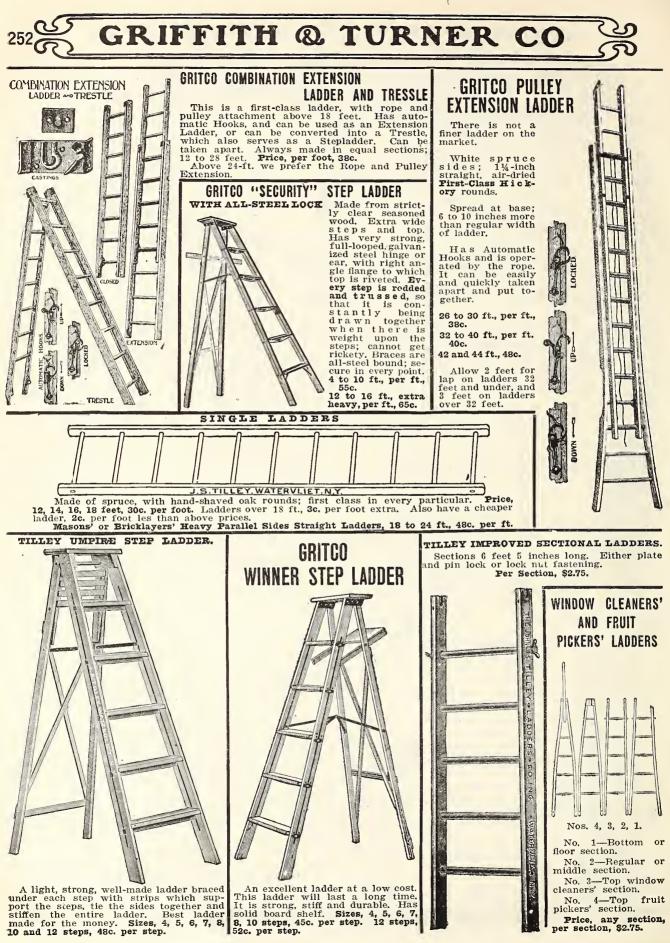
Sufficient nails and cement packed in each roll.

Prices: One-Ply, \$2.25; Two-Ply, \$2.60; Three-Ply, \$3.00.

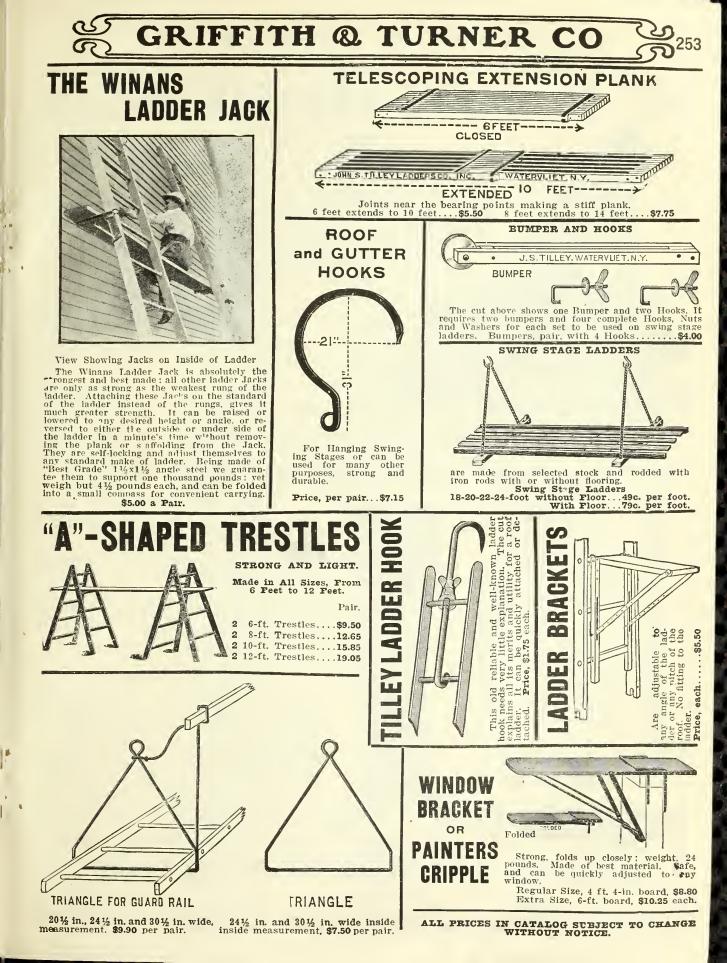
108 Square Feet to Roll.







No. 4—Top fruit pickers' section. Price, any section, per section, \$2.75.





THE COASTER WAGON THAT LASTS FOR YEARS AND ALWAYS RUNS SMOOTH





finished. PRICE.....\$2.00

THE CAPITOL HOG OILER



SIMPLE IN CONSTRUCTION

You may see by the picture that the Capitol Hog for any see by the picture that the **capitol** hog **colling Machine** is very simple and that there is no pos-sible chance for waste of oil nor is there any chance for dirt to interfere with the working principles of this machine. You will notice there are three rubbing bars making it possible for two or three hogs to rub on the oil or of the same time. Oiler at the same time.

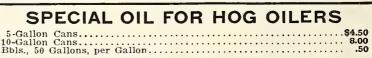
As soon as the hog starts to rub on the bar this will open the feed allowing the oil to run down the bar placing oil on the infected part. The bars are held firmly in place by guiders and the opening which gauges the feed is governed by a spring, which prevents all possible abance for waste of oil. possible chance for waste of oil.

There is nothing to break or get out of order. This machine will last a life time.

DON'T TAKE CHANCES

For years the successful hog raisers have been look-ing for an Oiler that would work perfectly. There have been a large number of Hog Oilers placed on the market, each and every one has its merits, while at the same time there are with a great many of them a host of disadvantages which the manufacturers cannot avoid.

of disadvantages which the manufacturers cannot avoid. In considering the advisability of purchasing the **CAPITOL HOG OILER** we want you to feel perfectly satisfied before placing your order that you are giving your patronage with the right concern, and that you may confidently expect in return the best of service and that you are buying an article that is thoroughly re-liable, and sure to meet your expectations in every de-tail. If you desire any further information we respect-fully solicit your inouiry for such and your request shall have our immediate attention.



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FERTILIZERS FOR THE FARM LAWN and GARDEN

On account of the unsettled conditions of the market on certain chemicals that go to make up fertilizers, we are unable to give prices that would likely be maintained for any length of time. We have therefore left out prices, but would be pleased to quote you on your requirements. Kindly write for prices.

The application of Fertilizers has been a topic much discussed among farmers generally. The quality and requirements of the soil are so varied, some lands being deficient in Potash, Phosphoric Acid or some other chemical ingredient, that it is frequently very difficult for the farmer to determine just what mixture he needs. We give below a line of fertilizers best adapted to the various soils and crops.

Ammoniated Alkaline Plant Food

Our old stand-by for summer crops; is used largely on Potatoes, Corn. Tobacco and other summer crops, stands the hot, dry weather particularly well.

dry weather par. Price Per Bag. Price Per Ton.

Write for prices.

Ammoniated Butchers' Bone Phosphate

Is made largely from slaughter-house stock; used principally for Wheat and Grass, as well as by growers of Corn and Tomatoes for canning purposes. A good article at a low price.

Price Per Bag. Price Per Ton. Write for prices.

Animal Bone Phosphate

Made from Animal Bone, Potash and Amoniates in proper proportion. A com-plete manure always gives good results. Specially adapted to the growth of Peas, Cabbage, Wheat and Grass. It contains the ingredients nccessary to supply what may be lacking in the soil for almost any crop.

Price Per Bag. Price Per Ton. Write for prices.

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Sheep Manure

This is purely a natural and most nutritious plant food, clean to handle, and its effect is immediate and lasting. There is nothing better to mix with soil for potting plants. Florists who use it extensively adplants. Florists who use it extensively ad-vise mixing about one-seventh manure and six-sevenths soil. As a top dressing for lawns it is unequalled.

5 lbs. 30c. 10 ibs. 50c. 25 lbs. \$1.00 50 lbs. \$1.75. 100 lbs. \$2.75

Special prices in tons, ½ tons or carload

Hydrated Lime—For Improving the Soil

Hydrated Lime is a soil sweetener and is free from injurious qualities. It is cheaper than any other lime product which can claim to be at all competitive, and is more easily handled. There has been an enormous increase in its use in recent years, keeping pace with the growing of clover and alfala. Hydrated Lime, while an indirect plant food, is as essential to the maximum productio: of some crops as is direct plant food. In addition to producing chemical changes Hydrated Lime also has mechanical effects, making clay soils more friable and more open to both air and water and so less susceptible to ex-treme dry and wet weather. In sandy soil the action is practically reverse; Lime in such soil has a cementing tendency and helps the soil to retain moisture.

We recommend the free use of Hydrated Lime on lawns.

Per	Bag	of	50 Pounds\$.75	
Per	Bag	of	100 Pounds 1.50	
Per	Ton	in	Paper Bags 18.00	
Per	Ten	in	Cotton Bags 21.00	

Write for prices in larger lots. Special inducements offered for car lots in bags.

Soft Ground Bone

Made from softer material than the reg-ular "Ground Bone," and contains some little meat and blood. The great objection to the use of Pure Bone (the price) no longer prevents its use by any one want-ing to restore worn-out land. Try it and convinced.

PRICES

5-lb. package, 35c. 10-lb. package, 60c. Price Per Bag. Price Per Ton. Write for prices.

Special Raw Bone Meal

Made especially for Florists and Garden-ers. Is exceedingly fine, and in addition to this, it is the Pure Bone, containing no foreign matter at all. Write for sample. Price Per Bag.

Price Per Ton.

Write for prices.

Special Potato Fertilizer

Made especially for potatoes, running high in Potash and containing Ammonia and Available Phosphoric Acid in proper proportion for good results on this crop.

Price Per Bag. Price Per Ton. Write for prices.

Hardwood Ashes

Unleached

Most excellent for lawn dressing or orchards. Apply late in the fall or early spring, in order that the rains may leach the ashes and carry the elements down to the roots of the trees or grass. The ashes are in proper condition for immediate use. Apply at a rate of 1600 to 1500 pounds per gere per acre. Barrei.

Price, 100 pounds,

Blood, Bone and Potash Mixture

Special High-grade Trucking Fertilizer. Extensively used by the leading truckers of Baltimore and Anne Arundel Counties with great success.

Price Per Bag. Price Per Ton. Write for prices.

Tobacco Bed Fertilizer

This brand is specially well adapted for use on tobacco beds, containing 10 per cent, of Ammonia and a good percentage of Potash and Phosphoric Acid. A most ex-cellent substitute for Peruvian Guano. In bags, 167 lbs.

Price Per Bag. Price Per Ton. Write for prices.

Land Plaster

In bags, 200 lbs. each. per bag. per ton.

Fine Ground Fish Ground Tankage High Grade Acid **Phosphate** Kanit, Muriate of Potash Nitrate of Soda Sulphate of Ammonia Peruvian Guano PRICES ON APPLICATION

For those that need only a small quantity of Fertilizer we put up the following brands in small packages. GROUND BONE

10-pound 50-pound	Packages \$.35 Packages .60 Packages 2.25 Packages 4.00
	PLANT FOOD
10-pound 50-pound	Packages \$.30 Packages .50 Packages 1.75 Packages 3.00
	SHEEP MANURE
5-pound 10-pound	Packages \$.30 Packages .50
	NITRATE OF SODA
5-pound	Packages\$\$



