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Seed and Nursery Book for 1931

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"IT'S NOT A HOME UNTIL IT'S PLANTED"

Let us make you an
Outdoor Living
Room. (See
Page 1)

Vegetable Seed Trials

PORTER-WALTON CO.

SALT LAKE CITY, UTAH

"Salt Lake Country Club" Where P.-W.'s Grass Seed Mixtures Made Beautiful Lawns Putting-Greens and Fair-Ways.

P.-W.'s "GOLF LINKS" GRASS MIXTURE

Prepared with the object of producing a thick turf that will stand the hard usage suffered by the average Fair-way. For the Golf Course, Teeing Ground, Football and Polo Fields and other Athletic Grounds, or for the Lawn which has to withstand hard wear, this mixture will give perfect satisfaction. We prefer to prepare special mixtures to suit the location and soil to be seeded. In ordering, please state whether low and wet, high and dry, sandy or clayey as the case may be, and we will send a mixture specially adapted to the condition you name. Where large tracts are shown, we quote special prices.

P.-W.'s Special Golf-Course Mixture for Fair-Greens.
10 lbs., \$5.50; 25 lbs., \$12.50; 100 lbs., \$45.00.

P.-W.'s Special Putting-Green Mixture. 10 lbs., \$7.50; 25 lbs., \$17.00; 100 lbs., \$66.00.

P.-W.'s LAWN SEEDS

The lawn is the most important factor in the development of the home grounds. It furnishes the setting for the house and puts the finishing touch on an attractive home. Proper grass seed mixtures cannot be selected and compounded in a haphazard manner. It requires precise knowledge and experience to produce a formula that will meet the varying condition of soil, situation and climate and produce throughout the entire season a beautiful green sward. Through years of experimentation we have developed Lawn Grass Mixtures which we can unhesitatingly recommend. They are composed of only plump, clean, vigorous seeds which are sure to produce satisfactory results.

HOW TO MAKE A LAWN

The ground should be well spaded and thoroughly raked, so that the soil is fine and free from lumps and its surface smooth, even and firm. If a thick, heavy sod is wanted quickly, seed should be sown at the rate of one pound to 150 or 200 square feet. It takes twice as much seed to make a lawn as it does for raising hay and it frequently happens that good results are not obtained on account of scanty seed. A dressing of granulated Peat Moss on a new lawn is very beneficial (see page 25).

P.-W.'s LEAFLET ON "HOW TO MAKE AND CARE FOR A LAWN" SENT FREE UPON REQUEST—WRITE FOR COPY

P.-W.'s Velvet Green Lawn Mixture The best lawn seed experience can suggest or that money can buy. Produces a beautiful, permanent lawn in four to six weeks. By properly choosing early, medium and late grasses a smooth, even green lawn is assured from early spring to late autumn. In P.-W.'s Velvet Green Grass Seed are included only the very best varieties—pure, clean and free from foul seed. Sow at rate of one pound to 200 square feet. Price: Lb., 75c; 3 lbs., \$2.00. Postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00.

P.-W.'s Lawn Terrace Mixture This produces a deep-rooted, fine, green, closely interwoven, velvety surface, which will hold together under the most severe conditions. Price: Lb., 75c. Postpaid. Not prepaid, lb., 70c; 10 lbs., \$6.50.

Shady Nook Lawn Mixture Prepared especially for shady places where it is difficult to get a turf established. Lb., \$1.00, postpaid. Not prepaid, 90c lb.; 10 lbs., \$8.50.

White Clover First class re-cleaned seed. Specially selected for lawn use. Lb., 75c; 3 lbs., \$2.00, postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00.

P.-W.'s Creeping Bent This is the true Creeping Bent Grass, which we are able to offer to the trade this season.

P.-W.'s Creeping Bent has been harvested under closest inspection. Especially recommended for Law and Golf Courses, for the reason that it makes an exceptionally fine turf that smothers out dandelions and other weeds. It is an ideal lawn grass, makes a very fine, green color, close sward and adapts itself readily to any soil.

Sow in Fall or Spring 3 to 4 pounds to 1,000 sq. ft. We offer the best obtainable grade of this species. 1 lb., \$1.75; 3 lbs., \$5.00. Postpaid.

Red Top Grass Fancy re-cleaned solid seed; in popularity for lawn use it is a close second to Kentucky Blue Grass. Lb., 55c, postpaid. Not prepaid, lb., 45c; 10 lbs., \$3.75.

Kentucky Blue Grass The main stay for lawn making our stock is extra fancy re-cleaned heavy seed. The purest and cleanest obtainable. Lb., 75c; 3 lbs., \$2.00. Postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00.

Chewing's Fescue Because of its good creeping root system this makes splendid turf for putting greens. When used for greens it should be sown alone. It makes a good ingredient for lawn mixture as it does well in sandy soil and in shaded places. Sow in spring or about the first of September. Lb., 65c; 3 lbs., \$1.85. Postpaid. Not prepaid, lb., 60c; 10 lbs., \$5.50.

The very best lawn fertilizer we know of at present is "Vigoro." (See page 32).

P.-W.'s Velvet Green Lawn Mixture Used on This Lawn
For Complete list of Grass Seeds See Page 44.

Upper Left—Our Greenhouses at Centerville where germination tests are made. Soil tests to maturity are conducted in "open ground trials" at our Centerville Seed Trial Grounds.

Lower Left—A field of young Peach Trees at our Centerville Nurseries.

Center—General Offices and Store located at the corner of Richard Street at First South Street. Our Nursery Sales Yard is immediately across on Richard Street, very conveniently situated for both local and out-of-town visitors.

Upper Right—Salt Lake City Seed and Nursery Warehouse. Buildings No's. 1 and 2 provide frost and heat proof storage for Trees, Shrubs and Bulbs and No's. 3 and 4 house modern seed cleaning machinery and provide partial storage for Vegetable, Flower and Farm Seed Stocks. The combined storage capacity is 75 carloads.

Lower Right—A mid-season snapshot showing one of our fields of one-year-old Apple Trees at our Centerville Nursery. Like all the rest of our Fruit Stock, the above were budded from the choicest bearing trees, critically selected and carefully labeled by our expert nurserymen.

ABOUT PRICES AND DELIVERY

The Prices in This Catalog Cancel All Previous. All quotations on seeds, unless otherwise noted, are based on prepaid charges by us to your express or post office. Safe delivery is positively guaranteed. You are therefore, as close to us as your Post Office or Railway Station. These prices are as reasonable as we can sell in the quantities specified and will be adhered to during the season or as long as the stocks last.

Trees, shrubs and seeds in quantity, poultry, supplies, etc., quoted "Not Prepaid" are F.O.B. Salt Lake City, and purchasers pay expenses of freight, express or parcel post. If wanted by parcel post, always send postage with the order. See back of "order blanks" to ascertain the amount of postage.

The Order Blank attached to this catalog will be convenient for customers and facilitate our filling orders (extra ones mailed free on request).

YOUR SATISFACTION GUARANTEED OR PURCHASE PRICE REFUNDED

If such a rare circumstance should happen that your garden failed through the fault of planting material purchased from us, we will refill the order or refund the entire purchase price of the stock in question. No seedsman in the world will do more, and most of them would do nothing after it is accepted and planted. Of course, we cannot guarantee or assume any responsibility for the crop, as we cannot control the weather, soils, moisture, pests and other agents which make for success or failure. Also as long as the human element is involved in the handling of stocks we are compelled to sell, subject to the following disclaimer adopted by the American Seed Trade Association: "The Porter-Walton Company gives no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds or plants it sends out and will in no way be responsible for the crop. If the purchaser does not accept the goods on these terms they are to be returned at once." We guarantee all nursery stock to leave us in a first class, live, growing condition. Responsibility rests with all customers to examine carefully upon arrival as we can assume no liability for failure to grow after nursery stock has been accepted and planted.

After 26 years of painstaking service, your patronage is solicited with the assurance that everything you receive labeled PORTER-WALTON has behind it the integrity and stability of a responsible house, characterized by dependable quality, high efficiency and a desire to please.

Seed Trial Grounds and Nurseries,
Centerville, Utah.

Nursery Sales Yard (Opposite City Store),
Corner of Richards St. at First South,
Salt Lake City, Utah.

Yours for another Wonderful Garden this year,

PORTER-WALTON COMPANY,
Gen. Offices, Store and Mail Order Dept.,
Cor. Richards St. at First South Street,
Salt Lake City, Utah.

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A view of an Outdoor Living Room that Won a First Prize in Garden Contest.

What is the View from YOUR rear window?

Do you see an attractive lawn where the trees in leafy splendor give welcome shade—where shrubs, with graceful foliage shut out undesirable views—where smiling flowers, nodding in the sunlight, beckon you out of doors?

Or do you see a picture which instinctively makes you want to turn away?

In the modern home, beauty does not stop at the window—it carries on into the garden beyond.

You Should Have an Outdoor Living Room—one costs so little and adds so much to the joy of living! Plan it as you would a room within your home. Let the sod provide a soft, velvety carpet of rich green. Plant trees, shrubs and evergreen to give privacy. Add color and fragrance by means of hardy flowers. Then set a few

trees to provide comfortable shade and perhaps fruit for your table.

Do this and you will enjoy countless hours of pleasure and satisfaction. Here, in your outdoor living room, away from household cares and worries, you can work among shrubbery and flowers to your heart's content, free from prying eyes.

A Safe Playground For Your Children—here your children will delight to play in safety and happiness. And what a pleasure for the men, when the hot day is ended, to join the family in an impromptu picnic in the coolness and comfort of your outdoor living room.

You Can Make All This Come True!—Start planning right now. You'll be pleasantly surprised at the small investment required.

BEAUTIFY YOUR GROUNDS THE PORTER-WALTON WAY

Upon receipt of sketch and information as outlined below, we will prepare a plan for you, incorporating original ideas, giving you a practical and artistic effect throughout the year.

This service is, in reality, rendered **free of charge**. Please send **ALL** information just as early as possible as we like to have plans to work on before the busy planting season begins.

SEND JUST A SIMPLE SKETCH WITH THIS INFORMATION

Your sketch need not be drawn to scale, but give all dimensions of buildings and lot. Show location of buildings on lot.

Give points of compass.

Show location, trees and shrubbery now on place.

Show location of all walks, drives, etc.

Give all grades, show terraces, etc.

Show any objectionable views to be screened.

Attach kodak views taken from north, south, east and west sides of lot.

Show where windows in first floor are placed.

Is house one, two or three stories?

Color of house—brick, frame or stone.

Height of foundation and windows.

Do you like a lot of shrubbery?

Do you want any hedges? Where preferred?

Do you want us to locate trees, drives and walks?

Where no order accompanies request for plans, a deposit of \$2.50 is required, this will be credited on first order for nursery stock so plans cost you nothing.

NOTE—For owners of larger places—Schools, Parks, etc.—We are prepared to make plans by mail, but suggest a personal survey by our Landscape Architect. Our terms are reasonable for such services and will be stated in correspondence.

Do you prefer any particular kind of trees?

Do you want a rose bed?

Do you want a formal flower garden?

Do you want any fruit trees?

Do you want any Evergreens?

Do you want a vegetable garden? Where preferred?

What is the character of soil.

Let us Caution—Do not be discouraged and give up the plan in case the cost of a complete planting seems to be beyond what you can afford to invest immediately. Plant the portion you can reach this year and when really necessary, leave the remainder for following years. Planting to a well thought out plan will reward you handsomely in increased values as well as being a source of pride, joy, and satisfaction during the entire lifetime of the materials used.

P.-W.'s OUTDOOR LIVING ROOM COLLECTION OFFER

Just as a starter we here offer a dozen shrubs that will help make the framework of most Outdoor Living Rooms. In order to complete the planting other shrubs and plants will be needed. If you will give us information asked for above, we will send a sketch showing proper placement of those offered here as well as suggest what will be necessary to make a beautiful completion.

This collection includes one each extra size large specimen shrub of the following varieties:

Amorpha fruticosa

Caragana Siberica

Cydonia Japonica

Deutzia Pride of Rochester

Forsythia Fortunei

Honeysuckle Tartarian

Philadelphus Grandiflora

Rhus Typhina

Russian Olive

Snowberry

Syringa Vulgaris

Tamarix

Above too large for parcel post shipment, must be sent via Express or Freight.

12 Large Speciman Size
Shrubs

All For

\$9⁰⁰

F.O.B. Salt Lake

FRUIT TREES

At our Centerville Nurseries we have a particularly fine lot of strong, healthy fruit trees. This stock has been selected and critically grown to meet the requirements of orchardists planting for eastern or local markets. We believe, also, those of our patrons who are planting a small orchard for home use will find sufficient variety to amply fill every want in the fruit line.

Average weight of Fruit Trees packed for shipment as an aid to determine carriage charges: The general run of fruit trees, either in bales or cases, average about as follows: 6 to 8 ft., 2 lbs. each; 4 to 6 ft., 1½ lbs. each; 3 to 4 ft., 1 lb. each; 2 to 3 ft., one-half of a lb. each; Grapevines, one-third of a lb. each.

FULL DIRECTIONS FOR CARE AND PLANTING FREE WITH EACH ORDER

It is very easy to transplant trees successfully if these directions are followed:

With "Our Quality Trees" the most inexperienced men can set out orchards with the highest degree of success.

Certificate of Inspection, showing freedom of our stock from San Jose and other injurious insects and diseases, will be attached to all shipments.

GUARANTEE OF GENUINNESS

Our Fruit Trees are all budded or grafted from bearing trees, and every care and precaution is exercised to have them true to name. With all our caution, mistakes are liable to be made; but we hold ourselves in readiness, on proper proof, to replace all trees and other stock that may prove untrue to label, free of charge, or refund the amount paid. It is mutually understood and agreed to between the purchaser and ourselves, however, that our guarantee of genuineness shall, in no case make us liable for any greater sum than that originally paid by us for the trees, etc., which may prove untrue.

GUARANTEE OF SAFE ARRIVAL IN GROWING CONDITION

Our trees and shrubs are most carefully inspected for vitality before orders are dispatched and carefully packed to endure the journey so they should reach you in "A-1" shape for planting. We are not responsible for damage to goods in transit, therefore, you must examine at the express or freight office and have any damage noted upon your express or freight receipt. We are always glad to replace goods injured in transit, providing receipt showing damage is returned to us so that we may enter claim and reimburse ourselves.

After stocks have been received and planted, failure to grow is entirely at the risk of the purchaser as we have no control over the planting, soil, culture, or the enemies of plant life and, therefore, can assume no liability whatsoever regarding the continued growth and can make no replacements in case of failure.

"RED STEER" Fertilizer will greatly hasten and increase production. See page 32.

Apples

"The King of Fruits"—"An Apple a Day Keeps the Doctor Away"

No other fruit succeeds over so wide a range of territory and under such diversified climatic conditions, and no other fruit brings so sure a return to the grower in proportion to time and money expended upon its production. It has few rivals among cultivated fruits. Its mild and pleasant acid is a panacea for many of the ills that the human race is heir to. No fruit can be more pleasant to the palate or more beautiful to the eye than the rich, ripe apple when plucked from the tree or more luscious and beautiful when cooked.

The grades and prices are as follows, f.o.b. Salt Lake City:

	Height Feet	Caliber Inches	Each	10 to 20 Ea.	20 to 40 Ea.	40 to 100 Ea.
Extra.....	5 ft. up	12/16 up	85c	70c	50c	45c
Home Or.....	4 ft. up	9/16-11/16	65c	55c	45c	35c
Coml. Or.....	3½ ft. up	7/16- 9/16	50c	45c	35c	30c
Mail.....	2½ ft. up	5/16- 7/16	35c	25c	24c	22c

See page 5 to determine the number of trees required for an acre.

Autumn Varieties

Gravenstein—Yellow red striped, very large. Ripens in September.

Maiden's Blush — Medium size, pale yellow with beautiful red cheek.

Twenty Oz. Pippin—Large yellow and striped. Good cooking apple.

Wealthy — Dark red, sub-acid. Trees bear very young.

Summer Varieties

Red Astrachan—Fruit large, beautiful deep crimson yellow. Ripens July and August.

Early Harvest — Medium size, nearly round, pale yellow, July and August.

Red June—Medium size, oblong, red, flush white and juicy, sub-acid. Ripens in July.

Yellow Transparent—One of the earliest, pale yellow when ripe; good quality. Succeeds well in cold climates. Ripens in July.

Winter Varieties

Red Delicious—Large, handsome winter apple, delightful flavor, ripens late fall.

Golden Russett — Good medium sized early winter apple. Russet brown turning golden yellow when ripe. Excellent flavor.

Grimes Golden Pippin—Rich, golden-yellow; flesh tender, juicy and rich, November to December.

Jonathan—Probably the best apple in regard to flavor and quality ever grown in America. Deep red.

McIntosh Red — Large, all red; good keeper.

Northwestern Greening — Fruit large; flesh yellow and fine grained.

"Mail" and "Commercial Orchard" sizes can be forwarded via Parcel Post where necessary, respective weights are indicated above so as to determine postage necessary.

Jonathan

Crab Apples

These miniature apples are highly esteemed for making jelly; extremely prolific bearers. Every Home Orchard should have at least one or more trees.

Hyslop—Fruit deep crimson, covered with blue bloom. September.

Siberian—Beautiful red. September.

Transcendent — Fresh yellow, fine grained, juicy, ripening in August and September.

Red Delicious Apple

Rhode Island Greening — Large greenish-yellow.

Rome Beauty—Fruit large, yellow with red; good quality and long keeper.

Spitzenburg — Medium to large, all-over bright red, faintly darker striped and dotted. Flesh tinged with yellow, sprightly sub-acid, juicy and aromatic.

Wine Sap—Smooth, greenish-yellow, splashed and striped with red and purple.

Winter Pearmain — Pale yellow; flesh yellow, juicy, tender.

Winter Banana—Flesh golden-yellow; fine grained and juicy.

Apricots

For canning, evaporating and drying purposes, as well as for use in the fresh state, the fruit can hardly be excelled.

	Height	Caliper	Each	10 to 20 to 40 to
				20 Ea. 40 Ea. 100 Ea.
Extra	5' up	12/16 up	\$1.00	75c 65c 60c
Home Or.	4' up	9/16-11/16	65c	60c 55c 50c
Coml.	3' up	7/16-9/16	55c	50c 45c 40c
Mail	2' up	5/16-7/16	50c	40c 35c 30c

P-W's Chinese—Large, round, deep yellow. Late June. **Jones**—Similar in most every respect to P-W's Chinese highly prized locally. **Moorepark**—Very large, yellowish-green; best variety for no colder sections than Salt Lake. Late June. **Superb**—The most productive hardy apricot; medium size, light salmon color.

Quince

Orange Quince—Large; roundish, with short neck; beautiful bright golden yellow; an old favorite for making jelly. Standard size, \$1.25 each; \$10.00 per 10.

Cherries

Should be planted in light, well drained soils. There is always a brisk market demand, and in localities where they can be grown no home orchard is complete without a few "Sweet" and one or more "Sour" or Pie Cherry Trees. Prices according to grade are as follows:

	Height	Caliper	Each	10 to 20 to 40 to
	Feet	Inches		20 Ea. 40 Ea. 100 Ea.
Extra	5 ft. up	12/16 up	\$1.00	85c 80c 60
Home Or.	4 ft. up	9/16-11/16	.85	75c 70c 55c
Coml. Or.	3 ft. up	7/16-9/16	.75	65c 60c 50c
Mail	2 ft. up	5/16-7/16	.65	55c 50c 45c

SWEET CHERRIES

Bing—Very large, dark brown—almost black—rich and delicious. Ripens in July. **Lambert**—Immense, deep red. July. **Napoleon**—Very large pale yellow, red cheek. June. **Black Tartarian**—Very large, purplish-black, mild and sweet. Ripens first of July. **Winsor**—Fruit large; heavy bearer; beautiful dark color, almost black.

SOUR CHERRIES

Early Richmond—Medium, dark red; melting juicy. **Montmorency**—Large red. Late June to July. **Reine Hortense**—Sweeter and larger than May Duke. Color deep red. Ripens in August. **May Duke**—Fruit dark red; juicy and rich. June.

Peaches

Probably the finest of our fruits, everybody delights in the flavor of a fine juicy Peach. Should plant in light soils, does not succeed well in low, heavy situations. Prices according to grades as follows:

	Feet	Inches	Each	10 to 20 to 40 to
	Height	Caliper		20 Ea. 40 Ea. 100 Ea.
Extra	5' up	12/16 up	75c	65c 55c 45c
Home Or.	4' up	9/16-11/16	65c	55c 45c 35c
Coml. Or.	3' up	7/16-9/16	55c	45c 35c 30c
Mail	2' up	5/16-7/16	45c	35c 30c 25c

USE "PARADOW" FOR PEACH BORER. (See Page 29)

Alexander—Handsome, crimson. Ripens about July 4. Freestone. **Crawford's Early**—Freestone. Fruit very large, oblong, yellow with fine red cheek. Flesh yellow, juicy and sweet. August. **Crawford's Late**—Ripens September. Otherwise same as Crawford's Early. **Greensboro**—Double the size of Alexander, ripening at the same time. Flesh white, juicy and good. July. **J. H. Hale**—Large orange-yellow, considered by many superior to Elberta. Freestone. **Orange Cling**—Very large; yellow with dark crimson cheek; flesh golden-yellow. **Health Cling**—Large oblong, creamy white, rich and luscious; valuable canning peach. **May Flower**—The earliest peach on the market; red all over; flavor excellent. Freestone. **Elberta**—A leading market variety, large, handsome bright yellow overspread with crimson; juicy, fine shipper. Freestone. **Early Elberta**—About ten days earlier than regular Elberta, otherwise similar. **Carman**—Color creamy white or pale yellow, with deep blush; freestone. August to September. **Red Bird Cling**—The earliest of the large clings. Color creamy-white, overspread with red. **Rochester**—Ripens July. Large, round, early orange-yellow. Freestone.

Nectarines

The Nectarine has a smooth skin like the plum. It is like the peach in other ways and requires the same culture. Its pungent, sprightly flavor is reminding of both, but with an added deliciousness all its own. Set trees 16 to 18 feet apart.

Boston—Bright yellow, red cheek; flesh yellow, freestone, fine flavor. Standard Size—Each, \$1.00; \$9.00 per 10. Mail Size—Each, 85c; \$7.50 per 10.

Nut Trees

Soft Shell Almonds—I. X. L., each \$1.00; \$9.00 per 10.

Utah English Walnuts—Hardy in any section or situation where apricots and peaches can be grown.

4-6 feet—Each \$1.50; \$12.00 per 10.
6-8 feet—Each \$2.50; \$20.00 per 10.

Use "Red Steer" For Quick and Increased Orchard Production. (See page 32)

Bing Cherries

Triumph—Ripens in early July; color greenish yellow, flesh yellow with red stains. **Tuscan Cling**—Large; yellow, heavy bearer and one of our best Clings; fine shipper. In great demand being one of the first Clings to ripen.

Prices on all above Fruit stocks are F.O.B. Salt Lake City—we advise shipment via freight or express where possible. Mail and commercial orchard sizes can be forwarded parcel post when necessary. See page 2 to determine weights for computing postage.

PLUMS—PRUNES

Height	Caliper	Each	10	100
5 ft.	12/16"	80c	70c	60c
4 ft.	9/16"	70c	60c	50c
3 ft.	7/16"	65c	55c	45c
2 1/2 ft.	5/16"	55c	45c	35c

Burbank—Large, round, mottled red and yellow. July.

Bradshaw—Very popular market variety Large purple.

Peach—Very large; brown-red; flesh pale yellow. Ripens in early June.

Damson—Medium dark blue; flesh amber; good for preserving.

Green Gage—Fruit pale green, rich and juicy.

Pottawatamie—Excellent small plum for preserving.

Satsuma—A fine large plum; purplish-crimson; pit exceedingly small. Delicious flavor. July.

Jefferson—Fine large early red.

Improved French Prune—This much larger than the old well known brown French and superior in every way. Fruit red and sweet.

Hungarian Prune—A large dark red.

Italian-Fellemburg Prune—Large oval, dark purple; flesh greenish-yellow; separates freely from stone; best for drying on the market. August-September. Best commercial sort.

PEARS

The cultivation of this noble fruit is extending as its value is appreciated. One important point in the management of the pear is to gather fruit in the proper time. Summer pears should be gathered at least ten days before they are ripe; and August pears at least a fortnight. Winter varieties may be left until there is danger of frost. Place in a dark room until fully matured. The pear succeeds on most soils, but probably does better on rather sandy loam. Prices according to grade as follows:

	Height	Caliper	Each	10 to 20 Ea.	40 Ea.	100 Ea.
Extra.....	5 ft.	up 12/16"	up 80c	70c	60c	50c
Home Orchard.....	4 ft.	up 9/16-11/16"	70c	60c	50c	40c
Com. Orchard.....	3 ft.	up 7/16-9/16"	65c	55c	45c	35c
Mail.....	2 1/2 ft.	up 5/16-7/16"	55c	45c	35c	30c

Bartlett—Fruit large, clear lemon yellow, highly flavored; very juicy. September.

Beurre D'Anjou—Large, of vinous flavor; one of the leading late autumn varieties.

Kelffer's Hybrid—Rarely ever blights. Fruit of fine size, rich color and good quality. October and November.

Parrish Favorite—New. Beautiful large winter pear, ripening

in November-December. Will keep until spring, retaining its captivating flavor. Never blights. Best winter pear.

Clapp's Favorite—Summer pear, resembling Bartlett. Ripens in August.

Seckel—Small, yellowish-brown, tender, juicy melting. Ripens in September.

Winter Nellis—A good winter variety of medium size.

CHOICE SELECTION SMALL FRUIT

Nothing in fruit growing at the present is attracting more attention than berry growing. Under suitable conditions as to soil, proximity to market or shipping point there is nothing more profitable. Our local markets, even in small towns, are never overstocked and will take everything offered at remunerative prices.

Blackberries

Price—except where noted, each, 15c; ten, \$1.25; 50, \$4.50; 100, \$8.00; \$70.00 per 1000.

Early Harvest—Berries uniform, glossy black; very early.

Mesereau—Splendid, large, very productive, without core, sweet rich flavor.

Wilson—Hardy, very sweet, juicy, a little later than Early Harvest.

Cory Thornless (New.. Blackberry) — The

big luscious berries often grow to a length of 2 1/2 inches, having a small core, are almost seedless and the distinctive flavor is suggestive of the wild berry. They are richer and sweeter than other blackberries, yet have sufficient acidity to make the finest of jelly. The vigorous canes, without thorns, grow erect to a height of about five feet then assume a trailing habit, making a growth of 25 feet or more. Each, 50c; dozen, \$5.00.

Lucretia Dewberries — (Creeping Blackberry)—Fruit very large, superb quality.

Raspberries

Price—Each, 15c; ten, \$1.25; 50, \$4.00; 100, \$7.50; per 1000, \$60.00, except where noted.

Cuthbert The best large dark red.

Louden—Very fine flavored dark crimson.

Marlboro—Large early red, splendid for localities where season is short.

Cumberland (Black Cap)—A very popular market type.

Gregg (Black Cap)—An old standby. Very productive. Jet black, good flavor. Each, 20c; ten, \$1.50; 50, \$5.50; 100, \$10.00.

St. Regis (New Everbearing Raspberry)—Has been aptly termed "the early till late" variety, for it is the first red Raspberry to give ripe fruit, while it continues to produce berries without intermission until late October. Unlike any other raspberry, St. Regis yields a crop of fruit the season it is planted. Good shipper. Each 20c; ten, \$1.50; 50, \$5.50; 100, \$10.00.

Loganberries

A hybrid between blackberry and raspberry. Fruit as large as largest blackberry and produces in large clusters. Each, 30c; ten, \$2.50; 50, \$9.00; 100, \$15.00.

Currants

Price—Except where noted, large 3-year-old roots, each, 30c; 10, \$2.50; 50, \$8.00; 100; 100, \$15.00; 1000, \$125.00.

Fay's Prolific—Fruit large, bright red and good flavor.

Perfection—Large, bright red; most popular new variety.

Utah Black (Native)—Black, rich, fine for jelly.

Lee's Prolific—Large black.

Gooseberries

Price—2-year-old strong plants, each, 30c; ten, \$2.50; 100, \$15.00.

Smith's Improved—Light greenish red, good size, very productive.

Oregon Champion—Splendid new red, medium size, wonderful yielder.

P-W's New White Smith—

The largest and finest in the list. Fruit very light green, almost white. Equally good for home or market. Each, 45c; ten, \$4.00.

Strawberries

All our plants are put up uniformly in bunches 25 plants each.

Aroma—This variety bids fair to supplant Marshall among commercial growers. Large bright red berries hold firm to distant markets. 25, 90c; 50, \$1.50; 100, \$2.25; 1000, \$15.00.

Marshall—As a large berry for home use it is peerless. The color is a rich, glossy crimson. 25 plants, 60c; 50, \$1.00; 100, \$1.75; 500, \$5.50; 1000, \$10.00.

Superb Everbearing—Yields good crops in June on the same plants that produced fruit the previous fall. Price: 25 plants, \$1.00; 50, \$1.50; 100, \$2.00; 500, \$8.00; 1000, \$15.00.

Mastodon Everbearing—Large luscious deep red berries, juicy and sweet, from June until heavy frost. The rich fragrance and exquisite aroma of the fruits are outstanding. It is one of the heavy yielders of the everbearing types. We are offering strong, well-rooted plants sure to bear the same season if planted early. 25 plants, \$1.25; 100, \$2.50; 500, \$10.00; 1000, \$18.00.

Everbearing Strawberries

P.-W.'s New Mammoth Everbearing Strawberry

When the Mastodon

Everbearing Strawberry appeared it was thought to be the last word in size and yield. Comparative tests now show that P.-W.'s New Mammoth Everbearing Strawberry is far its superior in size, color, flavor and yield. Particular advantages in this new strawberry are the vines are more dwarf, the berries ripen evenly, easier harvested, much larger in size and firmer in texture, making it supreme as a market berry as well as for home use. The first ripe berries appear about a week earlier than Mastodon and continue to bear until snow flies. Undoubtedly P.-W.'s Early Mammoth will supplant all other types of everbearers. Price: 25 plants, \$2.50; 50 plants, \$4.50; 100 plants, \$8.00; 1000 plants, \$70.00.

GRAPES

Prices except where noted, 2-year-old stock, each, 30c; Ten, \$2.50; Fifty, \$8.00; Hundred, \$15.00; Thousand, \$100.00.

Hardy American Varieties

Agawam—One of the best red varieties; large; pulp tender; sweet. August.

Campbell's Early—Large, nearly round, often an inch or more in diameter; black with light purple bloom; skin thin; flavor rich and sweet.

Catawba—Red well known as a wine grape. Bunches large and loose, berries large, of coppery-red color, becoming purplish when well ripened.

Concord—Well known, reliable, deep purple. An old standby. Most popular grape on the market. Each, \$5.00; ten, \$2.00; fifty, \$12.50; hundred, \$12.00; 1000, \$75.00.

Delaware—Bunches small, compact shouldered; small, round; skin thin, light red; flesh very juicy.

Niagara—Light greenish white; semi-transparent, slightly ambered in the sun; skin thin, tough; sweet to center.

Moore's Early—Bunch medium; berry large, round, black, with a heavy blue bloom; vine hardy and moderately prolific, desirable for an early crop.

Worden—Black, handsome, compact bunch; ripens three weeks earlier than Concord.

Concord Grapes

European Varieties

Must have winter protection or favored situations in Mountain States.

Black Malvoise—Berries large oblong, reddish black, very juicy.

Malaga—Very large, oval, yellowish green berries.

Flame Tokay—Large, sweet, red.

Prices: Any of above Each, 30c; Ten, \$2.50; Fifty, \$8.00; Hundred, \$15.00; Thousand, \$100.00.

Muscat—Large, light, colored raisin and wine grape.

Thompson's Seedless—The well-known seedless raisin grape.

Zinfandel—Well known wine grape.

TO INSURE LARGE YIELDS OF GOOD, CLEAN FRUIT, USE "RED STEER" FERTILIZER AND PROPER INSECTICIDES. (SEE PAGES 26-32).

HOME ORCHARD FRUIT COLLECTION

Consist of One Each of These Leading Varieties

1 Jonathan Apple 1 Delicious Apple 1 Bartlett Pear 1 Moorpark Apricot 1 Bing Cherry
1 Early Elberta Peach 1 Italian Prune 1 Concord Grape 1 Niagara Grape

All the Above Two-Year Stock, the entire Collection Delivered, All Charges Prepaid to your Express or Post Office
FOR ONLY \$4.00

NUMBER OF TREES OR PLANTS PER ACRE SET AT REGULAR DISTANCES

Distance apart	No. of plants	Distance apart	No. of plants	Distance apart	No. of plants
3 by 4 inches	522,720	4 1/2 by 4 1/2 feet	2,150	14 by 14 feet	222
4 by 4 inches	392,040	5 by 1 feet	8,712	15 by 15 feet	193
6 by 6 inches	174,240	5 by 2 feet	4,356	16 by 16 feet	170
1 by 1 foot	43,560	5 by 3 feet	2,904	16 1/2 by 16 1/2 feet	160
1 1/2 by 1 1/2 feet	19,360	5 by 4 feet	2,178	17 by 17 feet	150
2 by 1 feet	21,780	5 by 5 feet	1,742	18 by 18 feet	134
2 by 2 feet	10,890	5 1/2 by 5 1/2 feet	1,440	19 by 19 feet	120
2 1/2 by 2 1/2 feet	6,960	6 by 6 feet	1,200	20 by 20 feet	108
3 by 1 feet	14,520	6 1/2 by 6 1/2 feet	1,031	25 by 25 feet	69
3 by 2 feet	7,260	7 by 7 feet	888	30 by 30 feet	48
3 by 3 feet	4,840	8 by 8 feet	680	33 by 33 feet	40
3 1/2 by 3 1/2 feet	3,555	9 by 9 feet	537	40 by 40 feet	27
4 by 1 foot	10,890	10 by 10 feet	435	50 by 50 feet	17
4 by 2 feet	5,445	11 by 11 feet	360	60 by 60 feet	12
4 by 3 feet	3,630	12 by 12 feet	302	66 by 66 feet	10
4 by 4 feet	2,722	13 by 13 feet	257		

RULE—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet, for each plant or hill, which, divided into the number of square feet in an acre (43,560), will give the number of plants to the acre.

TABLE OF DISTANCES FOR PLANTING FRUIT TREES, ETC.

Apples, 30 to 40 ft. each way	Apricots, 18 to 20 ft. each way	Raspberries, 3 to .. ft. each way
Pears, 20 to 25 ft. each way	Quinces, 15 ft. each way	Strawberries, 1 1/2 to 3 ft. each way
Cherries, 20 to 25 ft. each way	Walnuts, 40 to 50 ft. each way	Blackberries, 6 to 8 ft. each way
Plums, 20 to 25 ft. each way	Currants, 3 to 4 ft. each way	Grapes, 8 to 10 ft. each way
Peaches, 18 to 20 ft. each way	Gooseberries, 3 to 4 ft. each way	

CORONA TREE WOUND DRESSING

This product is the outcome of several years of experimentation to obtain a tree wound dressing that really has some quality to it—in other words, a dressing that will not injure and drive back the living tissue, but will help the healing to go on in the quickest possible manner, and because it will not check, will retain its protective coating the longest possible time. Price: Quart, 75c; Gallon \$2.50.

P.-W.'s SPECIAL MAIL SIZE ORNAMENTAL SHRUB COLLECTION

Regularly we always recommend and offer larger sizes but this exception is made to suit the needs of those where service is necessary via parcel post.

Although of smaller size, every shrub furnished will be well rooted, sound and vigorous. This collection consists of one each of the following ten popular varieties:

Butterfly Bush (Buddelia)	Mock Orange (Philadelphus Cor.)
Burning Bush (Cydonia Japonica)	Honeysuckle Bush (Lonicera Tar.)
Bridal Wreath (Spiraea Van Houttei)	Snowberry
Rose Red Spirea	Tamarix
Golden Bell (Forsythia Fortunei)	Wegelia Pink

The above ten Hardy Vigorous Shrubs at the small cost of \$3.00 delivered.

ALL FOR

\$3.00
POSTPAID

ORNAMENTAL TREES AND SHRUBS

A city street is not attractive unless softened by the foliage and branches of trees. They shelter the home from excessive heat and dust, add charm to the finest buildings and hide the untidy and unsightly places. There is nothing that adorns a city more than fine shade trees. There is an untiring loveliness as they continually change with the seasons. At the first breath of spring, the swelling buds open into dainty flowers, often inconspicuous, but none the less beautiful. Then follows the delicate tints of expanding leaves that deepen into the richness of mid-summer green. The chill of autumn brings new beauty into the myriad of gorgeous hues that come almost overnight.

The above snapshot shows a glimpse of the attractive home grounds of one of our Salt Lake City customers. By the judicious use of trees and shrubs a veritable wonderland of beauty has been created. To a greater or less degree your own grounds have similar possibilities. (See page 1).

Useful Information On Shrubs, Vines and Trees

Shrubs Having Attractive Berries

Barberry	Mahonia
Coral Berry	Pyracantha
Chokeberry	Japan Quince
Elders	Snowberries
Bush Honeysuckles	Cranberry High Bush
Cotoneaster	Rhodotypos

Shrubs for Wet Places

Barberry	Hypericum
Deutzias	Privet
Dogwoods	Snowberry
Coral Berry	Spirea Oulifolia Aurea
Weigela	Mahonia Aquifolia

Trees Suitable for Street and Avenue Planting

Allanthua	Linden—American, European
Ash—Green, Blue	Mountain Ash
Box Elder	Maple—Norway, Silver,
Catalpa—Speciosa	Sugar, Sycamore,
Elm—Moline, English,	Schwedlerli.
Chinese	Oriental Plane
Horse Chestnut	Poplar—Carolina, Boileana
Locust.	Sycamore—American

Trees with Colored Foliage

Maple Schwedlerli—(Purplish foliage.)
 Prunus Pissardi—(Leaves purple).
 Poplar Boileana—Silvery underneath leaves.

Hardy Climbers for Special Situations

Climbers for Shady Places—
 Celastrus Bittersweet, Apocynum, Honeysuckle, English Ivy, Euonymus, Japanese.

Climbers, for Hot Sunny Situations and Southern Aspect—
 Bignonia Radicans, Clematis, Paniculata, Honeysuckle, Roses, Kudzu.

Shrubs for Shady Places

Elders	Weigela	Calycanthus
Dogwoods	Honeysuckle	Nannyberry
Tamarix	False Spirea	Chokeberry
Snowberry	Coral Berry	Hypericum

Shrubs for Hedges

Altheas	Japan Quince
Buddleia	Lilacs
Bush Honeysuckle	Privet
Hydrangea Grandiflora	Spirea Van Houttei
Japan Barberry	Rosa Rugosa

Flowering Trees

Allanthus	Flowering Cherries
Horse Chestnut	Linden
Flowering Crabs	Catalpa Speciosa
Flowering Plums	Lahurnum
Locust	Flowering Peach
Crahn Double Flowering	Weeping Ash
Catalpa Bungei	Mountain Ash
Cut-Leaved Birch	Mulberry—Teas Weeping
Camperdown Weeping Elm	Willow Weeping
Evergreen (See page 10).	Flowering Cherries
	Flowering Peach

Trees for Lawn or Yard

Flowering Cherries
 Linden
 Catalpa Speciosa
 Lahurnum
 Flowering Peach
 Weeping Ash
 Mountain Ash
 Mulberry—Teas Weeping
 Willow Weeping
 Flowering Cherries
 Flowering Peach

Evergreen Trees and Shrubs

Arbor Vitae	Pines	Cotoneaster
Box Woods	Spruces	Mahonia
Junipers	Euonymus	Pyracantha

Climbers for North Aspects—
 Ampelopsis Veitchii (Boston Ivy), English Ivy, Euonymus.

Climbers for Eastern or Western Aspects—
 Ampelopsis Engelmanni, Cinnamon Vine, Matrimony Vine, Climbing Roses, Clematis, Wisteria

Hardy Ornamental Vines and Creepers

Your home, outbuildings, fences and trunks of old trees can be made very attractive by the use of hardy vines. Such permanent improvements add greatly to the value of your property, and the value increases from year to year. We furnish strong two-year-old field plants at prices given below.

Ampelopsis

Engelmanii (New Virginia Creeper)—A new variety of American Ivy which has long been desired. It has shorter joints and very much smaller and thicker foliage. It also is better equipped with tendrils, by which it will climb walls of stone or brick as closely as the Boston Ivy. Will grow in almost any soil and withstand drought and heat well. Each 60c; ten for \$5.50.

Quinquefolia (Virginia Creeper; American Ivy)—A strong, rapid grower; foliage large, dark green, in autumn, bronze and crimson. Valuable for covering back porches, outbuildings, arbors, etc. Perfectly hardy everywhere, and will grow in any soil and situation. Each, 60c; ten for \$4.50.

Veitchii (Boston or Japan Ivy)—One of the finest climbers for covering walls, as it clings firmly to the smoothest surface, covering it evenly with overlapping leaves, which form a perfect mass of foliage. The color is fresh deep green in summer, changing to bright shades of crimson and yellow in autumn. Each, 75c; ten, \$6.50. Established in cans \$1.00; \$9.50 per ten.

These established plants do away with the difficulty some have experienced in getting Boston Ivy started.

Aristolochia Sipho

Dutchman's Pipe Vine—A vigorous and rapid-growing climber, bearing brownish colored flowers which resemble a pipe in shape. This plant is, however, more admired for its light green leaves, which retain their color from early spring until the fall. 75c each; \$6.50 per ten.

Bignonia Radicans

Scarlet Trumpet Vine—For covering unsightly places, stumps, rockwork or planting in crevices in ledges, the Bignonias will be found very useful. The flowers are large, attractive and showy, and borne profusely when the plant attains a fair size. 75c each; \$6.50 per ten.

Celastrus Scandens

Bittersweet, or Waxwork—One of our native climbing plants of rapid growth, succeeding in almost any situation, sun or shade, with attractive light green foliage and yellow flowers during June, followed in the autumn by bright orange fruit which usually remains on the plant throughout the winter. 75c each; \$6.50 per ten.

Euonymus

Radicans—This trailing form of Euonymus is particularly desirable for its dense deep green evergreen foliage. It is extremely hardy and useful for covering low foundation walls or may be clipped the same as boxwood for an edging plant. Each, 75c; ten for \$7.00.

Radicans vegeta (Evergreen Bittersweet)—A strong-growing variety with larger leaves than the preceding, producing bright orange-red berries which remain on the plant the greater part of the winter. As a hardy evergreen plant for wall covering, this variety is unequalled. Each, 75c; ten for \$7.00.

Large size from 5 gal. cans or B. & B., each, \$2.50; ten for \$20.00.

Hedera (Helix)

English Ivy—The well-known variety with small leaves which has proved perfectly hardy. Largely used covering walls, loose rocks, fences, or trellises. 75c each; \$6.50 per ten. Extra large plants \$1.50 each.

Boston Ivy on Rear of House. Silver Moon Climbing Rose on Front. (See page 22).

Honeysuckle

Halliana (Hall's Japan Honeysuckle)—A strong, vigorous, almost evergreen sort; white flowers changing to yellow; very fragrant; flowering from July to December; holds its leaves nearly all winter. Extra-selected plants. Each, 75c; ten for \$6.50.

Scarlet Trumpet Honeysuckle—This and its varieties are the handsomest in cultivation. It is a strong, rapid grower and produces scarlet, inodorous flowers. Each, 75c; ten, \$6.50.

Henryi—A recent introduction from China, where it has been found at an altitude of 6,000 feet; with almost ever-green foliage and distinct flowers of a peculiar bronzy-red color, produced in graceful panicles early summer. Each, 75c; ten for \$6.50.

Lycium (Chinense)

Matrimony Vine—Excellent for trellises or hanks. The small purple flowers in Summer are followed by scarlet berries which cling long through the winter. Makes a vigorous growth; if desired, it may be trained as a shrub. 50c each; \$4.50 per ten.

Polygonum Aubertii (Silver Lace Vine)

One of the most desirable flowering climbers. The plant is of strong, vigorous growth, attaining the height of 25 feet or more, and producing through the summer and fall great foamy sprays of white flowers. Strong plants. \$1.00 each; \$9.50 per ten.

P.-W.'s COLLECTION OF HARDY CLIMBERS

- 1—Engelmanii (New Virginia Creeper)
 - 1—Boston Ivy.
 - 1—Hall's Japan Honeysuckle—Blush White
 - 1—Clematis Paniculata—White.
 - 1—Silver Moon Climbing Rose—White.
 - 1—Paul's Scarlet Climbing Rose—Red.
- (Regular Price \$4.35). All for \$3.50 Postpaid

Clematis

The Clematis are exceptionally fine, strong 2-year-old plants. We have reduced the number of varieties to such sorts as, from experience, we know to succeed best in our climate. Many failures are the result of too shallow planting. The crown of the roots should be set at least 3 inches below the surface of the soil.

Paniculata (Japanese Virgin's Bower)—This handsome hardy climber is of strong, rapid growth, with small, dense, cheerful green foliage. The flowers appear in the greatest profusion during August, and continue until late in the fall, are white in color and most deliciously fragrant. Each, 75c; ten \$6.50.

Jackmanii—The best known and most valued variety of this popular family. A perfect mass of bloom when in full flower. Color, dark, rich, royal purple. Each \$1; ten, \$8.50

Madam Baron Villa—Splendid violet red, well-formed flowers, fine variety. Each, \$1.00; ten for \$8.50.

Wistaria

Sinensis (Purple)—A most beautiful climber of rapid growth. When well established it makes a growth of 15 to 20 feet in a season. Flowers violet blue. \$1.00 each; \$8.50 per ten.

Sinensis, White—A white-flowering form of the above. \$1.00 each; \$8.50 per ten.

Multijuga Florepiena—Long racemes of double purple flowers; very beautiful. Each, \$2.00.

Clematis Jackmanii

Clematis paniculata

EVERGREEN SHRUBS AND TREES

Both Public and Home gardens should have some of these beautiful specimens to give that bit of color needed to set off the rest of the planting.

All Evergreen Trees will be carefully dug with ball of earth about the roots and tightly sewed up burlap and will stand transportation with little risk of loss. In planting it is not necessary to remove the burlap. Place tree in properly prepared hole, cut burlap in several places, firm earth tightly about ball of roots water and mulch.

All Evergreens are quoted f.o.b. Salt Lake City. We advise Freight or Express. Most sizes are too large and heavy for Parcel Post shipment.

Juniper (Juniperus)

Irish—Erect, slender and formal in habit; foliage sage green, very compact, making a splendid column, sometimes 15 to 20 feet high; much used in cemeteries. 18-24 in., \$2.25; 2-3 ft., \$3.50; 3-4 ft., \$5.00 each.

Red Cedar (J. Virginiana)—This is the well known native tree so much appreciated where the softness in appearance is required in the landscape effect. 1½ to 2 ft., \$2.50; 2-3 ft., \$4.00; 3-4 ft., \$6.00; 4-5 ft., \$8.00.

Silver Blue Cedar (J. Virginia Glauca)—The entire young growths of this beautiful variety, are silvery-white which changes as they develop to an attractive bluish green. 2-3 ft., \$5.00; 3-4 ft., \$7.50; 4-5 ft., \$10.00.

Pfitzer Juniper (J. Chinensis Pfitzeriana)—One of the handsomest of the semi-dwarf creeping junipers. Of hillowy form and elegant appearance. 1½-2 ft. spread, \$3.00; 2-3 ft. spread, \$4.00; 3-4 ft., \$6.00.

Spiny Greek Juniper (J. Excelsa Stricta)—This beautiful variety forms a tall, dense, narrow, conical head a fine glaucous color. The growth is slow so that the tree is well adapted for foundation plantings, rock gardens, or other situations where small or dwarf trees are required. 18-24 in., \$4.00; 2-3 ft., \$6.00 each.

Sabina Tamariscifolia (Tamarix Savin Juniper)—An excellent creeping dwarf variety. The foliage is fine in texture. Average height is one foot, with a spread of 6 to 8 feet when full grown, forming a compact and perfect mat of bluish or gray-green. Grows very dense and never changes in color. Price, 18-24 in., \$4.00 ea.; 2-3 ft., \$5.00 ea.

Pine (Pinus)

Austrian Pine—The leaves are two in a sheath, straight and slender, from 4 to 5 inches long, of a deep, rich green color. No tree shows such remarkable resistance to the trying conditions of city planting. Coal gas and smoky atmosphere have no effect on its growth. 2-3 ft., \$500 each.

Mugho (Dwarf Pine) — Leaves short, stiff and formal, thickly distributed in tufts over the branches in a crowded way somewhat similar to Austrian, with an equal depth and richness of color; globular form. 12-15 in., \$4.00; 15-18 in., \$6.00.

Aside from the varieties and sizes listed in this catalog, we carry many other Evergreens. Write, or where possible, please call at our City Sales Yard or Centerville Nurseries and make your selections.

(See Group)

No. 1—Virginiana Juniper.

No. 2 — Pfitzer Juniper.

No. 3 — Oriental Arbor Vitae.

No. 4—Silver Blue Juniper.

No. 5 — Colorado Spruce.

Thuya—Arbor-Vitae

Thuya Globosa (Globe Arbor-Vitae)—Forms a dense, low globe; handsome shade of green. Diameter 12-18 in., \$3.00; 18-24 in., \$5.00.

Thuya Pyramidalis Occidentalis (Pyramidal Arbor-Vitae)—Most compact and erect of the entire species, in form almost a counterpart of the Irish Juniper. Foliage a deep green, retaining color. 18-24 in., \$2.50; 2-3 ft., \$4.00; 3-4 ft., \$7.00; 4-5 ft., \$10.00; 5-6 ft., \$12.50; 6-8 ft., \$17.00.

Thuya (Berckmans Golden)
Orientalis Aurea Nana

Thuya Beverleyensis (Golden Tinged Column Arborvitae)—15 to 20 in. The tallest and stateliest of Chinese Arborvitae, growing into a narrow pyramidal column of golden green foliage especially adapted for pairing on either side of entrances. Should have plenty of sunshine to bring out the rich golden color. 18-24 in., \$2.50 each; 2-3 ft., \$4.00 each; 3-4 ft., \$6.00 each; 5-6 ft., \$8.00 each; 7-8 ft., \$11.00 each; 8-9 ft. \$15.00 each.

Thuya Orientalis Aurea Nana (Berekinan's Dwarf Evergolden Arbor Vitae)—The most wanted arborvitae. Very dwarf golden tipped oval shape. Always shapely and beautiful. 10-12 in., \$2.00; 13-15 in., \$3.00; 16-18 in., \$4.00; 18-24 in., \$5.00; 24-30 in., \$7.00; 30-36 in., \$8.00.

Thuya Orientalis Pyramidalis (Chinese Arbor-Vitae)—Comparatively low, broadly pyramidal tree. Color yellowish-green, dulling to bronze green in winter. 18-24 in., \$2.50; 2-3 ft., \$4.00; 3-4 ft., \$5.00; 4-5 ft., \$7.50; 5-6 ft., \$10.00.

Thuya Beverleyensis

Spruce

Colorado Blue Spruce (*Picea pungens* Glauca)—It is the rarest blue of any evergreen; very distinct in foliage and growth; fine compact habit. 12 in. to 18 in., \$5.00 each; 1½-2 ft., \$6.00 each; 2-3 ft., \$9.00; 3-4 ft., \$12.50 each.

Colorado Spruce (*Picea pungens*)—Similar to above except foliage is light green color. 1-2 ft., \$3.00; 2-3 ft., \$4.50; 3-4 ft., \$6.50.

White Fir (*Abies concolor*)—It forms a compact, symmetrical tree, somewhat resembling the Blue Spruce. Both the upper and under sides of the needles are grayish-blue contrast to the usual characteristics of firs. 2-3 ft., \$5.00 each.

EVERGREENS BROAD LEAF

Abelia

Abelia Grandiflora—6 in. One of the prettiest shrubs with arching stems clothed in dark, glossy evergreen leaves. Small, fragrant flowers, tube shape, shaded light rose on the outside and white inside are borne nearly every month in the year. Gal. cans, 2-3, \$1.50 each; 3-4, \$2.50 each.

Barberry (Wilson)

Berberis Wilsonae (Wilson Barberry)—4 in. A beautiful hardy shrub with gray-green foliage turning a brilliant reddish-bronze in the Fall. Flowers golden-yellow in dense clusters; salmon-red berries in the Fall. 12-18 in., \$2.00 each; 18-24 in., \$2.50 each; 24-30 in., \$3.00.

Cotoneaster

Simonsi—White. June. Semi-evergreen quite erect. Leaves are dark green and usually adhere late in the season. Showy bright red fruit borne on the slender, erect branches all along the stems. H 6-7, S 5-6. Each \$1.50.

Pannosa (Silverleaf Cotoneaster)—(H 8, S 6). Foliage a soft gray-green with silvery color on the underside of the leaves. White flowers in Spring followed by masses of dull silvery-red berries which remain Fall and Winter. Fast growing and of loose graceful habit. 2-3 ft., \$1.25 each; 3-4 ft., \$2.00 each.

VISITORS AT OUR NURSERY—ALWAYS WELCOME

Visit our Centerville Nursery and you will see thousands of both Conifer and Broadleaved types of Evergreen Shrubs and Trees, all sizes and stages of development from the very small rooted cuttings to the large specimen sizes.

The accompanying cut shows three Broadleaved varieties just as they have been dug and balled ready for delivery. No. 1 *Cotoneaster pannosa*, No. 2 *Berberis Wilsonae*, No. 3 *Mahonia Aquifolia*. These plants having been already several times transplanted, the entire root system is intact and, therefore, sure to grow.

We always have a large stock of entrance plants such as Boxwoods, *Dracaena* and *Phoenix* Palms and many others. Write us if what you want is missing from this list.

Cotoneaster

Horizontalis—Low, flat, spreading, bright glossy green, very attractive. Covered in April with masses of tiny pink flowers and in the fall with minute, brilliant scarlet berries. The foliage also turns scarlet and it is practically deciduous in winter. 18-24 in., \$2.00; 2-3 ft., \$3.50.

Euonymus

Japanese (*E. japonicus*)—Fine, upright shrub of moderate size and rather compact growth. Foliage and bark are clear dark green.

Golden Variegated Euonymus (*E. japonicus aurea variegatus*)—Branches green, leaves yellow in center, dark green around edges. Color about equally divided. Occasional leaves either all yellow or green.

Prices: Any of the above varieties, balled, 12 to 15 in., \$1.50; 15 to 18 in., \$2.25; 2 to 3 ft., \$3.50; 3 to 4 ft., \$4.00.

Pyracantha Lalandi

Laurel English

Laurus Cerasus (English Laurel)—5 to 8 in. A heavy, dense, slow growing plant which makes the finest specimen shrub possible with large, thick, glossy green leaves in rounded shape. Occasional trimming improves it. 2-3 ft., \$3.00 each; 3-4 ft., \$5.00 each.

Lonicera

Lonicera nitida—H. 3 to 5 ft. A compact shrub with many very small leaves of graceful drooping habit. Likes the sun, and should be pruned often. 8-12 in., \$1.25; 18-24 in., \$3.50 each.

Mahonia

Aquifolia (Oregon Grape or Holly-leaved Ashberry)—A beautiful evergreen shrub with smooth, shining holly leaves; bright yellow flower clusters in May, and blue berries. The leaf color varies capriciously throughout the year, assuming all shades of green, with flecks of red and bronze. Associates well with dwarf and medium shrubbery, of special value in shady locations. 15-18 in., \$2.00 each; 18-24 in., \$2.50 each; 2-3 ft., \$3.50 each.

Nandina

Nandina domestica (Japanese Nandina)—5 ft. A beautiful, upright growing dwarfish shrub. Leaves compound, with numerous small leaflets, rich red when young, dark green at maturity, and assuming beautiful coppery tones in winter. It thrives in any soil, and is quite hardy. In the autumn it is covered with showy clusters of red berries. 18-24 in., \$2.50 each; 2-3 ft., \$3.50 each.

Pyracantha (Firethorn)

Burning Bush. *P. coccinea* (Lalandi)—Deservedly popular on account of its clean, upright growth, bearing to great profusion of small flowers in flat corymbs, followed by a mass of orange-red berries in early fall which remain on the plant until spring, firm green foliage. Attains height of 10 feet, but can be trimmed to any lower height desired. 18-24 in., \$2.50 each; 2-3 ft., \$3.50 each; 3-4 ft., \$4.50 each.

ORNAMENTAL TREES

Prices are for different sized trees, all f. o. b. our Nurseries or Salt Lake City, and in all cases good value will be given, according to price charged. Ten per cent discount on orders of five trees or more of one variety and size. Special prices made on lots of 100 up.

Allanthus (Tree of Heaven)

Glandulosa—A rapid growing, lofty tree, long, elegant foliage. Exempt from disease and insects. Useful tropical effects, withstands dust and smoke better than most any other tree. 6-8 feet, \$1.50 each; 8-10 feet, \$2.00 each.

Ash

American White (*Fraxinus Americana*)—A rapid growing native tree of fine symmetrical outline. A valuable street or park tree. Timber is largely used. Price 4-6 feet, 50c each; 6-8 ft., \$1.00 each; 8-10 ft., \$1.75 each.

Blue Ash (*Fraxinus Quadrangulata*)—Very shapely symmetrical tree for Park or Avenue. Bark smooth of deep blueish green, leaves larger than other varieties of Ash, deep green changing in autumn to reddish purple. 6-8 ft., \$2.50; 8-10 ft., \$3.50.

Green Ash (*Fraxinus Lanceolata*)—Shapely round top with dark green foliage. Price: 4-6 ft., \$1.00 each; 6-8 ft., \$1.50 each; 8-10 ft., \$2.00 each.

European Mountain Ash (*Sorbus Aucuparia*) (Rowan Tree)—Handsome small tree of erect growth. Leaves pinnate, leaflets serrate. Flowers white, in flat clusters, four or five inches broad, followed by rather large, red berries. Very handsome at any season. 6-8 ft., \$2.00 each; 8-10 ft., \$2.50 each; 10-12 ft., \$3.00 each.

Oak Leaf Mountain Ash (*Sorbus Quercifolia*)—Similar to "European" except the leaves are shaped like the oak. 4-6 ft., \$2.00 each; 6-8 ft., \$2.50 each.

Box Elder

Ash-Leaved Maple (*Acer Negundo*)—A fine, rapid-growing avenue tree, withstands both cold and drought, thrives where other trees fail. 4-6 ft., 75c each; 6-8 ft., \$1.00 each; 8-10 ft., \$1.50 each; 10-12 ft., \$2.00 each.

Birch (Betula)

Cut-Leaved Weeping Birch (*Betula alba pendula laciniata*)—Very beautiful form of European White Birch. The main trunk, with snow-white bark, grows straight as an arrow. Branches spread but slightly, while the fine slender shoots hang vertically. The foliage is fine and deeply cut. Many consider this the most beautiful deciduous tree in cultivation. 6 of 7 ft., \$2.75 each; 7-8 ft., \$3.25; 8-10 ft., \$3.75; 10-12 ft., \$4.50 each.

European White Birch (*Betula Alba*)—Of which Colclidge says "Most beautiful of forest trees, the lady of the woods." Tall, upright, distinctive white bark. 6-8 feet, \$2.00 each; 8-10 ft., \$2.50 each.

Catalpa

Bungei (Umbrella Tree)—These beautiful globe-shaped tops being grafted high on clean straight stems form one of the most valuable trees for landscape designing, especially for formal effects. One year head, \$2.00; two year old heads, \$2.50.

Speciosa (Western Catalpa)—Rapid grower producing large panicles of fragrant flowers, delicately marked with violet and yellow. 6-8 ft., \$1.25 each; 8-10 ft., \$1.75 each; 10-12 ft., \$2.50 each.

Crab

Bechtels Double Flowering—Most beautiful of all the flowering Crabs; hardy, of medium size, covered in early spring with large, beautiful double, fragrant flowers, resembling small roses of a delicate pink. Ideal for a small yard. 2-3 ft., \$1.25; 3-4 ft., \$1.50; 4-6 ft., \$2.00 each.

European Mt. Ash—Green Ash

Cut—Leaved Weeping Birch

New Chinese or Siberian Elm

(Note the sturdiness of the above Chinese Elm, only the third year from a small transplant).

Flowering Cherries

Double Cherry (*Prunus Florepleno*)—A charming small tree with branches completely covered with a mass of large double flowers in May (both Pink and White). 3 to 4 feet \$2.00; 4-5 ft., \$2.75 each.

Japanese Weeping Flowering Cherry

—Famous flowering cherries of Japan. Beautiful specimens, blooming in profuse panicles, 5 ft. Standards \$4.50 ea.

Cornus

(Dogwood)

White Flowering Dogwood (*Cornus Florida*)—Flowers white, 3 to 3½ inches in diameter, produced in spring before leaves appear; very abundant, showy and durable. Foliage grayish green, glossy and handsome; in the autumn turning to deep red. Spreading, irregular form, growing 20 to 25 feet high. 3-4 ft., \$2.00 each.

Elm (Ulmus)

American Elm (*Ulmus Americana*)—Tall and stately with a graceful, wide-spreading form vase-like, densely covered with a rich, bright green foliage. 4-6 ft., \$1.25 each; 6-8 ft., \$1.50 each; 8-10 ft., \$2.00; 10-12 ft., each, \$3.00.

English Elm (*Ulmus Campestris*)—A native of Europe; a noble rapid-growing tree, forming a dense head; a desirable tree for streets, avenues, etc. 6-8 ft., \$2.00 each; 8-10 ft., \$2.75 each.

Moline Elm—This is a new attractive type which is propagated entirely by budding in order that the beauty of the original form may be retained. The young tree is, in shape, somewhat like a Lombardy Poplar, with leaves often 6 inches across. The older trees become more spreading with more nearly horizontal branches. 6-8 ft., \$2.25 each; 8-10 ft., \$3.00 each.

New Chinese or Siberian Elm (*Ulmus Pumila*)—This new introduction is a clean fast grower, free from disease and pests. Thoroughly hardy and vigorous under most trying soil and climatic conditions. Its resistance to drought, alkali and extreme temperature makes it very valuable for our Western conditions. 3-4 ft., \$1.25 each; 4-6 ft., \$1.50; 6-8 ft., \$2.00; 8-10 ft., \$2.50; 10-12 ft., \$3.00.

Camperdown Elm (*U. scabra pendula*)—Always top grafted. Limbs grow outward and downward, giving the tree a remarkably picturesque aspect. 2 year Heads, \$4.50 each.

Hawthorne

(Flowering Thorns)

English Double Flowering White (*Crataegus Oxyacantha fl. pl.*)—The double white form of the fragrant English Hawthorne; flowers in May and June. Color changes to pink before blossoms fall. 6-8 ft., \$2.50 each.

Paul's Double Scarlet (*Crataegus Monogyna Pauli*)—Flowers deep crimson scarlet; very double, followed by large red berries borne freely. This is one of the most attractive small trees for solitary specimens or groups, as showy in fruit as when in bloom. 8-10 ft., \$3.50; 6-8 ft., \$2.50; 4-6 ft., \$2.00.

Golden Chain

(*Laburnum Vulgaris*)

A rather small quick-growing tree with soft, deep green clover-shaped leaves retaining their color until late in fall. Flowers fragrant, bright yellow, in long, drooping racemes, suggestive of yellow Wistaria borne on a tree. 4 to 6 ft., \$1.50; 6-8 ft., \$2.00.

Horse Chestnut

White Flowering (*Aesculus hippocastanum*)—The handsome European species; has magnificent spikes of white flowers borne in great profusion and sweetly scented. 5-6 ft., \$2.75 each; 6-8 ft., \$3.75 each; 8-10 ft., \$5.00 each.

Linden

American (*Tilia Americana*)—A stately tree, growing 60 to 80 feet tall, forming a fine, broad round head with large, shining cordate leaves. Valuable for its beautiful white wood. Its flowers appear in yellow drooping clusters intensely fragrant. 6-8 ft., \$2.75 each; 8-10 ft., \$3.50.

European (*Lime Tree*)—Pyramidal shape, foliage similar to American Linden, white flowers in June. 6-8 ft., \$3.50; 8-10 ft., \$4.50 each.

Locust

Common or Black Locust (*Robinia pseudacacia*) A native American tree of extremely rapid growth, valuable for timber as well as quite ornamental. The flowers are in long, pendulous racemes, white and very fragrant, appearing in June. 4-6 ft., 50c each; 6-8 ft., 60c each; 8-10 ft., \$1.00 each; 10-12 ft., \$2.00; 12-14 ft., \$2.50.

Pink-Flowering Locust (*Robinia pseudacacia decussata*)—Remarkable for its vigorous growth and fine, pink-colored flowers, which it produces in great abundance. Entirely distinct from Rose Acacia. 6-8 ft., \$2.50 each; 8-10 ft., \$3.50.

Honey Locust (*Gleditsia triacanthos*)—A large, vigorous tree, with wide-spreading branches, feathery, fern-like leaves. Makes a fine hedge. 4-6 ft., 75c each; 6-8 ft., \$1.00 each; 8-10 ft., \$1.50 each.

Globe Locust—Unusually attractive; form round headed tree—without trimming. 1-year head, \$2.50; 2-year heads, \$3.50.

Rose Acacia—Beautiful pink pea like flowers in long racemes in June. A very charming small tree. 4-5 ft., standards, 2-year head, \$4.50; 1-year heads, \$3.50.

Maples (Acer)

Silver (*Dasycarpum*)—A large tree with wide-spreading branches and drooping branchlets. Very fast grower, makes dense shade and thrives in any soil. 6-8 ft., \$1.00 each; 8-10 ft., \$1.50 each; 10-12 ft., \$2.50 each.

Norway (*A. Platanoides*)—A large handsome tree, of spreading rounded form, with shiny, deep green foliage. Usually very symmetrical. One of the most desirable species for the street, park or lawn. 6-8 ft., \$2.00; 8-10 ft., \$2.50; 10-12 ft., \$3.50 each.

Schwedleri—A red and purple, contrasts brightly with the delicate green of other trees. In mid-summer they are purplish green, in autumn golden yellow. 6-8 ft., each, \$3.00; 8-10 ft., \$4.00 each.

Sugar—Straight, spreading, symmetrical. Rich autumn tints of clear yellow and scarlet. 6-8 ft., \$2.50 each; 8-10 ft., \$3.25 each.

Sycamore (*A. Pseudo platanus*)—Rapid, upright growth; smooth, ash-gray bark; leaves large, five-lobed, deep green above and glaucous beneath. 6-8 ft., \$2.25 each; 8-10 ft., \$2.75 each; 10-12 ft., \$3.25 each.

Mulberry

Mulberry, Russian (*Morus tatarica*)—Rapid growth; round headed profuse foliage; used to attract birds. 6-8 ft., \$1.25 each; 8-10 ft., \$2.25 each.

Mulberry Tea Weeping (*Morus alba pendula*)—The long, slender, drooping branches of this tree give it a very unusual and much admired appearance. Prized for lawn planting. 2-year heads, \$3.50.

Globe Locust

Oriental Plane

Olive

Russian (*Elaeagnus angustifolia*)—Its foliage is of a remarkable silvery hue, showing up in striking contrast to that of the green of other shrubs or trees. It is admirable for tall backgrounds where unusual color tones are desired. It also is useful for hedges, either trimmed or untrimmed. 5-6 ft., \$1.00 each; 6-8 ft., \$1.50 each.

Peach (Double Flowering)

(*Amygdalus Persica*)—Of all the spring-flowering trees the Double Flowered Peaches are the most brilliant and beautiful. The entire tree and every branch is simply a mass of blossoms, appearing before the leaves, making an immense bouquet of gorgeous color. Fast growing and very hardy, they should be more planted, but placed in the background as the tree is not especially desirable when the flowers fall, to make plenty of new growth for next season's bloom. Double White Double Pink, Double Red. 3-4 ft., \$1.00; 4-6 ft., \$1.50.

Walnut

Black (*Juglans Nigra*)—The trees become very large, shapely and make excellent lawn trees. They are of relatively quick growth. As nut producers, they are very prolific. 4-6 ft., \$1.50; 6-8 ft., \$2.00 each; 8-10 ft., \$2.50.

Plane Oriental

European Sycamore; Oriental Plane (*P. orientalis*)—This splendid tree is almost perfection for street and avenue use. Without training, it forms a fine, spreading, well-rounded head. Almost entirely free from disease or pests. Leaves are large, dark green and deeply lobed. Bark flakes off from trunk and older limbs. Everything considered, we believe this is one of the very best street trees. 12-14 ft., \$4.50; 10-12 ft., \$3.50; 8-10 ft., \$2.50 each; 6-8 ft., \$2.00 each.

Poplar (Populus)

Bolleana (*P. Boleana*)—A tall columnar rapid growth, hardy tree. Leaves triangular the borders serrate, glossy green above and silvery beneath. 4-6 ft., 50c each; 6-8 ft., 75c each; 8-10 ft., \$1.00 each; 10-12 ft., \$1.50 each.

Carolina (*P. deltoides Carolinensis*)—Of rapid growth. Very desirable when quick shade is wanted. 4, 16 ft., 35c each; 10-12 ft., \$1.00 each; 12-14 ft., \$1.50 each.

Lombardy (*P. nigra italica*)—Widely known and esteemed for its decided individuality. Grows to a great height; narrow and columnar. Forms a strong contrast with most other trees, hence of great value in landscape work 10-12 ft., \$1.75 each; 8-10 ft., \$1.25 each; 6-8 ft., 90c; 4-6 ft., 75c each.

Flowering Plum

Purple-Leaved (*Prunus Plissardi*)—Handsome form, with rich purple leaves. Covered in early spring with beautiful white flowers, later with wine-red fruits. 3-4 ft., \$1.25; 4-5 ft., \$1.75.

Triloba (*Double Flowered Plum*)—A charming shrub of vigorous growth. Very early in spring, before its leaves appear the whole tree is decked in a fleecy cloud of very double light pink blossoms. Its effect on a still leafless landscape is very bright. 3 to 4 ft., \$1.25 each; 4 to 5 ft., \$1.75 each.

Redbud

American Judas (*Cercis Canadensis*)—Striking ornamental trees loaded with a mass of pea-shaped pink blossoms in early spring, before the leaves appear. 3-4 ft., \$1.75; 4-5 ft., \$2.00 each.

Sycamore

See **Plane Oriental**—Do not stock American (*Platanus Occidentalis*).

Tulip Tree

Liriodendron (*tulipifera*)—Tall, pyramidal habit; bluish green, glossy, fiddle-shaped leaves; flowers tulip-like, greenish yellow. 3-4 ft., \$1.50; 4-6 ft., \$2.00 each; 6-8 ft., \$2.50.

Willow

American Black (*Salix nigra*)—Hardy under most trying situations, thrives best where soils are moist and water plentiful. 6-8 ft., 65c; 8-10 ft., 85c; 10-12 ft., \$1.25 each.

Golden (*Salix vitellina aurea*)—Its brilliant colored twigs makes this variety very valuable in landscape. Good for windbreaks. 6-8 ft., 75c; 8-10 ft., \$1.00; 10-12 ft., \$1.50 each.

Pussy Willow (*Salix discolor*)—A large shrub or small tree, very popular for all ornamental purposes because of the attractive catkins formed on the branches in early spring. 4-6 ft., 75c; 6-8 ft., \$1.25 each; 8-10 ft., \$1.75.

Babylonian Weeping Willow (*Salix babilylonica*)—A tree of stately appearance with long, pendent branches swaying their silvery foliage in every breeze; quick to take hold when transplanted; will give a finish to a lawn not obtained in any other tree. This, too, makes a good screen, and whether planted on moist or dry grounds, thrives with unusual vigor. 8 to 10 ft., \$1.75; 6 to 8 ft., \$1.25.

Althea (Hib Syriacus)

Golden Bells (Forsythia Fortunei)

Hydrangea (Paniculata Grandiflora)

HARDY ORNAMENTAL AND FLOWERING SHRUBS

Except where otherwise specified, the stock offered here is hardy, acclimated Utah Grown—two, three and in some instances four years old, well branched with strong, vigorous roots and should not be considered in price competition with inferior grades.

For your convenience we have indicated in each description the height, spread and blooming period. For example, ("H 3-4, S 3-4,") may be interpreted "height, 3 to 4 feet, spread, 3 to 4 feet. It is understood that the sizes given are only approximate, and will vary considerably according to soils and climate.

Shrubs marked (*) can be grown in partial shade, but they will also thrive in full exposure to the sun.

*Acanthopanax

Pentaphyllum (5 leaf Aralia)—Long, slender, gracefully arching branches and bright green, compound foliage, especially attractive. Greenish-white flowers in long umbels. H 6-9, S 5-6). 2-3 ft., 85c; 3-4 ft., \$1.00.

Flowering Almond

A most beautiful shrub, is one of the loveliest. The flowers are borne on its slender branches during May and are very fragrant. H 3-5, S 4. Double pink and a Double white. 2-3 ft., \$1.00 each; 3-4 ft., \$1.25.

*Althea (Rose of Sharon)

The Altheas are among the most valuable of our tall, hardy shrubs on account of their late season of blooming, which is from August to October, a period when few shrubs are in flower. They are extensively used as hedge plants, for which they are admirably adapted. We offer in four distinct colors. Red, Pink, White, and Purple. (H. 10-12, S 6-8) 2-3 ft., 75c; 3-4 ft., \$1.00.

Amorpha

False Indigo (A. Fruticosa)—Grows in large spreading bush form, with bright green leaves in pinnate arrangement; flowers deep violet blue, in June. (H 8-10; S 8-10). 3-4 ft., 75c; 4-6 ft. \$1.00.

Aralia

Spinosa (Devil's Walking Stick)—Sometimes called "Hercules Club." Useful in landscape for tropical effects and shadows. Blooms July. August, large panicles white flowers followed by black berries, develops a tree-like form, branches very spiny. (H 15-18, S 7-8). 2-3 ft., 85c; 3-4 ft., \$1.00 each.

*Berberis (Barberry)

Japanese Barberry (B. Thunbergii)—Beautiful shrub for hedges, border, screens or general purposes. Very compact and needs no attention with the shears. Foliage a rich green, changing in the autumn to brilliant scarlet and gold. Following the white flowers are scarlet oval berries which are borne into the winter. H 3-4, S 3-4). 15-18 in. shrubs 40c each; ten for \$3.50; 18-24 50c ea.; ten \$4.50. Three-year specimen shrubs, 75c each.

Flowering Almond

New Red Leaved Barberry

(B. Thunbergii Atropurpurea)—In habit of growth and in fruiting it is identical with the popular Japanese Barberry, but its foliage develops a rich bronzy-red color, this coloring becomes more intense and richer during the hot summer months followed by brilliant scarlet berries which remain on the plant the entire winter. (H 3-4, S 3-4). 12-18 in., 75c; 18-24 in., \$1.00 each.

Buddleia (Butterfly Bush)

(B. David Magnifica)—Desirable summer flowering shrubs, beginning to bloom in July, it continues until cut by severe frost. The flowers are lavender, lilac shade, borne in dense cylindrical spikes from 12 to 15 inches in length by 3 inches in diameter; flowers freely the first season. (H 5-6, S 4-5). 1-year plants 50c; 2-year plants, 75c.

B. Veltcheana—Similar to above, except flowers are deep mauve purple. 1-year plants, 75c; 2-year, \$1.00 each.

Caragana

Siberian Pea Tree (C. Siberica)—Compound leaves bright green; numerous small clusters of yellow flowers. (H 8-10, S 8). May and June. 2-3 ft., 50c each; 3-4 ft., 75c; 4-6 ft. \$1.00.

Calycanthus

(Sweet Shrub) (C. floridus)—An old-fashioned shrub known to everyone. Its flowers are deep reddish-brown, sweet-scented; deep green, glossy foliage, free from disease. (H 5-6, S 4-5). 2-3 ft., 85c.

Caryopteris (Blue Spirea)

Incana—Sometimes called Bluebeard. From early September until frost is a mass of lavender-blue flowers. Not hardy in exposed situations. Plant in protected places. Splendid for massing. (H 2-3, S 2-3). Plants 12-15 in., 90c; 15-18 in., \$1.25 each.

Clethra (Summer Sweet)

Alnifolia (White Alder, or Sweet Pepper Bush)—One of the best of our dwarf shrubs bearing spikes of pure white, deliciously fragrant flowers from July to September. (H 4-6, S 4). 18-24 in., \$1.00 each.

Corylus (Hazel Nut)

Americana—Well known native American nut-bearing shrub that makes an attractive addition to natural planting. (H 8-9, S 8). 2-3 ft., \$1.00
Avellana atropurpurea (Purple-leaved Hazel Nut)—Similar in growth and habit to above. Very valuable in landscape work on account of its attractive purple foliage. (H 8-9, S 8). 18-24 in., \$2.75 each.

Buddleia Veltcheana

For quantity price schedule turn to page 16.

***Chokeberry (Aronia)**

Arbutifolia—A very useful shrub with attractive pale green, foliage coloring to vivid red in the Fall. White flowers in May are followed by masses of red berries. (H 7-9, S 6-8). 2-3 ft., 85c; 3-4 ft., \$1.00.

Melanocarpa (Black Chokeberry)—Same habit as above except grows taller and has black berries, leaves are smoother underneath. (H 8-10, S 8-10). 2-3 ft., 85c; 3-4 ft., \$1.00 each.

***Cornus (Dogwood)**

Red Siberian (C. Sibirica)—Produces cream colored flowers in June light blue fruits, and bright red twigs and branches. (H 6-8, S 6). 2-3 ft., 50c; 3-4 ft., 75c.

Golden Twig (C. Stolonifera, Lutea)—Yellow stemmed. Clusters of white flowers, stems and branches are yellow. (H 7-8, S 7). 2-3 ft., 50c; 3-4 ft., 75c.

Variegated Dogwood (Cornus Elegantiissima)—Silver and green foliage, red bark, sometimes known as Silver Blotch Dogwood. (H 5-6, S 4-5). 2-3 ft., \$1.25; 3-4 ft., \$1.50 each.

Silky Dogwood (Amomum)—Young twigs are purple, flowers white, followed by pale blue berries, prefers moist soils. (H 8-9, S 7-8). 2-3 ft., 85c; 3-4 ft., \$1.00 each.

Cotoneaster

Acutifolia—Showy, stately shrub, with lustrous green foliage, white flowers in June, followed by black berries. (H 6-7, S 5-6). 2-3 ft., \$1.00; 3-4 ft., \$1.25 each.

Cydonia

Japan Quince (Japonica)—A single shrub on the lawn is very attractive; brilliant crimson flowers, among the first in the spring (H 4-5, S 5). 2-3 ft., 75c; 3-4 ft., 85c.

Currant (Ribes)

Aureum (Missouri Golden Currant)—Grows to a height of from 4 to 7 feet. Flowers fragrant and useful for cut-flowers. Cultivation for its many pretty, spicy, sweet-scented, bright yellow flowers in May, and its clean attractive foliage and bright autumnal tints. (H 4-5, S 5). 2-3 ft., 75c; 3-4 ft., 85c.

Deutzia

Among the most beautiful and most popular of flowering shrubs. Flower in June and through July and August.

Crenata (Rosea Plena)—Double light pink; very desirable tall shrub. (H 6-8, S 6). 2-3 ft., 85c; 3-4 ft., \$1.00.

Gracilis—A favorite dwarf bush, covered with spikes of pure white flowers. (H 2-3, S 3). 18-24 in., 75c; 2-3 ft., \$1.00.

Fringe or "Smoke Tree"

Pride of Rochester—Fine, tall growing double white flowering variety. (H 6-8, S 5). 2-3 ft., 75c; 3-4 ft., \$1.00.

Exochorda

Pearl Bush—Vigorous grower; dazzling white flowers in numerous terminal racemes. A narrow upright shrub which prefers a moist, fertile soil. (H 6-8, S 4). May.

Euonymus

Americana (Strawberry Tree)—American Burning Bush. Very showy in autumn when loaded with scarlet seed pods, from which orange-colored berries hang on slender threads. (H 7-8, S 6-7). 18-24 in., 85c; 2-3 ft., \$1.25 each.

Atropurpurea—Vigorous Shrub of small tree, producing an abundance of scarlet berries. Attractive purple foliage. (H 12-15, S 10). 2-3 ft., \$1.50 each.

Alatus (Winged Euonymus)—In Autumn the oval, bright green leaves of this shrub fade to gorgeous tones of red and crimson. Throughout the year its branches are covered with corky wings or projections from the bark. Splendid for specimen planting. (H 6-8, S 6). 18-24 in., \$1.25; 2-3 ft., \$1.50.

Elaeagnus Longipes

Japanese Oleaster—Nearly evergreen shrub of medium height, with light foliage, which is silvered on the under surface, yellow fragrant flowers in May followed with orange-colored fruit is a very attractive feature during the summer. (H 6-8, S 6). 2-3 ft., \$1.25.

Kerria Japonica

Forsythia (Golden Bell)

Fortunei—Strong, erect habit; bright golden-yellow flowers in early spring. (H 7-8, S 6). 2-3 ft., 60c; 3-4 ft., 75c.

Suspensa (Weeping Golden Bell)—Tall willowy growth, branches gracefully arching, covered with golden-yellow bells. (H 4-6, S 7). 2-3 ft., 75c; 3-4 ft., 85c.

Fringe Tree

Purple (Smoke Tree). **Rhus Cotinus**—A conspicuous spreading shrub or small tree with large clusterly round leaves; overhung in midsummer by mist-like clouds of tiny flowers. These billowing panicles are a light lavender when fresh, very persistent, and give the impression of smoke at a distance. (H 8-10, S 8). 18-24 in., \$1.25; 2-3 ft., \$1.50.

White. **Chionanthus Virginica**—A very showy shrub, growing to large size; with large leathery shiny leaves, and lace-like white flowers borne in gracefully drooping panicles. (H 8-10, S 8). 2-3 ft., \$1.25.

Honeysuckle Bush (Lonicera)
Tartarian (Lonicera Tatarica)—Most popular of the bush varieties. Foliage dark glossy green, blooms in June. (H 8-10, S 6-8). Red, Pink,

Kolwitzia Amabilis. (See page 14)

White. 2-3 ft., 75c; 3-4 ft., 85c; 4-5 ft., \$1.00.

Fragrantissima, **Winter Honeysuckle**—Small, deliciously fragrant, white flowers tinged with yellow in the early Spring before the leaves appear. Holds its green foliage until midwinter. (H 6, S 4-5). April. 2-3 ft., 75c.

Morrowi—A handsome Japanese variety with white flowers during May, but especially valuable for its bright and red fruit during the summer and autumn months. (H 6-8, S 5-6). 2-3 ft., 75c.

Spinosa Alberti—Dwarf growing type with bluish green leaves and fragrant rose pink flowers in May and June. (H 2, S 2-3). 12-15 in., \$1.00 each; 15-18 in., \$1.50 each.

Standishi—Half evergreen shrub with spreading branches, fragrant bluish white flowers in April, followed by scarlet berries. (H 6, S 7). 18-24 in., \$1.50 each; 2-3 ft., \$2.00 each.

Thibetici—A valuable new variety, low growing, dense, thickly branched, leaves glossy green, pale purple flowers in May, followed by red berries. (H 5, S 5). 18-24 in., \$1.50; 2-3 ft., \$2.00 each.

***Hamamelis (Witch Hazel)**
Virginiana (Witch Hazel)—Bears blooms in late Fall and early Winter at a time when all other shrubs are dormant. The heart-shaped leaves give it a decorative appearance but the chief attraction is the bright yellow flowers which seem to be so out of season. (H 10-12, S 9). 2-3 ft., \$1.00.

***Hydrangea**

Aborescens Grandiflora (Hills of Snow or Snowball Hydrangea)—Snow white blossoms of largest size; flowering from early June until late July. (H 3, S 3). 2-3 ft., \$1.00.

Paniculata Grandiflora—Blossoms the first and every season in July and August and continues in bloom for two or three months; pure white to pink, and finally to a beautiful rich coppery red. (H 5-6, S 5). 2-3 ft., \$1.00.

Oak Leaved (Hydrangea Quercifolia)—Large growing shrub with light green leaves similar to an oak leaf. Pure white flowers in midsummer borne in huge panicles. In autumn leaves take on bright autumnal colors. Thrives in partial shade with plenty of moisture. (H 3-4, S 3). 2-3 ft., \$2.00.

For quantity prices turn to page 16.

Philadelphus Coronaris

*Hypericum

Prolificum—Shrubby St. John's-Wort. Bright yellow flowers are borne in branching terminal clusters. Narrow, lustrous dark green leaves cover the numerous compact branches. (H 2-3, S 2-3.) July. 18-24 in., 75c each; 2-3 ft., \$1.00 each.

Kerria

Japonica—A graceful shrub for the front of a shrubby border, or in a mixed planting around porches. Attractive golden yellow double flowers are borne from June to October. (H 4-5, S 3.) Each, \$1.00.

Kolkwitzia Amabilis (Beauty Bush)

—An exceedingly handsome new ornamental shrub from the wilds of China, resembling the Weigelia and Honey-suckle to which it is allied. Growing 6 to 8 feet high at maturity with long arching branches, this variety combines all the merits of a perfect shrub; hardiness, year around beauty of foliage and habit, and an amazing profusion of pale pink bell-shaped flowers in June. 18-24 in., \$1.75; 2-3 ft., \$2.00 each.

Philadelphus (Mock Orange)

This old-fashioned sweet-scented shrub has long been a close rival of the lilac in popularity.

Coronarius (Garland Mock Orange)—This is a popular tall variety refined and beautiful; large white flowers. (H 6-8, S 4-6.) 2-3 ft., 60c; 3-4 ft., 75c; 4-5 ft., \$1.00.

Grandiflorus (Large-flowered Syringa)—A very vigorous upright grower, attaining at times a height of 20 feet. Slender branches with an abundance of pure white; lightly fragrant flowers in June. (H 8-10, S 8.) 2-3 ft., 60c; 3-4 ft., 75c; 4-5 ft., \$1.00.

Virginalis (Mock Orange)—One of the most beautiful new varieties. A vigorous, tall grower, with very large, double-crested flowers, with round petals. Pure white, sweetly scented clusters of blossoms. 2-3 ft., \$1.00; 3-4 ft., \$1.25 each.

*Ligustrum (Privet)

Amurense—Extremely hardy; upright grower, foliage glossy green, holds color until late. (H 14-15.) 18-24 in., 35c each; 2-3 ft., 50c.

Vulgaris (English)—Leaves small dark green. White flowers in June, followed by black, shiny berries. (H 10-12.) 18-24 in., 25c each; 2-3 ft., 60c each.

Ibota Regelianum (Regals Privet)—Makes a splendid low, dense hedge, also good in shrubby planting. Glossy deep green foliage, height, 5 to 6 feet at maturity. 18-24, 50 each; 2-3 ft., 75c each.

Lodense—Very dwarf and compact at maturity, not exceeding two and one-half feet. Glossy deep green foliage, very attractive. Splendid low hedge or for low specimen plants. 9-12 in., 35c each; 12-15 in., 50c each.

Physocarpus (Ninebark)

Opulifolius (Ninebark)—Quick growing, tall shrub, useful for screens; white flowers followed by bright red fruit in July. H 8-10, S 6.) 2-3 ft., 75c; 3-4 ft., 85c.

Opulifolius Aureus (Golden Ninebark)—Tall, with spreading branches and lustrous leaves, which are yellow when they first appear in the Spring. The whitish flowers appear in early Summer, followed by bright red pods. Plant near large trees where it is difficult to grow other shrubs. (H 8-10, S 6.) 2-3 ft., 75c; 3-4 ft., 85c.

Opulifolius Nana (Dwarf Ninebark)—Dwarf form dense growing, attractive white flowers in May-June, followed by red pods. (H 4-5, S 4.) 18-24 in., 75c; 2-3 ft., \$1.00.

Loespedeza

Formosa (Purplish Bush Clover)—An attractive Autumn herbaceous shrub. Rosy purple flowers in September. (H 3-4, S 3.) 2-year plants, 75c.

Philadelphus Virginalis

Rhodotypos

Kerrioides (White Kerria)—A distinct plant and very attractive, with bright green leaves, and pure white flowers in late Spring. Later come black berries that hang on all Winter. Coming a little later than most of the early Spring flowers, makes it especially valuable. (H 4-5, S 3-4.) 2-3 ft., 85c.

Rhus (Sumac)

Canadensis (Fragrant Sumac)—Sweet scented Sumac. A dwarf shrub with yellow flowers carried in short spikes along the branches, bright red fruits which appear later are clothed with short, silky hairs. Beautiful Autumn foliage. Good for rock gardens. (H 3-4, S 4.) 2-3 ft., 85c.

Copallina (Shining Sumac)—Pretty, glossy foliage, very brilliant in the Fall, and winged-leaved stems give it distant appearance. (H 4-6, S 5.) 2-3 ft., 60c; 3-4 ft., 75c.

Typhina (Staghorn Sumac)—One of the most brilliant plants in Autumn, when the green foliage turns to red, and the showy red fruit is borne high above surrounding shrubs. (H 10-12, S 6.) 2-3 ft., 75c; 4-5 ft., \$1.00.

Typhina lachinata (Shredded Sumac)—The branches are densely covered with velvety hairy-like growth, resembling the developing Elks Horn. Flowers in white panicles. Deeply serrated leaves whose deep crimson color and persistent crimson fruit

makes it attractive for background. July. (H 10-12, S 6-8.) 2-3 ft., 75c; 4-5 ft., \$1.00.

Robinia

Hispida (Rose acacia)—This beautiful shrub is much appreciated because of the abundance of its large, pink, pea-like flowers. (H 4-5, S 5.) 2-3 ft., \$1.00.

Everblooming Mock Orange—(See Virginalis Philadelphus.)

Rosa Rugosa—(See page 16).

Sorbaria—(See False Spirea.)

Spireas

Anthony Waterer—Dwarf, bushy, of spreading type, with large corymbs brilliantly colored rosy crimson. Very free flowering, at its best in late Summer. (H 2-3, S 3.) 2-3 ft., 85c.

Arguta—One of the finest of early Spring blooming shrubs; of light, open habit of growth, with small, deep green foliage; of minute, purest white flowers. Early May. T 3, S 3.) 2-3 ft., 85c.

Billardi **Spirea** (S. Billardi)—Upright grower, with pink flowers in spikes of plumes 5-6 inches long in midsummer. (H 6, S 6.) 2-3 ft., 75c; 3-4 ft., 85c.

Callosa alba (White Japanese Spirea)—Similar to Anthony Waterer in habit and growth, but flowers are white. (H 3-4, S 3.) 2-3 ft., 75c.

False Spirea (Sorbaria Sorbifolia)—A handsome, beautifully arching shrub covered with pointed clusters of cream-white, foamy flowers. (H 6-8, S 6.) 2-3 ft., 75c; 3-4 ft., 85c.

Froebeli (Froebel Spirea)—The bluish green leaves are purple when young. Deep rosy blooms are borne in abundance in the middle of Summer, and over a long period. (H 3-4, S 4.) 18-24 in., 75c; 2-3 ft., 85c.

Douglasi (Douglas Spirea)—Deep pink spikes of flowers in July and August, a delightful contrast against the white downy leaves. (H 5-6, S 5.) 2-3 ft., 75c.

Prunifolia (Double Bridal Wreath)—One of the best; a beautiful shrub medium size, double white flowers in May. (H 6-8, S 6.) 2-3 ft., 85c; 3-4 ft., \$1.00.

Thunbergii—A graceful bush, beautiful at all seasons, with innumerable small white flowers. The tiny leaves turn to a brilliant orange-scarlet in the autumn. (H 4, S 3.) 18-24 in., 75c.

Trichocarpa (Korean Spirea)—New Spirea discovered in Korea. Healthy growing shrub, producing large, rounded clusters of snowy flowers marked with darker eyes in early June, beautiful glossy green foliage late into the Autumn. H 4, S 4.) 2-3 ft., \$2.50 each.

***Van Houtte** (Bridal Wreath)—This is the most satisfactory shrub in cultivation. It is the best variety of Spireas. The bush is round and graceful with long, thin, arching branches. The white flowers are in clusters, and are so numerous that when in full bloom the bush resembles a snowdrift. (H 6-8, S 6.) May and June. 2-3 ft., 50c; 3-4 ft., 75c.

Rhus Typhina

Lilac (Syringa)

Stephandra

Flexuosa (Lace Shrub)—Of graceful fountain-like habit of growth with finely and delicately cut leaves, which in the autumn assume brilliant reddish tints; the flowers are creamy white. 60¢ each.

***Symphoricarpus**

Racemosus (Snowberry) (B) — A graceful shrub, with slender branches. Flowers white or pinkish, in loose racemes, in summer. (H 4-5, S 4.) 2-3 ft., 60¢; 3-4 ft., 75¢.

Vulgaris (Coral-Berry or Indian Currant) (B)—A grand shrub, producing a wealth of red or purplish berries which remain on the branches all winter. Leaves ovate, bright green. (H 4, S 3-4.) 2-3 ft., 60¢; 3-4 ft., 75¢.

Vulgaris Variegata (Variegated Coralberry)—The golden foliage adds color to any shrub border with full exposure to the sun. (H 4, S 3-4.) 2-3 ft., \$1.00.

Syringa or Lilac

Vulgaris (Common)—A tall growing shrub (8 to 15 feet), having large clusters of fragrant purple flowers in the Spring. 2-3 ft., 60¢; 3-4 ft., 75¢.

Vulgaris Alba (Common White Lilac)—Similar in growth to purple variety. 2-3 ft., 85¢; 3-4 ft., \$1.00.

P.-W.'s Persian Lilac—Habit more open and branches more slender and drooping than the Common Lilac. Flowers light purple. Grows 6 to 10 feet. 2 to 3 feet, each, 85¢; 3 to 4 feet, each, \$1.00.

S. Villosa (Japan Lilac)—Large branching panicles of flowers, a pink lilac tint. Late flowering. Bushes are stockier, shorter, of slower growth and more tree-like than other types. In assortment—2 to 3 feet, \$1.00.

FRENCH LILACS

These Lilacs may be developed in either the shrub or tree form. Popular on account of their attractive flowers of varied colors and foliage. Height 10 to 15 feet according to variety.

Mme. C. Perier—Double white.

Pres. Grevy—Double blue.

P.-W.'s New French—Magnificent rosy purple.

Ruby de Marley—Rosy red.

Price—Any of above four varieties, 2-3 feet, \$1.50 each.

Sambucus (Elder)

Acutifolia (Cut Leaf Elder)—Attractive finely cut green leaves and large cymes of white fragrant flowers in June to July, followed by clusters of berries. (H 8-10, S 8.) 2-3 feet, 70¢; 3-4 ft., 85¢.

Canadensis (American Elder)—White flowers are borne in large,

Weigelia Rosea

flat-topped clusters, which open in early Summer. In August and September there are many black fruits, which are commonly used for pies and preserves. (H 6-8, S 5.) June. 2-3 ft., 70¢; 3-4 ft., 85¢ each.

Nigra Aurea (Golden Elder)—Bright yellow foliage, commonly used in massed planting to avoid monotony in the green effects. (H 6-8, S 5.) 2-3 ft., 70¢; 3-4 ft., 85¢.

***Pubens** (Racemosus Red Elder)—Distinguished by its warty leaves and large cymes of white flowers. Showy red berries ripen in early mid-summer. (H 6-8, S 5-6.) May. 2-3 ft., 85¢; 3-4 ft., \$1.00.

French Lilac

Tamarix

Amurensis—Strong, slender, tall-growing shrub of irregular habit, with feathery silver foliage and small, delicate pink flowers, borne profusely on gracefully-bending purple branches. May. H 8-10, S 6.) 2-3 ft., 50¢; 3-4 ft., 65¢.

Gallica (French Tamarix)—Light pink flowers in May. Bluish green foliage. (H 8-9, S 6.) 2-3 ft., 50¢; 3-4 ft., 65¢; 4-5 ft., 85¢.

Hispida (Kashgar Tamarix)—A distinct variety, with delicate, soft pink sprays of flowers in July and August. (H 15, S 6.) 2-3 ft., 75¢; 3-4 ft., \$1.00.

Viburnum

Carlesi—A rare Korean variety which is entirely distinct with salver-shaped flowers of a delicate rose tinted white, passing to white sweet-scented flowers produced in terminal sub-globose cymes 2 to 3 inches in diameter. Good bushy specimens. (H 4, S 3.) 18-21 inches, \$3.50 each.

***Dentatum** (Arrow-wood)—The heart-shaped, green leaves, coarsely cut about the edges, turn to rich

Snowball

purple and red tones in Autumn. Creamy white corymbs of bloom produced in early Summer, followed by blue-black berries. (H 6-8, S 6.) 2-3 ft., \$1.00.

Nannyberry (V. Lentago)—Beautiful wrinkled Lantana-like leaves; white flowers in May and June. Fruits color unequally from Bluish crimson to black. (H 12-15, S 10-12.) 2-3 ft., \$1.00.

***Opulus** (European Cranberry)—The white flowers in June are followed in autumn by bright scarlet berries, which are very attractive until late in winter. (H 10-12, S 10.) 2-3 ft., \$1.00, each; 3-4 ft., \$1.50 each.

Viburnum (Continued)

Opulus Sterilis (Common Snowball)—This bush, so widely known and loved, is one of the most popular of spring blooming shrubs. Its flower clusters are ball-like, pure white and produce no fruit or seeds. (H 8-10, S 10.) 2-3 ft., \$1.00.

Picatum (Japan Snowball)—One of the choice hardy shrubs, with healthy dark green foliage. The perfect balls of pure white flowers are borne in great profusion in May. (H 6-8, S 8.) 2-3 ft., \$1.00.

***Tomentosum** (Single Japanese Snowball)—Exceedingly showy flowers and unusually beautiful foliage. The flower clusters are globe-shaped. After the flowers come decorative red fruits which change to black as the season advances. (H 8, S 6.) 2-3 ft., \$1.00.

Weigelas

Eva Rathke—Considered the finest Weigela in cultivation, blooming continuously throughout the summer and autumn. The flowers are a rich ruby-carmine. (H 4-5, S 5.) 2-3 ft., \$1.00.

Candidi—White flowering, flowering throughout the summer. (H 6-8, S 8.) 2-3 ft., 85¢.

Rosea—A beautiful shrub with rose colored flowers. (H 5-6, S 5.) 2-3 ft., 75¢; 3-4 ft., \$1.00.

Weigelia Eva Rathke

For quantity prices see page 16.

Hedges, Screens and Windbreaks

On varieties not detailed we can furnish special sizes, and shall be glad to quote quantity prices. Under this heading we include the Poplar, Willows, Locusts, Western Catalpa, Thorns, Russian Mulberry, Russian Olive, Altheas, Caragana, Spiraea, Spruces and Arbor Vitae. Correspondence solicited. The deciduous shrubs most popular for hedges we list below.

Berberis Thunbergii (Japan Barberry)—Special size, 1 to 1½ ft., packed in bundles of 10 or 25 at \$4.00 for 10; \$7.50 for 25; \$25.00 for 100.

Rosa Rugosa, Rubra—Special 1-year size, \$4.50 per 10; \$40.00 per 100.

Rosa Rugosa, Alba—\$4.50 per 10; \$40.00 per 100.

Hardy Privet (Ligustrum)—18-24 inch, ten for \$1.25; 50 for \$3.50; \$10.00 per 100; 2-3 feet, ten for \$3.50; 50 for \$6.50; \$12.00 per 100.

Graceful Hedge of Barberry

P.-W.'s SPECIAL WINDBREAK COLLECTION OFFERS

The varieties selected here are especially fitted to stand the most rigorous and exposed situations in the upper valleys of the Intermountain States. We are confident they will fill a long felt want of our customers living in the open country or where a windbreak is desired.

WINDBREAK COLLECTION No. 1.

- 30 Siberian Elm 18/24 inches.
- 30 Black Locust 24/36 inches.
- 30 Russian Olive 18/24 inches.
- 50 Caragana 10/15 inches.

\$10⁰⁰

WINDBREAK COLLECTION No. 2.

- 50 Siberian Elm 18/24 inches.
- 100 Caragana 10/15 inches.
- 50 Black Locust 24/35 inches.
- 50 Russian Olive 18/24 inches.

\$15⁰⁰

All of the above for.....

Delivered to your nearest Express or Postoffice.

All of the above for.....

Delivered to your nearest Express or Postoffice.

P.-W.'s SPECIAL "RESIDENCE FRONT" SHRUB COLLECTION OFFER

Planting Key	Quantity	Variety
A	2	Froehell Spirea
B	3	Red Japanese Quince
C	1	Bush Honeysuckle Pink
D	2	Coralberry
E	1	Snowberry
F	8	Japanese Barberry

Planting Key	Quantity	Variety
G	2	Spiraea Van Houtte
H	2	Buddleia Butterfly Bush
I	1	Mock Orange Grandiflora
J	1	Deutzia Crenata Rosea
K	1	Forsythia Golden Bell

All of the above strong, vigorous shrubs, 24 in all, prepaid to your nearest Express Station or Postoffice for only \$12.00.

QUANTITY PRICE SCHEDULE FOR TREES, SHRUBS, ETC.

Where each price only is printed in this Catalog the table below determines the 10 and 100 rates on the respective items of trees and shrubs. Unless otherwise specified the prices are f.o.b Salt Lake City.

Where each Price is	Per Ten Rate is	Per 100 Rate is	Where each Price is	Per Ten Rate is	Per 100 Rate is	Where each Price is	Per Ten Rate is	Per 100 Rate is
\$.25	\$ 2.25	\$ 20.00	\$.80	\$ 7.50	\$ 64.00	\$2.75	\$24.75	\$220.00
.30	2.70	24.00	.85	8.00	67.50	3.00	27.00	240.00
.35	3.25	28.00	.90	8.50	72.00	3.25	29.25	260.00
.40	3.60	32.00	.95	9.00	76.00	3.50	31.50	280.00
.45	4.00	36.00	1.00	9.50	80.00	3.75	33.75	300.00
.50	4.50	40.00	1.25	11.25	100.00	4.00	36.00	320.00
.55	5.00	44.00	1.50	13.50	120.00	4.25	38.25	340.00
.60	5.50	48.00	1.75	15.00	140.00	4.50	40.50	360.00
.65	5.75	52.00	2.00	18.00	160.00	4.75	42.75	380.00
.70	6.25	56.00	2.25	20.00	180.00	5.00	45.00	400.00
.75	6.75	60.00	2.50	22.50	200.00	5.50	50.00	440.00

Five or more of one variety at the 10 rate, 25 or more at the 100 rate.

P.-W.'s Glorious Roses

SOME THINGS TO OBSERVE FOR SUCCESS WITH ROSES

Unpacking—Should plants, when received, have a withered appearance, caused by an unusual delay in transit (which seldom occurs), soak them in water for an hour or more so as to restore their vitality.

How to Plant—The rose delights in an open, airy situation; all types are partial to clay loam, but will succeed in any ordinary soil if enriched with well rotted barnyard manure. Dig up the soil thoroughly to a depth of twelve to fifteen inches. Dig a hole sufficiently large to accommodate the root, and pour a half pail of water into the hole; in filling, shake the plant lightly so that the soil may fall evenly all around the roots; this avoids cavities. Firm the soil well around the plant in order that it may be solid. Be sure that the buds or grafts, that is where the lower branches begin are at least 2 inches below the surface of the soil. **Don't fail to prune off the branches as soon as planted, at least as much as shown in "Fig. 2" below.** Bush Roses can be set 1½ feet apart, climbing varieties from 4 to 6 feet apart, and standard Roses 3 or more feet apart.

To prevent the top branches from shriveling up before the root system has been developed, the earth should be filled up as shown in "Fig. 2" below. The branches still exposed, should be cut down to the mound surface. Be sure to keep the ground moist after planting. In about three weeks' time the mound of earth may be gradually leveled down to the normal surface as shown in "Fig. 1." Cultivate freely throughout the summer and apply a light top dressing of bonemeal or "Vigoro," Fertilizer, (see page 31) at least once a month throughout the growing season.

Pruning—This operation is best performed during the dormant season. Most roses do better if moderately pruned. We usually remove from one-third to two-thirds of the past year's growth, and all weak and decayed wood should be entirely cut out. As a rule the more vigorous the variety the more it should be pruned. Besides spring pruning, many of the hybrid Perpetuals required to be pruned as soon as their first blossom is over, in order to grow new wood for later blooming. It is always the new growth which gives flowers. Most people are apt to prune too sparingly, which retards rather than enhances the free-blooming of their plants.

Spraying in Roses—See pages 28-29 on Insecticides. **Time for Planting**—In this Intermountain region, the best time for planting is in the spring, immediately after the frost is out of the ground, and as soon as the ground can be worked nicely.

Winter Protection—We have found that the most satisfactory protection is to draw up a mound of soil from eight to ten inches high around the base of the plants, then covering the entire beds after the ground begins to freeze with any loose material, such as strawy manure, leaves, etc. (See above cut, Fig. 3).

Fig. 1—Proper Depth to Plant

Fig. 2—Properly filled up "after planting"

Fig. 3—Winter protection in cold regions

RUGOSA ROSES

Shrub like roses. Valuable for their foliage and highly colored "hips"; show to good advantage in groups and hedges.

Rubra—4 to 5 feet high, foliage large, beautifully crinkled, color dark green. Flowers single, rosy crimson, orange-scarlet fruits. Each, 50c.

Alba—Foliage and habits, like "Rubra," flowers pure white, followed by orange-colored fruits. Each, 50c.

New Century—Double-flowering pink-rose. Excellent in shrub planting. Each, 50c.

Red F. J. Grootendorst It is a cross between Rubra and the crimson Baby Rambler. Imagine a shrub-like Rugosa Rose covered with trusses of crimson Baby Rambler Roses and you will have a fair conception of this new hybrid variety. It is valuable to plant as a specimen or in a mass in an exposed position or use it for an everblooming hedge for which purpose it is admirably adapted. Each, 60c.

Pink F. J. Grootendorst Same as the red variety except the flowers are a beautiful, clear pink. Each, 60c.

P.-W.'s POLYANTHA OR BABY ROSES

A class of dwarf habit all through summer and fall, for bedding or as edging for borders they are very beautiful. They are useful for pot culture or bedding purposes or for hedge effects.

Baby Dorothy—A pure pink with all quality of the Crimson Baby Rambler. Each, 60c.

Eugenie Lamesch—Color orange to clear yellow and rose, flowers in large clusters. Each, 75c.

Madame Cecil Brunner—Color salmon-rose, the most beautiful and lovely of the miniature roses; very fragrant. Each, 60c.

Lafayette—Bright red; large, semi-double flowers; as "Paul's Scarlet," good keeper. Very fine flowering. Each, 75c.

Silver Moon Climbing Rose transformed an insightly back fence into a thing of beauty

P.W.'s HARDY CLIMBING ROSES

American Pillar—A single-flowering variety of great beauty, which appeals to everyone. Flowers are enormous in size, three to four inches across, of a lovely shade of pink, with a clear white eye and cluster of yellow stamens. Each, 60c.

Bess Lovett—Produces many large and fragrant flowers of clear, bright crimson, double, full, cupped, and of lasting quality. Though resembling Climbing American Beauty, it is much superior by reason of its brighter color. Each, 60c.

Climbing American Beauty—Same color, size and fragrance as American Beauty, with the addition of the climbing habit. Each, 60c.

Dorothy Perkins—Old-fashioned cluster roses. We supply three colors, Pink, Red and White. Each, 60c.

Flower of Fairfield—This is a much-heralded free-blooming Crimson Rambler; deep crimson in immense clusters. Each, 60c.

Paul's Scarlet Climber—No other Rose, in any class, can compare with this for brilliancy of color which is maintained until the petals fall. It is of strong climbing habit and perfectly hardy. This is one of the most popular red climbing Roses. Each, 60c.

Silver Moon—Beautiful semi-double flowers four inches and over in diameter, pure white in color, petals of great substance, beautifully cupped, yellow stamens in the centre adds to its attractiveness. Each, 60c.

P.-W.'s EVERBLOOMING CLIMBING ROSES

While these varieties do not bloom as constantly as their Hybrid Tea parents, yet their bloom period recurs during the season so they are classed as everblooming. Where possible give them a protected situation.

Climbing Cecil Brunner—Very robust. Hardy and suitable for all sections. Clear salmon-pink. Each, 60c.

Cl. Gruss an Teplitz—A perfect sheet of crimson when in bloom. It's the same as the bush Teplitz. Each, 60c.

Climbing Hadley—Deep velvety-crimson, double, and buds are well-formed. Each, 75c.

Climbing Hoosier Beauty—Climbing form of the popular bush variety. Vivid red, opening from glowing sunder buds. Each, 75c.

Climbing Kaiserine Augusta Victoria—This is easily the grandest climbing white rose extant. Each, 75c.

For Quantity Prices turn to page 10 extra for packing and postage.

Christine Wright—Strong climbing habit. The flowers double, from 3 1/2 to 4 inches, beautiful in the bud and in the fully expanded flower; Color bright wild-rose pink. Each, 60c.

Dr. W. Van Fleet—The long pointed buds are of a rich flesh-pink on stems 12 to 18 inches long; splendid for cutting. A strong, vigorous grower. Each 60c.

Emily Gray—In this we have a real yellow climbing Rose as hardy as Dr. Van Fleet. The buds are long and pointed, color a beautiful light orange-yellow; dark green, glossy, holly-like foliage. Each, 75c.

Mary Wallace—This is a pillar Rose making a fine, strong, self-supporting plant 6 to 8 feet high, with large glossy foliage, blooming with great freedom in spring and bearing considerable number of fine buds in summer and fall. Flowers very large, semi-double, clear rose-pink with salmon base. Each, 75c.

Star of Persia—Flowers on the order of the lovely old Harrison's Yellow; semi-double, bright yellow, and about 3 inches across; striking low climber or pillar Rose from 8 to 10 feet high; the flower trusses last several weeks. Each, \$1.00.

Tausendschoen (Thousand Beauties)—A most delicate shade of soft pink when first opening, changing to a carmine on the reverse of petals when flowers fully expanded. Almost thornless. Each, 60c.

Climbing Los Angeles—Flowers identical with bush form of Los Angeles flame pink-toned coral, gold base. Each, 75c.

Climbing Mme. Caroline Testout—A solid cerise-pink and does not fade. Highly fragrant. Each, 60c.

Cl. Mrs. Aaron Ward—A climbing sport of this well known yellow variety. Vigorous, free blooming flowers. Golden yellow. Each, 75c.

Climbing Winnie Davis—A sport from the bush variety. Apricot pink color and long buds of fine form. Each, 60c.

Cl. Sunburst—Same as the well known bush. Golden yellow. Each, 75c.

If by mail, add 10 each; 50c per

Climbing Kaiserine Augusta Victoria 2nd year from planting.

Talisman

Miss Rowena Thom

Edith Nellie Perkins

P.-W.'s COLLECTION OF NEW AND RECENT INTRODUCTIONS EVERBLOOMING ROSES

Here you have recent and new rose creations, representing the very last word in "up-to-the-minute" varieties. Words are wholly inadequate, they must be seen in real life, for one to begin to realize or appreciate their exquisite beauty and delightful fragrance.

Angelus

President Hoover

Angelus. H.T. This splendid rose is a cross between Columbia and Ophelia. The flowers are large double white with cream tint at center. It is delightfully fragrant. The foliage is a dark green. Very thrifty and vigorous, blooming profusely during the entire summer. Each \$1.00.

Belarcliff. H.T. Flowers are a pleasing shade of soft pink, buds are long and pointed. Keeps a long time as a cut flower, a decided improvement on Columbia. Fills a long felt want in a pink rose. Flower is double and full to the center. Each \$1.00.

Dame Edith Helen. H.T. Perfect buds developing into wonderful flowers of immense size are produced singly on well-foliated strong canes. The flowers are composed of very substantial broad petals which curl back prettily forming a glorious long pointed bud and a full double flower which is beautiful in every stage of development. Color a brilliant yet soft rose-pink; strongly sweet-scented. Each 75c.

Edith Nellie Perkins. H.T. A new combination of colors, cream and blush as a bud, when the guard petals open they disclose a perfect pointed flower of rich carmine pink. The inside of petals are flesh with a golden suffusion, running to pure gold at the base of the petals; a very striking bloom. The flowers come singly on long canes on a very vigorous plant. Spicy fragrance. Each \$1.25.

E. G. Hill. H.T. Thrifty, vigorous grower. The flower is dazzling scarlet, shading to a deeper pure red as it develops, but never showing purple. It produces long stems naturally and the foliage develops freely and is of fine color. Each, \$1.00.

Lady Margaret Stewart. H.T. A Rose unique in color, the flowers in the young stage are a deep sunflower heavily veined splashed with orange-scarlet, reverse of the petals deeply suffused with carmine, as the flowers develop these colors intermingle forming a beautiful cadmium-orange effect. The bud is long and pointed, opening to a full double flower, of pleasing decorative form of delightfully sweet fragrance. Each \$1.00.

Lord Charlemont. H.T. This beautiful variety is the most gorgeous and brilliant dark red rose we have with flowers of intense, clear, crimson scarlet, deepening to carmine-crimson with almost black shadings with perfectly shaped long pointed buds and large full double. Each, 75c.

Lucinda. H.T. This delightful new rose is or Sport Columbia. Color pure, even bright rose, and in opening the bloom has a gracefully rounded form which is a delightful surprise. Should have a place in every garden. Each \$1.00.

President Hoover. H.T. A glorious Rose, wonderfully free in the easy manner in which it grows and charming in its color arrangement which is a splendid combination of cerise-pink, flame, scarlet and yellow; this combination of colors gives the most dazzling color effect imaginable. The buds are beautifully pointed, the flowers large, composed of broad thick heavy petals, with an exquisite fragrance. It is exceptionally free flowering and everyone will be delighted with its habit of growth. Awarded the Gold Medal at the International Flower Show in New York, 1929. Each \$1.50.

Miss Rowena Thom. H.T.

Flowers are large, frequently 5 1/2 inches in diameter, equal to the best recent introductions and all of which it will outclass in freedom of flowering. Its buds are long and shapely, opening to perfect double flowers of brilliant rose-pink, the base of the petals having a golden suffusion which as the fragrant flowers unfold adds to the brilliancy of its coloring. Each, \$1.00.

Talisman. H.T. This new American Rose created a sensation at all the shows where exhibited and was awarded Gold Medals by the American Rose Society. A combination of shadings of gold, apricot, yellow and deep pink or old rose. The outside of the petals is bright yellow, gold and pink; as the flower develops and the petals unfold they become bright apricot, gold deep rose, pink or old rose and, unlike most roses, the color becomes brighter as the flower develops. Each, \$1.25.

P.-W.'s "Novelty" Eleven Rose Collection Offer

One Strong Two-Year Shrub, each of the varieties listed on this page POSTPAID FOR \$10.00

1931 "NOVELTY FIVE" ROSE COLLECTION OFFER
Customer's Selection One Rose Each of Any Five Varieties Listed on this Page—POSTPAID FOR \$5.00

For Quantity Price Schedule turn to page 16. If by mail add 10 cents each; 50c per ten extra for packing and postage.

P.-W.'s Ever Blooming Rose Collection

The varieties selected in this list bloom freely and without interruption from the first year; stand severe winters with only ordinary protection. We have taken exceptional pains in selecting out of the hundreds now in cultivation just those varieties which we judge to be truly worth while. Whether old stand-bys or brand new novelties the same rule has been followed to choose only those that stand out as having exceptional merit.

This list is the pick of both old and new.—The leading Ever-blooming Garden Roses to date. Hybrid Tea are marked (H. T.), Hybrid Perpetual (H. P.) and Tea Roses (T.). Unless otherwise noted, price of any on this page, 75c each; \$6.75 per ten. Charges prepaid, strong, healthy 2-year-old dormant roots. For convenience in selecting colors we have arranged the varieties in color groups.

Salmon, Coral, Copper and Apricot Shades

Annie Laurie (H. T.)—Sport of Ophelia. But large, long pointed; flowers large, very double; flesh pink, edges deeper, golden yellow base; long strong stems. Foliage abundant, rich glossy green, disease resistant. Few thorns. Continuous bloomer. Each, 60c.

Betty (H.T.)—Color coppery-rose shaded golden-yellow; deliciously perfumed. Each, 60c.

Doris Traylor (H.T.)—Color Imperial pink flushed crimson and orange, the coloring is intensified by the golden base of the petals which give the flowers a golden suffusion which is difficult to convey. They later change to deep amber yellow which does not fade. Growth vigorous and very free flowering. Each, 75c.

Miss Lolita Armour

Empire Queen (H. T.)—Attractive long slender buds of a clear, rich cerise color, gradually expanding into well shaped flowers possessing at times an orange flush delightfully fragrant. Each, 75c.

Irish Fire Flame (H.T.)—Closed bud fiery orange-red, shading to lighter at base, when full open bright salmon; five petaled and single; one of the daintiest and sweetest things imaginable. Each, 75c.

Los Angeles (H. T.)—One of the best Roses ever introduced; flowers luminous flame-pink toned with coral and shaded with translucent gold at the base of the petals, on long stems; very fragrant. Buds are long and pointed. Growth vigorous and produces a continuous succession of bloom. Price, each, 60c.

Souv. de H. A. Verschuren

Padre

Madam Butterfly (H. T.)—Sport of Ophelia, showing better growth, more and larger flowers, in a brighter pink, suffused apricot and gold. Very fragrant and a fine keeper after cutting. Price, each, 60c.

Maud Cummings. (Per)—A delightful combination of colors, peach, shaded coral-pink, veined orange, with base of petals deep orange, large and full, retaining the color well. Growth strong and bushy, with deep bronzy-green foliage, very fine and free from mildew. For bedding and massing this Rose is unsurpassed for its effective coloring. Each, 75c.

Miss Lolita Armour—Color chrome yellow at base, shading to burnt orange and copper, reverse of petals chrome-yellow at base, shading to bright salmon with copper suffusion; passes to shrimp-pink and copper with age. Foliage abundant, leathery, zone-green. Growth vigorous, abundant bloomer. Each, 75c.

Ophelia (H.T.)—Color salmon-flesh shaded with rose, large and perfect shape, 60c.

Mme. Edouard Herriot (H.T.)—The Dally Mail Rose in color its buds are coral-red, shaped with yellow at the base of the open flowers of medium size, semi-double are of a superb coral-red, shaded with yellow and bright rosy-scarlet passing to shrimp-pink. Each, 75c.

Padre (H.T.)—One of the finest bedding Roses of recent introduction. This is brilliant coppery-red flushed with yellow at the base, a color combination that appeals to everyone. The beautiful long buds are borne on long, stiff stems. Splendid for cutting as well as for garden decoration. Each, 75c.

President Wilson (H.T.)—A most delightful shade of shrimp pink shading to coral red at base of petals. Flowers are large and freely produced upon long erect stems. Each, 60c.

Willowmere (H.T.)—This splendid Rose is of a coral-red suffused with carmine in the bud state, and opens to a large, full, handsome flower of a rich shrimp-pink shaded yellow in the center and flushed carmine-like towards the edges of the petals. Each, 75c.

William F. Dreer (H.T.)—The flowers, are similar in shape to Los Angeles, and are at their best in the half-expanded flower. These, in expanding, are of a soft, silvery shell-pink, the base of the petals of a rich golden-yellow which, at certain stages of development gives a golden suffusion to the entire flower, being particularly brilliant early and late in the season. Each 75c.

Pink and Rose Shades

America (H.T.)—The Big Pink Beauty. Produces long stems, topped by large shapely flowers of peach pink; opens freely practically thornless and very fragrant. A wonderful keeper after cutting. Price, each, 75c.

Columbia (H.T.)—Peach-blow pink deepening as it opens to glowing pink; large, open flowers measuring six inches across. Long stiff stems, nearly thornless free from mildew, vigorous. Price, each, 75c.

George Ahrends (H.P.)—Clear brilliant pink, good bud and perfect form flower. Known as Pink Frau Karl Druschki. Each, 60c.

Killarney (H.T.)—Brilliant sparkling pink with large, pointed buds, broad, waxlike petals and enormous semi-full flowers of exceeding beauty. One of the very finest forcers. Each, 60c.

For quantity prices turn to page 16. If by mail add 10c each; 50c per 10 extra for packing and postage.

P.-W.'s EVER BLOOMING ROSES (Continued)

Pink and Rose Shades—(Continued)

La France (H.T.)—Beautiful silvery-pink; large, full and fine form. Each, 60c.

Madame Caroline Testout (H.T.)—Grand bright pink, flowering freely all summer; known as the "Portland Rose." Each, 60c.

Mme. Seg. Weber (H.T.)—Vigorous grower; free-flowering, large, perfectly formed, fragrant flowers of salmon-pink. Each, 60c.

Mrs. Charles Russell (H.T.)—The bud is fully as large as American Beauty but longer and pointed; color bright rose-pink, deeper towards the center. Each, 60c.

Mrs. John Laing (H.P.)—Very delicate pink. Each, 60c.

Paul Neyron (H.P.)—Immense bright shiny pink; clear and beautiful. Blooms all summer. Each, 60c.

Radiance (H.T.)—In color a brilliant carmine-pink, with salmon-pink and yellow shadings at the base of the petals, truly a rose for every garden. Endures hot weather splendidly. Each, 60c.

Rose Marie (H.T.)—One of the best bedding roses grown, remarkably free-flowering, producing large, long ideal buds, which develop into full flowers of beautiful form of a most pleasing clear rose-pink. Each, 60c.

Winnie Davis (H.T.)—Brilliant apricot-pink with reflex lighter tints, making very handsome semidouble graceful Rose. Buds long, fine form. Each, 60c.

Crimson, Red and Scarlet Shades

Cruasader (H. T.)—Very free flowering, strong grower. Color a rich velvety crimson. Each, 60c.

Edward Mawley (H. T.)—A beautiful rich crimson touched with maroon, with a delightful velvet gloss. Each, 60c.

Etolls De France (H. T.)—Strong, upright growth; beautiful bronze-green foliage. Blooms constantly, producing large, massive deep, cup-form flowers on long stems; clear red and velvety crimson color. Each, 60c.

Gruesse an Teplitz (Virginia R. Cox) (H. T.)—The best bedding and hedge rose for the Rocky Mountain states. In bloom continuously from early spring until snow. The color is fiery-crimson, shaded with a dark velvety sheen, a combination found in no other rose; perfectly hardy in all sections. Each, 60c.

Hadley (H. T.)—A splendid velvety crimson, with large well formed buds, most delicate fragrance. Each, 60c.

Herman Neuhoft (H. T.)—Flower dark red, shaded with black, large, well formed, produced on long and stiff stems; strongly and deliciously perfumed. The plant is of vigorous growth, and very free-flowering. A constant bloomer. Each, 60c.

Hoosier Beauty (H. T.)—Beautiful well-shaped long buds; color intense, rich, dazzling crimson-scarlet; delicately fragrant. Each, 60c.

Mrs. A. R. Waddell (H. T.)—A rosy-scarlet, opening rosy-salmon, with reverse of petals rosy-scarlet. A sturdy, erect and vigorous grower. Each, 60c.

Prince Camille De Rohan (H. P.)—Deep velvety crimson color, passing to intense maroon and shaded black. Each, 75c.

Mrs. F. R. Pierson. (H. T.)—Color fine example of scarlet crimson. Sport Premier. Bud large, pointed; flower to medium, double, full, high centered; bright carmine; borne singly on strong stems of medium length; very fragrant. Foliage abundant, large, leathery green, disease-resistant. Vigorous; profuse bloomer. Each, 60c.

P.-W.'s Red American Beauty (H. P.)—Same habits of growth and bloom as the popular forcing American Beauty. Each, 75c.

Red Radiance (H. T.)—An ideal bedding Rose that continues to produce its large flowers throughout the season, even during the most unfavorable hot summer weather, when many varieties fail; in color a bright, clear cerise-red. Each, 60c.

Red Letter Day (H. T.)—An exceedingly beautiful Rose of infinite grace and charm. Its velvety, brilliant, growing scarlet-crimson buds and fully opened cactus-like flowers never fade, as the reflex of the petals is satiny crimson-scarlet. Awarded S. G. Medal, N. R. S. Each, 60c.

Souvenir de Georges Pernet (H. T.)—Strong, vigorous grower, flowers buds brick red, opening to salmon-pink and deeper at the margin of the petals. Price: each, 60c.

For quantity price schedule turn to page 16. If by mail add 10c each; 50c per 10 extra for packing and postage.

Gruss All Teplitz—Bloom from June to Snow

Sensation (H. T.)—As large and more prolific than Premier. Well supplied with heavy, luxuriant foliage. Bud is long pointed and the open flower of extreme size and good color to the last. Good keeper. Color magnificent shade of red. Price, each, 60c.

Ulrich Brunner (H. P.)—Cherry red. Brilliant. Each, 60c.

Orange and Yellow Shades

Duchess of Wellington (H.T.)—Intense saffron yellow stained with crimson, changing to deep coppery saffron yellow. Each, 75c.

Florence L. Izard. H.T.—Foliage mildew-proof and glossy. Awarded the gold medal at the National Rose Society. This magnificent Rose is a rich golden-yellow, a strong, healthy and vigorous grower, immense bloomer, bearing flowers and buds early and late. The flowers are very deep, rich and full, excellent substance, very sweet. Remarkably hardy. Each, 75c.

Golden Emblem (H. T.)—A most beautiful clear yellow, occasionally flaked with crimson on the outer petals, wonderfully well shaped; buds and flowers on long stems with rich, glossy foliage. Each, 75c.

Golden Pernet—A most vigorous grower of erect branching habit, beautiful, brilliant green foliage, long pointed buds of exquisite shape, carried on long, stiff stems. Very large, full flowers with elongated deep petals; a beautifully formed bloom. The color is rich, a yellow cadmium tinging to sunflower yellow. A splendid yard and garden type, blooming profusely and continuously throughout the season. Each, 75c.

Rev. F. Page Roberts—Copper-red buds opening to golden yellow, tinted red on the outside. An attractive, fragrant and free-blooming variety. Each, 75c.

Souvenir de Claudius Pernet (H. T.)—Vigorous grower, erect branching habit, beautiful brilliant green foliage, buds long pointed on long stiff stems. Flowers large, full, beautifully formed. Good striking sunflower-yellow deeper in center. Does not fade in the warmest weather. Each, 75c.

Souvenir de H. T. Verschuren (H. T.)—This new variety is a strong vigorous grower. Buds are long, of ideal shape for cutting, opening out into full-double flowers of good form. Center in apricot-yellow at edges, intensely sweet pea scent, not found in many other roses. Price, each, 75c.

Sunstar (H. T.)—Deep yellow edged, veined and splashed crimson and vermillion, all colors that attract and vary in tone and intensity as the blooms develop, of medium size, highly scented. Awarded a gold medal by the National Rose Society of England. Each, 90c.

ORANGE AND YELLOW SHADE—(Cont.)

Mrs. Calvin Coolidge (H. T.)—Sport of Ophelia. Bud medium size, long-pointed; flower medium size, rich yellow, deepening as it opens. Foliage glossy dark green. Few thorns. Price, each, 75c.

Ophelia Golden (H. T.)—A seedling of Ophelia possessing many of its characteristics. Rich golden, yellow at center, paling slightly at outer petals. Price, 75c.

Mrs. Aaron Ward (H. T.)—Coppery-orange in the open bud but golden orange when partly developed, pinkish-fawn of lovely shade when fully open. Each, 75c.

Old Gold (H. T.)—Vivid reddish-orange, with coppery-red and apricot shadings; strong, mildew proof and free. Medium size, semi-double. Each, 60c.

Sunburst (H. T.)—Long, pointed buds; color, orange-copper or golden-orange and golden-yellow; edge of petals lighter. Each, 75c.

Rosa Hugonis—It is of shrub-like habit of growth and naturally forms symmetrical bushes about 6 feet high, and the same in diameter, and while not suited to plant in the Rose border, it is an invaluable subject when planted in connection with other shrubs or as single specimens in the garden. Its delicate yellow single flowers are produced on long arching sprays early in May, every branch of the previous season's growth becomes lined on both sides to the very tips with these attractive flowers, and after it has finished flowering it remains an attractive decorative bush for the balance of the season; perfectly hardy. Each, 60c.

WHITE & BLUSH WHITE

American Beauty White (Frau Karl Druschki) (H. P.)—Best snow-white rose. Immense in size and hardy everywhere. Each, 75c.

Kaiserine Augusta Victoria (H. T.)—In color it is a soft, pearly-white, tinted with just enough lemon in the center to relieve the white; remarkably fragrant. Each, 60c.

White Killarney, Double (H. T.)—A pure white sport of the famous and popular Killarney Rose much more double than its parent. Each, 60c.

Turn to page 16 for quantity price schedule. If by mail add 10c each, 50c per 10 extra for packing and postage.

White American Beauty

Tree Rose
Mad Ed.
Herriot

TREE ROSES

We offer the following choice everblooming varieties established in cans, extra strong plants with stems 3 to 4 ft. high.

Angela Pernat—Orange
Dame Edith Hallan—Pink
Etoile de Hollande—Red
Golden Emblem—Golden Yellow

Gruee an Tepitz—Red
Hooelar Beauty—Red
K. A. Victoria—White
Los Angeles—Coral Pink

Mme Edouard Herriot—Coral Red
Mrs. Geo. Shawyer—Pink
Rose Marie—Pink
Sensation—Red

Price, any of above, f.o.b. Salt Lake City, \$3.50 each; shipping weight, 50 lbs. each.

BOOKS ON HORTICULTURE AND KINDRED SUBJECTS

All Books Sent Postpaid at Prices Given

Annuals, Little Book of (Hottes)—A reliable guide to the culture of annual flowers, over 100 separate species are described with full directions for their culture and uses. Each, \$1.65.

Berry Book (Biggie's)—All small fruits are treated in this complete little book. Price, 60c.

Book of Bulbs (Rockwell)—A new book giving complete directions for the growing of all kinds of bulbs. Price, \$3.15.

Dahlias (Rockwell)—Learn to know the different types of dahlias and their uses in your garden, how to plant and grow them, what fertilizers to use, how to control pests, how to harvest and store the tubers, grow for exhibition, and how to propagate and hybridize. Brief and practical. 65 illustrations, 80 pages. Price, \$1.40.

Flower Garden, The Practical (Mrs. Ely)—A very useful and practical book, finely illustrated. Price, \$2.15.

Fruit Growing, Principles of (Bailey)—Revised edition, presenting the most approved methods of American Growers. Price, \$2.65.

Garden Guide (Amateur Gardener's Handbook)—Tells how to plan, plant and maintain the home grounds, how to grow vegetables, fruits, flowers, etc. Price, \$1.10.

How to Grow Roses (Pyle, McFarland and Stevens)—Makes every step in the culture and care of roses so clear that any grower can understand it and succeed with them. A completely re-written edition of America's most popular rose book. 144 pages, 32 plates in full color, 32 half-tones, and other illustrations. Price, \$2.15.

Landscape Gardening (Prof. Waugh)—A new and valuable book on the general principles governing outdoor art. Freely illustrated. Price, \$2.15.

Milady's House Plants (Palmer)—Tells of the plants which any woman can successfully grow indoors; 100 instructive pictures. Price, \$1.40.

Mushroom Growing (Dugger)—The latest work on this subject, reliable and up-to-date. Price, \$2.15.

One Thousand and One Garden Questions Answered (Prof. A. C. Hottes)—A book of 320 pages, copiously illustrated, gives valuable information and a wealth of garden facts which hundreds of men have spent their lives in obtaining. Price, \$2.15.

Perennials, Little Book of (Hottes)—Devoted to the general principles of growing, using and propagating old-fashioned hardy perennial plants. Price, \$1.65.

Plant Culture (Oliver)—A greatly enlarged edition of this splendid handbook of everyday practice for the florist and gardener. Price, \$3.65.

Practical Landscape Gardening (Cridland)—Of particular value to the owner of the moderate sized suburban home, nicely illustrated. Price, \$2.65.

Rock Gardens (Rockwell)—Tells just where and how to make a Rock Garden, what plants to use and where to put them, illustrated. Price, \$1.10.

The Home Vegetable Garden (Freeman)—Full of practical details for laying out the garden, planting and growing vegetables successfully. 8 illustrations, 214 pages. Price, \$1.85.

Water Gardens and Goldfish (Sawyer and Perkins)—This tells how to grow Waterlilies in a small way in a tub or on a balcony, gradually leading up to the establishment of water gardens in concrete tubs and ponds, on varieties to grow, cultural directions, control of insect pests, pollenizing, etc. The second half of the book devoted to Goldfish, covers Varieties of Goldfish, Breeding, Fish Foods, Fish Diseases and Remedies and the Home Aquarium and Its Management. Price, \$1.65.

Vegetable Gardening (Krumh)—Written especially for the home garden, tells what and when to plant and how to care for them; freely illustrated. Price, \$2.15.

MOE'S LINE

Five Fingered Weeder—Each, 25c.

MOE'S LINE

Transplanting Trowel—Each, 25c.

MOE'S LINE

Garden Trowel—Each, 25.

Set of Three—One each of above—70c. Shipping weight, 2 lbs.

"NORCROSS" CULTIVATOR-HOES AND WEEDERS

Will cultivate closer to plants without injuring them than any other type of implement known, leaving the soil level, loose and untrampled.

Three Sizes and Prices Each
5-prong, 4 ft. handle, wt. 3 lbs...\$1.25
3-prong, 4 ft. handle, wt. 2 lbs... .90
"Midget," 90 in. handle, wt. 12 oz. .60

No. 907—Garden Hoe (Steel).....\$1.30
No. B4—Beet Hoe (Steel)..... .85
No. B16—Turf Edger (Steel)..... 1.75
No. B14—Garden Rake (Steel)..... 1.55
No. B16—Garden Rake (Steel)..... 1.65
No. OL—Spading Fork (Steel)..... 1.50
No. A62—Spade (Steel)..... 1.50
No. 124—Lawn Rake (Steel)..... .90
Bamboo Lawn Rake (Strong)..... .75
No. V52 Shovel Round pt. (Steel) 2.00

Dandelion Digger No. 219—Forged from best material. Each 5; postpaid, 50c.

Spading Fork No. A-30—No home gardener should be without this handy tool. Each, 60c; postpaid, 70c.

Weeder No. 830—5 prong, green corrugated handle. Forged from 3/4 Octagon Tool Steel. Each, 50c.

Grass Sickie No. 3—Evenly tempered, keen edged. Just the right tool for long grass and weeds. Each, 75c; postpaid, 85c.

Trowel T20—6 inches long, steel. Each, 40c.

Trowel T10—6 in. long extra heavy crucible steel forged in one piece. Each, \$1.00.

T25—Trowel—6 in. Transplanting trowel, one piece rolled steel. Each, 25c.

Pruning Shears No. 128—8 in.—A good low priced shear. Each, 95c, postpaid, \$1.05.

Pruning Shear No. 179—9 in. same pattern as No. 128. Each, \$1.25; postpaid, \$1.35.

Pruning Shears No. 149—High grade, strong, easy to handle, very durable. Each, \$2.35; postpaid, \$2.45.

Pruning Shears No. 21 — Highest grade, best style and design, patent adjustable lock nut. Transforms pruning into a real pleasure. Each, \$2.75; postpaid, \$2.85.

Pruning Shear No. 1409—Forged tool steel, ratchet nut, brass spring, length 9 inches. Each, \$1.75.

Hedge Shears No. 800 — Heavy steel, long blades, very serviceable. Each, \$2.25; postpaid, \$2.75.

Grasnip No. 1—All-around shear for grass, vines and light shrubs; 6 in. steel blades. Each, \$1.00.

Hedge Shear No. 600—Full polished steel blades. Designed for Ladies use. Each, \$1.25.

Trimsnip Sto 8—Serrated polished steel blades, maple handles. Each, \$2.75.

Grass Shears No. VI—6 in. blade, hollow ground; trowel shank, polished all over. Each, \$1.15.

Grasnip No. 160—The new way to cut your grass and weeds without stooping. Length over all 37 inches; blade length 9 1/4 inches; blade width 1 3/4 inches. Each, \$1.00.

Doo-Klip Grass Shear

Trim your lawn in comfort with the DOO-KLIP—the shear that takes all the wrist tire and finger-ache out of lawn trimming. The easy, natural up-and-down operation does it. It keeps the hand out of the dirt. Each, \$1.50.

Doo-Klip Pruners—The Doo-Klip Pruner is particularly made for the average home owner to use in pruning rose bushes, small shrubs, saplings, grape vines, etc. Its construction is such that proper pruning is done without technical knowledge. Amateur efforts produce professional results. Each, \$1.50.

THE "OUT-U-KUM" WEED PULLER

An Entirely New Principle

A slight Push and Pull thoroughly loosens the surrounding soil and removes not only the weed, but the ENTIRE ROOT.

Price, 85c each.

GARDEN TOOLS

All equipped with special oval hardwood handles. Blades are made of the finest tool steel and perfectly tempered. Once sharpened they keep their edge. These blades are held in place by a patented "U" bolt fastener. Loosen two bolts to remove the blade.

No. 1 Mattock spring steel blade 54" handle, each, \$1.20.

No. 1 Transplanter, same as above, 14" handle, each, \$.90.

No. 2 Hoes (Saw Steel Blades).
5" wide, 54" handle, Each \$.90
5" wide, 18" handle, Each .75
6" wide, 54" handle, Each 1.00
6" wide, 18" handle, Each 1.00
8" wide, 54" handle, Each 1.10
10" wide, 54" handle, Each 1.50

No. 3 Pick Ax—Spring steel. Regular pick handle, each.....\$1.40

No. 4 Two Point Hoe—54" handle, and 18" handle, each.....\$1.00

No. 5 Rake—Light, spring steel. End sharpened for scraper. Nothing like it for poultrymen and gardeners. 12 tooth, \$1.00; 14 tooth, \$1.20; 16 tooth, \$1.35; 18 tooth, \$1.50.

No. 6 Potato and Cultivator Hoe—54" handle.....\$1.25

No. 7 Pick Ax (See Cut)—Spring steel regular pick handle. Each.....\$1.50

No. 8 Comb Hoe and Rake—54" handle, \$1.25.

Bullock Rotary Junior Cultivator—This is a cultivator with a kick, goes deep into the soil, gets the weeds, brings moisture to the surface and makes the plants grow. It is a one wheel tool not reversible, cut five inches wide and three to four inches deep. Just the thing to work among shrubs and flowers whether in rows or not. Price, each, \$5.00.

Bullock's
Rotary
Junior
Cultivator

L. D. R. Dandelion Lawn Rake
Price, Each, \$1.25

No. 25 Portable Sprinkler

BROWN'S
Adjustable and Variable
Whirling Showers
LAWN SPRINKLER

Whirling Shower Lawn Sprinkler.
Price, \$2.75 each.

No. 97 Sprinkling Stand—

No. 25 PORTABLE SPRINKLER

A Durable, Efficient, Low Priced Sprinkler System

Each Sprinkler has an adjustable brass head whereby the distribution of water can be easily regulated. The base designed to slide easily over the lawn and not tip.

Packed three to a Set—One Sprinkler equipped with brass shut-off cap. Price per set of three \$1.75.

GARDEN HOSE

U. S. Nogue. Made especially for us of extra heavy rubber by one of the largest manufacturers. It is the best hose that money can buy and will last for years if taken care of. ¾", with couplings, 25 ft., \$2.75; 50 ft., \$5.00.

U. S. Delta—Red covered, excellent grade ¾", with couplings, 25 ft., \$3.00; 50 ft. lengths, \$5.50.

Let us assist in making your "Outdoor Living Room" the entrancing nook of your dreams. (See page 1.)

Instantly attached or detached. Holds hose firmly at any elevation. Light in weight. Will sprinkle small portions of garden or lawn not reached by sprayed. Each, 80c.

RAIN KING SPRINKLER

This is one of the best. It throws a fine mist and can be regulated to cover large or small area. Price, each, \$3.75.

Lawn Sprinkler No. 10—Stationary. 6 in. long. Brass, indestructible. Each, \$1.00.

"U.S."
1931
IMPROVED
HOSE

READY SHOWERS

This Lawn Sprinkler is not of the revolving type, but is stationary. It is made with a malleable iron base, a perforated brass top and brass hose connections. This is an entirely adequate Sprinkler for sprinkling small lawns where a revolving sprinkler is not desired or required. Packed weight, 4 pounds. Price, \$1.00.

LAWN MOWERS

These machines are guaranteed for quality, durability, and the perfection of working parts and to be of the very highest class in their respective price grades.

	Size	Price	Grass Catcher
"Berkley"	14-inch cut	\$11.50	\$1.50
"Speedy"	14-inch cut	12.50	
No. 255	16-inch cut	13.50	1.75
No. 505	16-inch cut	14.50	1.75
No. 655	16-inch cut	19.00	1.75
No. 905	18-inch cut	22.00	1.75

De Luxe
Bird
Bath

DE LUXE BIRD BATH

Attractive for lawn and garden, is of heavy copper-bearing galvanized steel painted natural cement color. Top: 17 in. diameter, 3 in. deep. Bottom: 14 in. diameter, 2 1/4 in. high. Column: 20 in. high, 3 in. diameter. Water lead: 1/4 in. heavy iron pipe with fittings. Height overall: 25 1/2 in. Packed one in strong fibre carton, shipping weight, 12 lbs. Price, \$5.00 each.

PLANT TUBS

Wooden stave iron bound tubs, natural color, equipped with metal handles.

14 inches diameter, each	\$1.25
20 inches diameter, each	1.50

Japanese Tubs—Heavy staves bound with bamboo hoops. 12-inch, 75c each.

Bird's IMPROVED NEPONSET Flower Pots

Made of a tough, waterproof paper that retains moisture very satisfactorily. Testing under actual growing conditions has proven that this container may be used successfully when seedling plants are grown therein from 6 to 8 weeks.

	Doz.	Per 100	Per 1000	Wt. of 1000 pots about
2 1/4 -in. pots	.15	\$ 1.00	\$ 7.00	17 lbs.
3 -in. pots	.18	1.15	8.80	23 lbs.
4 -in. pots	.25	1.60	12.50	46 lbs.
5 -in. pots	.30	2.50	19.50	80 lbs.
6 -in. pots	.45	3.00	25.50	110 lbs.

CLAY FLOWER POTS

Prices are f.o.b. our store. Packed for shipping add 20 per cent. Minimum packing charge 50 cents. While we take every precaution to pack pots so that they will arrive at destination safely we do not guarantee against breakage in transit and will not replace any pots that are broken on arrival. We advise against shipping by parcel post.

Size	Each	Per Doz.	Per 100
2 1/2 -inch Standard	.05	\$.45	\$ 2.50
3 -inch Standard	.05	.50	3.00
4 -inch Standard and Bulb	.07	.60	4.00
5 -inch Standard and Bulb	.10	.85	6.00
6 -inch Standard and Bulb	.15	1.25	8.00
7 -inch Standard	.25	2.00	13.00
8 -inch Standard	.35	3.30	23.00
10 -inch Standard	.60	6.00	45.00
12 -inch Standard	1.00	11.00	

If saucers are desired add 50% extra to above prices.

WATERING POTS

American Style—Heavy galvanized round cans. 6-qt., \$1.00 each; 8-qt., \$1.25 each; 12-qt., \$1.50 each.

French Style—Two copper-faced roses, one fine, one coarse with each pot. Attractive oval shape, see cut.

2-qt. size, beautifully decorated, \$1.75 each; 6-qt. size, \$4.25 each; 8-qt., \$5.00; 10-qt., \$6.00 each.

WIRE HANGING BASKETS

Made of heavy wire painted green with three supporting wires and a hook at top to hang it by.

	Each	Doz.
8-inch diameter	.35	\$3.50
10-inch diameter	.40	4.00
12-inch diameter	.50	5.00
14-inch diameter	.60	6.00
16-inch diameter	.70	7.00

BROWN'S PNEUMATIC DOOR CHECK

Especially adapted for use on screen doors, storm doors, light store doors, office doors and all doors of medium weight. As the heavy steel spring closes the door, the air cushion gradually diminishes, the door slowly escaping through these holes. Keeps the door closed tightly against flies, mosquitoes and other insects. Shipping weight, 2 lbs. Price, \$1.25 each.

THE WAKE-O—Temperature Alarm

Danger Signal for Incubators and Brooders.

"Check and double check" and sleep nights. A safeguard against overheating and chilling the chicks or eggs. The Wake-O Automatic Alarm should be on every brooder and incubator, it saves its cost many times in one season. It gives a continuous signal when the temperature rises or drops beyond the point at which the controlling contacts are set. It is accurate and absolutely dependable and once the contact screws are set the device requires no further adjustment. Price, \$5.00.

Germaco
Hotkaps
New Method of
Plant Protection

HIGHER PRICES FOR YOUR CROP

Last year thousands of growers added to the value of their vine crops by using HOTKAPS—shown above. This remarkable invention consists of a scientifically constructed wax paper cone that you place over each plant. Thus they are miniature hot-bouses that protect plants from frost, wind, rain, insects and ground crustings.

HOTCAPS not only protect plants, but make them grow barded and faster. Thus you get a greater crop production earlier for higher prices.

You can add to your next year's profit with Hotkaps. They cost but a fraction over a penny each.

One man can "set" 3000 Hotkaps per day. They not only bring you bigger prices, but are a method of crop insurance—against the danger of the elements. Prices—\$1.50 per 100; \$3.00 per 250; \$9.00 per 1000; \$42.50 for 5000; \$80.00 per 10,000. "Hotkap" Setter \$2.50 each. "Hotkap" Garden Setter, 50 each.

GRAFTING WAX

Excellent to apply to young trees and shrubs that have been barked. It is put on easily and quickly, and will remain there and prevent decay until the wound is covered with new bark. Price— $\frac{1}{4}$ lb., 20c; $\frac{1}{2}$ lb., 30c; lb., 50c. Postage extra.

POT AND TREE LABELS

	Per 12	100	1000
Pot Labels, 4-in., plain, 1000 in box.....	\$.10	\$.35	\$2.75
Pot Labels, 6-in., plain, 1000 in box.....	.15	.50	3.50
Pot Labels, 10-in., plain, 500 in box	.25	1.10	8.50
Tree Labels, copper wired, plain.....	.10	.45	3.00

PLANT STAKES

Green Bamboo Stakes—For supporting tall plants—
3 ft. long.....12 for 35c; 100 for \$1.50; 250 for \$2.75
2 $\frac{1}{2}$ ft. long 12 for 30c; 100 for \$1.25; 250 for \$2.25
2 ft. long.....12 for 25c; 100 for \$1.00; 250 for \$2.00

Dahlia Stakes—5 ft. x 1 in. x 1 in. pointed, painted green. Each, 18c; dozen, \$1.80; per 100.....\$13.50

Bamboo, heavy, dyed green, for dahlias and roses—
 $\frac{1}{2}$ inch. diam.; 4 ft. long; dozen, 75c; per 100, \$6.00
 $\frac{3}{4}$ to 1 inch. diam.; 6 ft. long, dozen, 85c; 100, \$6.75

RAFFIA

Natural, in skeins weighing from 1 $\frac{1}{2}$ to 2 $\frac{1}{2}$ lbs.; excellent for tying up plants, grafts, etc.; in original skeins. Per lb., 45c; less original skeins, per lb., 50c.

PLANT URNS

Made of Cement Concrete—Molded to last a life time. Very attractive designs and convenient sizes. Write for details and prices.

REDWOOD FLOWER BOXES

The material used in making these boxes is genuine redwood. The following sizes are carried in stock, prices f.o.b. Salt Lake City:
No. 4 Length 2 ft., Depth 8 in., width 8 in., each.....\$1.25
No. 5 Length 3 ft., Depth, 8 in., width, 8 in., each..... 1.75
No. 6 Length 4 ft., Depth, 8 in., width, 8 in., each..... 2.25

P.-W.'s METAL FLOWER BOXES

These are made of the best grade of metal with neat, round corners and a full roll rim. We consider these boxes the best value on the market today of the self-watering type.

Sizes and prices as follows:

No. 1, 9 in. high by 7 $\frac{1}{2}$ in. wide by 24 in. long, each.....	\$2.50
No. 2, 9 in. high by 7 $\frac{1}{2}$ in. wide by 30 in. long, each.....	3.00
No. 3, 9 in. high by 7 $\frac{1}{2}$ in. wide by 36 in. long, each.....	3.50

"HARRIS READY TO USE" PLANT BANDS AND POTS

They are the only really Read-to-Use bands on the market. There are no locks to put together, no tacks to drive, no folding of corners. All the corners are scored. They always open up square.

They are packed nicely in cartons containing a given quantity and are in order; ready-to-use. Many other makes come loose and have to be arranged in order before using.

2B Plant Bands, 2x2 in.....	\$1.25 per 250;	\$4.30 per M
3B Plant Bands, 3x3 in.....	1.50 per 250;	6.10 per M
4B Plant Bands, 4x4 in.....	2.25 per 250;	6.10 per M
2P Plant Pots, 2x2 in.....	1.50 per 250;	4.80 per M
3P Plant Pots, 3x3 in.....	2.00 per 250;	7.50 per M
4P Plant Pots, 4x4 in.....	2.50 per 250;	8.65 per M

FLORISTS' MOSS

Suitable for use in lining hanging baskets and for packing perishable plants. $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 5 lbs., \$1.15, postpaid. Not prepaid in bales of about 75 lbs., \$5.50 each.

HOLLAND PEAT LITTER FOR POULTRY

Very valuable to mix with soils especially for potted plants. It has also become of great value in poultry raising for use in bedding brooder and laying houses. One bale covers 80 sq. feet, 4 in. deep. In addition to keeping the house dry and sanitary it acts as an insulator, keeping the house warm and comfortable. It provides a clean and sanitary bedding for the hens to peck and scratch in. The first cost may seem slightly high, but its lasting qualities and general service more than compensate for the initial expense. A trial will convince you. Original bales of about 13 cu. ft., \$4.50 each; 10 bales, \$40.00. Broken bale lots \$1.00 per bag.

GRANULATED PEAT MOSS

This is of invaluable importance as a soil conditioner. It adds organic matter (humus) improves the texture, conserves moisture and aerates the soil. It is used extensively for mixing in soil for pot plants, also window boxes, and it is an excellent medium in which to grow bulbs. The rich mellow texture that it imparts to the soil with which it is incorporated puts the soil in ideal condition for the making of a lawn, a flower or vegetable garden. It is also used for mulching Perennial and Rose beds as well as around Evergreens, both the broadleaved kinds as well as the coniferous sorts. We recommend it for packing and storing bulbs, such as Cannas, Dahlias, etc. Large bales, 13 cu. ft., about 180 lbs., covers 250 sq. ft., 1 in. deep, \$5.00. Broken bale lots \$1.00 per bag.

SOILTEx

Test for acid soil with SoilTex (a new, quick, easy and accurate soil testing method. Each outfit will make 75 to 10 tests. Full directions, color chart and lime table included. Pocket-size Soil Testing Outfit, with color chart and lime table, postpaid, 60c.

No. 136 IMPERIAL LAWN EDGE TRIMMER

For the man who takes pride in his home and lawn. Trims off the rough straggling grass that overhangs sidewalk and curb, also provides quick drainage for sidewalks. Delivers the cutting on the walk to be shoveled up. Each, \$1.75.

P.-W.'s Metal Flower Box

HUDSON CULTIVATOR No. 212

No. 212 may be used as a double wheel hoe plow, or cultivator astride the row during early cultivation, and as a single wheel cultivator between the rows later. The angle steel arch is high enough to permit straddling until the plants are well grown. Shipping weight 37 lbs. Each, \$12.50.

HUDSON GARDEN PLOW No. 340

This high wheel plow is a favorite. Frame is steel with adjustments for varying the pitch of the tools. Wheel is 24 inches high with 1 1/4 inch tire, insuring easy running. Shipping weight 21 lbs., Each, \$4.75.

Hudson Garden Plow No. 340

HUDSON GARDEN CULTIVATOR No. 228

No. 228—Single wheel cultivator, light enough for child or woman, yet sturdy enough for a man. Equipment consists of a pair of hilling plows, pair of surface hoes, four cultivating teeth and a vineguard. Shipping weight, 25 lbs. Price, \$8.00.

**Protect
Chicks &
Plants with**

CEL-O-GLASS

At last an unbreakable material that is neither glass nor wire cloth, yet combined the transparency of glass with the toughness of metal. Extremely light in weight, weatherproof, flexible and durable. CEL-O-GLASS is admirably suited for chicken house fronts and windows; cold-frames and hotbeds ash; greenhouse sides, fronts and partitions. Put up in rolls 3 feet wide up to 100 feet long. Price—50c per running foot. 10 feet, \$4.50; per roll of 100 feet, \$40.00.

Cleveland Lawn Weeder

HUDSON SEEDER AND CULTIVATOR No. 203

No. 203 — (See cut above). It is ideal for the gardener whose requirements do not justify separate machines for seeding and cultivating, being equipped for use as hill and drill seeder, or wheel hoe plow or cultivator. Changed from one to the other are made quickly and easily. Cultivating tools are high grade steel; all shanks are malleable and unbreakable. Weeding hoes and hilling plow have polished and lacquered surfaces and sharpened cutting edges. Wheel is 16 inches high, with 1 1/4 inch tire. Handles are seasoned hardwood adjustable in height. Weight 56 lbs.; Each, \$18.75.

CYCLONE SEED SOWER

A good large sower that meets the most exacting demands. Hangs by a strap over shoulders of operator. Hopper-sack has a capacity of 1/2 bushel. Broadcasts evenly all varieties of grain and grasses. Weight, 4 lbs.

Price—Each, \$2.50. If by mail add 25c extra for postage.

Glass Cloth or Suintex

Glass Cloth is a strong fabric treated by a patented process to make it transparent, weather-proof and water-proof. It costs much less than glass and for many purposes is superior. Anyone can put it up. It admits abundant light which is diffused and scatters to all parts of the enclosure. It comes in rolls 36 inches wide and any length. Yard, 40c; 10 yds., \$3.75; 15 yds., \$5.00; per roll of 100 yds., \$28.00.

Cleveland Lawn Weeder

No more broken backs. This device gets at the root of the evil and removes it bodily.

The curved edge of the blade enters and loosens the soil, pressure on the lever then causes the toothed jaw to grasp the plant, and a slight pull suffices to dislodge it without disturbing the surrounding sod. Price each \$1.00.

SPRAY PUMPS—FOR EVERY PURPOSE

All Sprayers are quoted F. O. B. Salt Lake City, unless otherwise noted.

Brown's
Reliance

BROWN'S RELIANCE

This is a sturdy wheelbarrow sprayer for use in spraying whitewash, kalsomine and cold water paints. It is also an excellent sprayer for field crops, garden truck, vineyard and general spraying. This machine consists of 15 gallon corrugated galvanized steel sheet bucket, truck frame and wheel. Due to the large capacity air chamber of the pump, this machine will spray approximately twice as long as the ordinary sprayer after pumping has ceased. Shipping weight 83 pounds. Price, \$28.00

BROWN'S NO. 9

Brown's No. 9

can be built into a compressed air sprayer. This full 4-gallon size machine can be used anywhere that a compressed air sprayer is required. Shipping weight, 10 lbs. No. 9-B, with 4-gal. brass tank, each.....\$11.00 No. 9-D, with 4-gal. galvanized tank, each..... 7.40

BROWN'S BRONCO

This is an economical compressed air sprayer of 3% gallons capacity; made of heavy copper bearing galvanized steel sheet with pressed locking cap. Equipped with 18 in. brass extension rod, carrying strap and shut-off nozzle. Weight 10 lbs. Each, \$4.75.

BROWN'S NO. 5

The No. 5 is a double acting, continuous spraying, high pressure pump made entirely of brass. The small diameter of the pump cylinder enables this pump to generate a pressure of over 200 pounds, requiring very little effort to operate. It is adapted for spraying orchards, field crops, vines, shrubs, whitewash and nearly any kind of solution. Strainer pipe is weighted and has screen for straining solution. Pump is easily dismantled and valves are accessible for cleaning. It may be used with bucket or knapsack same as "Standard Sprayer." Shipping weight 4 pounds. Price, \$5.00.

SCOLLY'S RUBBER PLANT SPRINKLER

Mist spray suitable for house plants indoors; shipping weight 1 pound. Price, \$1.25 each.

BROWN'S NO. 30-D

An efficient wheelbarrow sprayer with suction cup agitator. It is used for spraying all agricultural insecticides, disinfectants, whitewash and like solutions. Equipped with 12 gallon capacity, galvanized steel tank, pump, truck frame, 2 foot, 8 inch iron Extension. Shipping weight, 47 lbs. Each, \$17.50.

Brown's
Mighty

BROWN'S MIGHTY

A fifteen gallon wheelbarrow sprayer which consists of durably constructed corrugated bucket, heavy duty pump, high pressure air tank, pressure gauge, truck frame and 18 inch wheel. The pump is equipped with a heavy paddle agitator which keeps the solution thoroughly mixed. The sturdy air storage tank is guaranteed for 250 pounds pressure and will spray for a considerable length of time after pressure has been pumped up. An unexcelled sprayer for use in spraying orchards, field crops, garden truck, vineyards, lawns, and all general spraying. Shipping weight 112 lbs. Price, \$40.00 each.

BROWN'S NO. 50

There is a constantly increasing demand for a smaller than 4-gallon compressed air sprayer. This sprayer of 2 1/2-gallon capacity is recommended where a compressed air sprayer is required and the spraying is not extensive. On account of its being smaller and lighter in weight is most desirable when used by women or children. It is a most convenient size for use in a greenhouse. As time goes on this size compressed air sprayer increases in demand. Brown's No. 50 has all of the mechanical advantages that are incorporated in No. 9. Shipping weight 7 pounds.

Brown's No. 50

No. 50-D, galvanized tank, each.....\$6.00 No. 50-B, brass tank, each..... 9.00

STANDARD SPRAYER

Can be used with bucket, knapsack, tank or barrel for spraying orchards, gardens, vineyards, whitewashing, disinfecting chicken houses, killing vermin on stock. Made entirely of brass. Nothing to get out of order.

Knapsack

For pump and nozzle, price \$5.00; weight 4 lbs. For knapsack, price \$3.50; weight 5 1/2 lbs., Extension rod, price \$1.25; Veterinary Nozzle, 75c.

THE SIREN TANK

A well built 5 gallon knapsack tank made of heavy copper bearing galvanized steel shee. It is equipped with a heavy brass screen for straining solution. Brackets on tank top provide a place for pump when not in use. Especially designed for use with No. 5 Pump in spraying orchards, vineyards, field crops, garden truck and has many varied uses. Shipping weight, 7 lbs. Price, \$5.15 each.

AUTO POP SHUT-OFF NOZZLE

Made entirely of brass. Adjustable and suitable for use on all compressed air machines, shown in cut "Compressed Air Sprayer." Handles all solutions. Flitted with 3/4 inch pipe thread so extended rod can be added. Price, \$1.55 each.

BORDEAUX WHITEWASH NOZZLE

No. 71—For spraying, whitewashing or cold water painting. Adjustable to regulate the quantity of liquid used. Throws a wide flat spray, and can be graduated from a fine mist to a solid stream, or shut off completely. Made entirely of brass. Threaded 3/4 inch standard pipe. Price, 85c each.

Brown's No. 60

all solid brass, weight 9 lbs., price complete, each, \$7.00.

BROWN'S CONTINUOUS ATOMIZERS

No. 26 A. G.
No. 26 A. B. and C.
are same type and size
as cut shown.

- No. 26A—1-qt., tin pump, tin tank. Each, \$1.00.
No. 26B—1-qt., tin pump, brass tank. Each, \$1.50.
No. 26C—1-qt., brass pump, bronze tank. Each, \$1.80.
No. 26AG—1-qt., tin pump, glass tank. Each, \$1.20.

BROWN'S WHIRL-WIND SPRAYER

This is a single action atomizer, heavy tin container, quart size, length of pump, 12 in., weight, 2 lbs. Each, 50c.

HUDSON HOUSEHOLD SPRAYER (F2)

Hudson Household Sprayer

BROWN'S GEM

This is a single action atomizer built with a heavy lithographed pump cylinder and strong tin plate container. It handles all house fly oils, disinfectants, insecticides, and moth sprays. It is just the thing for use around the house. Diameter of pump cylinder, 1 1/4-in., length, 8-in. Wt., 3/4-lb. Each, 40c.

Brown's Gem

DUSTER BROWN No. 2C

With a small quart duster, such as the No. 2-C, quite a good size garden can be conveniently dusted. The extension on this duster makes it very satisfactory for all types of dusting and particularly for dusting underside of leaves. Weight, 1 1/4 lbs. Each, \$1.25.

DUSTER BROWN No. 1

A small capacity duster ideal for use in the garden, in the home, etc., and is especially useful in dusting insecticides and roach powders. Weight, 3/4-lb.; each, 55c.

BROWN'S HEAVY DUTY BARREL PUMP

A serviceable, heavy duty pump of solid, durable construction. Because of the adjustable barrel clamp this pump can be used with any sized barrel. The outfit can be mounted on wagon or stone-boat for spraying orchards, vineyards, field crops or garden truck and because of the heavy agitator is an ideal machine for spraying whitewash, cold water paint and kalsomine.

This pump will maintain a continuous pressure of 300 pounds and has ample capacity for two lines of hose.

Equipment consists of stop cock and spray nozzle 12 1/2 ft. 3/4-in hose with coupling, extension pipe, iron. 2-ft. 8-in. in length. Weight, complete, 34 lbs. Price, \$14.75 each.

Brown's Heavy Duty

THE CALIFORNIA BEAUTY DUSTER

The bellows action is so rapid as to give an almost continuous flow of dust and still completely under control at all times. Ideal for row crops, such as Peas, Beans, Cabbage, Cauliflower, etc. It weighs less than ten pounds and holds twelve pounds of dust. Throws cloud of dust twelve feet. Price, \$13.50 each.

BROWN'S ATOMIST LACQUER SPRAYER

This is a highly efficient continuous spraying, designed for spraying lacquers, bronzing liquids, thin paints, floor oils, moth spray, wall sizing, and has many other uses. It is used extensively for refinishing furniture, for creating shaded effects, for spraying porch furniture, for touching up automobiles and for any general quick touch up work. Due to its ease of operation and fine adjustment, it will do work equal to any power unit. Every household or automobile owner should have one. Wt., 2 1/2 lbs. Each, \$1.75.

BROWN'S TWIN BLAST SPRAYER

Equipped with twin spray jets Glass tank. 1 qt. Capacity. Each, 75c.

Diameter of pump, 1 1/4-in., length, 18 in. Weight, 2 lbs.

BROWN'S CRYSTAL DUSTER

The Crystal Duster is a new type with glass jar container. The volume of dust expelled is controlled by the force used in pumping. This duster is especially good for use in orchards, garden truck, field crops, poultry houses and is especially recommended for use with Cyanogas. It may also be used in applying Soot Remover to dirty flues, and for dusting newly finished walls with silver and gold powders. Shipping weight, 2 1/2 lbs. Each, \$1.35.

PEST AND DISEASE KILLERS

Poisons Are Not Admitted to the Mails, so are shipped by Express or Freight only. On all other items not quoted at postpaid prices, see Zone Rates for amount to remit for postage.

Antrol

The Antrol system is adapted to any size house or garden, and quickly destroys all species of sweet-eating ants. It is composed of small glass containers partially filled with syrup, and placed about the outside edges of the house or along ant "trails" in the garden. Prices—Antrol sets of 4 containers and 1 4-oz. bottle of syrup, 95c; extra containers (each), 15c; syrup, 4-oz. bottles, 45c; pints, 95c; gals., \$3.75.

Flyrol

Destroys Flies, Moths, Mosquitoes, Roaches, Bedbugs, Beetles, Silverfish, Fleas, Chicken Lice, Mites and their eggs. Flyrol sprayed thoroughly within the house, in a sanitary measure insuring against contagion. It is 100% active and non-poisonous. Will not stain. Easy to use. No unpleasant odor. A few minutes, and the work is done. Use Flyrol freely during spring and summer months. Pint, 55c each; qt., \$1.00; gal., \$2.75; 5 gallons, \$12.50.

Snarol

Snarol

Snarol is a boon to the gardener. It quickly destroys these garden pests. Just sprinkle Snarol around and under newly planted vegetation. Insure it against destruction. Kills snails, slugs, worms, sow bugs, earwigs, and grasshoppers. 1 lb., 40c; 3 lbs., 85c.

"Black Leaf No. 40"

Nicotine Sulphate—40 per cent Nicotine—In addition to its effectiveness in killing Garden Pests, "Black Leaf 40" is pure death to poultry lice and mite. Write for details. You cannot go wrong by ordering "Black Leaf 40" for sucking insects. Prices: 1 oz., 35c; ½ lb., \$1.25; 1 lb., \$2.50; 2 lbs., \$3.25; 5 lbs., \$7.00; 10 lbs., \$11.85; 1 oz. makes 6 gallons; ½ lb., 40 to 60 gallons.

Carco

For Root Maggots—Use 1 before planting. For cut worm, grubs, and other worms—dilute one part CARCO to 125 parts water and apply freely, preferably in the late afternoon. Important—Use a coarse spray, always. Price—½ pint, 50c; pint, 75c; quart, \$1.25; gallon, \$2.75.

Bluestone

Bluestone (or Copper Sulphate)—Used in preparing home-made Bordeaux Mixture. 1 lb., 25c; 5 lbs., \$1.00.

Copper Carbonate Dust

Cupro-Jabonite (Copper Carbonate—18-20%).—During the last two or three seasons reports from experimental stations have shown that the use of the 18% to 20% Carbonate is equally as efficient as where the stronger grade is used; proven quite as beneficial and is available at a much less cost than the Pure Copper Carbonate. Lb., 30c; 5 lbs., \$1.25. Write for quantity prices.

Cow Ease (Fly Driver)

It is liquid preparation from non-poisonous materials, and will not gum the hair or blister the skin. A herd of milch cows sprayed regularly through the fly season will yield on the average of 10 to 20 per cent more milk. Price—Quart, 60c; weight, 4 lbs.; ½ gallon, weight 8 lbs., \$1.00; gallon, weight 15 lbs., \$1.80.

Kellogg's Ant Paste

"Rattle Cap"—A very effective remedy for control of ants affording a quick, temporary relief. 25c per bottle.

Dusting Sulphur

The most common fungus diseases that annoy the gardener and orchardist are Early Blight on potatoes, Scab on apples and pears, and Brown Rot on Peaches. Dusting Sulphur is good for all these and can be used by itself or in combination with Arsenate of Lead, mixing the two in equal proportions. Price—1 lb., 20c; 5 lbs., 65c; 10 lbs., \$1.10; 100 lbs., \$7.50.

Nico Dust No. 6

Six per cent Nicotine. Especially prepared for garden pests. 1 lb., 45c; 5 lbs., \$1.60; 25 lbs., \$5.25; 50 lbs., \$9.50; 100 lbs., \$18.00.

Nico Dust No. 10

Similar to No. 6 but containing 10% nicotine. 5 lbs., \$2.00; 25 lbs., \$6.75; 50 lbs., \$13.00.

Paradow

(For Peach Borer Control)

This is an unadulterated Compound of Paradichlorbenzine which is recommended in Farmers' Bulletin 1246, U. S. Dept. of Agriculture for the control of Peach Borer. Fall application is more desirable but it can be attended to in the spring. Use 1 oz. per tree on those of 6 years or older. Full directions with each order. 1 lb. can, \$1.00; 5 lbs., \$3.00.

Sodium Chlorate

The use of this chemical as a weed destroyer has been very effective; the one drawback is the injury to the soil where it has been used sufficiently strong to kill White Top and Wild Morning Glory. By using Sodium Chlorate in conjunction with "K-M-G" all soil damage is eliminated and the weed destroying effectiveness is greatly enhanced. 25c per lb., 10 lbs., \$2.00; 50 lbs., \$9.50; 100 lbs., \$17.50.

Tobacco Dust

When dusted over young plants, it is very efficient in repelling many kinds of bugs and in keeping the foliage from Aphids and Lice. Price—½ lb., 15c; lb., 20c; 10 lbs., \$1.25; 100 lbs., \$7.50.

Volck

A very meritorious new insecticide, the best remedy we know about for mealy bug which has hitherto been beyond control. It is effective, also, against Cyclamen Mite, Thrips, Red Spider, Aphids, White Fly, Rose Mildew and Scale Insects. Dilute one part "Volck" to 32 parts water for general use. Price—½ pint, 50c; pint, 75c; qt., \$1.00; gallon, \$3.00; 5 gal., \$12.00; 14 gal. drum, \$25.00; 28 gal. drum, \$40.00.

Weed Killers

There is nothing more annoying to the well-kept home grounds than weeds constantly coming up in the roadways, paths and gutters. This weed killer may be applied by means of a sprinkling apparatus of any kind.

K-M-G Weedicide—Very effective. Price, \$2.75 per gallon. Dilute with 10-25 parts of water.

Sodium Arsenite—Powerful destroying agent. Dilute with 30-150 parts of water according to toughness of the weed to be killed. Price: \$2.50 per gallon.

Spray Soap

Fish Oil—Dissolve 2 ounces for soap to 1 gallon of water for all small fruit. For large fruit trees, shade trees, etc., use 3 ounces for soap per gallon. Very effective as a spreader for "Black Leaf 40," Nico-Fume, Liquid, etc. ½ lb., 20c; lb., 35c; 5 lbs., \$1.50.

Revenge

A most effective powder for head lice and other vermin on Poultry, Hogs, Dogs, Cattle and Horses. "Revenge" gets them when other remedies fail. Apply direct as well as sprinkle in runs and hedging places. 1 ½ lb. pkg., 65c; 3 lbs., \$1.00; 6 lbs., \$1.75; 50-lb. pall, \$6.25.

Health Paint

Health Paint is a white paint and a powerful disinfectant in powder form. Ready to use when mixed with water. Easily and quickly applied to wood, brick, stone, cement, etc., and over whitewash. One pound will cover 100 square feet.

Low in cost and an excellent disinfectant white paint. 5 lb., pkg., 85c; 10 lbs., \$1.50; 25 lbs., \$3.50; 50 lbs., \$6.00; 100 lbs., \$11.00.

Evergreen Spray

Effective against most other plant pests, including Cucumber and Melon Beetles, Cabbage Worms, Rose Slugs, Leaf Hoppers, Currant Worms, etc. Kills only insects—harmless to man, live stock, birds and pets.

Won't injure the ground. Just mix with water and stir. No unpleasant odor. No had effect on metal or rubber. Stays in solution and can't clog sprayers. Prices—1 ½ oz., 35c; 6 oz., \$1.00; 16 oz., \$2.00; 32 oz., \$3.50; 1 gal. \$13.00.

PEST AND DISEASE KILLERS—Continued

Prices Subject to Change—All f.o.b. Salt Lake City except where otherwise noted.

Garden Guard

No sprayers, No Water, No Mixing. Dust on plants from sifter top carton or through burlap sack. The Bordeaux Mixture in Garden Guard acts, in a measure, as a fungicide. Prices—1 lb. sifter carton, 25c; 5 lb. paper bag, 75c.

2-Way Spray

Contains 15% Arsenate of Lead and 85% Bordeaux Mixture—2 results with one spray. Controls insects. Combats Blight, Stimulates Foliage.

Easy to apply—wet or dry—For dusting, apply lightly, as it comes in the package. In spraying apples, grapes, and most vegetables, use $9\frac{1}{2}$ level tablespoons to 1 gallon of water. On pears, sour cherries, egg plant and peppers, use 7 level tablespoons to 1 gallon of water.

Prices— $\frac{1}{2}$ -lb. carton, 25c; 1-lb. carton, 45c; 4-lb. paper bag, \$1.00.

Arsenate of Lead

Arsenate of Lead is recommended to control all leaf-eating insects on trees, shrubs, flower and vegetable plants.

When dusting fruit, add 5 parts by-dried lime. Vegetables 8 parts lime. One-half lb. carton, 25c; 1-lb. carton, 45c; 4-lb. bag, \$1.00. Write for quantity prices.

Acme All Round Spray

"Acme All Round Spray" is composed of nicotine sulphate, arsenate of lead and bordeaux mixture, scientifically combined, and recognized by leading authorities as the proper combinations for controlling chewing and sucking insects, and blight and fungus diseases all in one application. Price— $\frac{1}{4}$ lb. size, 75c; 1 lb., 95c each.

Paris Green

Always uniform, fluffy and free running. Used dry will not clog the dusting machinery.

For potato hogs, use from $\frac{1}{2}$ to $\frac{3}{4}$ of a level tablespoon to 1 gallon of water. Apply as a dust on cotton, using 1 part Paris Green, 1 part flour, 5 parts lime. On tobacco, use as a dust alone or mixed with Arsenate of Lead.

Prices—1 lb. carton, 20c; 1 lb. cartons, 50c; 4 lb. cartons, \$1.75.

Bordeaux Mixture

Prevents large losses caused by blight, rot, mildew, scab, anthracnose, and certain other fungous diseases, will stimulate plant growth and greatly increase the harvest.

Prices—1-lb. carton, 45c; 4-lb. paper bags, \$1.40.

CYANOGAS

REG. U.S. PAT. OFF.

Cyanogas or Calcium Cyanide is a most valuable insecticide as well as rodent destroyer. Cyanogas is used for the control of ants, grape-leaf boppers, fleas, chinch bugs, grasshoppers in hatching beds, squash bugs, and many other insect pests, as well as rats, gophers and other rodents. It is also used for the fumigation of greenhouses and huls.

Cyanogas "A" Dust—1 lb., 75c; 5 lbs., \$2.65; 25 lbs., \$9.50. Cyanogas "G" Dust—(For Greenhouse)—1 lb., 85c; 5 lbs., \$3.50; 25 lbs., \$12.50.

Lime Sulphur

For dormant spraying in the fall or early spring against Scale, Peach Blight, Leaf Curl and Twig Borer, use 9 to 11 tablespoons to 1 gallon of water.

For summer spraying against Scab, Soot and Blotch, Red Spider and Mites, use from $2\frac{1}{2}$ to 3 level tablespoons to 1 gallon of water. 1-lb. can, 35c; 5-lb. can, \$1.25; 10-lb. can, \$2.00.

K-M-G Dandelion Killer

The old-fashioned, inefficient and back-breaking grief of "grubbing" to get rid of dandelions is gone forever, and K-M-G Dandelion Killer is responsible. A drop or two of this remarkable new preparation in the center of a dandelion plant (not the flower) kills it completely and permanently. Results that are miraculous. Rid your lawn of this obnoxious pest—get a bottle today—it makes dandelions "curl up and die" and STAY DEAD! One bottle will clean up an average size lawn. Price, 60c each.

K-M-G MORNING GLORY KILLER

The root of the Wild Morning Glory plant is often fifteen feet or more in length. For this reason, it is next to impossible to eradicate it by cultivating.

The one satisfactory way to eradicate Wild Morning Glory, Canadian Thistle, etc., is to kill the root. And that is exactly what K-M-G does. Applied as a liquid spray to the leaves and stems, it is absorbed and distributed throughout the entire root system—killing the entire plant. One or two sprayings solve the Wild Morning Glory problem permanently. Wild Morning Glory treated with K-M-G is dead—dead beyond any chance of resurrection.

An area 35x30 feet requires 1 gallon of K-M-G. An acre of solid Morning Glory requires from 20 to 40 gallons of K-M-G. Mix 1 part K-M-G to 16 of water.

Price—1 gallon, \$3.00; 5 gal. drum, \$12.25; 10 gal., \$17.50; 50 gal., \$75.00; 100 gal., \$145.00. All prices f.o.b. Salt Lake City.

HOW TO KILL DANDELIONS WITHOUT INJURY TO THE LAWN

Delicious Vegetables

Colorful Flowers

Velvety Lawns

FERTILIZERS AND SOIL BUILDERS

VIGORO

Specialty prepared plant food

CLEAN, ODORLESS, EASY TO APPLY

Enjoy Better Lawns, Flowers and Gardens by Using Vigoro

There is no secret in having a velvety lawn, colorful flowers, crisp, succulent vegetables, luxuriant shrubbery, and stately trees.

You can enjoy these beauties of nature if you use good seed, plants, bulbs, and the right plantfood. The right plantfood is important because plants must be fed the same as human beings.

VIGORO provides an economical, practical, and effective way to secure finest results. Economical because the cost is only 10 to 20c for every 100 square feet. Practical because it is clean, odorless, easy to apply—can be sown by hand like grass seed or applied with an ordinary kitchen colander. Effective because it contains all of the elements of plantfood required to produce early, vigorous growth, and bring fruit, flowers, and foliage to full development.

Complete directions for applying VIGORO for all plants are contained in every bag. VIGORO should be used at the rate of four pounds per 100 square feet (10 ft. x 10 ft.) in the spring and fall. Use one-half this amount for summer feeding. Using this as a basis, the amount of VIGORO needed for large areas such as parks, large estates and cemeteries can be easily calculated.

Many years of extensive research work and actual growing tests have been devoted by Swift & Company's horticultural experts to the development of a product containing the right kind and amount of plant food necessary to produce the best flowers. As a result of that work, VIGORO, the scientifically prepared plant food, has been developed.

VIGORO is a complete plant food furnishing all the elements necessary to produce strong, hardy plants and flowers of the highest quality. When VIGORO is used, it is unnecessary to use such materials as bone meal, liquid cow manure, or sheep manure. VIGORO produces more blooms, increases the size, and improves the color of the flower, besides producing blossoms of lasting quality. Prices f.o.b. Salt Lake. 12-oz. can, 10c; 5-lb. can, 60c; 25-lb. bag, \$2.00; 50-lb. bag, \$3.75; 100-lb. bag, \$6.00.

SPECIAL NOTE—Market Gardeners and Florists will find VIGORO especially beneficial for use in Hotbeds, Greenhouses and Cold Frames. It adds surprisingly to the vigor and sturdiness of young seedlings.

VIGORO SPREADER

Spread 100 pounds of VIGORO evenly in 15 minutes. The Vigoro Spreader is simple to operate. Saves time, effort and plant food. Can be set mechanically to give either a 4-pound or 2-pound application per 100 square feet. Also applies grass seed, sand, salt and other materials equally well. Price—Junior Size, \$9.75; Regular Size, \$15.00.

SWIFTS' RED STEER BRAND FERTILIZER

This is a scientifically compounded fertilizer, according to definite specific formulas designed for special orchard, garden and farm crops. The formulas represent proportionate content of Ammonia, Phosphoric Acid and Potash in the order named. The two that meet the average soil conditions in the Salt Lake Valley for the crops specified we list below, we are prepared to furnish any special mixture desired to meet definite crop and soil requirements. We solicit your correspondence. Let our Fertilizer Experts assist in your problems. Prices quoted are f.o.b. Salt Lake and subject to market changes

Red Steer Formula 3-10-10—For apples, cherries and truck garden crops. Use 800 to 1000 lbs. per acre. Price—\$64.00 per ton; per bag of 125 lbs., \$4.40.

Red Steer Formula 5-7-8—For strawberries, small fruits. This formula has been found to be most efficient by large strawberry growers in the northwest and works equally well here in Utah. Use 800 to 1000 lbs. per acre. Price—per ton, \$65.50; per bag of 125 lbs., \$4.50.

FREE FALL CATALOG
On Bulbs, Seeds, Shrubs, Trees, Etc. Ready About Middle of August—Ask for Free Copy.

Our Dutch Bulbs such as Hyacinth, Tulips, Crocus, etc., come to us in car load lots direct from the best Holland growers. In variety, quantity, quality and price, no better service can be had in America than we offer. Fall catalog gives full and complete information.

OTHER GOOD FERTILIZERS

Bone Meal—A good fertilizer, should be forked in the soil in the Fall if possible. 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.

Bat Guano—A pure natural manure, excellent for mixing with soil for garden or greenhouse. One part to six parts soil. Especially rich in nitrogen and humus. 25 lbs., \$1.00; 100 lbs., \$2.75; \$48.00 per ton.

Lime, Hydrated (Finely Pulverized)—The value of lime as a soil improver is so well known that little need be said about it here. Although it possesses little fertilizing value in itself, it is indispensable for correcting acid soils, improving the mechanical condition of the soil, for grass, farm crops, etc. Broadcast 10 lbs. to 200 sq. ft. or 1 ton to the acre. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00.

Fish and Meat Meal—Very much in demand for celery, lettuce and other garden crops, 25 lbs., \$1.25; 100 lbs., \$3.75. Write for quantity prices.

All Fertilizers are quoted f.o.b. Salt Lake unless otherwise noted, if by mail add extra for postage.

INOCULATE THE EASY WAY With the Dependable

INOCULATOR

Now you don't have to use out-of-date, messy methods to treat your legume seeds. McQueen's Dust-Kote Inoculator is just dusted on the seed. Takes but a moment to do it. Sticks to seed and is a clean, handy inoculation.

Hardy, Farm Grown Bacteria

Absolutely guaranteed to give satisfactory results or your money back. This is for your protection. You are the judge of results. Simple directions for mixing Inoculator with your seed are printed on each package of McQueen's. Do it right in seeder or drill box. No water is used.

More Loads From Same Acreage

Inoculate your Alfalfa, Sweet Clover, Soybeans, Peas, Vetch, Beans and Clovers of all kinds with McQueen's guaranteed Inoculator. It increases the crop, improves its quality, enriches the soil and saves fertilizer bills.

Cost is small—order for the amount of seed you wish to treat.

For the small seeds—Clovers, Alfalfa, Sweet Clover, Lespedeza

1/2 bu. size (for 30 lbs. seed)	\$.50
1 bu. size (for 60 lbs. seed)	1.00
2 1/2 bu. size (for 150 lbs. seed)	1.75
5 bu. size (for 300 lbs. seed)	2.50

For the large seeds—Soybeans, Vetch, Peas, Austrian Peas, Cow Peas, Beans

1 bu. size (for 60 lbs. seed)	\$.50
2 bu. size (for 120 lbs. seed)	1.00
5 bu. size (for 300 lbs. seed)	1.75
10 bu. size (for 600 lbs. seed)	2.50

For the Home Garden—Garden packet (for Peas, Beans, Limas, Sweet Peas), 15c.

Always state kind of seed you wish to inoculate

RELIABLE POULTRY NET (FOR CATCHING POULTRY)

This net is made of stout cord attached to heavy galvanized wire 17 inches in diameter, securely riveted to a wood handle 51 inches in length. Users say "it's the handiest tool out for catching 'em." It is equally serviceable as a fish net for landing the "big fellows" that heretofore have been left in the lake. Price, \$1.35 each.

Reliable Poultry Net

RABBIT SUPPLIES

We carry a full line of Rabbit supplies, feed and water crocks for rabbits and other supplies. Write for special information on items of interest not found listed in this catalog.

BUNNY BARS

Balanced Rabbit Ration
"Not a Sneeze in a Sack"

These bars supply artificial sunshine (Vitamin D) by the use of Cod Liver Oil. They are a combination of the following ingredients, each of which serves a special purpose: ground grains, linseed oil meal, bone meal, cane molasses, charcoal, calcium carbonate, dried buttermilk, cod liver oil, 1 per cent salt.

Rabbit Remedies

We supply the following medicines: Cold Remedy, Anti Snuffles, Anti Pot Belly, Digestive Tablets, Anti Slobber Tablets, Anti Diarrhea, Liver Tablets, Tonic Powder, Vint Ointment, Worm Medicine.

Any of the above "specifics" at \$1.00 each, postpaid.

RABBIT FEED DISHES

Durable porcelain crocks in following sizes:

	Each	Doz.	100
Flange Top—5 1/2 -in. diameter	\$.20	\$1.80	\$15.00
Flange Top—6 1/2 -in. diameter	23	2.25	16.00
Flange Top—7 1/2 -in. diameter	28	2.55	17.00

SEMESAN DISINFECTANTS

Ask for Free Semesan Booklets

Seed disinfectant is now generally regarded as an essential requirement of profitable farming.

Semesan provides the one effective method of controlling the various damping-off diseases. It is being used with wonderful results in all sections of the country on grains, field crops, vegetables, flowers and ornamentals. Brown patch of grasses, a disease which swiftly destroys the expensive turf of gold greens, estate lawns and tennis courts, can be prevented, and, if treated soon enough, cured with Semesan.

Easily applied—little skill required—at a cost of only

1/4 c to 1 c per pound of seed. The cheapest crop protection you can buy.

Semesan Jr. is used as a dust disinfectant to control the ear, root and stalk rots of corn. In tests conducted in both Illinois and Iowa by Governments, the Federal and State

Semesan destroy "Brown Patch"

increased yields from diseased seed varying amounts up to 38%.

Semesan Bel

Applied to whole or cut seed potatoes, either as a dry powder or in liquid form, Semesan Bel will prevent or control the common seed borne potato diseases. Also very effective in treatment of Gladioli and other bulbs.

Ceresan (For Seed Grains)

Why lose part of your grain crops through smuts and other diseases? Prevent them and protect your profits by treating all seed grains with Ceresan. Only 2 ounces needed per bushel of seed wheat, rye, sorghums or millets and 3 ounces for oats and barley.

PRICES FOR SEMESAN DISINFECTANTS AS FOLLOWS:

Semesan—2 oz., 50c; 1 lb., \$2.75; 5 lbs., \$13.00.
Semesan Jr.—4 oz., 50c; 1 lb., \$1.75; 5 lbs., \$8.00.
Semesan Bel—4 oz., 50c; 1 lb., \$1.75; 5 lbs., \$8.00.
Ceresan—1 lb., 75c; 5 lbs., \$3.00; 25 lbs., \$12.50.

FIBRE BRUSHES

Strong and tough, 24 in. wide. Convenient for cleaning out poultry coops. Each, \$1.75.

WIRE BRUSHES

Just the thing for poultry houses. Strong and durable, 16 inches wide. Each, \$1.85.

Rabbit Feed Dish

Rabbit Drink Dish

RABBIT DRINK DISHES

	Each	Doz.	100
Serviceable round bottom porcelain crocks.			Seldom
break by freezing.			
Size 4 1/2 -in. diameter	\$.26	\$2.55	\$17.00
Size 5 1/2 -in. diameter	29	2.80	19.00
Size 6 -in. diameter	32	3.20	21.00

No. 5783

Tycos Incubator Thermometer

When used with Stand

When used without Stand

TYCOS CERTIFIED INCUBATOR THERMOMETER NO. T5783

Worth the slight addition in cost. Retested and certified. Makes sure, doubly sure. To the man about to "set" an expensive hatch this reassurance means much. Can be used to test other incubator thermometers. black scale and white figures, and every single degree graduation engraved directly on the glass tube, and every fifth line and figures stamped on the metal scale. Each in a box with stand and certificate.

No. T5783

Price, each, \$1.25

No. 5776 Incubator, 90c

- Incubator-Brooder Thermometer, with legs, each.....\$.90
- Brooder Thermometer, each..... .70
- Brooder Wood Mounted Thermometer, each..... 1.00
- No. 5981-Tycos Hotbed Thermometer, special construction for soil, each..... 2.50
- Hygrometers, each..... 1.75

Double Unit Wafer Thermomats for Brooders and Incubators

The double units have a solid post between them, making each wafer independent of the other, so if one wafer should become injured the other would continue to function. They are dependable and accurate and intended for coal burning brooders, oil brooders, incubators or most any place that a wafer thermostat is required. No. 297-Double Unit Wafer. Size 3 in., wt. each 4 oz. Each, 50c; 2 for 90c.

Reliable Egg Scale

EGG SCALES

Reliable

This scale grades eggs quickly, easily and exactly. Has a quick double shift, just a flip of the finger, and you can get all weights required with the one shift, thereby taking the place of two scales. It has four steel knife-edge bearings, which guarantees a correct weight and long life. Price, \$2.90 each.

Acme

Very accurate testing scale for egg grading, has 9 weight adjustments. \$3.00 each.

MEASURE THE EVAPORATION IN YOUR INCUBATOR with the MOISTURE GUIDE.

IT "SOLVES THE MOISTURE PROBLEM"

No incubator is properly equipped without a Moisture Guide as well as a thermometer. The use of above guide will insure proper moisture. Price complete, \$1.00 each.

PAPER EGG BOXES

Paper Egg Boxes—All styles, made of extra heavy card board and will carry eggs safely. Shipping weight, 2 lbs. per dozen.

Standard—3x4, dozen, 20c; 100, \$1.00; 250, \$2.00; per M, \$7.50.

Standard—2x6, dozen, 25c; 100, \$1.25; 250, \$3.00; per M, \$11.50.

High Color—2x6, doz., 35c; 100, \$1.50; 250, \$3.50; 1M, \$13.50.

NEST EGGS

Lime Nest Egg

—Preferred by many as they are unbreakable and more natural in shape and color. Price, 5c each; 40c per dozen. Wt., 2 lbs. per dozen. Postage extra.

Porcelain—Best grade, strong and durable. Each, 5c; dozen, 40c; weight, 1 1/4 lb., per dozen.

LEG BANDS

Single Coil Spiral Colored Bands—These are made of celluloid and in six different colors, black, red, green, yellow, cerise and dark blue. They can be taken off and put on very quickly and easily and will last a life-time. They are made in sizes for every breed of poultry, pigeons and baby chicks. Please state breed when ordering.

Size	25	50	100	500	1000
No. 4—Day Old Chick.....	.15	.25	.45	\$1.75	\$3.00
No. 5—Pigeon	.15	.25	.45	1.85	3.20
No. 8—Mediterranean	.20	.30	.55	2.20	3.80
No. 9—Ex. Mediterranean	.20	.30	.55	2.25	4.00
No. 9—American	.25	.35	.60	2.40	4.40
No. 12—Asiatic	.25	.40	.75	3.00	5.50
No. 14—Turkey	.30	.55	1.00	4.00	7.50
No. 16—Turkey Tom	.40	.75	1.40	5.50	10.00

BANDETTES — CELLULOID FLAT LEG BANDS

Bevel ended with spring clip pattern, giving the band a neat jointless appearance, leaving nothing unprotected, the inside being smooth the legband cannot hurt the bird. Five colors, blue, red, yellow, green and pink. Furnished in sets—1 to 25, 1 to 50 and 1 to 100.

Size	25	50	100	500	1000
No. 6—Pigeon	.50	.85	\$1.50	\$6.50	\$12.00
No. 9—Mediterranean ..	.65	1.10	2.80	9.50	18.50
No. 11—American	.65	1.10	2.00	9.50	18.50
No. 12—Asiatic	.65	1.10	2.00	9.50	18.50

Champion—Adjustable

—Best adjustable leg band. Has neat, compact and smooth fastening, with no catching points; easily attached and absolutely secure. Prices, 25 for 30c; 50 for 60c; 100 for 75c, postpaid.

Colored Adjustable

—Carry these in four colors, blue, red, yellow and green; numbered from 1 to 100. Price, 25 for 40c; 50 for 75c; 100 for \$1.25.

CHICKEN MARKERS

Chicken Markers—All postpaid.

Petty's Perfect Poultry Punch

, small hole; each, 30c.

Moe's Ideal Poultry Punch

, nickel plated, each, 50c.

CAPONIZING SETS

Caponizing has become very popular with the poultry-men, as it brings the highest prices in poultry. The capon makes quick, tender meat, and much of it. To make a profit in poultry raising all male birds should be made capons. Very easy to do after reading special book of instructions.

We offer the following well known sets, all postpaid.

Pitting-Farmer Caponizing set, each.....\$3.00

Pilling Special Caponizing set, each..... 4.00

Pilling Jersey Caponizing set, each..... 4.50

LAMPS, BURNERS, ETC.

Lamp Bowls for No. 3 Burners, galvanized, each.....\$.80

Lamp Burners, No. 3, brass; each..... .70

Burner Reducer, fits No. 3 bowl and No. 2 burner.... .15

Burner Enlarger, fits No. 2 bowl and No. 3 burner.....15

Wicks, Common, for all sizes; each, 50c; 6 for..... .25

Tin Chimney, for No. 2, 30c; for No. 3 burners; each .35

See page 24 for Automatic Brooder and Incubator Alarm.

NEW ROYAL BROODERS

Burns Hard or Soft Coal or Coke

Again the coal capacity on Royal Stoves is increased, making them larger and heavier, giving better values at lower prices. Now made in two sizes, will burn hard or soft coal or coke; have double draft control and require 5-inch pipe. Automatic regulation controlled by check-draft, governed by two double filled wafer thermostats.

New style canopy has the front quarter hinged; all wire-bound and shipped K. D. Easily assembled, easier handled. In addition these stoves are equipped with a half throw-over cast-iron damper in the pipe collar which can be either used or not used as the consumer elects.

The Royal Brooder Stoves can be furnished with a gas burner and shut-off cock in place of grates and regulating arm, if so ordered originally without extra charge. Extra gas burners for all sizes can also be furnished as well as special Powers thermostat regulators on which quotations will be made upon request.

No. 5—Chick cap., 500; coal cap., 44 lbs.; size hover, 52-in.; height, 23½-in.; dia. grate, 9½-in.; shipping weight, 100 lbs.; f.o.b. Salt Lake, price, \$15.95.

No. 6—Chick cap., 1,000; coal cap., 58 lbs.; size hover, 56-in.; height, 25-in.; dia. grate, 10¾-in.; shipping weight, 120 lbs.; f.o.b. Salt Lake, price, \$19.95.

No. 7—Chick cap., 1,500; coal cap., 73 lbs.; size hover, 60-in.; height, 33-in.; dia. grate, 12½-in.; shipping weight, 163 lbs.; f.o.b. Salt Lake, price, \$26.95.

Handy Oil Brooder

ROYAL ELECTRIC BROODERS

50 to 75 Chick Capacity

Trouble-proof, practical and yet inexpensive electric brooder. Furnished with 50 watt protected heating unit. Canopy 24 inches in diameter made from heavy galvanized iron supported by strong steel legs. Handle on top permits carrying. Complete with 10 feet of cord on either model.

No. H-51—Weight, 5 lbs.; with heating unit, each.....\$3.50
No. E-50—Weight, 4 lbs.; without heating unit, each.....2.50

P.-W.'s Electric Brooder

P.W.'S ELECTRIC BROODERS

These electric brooders reduce labor cost of brooding by 50 per cent. They can be installed and placed in operation immediately, just plug into the nearest lamp socket and adjust thermostat switch to desired temperature, the heat is then turned on and off automatically.

SPECIAL NOTE—No. K-784 operates on 32, 110 or 220 volt, direct or alternating current. **BE SURE TO SPECIFY CURRENT WHEN ORDERING.** Prices are f.o.b. Salt Lake City. Power consumption kilowatts per 24 hours: No. K-732, 3½ K.W.; No. K-742, 6 K.W.; No. K-752, 7½ K. W.; No. K-784, 12 K.W.

No. K-732—Size 32x32-in.; 250 chicks, wt., 35 lbs.....\$16.00
No. K-742—Size 42x42-in.; 425 chicks; wt., 70 lbs.....20.00
No. K-752—Size 52x52-in.; 650 chicks; wt., 100 lbs.....24.00
No. K-784—Size 52x84-in.; 1,000 chicks; wt., 140 lbs.....42.00

BUCKEYE INCUBATORS

Buckeye incubators are guaranteed by the manufacturer to hatch every hatchable egg. A limited stock is carried in Salt Lake City. In ordering, therefore, please allow ample time to permit of shipment direct from the factory if necessary. Prices include freight.

No. 14—Style E; weight, 55 lbs.; cap., 65 eggs; frt. pd., each \$18.00
No. 16—Style E; weight, 85 lbs.; cap., 120 eggs; frt. pd., each 24.75
No. 17—Style E; wt., 125 lbs., cap., 210 eggs; frt. pd.; each 33.50
No. 1—Standard; wt., 110 lbs.; cap., 110 eggs; frt. pd.; each 33.50
No. 2—Standard; wt., 135 lbs.; cap., 175 eggs; frt. pd.; each 38.00
No. 3—Standard; wt., 200 lbs.; cap., 250 eggs; frt. pd.; each 49.50
No. 4—Standard; wt., 230 lbs.; cap., 350 eggs; frt. pd.; each 60.00
No. 5—Std Mam'th; wt., 323 lbs.; cap., 600; frt. pd.; each 94.75

NOTE—We can supply Electric Brooders. If interested please write us for details.

New style wire-bound canopy K. D. with quarter section hinged.

New Royal Stove Brooder

"HANDY" OIL BROODERS

Equipped with standard burners, an asbestos type wicks that are easily handled and replaced when necessary. Burner and one gallon metal oil fountain shipped completely assembled ready for use. Burner is protected by heavy screen. Three sizes. Price f.o.b. Salt Lake City.

No. 30—Cap., 250 chicks; canopy, 32-in.; wt., 35 lbs.; each, \$12.75.
No. 40—Cap., 500 chicks; canopy, 42-in.; wt., 40 lbs.; each, \$14.35.
No. 50—Cap., 1,000 chicks; canopy, 52-in.; wt., 50 lbs.; each, \$16.10.

No. H-51 and E-50

Buckeye Standard 175-Egg Size

MASON JAR FOUNTS

Will fit pint, quart, or half gallon Mason Jar. Convenient, cheap, sanitary. Can be used for feed as well as water. Both "Round" and "Star" shaped styles.

No. 0—Galvanized (postpaid), each	\$.10
No. 1—Enamaled (postpaid), each	10
No. 32—Star Shaped Tin (postpaid), each	10
No. 133—Star Shaped (Made of Charcoal Tin) For Feeding Buttermilk, Each, 15c; 2 for	25
No. 00—Feeding Buttermilk, Each, 15c; 2 for	25

MOE'S ADJUSTABLE MILK FOUNTAIN No. 139

Magazine Feeder in Tin Plate. Adjustable up and down to feed slowly or rapidly, for any kind of milk or feed. Capacity about 2 quarts. Has 12 feeder holes. Each, 75c, wt. 1 lb.

NON-FREEZE DRINKING FOUNTAINS

These fountains are constructed like Thermos Bottles, so thoroughly insulated that even at zero and below the water is protected from freezing and in hot weather the water remains cool for a long time.

Three-gallon size, shipping wt., 23 lbs., each	\$3.25
Five-gallon size, shipping wt., 27 lbs., each	 3.75

ROYAL LEADER CHICK FOUNTAIN No. 30

Made from heavy galvanized iron in two pieces. Top made with bail for carrying. Base pulls off to fill. Pressure of air and grooves in pan hold weight of water and fountain may be carried by handle without fear of spilling. Special deep narrow pan for chicks. It holds one gallon, shipping weight, 2 lbs. Price, each, 70c.

ROYAL GALVANIZED FOUNTAIN No. 32

This fountain is made from extra heavy gauge iron and provided with an exceptionally heavy bail. The bottom pan is pressed from one piece of metal and is made from 20-gauge galvanized iron. Turns upside down to fill. Pan is held in place by spring tension furnished by bail and forced in place. It holds six quarts. Shipping weight, 4 lbs. Each, \$1.35.

NEW CLEANABLE THERMIC FOUNTAIN NO. 10

This fountain is made from heavy galvanized iron with insulation that keeps the water warm in winter and cool in summer. The lower pan is also insulated to prevent the water that will be exposed to the air from freezing on account of coming in contact with the cold ground or floor. Many birds can drink at one time; very easily filled and cleaned, the outer insulated tank, slips down over the inside tank into which the water is poured. No valves to get out of order. On account of the overhang of the insulated outer part of the fountain, much dirt or litter is prevented from getting into the trough. Furnished with heavy bail for carrying.

Royal No. 10—Holds 5 gallons; weight, 27 lbs., each.....\$4.75

ROOF FLANGE

The new Royal Roof Flange which is adjustable to care for any pitch of roof, and is made from heavy galvanized iron, being rust-proof.

Furnished complete with stack 24 inches high and rain cap as illustrated. Made for two sizes of pipe, 4-inch and 5-inch, which should be specified in ordering.

4-inch Royal Roof Flange, each	\$1.80
5-inch Royal Roof Flange, each	 1.80

BROODER PIPE AND ELBOWS

Pipe, Black—5-in. diam., per length of 24 inches	\$.25
Pipe, Black—4-in. diam., per length of 24 inches	20
Elbows—4-in., each.....20c; 5-in., each	25

ROYAL DRAFT EQUALIZER No. 20

This prevents coal burning too fast or wind blowing down the chimney, causing fire to smother. It is made with either 4-in. or 5-in. galvanized pipe. Each, 95c.

NEW IDEA JAR FOUNT

Will fit any size or kind of glass jar. Does not tip over easily. Made from Charcoal Tin, for milk or buttermilk.

No. 14—Charcoal Tin, each, 15c.

BUTTERMILK FEEDERS No. 41

Made from heavy Charcoal Tin, spring steel clip enameled, which snaps over outer edge of pan. Easy to fill. Glass jar not furnished. Each, 15c; 2 for 25c.

Mason Jar Fountain
Type No's. 0, 1, 00

Non-Freeze

New Cleanable Thermic
Fountain No. 10

Royal Roof Flange

Star Fount No. 133
and No. 32

Moe's Adjustable Milk
Fountain No. 139

Royal Lader Chick
Fount No. 30

Royal Galv. Fount. No. 32

New Idea Jar Fountain
No. 14

Buttermilk Feeder No. 41

ROYAL ELECTRIC FOUNTAINS

This series of fountains which is of the same pattern as No. 203, No. 205 and No. 208 fountains, is equipped with extension bottom and a special flat type of heating unit fastened to the bottom of the fountain. This heating unit, 50 watt capacity, 1.2 kilowatts of electric current is all that is required for 24 hours continuous operation. Guaranteed to keep water from freezing in temperatures down to zero. Furnished complete with 10 feet of cord and screw plug.

No. 223—Capacity 3 gallons; Weight 12 lbs.; Each.....\$4.50
No. 225—Capacity 5 gallons; Weight 15 lbs.; Each.....5.00
No. 228—Capacity 8 gallons; Weight 17 lbs.; Each.....5.50

Royal Fountain Heaters

Made from heavy galvanized iron with oil fount built-in. Furnished with "no-chimney" burner which insures perfect combustion. Burns for a number of days with one filling of oil. Number 211 is used with No. 203 fountain. Number 214 is used with No. 205 and 208 fountains.
No. 214—Each, \$2.00; Wt., 5 lbs. No. 211—Each, \$1.75; Wt., 4 lbs.

Automatic Float Valve

For regulating running water. One of the simplest and most efficient automatic water valves on the market. It is made entirely of brass and copper, making it rust-proof and it will wear indefinitely. Capacity about one quart per minute. Can be attached to any city water line, farm water tank, supplying fresh water automatically. Price, \$1.25 each.

Bottom Filled Fountain No. 103

An inexpensive fountain, made from heavy galvanized iron. Two piece cone shape, neatly striped with green around top. Easily filled and cleaned. To be used in connection with brooders in brooding larger lots of chicks. No. 103—3 gal. cap.; shipping weight, 3 lbs.; each, \$1.25 No. 75—4 gal. cap.; shipping weight, 1½ lbs., each, 60c No. 50—2 qt., wt., 1 lb.; each, 40c.

Royal Charcoal Tin Large Buttermilk Fountains

Made from 135 lb. charcoal tin and have two large openings, one on each side, with a piece of spring steel attached to two pieces of metal in the inside; in order to keep the milk from running out when the fountain is filled, when the outer can is slipped down over the inner one, the pressure of these springs opens both holes and permits the feeding of all kinds of buttermilk. No reversing. Easily cleaned and filled. Two sizes.
No. 301—Capacity, 1 gallon; shipping weight, 9 lbs., Each, \$1.50
No. 303—Capacity 3 gallons; shipping weight, 11 lbs., Each \$2.60

Royal Water Fountains

Same style as Royal No. 303, but made from heavy galvanized iron, double tank construction, of large capacity for grown fowls.
No. 203—Capacity 3 gallons; shipping weight, 11 lbs., Each \$2.00
No. 205—Capacity, 5 gallons; shipping weight, 17 lbs., Each \$2.65
No. 208—Capacity, 8 gallons; shipping weight, 17 lbs., Each \$3.25

Royal Chick Hooper No. 56

Made of heavy galvanized prime sheets, has cone-shaped bottom to keep feed from clogging. Edges of holes are turned under which makes them smooth. Top easily removed for filling; bottom easily removed for cleaning. Height, 12 inches; diameter, 8 inches; diameter of pan, 12½ inches. 22 feeding holes. Shipping weight, 27 lbs., capacity, 1 peck; each, \$1.25.

Moe's Peerless Feeders

The vertical feeder holes make it impossible for the chicks to waste the feed. Thirty chicks can feed at one time. Made in two sizes. No. 192—Dia. of base, 12 in. 30 feeder holes. Dia. of mag., 9½ in. Total height, 12 in. Cap., 10 qts.; wt., 6 lbs., each, \$1.60. No. 193—Dia of base, 12 in.; 30 feeder holes. Dia. of mag., 9½ in. Total height, 18 in. Cap., 18 qts.; wt., 7 lbs.; each, \$2.10.

Stoneware Milk Chick Feeder

Made of the best quality stoneware, nicely glazed inside and outside; eight holes are provided for feeding buttermilk or sour milk to baby chicks. The capacity of this feeder is one gallon; weight, 9 pounds. Price, each, 90c.

Royal Grown-Fowl Feeder

Same style, but much larger than No. 306. Built to feed dry mash, wet mash and green feeds. Hinged wire top which prevents hens from getting into rough and wasting feed.

	With Stand	Less Stand
No. 36—Length, 36 in.....	\$3.75	\$3.00
No. 48—Length, 48 in.....	4.25	3.25
No. 60—Length, 60 in.....	4.75	3.50

Revolving Wood Reel Troughs

Made from 26-gauge galvanized iron in two lengths. Extra wide and made with wide lip on each side to prevent feed waste. Painted wood revolving reel keeps chicks off trough.

No. 200—Length, 24 in.; wt., 2 lbs.; Price each, 45c.

No. 300—Length, 36 in.; wt., 2½ lbs.; Price each, 60c.

Revolving Wood Reel Trough

Royal Wire Top Chick Trough No. 306

Automatic Float Valve

Royal Buttermilk Fountain No. 303.

Peerless Feeder No. 192

Stoneware Milk Chick Feeder

Royal Electric Fountain No. 223, 225, 228

Bottom Filled Fountain No. 103

Royal Chick Hopper No. 56.

Royal Wire Top Chick Trough

Made from 26-gauge galvanized iron in two lengths, stamped from one piece of metal with ends beaded for strength, no spot welding. Ends cannot get loose or come off trough. Extra wide and made with wide lip on each side to prevent feed waste. This carries a hinged wire grill which can be opened for filling or cleaning.

No. 204—Length, 24 in., wt. 2 lbs.....\$.70

No. 306—Length, 36 in., wt., 3 lbs..... .90

No. 44—Length, 44 in., wt., 7 lbs..... 2.50

ADJUSTABLE WIRE BAR TROUGH

No. 140
Made with and without lip along side in 24-inch length only. No. 140 with lip, 45c each.

ROYAL HINGED TOP TROUGH

Single side, made from heavy galvanized iron in three lengths, to be used in storage brooders or placed at outer edge of brooding compartments for chicks. Has hinged cover.

- No. 124—Length 24 in.....Price Each \$.50
- No. 136—Length 36 in.....Price Each .75
- No. 148—Length 48 in.....Price Each .90

BUTTERMILK FEEDER TROUGHS

Feeding Troughs—made from charcoal tin plate, making them safe for feeding buttermilk. Sliding top. Easy to clean. No seams, rivets or solder. Clean sanitary feeders.

- No. 312—length 12 in.; 16 holes; wt., 1 lb; each....\$.40
- No. 318—length 18 in.; 26 holes; wt., 1½ lbs.; each .50
- No. 324—length 24 in.; 34 holes; wt., 1¾ lbs.; each .60

Royal type of Feed Troughs 312, 318, 324 and 212, 218 and 224.

ROYAL FEED TROUGHS

Extra heavy slide made from best quality prime galvanized sheets; no sharp or rough edges; well-made trough with slide top. Made in three sizes.

- No. 212—length 12 in.; 16 holes; wt., 2-3 lbs.; each \$.30
- No. 218—length 18 in.; 26 holes; wt., 1 lb.; each.... .40
- No. 224—length 24 in.; 34 holes; wt., 1½ lbs.; each .50

ROYAL DRY MASH TROUGHS

Made from heavy galvanized iron with wire stationary frame over top. Can be set on stand or hung on wall.

- Width, 7 in.; depth in front, 5 in. Depth in rear, 7 in.
- No. 78—Length, 36 in.; wt., 7 lbs.; each.....\$1.70
- No. 79—Length, 48 in.; wt., 12 lbs.; each.....2.50

Dry Mash Hopper
Nos. 81, 82, 83, 84

MAMMOTH MASH HOPPER

Large capacity hopper made from heavy galvanized iron of sufficient size to accommodate full hundred pound box of mash. Hopper is larger and wider at the top, provided with slide top which slides on heavy galvanized rolls. Stand is made from heavy galvanized angles and has wooden bars for fowls to rest on. Length of hopper, 36 in., capacity, 100 pounds.

- No. 8-S—Hopper and stand complete, packed one to crate; shipping weight, 50 pounds, each \$11.50.
- No. 8—Hopper only, no stand, weight, 32 lbs.; each, \$8.00.

NEW ROYAL HOPPERS

Made from 26-gauge galvanized iron are the heaviest on the market and include features as illustrated on the cut, all of which are found on no other hopper. The capacity is much larger and the hopper much better made than any other hopper made. Full length and shipped completely assembled.

- No. 342—Length 24 in.; 34 holes; wt. 7 lbs., Each \$1.90
- No. 363—Length 36 in.; 54 holes; wt. 10 lbs., Each \$2.75

Mammoth Mash Hopper No. 8-S

GRIT AND SHELL BOXES

Grit, shell and charcoal can not be more economically supplied than in one of our inexpensive compartment boxes. Can also be used as a feed hopper for little chicks. Made of heavy galvanized iron in three sizes.

- No. 45—For Baby Chicks, 2 comp., wt., 1 lb., each, 50c.
- No. 9—For grown birds, 3 comp., wt., 3 lbs., each, \$1.00.
- No. 90—For grown birds, 4 comp., wt., 4 lbs., each, \$1.40.

No. 9 Grit and Shell Box

DRY MASH HOPPERS

- No. 81—Width 12 in.; cap. 14 qts.; wt. 6½ lbs.; ea \$2.00
- No. 82—Width 18 in.; cap 22 qts.; wt. 8 lbs.; ea. 2.25
- No. 83—Width 24 in.; cap. 32 qts.; wt. 9½ lbs.; ea. 2.75
- No. 84—Width 36 in.; cap. 45 qts.; wt. 23 lbs.; ea. 4.50

Royal Large Capacity Chick Hoppers

Made from heavy galvanized iron with hinge top. Turned edges on all holes over feeding trough. Most economical of large chicken hoppers on the market.

- No. 624—length 24-in.; holes 34; cap. 17 qts., wt. 11 lbs.; each \$2.65
- No. 636—length 36-in.; holes 34; cap. 26 qts., wt. 17 lbs.; each 3.40
- No. 648—length 72-in.; holes 72; cap. 35 qts.; wt. 23 lbs.; each 4.50

ROYAL LEADER CHICK HOPPER

Galvanized iron, in two lengths hinge top with adjustable sides, turned edges, feeding holes are placed high to prevent waste.

- No. 42—Length 24"; 34 holes, holds 12 qts, shipping wt., 7 lbs. Each, \$1.40.
- No. 63—Length 36", 34 holes, holds 18 qts, shipping wt., 9 lbs. Price, each, \$2.00.

Royal "Leader" No. 42, 63 Chick Hopper

Royal Large Capacity Hoppers
No. 624, 636, 648.

Prices are not prepaid. If by mail add postage to your order. Prices change rapidly. Write for current poultry price list. If interested don't fail to get your name on Our Poultry List for Special Quotations.

Wormy hens are poor layers, especially in winter, when eggs are high. Worm your birds with GIZZARD CAPSULES before cold weather sets in.

PRATTS POULTRY PREPARATIONS

PRATTS POULTRY REGULATOR

(For Health and Eggs)

makes more eggs. Use it the year round and make bigger profits. Guaranteed to give satisfaction or your money back. 65c, \$1.75 packages; 12-lb. bag, \$1.75; 25-lb. pail, \$3.50; 100-lb. drum, \$11.50; Add extra for postage. Packed in cloth bags, 12 lbs., \$1.75; 25 lbs., \$3.00; 100 lbs., \$10.50.

PRATTS POWDERED LICE KILLER

A powerful and economical lice killer that quickly rids your fowls of these profit eating pests. Use it on the poultry, in the nests and dust boxes, etc. Also used to free horses, cows, sheep, dogs, cats, etc., from lice, fleas and other vermin. Easy, safe and effective to the highest degree.

In sifter top cans at 30c weight 1-lb. and 60c. weight 2½-lbs. Add extra for postage.

PRATTS POULTRY DISINFECTANT

Insures poultry health. A cheap, powerful, non-poisonous disinfectant. A gallon makes a barrel of disinfecting solution. Use it freely. Spray it about the poultry houses, roosts, dropping boards, nests and wherever a strong disinfectant is needed. Acts as a deodorizer, germicide, and liquid lice killer. Effective in the treatment of roup, colds and contagious diseases. Pints, 50c; quarts, 75c; half-gallon, \$1.25; gallon, \$2.25 weight 10-lbs; 5 gallons, \$8.00, weight 50 lbs. Add extra for postage if by mail.

PRATTS R-P REMEDY

(Formerly Roup Remedy)

Use it as a treatment or preventive. An easy, powerful remedy with a long record of success in the treatment of colds, roup, diphtheria, catarrh, etc. Keep a box always at hand, guaranteed to give satisfaction. 30c, 60c sizes.

For Adult Fowls

Pratts R-P Tablets are cheap and safe. They may be given to individual birds or added to drinking water in any kind of vessel. Use one tablet, crushed to each quart of drinking water. Put up in convenient sizes. 30c, and 60c; also 1000 tablets, \$3.00.

HEAD LICE OINTMENT

Rub a little of this special ointment on the head and under the wings of each little chick and you will not only avoid losses from head lice but also have stronger and healthier chicks. 30c a tube. Post paid.

PRATTS GAPE COMPOUND

Made in two forms for either external or internal use. Equally effective and a safe and quick remedy for gapes in chicks. Use it as a preventive and avoid heavy losses from this trouble. Fully guaranteed. 35c and 70c packages. Post paid.

PRATTS CHICK TABLETS

(Formerly Pratt's White Diarrhea Remedy)

Use this in the chicks drinking water for the first ten days and you will avoid losses from white diarrhea and like bowel troubles. This is "life insurance," for chicks that will save you dollars. Very easy to use and fully guaranteed. 30c and 60c, postpaid.

PRATTS N-K TABLETS

Here's the effective and sure way to quickly rid a fowl of worms. Just one Pratt's N-K Tablet does the trick. These tablets contain full doses of nicotine and kamala, recognized by all authorities as the two best poultry vermifuges. They are covered with a tough, insoluble coating which is broken by the grit in the gizzard, releasing the fresh potent drugs right in the worm-infested intestines. Pratt's N-K Tablets are made in two sizes, one for adult hens and turkeys, another for half-grown birds. Adult size, 50 tablets, \$1.00; 100 tablets, \$1.75; 500 tablets, \$7.00; 1000 tablets, \$12.00. Chick Size—50 tablets, 65c; 100 tablets, \$1.00; 500 tablets, \$4.50; 1000 tablets, \$8.00.

PRATTS RED MITE SPECIAL

Is a powerful preparation put up specially to rid flocks of red mites, ticks, blue bugs, fleas and like blood sucking vermin. It should be sprayed or painted on the roosts, dropping boards, nest boxes, and in all cracks. One application is effective for months. Many times more powerful and effective than ordinary liquid lice killers. Quart, 75c; ½ gallon, \$1.25; gallon, \$2.25. Add extra for postage.

PRATT'S POULTRY WORM POWDER

Worms kill thousands of fowls every year. Twice a year wise poultrymen use Pratt's Poultry Worm Powder. It rids poultry of round, tape and thread worms, is safe, sure, easy to use and costs only a little over one cent to treat a fowl. Small size pkg., 65c; large size, \$1.20; 25 lbs., \$3.85; 100 lbs., \$13.25.

PRATTS COW TONIC

An excellent conditioner for Dairy stock. It sharpens the appetite, tones up the blood and increases production. Package. Small size, 65c; large size, \$1.30.

PETERS TOE PICK REMEDY

Has proven to be a most effective cure for "toe pick" rump or wing pick. Convenient sizes, 30c, 50c, and 75c.

Refer to pages 35 to 40 for Chick Feeds, Feeders, Drink Founts and Remedies. We invite correspondence on all kinds of Grains, Seeds, Feeds, etc., for Poultry and Pat Stock, as prices fluctuate greatly. We handle the following in large quantities and can always give attractive prices: Feed Wheat, Kaffir Corn; Whole and Ground Feed Corn, Rolled Oats, Feeding Barley, Bran, White Shorts, Millet, Sunflower Seed and Field Peas. Weight, Quantity and Prompt Service Guaranteed. Phone or write us.

P.-W.'s BABY CHICKS

Blood Tested, Bred From High Grade Stocks, Culled By Experts

Baby chicks are a great specialty with us. We recommend the raising of our day-old chicks as the most satisfactory way of establishing a new flock of poultry, or of renewing an old flock, for utility purposes. It is really less expensive to buy chicks than to hatch them in small lots, and you are much more certain of having just the number that you want when you want them. You are saved all the bother of operating an incubator or caring for a setting hen, the expense of maintaining male birds which lower the value of the eggs for table use, and the expense of the incubator, or loss of body weight and time off from laying of the setting hen.

Baby Chicks that we offer are the product of free range flocks, pure bred, of standard type, carefully culled, and selected for their performance as layers. These flocks have been developed and maintained for years especially for the production of our **Baby Chicks**. They are the very highest quality of flock matings. **They have the quality you would get from a Fancier**, but you only have to pay reasonable prices for vigorous, healthy chicks with the blood of famous producers in their veins. You could not produce these chicks at twice the cost.

Our hatcheries are conveniently situated to serve the trade throughout the Western territory, and unless otherwise instructed, your orders will be placed with the hatchery which is nearest to you in order to insure prompt and safe deliveries.

We list below the most popular breeds but are in touch with sources of supply of many other strains, so if you do not find what you want in the list below write us, and without doubt, we can supply you.

	25	50	100	1000
Extra Selected White Leghorns.....	\$3.75	\$ 7.25	\$14.00	\$135.00
Standard White Leghorns.....	3.50	7.00	13.00	125.00
Buff Leghorns.....	3.75	7.25	14.00	135.00
Brown Leghorns.....	3.75	7.25	14.00	135.00
Rhode Island Reds.....	5.00	9.00	16.00	150.00
Barred Rocks.....	5.00	9.00	16.00	150.00
Black Minorcas.....	5.00	9.00	16.00	150.00
White Rocks.....	5.00	9.00	16.00	150.00
Buff Orpingtons.....	5.00	9.00	16.00	150.00
Langshans.....	5.00	9.50	17.00	160.00
Anconas.....	5.50	9.00	16.00	150.00
White Wyandottes.....	5.50	9.50	17.00	160.00
Brahmas.....	6.00	11.00	20.00	190.00
Australorps.....	6.00	11.00	20.00	190.00
Black Jersey Giants.....	6.00	11.00	20.00	190.00
Heavy Mixed Breeds.....	3.75	7.25	14.00	135.00
Light Mixed Breeds.....	3.25	6.25	12.00	115.00

Pekin Ducks—In lots of 25 or more, 25c each regardless of quantity.

Bronze Turkeys, 60c February, March and April. 50c May and June.

TERMS—All orders must be accompanied by at least 25 per cent down payment, balance C.O.D. All Turkey and Duck orders must be accompanied by a 50 per cent down payment, balance C.O.D. All prices are f.o.b. hatcheries.

Reasonable length of time should be allowed in which to make delivery, orders for 500 or more chicks should be received a month in advance of date you wish delivery, although in many instances surpluses develop in our hatcheries throughout the season so we can generally fill any order.

PLEASE NOTE—We guarantee 100 per cent live delivery as far as chicks are carried by rail either express or parcel post. No guarantee after chicks are turned over for hauling long distances by trucks. No claim can be considered without a receipt from the express agent or postmaster. Any error or loss must be reported at once and all **Valid Claims** will be settled either by free replacement or a refund at our option.

PRATTS BUTTERMILK BABY CHICK FEED

The original "baby food for baby chicks." As a result it is today possible to raise every liveable chick by using this splendid feed for the first three or four weeks of a chick's life. That is the critical period when the use of Pratt's Buttermilk Baby Chick Food will more than pay for itself in the extra chicks you save.

Pratt's Buttermilk Baby Chick Food is made of the most carefully selected, high grade ingredients skillfully prepared so that it is mechanically predigested. It furnishes everything needed for health, growth and a sturdy foundation. Leg weakness, diarrhea and other chick troubles are unknown where Pratt's is used.

Don't waste time, chicks or money on imitations of Pratt's. We guarantee it will give complete satisfaction. Price: 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$2.35; 100 lbs., \$4.50. (See page 38 for Full-O-Pep Chick Starter.)

PRATTS BUTTERMILK GROWING MASH

Contains healthful dried buttermilk; growth making oat-meal; ground No. 2 old yellow corn; rich wheat middlings; meat scrap and fish meal that make muscle and frame; and nourishing bone and health building wheat bran and sterilized bone meal. Every element is carefully selected, skillfully prepared and mixed as only Pratt's know how. It is guaranteed for quality and uniformity. Analysis—Protein, 17.5%; Fats, 4.5%; Carbohydrates, 58%; Fibre, 7%. Price: 10 lbs., 55c; 25 lbs., \$1.15; 50 lbs., \$2.15; 100 lbs., \$4.00.

See preceding pages for full line of poultry feeds and remedies.

LET US HAVE YOUR NAME FOR OUR "POULTRY LIST SPECIALS"

Special quotations are made at intervals during the year whenever market fluctuations justify. Several hundred of our Poultry Supply Customers are now on this mailing list. Upon request we shall be glad to add your name so that you may receive the benefit of this special information.

PET STOCK DEPARTMENT

P.-W.'s CANARY BIRDS

Every singer we sell is known by us to be a singer. Just mention the amount you wish to pay and leave the selection to us. All birds are graded as to singing qualities and range of notes.

We have at all times a complete showing of domestic and imported canaries, both male and female. We are exceedingly careful at all times to keep nothing but the very highest grade canaries obtainable for distribution and can assure you that any of our birds will give complete satisfaction.

St. Andreasburg Rollers—Our imported St. Andreasburg Roller Canaries, with their soft, pleasing, beautiful bell-note that inspires the mind and brings happiness to the heart of everyone that hears them, will surely become a real joy in any home.

The prices of these wonderful songsters are from \$10.00 to \$15.00. Some extra select at \$25.00 each. The \$25.00 Rollers make wonderful breeders and trainers. The colors of these birds range from pure yellow to a dark green. We can also supply female imported St. Andreasburg Rollers at \$5.00 each.

Hartz Mountain Warblers—The imported Hartz Mountain Triller, or Warbler Canales. The song of these canaries is more loud than the Roller, but beautiful in its variation. A great many like them equally as well as they do the Rollers. The price of these canaries range from \$7.50 to \$10.00. Extra select for training and breeding purposes at \$15.00. Price of female, \$2.50.

Domestic Warblers—These birds have a loud song similar to the imported warbler, and are of the same color variations. Our stock are all very good singers. The price for the male birds is \$7.50. Extra select at \$10.00. Females are priced at \$1.50 each.

MISCELLANEOUS BIRDS

We also carry a large stock of fancy birds, including: Bullfinches, Parrots, Macaws, Java Sparrows, Finches, Paroquets or Love Birds, etc.

As the seasons for obtaining the different birds vary, we do not always have all these different kinds in stock, but you will always find at least a variety of different kinds of fancy birds in our cages, including some kinds not listed above.

CARE AND CLEANLINESS

Just a word about how to care for your birds. A bird cannot be expected to keep clean if his cage or aviary is not kept clean. If you use a cage in the house, whenever necessary, give it a washing in cold water; (hot water will remove the lacquer of a brass cage). Give the bird or birds a bath daily in summer and twice a week in winter. Take the bath dish out of the cage as soon as the bath is given. Always keep fresh, clean water in the drinking water containers. Use nothing but the very best re-cleaned seeds as feed. You will always find P.-W.'s bird seed clean and fresh. We take the bird's health into consideration when offering our bird seed for sale.

Clean the cage thoroughly daily. Be sure to scrape the perches in the cleaning. Keep a liberal supply of gravel in the bottom of the cage or aviary and be sure that the gravel is not dirty or dusty. By all means, at all times, keep your bird out of drafts. Place him in a sunny place whenever possible.

If you want advice concerning your pets, call or write as no doubt we can assist you.

Your correspondence is solicited if you do not find what you want listed here. We carry Baby Alligators, Turtles, and are in touch with breeders of Dogs, Cats, Rabbits, etc. It is our business to get what you want, when you want it.

Single Spring

CAGE EQUIPMENT

Cage Charm Bells, tiny bells to hang on cage, each...\$0.10

Perches, all lengths, plain wood; give size wanted, each..... .15

Seed and Water Cups, "Single Point" opal, porcelain, also glass, either 2 for 35c; each... .20

Unbreakable Seed and Water Cups, colors match cages, Duco finish, 35c each, 2 for 60c.

Seed and Water Cups, open top. "Tulip Cup," opal, porcelain, also glass, either 2 for 35c; each, 20c.

Seed and Water Cups, closed top, "Shell," opal, porcelain, also glass, either 2 for 35c; each, 20c.

Cuttle Bone Holder, Hendryx No. 1, to hold small piece in place, 15c.

Bath Dishes, porcelain, oval shape, medium size; 2 for 45c; each, 25c.

Bath Houses, glass sides, fits to side of cage; each, \$1.15.

Bird Cage Nests, wire cloth, 4 inches diameter; 2 for 45c; each, 25c.

Nesting Hair, per pkg., 15c.

Cage Springs, single coil, brass, heavy; each, 15c.

Cage Spring, single, with 2-ft. ladder chain, adjustable; each, 30c.

Cage Spring, double coil, brass, prevents cage swinging; each, 30c.

Cage Bracket, brass plated, heavy, swinging, No. 7 wire; 12-inch; each, 30c.

BIRD FOODS AND REMEDIES

Postpaid Prices

Bird Manna , in cakes ready to attach to edge, each...	\$0.15
Bird Bitters , Iron Tonic, per bottle.....	.25
Bird Salve , small size can.....	.25
Bird Books , Raising and Care of Canaries.....	.40
Bird Cage Disinfectant	.25
Bird Biscuit	.10
Bird Ointment	.30
Canaradyne , wheezing and Asthma, per bottle.....	.25
Coloring Pepper	.25
French's Bird Seed and Biscuit , 10 oz. pkg., each.....	.25
French's Canary Exercise Balls	.25
Lice and Mite Powder , with guns.....	.25
Leg Bands for Birds , numbered; per doz.....	.25
Mexican Salve , for sores, package.....	.25
Mite Powder , in bags.....	.20
Nesting Food , Spratt's, package.....	.30
Orange Color Food	.25
P.-W.'s Parrot Food , mixed for parrots, 2 lb. pkg.....	.45
Pollicrackers , special biscuit for parrots, 12-oz. ctn.....	.30
Song Restorer , valuable tonic.....	.25

BIRD SEED, ETC.

Not Prepaid, add postage if by mail

Canary Seed , re-cleaned, 2 lbs., 35c.....	Lb. .20
Cuttle Bone , 5c a piece, ¼ lb., 30c.....	1.00
Flax Seed , medicinal laxative, ½ lb., 10c.....	.15
Hemp Seed , re-cleaned imported, 2 lbs., 25c.....	.15
Maw Seed (Poppy), re-cleaned, ¼ lb., 15c.....	.40
Millet Seed , large yellow, 2 lbs., 25c.....	.15
Oats , steel cut, special bird size, 2 lbs., 25c.....	.15
Rape Bird Seed , imported, 2 lbs., 35c.....	.20
Sunflower Seed , 2 lbs., 25c.....	.15
Thistle Seed , ¼ lb., 20c.....	.60
Bird Sand , sterilized, 2 lbs., 15c.....	.10
French's Parrot Food , 1 lb. pkg.....	.30
French's Bird Seed and Biscuit , 10 oz. pkg.....	.25
P.-W.'s Mixed Bird Seed —We make a very nice mixture consisting of sweet re-cleaned canary, re-cleaned Millet Hulled Oats and the large Sweet Rape. Price, 20c per lb., 2 lbs., for 35c.	

P.-W.'s Special Bird Seed Mixture for Roller Canaries—Consisting of Imported Large Sweet Rape and Re-cleaned Canary. This is especially good for your Roller canaries. No waste. Price, 25c per lb.

Brass Cage No. 274, 275
276

Brass Cage Series
1274-5-6

Brass Cage No. 2030DB

Brass Cage 2274-5

BRASS CAGES

All cages which we describe as "Brass Cages" are made of solid brass throughout, there is no plated work of any description. The wires and rails are securely fastened together by rivets. This method permits using the Best Spring Wire and results in a cage unequaled by any other on the market for durability and lightness.

All edges are rolled over and the hook fasteners are of practical and improved types. Only the best grade of lacquer obtainable is used to protect the high finish which is given to these cages.

No. 274—Polished Brass. (See cut)—10 in. diameter, height 15 1/2 inches, each, \$3.75.

No. 275—Polished Brass. (See cut)—11 in. diameter, height 15 1/2 inches, each, \$4.00.

No. 276—Polished Brass. (See cut)—11 1/4 in. dia., height 17 1/4 inches, each, \$4.50.

No. 1274—Polished Brass. (See cut)—10 in. diameter, height 13 1/2 inches, each, \$3.55.

No. 1275—Polished Brass. (See cut)—11 in diameter, height 13 3/4 inches, each, \$4.45.

No. 1276—Polished Brass. (See cut)—11 1/4 in. diameter, height, 15 1/4 inches, each, \$5.00.

No. 2030—D. B. (See cut)—Diameter 10 inches, height 17 1/4 inches. Body of cage and cups are finished in color. Base, roof rail and top piece are polished brass, finished in 2-tone red, 2-tone black and 2-tone blue, each, \$8.50.

No. 2274—(See cut)—Finished in red 2-tone, green 2-tone, blue 2-tone, 10 1/2 in. Diameter, height 13 in., each, \$4.25.

No. 2275—Same style and colors as No. 2274—11 in. dia., height, 13 1/2 in., \$4.75.

No. 2040DB—(See cut). Brass finished in Red, 2-tone green, 2-tone, blue 2-tone. Diameter 10 in., height, 13 1/4 inches, \$8.25.

Brass Cage No. 2040

Pyralin Cage No. 1400

Breeding Cage Style No. 86S
86 and 87

Brass Stand
No. 31

Pyralin Style
No. 10

The colors in our Pyralin Cages and Stands are permanent. This material is smooth and hard and has a rich lustre. It may be washed freely in lukewarm water with soap without harm to the finish.

No. 1400—Finished in black and white; orange and black; amber and ivory; blue and ivory; pink and ivory; and all ivory—state colors desired. Diameter of cage 11 inches, height 19 inches. Each, \$25.00.

No. 1401—Same style and shape as No. 2030 Brass. Finished in Chinese red and black; green and black; green and ivory; state color combination desired when ordering. Diameter of cage 11 inches, height 19 inches. Each, \$35.00

BREEDING CAGES

With Solid and Wire Partitions, Metal Drawer and Closed Back. Complete with 4 glass cups, 6 perches, and 2 nests.

No. 86S—17 1/2 x 8 3/4 in., height 14 in. \$6.00

No. 86—19 1/2 x 10 in., height 14 1/2 in. 6.75

No. 87—22 x 11 in., height 16 1/4 in. 7.75

PARROT CAGES

Standard tin wire material and tin base

No. 80-P—14 inches diameter; 23 inches high. Each \$ 8.50

No. 85-P—15 1/2 inches diameter; 24 inches high. Each 10.00

No. 90-P—17 1/4 inches diameter; 30 inches high. Each 11.50

BIRD CAGE STANDS

No. 29—Finished in 2-tone red, 2-tone green, 2-tone blue, height 65 inches. (Same style as No. 31. See cut). Each, \$4.50.

No. 29-A—Polished brass. Height 65 inches. Same style as cut No. 31. Each, \$4.00.

No. 30-A—Polished brass finish. Height 65 inches. Style like that of No. 31, but with full circle top. Each, \$5.00.

No. 31—Solid steel upright and arch duco finish in colors ivory, bronze, green, ebony and gold. Height 65 inches, style see cut. Each, \$3.50.

No. 57—Solid steel upright and arch 65 inches high, finished in Duco colors red and black, green and black, blue and gold. (Style cut No. 31). Each, \$3.75.

No. 58—Same material, height, style and color combination, as No. 57 but the top is a full circle. Each, \$4.25.

No. 3150—Wrought iron, height 67 inches in Duco colors, 2-tone gold and blue, red and black, and green. Each, \$3.00.

No. 101—Pyralin, height 65 inches, in colors to match Pyralin cages No. 1400 and 1401. (See cut). Each, \$10.50.

No. 102—Pyralin. Same as No. 101 except top is full circle. Each, \$6.00.

We carry a very complete line of Pet Stock and supplies. If you do not find what you want listed in this catalog, write, us no doubt we shall be able to supply your requirements.

When ordering Cages if you desire a different style then those shown here, describe what you wish and tell us the price you can afford. We'll secure it for you if possible, and guarantee satisfaction.

Wange Remedy (Oily dark color)—For swin disease.....	\$0.60
Distemperine, liquid (tablets)—For distemper.....	.60
Condition Pills with Pepsin.....	.60
Blood Purifying and Cooling Pills—For Eczema, etc.....	.60
Laxative Pills—Keep the bowels right.....	.60
Worm Pills—For the expulsion of worms.....	.60
Vermifuge—liquid—for worms, al lages and breeds.....	.60
Canker Lotion—liquid (tablets), Canker, deafness, etc.....	.60
Puppy Tonic—Weak puppies, relieve colic.....	.60
Diarrhoea Remedy—liquid (tablets).....	.50
Ceoline Dog Wash and Disinfectant—For fleas.....	.60
Killflea (Dog Soap).....	.25
Skin Medicine (Colorless) For skin diseases.....	.60
Cough Remedy—For coughs and colds.....	.60
Digestive Tablets—For all forms of indigestion.....	.60
Little Red Worm Bullets—For toy puppies and dogs.....	.60
Chorea Tablets.....	.60
Killflea Powder—For dogs and cats, per can.....	.35
Tape Worm Expeller—Especially prepared for tape worm.....	.60
Fit Remedy, liquid (tablets)—For fits and convulsions.....	.60
Barnes' Vita-Tone—Controls worms.....	.50
Spratt's Catnip Mice.....	.15
Dog Collars, various sizes and styles, each 50c up to.....	1.25

CAL-O-RATION

THE WONDER MEAT FOOD

For Dogs, Cats, or any Carnivorous Animal

CAL-O-RATION is a cooked, canned, meat product, ready to feed, containing meats, cereals, vegetables and oils. It contains the necessary vitamins and the proper amount of calories necessary for the proper development of any species of Dogs, Cats or Foxes. The amount to feed is regulated by the size of the animal. Generally speaking, animals weighing 8 to 15 lbs. 3 meals in one can, 25 to 30 lbs. 2 meals in one can, 45 lbs. and over, 1 can per day. Best results will be obtained if CAL-O-RATION is fed once or twice a day. To afford the necessary change of diet for dogs, which the dog authorities advocate, is to mix with CALIFORNIA DOG FOODS. Price per can, 20c each; 3 for 50c; 1 case, 4 doz., \$7.80.

We stock Ken-L-Ration at the same price as Cal-O-Ration.

GOLD FISH AND SUPPLIES

GOLD FISH

Small Fish about 2 in. long; each 15c to.....	\$0.35
Medium Size, 2½ to 3 inches long; each, 35c to.....	.50
Large Size, 3½ to 4 in. long; each 60c to.....	.75
Fan Tails, according to size, each, 50c, 75c and.....	1.00
Tin Pails, for use when shipping fish, are sold at about cost; quart, 15c; 2-quart, 20c; 3-quart, 25c; gallon, 35c; 2-gallon.....	.50
Fish must travel by express. Customers pay expressage. Pamphlet on Care of Gold Fish FREE with order.	

AQUARIUM SUPPLIES

Fish Food, Imported, Rice Wafer	\$0.15
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CATTLE AND HOG SUPPLIES

BAG BALM (OR HEALER)

This is a splendid remedial agent for the vralous diseases that attack he udder. Per can 65c each, postpaid.

KOW-KARE

The Best and Cheapest Insurance on the Health of your Cows. Price: Large size, \$1.25; medium size, 65c; six large cans, \$6.25.

Lee's Hog Oil Wormer

Lee's Hog Wormer has priven in thousands of tests that it will positively and unfailingly expel the worms from swine. One quart is 32 doses for pigs weighing from 40 to 75 lbs. Qt. size, \$2.25; half gal., \$3.75; gal., \$7.00.

PRATT'S COW TONIC—See page 39.

DOG SUPPLIES

Note: Add postage on all sizes if wanted by parcel post. Allow a little extra for weight of packing. CALIFORNIA DOO FOODS are a prepared food containing all the ingredients necessary to maintain health and vigor in the dog. It does away with the cooking and the mess. If good health in your dog is to be maintained you must feed good, clean, wholesome food.

DOG BISCUITS

For grown or Large Dogs, Feed California Meat-Bone Dog Biscuits once or twice a day. Observation is the only means of telling how many biscuits to feed at one meal. Don't feed too much. Dogs are in best condition when not too fat. The biscuits can be fed dry or moist. If fed moist, cook them with vegetables or pour milk, gravy or soup over them. The dry biscuit keeps the teeth and gums in good condition. Gnawing on them produces the saliva so beneficial to digestion. Keep fresh water where the dog can drink at will and give plenty of exercise. If any food is left remove it.

(Bulk) 1 lb., 20c; 2 lbs., 35c; 5 lbs., 85c; 10 lbs., \$1.40; 25 lbs., \$3.25; 50 lbs., \$5.75; 100 lbs., \$11.00.

Puppy Foods

Puppy Biscuits Nut Bone—

A perfect food for puppies. Puppies should be put on these when about two to three months old and continued until about six months old. (Bulk) 1 lb., 20c; 2 lbs., 35c; 5 lbs., 85c; 10 lbs., \$1.40; 25 lbs., \$3.50; 50 lbs., \$6.75; 100 lbs., \$13.50.

Circles or Ovals—Minture oval cakes for puppies and dogs. Ideal pocket size (Bulk) 1 lb., 20c; 5 lbs., 90c; 10s., \$1.70; 100 lbs., \$13.50.

Pup. O—Granulated for puppies, for young puppies, shy feeders or those recovering from sickness. (Bulk) 1 lb., 25c; 5 lbs., 95c; 10 lbs., \$1.80; 100 lbs., \$13.50.

Fish Moss, in bunches, tied with lead; when in stock per bunch, 20c; 2 for.....	.35
Dip Nets—4 in. diameter; 13½ in. handle, each.....	.35
Grottoes, similar to Castles; small, 2½ in. high, each.....	.35
Castles, 3 inches high; for ½-gallon Globes, each.....	.40
Castles, 4 inches high; for 1 gallon Globes, each.....	.50
Castles, 6 inches; for 3-gallon Globes, each.....	.65
Fancy Small Sea Shells, assorted.....	.20
FISH GLOBES—Heavy Glass (By Express or Freight)	
1-quart size; round Globes; each.....	\$0.35
½-gallon size; round Globes; each.....	.60
1-gallon size; round Globes; each.....	1.00
1½-gallon size; round Globes; each.....	1.25
2-gallon size; round Globes; each.....	1.75

Blatchford's CALF MEAL

One pound makes a full gallon of pure milk-substitute at less than half the cost of using milk.

Blatchford's Calf Meal raises calves from babyhood, easy to feed, saves both milk and money. Satisfaction guaranteed with every bag. 25 lb. bag, \$1.65; 50 lb. bag, \$3.15; 100 lb. bag, \$6.00.

GRASS SEEDS

Our stocks are critically grown, of highest germination and purity. Prices fluctuate. Write for prices on quantities.

Bromus Inermis (Hungarian Brome Grass) Remarkable drouth-resister, not injured by frost. Sow 20 to 30 lbs. per acre. Pound, 35c, postpaid. Not prepaid, 10 lbs., \$3.00.

Orchard Grass Furnishes pasture three weeks before any other, and after close grazing a ten days' interval is sufficient for another growth. Makes a heavy sod, which remains for years. Sow from 20 to 25 pounds per acre. Pound, 40c, postpaid. Not prepaid, 10 lbs., \$3.00.

Johnson Grass This variety is considered a pest in the South, but it is highly valued by stock raisers in this climate on account of its extreme bardness in unfavorable situations. While it is tender and will not endure cold winters, yet it is a good drouth resister and is a valued hay grass. Sow at the rate of 30 pounds per acre. Price, lb., 30c, postpaid; 10 lbs., \$2.50, not postpaid. Ask for special price on quantities.

Kentucky Blue Grass Remains green from early spring until snow flies in the fall. It will do well on almost any land. Sow in the fall or spring, 30 pounds per acre. Pound, 70c, postpaid. Not prepaid, 10 lbs., \$6.00.

English or Perennial Rye Grass Produces an abundance of foliage. 30 pounds per acre spring or fall. Pound, 30c, postpaid. Not prepaid, 10 lbs., \$2.00; 100 lbs., at market price.

Meadow Fesque (English Blue Grass)—Excellent for hay and pasturage. Succeeds even in poor soil, roots penetrate deep, stands extremely dry weather. Sow in spring or fall at the rate of 30 pounds to the acre. Pound, 40c, postpaid. Not prepaid, 10 lbs., \$3.00.

Timothy Of hay grasses Timothy leads all. Succeeds on clay or heavy loams, lowlands or in mountainous districts, where there is an abundance of moisture. Alone. 12 pounds to the acre, or with clover, 10 pounds Timothy and 6 pounds clover. Pound, 25c, postpaid. Not prepaid, 10 lbs., \$1.75.

Tall Meadow Oat Grass Out yields Timothy or Orchard Grass, and affords better grazing, becoming very popular. Sown alone, use 30 pounds to the acre, either spring or fall. Pound, 50c, postpaid. Not prepaid, 10 lbs., \$4.00; 100 lbs., at market price.

Red Top Reaches highest perfection in moist, rich soil. Sow 25 pounds per acre. Pound, 45c, postpaid. Not prepaid, 10 lbs., \$3.50.

Sudan Grass Sudan is a tall annual grass, reaching to a height of from seven to nine feet when planted in rows and allowed to mature for a seed crop; broadcasted and cut "in the bloom" for hay, about four feet. It dies each year. Should not be planted until all danger of frost is past. Plant in rows, thirty-six inches apart, using about two pounds of seed; where irrigated, plant in rows eighteen inches apart, using from 4 to 6 pounds per acre. Price, 1 lb., 25c, postpaid; 10 lbs., \$1.25, not prepaid.

Crested Wheat Grass This is an excellent dryland grass but it is entirely different from the Slender Wheat Grass. The seed is much finer and in sowing a pound will cover three times the area. It was brought in from Siberia by the Government Experiment Station. Growers are very enthusiastic about its merits. It is very early, the first to be green in the Spring and the last to dry up in the Fall. For range, pasture and hay it is most highly recommended. It will prove a valuable addition to the meadows and ranges of the West. Price, lb., 60c; 10 lbs., \$5.50.

Western Alkali Grass The seed is very fine and as it stools it should be sown very thin for a permanent crop. Seeding can be done any time from September 1 until spring; broadcast right on the snow and not after the snow is gone and land dries off and starts to crack. Use "Cyclone" seeder, sowing two pounds per acre for meadow or pasture. It is better to keep stock off in the spring, while plant roots are forming and the ground is soft. When instructions are followed, this grass will grow and produce a large crop, on either white or black alkali. It will make a fair crop the first year and a full crop the second year, and stand more summer drouth than any grass I have even seen. The third year will be still better than the second. Price: pound, \$2.00; 5 lbs., \$9.75; 10 lbs., \$19.00.

Western Wheat Grass (Dryland) This grass is a boon for the cattle and sheepmen of the West. It grows in very dry, arid sections and produces wonderful forage for cattle and sheep. An acre of Slender Wheat Grass will pasture more sheep than that of any other variety. There is nothing better for sheep pasture in the canyons or in the flats than this variety. Price, lb., 20c; 10 lbs., \$1.75; 100 lbs., \$15.00.

P.-W.'s Grass and Clover Seed Mixture No. 1 —For Meadows and Pastures

Our well-balanced mixture is made up of a number of native and acclimated grasses and clovers, blended in such a way as to best suit the climatic and soil conditions found in our intermountain regions. Sow 25 pounds per acre. Pound, 45c postpaid. Not prepaid, 10 lbs., \$3.50; 100 lbs., at market price.

Morton Pasture Mixture (For Upland Irrigated Soils)—This is especially adapted to upland soils where water is available for irrigation. It is made up of Brome Grass, Orchard, Meadow Fesque, Timothy and Yellow Blossom Sweet Clover. An acre seeded to this combination will take care easily of 4 to 7 dairy cows. Seed required per acre, 20 to 25 lbs. Price, lb., 35c, postpaid. Not prepaid, lb., 25c; 10 lbs., \$2.25. Ask for quantity prices.

Western Alkali Grass

SUCCESS WITH WESTERN ALKALI GRASS

Commissioner of Agriculture for Utah,
Harden Bennion, Writes:

"My information and acquaintance with what is known as 'alkali grass' is that I have seen this grass growing on land in Duchesne County which was very wet and heavily saturated with alkali. In fact, the ground carried so much alkali that very little, if any, soil could be seen. Some of this grass, growing within fenced pastures, seemed to be particularly attractive to cattle and I think would make very excellent pasture. In my opinion this 'alkali grass' will undoubtedly be a big asset to the owners of alkali lands within our state."

"HARDY DESERET" ALFALFA

This splendid variety has been a boon to the farmers wherever planted. It stands head and shoulders above them as a drouth resister. "Hardy Deseret" is a selection from the far famed Utah Dry Land type. It will live and thrive in the most trying arid situations where all others fail. Its roots pierce the soil until moisture is reached, even a depth of twenty to thirty feet has been traced in some dry localities. It produces even under adverse conditions but in favorable situations under irrigation it is a prodigious yielder. As a dairy, poultry or stock feed it is unexcelled. Very desirable also as a rotate crop since it supplies the much needed nitrogen and humus. All in all no more profitable crop has been grown in this region. Our seed is genuine, thoroughly re-cleaned and dependable. See below.

CLOVER SEEDS

Prices subject to market changes. Ask for quantity prices. Seamless bags extra, at cost. Inoculate All Clovers.

ALFALFA

Grimm This variety is especially recommended for shallow soils or those underlaid with hardpan. The claim made for it is that in addition to extreme hardness it has spreading roots instead of a single top-root and that it makes underground creeping stems. We offer as follows:

"Blue Tag"—Certified seed, purity 99.50%. Price, 55c per lb., postpaid.

"Purple Tag"—Certified seed, purity 99.50%; removed not more than three generations from stock of introducer. Price, 75c per lb., postpaid.

Hardy Deseret Alfalfa This has been especially selected from highland sections of the Mountain States and grown without irrigation, developing a most sturdy type much to be preferred than seed produced under other conditions. Fancy Grade, lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 100 lbs., market price.

ALSIKE CLOVER

Alsike is recommended both for sowing with Timothy and also with the Red and Mammoth Clovers, as well as for a hay crop by itself. It does not winter-kill. The use of Swedish Alsike Clover is increasing rapidly; cattle prefer it to other clovers. It is very fine for honey bees. Sow at the rate of six or eight pounds per acre; sown in mixtures, five or six pounds per acre is sufficient. Lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.00; 100 lbs., market price.

FIELD PEAS

A wonderful crop for fattening Sheep, Hogs and Cattle and very valuable poultry feed. It is also a splendid soil builder and cover crop for Market Gardeners, Orchardists and Farmers. In this connection an added value is given by treating the seed with an inoculator, see page 31.

Culture—Sow in March or early April, although a pea-hay crop can be obtained is sown as late as in July. Early sowing is best, giving full season for matured crop.

When early sowing is made, 30 to 40 pounds of seed per acre makes a crop. If late sowing is made, 60 to 80 pounds per acre is advisable, as the crop does not get to matured growth. Thick sowing will aid in choking out weeds.

Inoculate this seed. See page 31.

Canada Field—This is a small-seeded, very hardy pea, vigorous, thrifty, growing 5 to 6 feet, very productive. Can't be beat for all purposes. Lb., 20c; postpaid. Not prepaid, 10 lbs., \$1.00; 100 lbs., \$6.50.

Prices Fluctuate Rapidly. Write for Special Quantity Prices on All Farm Seeds.

RED CLOVER

Medium (Trifolium Pratense)—It is sometimes called June Clover, and is a dependable, all-round variety for farmers and stockmen. It makes two crops each year. Sow either in the spring or fall at the rate of fifteen pounds to the acre. Lb., 50c; postpaid. Not prepaid, 10 lbs., \$4.00.

SWEET CLOVER—(Bokhara)

(Mellilotus Alba)

White Blossom As a money-maker this has been rightfully named "Alfalfa's Twin Sister." Its value in the redemption of alkaline lands cannot be over-estimated. It grows in a variety of soils—heavy, light, wet or dry, almost anywhere, except in acid soil. Sow at the rate of 10 to 14 pounds per acre. Cover the seed very lightly. Lb., 30c, postpaid. Not prepaid, 10 lbs., \$2.25; 100 lbs., market price.

Yellow Blossom (Mellilotus Oiconialis) Same family

as White Blossom Sweet Clover but it is not so prolific in growth and flowers are yellow instead of white. For bee pasture we believe it to be equally valuable. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$2.75; 100 lbs., market price.

Mellilotus Indica Has become recognized as the legume best adapted for green manuring, easily plowed under and rich as a fertilizer. Per lb., 20c; 10 lbs., \$1.75, postpaid.

Peas for Cooking—Write for prices if interested. We carry both the yellow and green. Lb., 20c, postpaid. Not prepaid, 10 lbs., \$1.00; 100 lbs., \$7.50.

P.-W.'s Improved Leaming

FIELD CORN FOR ENSILAGE

Of all the crops for ensilage, Corn is the most largely used and without doubt the most profitable. Alive to this situation, we have made Ensilage Corn a speciality and we are now able to offer our customers the most profitable varieties adapted to the climate conditions of various sections of the West.

There is perhaps no crop of more value to the dairy farmer during the hot summer months when the pastures are dry, than a nice green field of fodder corn. Though the varieties of field corn we list can be matured and are profit-

able as a grain crop, it is our opinion the greater value is secured in most sections of the Rocky Mountain states by feeding the fodder green, or using for ensilage.

Generally speaking, the seed should be sown in drills 3 feet apart, using 15 to 40 pounds of seed per acre, depending not only on the soil, but also for the purpose for which silage is to be used. Whenever less grain and more bulk is desired more seed may be planted to the acre, giving a greater amount of leaf and stalk but less ear corn.

P.-W.'s Silo Corn No. 1—It is our selection from Improved Leaming and will mature its grain in 100 days, even under unfavorable conditions; and about 90 days where climate conditions are suitable. You will never regret giving it a trial this year. See below for price.

P.-W.'s Silo Corn No. 2—This is a shorter growing variety than P.-W.'s Mountain States Silo Corn No. 1, the height ranging from 8 to 12 feet, depending upon soil and other conditions. Consequently the fodder tonnage is less, but it makes up this loss to a large degree in the increase of grain yield. See below for price.

North Dakota Flint—Excellent White variety, very popular. Small cob, early maturing. Lb., 20c, postpaid. Not prepaid, 10 lbs., 85c; 100 lbs., \$6.00.

Reid's Yellow Dent—Best all around purpose Yellow Dent. Deep yellow, lighter cap; closely packed, slightly rough, grains dented on top. Leaves and stalks make fine ensilage and fodder. Matures in 110 days.

Any of above except where otherwise noted—Pound 20c, postpaid. Not prepaid, lb., 10c; 10 lbs., 75c; 100 lbs., \$5.00.

Australian White Flint (90 days)—The earliest and surest variety. Will endure more drouth and cold than any other variety known. Grows to a height of six to ten feet. Price: Lb., 20c, postpaid. Not prepaid, 10 lbs., 85c; 100 lbs., \$6.00.

P. W.'s Improved Leaming—Ripens in 90 to 100 days. Extra early; not a hardy flinty corn. We can furnish both Utah and Nebraska grown.

Minnesota No. 13—The ears are of handsome appearance bearing 16 to 20 rows of bright, rich yellow, smooth, Wedge-shaped kernels packed closely on the cob from butt to tip. Matures in ninety days.

North Dakota Flint—Excellent White variety very popular. Small cob, early maturing.

Northwestern Dent—Early red dent, extremely hardy—will produce a crop when all other dents fail owing to its frost and drought resistance. Matures in 90 days.

Pride of the North—An exceptionally early Dent variety. Stalks of medium height with broad leaves. For cold valleys where seasons are short it is not excelled.

Australian White Flint

Poor Seeds Are
Dear at Any
Price

MISCELLANEOUS FARM SEEDS

BARLEY

Sow 60 to 90 pounds per acre; on dry land 40 to 50 pounds. Prices quoted are not postpaid.

Naked, Beardless or White Hulls—No beard, shell hull-like wheat. 10 lbs., 60c; 100 lbs., market price.

Trebi Barley—This variety is a recent introduction in this region. Fast becoming very popular. Yields much heavier, larger kernels than any of the other varieties. Price—10 lbs., 75c. Write for quantity price.

FETERITA

From 20 to 30 days earlier than Kaffir Corn, makes good fodder; in some instances made an excellent yield of grain without having received any rain from the day it was planted until it was harvested. Not postpaid, lb., 15c; 100 lbs., market price.

KAFFIR CORN

Is unsurpassed for dry alkali land, on which no better fodder and grain crop grows. Lb., 15c, not postpaid; 100 lbs., at market price.

MILLET

A valuable fodder plant. Makes excellent hay. Sow 25 pounds to the acre. 10 lbs., \$1.50 not postpaid. 100 lbs., at market price.

OATS

Swedish Select—Grain plump, white and very heavy, averaging 40 pounds per bushel. 10 lbs., 50c, not postpaid. 100 lbs. at market price.

Prices On All Farm Seeds Fluctuate Greatly—Write For Quantity Prices. Quotations Will Be Sent By Return Mail.

PEANUTS

Peanuts are a profitable crop. After picking, or threshing, the nuts, the vines make splendid hay; 35 to 40 pounds of unshelled peanuts will plant an acre.

Spanish—This variety is the best suited for growing in the North, being earlier. Postpaid: Lb., 40c; 2 lbs., 65c. For larger quantities ask for Special Prices.

RAPE

It may be sown broadcast, either with other fall forage crops or by itself, using one to five pounds of seed per acre. 10 lbs., \$1.75 not prepaid; 100 lbs. at market price.

RYE

Sow 60 to 80 pounds per acre; on dry land 30 to 40 pounds per acre.

Fall or Winter—A good crop for early fall or spring pasture. 10 lbs., 50c, not prepaid; 100 lbs., market price.

Spring Rye—For summer pasture and grain crop. Lb., 15c; 2 lbs., 25c, postpaid. Write for quantity prices.

SORGUM

Early Amber—Furnished a large yield of most nutritive forage, which can be fed either green or cured, and will yield two or three cuttings a year.

Broadcast for forage sow 60 pounds per acre. In drills, sow 10 pounds per acre. Lb., 25c, postpaid; Not prepaid, 10 lbs., \$1.25; 100 lbs., at market prices.

SUNFLOWER

Russian Mammoth—Sow seed as soon as ground is fit for planting corn, in rows three to four feet apart and about one foot apart in row. Cultivate the same as corn. This variety will yield 1000 pounds or more of seed per acre. Lb., 30c; 2 lbs., 55c, postpaid; for larger quantities inquire for prices.

VETCH

Spring—Valuable for both soiling and as a cover crop. Sow 60 to 75 pounds per acre. Write for prices.

Fall—(Sand or Hairy Vetch)—Valuable for hay or pasture. For hay use 1 bushel per acre, for cover crop 10 to 20 pounds per acre. Lb., 25c, postpaid. Not prepaid, 10 lbs., \$2.00; 100 lbs., Market Price.

WHEAT

All Standard Varieties—(Marquis, Dicklow, Club, Sonora, etc.)—Sow 60 to 80 pounds per acre on irrigated land; 40 to 50 on dry land. 10 lbs., 60c, not prepaid; 100 lbs., market price.

P.-W.'s VEGETABLE SEED SPECIALTIES

On this page and those that immediately follow we list some of the outstanding new or special strains of vegetables of the more recent introductions. Each year we test out at our Centerville Seed Trial Grounds many varieties we gather from all parts of the world. Growing them as we do until maturity and side by side with well known types we are able to compare their merits as to their adaptability to our conditions of climate. In this process of elimination scores, of course, are discarded. Among those of special merit we select the best and pass them on to our customers. Those that we list we can recommend and know that they will be worthwhile. It costs hundreds of dollars annually to maintain these testing grounds, however, it eliminates all guess work and pays handsome dividends in the satisfaction given to our customers. We know that our customers can depend upon the varieties we list to fulfill to the letter all recommendations.

New Coreless Nantes Carrot

This new variety is a development from the popular early Half Long Nantes which has been on the market for a number of years. Like the parent stock, it is one of the earliest of the standard sorts and on account of its fine bright color is a very profitable market variety, especially for bunching, presenting a very attractive appearance. It is sweet and fine flavored and entirely without core, very fine grain. As a market garden variety has proved to be a very valuable acquisition and a money maker, equally valuable for a home garden as an early table sort. Price: pkt., 10c; 1/4 lb., 45c; 1 lb., \$1.50, postpaid. Not prepaid, 1 lb., \$1.40 10 lbs., \$12.50.

P.-W.'s New White Wonder Cauliflower

P.-W.'s New White Wonder Cauliflower

This is a new improved strain developed especially for the most critical market garden trade. In fact we believe it to be the last word in early Cauliflowers. The tests last year showed this variety to be about ten days earlier than the Snowball. The heads are especially even, good size, very solid and finely grained; plant is compact, leaves medium size, pure white and does not yellow even when exposed to very bright sunlight. This was especially bred for keeping heads compact and solid even under most unfavorable circumstances. There is little question but what this will become a market garden leader. Price: Pkt., 15c; 1/4 oz., 75c; oz., \$2.50; 1/4 lb., \$8.50; lb., \$30.00, postpaid.

Five lbs. and over at 10-lb. rates; 25 lbs., and over at 100-lb. rates.

If you want the best seeds of the best strains of Cauliflower yet introduced, something true to name, type and description, and something you can depend upon, send us your order and you will get it. Our seed comes direct to us from Denmark from the world's best specialists, and is equal to any stock offered elsewhere, regardless of price.

P.-W.'s New Coreless Nantes Carrot

P.-W.'s N. Y. Lettuce No. 12

This new strain is a single plant selection from the regular New York or Los Angeles Market strain. It has required several years to develop, but it certainly is a great improvement over any existing type of "New York" Lettuce. It is much earlier, makes large solid heads, uniform in maturing and of the flat head type. The last 2 or 3 years it has been in great demand on the Pacific Coast Markets and is grown largely on the coast for eastern distribution. Several fields of this new strain produced better than 80% cut of No. 1 heads inside of 61 days from planting. Without question this new strain will supplant all others when market growers become familiar with its merits. Price: Pkt., 10c; oz., 30; 1/4 lb., \$1.00; lb., \$2.90, postpaid. Not prepaid, lb., \$2.75; 10 lbs., \$25.00.

P.-W.'s N. Y. Lettuce No. 12

P.-W.'s VEGETABLE SEED SPECIALTIES—(Continued)**P.-W.'s Stone Mountain Watermelon**

This is the outstanding introduction in the melon family for the last few years. It does not carry more than half the seed of other varieties and rind is tough so it can be shipped to distant markets successfully.

It is one of the largest of melons in cultivation and is earlier than many of the older established varieties. Under favorable conditions fruits weigh from 60 to 80 pounds and will ripen in 90 to 95 days from date of planting.

The fruits are almost round, being a little longer than wide, and are slightly flattened on the ends with shallow creases which give a slightly ribbed appearance. The exterior is green, faintly marked with irregular, darker veining.

The flesh is brightly colored, exceptionally solid, sweet, tender and juicy. As a home garden and market variety this will prove very satisfactory where an extra large, round melon of fine quality is desired. Seed white. Pkt., 10c; oz., 20c; 2 oz., 35c; ¼ lb., 55c; lb., \$1.75. Not prepaid, lb., \$1.65; 10 lbs., \$15.00.

P.-W.'s Stone Mountain Watermelon

P.-W.'s Golden Sunshine Sweet Corn

This new introduction is a cross between Golden Bantam and that exceptionally early white corn, Portland Early Market. The Sunshine fills a long felt want for a Golden Bantam type which will come on the market earlier than that variety, to compete with the first early white corns. Sunshine is ready for market a week to ten days before Golden Bantam, in fact will be off the market before that variety is ready. The plant growth is more dwarf and the ears closer to the ground. The ears are the same size as Bantam but 12-rowed instead of 8, of equally good color and with a high quality grain. Sunshine will be a Money Maker for the Enterprising Gardener. Pkt., 10c; lb., 25c; 3 lbs., 70c, postpaid. Not prepaid, lb., 20c; 10 lbs., \$1.75; 100 lbs., \$16.00.

P.-W.'s Wonderful or Golden Plume Celery (See Cut)

This new variety is rightly named "Wonderful." It is a decidedly distinct type, ten to twelve days earlier than Golden Self-Blanching and very much superior in eating quality. Plants are very large in size, short, stout, stocky and full of heart. It blanches easily to a beautiful, clear, creamy white color. Vigorous grower, disease resistant. Plants grown under favorable conditions average about four pounds. It is decidedly a worth-while sort and no Market or Home Gardener should fail giving it a trial. Pkt., 15c; oz., \$1.25; ¼ lb., \$3.50; lb., \$10.00, postpaid.

P.-W.'s New Scarlet Globe Radish

This superior strain is the result of individual plant selection. The roots of this variety are slightly olive shaped and are a rich, bright scarlet in color. The flesh is white and tender. The roots are fit to pull very early and remain a long time in prime condition. We specially recommend this to gardeners as a large, first early forcing radish. It is also desirable for first early planting outdoors for the home garden and market. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00. Not prepaid, lb., 85c; 10 lbs., \$8.00.

Good Seeds are the Foundation of Good Crops. No guess work with our Tested Seeds.

5 lbs., and over at 10-lb. rate; 25 lbs. and over at 100-lb. rate.

P.-W.'s Golden Sunshine

P.-W.'s New Scarlet Globe Radish

P.-W.'s Wonderful Celery

**P.-W.'s
White Sweet
Spanish** **P.-W.'s
White Sweet
Spanish****P.-W.'s White Sweet Spanish Onion**

This new Spanish type of onion is identical in shape and size and habits of growth to the P.-W.'s Sweet Spanish Onion, Valencia type, see page 64. The chief difference being the outer skin of the White Sweet Spanish in pure white while the other is a brownish yellow. Our observation of this onion at our own Trial Grounds, as well as experience of growers in the Salt Lake Valley, would indicate that it requires a slightly longer maturity season than the regular type of Sweet Spanish. It has the advantage of the beautiful white skin which make it a more desirable onion for market. The flavor is unusually sweet and mild. In sections where it can properly be matured it is a good keeper and possesses excellent shipping qualities. The size of the bulb and the yield is just as large as the Yellow Sweet Spanish. Our seed strain has been more critically developed through long selection and we are sure no better seed can be found anywhere at any price. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., 2.25; lb., 7.50, postpaid. Not prepaid, lb., \$7.40; 10 lbs., \$72.50.

**P.-W.'s Laxton
Progress Pea** **P.-W.'s New World's Record Pea**

This is an improved type of Gradus, being slightly earlier, more dwarf, true to type and more productive. Height 2 feet. Vines moderately stout, medium green; pods medium green, 4 inches long, fairly broad, pointed and well filled with 7 to 9 very large, dark green peas of exceptional quality. Bound to win a place with every Market Gardener who will give it a trial. Pkt., 10c; lb., 30c; 2 lbs., 55c, postpaid. Not prepaid, lb., 25c; 10 lbs., \$1.80; 100 lbs., \$16.00

P.-W.'s Laxton Progress Pea

This remarkable new variety is a true wrinkled sort. Trials show last year that green peas were ready for use three to four days earlier than P.-W.'s Laxton Superb. Vines grow to an average height of 15 inches, heavy dark colored foliage. Pods are large, pointed, very dark green color averaging $4\frac{1}{2}$ inches in length. Peas remain tender and sweet for a long time after being picked from the vines. It has dwarf habit of growth, extreme earliness, attractive deep green color combined with the fact that it is a true wrinkled, large podded sort will, without question, make this a leading market garden type for early use. Pkt., 10c; lb., 35c; 2 lbs., 65c, postpaid. Not prepaid, lb., 30c; 10 lbs., \$1.90; 100 lbs., \$17.00.

You might buy seeds the equal of ours from other equally painstaking seedmen, but we have gone to a big expense to make sure that you can get none better anywhere than **P.-W.'s MOUNTAIN GROWN SEEDS AND TREES.** Let us prove that they really "are more vigorous."

Hale's Best Early Muskmelon

This new variety comes from the Imperial Valley in California. It is a melon of decided merit that will fill a long-felt want in long distance shipping because of its earliness. Checking the several tests on this melon, the average period required is 68 days, and some of the tests were made in sections where the season was remarkable for its coldness. It is a salmon flesh melon of exceptional thickness. The shape is oval. Average size is 8x4½ inches with very heavy netting with fairly prominent ribs. There is no question but what it will be a very valuable market garden variety as it leads the list in earliness among the desirable types of cantaloupes. **Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50, postpaid. Not prepaid, lb., \$1.40; 10 lbs., \$12.50.**

Super Perfecto (Pink Tint) Muskmelon

A new type of the Rocky Ford, showing a trace of Burrell's Gem. The seed cavity of triangular and the flesh extremely thick, sweet and spicy. There are two strains, the salmon tint and the pink meat, but we believe the pink to be the better. The melons are almost perfectly round, heavily netted, no ribs, and the shipping qualities are splendid. We think the Perfecto will supercede many of the older shipping varieties. Edible in 96 days. Average size, 6x5 inches. Weight 3 pounds. **Pkt., 10c; oz., 20c; ¼ lb., 55c; lb., \$1.90, postpaid. Not prepaid, lb., \$1.75; 10 lbs., \$15.00.**

Hales Best Early Muskmelon

Persian Muskmelon

While not properly a casaba, the Persian is also of tropical origin. It shows no trace of ribs and is completely covered with netting. The shape is oblong, the flesh extremely thick and pink in color. It is a large melon, weighing about 10 pounds. Edible in 102 days. Size 12-10 inches.

A good keeper and a good shipper. It should be picked while yet quite solid. Customers should be educated to purchase half a dozen at a time and set them away to be eaten as they become mellow like a Casaba. When properly picked they are ready for the table within six to ten days. **Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.85; 10 lbs., \$16.00.**

To secure earlier melons use Hot Caps. (See page 25)

P.-W.'s Wonder Bell Pepper

We believe this pepper to be a great find, especially for the market gardener. Its beautiful appearance, regularity in size and shape, make it very desirable for shipping. The plants are of vigorous growth and covered with enormous peppers about 4 inches in length and about 3½ inches in diameter at the top, slightly tapering toward the bottom.

Peppers are deep green, turning to brilliant red with very thick flesh of sweet, mild, pleasant flavor. The weight of the average size is approximately 9½ oz. This variety will prove not only valuable for market, but for the Home Gardener as well. **Pkt., 20c; ¼ lb., 30c; oz., \$1.00; ¼ lb., \$3.00; lb., \$10.00 postpaid.**

P.-W.'s Longfellow Cucumber

To supply an ever increasing demand for a cucumber which, when grown out of doors, would have the slender, dark-green appearance of a hothouse product, we present the "Longfellow." This variety, unlike most other sorts, succeeds equally well in the garden or the greenhouse. The Longfellow is a White Spine type with an admixture of Emerald Blood, from which it gets its intense dark-green appearance. The vines are exceptionally healthy and productive and fairly early. The fruits will average 12 to 14 inches in length by 2½ inches in diameter and are very symmetrical. The color is all that could be desired and this variety will retain its dark-green color shipped to distant markets. An ideal type for the private garden or as a "straight pack" variety for shipment, boxed to high grade markets. **Pkt., 10c; oz., 20c; ¼ lb., 65c; lb., \$2.00. Not prepaid, lb., \$1.85; 10 lbs., \$17.50.**

Vaughan's
Cucumber

After a series of competitive tests we are convinced this meritorious variety is identical with P.-W. Longfellow.

P.-W.'s Longfellow Cucumber

ORDER EARLY

In January and February, if possible, before the Spring rush begins. March and April are our busy months and our full force works almost day and night under high speed. We allow 5% discount for the privilege of filling your order **BEFORE MARCH 1**. On all orders from this catalog reaching us during January and February, this discount will apply, thersafter no deductions allowable.

5%

ASPARAGUS

Sow early in the spring, in a bed of light, rich, well manured soil, in drills one foot apart. When the plants become withered, cut them down and spread well rotted stable manure two inches deep over the bed. Let the plants remain in the seed bed until they are about to grow, early in the spring.

For private garden use, set in rows two feet apart and the plants about a foot apart in the row, with crowns four inches below the surface, and spread the roots. For field culture, the rows should be six feet apart and two feet apart in the rows.

Before winter cover the transplanted beds with about four inches of manure and fork it in the next spring, being careful not to injure the roots. In autumn cut the ripe tops and burn the refuse. One pound of good fresh seed will produce plants sufficient for an acre, and an ounce of seed will sow a fifty-foot drill.

Conover's Colossal—The standard variety for all purposes. Large, thick, wide, tender shoots of very greenish-white color.

Barr Mammoth—Large and tender.

Palmetto—Light green.

P.-W.'s Early Giant Argenteuil—Special strain of this famous Parisian Asparagus. Grows to a large size, free from rust, superb flavor. Locally a favorite for canning.

Any of above—Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., 75c, postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00.

Washington Rust Resistant Most uniform in type; blight and rust resistant; large and excellent quality. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50, postpaid. Not prepaid, lb., \$1.40; 10 lbs., \$12.50.

New Mary Washington This is a new development from the Washington rust resistant variety. It comes into market earlier and has all the rust resistant qualities of the old type. The advantage of earliness is, of course, a very great one for all market growers. The shoots are large size, excellent quality, deep rich green color with a trifle purple tint at the tips. Pkts 10c; oz., 20c; ¼ lb., 60c; lb., \$1.75, postpaid. Not prepaid, lb., \$1.65; 10 lbs., \$15.00.

Asparagus Roots

Strong one year-old roots of any of the varieties listed above, 30c per doz.; \$1.50 per 100, postpaid. Not prepaid \$1.00 per 100; \$8.00 per 1000.

Two-year-old roots—50c per doz.; \$2.75 per 100, postpaid. Not prepaid, \$1.75 per 100; \$12.00 per 1000.

CHIVES—Allium Schoenoprasum

An onion-like plant used as a salad and for flavoring soups. Also, the plant makes an excellent ornamental garden bed edging which may be frequently cut, a new growth of leaves appearing soon after each cutting. One sowing will answer for about three years. Pkt., 10c; ¼ oz., 25c; oz., 85c. **Plants**: 25c per bunch; two for 45c, postpaid. Not prepaid, 20c each; \$2.00 per dozen.

Brussel Sprouts

ARTICHOKE

Artichokes are cultivated for the edible bud that resembles the giant thistle. The plants want a very rich soil and plenty of moisture. The seed should be planted in boxes in February and transplanted in the field about the latter part of March or April. With slight winter protection they will remain in bearing three or four years.

Large Green Globe—The most popular variety, buds large, globular, deep green, with a slight tint of purple at base. Pkt., 10c; oz., 50c; ¼ lb., \$1.85; lb., \$6.00 postpaid.

Jerusalem (Tuberous Rooted)—For hog pasture. When once established it is hard to kill out. Lb., 25c; 10 lbs., \$1.50, postpaid. Not postpaid, 100 lbs., \$10.00.

Brussels Sprouts

The plants are very hardy and grow from two to three feet high, bearing a large mass of leaves at the top. The sides of the main stem are covered with three or four dozen small cabbage heads which are broken off and cooked the same as cabbage, which see for cultural directions.

Imported Long Island Dwarf—Produces an abundant crop of firm, well formed sprouts, thickly set around. Pkt., 10c; oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

Broccoli

Italian Green Sprouting—A plant of the cauliflower family which, after the first head has been harvested produces branching sprouts on which are small loost heads, two inches in diameter, which are cooked like cauliflower. The flavor is delicate and delicious. Pkt., 20c; oz., 70c; ¼ lb., \$2.50.

Chicory

Sow seed the same as for late cabbage plants. The crop of green may be transplanted and set a foot apart in the rows. Best after being touched by frost. One ounce will produce about 3,000 plants.

Large Rooted Madgeburg—Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., \$2.70, postpaid.

Collards

Sow seeds as early in the spring as the ground can be prepared in a rather light, moderately rich soil, in drills two or two and one-half feet apart, for either garden or field culture. When plants are sufficiently large, thin to six inches apart in the row. Cultivate well and in the fall dig the roots, slice them and dry in an apple evaporator or kiln constructed for the purpose.

Creole or Southern—Cabbage, Greens, used as a substitute for cabbage in the south. Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., \$2.00, prepaid.

Corn Salad

Sow in spring in drills a foot apart; it will mature in six or eight weeks. For winter and early spring use, sow in drills in August or September. Three ounces to 100 feet of drill. Large seeded.

Broad Leaved—Pkt., 10c; oz., 25c; ¼ lb., 75c, postpaid.

STRINGLESS BEANS

Most people concede there is very little difference either in flavor or tenderness between the wax-podded and the green-podded types. Precisely the same culture should be given to each. In both classes there are round and flat podded varieties; it is thought the round are a little more brittle and the flat are better yielders.

Culture—Beans are somewhat tender, but it often pays to take some risks. Plant in warm, loamy soil at the beginning of settled, warm weather in spring, and at intervals for succession until August. Rows may be made 2 feet apart, and the beans planted a few inches apart in the drills, or 3 or 4 beans in hills, 6 to 8 inches apart. If the ground is dry and irrigation necessary to sprout the beans, irrigate the ground first, planting the seed as soon as the ground is dry enough to prepare for the seed. Beans require very little water. After each irrigation or rain mulch the soil as soon as it is in good working condition. This will conserve the moisture and require less water. Cultivate frequently and shallow; but never when the vines are wet. One pound will sow 100 feet of drill, 60 lbs. per acre.

IT IS NOT GENERALLY KNOWN THAT—

When your hush varieties of string beans have borne a crop don't pull them up but as soon as you have finished the last picking, cut the hush off about six inches above the ground. A new growth will appear and in a remarkable short time bear another crop of beans. The same is true of Fordhook Limas.

Green Podded Beans

The green podded beans are by far more popular, and much more universally grown than the wax varieties. Burpee's Stringless Green Pod is the popular favorite wherever grown and used. As a home garden variety it is in a class by itself, but is too tender for shipping any distance, and rather light colored for canning. It is medium early and quite productive. Giant Stringless Green Pod is a larger type of Burpee's Stringless Green Pod, hush and pods larger and a deeper green, more productive and a few days later. A decided favorite with the market gardener on account of its large pods and heavy yielding qualities.

The yield of beans can be greatly increased by seed inoculation. See page 31 for prices.

Bountiful—The pods are very long, six to seven inches, straight, broad flat, light green, or handsome appearance and absolutely stringless for snaps. They are tender and brittle, much longer than most sorts. The pods are longer, broader and have much longer tips than those of Long Yellow Six Weeks. Seed medium sized, kidney shaped, light yellow and brownish circle about eye. Bountiful is a most desirable early sort for snaps for the home garden.

Full Measure (Bush Kentucky Wonder) — A stringless Round Green Pod Bean, and on account of quality and productiveness is growing in popularity each year.

Giant Stringless Green Pod—An immense

Price—Any of above varieties, Pkt., 10c; 1/2 lb., 20c; lb., 35c; 3 lbs., \$1.00, postpaid. Not prepaid, 10 lbs., \$2.00; 100 lbs., \$17.00

Stringless Green Pod

type of "Improved Early Valentine" and nearly as early. The pods have all the excellent qualities of the original with much greater size, which greatly improves the appearance. A splendid succession sort to Stringless Green Pod.

Burpee's Stringless Green Pod—Excellent early variety. Unexcelled for canning. A standard everywhere.

Early Red Valentine — Early, tender, heavy yielder.

Black Valentine — Pods long, straight, heavy yielder; rustproof.

Refugee or One Thousand to One—Pods about five inches long, round curved, light green, slightly stringy. Used extensively for canning.

Wax Podded Beans

New Penoll Pod—This variety is our selection as the best for the home garden or for near-by markets. It is extremely productive, bearing magnificent, straight, pencil-shaped pods, six to seven inches in length, or a rich golden-yellow color; beautifully rounded, meaty, deeply saddle-backed, fresh, brittle, solid and entirely stringless and of mild, sweet flavor.

Price—Any of above varieties, Pkt., 10c; 1/2 lb., 20c; lb., 35c; 3 lbs., \$1.00, postpaid. Not prepaid, 10 lbs., \$2.00; 100 lbs., \$17.00.

Proliflo Dwarf Black Wax—The pods are quite round, very fleshy, crisp, tender and stringless. A good market sort, being a prodigious yielder.

White Kidney Wax—Hardy, productive, desirable where white-seeded midseason sort is wanted.

Improved Rust-Proof Golden Wax—Early, productive; pods are long, nearly straight, broad, flat, very fleshy; good snap bean.

ORDER EARLY

In January and February, if possible, before the Spring rush begins. March and April are our busy months and our full force works day and night under top pressure. We allow you 5% discount for the privilege of filling your order BEFORE MARCH 1.

5%

POLE AND RUNNING BEANS

These beans require a pole or trellis to climb on, if planted in the garden, although if raised in the open field they need no support whatever. Set poles four feet apart each way and plant four to six beans about one inch deep around each pole. Thin out to three plants to a hill, if soil is rich. Pinch off ends of plants when they overrun poles, to get more perfect growth below. One pound will plant about 75 to 100 hills.

Kentucky Wonder or Homestead—The pods are very thick, meaty and deeply saddle-backed and entirely stringless. Bright yellow in color. The best variety of this class for all purposes. Pkt., 10c; ½ lb., 20c; lb., 35c, postpaid. Not prepaid, 10 lbs., \$2.25; 100 lbs., \$20.00.

Lazy Wife—Pods medium dark green color, grown in abundance; measures from 4½ to 6 inches in length, broad, thick, fleshy and entirely stringless. Make excellent shell beans. Pkt., 10c; ½ lb., 20c; lb., 35c, postpaid. Not prepaid, 10 lbs., \$2.25; 100 lbs., \$20.00.

Pole Lima (King of the Garden)—Pods large, straight and handsome. The pods frequently contain five or six very large beans. These beans are of excellent quality, easily shelled. Pkt., 10c; ½ lb., 25c; lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.00.

Scarlet Runner—This well known and old fashioned climber has a bright scarlet pea-like flower. It not only holds its place as a flower, but the pods when young are fine quality for cooking. Pkt., 10c; ½ lb., 25c; lb., 45c. Not prepaid, 10 lbs., \$3.50.

Kentucky Wonder (Old Homestead)

DWARF LIMA BEANS

We recommend the Dwarf or Bush type as being much more desirable than the Pole Limas. They are of easier culture as the vines require no support; the beans are fully equal in quality and yield, maturing much earlier; a very decided advantage, especially for the Mountain States. Plant the seed, if possible, in rich light soil after all danger of frost is over. For kitchen garden the rows should be about 18 inches apart and for field cultivation two or three feet; drop the seed 3 to 4 inches apart in the row covering 1½ to 2 inches deep; to six beans in a hill. Limas will not thrive in over moist soils. Of the great number of varieties tested out we have selected two which we think best adapted.

Fordhook Bush Lima—The highest quality Bush Lima Bean, it is the old "Potato" or "Kummerle" improved. This new sort grows very erect, does not come in contact with the ground as did the older sort, named above; pods are twice the size of the "Kummerle" and contain 4 to 5 large thick, beautiful green beans. In contrast with the old sort, which was dry and mealy, this new Fordhook is tender, sweet and juicy; a richly palatable bush lima bean. Pkt., 10c; ½ lb., 25c; lb., 40c, postpaid.

Burpee's Improved Bush Lima—Our trials show this to be the earliest maturing of all the large-seeded Limas, and it is the equal or better in all the other qualifications that go to make up a desirable bean, either for the home garden or for market. This variety is decidedly best for all purposes of the Large Limas. Pkt., 10c; ½ lb., 25c; lb., 40c, postpaid.

Henderson's Bush (or Dwarf Sieva)—This variety is sometimes known as "Butter Bean." It is one of the earliest dwarf sorts, extremely hardy and productive. The plants grow without runners and continue to grow and set pods until killed by frost in the fall. Pkt., 10c; ½ lb., 25c; lb., 40c, postpaid.

Quantity prices on all the above. Not prepaid, 10 lbs., \$3.00; 100 lbs., \$27.50.

SHELL BEANS

All of the sorts we list under this division are grown exclusively to use as shell beans for winter use. They are grown extensively as a field crop. For horse cultivation they should be sown in rows three to four feet apart, dropping about three seeds to the hill one foot apart in the row. Bean drills are used on large acreages. The quantity per acre sown varies with the sort and soil condition all the way from 10 lbs. to 40 lbs. per acre. For dry situations by all means use the Merican Pinto, but where water is plentiful and you are growing for market, the White Navy is the best known commercially. The Pink Eye is a splendid variety for home use.

Great Northern — Very popular white shell bean, similar to **White Navy** being a little more elongated and a trifle larger. Pkt., 10c; lb., 15c, postpaid. Not prepaid, 10 lbs., \$1.00; 100 lbs., \$7.50.

Pink Eye — Large winter shell bean; white with pink spot at center. Pkt., 10c; lb., 25c, postpaid. Not prepaid, 10 lbs., \$1.75; 100 lbs., \$15.00.

White Navy — The well known small white Boston baking bean. Pkt., 10c; lb., 20c, postpaid. Not prepaid, 10 lbs., \$1.00; 100 lbs., \$7.50.

English or Broad Windsor—Immense size; known as the horse bean. Pkt., 10c; lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00.

Mexican Red—Valuable red shell bean in demand for making "Chili." Pkt., 10c; lb., 20c, postpaid. Not prepaid, 10 lbs., \$1.00; 100 lbs., \$7.50.

Inoculate Beans. Helps make a bigger crop and improves the soil. See page 31.

Burpee's Improved Bush Lima.

**P.-W.'s Improved
Detroit D. Red**

**The Leading
Market
Variety
To Date
"It Beets All"**

TABLE BEETS

One Ounce 50 Feet; 4-6 Lbs. Per Acre

The soil best suited for beet culture is that which is rather light and well enriched. Sow in drills one foot apart and one inch deep, as early as the ground can be worked. When the young plants are two or three inches high, thin to five or six inches. The young plants that pulled out make delicious "greens," considered by many superior even to spinach. It is a common practice to plant the seed extra thick to assure an abundance of these tender, fresh plants to use for this purpose. Sowings should be made for succession at least once a month up to the first of July, then making a large sowing to produce of well grown roots for winter use.

After repeated comparative tests we recommend P.-W.'s Early Wonder as the best first early for market gardeners. For all purposes and general planting the Detroit Dark Red is still the leader.

Detroit Dark Red Extended experience has shown this variety to be the best deep red turnip beet. Tops small, upright growing, so that the rows may be close together; leaves, stems and vines dark red, blades green; roots globular or ovoid, peculiarly smooth; color of skin dark blood red, flesh bright red zoned with a lighter shade, very crisp, tender and sweet, and remaining so for a long time. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 95c, postpaid. Not prepaid, lb., 85c; 10 lbs., \$7.50.

Early Wonder Beet This comparatively new introduction is the earliest of the table varieties. It is globe shape and very uniform in size, skin smooth, flesh a deep blood red, making it especially desirable for pickling and canning. The tops are small and deep colored. It is fine flavored, remaining tender and crisp for a long period. For a first early type it is unexcelled either for home use or market garden. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 95c, postpaid. Not prepaid, lb., 85c; 10 lbs., \$7.50.

P.-W.'s Dark Leaved Globe Leaves are deep green, stems and veins of the darkest red. The roots are uniformly globular, possessing a deep blood red smooth skin, flesh rich dark zoned with a lighter shade, very sweet, crisp and tender. Price: pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.15; 10 lbs., \$10.00.

Crosby Egyptian—Very Early Globe shaped.

Extra Early Egyptian—Popular early forcing or market.

Eclipse—Almost as early as the Egyptian, finer quality.

Improved Blood Turnip—Very regular, deep blood red.

Any of above, except where noted—Pkt., 5c; oz., 10c; ¼ lb., 50c; lb., 90c, postpaid. Not prepaid, lb., 80c; 10 lbs., \$7.50.

SWISS CHARD (Spinach Beet)

(The City Man's Garden)—This vegetable gives maximum returns for minimum space. Sow early in spring, in rows sixteen inches apart, and thin out to six inches apart in the rows. It can be used all summer when spinach is not available.

Lucullus Swiss Chard—A new moss curled sort. Very large leaves. The mid-ribs are very broad and form a good substitute for asparagus during the summer months. The leaves are very large and tender and may be cut continuously from June until frost; cooked and eaten the same as spinach. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25. Not prepaid, 10 lbs., \$10.00.

Early
Wonder

Early Flat
Egyptian

Crosby's
Egyptian

Early
Eclipse

Detroit
Dark Red

Early
Blood Turnip

Outline Chart Illustrating Beet Types and Their Relation to the Ground Line

BEETS—For Stock Feeding

The tremendous importance of stock beets to every stock and dairy farmer in America should be shouted from the housetops. The farmer who is not awake to the money making possibilities of this crop has overlooked one of the most profitable crops known to agriculture. Just think of it: A yield of from 20 to 60 tons per acre and the feeding value, pound for pound, almost equal to grain; conservatively figured, just the average yield, therefore, would be the equivalent to a 1,000 bushel yield of oats, as far as feed value is concerned.

CULTURE—Sow seed in drills 24 to 30 inches apart and thin to about nine inches in row. Requires 8 to 10 pounds of seed per acre.

P.-W.'s Giant Sludstrup Wonderful yielder, grows cylindrical in shape and largely out of the ground; easily harvested. Crops as high as fifty tons to the acre are not unusual. Color of skin reddish yellow above the ground and light rose tint underneath.

Giant Half-Sugar White Mangel—This half-sugar beet supplies a food of very much higher nutritive value for feeding purposes, pound for pound, than sugar beet, and the yield is more than double. Early harvested.

Royal Giant or Half-Sugar Rose—Similar to the Giant Sugar, except color of skin.

Improved Mammoth Long Red Mangel The extra large, long roots are blood red in color and very nutritious. Enormously productive, yielding, under favorable conditions, as high as 70 tons per acre.

Golden Tankard—Flesh yellow, differing from others; sheep prefer it; a heavy yielder.

Danish Red Giant Eckendorfer—Of cylindrical form growing above the surface; heavy cropper.

SUGAR BEETS

Klein Wanzleben—This variety is the best in cultivation, not largest, but richest in saccharine.

Any of the above, Pkt., 5c; ¼ lb., 20c; 1 lb., 50c, postpaid.
Not prepaid, lb., 45c; 10 lbs., \$4.00; 100 lbs., \$35.00

STOCK CARROTS

Sow in drills far enough apart for horse cultivator and thin out in row to 5 to 6 inches. Requires about three pounds of seed per acre. We consider the **Improved Short White** the best Stock Carrot, all things considered. If a yellow carrot is wanted **Improved Long Orange** will give good returns.

Improved Long Orange A well-known standard sort, roots long, thickest near the crown, tapering regularly to a point; color deep orange. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 85c. Not prepaid, lb., 75c; 10 lbs., \$7.00.

Mastodon—Very productive, large white. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 85c.

Improved Short White—This is the best and most productive for stock feeding. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 85c. Not prepaid, lb., 75c; 10 lbs., \$7.00.

TABLE CARROTS

Sow at any time in spring in deep, loose, soil, preferably sandy loam, about one-half inch deep, in rows eighteen inches apart and thin to three inches apart. Water freely at all times. One ounce 150 feet of row, 4-6 lbs. per acre.

Giant Half-Sugar Mangel

P.-W.'s New Corless Chantenay This is one of the handsomest and best carrots for both home and market. It matures in 68 days. It is a half long, stump rooted sort, almost identical in shape with the old Chantenay. It is a heavier cropper than Danvers Half Long. The root is smooth, uniform and handsome. It shows red all the way through without any yellow core whatsoever. This makes it additionally attractive for salad and cooking purposes. The flesh is sweet and tender and never becomes stringy. Price: Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.10; 10 lbs., \$10.00.

Chantenay (The Market Gardener's Favorite.) Tops medium sized, necks small, roots tapering slightly, but uniformly stump-rooted and smooth color, deep orange-red flesh, very crisp and tender; heavy cropper and undoubtedly one of the best standard sorts for both the market and private garden. It is also desirable as a field sort. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00, postpaid. Not prepaid, lb., 85c; 10 lbs., \$7.50.

Danvers Half Long An old, popular variety and in the past the most largely used, not only for stock raising, but for table use as well. Color is a bright orange scarlet; is very heavy cropper. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid. Not prepaid, lb., 75c; 10 lbs., \$7.00.

Oxheart (Guerand)—Very distinct and desirable, smooth and handsome, thick and blunt-rooted, about 6 inches long, a rapid grower and of fine quality; color, orange-red; a good all-season carrot. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00.

P.-W.'s Corless Nantes—see novelties.

Early Scarlet Horn—Deep red flesh, tender and delicate. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50, postpaid. Not prepaid, lb., 90c; 10 lbs., \$8.50.

Nantes (Half-long Scarlet Stump Rooted)—Roots average about 6 inches in length, smooth, orange color flesh yellow center, very tender of finest quality. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00, postpaid. Not prepaid, lb., 90c; 10 lbs., \$8.50.

P.-W.'s Coreless Chantenay

CAULIFLOWER

P.-W.'s PERFECTION (Improved Snowball)—We obtained this grand new strain from a Danish specialist. Our tests show it to be the peer of all yet developed. It is adapted for either early or late fall use. It possesses all the good qualities of the best Early Snowball strains. The leaves are longer than the Snowball varieties, and enfold closely over the heads, giving a particularly attractive appearance when displayed for sale. The inner leaves almost cover the snow-white heads, bleaching them nicely, thus avoiding the necessity of early tying of the leaves, as is necessary with other early sorts. Another noted trait of distinction is its uniformity in maturing, enabling the grower to harvest practically all of the crop at one cutting. Its sure heading characteristics are remarkable and superior to any other strain that has come under our observation. It produces beautiful snow-white, compact, solid heads uniformly of good size and excellent quality. **Pkt., 10c; ¼ oz., 75c; oz., \$2.25; ¼ lb., \$8.00; lb., \$28.00.**

P.-W.'s DANISH GIANT (Dry Weather Cauliflower) It is very similar in growth, size and other characteristics to the Early Snowball. Its main feature is the fact that it will stand an unusual amount of dry or warm weather and still produce large, solid heads. In some climates, where heretofore it has been impossible to grow good cauliflower, this fine variety has proven a success. It is ready for market or table about a week later than Extra Early Erfurt. **Pkt., 10c; ¼ oz., 65c; oz., \$2.00; ¼ lb., \$7.00; lb., \$25.00.**

Early Snowball—The well known stand by which it has been so long a favorite of home and market gardeners. It is just as good as ever. Suitable for either early or late planting. Under favorable conditions nearly every plant will make a fine, solid head of good size. **Pkt., 10c; ¼ oz., 75c; oz., \$2.25.**

P.-W.'s NEW WHITE WONDER—(See Novelties)

Pc-Tsai
Chinese
Cabbage

Wonderful
Poultry Food

CULTURE

Plant the seed in heds in May for fall crop, and transplant to garden or field the latter part of July. For early summer crop, plant the seed in hotbeds in January or early in February and the plants will be ready for the field as soon as danger of frost is over. Young plants should be thinned, since they become very spindly if allowed to grow too thick.

Transplant to the field, they should be set in rows two feet apart each way. If they are hardened before setting in the field and the growth is not checked, they will head well. One ounce of seed produces 2000 to 2500 plants. It requires about 10,000 plants for an acre.

CAULIFLOWER PLANTS

Strong, well-hardened transplanted plants of Early Snowball and P.-W.'s Perfection will be ready in April and May. **Price, 35c per dozen; \$1.75 per 100, postpaid. Not prepaid, \$1.00 per 100; \$8.50 per 1000.**

P.-W.'s Danish Giant (Dry Weather)

"PE-TSAI" CHINESE CABBAGE

The wonderful green for poultry from China which has been known to yield three tons in a space 40x60 feet. You can't beat this for **Cheap Green Feed**. A half pound Chinese Cabbage Seed will furnish enough greens to feed about 1000 hens for 4 months and 3 pounds to an acre for 6,000 hens for 4 months. The cultivation is similar to that for winter cabbage, spinach or lettuce. Sow seed any time through the year in rows a half inch deep and 24 inches apart, allowing about 2 inches between the seeds. Cultivated and irrigate ground well. **Do not allow ground to dry out.** It produces 5 to 7-pound heads in sixty days. It has large outside leaves with a yellow striped color and the inside leaves grow round, more like the Cos-lettuce. The heart is pure white, tender, sweet, and crisp. The young leaves are very popular for use in salad. It is hardy and will keep until early spring if placed in the cellar. The tender leaves make it a desirable plant for poultry greens; cheaper and much more desirable than alfalfa. Try it for your hens. One ounce will sow 100 feet of row. **Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$3.50, postpaid. Not prepaid, 10 lbs., \$30.00.**

CABBAGE FOR ALL SEASONS

As with all other seeds, our selection of cabbage stocks are positively from the best sources of supply, and the best strains obtainable, as proven by our own test:

Culture—Cabbage does best in rich, moist, well prepared soil; extra care should be taken in working it deeply as most varieties of cabbage do not thrive in shallow soils. For the early varieties in the mountain states and similar climatic conditions sow in hotbeds in the late winter or very early in spring and transplant to the open ground as soon as ground can be worked. Don't neglect to "harden the plants off" before transplanting and see to it that they are not so thick in the beds as to make them spindly. In transplanting to the open ground set in rows 18 to 24 inches apart and 12 to 18 inches between plants in the row. For field cultivation three feet between rows would be better. The fall and winter varieties can be handled in the same way or if the seedling is in good condition an easier and equally successful method is to sow the seed in hills or with a regular garden drill in the open ground using about one pound of seed per acre; when plants are well out of the ground thin out to proper distances in the row. One ounce 1500 plants; half-pound to transplant an acre.

About pests—If bothered with cabbage worms, use arsenate of lead and for cabbage louse or aphids, Black Leaf 40 is effective.

Vitaminee in Cabbage Increase Consumption—Recent investigations have shown cabbage to be rich in vitamins and as a result of a national campaign to promote the eating of cabbage, cabbage sales are increasing by leaps and bounds. It has been proven that cabbage is a great aid to digestion and people are demanding cabbage as never before.

Copenhagen Market

"P.-W.'s
Golden
Acre"

Copenhagen Market

We offered this for the first time in 1913 and it certainly has more than fulfilled our expectations. Repeated comparative tests show it to be as sure a header and as early as the famous old Early Jersey Wakefield. Market gardeners here are delighted with it. The plants are short stemmed, producing heads almost on the ground; uniformly large, round, solid and of excellent quality. The light green leaves are medium in size, saucer shaped and are always tightly folded; the plants may, therefore, be set closer than most other early varieties. It is a vigorous grower and yielder, and an excellent keeper. Our stock of Copenhagen Market comes to us direct from the originator. (See cut) Pkt., 10c; oz., 30c; 1/4 lb., 90c; lb., \$2.90 prepaid. Not prepaid, lb., \$2.75; 10 lbs., \$25.00.

Danish Ball Head

(or Hollander (P.-W.'s Short Stemmed Strain)—This selected stock is the most popular of all late varieties for winter use. Genuine seed grown on Amager Island, Denmark. Many trials have demonstrated the superiority of the Danish seed of this variety over that grown in other countries and localities. It is sure to head, being round, hard and extremely heavy, though not extra large. It can be grown in close quarters on account of its compact habit, and as to its keeping qualities, it comes out of the pit in March or April as fresh as when put in, with absolutely no waste. No cabbage has attained to so great a popularity as the true strain of P.-W.'s Short Stemmed Danish Ball Head, without doubt the leading fall and winter cabbage. Pkt., 10c; oz., 30c; 1/4 lb., 85c; lb., \$2.75, postpaid. Not prepaid, lb., \$2.65; 10 lbs., \$24.00.

P.-W.'s Early Jersey Wakefield

We assure our market gardeners that our strain of Jersey Wakefield meets every requirement in points of earliness and even head, so that the entire crop can be marketed very early. It grows very compact with nearly oval, deep green leaves. Short stem, medium size, very solid, pointed beads of excellent quality. Undoubtedly the best extra early pointed headed cabbage, either for home or market. Pkt., 10c; oz., 25c; 1/4 lb., 75c; lb., \$2.50, postpaid. Not prepaid, lb., \$2.40; 10 lbs., \$20.00.

P.-W.'s Golden Acre Cabbage

is a new, early, round-headed cabbage which closely resembles Copenhagen Market in type. As its name implies, it is a money-maker. It is 8 to 10 days earlier than Copenhagen Market but is smaller and can be planted closer. Because of its earliness and fine quality it commands a higher price than any round-headed cabbage. Pkt., 10c; 1/2 oz., 25c; oz., 45c; 1/4 lb., \$1.25; lb., \$4.50, postpaid.

Glory of Enkhuizen

An early, globe-shape, medium size, sure heading and a splendid keeper. Matures right after Copenhagen Market. More uniform and more even maturing than Copenhagen. Originator's stock. Pkt., 10c; 1/2 oz., 35c; oz., 60c; 1/4 lb., \$1.75; lb., \$6.00.

OTHER GOOD VARIETIES

Fall and Winter Varieties—

Danish Round Head—Pkt., 10c; oz., 25c; 1/4 lb., \$8.50; lb., \$2.50, postpaid.

Premium Late Flat Dutch—Pkt., 10c; oz., 25c; 1/4 lb., 75c; lb., \$2.50.

Mammoth Red Rock—Pkt., 10c; oz., 35c; 1/4 lb., \$1.00; lb., \$3.50; 10 lbs., \$32.50.

Marvin's Savoy, crumpled leaf—Pkt., 10c; oz., 30c; 1/4 lb., \$1.00; lb., \$3.00.

Extra Early Pointed Heads—

Charleston Wakefield—This sort matures a few days later than "Early Wakefield," with heads much larger and uniform. Very popular with growers; it does well on heavy soil. Pkt., 10c; oz., 25c; 1/4 lb., 80c; lb., \$2.50, postpaid.

Early Winnigstadt—Sure to head regular, conical shape, very hard and hardy, a good keeper. Pkt., 10c; oz., 25c; 1/4 lb., 75c; \$2.75, postpaid.

CABBAGE PLANTS

Strong, vigorous, well hardened transplanted plants of P.-W.'s Early Jersey Wakefield, P.-W.'s Baby Head, Danish Ball Head, (Short-stemmed) and Copenhagen Market. They are ready in April and May. Price, 25c per doz.; \$1.50 per 100, postpaid. Not postpaid, \$1.00 per 100; \$7.50 per 1000. Ask for quantity prices on field grown not transplanted plants for May and June delivery.

Five Pounds and Over Furnished at 10-lb. Rate.

P.-W.'s Short-Stemmed Ball Head

CELERY

For early summer celery sow seeds of the self-blanching sort in flats under glass during latter part of February or early March. In May to June 15th, set the plants in very rich and well prepared land, six inches apart in the rows, three to four feet apart. Cultivate thoroughly and blanch out by boards set up against rows. For later and winter celery start seed in flats as for early, or directly into open ground. Make the rows for plants one foot apart, sow seed shallow and firm well. The rows should be four to five feet apart. To blanch, earth up gradually to within a few inches of tips of leaves. For winter take up plants with roots, place upright on wet soil in a dark cellar or root house, and pack closely. One ounce will produce from 5,000 to 10,000 plants.

P.-W.'s Improved Golden Crisp

The far-famed Utah Celery so much in demand. This strain was originally developed by the Chinese gardeners. Its superior qualities gave them exclusive control of the celery market while their supply lasted. We have finally succeeded in getting a reliable source of supply for the seed of this much-sought after variety. It is 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 creamy white. Ribs perfectly solid, crisp and of a delicious nutty flavor. Once sown, always grown. Pkt., 15c; oz., \$1.25; ¼ lb., \$2.25; lb., 7.00, postpaid.

Reselected stock seed of P.-W.'s Improved Golden Crisp limited quantities only ¼ oz., \$1.00; oz., \$3.50.

Golden Plume or Wonderful—Novelty see page 48. Pkt., 15c; oz., \$1.25; ¼ lb., \$3.50; lb., \$10.00, postpaid.

Golden Self Blanching—Of quick growth, easy self-blanching character, combined with handsome appearance and crisp, sweet flavor. It is a good early Celery for home gardens and local markets. Pkt., 15c; oz., \$1.00; ¼ lb., \$3.00; lb., \$8.00, postpaid.

Giant Pascal—Large, thick, solid, round stalks. Pkt., 5c; oz., 25c; ¼ lb., 80c; lb., \$2.50, postpaid.

Celeriac—(Turnip Rooted Celery) Large, Smooth Prague—An improved turnip-rooted celery. Roots large, round and smooth, free from side roots. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.50, postpaid.

CELERY PLANTS

Ready May to July—Golden Crisp and Golden Self Blanching—Strong transplanted plants, 35c per doz.; \$1.50 per 100, postpaid. Not prepaid, doz., 25c; \$1.25 per 100; \$18.50 per 1000.

CRESS

Splendid for salad, garnishing. Sow seed one foot apart in open ground. Sow often for succession, as it soon runs to seed.

Extra Curled or Pepper Grass—The leaves of this small salad are much frilled or curled, and are used for garnishing. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.10; 10 lbs., \$10.00.

True Water—The seed is usually sown and lightly covered in gravelly, mucky lands along the borders of small, rapid streams. The plants will need no subsequent culture, as under favorable conditions they increase very rapidly by self-sown seed and extension of the roots. Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00, postpaid.

ENDIVE

A salad vegetable which is becoming very valuable for winter use. Should be sown in June or July, in rows, and thinned to about six inches apart. One ounce 300 feet, 4 to 5 pounds per acre.

Broad Leaved Batavian—Broad, more or less twisted and waved green leaves with thick white mid-ribs. Unsurpassed for salads. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.35, postpaid. Not prepaid, lb., \$1.25; 10 lbs., \$11.50.

Green Curled—Very curly. The mid-ribs being wide and whitish, with the outer edges very much indented and curled, forming a very attractive plant. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.35, postpaid. Not prepaid, lb., \$1.25; 10 lbs., \$11.50.

EGG PLANT

The seed germinates rather slowly, and it is well to start under glass, with moderately high temperature, in March. When all danger of frost is over, and the plants are strong, they should be transplanted carefully to the garden or field. Egg plant does not do as well where cool nights prevail, as in places where nights are warm. It needs a warm climate to insure quick and uninterrupted growth. One ounce, 1000 to 2000 plants.

Black Beauty—Earliest and best of all large fruited Egg Plants. The grand large fruits are thick and most attractive, rich, lustrous, purplish-black, intensely brilliant coloring is uniform over the whole fruit. Pkt., 5c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00, postpaid.

New York Improved Large Purple—Very large and of fine quality. Pkt., 5c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00, postpaid.

Plants—Transplanted well grown plants of Black Beauty ready in May and June; 60c per doz.; \$4.00 per 100, postpaid. Not prepaid, 50c per doz.; \$3.50 per 100; \$30.00 per 1000.

P.-W.'s Golden Crisp

KALE

A species of cabbage. The leaves are cooked as greens; not injured by frosts. Sow in September in the same manner as spinach. One pkt. for 100 feet, 2 pounds per acre.

Dwarf Curled Scotch—Grows very low and compact, with large, bright deep green leaves curled, cut and crimped, resembling somewhat a bunch of moss. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.

Tall Green Early Scotch—Very hardy, not injured by March frost. About 30 inches tall with many dark green leaves, intensely curled and cut, forming a very beautiful plant. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

KOHL RABI

The bulb is edible and when cooked tastes very much like the turnip. If the seed is sown early the young bulbs will be ready for use in the spring, and a planting in July will secure vegetables for fall use. The seed should be planted in the open garden and the young plants thinned to four to six inches.

Early White Vienna—Very early, small tops, light green; bulbs medium size, best quality.

Early Purple Vienna—Bright purple bulb, leaves and stems green tinged with purple.

Any of above—Pkt., 5c; oz., 25c; ¼ lb., 80c; lb., \$2.40. Not prepaid, lb., \$2.25; 10 lbs., \$20.00.

Golden Bantam.

SWEET CORN

Plant about the middle of May, or as soon as the ground is dry (if planted too early corn is apt to rot) in hills three feet apart each way, seven or eight kernels to a hill; hoe often and draw dirt to the stems; thin to four stalks and break off side shoots. Use plenty of old, fine manure. For succession plant every two or three weeks until the last of July.

P.-W.'s NEW GOLDEN SUNSHINE—See Novelties)

Golden Bantam Very early, deliciously sweet, finest quality; ears small, golden yellow; very productive. Pkt., 10c; lb., 30c; 3 lbs., 80c, postpaid. Not prepaid, 10 lbs., \$1.75; 100 lbs., \$16.00.

P.-W.'s Golden Rod (Bantam Evergreen)—This best of all giant yellow varieties is a cross between Stowell's Evergreen and Golden Bantam. The plants grow six to seven feet high, ears eight to ten inches in length, filled to the very tips with twelve rows of deep, succulent kernels of a rich transparent, cream-yellow, tender, deliciously melting and "sweet as honey." This luscious "milk" stage quality is maintained for an unusually long time. It matures about 7 to 10 days later than Golden Bantam. Pkt., 10c; lb., 30c; 3 lbs., 80c, postpaid. Not prepaid, 10 lbs., \$1.75; 100 lbs., \$16.00.

Country Gentleman Grand old "stand-by" for main crop for canning. It produces three to four ears to each stalk. The ears are seven to eight inches long, cob small and densely covered with long, slender white grains without row formation. Deliciously sweet and tender. Pkt., 10c; lb., 30c; 3 lbs., 80c, not prepaid, 10 lbs., \$1.75; 100 lbs., \$16.00.

Early Mayflower A splendid extra early white sweet-corn; is earlier than Mam. White Cory and apparently less apt to worm. Ears are pure white, sugary and larger than most other extra early varieties. Should become one of the leading market gardener sort. Pkt., 10c; lb., 30c; 3 lbs., 75c, postpaid. Not prepaid, 10 lbs., \$1.70; 100 lbs., \$15.00.

P.-W.'s Portland Market This is a new leading early corn and is the largest of all early varieties. Its immense size, together with its large, sweet, plump grains of purest white, on well filled ears, make it a ready seller on any market. The large ears, often a foot in length, mature very even, and owing to the thin husks the marketable ears are easy to detect. The stalks grow strong and vigorous, but rather dwarf. Matures about 10 to 14 days after Early Mayflower. Pkt., 10c; lb., 35c; 3 lbs., 90c, postpaid. Not prepaid, 10 lbs., \$2.00; 100 lbs., \$18.00.

P.-W.'s Golden Rod

Early Mayflower

Stowell's Evergreen The standard main crop variety, much used for the home garden, market and canning. It is hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best known of all late sorts. The ears about seven to eight inches long, fourteen to twenty rowed, with very white grain. The stalks are about seven and one-half feet high. Pkt., 10c; lb., 30c; 3 lbs., 80c, postpaid. Not prepaid, 10 lbs., \$1.70; 100 lbs., \$15.00.

MUSTARD

One ounce to fifty-foot row.

Excellent greens, of sharp, pungent flavor; cooked the same as spinach. Sow in drills early in the spring, and at frequent intervals throughout the summer.

Giant Southern Curled—Curled leaf, large.
Ford Hook Fancy—Beautiful dark green leaves.
White English—Leaves small and smooth.
Any of above, Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00.

Particular Planters Demand P.-W.'s Tested Mountain Grown Seeds and Reliable Trees. They're More Vigorous.

OTHER GOOD SORTS

Davis County Excelsior—Ears large, cobs small, and grains almost white. A heavy yielder; very sweet.

Early Mammoth White Cory—Stalks short; ears set quite low, of fair size. Very early.

Early Minnesota—Ears about 2 inches long; early; kernels broad, sweet and tender.

Howling Mob—One of the finest early, large eared sorts; very productive, white. A market gardeners' favorite. Ears 9 to 10 inches long, 16-rowed.

Price any of above, Pkt., 10c; lb., 30c; 3 lbs., 75c, postpaid. Not prepaid, 10 lbs., \$1.70; 100 lbs., \$15.00.

POP CORN

Same cultural direction as Sweet Corn.

Japanese Hulless Dwarf Rice Very tender and almost hullless. Ears short and chunky. Heavy yielder. We regard this as the coming commercial variety, no husk when popped. Pkt., 10c; lb., 30c, postpaid.

HORSE RADISH

Grow it in your own garden and grate fresh. Plant the sets small end down in rows 2 feet apart, about 18 inches apart in the row. Set slanting and covered about two or three inches. Price: 60c per doz.; \$3.50 per 100, postpaid.

Field Corn—See page 45.

Garlic—See page 66.

P.-W.'s Klondike White Spine

CUCUMBERS FOR PICKLES AND SALADS

The soil best adapted for the culture of cucumbers is a rich warm moist loam. Seed should be sown in the open ground as soon as danger of frost is over. Plant in hills four or five feet each way. As the young plant has many enemies, seed should be sown quite thickly, one-half inch in depth and when well out of the ground thinned to three or four plants to the hill. Cucumbers should be gathered by cutting, not tearing, every day or at least every other day. Leave none to ripen if you want a full crop. One ounce to 75 hills; 2 to 3 pounds per acre.

Early Fortune Comparative tests with all other strains of White Spine prove that this new type has all the "earmarks" of becoming the most popular market variety yet developed. A quick grower, very productive and disease-resistant; fruits nine inches long, slightly tapering; flesh white, very firm and crisp, with very few seeds; color rich, dark green, which does not fade when shipped a long distance. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.15; 10 lbs., \$10.00.

Davis Perfect A splendid forcer and shipper—It is a medium early, extra long dark green type; retains its color and good qualities long after being picked; fruit is exceptionally long, smooth and tapering at both ends; flesh crisp, solid, with few seeds. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.15; 10 lbs., \$10.00.

Boston Pickling This is a very productive variety that is extensively grown for pickles. The vines are vigorous. The fruits are bright green, of medium size, very smooth and symmetrical. The flesh is crisp and tender. Our seed is decidedly superior to much that is offered. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.15; 10 lbs., \$10.00.

P.-W.'s Klondike White Spine

After years of experimenting we have found this to be a reliable, all-purpose variety for market garden as well as the home garden. It cannot fail to be profitable, whether grown for early slicing or late pickling. The fruit, when suitable to ship, is six or seven inches in length, green to the tip and ends, solid, crisp and of excellent flavor. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.15; 10 lbs., \$10.00.

Improved Long Green

The vines are very vigorous and productive. The fruits are very long, often twelve to fifteen inches when mature. They are uniformly slender and of beautiful dark green color. The large warts and spines are well distributed over the surface instead of being clustered at one end as in inferior stocks. The variety furnishes some fruits early but matures the bulk of its crop rather late. It is a standard sort of slicing and is very largely used for pickles. The fruits are often used for making sweet pickles. This is probably the most extensively used cucumber for the home garden and market. We have given this variety especial attention for many years and we have

have the stock we offer has no equal. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.15; 10 lbs., \$10.00.

Boston Pickling

Other Good Varieties

Early Cluster — Makes a rapid growth. Fruits are short and produced in clusters.

Early Frame, or Short Green — Fruits straight but smaller at ends, bright green.

Any of above price. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10, postpaid. Not prepaid, lb., \$1.00; 10 lbs., \$9.50.

P.-W.'s Longfellow. See Novelties.

Use Hot Caps For Earlier Cucumbers. See page 25.

Improved Long Green

Five Pounds and More at 10-lb. Rate; 25 lbs., or More at 100-lb. Rate.

LETTUCE—The "Salad Stand-by"

Head lettuces are becoming more popular than the loose leaf types; but it is certainly worth while to grow both, making several plantings to insure continuous succession. The "New York" or "Los Angeles Market" is the favorite for market growing in the Mountain States and of course is equally valuable for the home garden. The "leaf" varieties are more easily grown and many consider the "Romaine" or "Cos" type to be the best of all in flavor.

There is so great difference in localities in regard to culture of lettuce that it is hard to get a uniform rule. For the ordinary house garden, it is desirable to use one variety of each type, and several plantings should be made to secure succession. The seed should be planted in rows eighteen inches apart, as early as possible, and the young plants of cabbage head variety should be thinned until four inches apart. Varieties that do not head may be left quite thick, and when fairly well grown, those thinned out may be used. Nitrate of soda, or some nitrogenous Fertilizer will pay if used after plants are set. A light, warm, rich, well watered soil is ideal as quick, rapid growth is essential to crispness and flavor. One ounce produces three thousand plants; for Head lettuce sow $1\frac{1}{2}$ to 2 pounds per acre; Loose Leaf varieties 3 to 4 pounds per acre.

LETTUCE KNIFE

This is the handiest tool for the Lettuce grower. It has a tempered steel blade specially shaped and a convenient wooden handle. Price, each, 35c; 3 for \$1.00, postpaid.

Hanson

Heading or Cabbage Types

New York (Los Angeles Market)—The leading summer curly head lettuce—Immense heads, often 13 to 16 inches across, weighing enormously. Blanches creamy-white; crisp, tender and absolutely free from bitterness. Robust growing, rooting deeply, resisting hot, dry weather; very slow to run to seed and a sure header under trying conditions. The outer is a distinct apple-green. Has no equal as a hot weather summer lettuce; not recommended for forcing. **Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 65c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.90; 10 lbs., \$18.50.**

New York No. 12—See Novelties, page 48.

Deacon—Has very few waste outside leaves, grows very solid and of delicious buttery flavor.

P.-W.'s Extra Early —Quickest growing head lettuce, best for forcing.

ing. This variety forms fine, hard, medium sized heads a few weeks after planting. It is light green with a slight browning tint on the head; leaves are smooth, crisp, rich and delicious. The best smooth leaved butter head lettuce. **Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50, postpaid. Not prepaid, 10 lbs., \$11.50.**

Hanson—It is wholly free from bitter taste, having a sweet and rich flavor. A perfect open air lettuce in all respects, hardy and may be set out in the early spring or grown late in the fall. One of the most popular now grown.

May King—Fine for forcing and outside, medium size yellowish-green heads, very early.

Prices on any of above, Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25, postpaid. Not prepaid, 1 lb., \$1.10; 10 lbs., \$10.00.

Cos or Romaine

Cos or Romaine

Sow seed early in spring in rich, well-prepared soil in rows eighteen inches apart, covering one-half inch deep. When plants have two or three leaves thin to three or four inches apart. As the plants begin to crowd, thin and use as required.

Trianon—The best of this type. Forms large, light green plant with head well folded, quite solid. The flavor is different from ordinary and esteemed by many. Tie plants to blanch them or plant closely, 5 inches apart. **Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00, postpaid. Not prepaid, 10 lbs., \$15.00**

Curled or Loose Leaved

Black Seeded Simpson—This is one of the best; leaves large, thin and exceedingly tender.

Early Curled Simpson—A popular early sort, forming a large, loose head.

Prices on any of above, Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50, postpaid. Not prepaid, 10 lbs., \$11.50.

5 lbs. and over at 10-lb. rate; 25 lbs. and over at 100-lb. rate

Grand Rapids—The most popular variety of greenhouse planting.

Prizehead —Large, loose headed sort; leaves tinged with brown, very heavy.

New York or Los Angeles Market Lettuce.

Mushrooms

Mushrooms may be grown by anyone having a supply of fresh manure and a shed or cellar, or under a greenhouse bench where a temperature of 50 to 60 degrees is evenly maintained. They make a most profitable crop when successfully grown, and the American market is the best in the world for this most delicious of foods. Full cultural directions with every order.

Pure Culture Spawn—Requires one brick, 40c; two bricks, 75c; five bricks, \$1.75, postpaid.

Leek

Seed should be planted in June for good plants in the fall or winter.

Giant Musselburgh—This is the best variety, having good thick stems which are also long, very vigorous and of a sweet mild flavor. **Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.75, postpaid. Not prepaid, lb., \$1.65; 10 lbs., \$16.00**

MUSK MELONS

Melons thrive best in a light, rich soil. Plant early in May, when the ground has become warm, in hills five to six feet apart each way for muskmelons, eight feet for Casabas, and plant in each twelve to fifteen seeds; after all danger of bugs is over, thin out to three or four plants per hill. A few hills for early use may be had by sowing on pieces of sod in a hotbed, and when warm enough transplant to open ground. Melon vines are subject to the same destructive insect and fungus foes as are cucumbers and squash vines. Early and repeated spraying with arsenate of lead mixture is always advisable for these crops. See pages 28 and 29. Seed required, one ounce 50 hills, two to three pounds per acre.

Rocky Ford Pollock 10-25 A decided improvement on popular old Rocky Ford. Market growers are demanding this strain to the exclusion of all others. The melons are extremely uniform in size, shape, netting, flavor and have good shipping qualities. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.10; 10 lbs., \$10.00.

P.-W.'s Honey Ball Muskmelon

Recently introduced, this cantaloupe comes to us from Texas, but thrives generally where other melons will ripen. Perfectly round, covered with netting, this variety is claimed to be a cross between honeydew and Cannonball. It certainly has the good qualities of both and with it is keeping and shipping qualities it will play a large part in the cantaloupe industry, in our opinion. The flesh is greenish, seed cavity extremely small, and edible to the very rind. While very sweet, yet there is some of the spicyness of the green fleshed cantaloupes which is lacking in one of its parents. Weight, about $3\frac{1}{2}$ pounds. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; lb., \$1.95, postpaid. Not prepaid, 10 lbs., \$16.50.

Hearts of Gold

Heart of Gold (Improved Hoodoo)—Carefully selected to an oblong type, a little larger than the standard Rocky Ford, very uniform in size. It is a splendid shipping variety and in increasing use. While it is a ribbed melon the ribs are not prominent and the melon is very heavily netted. The flesh is a rich orange color, fine grained and of excellent flavor. The seed cavity is small. It does not turn yellow when ripe but retains its natural green color and remains solid and firm for days after it is packed from the vine. The vines are very strong growers and are rarely effected by rust. Excellent records were made with this variety for market. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50. Not prepaid, lb., \$1.25; 10 lbs., \$11.50.

Burrel's Gem (Salmon fleshed cantaloupe, extensively grown for market)—Equally good for the home garden. Similar in appearance to its parent, "Defender." It is easily crated, medium size, oval in shape, slightly ribbed, covered close with net. The flesh is firm, fine grained, rich, deep yellow; vigorous and productive.

Regular Stock—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 40c; lb., \$1.00, postpaid. Not prepaid, 10 lbs., \$8.50.

Growers Stock—Seed in sealed 1 lb. bags, \$1.35, postpaid.

Persian—See novelties.

Hales Early—See Novelties.

(Use Hotcaps for Earlier Melons. See page 25).

New Orange Flesh

P.-W.'s Orange Flesh Undoubtedly the "last word" in the Rocky Ford type of shipping melons and has brought the highest price in every market shipped to. Its appealing deep orange flesh is its distinctive characteristic. It is the most solid, more to the crate. Fruit very uniform in size, nearly with the smallest seed cell of any type and will weigh round and densely covered with a hard gray netting. Recommended for its hardness, prolificness, deep flesh and excellent eating and shipping qualities. **Extra Selected Stock Seed.** Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50, postpaid. Not prepaid, lb., \$1.40; 10 lbs., \$12.50.

P.-W.'s Delicious Gold Lined Rocky Ford—(Improved Netted Gem)—This ideal type is of medium oval shape about five inches long, thickly netted skin without ribs. Contains a small seed cavity, rind thin, leaving a thick lining of flesh which is a most delicious juicy flavor and fairly melts in the mouth. Flesh green, tinge of yellow center. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.35, postpaid. Not prepaid, lb., \$1.10; 10 lbs., \$10.00.

CASSABA MELON

The Cassabas are primarily for winter use. They require a long season for maturing but the fruits are exceptionally good keepers. Cultivate same as other musk melons but do not water too freely after first setting of fruit is fully grown. Pick when the light streaks have become quite yellow and store so they do not touch each other, in a cool dark place. When the rind becomes slightly softened and moist, they are ready to cut.

Honey Dew (Improved Casaba)—The outer skin is smooth and hard, nearly white, turning to a lemon tint when fully ripe. Melons weigh from six to ten pounds each, oval in shape, thick meated, very small seed cavity, flesh is light green, solid, honey-like flavor, luscious and juicy. Fruits may be laid away for use late in the fall. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50, postpaid. Not prepaid, lb., \$1.35; 10 lbs., \$12.50.

Golden Beauty—One of the best casabas. Fruits globular, bright yellow with golden tint, with wrinkled skin, six to eight inches in diameter. Flesh is white, very thick, juicy and sweet. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50, postpaid. Not prepaid, lb., \$1.35; 10 lbs., \$12.50.

When better cantaloupes are grown than the varieties we offer you may depend on it we'll have them

By means of our Center-ville Trial Grounds we select the "Best."

Golden Beauty Casaba

P.-W.'s Kleckley Sweet Watermelon

WATERMELONS

Plant the seed the middle of May in hills about 9 feet apart. Use five or six seeds to a hill and thin out to three plants as the second or third leaf shows. A farm crop two to four pounds per acre. A good Watermelon is one of the finest fruits on earth. On a hot day there is nothing like a fresh, juicy, sweet Watermelon. Some Watermelons are much sweeter than others.

4 ounces to 100 hills. 2-4 lbs. per acre

P.-W.'s Improved Kleckley Sweet The best melon for home or near-by markets. There is no melon superior in quality to this strain of Kleckley Sweet. The bright scarlet flesh is the ideal of watermelon quality; firm, crisp, entirely free from stringiness or cotton and "sweet as sugar." The melon is oblong in shape, about twenty inches in length by ten or twelve inches in diameter. The skin is a rich, dark green. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid. Not prepaid, lb., 80c; 10 lbs., \$7.50.

Chilian or Cannon Ball This is a great favorite in California, both with home and market gardeners. It is nearly round, medium size, skin very dark, rich green, rind thin; flesh bright red and exceedingly crisp and sugary. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid. Not prepaid, lb., 80c; 10 lbs., \$7.50.

Winter Watermelon (King and Queen) As the name indicates, this is a winter variety. The firmness of the flesh causes it to be the longest keeper of the watermelon family. Put into a cool place it will keep long into the winter without losing its delicious sweetness or exquisite flavor. Flesh is red and extremely firm, almost as hard as citron—very brittle and deliciously sweet. This melon is round shaped and the skin is very light green, almost white. It is a good drought resister and does well in almost any section of the west where melons of any sort can be grown. No garden should be without this exceptional variety. (Pink Seed). Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.40, postpaid. Not prepaid, 10 lbs., \$12.50.

Black Seeded Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.20, postpaid. Not prepaid, lb., \$1.10. 10 lbs., \$10.00.

The Klondike Watermelon A very popular new melon from the southwest. The seeds are quite small, color brown mottled black, while the flesh is a distinctive shade of deep red. The rind is dark green; the shape is long with an average weight of 25 pounds. While more a home garden than a market variety, it is adapted for shipping moderate distances. Though cylindrical in shape, the Klondike tapers slightly toward the blossom end. Edible in 82 days. Size averages 16x10 inches. It is a better shipper than most of the thin rind melons and is proving a favorite with the Market Gardeners in the Salt Lake valley. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c, postpaid. Not prepaid, lb., 80c; 10 lbs., \$7.50. **Crown Set Stock Seed**, lb., \$1.50, postpaid. Not prepaid, lb., \$1.40; 10 lbs., \$13.50.

P.-W.'s New Stone Mountain—(See Novelties pages)

Angelino (Black Strain)

—Attractive melon, nearly round, medium size with dark green skin, irregularly striped a deeper shade. The flesh is a sparkling scarlet, and its edible qualities are unexcelled. The average weight of the melons is 20 pounds. Edible in 90 days. Size 12x10 in. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid. Not prepaid, lb., 80c; 10 lbs., \$7.50.

Irish Grey—A new beat resistant grey melon; deep red flesh, hard and sweet, without hard center. Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 90c, postpaid. Not prepaid, lb., 80c; 10 lbs., \$7.50.

Excel—A new, very large black-seeded shipping melon; it is a little smaller than Tom Watson, but can be shipped anywhere. Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 90c; postpaid. Not prepaid, lb., 80c; 10 lbs., \$7.50.

Halbert Honey—Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid. Not prepaid, lb., 80c; 10 lbs., \$7.50.

Tom Watson—Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid. Not prepaid, lb., 80c; 10 lbs., \$7.50.

Klondike Watermelon

ORDER EARLY

In January and February, if possible, before the Spring rush begins. March and April are our busy months and our full force works day and night under top pressure. We allow you 5% discount for the privilege of filling your order BEFORE MARCH 1.

5%

OKRA OR GUMBO

One ounce fifty feet of drill

Sow late in the spring after the ground has become warm, in drills three feet apart, and when plants are three inches high, thin out to from ten to twelve inches. They should be well manured. They can also be started in a hothed and transplanted afterward. The young, green seeded pods of this plant are used in soups, stews and served like asparagus.

Dwarf Green—Prolific and productive.

White Velvet—Pods are large, perfectly round and smooth and attractive; of superior flavor and tenderness.

Plants comparatively dwarf, of compact branching growth. Best for all purposes.

Either of above. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00

ONIONS

**"An
Onion
a Day
Keeps
the
Doctor
Away"**

P.-W.'s Sweet Spanish Onions
Grown at Centerville

The Onion is one of the most extensively used of all vegetables. It not only contains considerable nutriment and has valuable medicinal properties, but is most useful in counteracting the bad effects of sedentary life. The disagreeable odor it imparts to the breath may be avoided in a great measure by thorough cooking, or by eating a few leaves of parsley.

Sow in drills twelve to sixteen inches apart, sowing the seed thinly and cover thinly. If desired for transplanting, seeds may be sown broadcast, covering a quarter of an inch deep and transplanted when size of straws. Onions prefer a deep, friable loam, very heavily enriched, but no fresh manure; therefore, fertilize the year previous to sowing. Thin three to six inches apart in rows. While moisture-loving, much water is fatal and should never touch the plants after too old to pull for eating green. For keeping quality, always irrigate between the rows. One ounce 100 feet, 4-6 pounds per acre.

It will not do to store onions in large piles or masses, particularly in warm weather, or if they are the least moist, but if perfectly dry when gathered and stored in crates, they can be kept in fine condition till spring. The best way is to keep them dry, giving bottom ventilation if possible, and at a uniform temperature of about 32° to 34° Fr.

P.-W.'s Sweet Spanish Genuine "Valencia" Type—**Riverside Strain.** This giant, mild flavored onion was originally imported from Spain and this particular strain was developed by selection at Riverside, California. It is a big, globe-shaped, brownish yellow onion weighing from one to three pounds depending on how it is grown. It has an unusual sweet, mild flavor and in the Salt Lake Valley and sections of similar climatic conditions, if planted early, it can be thoroughly cured, insuring its good keeping and shipping qualities. It has become very popular here and is now the leading onion grown by Market Gardeners in the Inter-Mountain region. Hundreds of carloads are shipped out annually. On good soil this variety produces onions measuring from four and one-half to five and one-half inches in diameter. A yield of two thousand bushels per acre is not uncommon. In the ordinary method of planting here it requires three pounds of seed per acre when planted directly in the field. This is a most popular method in this section. The seed we offer has been grown from selected onion bulbs and we unhesitatingly recommend it as having no superior anywhere. Pkt., 10c; oz., 40c; ¼ lb., \$1.25; lb., \$4.00, postpaid. Not prepaid, lb., \$3.90; 10 lbs., \$35.00.

Utah State Certified Seed of Valencia Sweet Spanish—Furnished at the same price as P.-W.'s Sweet Spanish

P.-W.'s Mountain Danvers This is an exceptional strain of the Yellow Globe Type, originally developed in the high valleys of the Rocky Mountains. It is most probably a cross between the Early Flat Danver and Giant Gibraltar, producing a large, semi-globe shaped onion so well adapted to high altitudes and short season. In sections where the season is too short to produce Sweet Spanish Onions, this is surely a most profitable variety to grow. Yields of 600 bags per acre are very common. Bulb is large, slightly flattened, of a beautiful bronze color, splendid keeper. Price—Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.85; 10 lbs., \$17.50.

P.-W.'s Yellow Globe Onion Medium size, solid and heavy. The skin is a beautiful yellow, tops ripen down close, necks small. One of the surest keepers grown. Flesh white, of mild and pleasant flavor. Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.90; 10 lbs., \$18.00.

Ailsa Craig—Color light straw yellow, fine grained, very mild flavor, mammoth size, often weighs two pounds, ripens early. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.25, postpaid. Not prepaid, lb., \$2.00; 10 lbs., \$18.50.

American Grown Prizetaker—Very large, nearly round, skin light yellow. Flesh pure white in color, crisp and mild flavor. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.90; 10 lbs., \$18.00.

Australian Brown Medium size, amber brown skin, white flesh, heavy yielder, good keeper. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.70. Not prepaid, lb., \$1.60; 10 lbs., \$15.00.

Gigantic Gibraltar—An immense, light yellow onion, fine grained, crisp, mild flavored and early. They not infrequently measure 18 inches around, and weigh two pounds. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.90; 10 lbs., \$18.00.

Southport Yellow Globe—The flesh is snow-white, firm, mild and juicy, skin light golden yellow. Popular for family use or market. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.90; 10 lbs., \$18.00.

Yellow Flat Danvers—Largely planted. Flesh fine grained; mild. Pkt., 5c; oz., 20c; ¼ lb., 55c; lb., \$1.75, postpaid. Not prepaid, 10 lbs., \$15.00.

Red Wethersfield—Though well flattened, the solid onions are thick through, skin is a deep glossy, purplish red. Flesh white. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.90; 10 lbs., \$18.50.

Southport Large Red Globe—Distinctly globe-shaped, small neck, excellent keeper; deep purplish red. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.90; 10 lbs., \$18.00.

ONIONS—Continued

WHITE VARIETIES

Crystal White Wax

Popular Market Onion for the South and Southwest—

Selected stock direct from the most critical grower on the island of Teneriffe. Very large, white onion of the Bermuda type, a remarkably good shipper and an excellent keeper. The sweet, mild flavor and large size makes it a ready seller on any market. Pkt., 10c; oz., 30c; ¼ lb., 85c; lb., \$2.95, postpaid. Not prepaid, lb., \$2.85; 10 lbs., \$27.50.

P.-W.'s Southport White Globe

True globe form, pure white, hard and small neck, ripening very early and evenly. A splendid keeper. It grows to a large size, very solid and heavy, flesh purest white and fine grained, mild, delicate flavor, heavy yielder. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50, postpaid. Not prepaid, lb., \$2.35; 10 lbs., \$22.50.

Extra Early Barletta

Old-time favorite. From one inch to one and one-half inches in diameter. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.90; 10 lbs., \$17.50; 100 lbs., \$150.00.

P.-W.'s Peerless White

Best all purpose onion in the list. In our estimation this splendid new variety is the best bunching onion that has come under our observaion. We especially recommend it to our Market Gardener customers who desire a bunching onion that will be marketable over an extended period. It holds its top longer than any other type and comes into market as early as the Pearl or White Queen. It is a true globe form, pure, white, solid, ripening evenly. It makes a splendid winter onion and it is a very good keeper. The mature onions grow to a good size, some average from 7 ½ to 9 inches in circumference. The flesh is white and fine grain and has a good flavor. We are sure that wherever tried this will become a Market Gardener's favorite, and equally desirable for the home garden as a green onion for use during the Summer season. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.25, postpaid. Not prepaid, lb., \$2.10; 10 lbs., \$20.00.

P.-W.'s White Sweet Spanish—See Novelties.

Mammoth Silver King—Large, attractive form, flattened out quite thick through. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.25, postpaid. Not prepaid, lb., \$2.10; 10 lbs., \$20.00.

Early White Queen

Highly recommended for pickling purposes. This variety is an exceedingly early one. The bulbs are small, very much flattened, silvery white, from 1 ¼ to 1 ½ inches in diameter and about one inch thick. Pkt., 10c; oz., 20c; ¼ lb., 65c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.90; 10 lbs., \$17.50.

White Lisbon

For bunching. This is a very popular variety in the West. It is also planted very extensively in Europe. While it will make a good sized white bulb, it is grown instead of sballots and onion sets for what is known as table or green onions, for when young the white or candle part of the onion is pure white, long and slender. It has a good flavor, being mild and sweet. Home gardeners usually plant White Lisbon so as to have table onions all during the Summer after those produced from sets are gone. Price: Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$2.00. Not prepaid, lb., \$1.90; 10 lbs., \$17.50.

Other Good White Onions

Extra Early Pearl—One of the earliest; mild flavor. Round Silver Skin (White Portugal)—Very early, round; crisp, tender; excellent bunching or pickles. White Welch—Does not form bulb but produces very early bunch onions. Any of the above: Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00, postpaid. Not prepaid, lb., \$1.90; 10 lbs., \$17.50; 100 lbs., \$150.00.

P.-W.'s Peerless White Onion

Garlic Sets—Most pungent of Onion family. Lb., 45c; 3 lbs., \$1.30, postpaid.

ONION PLANTS

This is rather a new method of growing large onions, but our experience the last two or three years proves it to be very successful. Our growers in Texas can plant the seed earlier than we can in this section and they are able to develop good, sturdy plants which stand shipment remarkably well and transplant with little loss.

For those desiring a large number we quote f.o.b. our shipping point in Texas in crate lots or more. These plants are put in bunches of 100 and 6,000 to the crate.

Prices F.O.B. Salt Lake City:

	100	1,000	6,000
Sweet Spanish	\$.40	\$2.00	8.50
Crystal White Wax.....	.35	1.95	7.00
Yellow Bermuda.....	.35	1.95	7.00

Bermuda Onion Plants

Prices F.O.B. Shipping Point, Texas:
Sweet Spanish\$6.00 per crate
Crystal White Wax at \$5.00 per crate
Yellow Bermuda at\$4.75 per crate

ONION SETS

A great specialty with us. We produce several carloads at our own farm in Centerville. The remarkable firmness, soundness and regularity in size of our Mountain Grown sets has been a matter of comment wherever they have been compared with those from other sections. Having been grown in this high altitude, they will produce a crop earlier than sets from east or south and in half the time that it could be produced from seed.

Culture—Soil requirements are the same as with onion seed. Plant the sets three to four inches apart in the row, depending on the variety and twelve inches apart between the rows and two to three inches deep. It requires from 250 to 350 pounds for an acre.

Brown Bottom Sets—Lb., 25c; 3 lbs., 65c; 10 lbs., \$2.00, postpaid. Not prepaid, 10 lbs., \$1.15; 100 lbs., \$10.00.

Yellow Bottom Sets—Lb., 25c; 3 lbs., 65c; 10 lbs., \$2.00, postpaid. Not prepaid, 10 lbs., \$1.15; 100 lbs., \$10.00.

White Bottom Sets—Lb., 30c; 3 lbs., 75c; 10 lbs., \$2.25, postpaid. Not prepaid, 10 lbs., \$1.25; 100 lbs., \$11.00.

Onion Sets

Write for prices on quantities as market fluctuates greatly on onion sets.

Guernsey or Hollow Crown Parsnip

PARSNIPS

Parsnips are one of the most delicious of vegetables and have the great merit of being at their best after a freeze. It takes cold weather to bring out their sweetness. They may thus be harvested when the garden has little else to offer. Another great advantage is that they may be left in the ground all winter, and dug during thaws of in the spring before they sprout, when they furnish the first crop of the new year. Do not use fresh manure in soil where parsnips are to be grown. It will cause the roots to divide. A deep, rich soil is best for them, and they must be thinned out and given plenty of room to develop. 1 oz. for 100 feet of row, 5 to 8 pounds per acre.

Guernsey or Hollow Crown A variety with a hollow or cup-shaped top, where the leaf stem begins. The most popular and best variety for all purposes. Skin smooth and white and flesh tender, while the root grows eighteen to twenty inches long, the best part of it is contained in the first eight inches from the top. Our strain of Hollow Crown is the thick shouldered type particularly fine smooth and regular. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; lb., 90c, postpaid. Not prepaid, lb., 90c; 10 lbs., \$8.00.

PARSLEY

It is used for garnishing dishes of meat or cooked in soups. A few plants in a garden will yield sufficient for a family, providing the leaves are cut often and the plant not allowed to seed. Sow in drills as early in the spring as the soil can be dug in a fine, loose condition. It germinates best during cool moist weather.

One Ounce 500 Plants

Champion Moss Curled A very finely curled bright green and very ornamental variety.

Double Curled—A curled variety very hardy and easy to grow deep rich green and by many preferred to the extremely curled varieties.

Tripple Curled—Extra curled very hard, deep rich green very decorative.

Any of above, Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.10, postpaid. Not prepaid, lb., \$1.00; 10 lbs., \$9.50.

No one can afford to risk seed of doubtful origin and quality when the prices of high grade Tested Stocks are so reasonable. By means of our Trial Ground we select only the best. Poor seeds would be costly even if they were given to you.

PEPPERS

Peppers do best in hot climates, but can be grown successfully in most places. They require very rich soil or the seed germinates slowly. They should be sown in hotbeds in March or April and in a warm, sheltered border in May. And when all danger of frost is over the young plants should be transplanted in rows two feet apart and eighteen inches in the row in good, rich ground. One Ounce 500 Plants, Half Pound per Ace.

P.-W.'s New Wonder Bell Pepper. (See page 47). Anaheim Chili—It will supplant entirely Old Mexican Chili. Very desirable for canning because of freshness and pungency. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c; $\frac{1}{4}$ lb., \$1.40, postpaid. Not prepaid, lb., \$4.25.

P.-W.'s Chinese Giant Red This is a very large, deep red variety, almost twice the size of either Ruby King or Bull Nose. It is four or five inches thick at the top and about six inches long. Fruits mature only slightly later than the Ruby King, flesh sweet and extremely mild. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c; $\frac{1}{4}$ lb., \$1.50, postpaid. Not prepaid, lb., \$5.00.

Giant Crimson—About the size of Chinese Giant, similar in appearance; ripens earlier.

Large Bell or Bull Nose—Large, bright red.

Long Red Cayenne—Small, a bright scarlet, cone-shaped, pungent pods.

Neapolitan—Unusually mild and sweet, a bright red.

Pimento—The sweetest Pepper grown, as it does not contain the slightest trace of fieriness, medium size and of a shape which is desirable for filling. It may be used in salads and for flavoring.

Red Chili—Small bright red, hot and pungent.

Ruby Giant A cross between Ruby King and Chinese Giant, ripens earlier.

Ruby King—Fruits large, glossy red, very mild, sweet flavor and can be sliced and eaten like tomatoes. Best for making mangoes and most widely planted in the mountain states.

Any of the above not specially priced—Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c; $\frac{1}{4}$ lb., \$1.10, post paid. Not prepaid, lb., \$4.00; 10 lbs., \$37.50.

PEPPER PLANTS

Strong, healthy transplanted plants ready in May and June of Chinese Giant and Ruby King varieties. Price 35c per doz.; \$2.00 per 100, postpaid. By express, not prepaid, \$9.00 per 1000.

(For Early Plants Use Hot Caps. See page 25)

N. B. Five pounds and over at 10 lb. rates: 25 lbs. and over at 100 lb. rates.

P.-W.'s Chinese Giant Pepper

POTATOES

The Seed Potatoes we send out will be not only strictly true to name, but hand-sorted, clean, healthy and vigorous.

For early potatoes, which mature in eight to ten weeks from planting, the soil must be particularly rich. A rich clover bed, manured and broken the year before and planted to corn, beans, peas, oats, etc., is the best shape for giving a good yield of nice, clean potatoes. Stable manure had better be applied to the land the year before. Plant good sized pieces each containing no less than two or three eyes, fifteen inches apart for late ones. Requires 700 to 1200 pounds seed per acre.

Change Your Seed—There is a profit as well as satisfaction in planting our seed, for, not only is it pure, but the additional yield to be secured from a change of seed fully pays for the seed, so that the investment itself is nothing.

Early Ohio An old time favorite; matures early, and the potatoes are fit for use before fully ripe. Most growers here consider it the most profitable early market variety. Red River Strain, grown on virgin 10 lbs., 80c, not prepaid. 100 lbs., market price.

Idaho Russet This splendid variety has become the leading main crop potato in this region. The tubers are elongated, shallow eyes, and covered uniformly with a thickly netted skin. Good yielder and excellent keeper; always commands the top price in the market. 10 lbs., 80c, not prepaid.

Idaho Russet

Comparative Yields Prove Semeasan's Value

The left-hand pile represents the yield from three average hills of untreated seed potatoes; the center pile from three hills treated with formaldehyde; and the right from three hills of Semeasan disinfectant seeds. (See page 30 for further information and prices on Semeasan).

Early Bliss Triumph The leading early potato of today, and is now supplying two-thirds of the markets with new potatoes for the early

spring trade. There is a good reason why the Triumph should be popular. It is ten days earlier than the Early Ohio, and that is a big feature in favor of the farmer. It is not so liable to rot or scab. The tubers are nearly round with red smooth skin, and have shallow eyes. 16 lbs., \$1.00, not prepaid.

Early Rose (not prepaid) 10 lbs. 80c; 25 lbs. \$1.25

Irish Cobbler (not prepaid) 10 lbs., 80c; 25 lbs. \$1.25

Rural New Yorker (not prepaid) 10 lbs., 80c; 25 lbs. 1.25

Write for Quantity Prices—Market Fluctuates Rapidly.

HOW TO TREAT POTATOES WITH SEMESAN

One pound of Semeasan Bel, when treating a fairly large quantity of seed potatoes, is sufficient for 16 to 20 bushels. If the potatoes are very dirty they should be washed thoroughly, drained and surface dried before treating to secure the most economical and effective disinfection.

For each 10 quarts or 2½ gallons of water in the treating tub have ready one pound of Semeasan Bel. Sprinkle enough onto the water to cover its surface and stir it constantly until the disinfectant forms a whitewash-like mixture or dip. Keep stirring and adding the Semeasan Bel little by little until the required quantity is mixed into the water. The mixture is then ready for the dipping of the potatoes.

If properly mixed, it requires no further stirring during the treatment and retains its proper antiseptic strength to the last drop. Never commence dipping potatoes until the Semeasan Bel is in complete suspension.

The grower requiring only a small lot of seed may utilize the same effective treatment by mixing, in the manner already described, smaller proportionate quantities of the Semeasan Bel solution. Free booklet giving full details mailed on request; ask for it. See also page 30 of this catalog.

PUMPKINS

Plant in April or May, among corn or in the garden, in hills eight or ten feet apart, and otherwise treat in the same manner as melons. Three to four pounds per acre. One ounce to fifty hills.

Common or Connecticut Field—A productive, large, orange-colored field pumpkin, usually grown for stock feeding, but it also makes good pies. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c. Not prepaid, lb., 60c; 10 lbs., \$5.50.

Kentucky Field—Large, round-flat creamy yellow skin and flesh. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c. Not prepaid, lb., 60c; 10 lbs., \$5.50.

King of Mammoth or Jumbo

This strain produces the biggest pumpkins grown, sometimes measuring six feet in circumference and weighing 100 to 250 pounds. Outside color deep orange-yellow, flesh very thick, fine grained, tender, of bright yellow color and excellent quality for pies and other uses. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.15; 10 lbs., \$10.00.

Sugar Pie Pumpkin

Common or Connecticut Field—A productive, large, orange-colored field pumpkin, usually grown for stock feeding, but it also makes good pies. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c. Not prepaid, lb., 60c; 10 lbs., \$5.50.

Sugar Pie—A handsome and productive small pumpkin, ten to twelve inches in diameter; flat-round, skin orange. Flesh deep yellow of fine grain and very sweet. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid. Not prepaid, lb., 60c; 10 lbs., \$6.00.

By means of our Centerville Seed Trial Grounds, we know our Stocks. It costs more to make soil tests, but we are repaid handsomely in the good will of our customers.

DELICIOUS GREEN PEAS

Peas share with sweet corn, parsnips and squash the honor of being the sweetest of vegetables. Their sweetness is in proportion to the wrinkles in the seed, we are told. Smooth seeded varieties are little used except for very early sowing. They will stand cold weather in which the wrinkled sorts will rot.

Our seed peas are raised in high valleys in the Mountain States, by our most critical contract growers, from selected stock strains. The growing crops have been carefully inspected and "rogued," and the resulting seed crop thoroughly cleaned and "hand picked." Truly there can be no better stock found anywhere.

Culture—Peas thrive best in rather light, sandy soil which is not too rich or they will run too much to vines and not bear heavily. Sow as soon as the ground can be worked, in single or double rows from one and one-half to three feet apart. The dwarf varieties can be planted in rows twelve to eighteen inches apart. By using the various classes of peas and by making several sowings of each, good peas may be had for a long season. In the garden, the pods should be kept picked as the vine will then continue to bear longer. One pound 100 feet of row, 100 pounds per acre.

P.-W.'s Laxtonian —This is the largest podded of all early dwarf peas. A new sort of decided merit. The vines are vigorous, growing about 10 inches high and producing a large crop of good-sized pods, averaging from nine to ten peas to the pod, exquisite flavor and mature early. All the planters who have tried Dwarf Gradus consider it superior to either of the old Gradus or Thomas Laxton, and consider it to be the best of all the early dwarf peas.

From our own observations, at our trial grounds and the combined experiences of market gardeners in different sections, we have no hesitancy in pronouncing this excellent variety to be the Best Extra Early Pea in the West for Market Growers Pkt., 10c; lb., 35c; 2 lbs., 60c, postpaid. Not prepaid, 10 lbs., \$1.80; 100 lbs., \$16.00.

P.-W.'s Laxton Progress — See Novelties—New English Introduction.

P.-W.'s Alderman In our estimation, the best of the tall growing sorts for main crop.

This most valuable variety of recent introduction belongs to the old Telephone type.

The vines are tall, growing about four feet high, dark green, vigorous and exceedingly productive. The pods are of larger size, often five to five and one-half inches long, filled with large sweet tender peas of most delicious flavor. It answers every requirement of the market grower who wishes a pea that will stand shipping a long distance and still retain its dark green color. For the home garden it is equally desirable. Pkt., 10c; lb., 35c; 2 lbs., 60c, postpaid. Not prepaid, 10 lbs., \$1.80; 100 lbs., \$16.00.

Inoculate Peas with McQueens Inoculator for Increase Yield. See page 31.

P.-W.'s Dwarf Gradus

P.-W.'s New World's Record Pea—See novelties.

P.-W.'s Dwarf Prize This handsome new wrinkled pea is so hardy that it may safely be planted as early as the hard-seeded "Extra Earlies." The plants are dwarf, growing about 14 inches high, very stout and exceedingly productive, and quality is all that could be desired, exceptionally sweet and tender. It is the ideal variety for the home garden for early planting. Pkt., 10c; lb., 30c; 2 lbs., 55c, postpaid. Not prepaid, 10 lbs., \$1.80; 100 lbs., \$16.00.

Little Marvel The most satisfactory pea in the average home garden. In season it is the same as Nott's Excelsior and American Wonder. The big point in its favor is that it remains in prime picking condition a week longer than the older sorts. Very productive, hardy, luscious and sugary. Vine 18 inches, pod dark green, well filled. Pkt., 10c; lb., 30c; 2 lbs., 55c, postpaid. Not prepaid, 10 lbs., \$1.80; 100 lbs., \$16.00.

Other Goods Peas

Extra Early Varieties
Alaska Extra—(Smooth)
Gradus or Prosperity—
Thomas Laxton—

Early Varieties
American Wonder—
Nott's Excelsior—

Price, any of above varieties, Pkt., 10c; lb., 30c; 2 lbs., 55c, postpaid. Not prepaid, 10 lbs., \$1.75; 100 lbs., \$15.50.

Five pounds and over at 10-lb. rates. 25 pounds and over at 100-lb. rates.

Main Crop Varieties
Bliss Everbearing—
Dwarf Telephone
P.-W.'s Dwarf Defiance
Yorkshire Hero
Strategem—
Mammoth Melting
Sugar Edible Pod

Alderman

RHUBARB

Sow the seed early one inch deep and when the plants are large enough, thin them to four or five inches apart. The next spring or fall transplant them three feet apart each way in deep, rich soil. For forcing, take up some large roots and place them in a dark corner of the cellar or greenhouse.

One ounce for 50 feet of drill, 8 to 10 pounds per acre.

Victoria—Very large and tender. The best variety to plant and the one most generally used. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.10; 10 lbs., \$10.00.

Roots—Mailing size, 2 or 3 eyes to each clump.

Each, 25c; \$2.75 per dozen, postpaid. By express or freight 20c each; \$2.00 per dozen; \$15.00 per 100.

SALSIFY

Used the same as carrots; sometimes made into cakes and fried like oysters, which they resemble in flavor. Cultivate the same as carrots; can remain in the ground all winter for early spring use, but should be taken up before it starts growing. Succeeds best in light, well enriched mellow soil. Sow early in the spring in drills 12 to 15 inches apart, 1 inch deep; thin to 6 inches.

Mammoth Sandwich Island—Grows to a very large size and resembles a good-sized parsnip. Mild and delicately flavored; very popular. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid. Not prepaid, lb., \$1.30; 10 lbs., \$12.50.

Swiss Chard—See page 54.

P.-W.'s Sparkler

P.-W.'s Scarlet Turnip White Tipped—Well known market variety. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c, postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00; 100 lbs., \$50.00.

Long Varieties

lolele White, slender and tapering in shape. It quickly grows to market size; is crisp, brittle, mild and sweet.

Long Scarlet Short Top—Bright carmine.

Prices, any of above, Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c, postpaid. Not prepaid, lbs., 65c; 10 lbs., \$6.00; 100 lbs., \$50.00.

**WE FURNISH FIVE POUNDS
AND OVER AT 10-Lb.
RATES**

**25 POUNDS AND OVER AT
100-LB. RATES**

White Icicle Radishes

SPINACH

For spring and summer use, sow early in drills, one foot apart and one inch deep, as soon as the ground can be worked; and every two weeks thereafter for a succession. For winter or early spring use, sow in september in well-manured ground, covering with straw on the approach of severe weather. It is hard to get the ground too rich. The stronger the ground the larger and more succulent will be the leaves. One ounce 100 feet, 10 to 12 pounds per acre.

King of Denmark The plants are of rapid growth, resemble the Long Season in type but leaves are more crumpled or blistered and are of darker green color. The leaves are thick, stand well after cutting and are of good quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 45c, postpaid. Not prepaid, lb., 35c; 10 lbs., \$3.00; 100 lbs., \$25.00.

P.-W.'s Nobel Giant "Thick Leaved"

By far the best of the "smooth-leaved" sorts. It produces a large mass of rather smooth, very thick rounded leaves, of enormous size. Although it is a very quick grower it stands a long time before bolting to seed. Being a very shy seeder, it is impossible to grow the seed at the price of the old types. It is highly to be recommended for both the home and market garden. Because of the greater tonnage produced and the smoothness of the leaves which makes washing easy, this variety is also unequaled for canning. Seed round. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 55c, postpaid. Not prepaid, lb., 45c; 10 lbs., \$4.00; 100 lbs., \$35.00.

P.-W.'s Improved Bloomsdale Savoy-Leaved

—Best for fall, but if sown very early in the spring will produce a good crop. This early, productive variety produces large glossy, dark green leaves, crumpled or blistered, very thick and of great substance. This will be the most largely grown spinach on the market; as the tendency to bolt to seed in warm weather, has been largely eliminated in this improved variety. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 45c, postpaid. Not prepaid, lb., 35c; 10 lbs., \$3.00; 100 lbs., \$25.00.

CRISP RADISHES

For the best results the soil should be light, well pulverized, rich and mellow to insure quick growing, supplying plenty of water. Radishes permitted to grow slowly become tough and pithy, light frosts will not kill young plants, but will check the growth and they do best when kept growing right along. For a succession sow ever ten days. During the hot months of summer, winter radishes will do better than the early sorts. Winter radishes can be stored, same as potatoes furnishing an acceptable relish through the winter months.

There is no crop that will bring quicker returns for the market gardener. The leading variety is "P.-W.'s Sparkler"; or if you wish an all scarlet, use "P.-W.'s Earliest." Our recommendations are P.-W.'s Sparkler for early or succession; Icicle for second early; and Celestial for winter use.

P.-W.'s Sparkler Radish The Leader for Market—Color is scarlet and white, extremely quick to mature, being ready for the table in 20 days from planting. Valuable for forcing under glass, as well as for the open. Skin very smooth, and its color gives it an appetizing appearance. Selected stock seed. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c, postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00; 100 lbs., \$50.00.

P.-W.'s Scarlet Globe—See Novelties.

French Breakfast—Oval form, bright scarlet color, tipped with white. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c, postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00; 100 lbs., \$50.00.

Winter Varieties

Seed for winter radishes should be sown about the first of August in rich, warm, sandy loam, in rows about twenty inches apart, covering half an inch deep. When well up thin to three inches apart in the row and give frequent cultivation. For winter use, the roots should be pulled and packed in damp sand and stored in a cool cellar.

Chinese Rose—Half-long, flesh pink, solid.

Long Black Spanish—Roots black. Round Black Spanish—Globe shaped.

Celestial or White Chinese—Pure white, firm.

Prices, any of above, Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 85c, postpaid. Not prepaid, lb., 80c; 10 lbs., \$7.50.

King of Denmark Spinach.

Bloomsdale Savoy—Regular stock of this well known variety. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 40c, postpaid. Not prepaid, lb., 30c; 10 lbs., \$2.75; 100 lbs., \$22.50.

SQUASH

Squash should be planted in warm, light, rich soil, after the weather has become thoroughly settled and warm, as they are very sensitive to frost and cannot be sown until all danger of frost is over. Plant in well manured

hills in the same manner as cucumbers or melons. The bushy varieties two to three feet apart each way and the running kinds six to eight feet. One ounce 100 feet 2 to 3 pounds per acre.

Cocozelle (Italian Veg. Marrow)

WINTER VARIETIES

Banana—Splendid new variety for fall and winter, dark green banana shape 20 to 25 inches long; Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid. Not prepaid, 10 lbs., \$12.00.

Chicago Warty Hubbard

Chicago Warty Hubbard Attractive dark green, flesh dry and sweet. Very hard shell insures long keeping qualities. Considered by many an improvement on the old Hubbard. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.20, postpaid. Not prepaid, lb., \$1.10; 10 lbs., \$10.00

Delicious—In shape resembles the Hubbard; flesh very thick, deep orange color. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.15; 10 lbs., \$11.00.

Pike's Peak or Sibley—Large oval fruits, skin in color; flesh golden-yellow, very best quality. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25 Not prepaid, lb., \$1.10; 10 lbs., \$10.00.

Golden Hubbard—Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.20, postpaid. Not prepaid, lb., \$1.10; 10 lbs., \$10.00.

Utah Giant Field—Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid. Not prepaid, lb., 95c; 10 lbs., \$9.00

Swedes or Rutabaga

Rows should be at least two and one-half feet apart and the plants thinned to eight to twelve inches. Roots frequently grow to be an enormous size. The roots should be taken up before severe frost. Cut off tops within an inch of the crown. Store in a cool cellar or pit. One ounce 100 feet, 2-3 pounds per acre.

Improved Purple Top—Remarkable for uniform shape and fine quality; a splendid keeper. Skin smooth; a beautiful yellow color, fine grained. Very sweet and tender. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00.

P.-W.'s Neckless Yellow Purple Top—Improved strain of Rutabaga without neck, flesh yellow and fine grained, best of all the yellows. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00.

Purple Top Globe Turnip

	Pkt.	Oz.	¼ lb.	lb.
Extra Early White Milan	5c	15c	40c	\$1.15
Early Purple Top Strap Leaf	5c	10c	25c	.75

TURNIPS

Banana Squash

For early use, sow as soon as the ground can be worked in the spring, in drills twelve to fifteen inches apart, and thin out to six to nine inches in the row. For succession, continue to sow every two weeks until June. For fall or winter crops sow in July or August. One ounce 100 feet, 2 pounds per acre.

Purple Top White Globe The Best Flavored and Largest Yields Grown. Without an Equal for All Purposes. The flesh is firm, fine grained, white and of most excellent flavor. It is a fine keeper, extensively grown and pitted for fall and winter, and produces enormous crops. In our estimation it cannot be beat either for home or market planting. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid. Not prepaid, lb., 65c; 10 lbs., \$6.00.

Extra Purple Top Milan—Earliest turnip in cultivation; flat, smooth, of medium size, with bright purple top and few leaves. Adapted to spring or fall. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid. Not prepaid, lb., \$1.10; 10 lbs., \$10.00.

Other Good Varieties

	Pkt.	Oz.	¼ lb.	lb.
Snowball	5c	10c	25c	.75
White Egg	5c	10c	25c	.75
White Flat Dutch	5c	10c	25c	.75

We furnish five pounds and over at 10 pound rates; 25 pounds and over at 100 pound rates.

TOMATOES

Culture For early plants sow in hot beds or boxes early in March, in drills five inches apart, one-half inch deep. When the plants are about two inches high, transplant into another four inches apart each way. Plant out in the open ground as soon as danger from frost is over, four feet apart each way, in hills. Water freely at the time of transplanting. When the first fruit is set, pinch off the ends of the branches to attain early fruit. For late use sow in sheltered border in May and set out the plants in July. The green fruits can be picked off before late frost and ripened under glass. One ounce, 1,000 plants, two ounces per acre.

P.-W.'s "King of Earlies" (T. L. E. Strain)—A new blood red tomato, ripening in 95 days. Very distinct. Not quite as large as the Red Rock but two weeks earlier, ripening about two days after the Earliana, and very much more productive. Twenty days ahead of either Stone or Greater Baltimore. The vine is short-stemmed, unusually healthy and produces very solid, smooth, meaty and most attractive fruit which is round at the bottom, quite free from cracks, with very little cavity at the stem end. It is similar in appearance to Chalk's Jewel but is five days earlier, considerably larger fruited, far more productive, picking over a longer period, better color and more solid. It will prove a leader in every section where an early tomato is desired. Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$4.50.

Avon This is a very distinctive type of a selected strain of "Earliana" which has been selected with respect to earliness, uniformity to type, and carrying qualities. Our tests last year showed it to be at least a week earlier than the old strain of "Earliana," more solid and meaty, insuring better carrying qualities. Market Gardeners especially will be interested in this new strain. Price: Pkt., 10c; oz., 40c; ¼ lb., \$1.25; lb. \$3.75.

Marglobe This was primarily bred to produce a wilt resistant, globe-shaped red tomato. The results have exceeded expectations. It is hardy, wilt resistant and appears to be destined to command a leading place in districts where wilt is prevalent. In addition it undoubtedly will prove equally desirable wherever a red tomato of superior quality is desired. It is a midseason variety, ripening its first fruits in from ninety to ninety-five days.

The fruits are quite large, averaging 7½ ounces in weight, and are nearly perfect globe-shaped with but little depression at the stem end. They show very little tendency to crack but ripen up perfectly. They are a deep scarlet in color and present a very attractive appearance. The flesh is firm, thick, of first quality, and is only mildly acid. This is a superior sort for table use and a very desirable canning tomato. Pkt., 10c; oz., 50c; ¼ lb., \$1.75; lb., \$6.00.

P.-W.'s Sunnybrook Tomato

This is a selection from Burpee's Sunnybrook Earliana, which has been recognized as one of the earliest of the red tomatoes. Trial Ground tests show it to be very close to Avon in general appearance and earliness. All of the fruits on the entire crop are ripe about the same time and entire crop can be gathered within a period of two to three weeks. This is a decided advantage for the early Market Gardener as advantage can be taken on higher prices before the second earlies are on the market. Pkt., 10c; ¼ oz., 25c; oz., 45c; ¼ lb., \$1.50; lb., \$4.50.

A good garden fertilizer is a profitable investment, yielding many times its cost Write us for details.

Recollection of quality remains long after a slight difference in price has been forgotten.

P.-W.'s Sunnybrook Tomato

OTHER EARLY VARIETIES

	Pkt.	Oz.	¼ lb.	lb.
Bonny Best	5c	30c	.90	3.00
Chalk's Early				
Jewel	5c	30c	1.00	3.50
P.-W.'s Extra				
Ey Earliana	5c	30c	1.00	3.50
Jno. Baer	5c	30c	1.00	3.50
San Jose Can.	5c	30c	1.00	3.50

MAIN CROP VARIETIES

	Pkt.	Oz.	¼ lb.	lb.
Dwt Champion	5c	30c	1.00	3.50
Gr. Baltimore	5c	30c	1.00	3.50
June Pink	5c	30c	1.00	3.50
Landreth's Red				
Rock	5c	30c	.90	3.00
Matchless	5c	30c	.90	3.00
New Stone	5c	30c	1.00	3.50
Ponderosa	5c	50c	1.50	4.50

Small Fruited Varieties

	Pkt.	Oz.	¼ lb.
Red Cherry	5c	40c	1.25
Strawberry Ground			
Cherry or Husk	5c	40c	1.25
Yellow Pear	5c	40c	1.25

Tomato Plants

Strong, sturdy transplanted stock of King of Earlies, New Stone and Marglobe varieties ready in May and June. Doz., 35c; 100 at \$2.30, postpaid. Not prepaid, 25c per doz; \$1.50 per 100; \$12.50 per 1000.

NOTE:—We cannot send plants and other perishable items C.O.D. unless 50 per cent payment accompanies order

Aromatic, Medicinal and Pot Herbs

Most of the varieties of herbs thrive best on sandy soil and some are flavored when grown on that which is rather poor. In all cases the soil should be carefully prepared and well cultivated, as the young plants are of the most part delicate and easily choked out by weeds.

Sow as early as the ground can be made ready, in drills sixteen to eighteen inches apart, taking pains that the soil is fine and pressed firmly over the seed, or they may be planted as a second crop—the seeds sown in beds in April and the plants set out in June. Most of them should be cut when in bloom, wilted in the sun and thoroughly dried in the shade.

	Pkt.	Oz.
Anise (Pimpinella anisum). Seeds aromatic and carminative.	5c	20c
Caraway (Carum Carui). Used in flavoring liquors and bread.	5c	20c
Catnip (Nepeta cataria). Has medicinal qualities.	5c	70c
Coriander (Coriandrum sativum). Seeds aromatic.	5c	20c
Dill (Anethum graveolens). Seeds used for flavoring vinegar.	5c	20c
Horehound (Marrubium vulgare). Has medicinal qualities.	5c	40c
Lavender (Lavandula vera). True. For oil and distillation of lavender water	5c	50c
Marjoram (Origanum Majorana). Sweet. Used in seasoning.	5c	30c
Rosemary (Rocmarinus officinalis). Yields an aromatic oil and water	5c	50c
Sage (Salvia officinalis). Common. A culinary herb; also used in medicine	5c	25c
Savory (Satureja montana). Winter. Used as a culinary herb.	5c	25c
Thyme (Thymus vulgaris). Broad-leaved English. Used as a seasoning	5c	50c

Garden Sage Plants—Field Grown, 25c each; \$2.50 per dozen.

ANNUAL BEDDING PLANTS

From our Centerville Greenhouses we are able to supply a complete selection of Bedding Plants—both potted and grown in flats. They are ready for planting out when warm weather begins, usually the latter part of April or in May in the Salt Lake Valley. The plants we offer are either grown from the choicest seeds or cuttings from select stock plants. They will surely please the most critical. (For Perennial plants see pages 78-83).

ANNUAL SEEDLING PLANTS (Ready May 25 to June 15)

These are strong plants transplanted stock, flat grown, from choicest seed strains of the following varieties:
Price—50c per doz.; \$3.50 per 100. If by mail add 15c per doz. for postage and packing.

Ageratum —Dwarf Blue	Pentstemon —Mixed
Alyssum —Dwarf White	Petunia —Bedding Mixed
Asters —Mixed	Phlox —Drummond Mixed
Candytuft —Mixed	Scabiosa —Mixed
Clarkia —Mixed	Salvia —Scarlet
Cosmos —Mixed	*Snapdragon —Mixed
Larkspur —Mixed	*Stock —10 weeks Mixed
Lobelia —Dwarf Black	*Verbena —Mixed
Marigold —African Mixed	*Zinnia —Mixed
Marigold —French Mixed	

(*) Marked varieties can be furnished in separate colors at same price.

POT GROWN PLANTS

These plants are grown from cuttings from selected stock plants. Ready from April 15 to June 15. Prices f.o.b. Salt Lake City. If wanted by mail add 10c each extra for postage. We recommend express shipment where possible.

	Size	Each	Doz.
Acaranthus —Red Foliage	2 1/2 in.	25c	\$2.00
Begonia —Assorted	2 1/2 in.	25c	2.00
Coleus —Brilliant Colored Leaves	2 1/2 in.	25c	2.00
Geraniums —Double Assorted Colors	3 in.	30c	3.00
Geraniums —Varigated Leaved	2 1/2 in.	25c	2.00
Geraniums —Ivy Leaved	3 in.	30c	3.00
Geraniums —Martha Washington	3 in.	35c	3.50
Ice Plant —Dwarf Traller	2 1/2 in.	25c	2.00
Marguerite —White Daisy-Like	2 1/2 in.	25c	2.00
Petunias —Giant Double Fringed	2 1/2 in.	25c	2.00
Petunias —Giant Single Fringed	2 1/2 in.	25c	2.00
Vinca —Varigated Leaved Trailing	2 1/2 in.	25c	2.00
Wandering Jew —Varigated	2 1/2 in.	25c	2.00

P.-W.'s LARGE FLOWERING CANNAS

Canas are the most economical and effective plants employed in our Gardens. They bloom from early summer until frost in all sections of the country, succeeding in any sunny position in any kind of soil, but responding quickly to liberal treatment. For best results the beds should be spaded about two feet deep, and a generous amount of well-decayed manure of any kind thoroughly incorporated, and at all times freely watered. They are most effective when planted in masses of one variety, setting out the plants about two feet apart. They are also very effective when planted in mixed borders, where their long flowering season insures a constant display of color. The dormant roots should be planted inside in February or March and transplanted out-of-doors in the middle of May when the weather is warm and settled. Do not water too freely until well started, then they should have an abundance. Plant 18 inches apart. We list below six of the best Cannas in cultivation:

Mrs. Alfred Conard One of the most popular varieties grown, one of the most effective. Very large salmon-pink. Green foliage. 4 feet.

Cannas for Beds and Borders

P.-W.'s CANNA COLLECTION OFFER "A"—One strong dormant root each of above six varieties for 75c, postpaid.

Summer Flowering Bedding Plants, Liberty Park, Salt Lake

P.-W.'s PANSY PLANTS

Without qualification these plants are excelled by none for beauty, variety of color and markings. Grown with the utmost care from the world's best mixture of Pansy seed, it is not putting it too strong when we say, "Positively there are none better." First bloom about April 1. Prices: Large plants in bloom, per dozen, 60c; 100 plants, \$3.75—add 15c per dozen for postage.

Important—Plants sent by mail have but little soil left on roots, and should receive careful attention upon arrival. If they appear withered, place in lukewarm water for an interval of ten to fifteen minutes. This will revive them.

VEGETABLE PLANTS

We are able to supply the following varieties. For details see pages in Vegetable section.

Asparagus	See page 51	Egg Plant	See page 58
Cabbage	" " 57	Horse Radish	" " 59
Cauliflower	" " 56	Onion	" " 65
Celery	" " 58	Pepper	" " 66
Chives	" " 51	Rhubarb	" " 68
		Tomato	" " 71

King Humbert Four feet. Scarlet flowers, bronze foliage; greatest favorite today. This remarkable "Gold Medal" Canna has been the sensation of the past twelve years. It is a cross between the orchid-flowering and the French or Crozy type, combining the best features of both, the large flowers of one with the free-blooming character of the other, and the bandsome broad, tropical foliage.

The President Four feet. In color a rich glowing scarlet with immense rounded flowers, seven inches across when fully open, are produced on strong erect stalks well above the heavy foliage. Free-bloomer and strong grower.

Shenandoah Four feet. Pink. Exactly like Mrs. Alfred F. Conard, except that the foliage is bronze.

Wyoming Bronze purple foliage, immense spikes of large massive orange flowers. Six feet.

Yellow King Humbert Four feet. Foliage a very dark green, flowers a deep rich yellow, softly spotted and blotched with bright red; measuring 5 to 7 inches across, individual petals 3 to 3 1/2 inches in diameter. An orchid flowering sport of the well-known variety King Humbert. Some plants will occasionally give a scarlet or scarlet-striped flower, which we consider an improvement rather than a defect.

Price—Dormant Roots—Extra large size any of above, each, 15c; dozen, \$1.50, postpaid. Not prepaid, \$1.25 per dozen; \$9.00 per 100.

Canna Plants Strong, well established pot grown plants, ready in May. All of the above named varieties, each, 30c; dozen, \$3.00; 100, \$20.00. Plants all f.o.b. Salt Lake. We recommend express shipment.

MISCELLANEOUS SPRING BULBS

Apios Tuberosa

Splendid hardy climber. Will grow to a height of 8 to 10 feet, vine and foliage resembling a Wistaria; deep purple color; fragrant. Each, 15c; doz., \$1.50; 25 for \$2.50, prepaid.

Cinnamon Vine

(Dioscorea Batatas)

A rapid growing climber, taking its name from the peculiar fragrance of the delicate white flowers. Leaves heart-shaped, bright glossy green, growth rapid. Each, 15c; dozen, \$1.50, postpaid.

Lily of the Valley

(Convallaria Majalis)

American Pips (for outside planting)—Extra strong clumps, 50c each; \$5.00 per doz. Pips, 25 for \$1.00; 100 for \$3.50.

Maderia Vine

One of the most popular climbers, succeeds in any location, doing best, however, in a sunny sheltered place; foliage very dense. Strong tubers. Each, 10c; dozen, 90c, postpaid.

Tuberose

The lovely waxy flowers are so fragrant that a few tips will perfume a room. The tips may be taken off as they expand, and if you do this gradually a few plants will provide for a long period. For open ground culture, plant in May or June in a warm location.

Double Dwarf Pearl—This is an improved strain of the Dwarf Pearl, bearing very heavy spikes of double flowers. Each, 8c; dozen, 75c; \$5.50 per 100, postpaid.

Tuberose Double Dwarf Pearl

Caladium (Elephant's Ear)

Caladium or Elephant Ear

Plant in rich soil and give plenty of water. With such treatment a selected size bulb will make a plant about 4 feet high, with leaves 3 feet long and 20 inches wide. First size, large bulbs, each, 20c; dozen, \$2.00; per 100, \$15.00. Jumbo size bulbs—45c each; 3 for \$1.25; dozen, \$4.00.

HARDY LILIES

Hardy lily bulbs, carried over the winter in cold storage, may be planted in the spring, and will blossom in midsummer, when the garden needs their glory. See that the bulbs have a well-drained place, preferably in partial shade. All herbaceous borders should have a few lilies scattered through them. The sorts offered below can be planted with excellent results during the early spring months. It is in the hardy border that lilies do best, as they get the benefit of the shade of the surrounding plants, which is so necessary for their welfare; other varieties should be planted in the autumn, and are offered in our autumn catalog.

Lilum Hansonii—The flowers are a deep orange-yellow shade, spotted brown. It grows 3 to 4 feet high, blooming during the latter part of June; the bulbs, which should be planted six to eight inches deep, require a covering of straw or boughs of trees to keep them from starting into growth too early. Plant in semi-shade. Each, 50c; per three, \$1.40; dozen, \$5.50.

Regal Lily

Umbellatum Erectum—Although the Umbellatum class through years of hybridation contains innumerable named varieties, at present we deem only one, Erectum, deserving a place in the garden. The flowers are blood-red and slightly or not at all spotted. Plant bulbs 8 inches deep. Each, 40c; dozen, \$4.00; per 100, \$27.50.

Aratum (Golden-banded Japan Lily)—Undoubtedly one of the finest. Its large, graceful, fragrant flowers are composed of six petals of a delicate ivory-white color, thickly studded with chocolate-crimson spots and striped through the center a golden-yellow! 3 to 5 feet. July, September. Plant bulbs 8 to 10 inches deep. Large flowering bulbs. Each, 40c; dozen, \$4.00; per 100, \$27.50.

Regale (Myriophyllum)—This new variety from Western China is admittedly one of the most beautiful Garden Lilies yet introduced. It grows 3 to 5 feet high, and blooms out of doors in July. It is perfectly hardy and flourishes under very varied conditions, the large trumpet shaped, delicately scented flowers, which are produced freely, are ivory-white, shaded pink, tinged with canary yellow at the base of the petals. Plant 8 inches deep. Strong flowering bulbs. Each, 50c; dozen, \$5.00; per 100, \$35.00.

Superbum—One of the most satisfactory Lilies that can be planted either in the garden or in meadows. Often grows over 8 feet high and produces 20 to 30 orange-red flowers in July when flowers are apt to be rather scarce. Plant bulbs 5 inches deep in moist peaty soil for best results. Each, 25c; dozen, \$2.50; per 100, \$18.00.

Tigrinum Splendens (Tiger Lily)—Because it is so widely cultivated in this country this lily has come to be looked upon as native, but it originally came from China and Japan. The flowers are orange, spotted purple, opening in August and September on 2-4 foot stems. Plant bulbs 9 inches deep. Each, 20c; 3 for, 50c; dozen, \$2.00; per 100, \$15.00.

Speciosum Rubrum (The Lance-Leaved Lily)—Thousands being grown each year in greenhouses. The typical form is white, flushed pink, and heavily spotted with carmine. The stem is about 4 feet high and has fresh, green, lance-shaped leaves, and the frilly flowers face downward and carelessly roll back their petals, while the stamens and pistil curl way out. A very beautiful lily, perfectly hardy, very seldom diseased and a late August and early September bloomer. Plant the bulbs 8 to 10 inches deep. First size, bulbs. Each, 45c; dozen, \$4.50; 100, \$35.00.

GLADIOLUS (Sword Lily)

A succession of bloom may be had from July to October by making planting two weeks apart to the end of June. To make a good show they should be planted from three to four inches apart each way, the large bulbs being covered about six inches deep, small ones from three to four inches. Six and over furnished at dozen rates; 25 and over 100 rates. **Delivery Charges on all Gladiolus Are Prepaid at Catalogue Prices.** All prices are based on first size bulbs, unless otherwise noted.

Anna Eberius—Dark velvety purple, throat deeper. Each, 7c; doz, 70c; 100, \$5.00.

Baron Hulot—The only real blue Gladiolus on the market. Each, 8c; dozen, 80c; 100, \$6.00.

Crimson Glow—Deep crimson blooms with a rich glowing sheen. Fine for garden display and for cutting. Each, 6c; doz., 60c; 100, \$4.50.

Dr. F. E. Bennett—Peach-red overlaid, with flame-scarlet, throat stippled with ruby and white. A very large, attractive red with plenty of vigor. Each, 15c; dozen, \$1.40; 100, \$10.00.

Evelyn Kirkland—Rose pink shading to pale pink, scarlet blotches on lower petals. Each, 5c; dozen, 50c; 100, \$4.00.

Fay Lamphier—Large flowers with coral lustre and cerise blending. Price, each, 8c; doz., 80c; 100, \$6.00.

Golden Measure—Very large, dark golden, yellow; the best in the yellows. Each, 10c; doz., \$1.00; 100, \$7.00.

Giant Nymph—A giant-flowered light rose-pink with creamy yellow throat. It contains some Primulinus blood. Each, 7c; doz., 70c; 100, \$5.00.

Halley—Large open flowers of a delicate salmon pink; very early. Each, 5c; dozen, 50c; 100, \$3.50.

L. Immaculee—Pure waxy white. Each, 7c; dozen, 70c; 100, \$5.00.

Le Marechal Foch—Rose-pink, resembling America in color but deeper. Each, 5c; doz., 50c; 100 \$3.50.

Los Angeles—Shrimp pink with orange-carmine throat. The color tone is one of unusual delicacy and so pleasing as to be greatly admired. Each, 6c; doz., 60c; 100 \$4.50.

Marshall Foch—Finest warm salmon pink with small red blotch in throat; giant flowers and stem slightly ruffled. Each, 12c; dozen, \$1.20; 100 \$9.00.

Mrs. Frances King—A striking shade of scarlet. Each, 5c; dozen, 50c; 100, \$3.50.

Mary Plokkford—Creamy white throat, soft sulphur-yellow. Each, 7c; doz., 70c; 100, \$5.00.

Mrs. Frank Pendleton—A lovely salmon pink with brilliant deep red blotches in the throat. Each, 6c; doz., 55c; 100, \$3.75.

Mrs. Frederick C. Peters—Beautiful shade of rose-lilac, with crimson blotch bordered white on lower segment; resembling an orchid in color. Flowers very large. Each, 8c; doz., 80c; 100, \$6.00.

P.-W.'s PRIZE WINNER COLLECTIONS OF SIX SPECIAL MERIT GLADIOLUS

These collections contain Dr. F. E. Bennett, Mrs. F. C. Peters, Mrs. H. E. Bothin, Mrs. Leon Douglas, Golden Measure and Rose Glory.

- (A) 12 Bulbs (2 of each, value \$1.18) for.....\$1.00
- (B) 24 Bulbs (4 of each, value, \$2.36) for.....\$1.75
- (C) 48 Bulbs (8 of each, value, \$4.72) for.....\$3.25

Purple Glory Gladiolus

Mrs. H. E. Bothin—Light salmon-pink with flame-scarlet center. A showy variety with ruffled petals. Each, 10c; doz., \$1.00; 100, \$7.50.

Mrs. Leon Douglas—Magnificent large blooms on long heavy spikes. A brilliant Begonia-rose, striped orange and scarlet. Each, 10c; doz., \$1.00; 100, \$7.50.

Mrs. W. H. Phipps—LaFrance-pink overlaid with light rose-salmon, lighter toward the center. Lower petals very faintly striped and more speckled with ruby. Flowers enormous. Each, 20c; dozen, \$2.00; 100, \$14.00.

Mrs. Dr. Norton—Delicate cream and pink, deepening towards the edges; sulphur-yellow center. Each, 7c; dozen, 70c; 100, \$5.00.

Panama—Solid deep pink. Each, 6c; dozen, 55c; 100, \$4.00.

Prince of Wales—Beautiful light salmon shaded orange. Each, 6c; dozen, 60c; 100, \$4.50.

Red Canna—One of the best scarlet-reds. Each, 7c; dozen, 70c; 100, \$5.00.

Rose Ash—Peculiar soft, old-rose tones, fading to ashes of roses on the outer edges of petals. Very unique in coloring and greatly admired. Each, 7c; doz., 70c; 100, \$5.00.

Schwaben—A clear canary-yellow with a small blotch of deep garnet in the throat. Each, 6c; dozen, 60c; 100, \$4.25.

War—Deep blood-red shaded crimson. Each, 7c; doz., 70c; 100, \$5.00.

Ruffled Varieties

Crinkles—Attractively ruffled and crinkled. Solid deep pink. Each, 11c; doz., \$1.10; 100, \$8.00.

Fern Kyle—A large ruffled flower of creamy white color. Vigorous grower. Creates a sensation wherever shown. Each, 14c; dozen, \$1.40; 100, \$10.00.

E. J. Shaylor—Splendid new pure deep pink, ruffled. Each, 7c; dozen, 65c; 100, \$4.50.

Kunderdi Glory—Large, ruffled, creamy apricot with light tint of pink and fine markings of red on lower petals. Each, 10c; dozen, \$1.00; 100, \$7.00.

Orange Glory—Large ruffled, grand orange colored, with beautiful lighter throat. Very rich and striking color. Each, 10c; dozen, \$1.00; 100, \$7.00.

Purple Glory—Deepest velvety maroon red, faint shading of purple with almost black throat. Beautifully ruffled. Each, 12c; dozen, \$1.20; 100, \$8.50.

Rose Glory—A very large and beautiful ruffled variety. Purest rose-pink color, deeper throat, extra fine. Each, 8c; dozen, 80c; 100, \$5.75.

Scarlano—Ruffled flower, excellent for cutting. The mammoth blooms are a bright orange-red color. Each, 10c; doz., \$1.00; 100, \$7.50.

Tycko Zang—Ruffled, clear salmon-pink blooms with a white throat faintly dotted with deep cerise. The blooms are well placed on a fine straight spike. Each, 7c; doz., 70c; 100, \$5.00.

White Glory—A gorgeous pure white of extra size. Nicely ruffled with beautiful iris blue throat. Grand. Each, 10c; dozen, \$1.00; 100, \$5.00.

Primulinus Type

Alice Tiplady—Orange-saffron. Each, 5c; doz., 50c; 100, \$3.50.

Maiden Blush—An exquisite pink with lighter throat. Very dainty flower on graceful spike. Each, 5c; doz., 50c; 100, \$3.50.

Souvenir—One of the best yellow Primis. Large flowers of purest color. Each, 7c; doz., 70c; 100, \$5.00.

Primulinus Hybrids—Orchid-like flowers, slender, strong spikes. Colors brilliant and beautiful. Mixed colors. Dozen, 50c; 100, \$3.50.

A COLORFUL GARDEN OF GLADIOLI FOR \$1.00

A dollar never bought more of beauty than our **Special Offer of 30 Flowering Size Bulbs of P.-W.'s Glorious Gladioli**, including not less than **Five Varieties** for \$1.00. Rarely are flowers of the highest merit the most easily grown and surest of success. But such is the case with Gladioli. If there is room for a single flower in the garden it should be this.

30 BULBS, Flowering Size, not less than 5 Varieties, postpaid, for \$1.00.

P.-W.'s Superb Mixed—Our special mixture from the best named and hybrid Grandavenis, Chidsli and European types. A well blended combination of all colors, shades and combinations. Dozen, 50c; 100, \$3.50.

DAHLIAS

Plant when danger of frost is over. If possible plant in an open, sunny situation. Prepare the soil thoroughly by deep digging. Be moderate in the use of both manure and water. Never plant when soil is wet. Lay the tuber flat on its side and cover it four inches deep, pressing the soil firmly on the tuber. Keep the soil loose and mellow by frequent hoeing, drawing the soil to a slight hillock around the plant.

P.-W.'s SPECIAL MERIT DAHLIAS

Amun Ra or The Sun God (Decorative)—Wonderfully distinct both in color and formation, giant in size, and perfect in shape. The outer petals are of gorgeous copper and orange tones shading to gold and amber, deepening in the centre to a dark reddish brown, the effect as a whole being that of a gorgeous sunset. Each, 50c.

Avalon (Decorative)—Pure clear yellow, the large flowers are very distinct and pleasing in shape, always full to the center, and produced in great abundance on strong stems. This is a flower with every good quality. A remarkably good keeper when cut. Each, 75c.

Champagne (Decorative)—Aside of being one of the largest Dahlias it is a model for shape, habit of growth, stem, freedom of flowering, its remarkable and distinct color; very aptly described by its introducer as golden champagne with chamolse shadings, which color combination no doubt suggested its appropriate name. Each, 75c.

Eleanor Vanderveer (Decorative)—Rose pink, very large with excellent stem. A strong grower and free bloomer. Highly recommended for all purposes. Each, 75c.

El Granada (Cactus)—An extra large vivid orange bloom, and the petals twist and interlace, showing at the tips a creamy yellow reverse. A dahlia with splendid habits and perfect stems. Each, \$1.00.

Insullnde (Decorative)—The finest Dahlia of distinct form with petals twisted and curled. Stems are 2 to 3 feet long and flowers 9 to 10 inches across. Color, rich saffron-yellow, shaded russet-orange. Price, each, \$1.00.

Jersey's Beauty (Decorative)—The most distinctive new dahlia shown in the East and the finest pink dahlia in existence, a real rose-pink of excellent conformation and borne on a wonderful stem. Each, 75c.

Jessie Seal (Peony Type)—A unique color in the Dahlia family, clear old rose. A pleasing and popular shade, very large. Each, 75c.

Kittie Dunlap (Decorative)—Color is that of the American Beauty Rose. Stems long and strong, flowers large, petals broad with a slight tendency to roll. Each, \$1.00.

The "Kiwanian" (Peony Type)—Flowers are large and perfect in form, measuring 8 to 9 inches normally. Disbudded it will reach 11 to 12 inches. Among the very best of the peony type. Color, rich American Beauty red, shading to purple red. Height, 5 feet. Each, 75c.

Le Grande Lilas (Peony Flowered)—An immense royal purple twisted broad petals erect on strong stems often measuring 20 inches long Each, 50c.

"Kiwanian" Dahlia

Lewis, Jr. (Cactus Hybrid)—Large gorgeous velvet red, shading deeper to the center; outer petals curved and twisted, showing a violet blue on back. Perfectly formed, excellent bloomer. The stems are long and stout, making it a fine cut flower. A blue dahlia. Each, \$1.00.

Mariposa (Hybrid Cactus)—A delightful shade of true pink which is intensified by a deeper center; a faint violet suffusion adds to the effect. The veining of the petals brightens the beauty and increases the novelty of the coloring. Each, \$1.00.

Mrs. I. De Ver Warner (Decorative)—One of the finest dahlias ever introduced. A charming, deep mauve pink strong grower, producing its gigantic or cattleya (orchid) color. Extra blossoms freely and rigidly erect on long, cane-like stems. Each, 50c.

Ophir (Decorative)—One of the most beautiful dahlias yet introduced. Plants strong and sturdy, with many side branches. The flowers are of good size and of fine form, the petals are slightly relaxed giving a very pleasing appearance. In color a rich old gold, shading to amber. Each, 75c.

Pride of Fort Morgan (Decorative)—Every one buying a new dahlia this season should include this fine specimen. It is a giant intense red, 9 to 12 inches across. Each, \$1.00.

Ninfea (Hybrid Cactus)—An early and profuse bloomer. Color, a soft lavender pink, shading to creamy white in center, its broad upturned petals greatly resembling a water-lily, from which it derives its name. A wonderful exhibition flower. Each, 75c.

Radio (Decorative)—Without a doubt one of the greatest dahlias ever originated. Can be grown 11 to 12 inches in diameter. Color, blood red, edged and tipped with yellow. Must be seen to all appreciate its beauty. Each, \$1.00.

Rosa Nell A grand decorative that has proven its worth as the best for all purposes. The color is a pure bright rose, so rich, strong and rare, that in color it stands alone. Its keeping qualities the best. Each, 50c.

Tommy Atkins (Decorative)—Well, here we have the richest gold scarlet, a color that glistens in the sunshine, an exhibition flower that always attracts attention, a giant size. Each, \$1.00.

Discount Offer on P.-W.'s Special Merit Dahlias—5% discount from above prices on your selection of any six or more, and 10% discount on any twelve or more.

POMPON DAHLIAS

These miniatures are very attractive for cut flowers.
Amber Queen—Amber. Joe Fette—White.
Catherine—Bright yellow. Nelly Frazer—Blush
Deede—Lavender. Vivid—Bright red.
Any of above, each, 25c; dozen, \$2.50.

Amun-Ra Dahlia

Typical Cactus Dahlia

Cactus Dahlias

Bertram S. Varian—A very brilliant deep scarlet, incurved form, good size. Each, 50c.

Bride's Bouquet (Hybrid)—An ideal white profuse bloomer. Each, 50c.

Countess of Lonsdale—Color, an exquisite shade of salmon. Each, 25c.

Emily Russel—Color American Beauty red. Each, 25c.

Etandard De Lyon—Immense flowers. Color, rich carmine-rose. Each, 25c.

Golden West—Stems long and rigid. Color, deep golden yellow. Each, 50c.

Tustu—The color is gorgeous—a beautiful velvety maroon. Each, 50c.

P.-W.'s SURPRISE BOX OF 13 CHOICE DAHLIAS

In this charming collection we will supply a "Baker's Dozen" or 13 choice Dahlias. While they are unnamed there are no two alike. This collection is made up not from inferior sorts but those which we have in surplus, some of which are high priced. You will be agreeably surprised when these come into bloom. We are offering them at an unusually low price.

The Entire Collection of 13
All for \$2.00; Postpaid, \$2.25

Decorative Dahlias

Delice—its beautiful soft, yet lively color, a glowing rose pink. Each, 25c.

Eldorado—Immense golden-yellow blooms which stand up and look you in the face. Each, 50c.

Giant Ruby—Deep scarlet; an enormous flower with great depth. Extra good for exhibition. Each, 50c.

J. D. Long—Large flowers, a blending of autumn tints of salmon, pink, amber and bronze. Each, 50c.

Princess Juliana—Splendid pure white. Each, 25c; dozen, \$2.50.

La Grosse Bete—An enormous flower held straight upon strong stems and of a cerise self color. Each, 50c.

P.-W.'s Dahlia Collection No. 3—Your selection of one each of any of six of the above named Decorative Dahlias, \$2.25, postpaid.

Milonaire—Gold Medal Dahlia. Most delicate lavender with faint pink cast overshadowing it, the whole having a blend of white. Each, 50c.

Mina Burtle—Flowers extra large, clear, dark vivid red, produced on good stems. Each, 25c; dozen, \$2.50.

Mrs. Thos. Burch—Rich old gold, sometimes marked with pink, shading to fawn. Each, 25c.

Scottish Chief—Fine flower of a new and unusual shade of golden cocoa or amber coloring, sometimes tipped with white deepening into pink. Each, 50c; dozen, \$5.00.

Typical Decorative Dahlia

Type of Peony Flowered Dahlia

Peony Flowered Dahlias

Billionaire—One of the largest. Color is beautiful shade of old gold. Each, 50c.

Blue Bird—Exceptional color of deepest mauve or lilac which in certain lights has a bluish sheen. Each, 50c.

Chicota—A ideal golden yellow of large size, exceptionally long stems. Each, 50c.

Mme. Bystein—Very beautiful, pure lilac lavender; large size and lovely form; erect, on splendid stalk. Each, 50c.

La Glorietta—Yellow at the base, shading to a beautiful rosy pink shade; the flowers are enormous in size. Each, 50c.

P.-W.'s Dahlia Collection Offer No. 4—Your selection of one each of any six of the above Peony Flowered Dahlias for \$2.25, postpaid.

Nalad—Cream pink. Beautiful by day and simply grand under artificial light. Each, 25c.

The Oriole—A gorgeous combination of burnt orange, red and yellow with many of the flowers tipped white. Each, 50c.

Queen Esther—Beautiful deep red of enormous size, long, strong stems. Each, 50c.

Queen Wilhelmina—Fluffy, pure white. Each, 25c.

Romola Pizzani—Yellowish salmon, very large and free blooming. Each, 25c.

Sweetheart's Boquet—Unique shading of salmon-rose, shaded with fawn. Flowers large, stems extra long and wiry. Each, 50c.

Show and Fancy Dahlias

Dr. I. B. Perkins—Large, pure white, long stems, excellent. Each, 25c.

Golden Opportunity—Hybrid show. Rich buttercup yellow, shaded burnt orange. Each, 50c.

Geo. K. Gero—A rank healthy grower. Color clear, rich pink. Each, 50c.

Mrs. C. D. Anderson—Stems long and wiry. Flowers large and almost round. Color, rich clear purple. Early and very prolific bloomer. Each, 50c.

P.-W.'s Dahlia Offer No. 5—Your selection of one each of any six of the above named Show and Fancy Dahlias for \$1.50, postpaid.

Miss Helen Hollis—Undoubtedly the largest deep scarlet Show Dahlia in existence. Each, 25c.

Mrs. J. P. Smith—The highest ball show flower. Color, a rich red with cherry flush; great bloomer. Long, strong stems. Each, 50c.

Purple Gem—Rich royal purple, clear and constant. Each, 25c.

The Rose—Very large; color similar to the American Beauty rose. Each, 25c.

W. W. Rawson—Fine large flower, produced on long stems. Color, pure white, overlaid with delicate lavender. Each, 25c.

Typical Show and Fancy Dahlia

DOUBLE PEONIES

Peonies will do well in almost any garden soil. The roots should be placed so that the crowns are covered with two or three inches of soil. Too deep planting is a frequent cause of shy flowering. Prices include postage.

Albert Crousse—Bomb type. Late. Shell pink. Center slightly flecked crimson. Large compact and vigorous. \$1.00 each; \$10.00 per dozen.

Baroness Schroeder—Rose type; late. White with shadings of flesh. Very fragrant. \$1.25 each; \$12.50 doz.

Berlotz—Large, bright currant red shaded amaranth. 75c each; \$7.50 per dozen.

Duchesse de Nemours—Guard petals white, center lemon-yellow, cup-shaped. 65c each; \$6.50 per dozen.

Duchess d'Orleans (Midseason)—Dark carmine-pink and salmon; bomb type; fragrant. 50c each; \$5.00 per dozen.

Edulis Superba—This is the famous Decoration Day Peony. Color a beautiful clear pink, with silvery reflex. 50c each; \$5.00 per dozen.

Felix Crousse—Large, ball-shaped bloom; very brilliant red. One of the finest self-colored varieties. 90c each; \$9.00 per dozen.

Festiva Maxima—The finest white in cultivation. 55c each; \$5.50 per dozen.

Grover Cleveland—Rose Type. Late. Dark Crimson. Very large and full. Tall. One of the best red varieties. \$1.50 each.

Karl Rosenfield—Large, globular, compact, semi-rose type. Dark crimson. Midseason. Very fine. \$1.00 each; \$10.00 per dozen.

L'Eclatante—Bomb type, midseason. Flowers very double and full; color deep, brilliant velvety-crimson. 75c each; \$7.50 per dozen.

Madam Leoline Calot—Milky-white, flesh tinted flecked with crimson. Late midseason. 70c each; \$7.00 per doz.

Marie Jacquin—Midseason. Semi-rose type, known as the "Water-Lily Peony." Very interesting on account of its variable forms. Color is a most delicate flesh tint that gives way to lilac-white. Semi-double, blooms in profusion. \$1.25 each.

Mons. Jules Elle—Immense globular, very full flowers. Color glossy lilac-pink, shading to deeper rose at base, the entire flower overlaid with a sheen of silvery hue. Early midseason. \$1.00 each; \$10.50 per dozen.

Officinalis Rubra—Extra early large globular brilliant crimson. The very popular old time "Piney" first of all in Peonies to bloom in the Spring. 75c each; \$7.50 per dozen.

Officinalis Alba—Extra early large old-fashioned double white. 90c each; \$9.00 per dozen.

Officinalis Rosea—Extra early double rose pink. Each, 90c; \$9.00 per dozen.

Phlomele—Guards bright violet-rose. Center deep golden yellow, changing to amber-cream with small crown of bright rose, edged crimson. Midseason. Each, \$1.00; \$10.50 per dozen.

Rubra Superba—Magnificent rich brilliant crimson. Very large, full, and double. Highly fragrant. Decidedly the best late red Peony. 70c each; \$7.00 per dozen.

Unnamed Double Peonies—Separate colors, Red, White and Pink, at 50c each; \$5.00 per dozen.

New Japanese Peonies

Akaku (Japan)—Very large deep carmine flowers or uniform color. Clear even tone, fine form and immense in size. Huge center of saffron yellow petaloids. Fine grower and free bloomer. \$4.00 each.

Mikado—Japanese; dark, brilliant crimson petals, center cushion of golden yellow petaloids, crimson edged; long, wiry stems; an exquisite flower. \$3.50 each.

Fern Leaved Peony

Tenuifolium—A very interesting variety. Its delicate fringed, fern-like foliage always attracts. Color, deep red. Blooms very early. Price, each, \$1.90; \$2.00 dozen.

P.-W.'s "Big Six" Peony Collection

Here is a great acquainted selection of a half dozen best standard varieties as follows:

1 Festiva Maxima —White	1 Felix Crousse —Red
1 Duchess de Nemours —White and Yellow.	1 Edulis Superba —Pink
1 Officinalis Rubra —Red	1 Albert Crousse —Pink
- Regular value of above, \$4.55. Sale price, \$3.50, postpaid

Felix Crousse

Flag Iris (Germanica)

Avoid planting too deep, barely covering the rhizomes (creeping root stems) being sufficient. They are great drought resisters. "S" refers to standards. "F" to falls.

Elderado—"S" fiery opalescent. "F" purplish gold, 30c each; \$3.00 per dozen.

Fairy—"S" white, "F" fringed blue. 25c each; \$2.50 per dozen.

Florentina—"S" white, "F" veined, violet, 25c each; \$2.50 per dozen.

King of Iris—"S" clear lemon yellow, "F" rich maroon, bordered yellow. 25c each; \$2.50 dozen.

Lohengrin—Silvery mauve, both "S" and "F." 35c each; \$3.50 per dozen.

Lorely—"S" light yellow, "F" ultra-marine blue. 25c each; \$2.50 doz.

Opera—"S" bright rich pansy violet; "F" rich velvety violet-purple. Each 50c.

Palida Dalmatica—Both "S" and "F" clear lavender blue. 30c each; \$3.00 per dozen.

Ass't Colors—Orange, white, yellow, blue, lavender, pink, purple and mixed, 15c each; \$1.50 per dozen; \$10.00 per 100, postpaid.

Phlox (Hardy Perennial)

Phlox are a garden in themselves, succeed in almost any soil and position, and flower freely for many years.

B. Comte, rich French purple.

Beacon, bright cherry red.

Commander, New bright crimson dark eye.

Michael Buchner, pale lavender strong grower.

Mrs. Jenkins, pure white

Price, any of above, each, 35c; dozen, \$3.50.

Rheinlander, salmon pink claret eye.

Richard Wallace, white, changing to a pale blush with red eye.

Rosenberg, wine purple tall grower, very showy.

Ryndstrom, deep rose-pink.

Thor, lovely shade deep salmon pink.

Ask for fall catalog on Hyacinths, Tulips, Narcissus, Hardy Lillies, etc.

These are supplied by us in great variety for fall planting. The Dutch Bulbs come to us in car load lots direct from Holland's most critical growers. Quality considered, we are not undersold in America. Ask for Free Fall Bulb and Seed Catalog issued in August.

Hardy Perennial Plants and Seeds

Perennials planted once are always there; the flowers become better as plants grow older. It requires more time for the plants to come to flowering size when seed is planted. Sow the seed outside in early Spring or Summer and transplant when plants are large enough to place where you wish them to flower. To those desiring bloom the first season we offer plants which will give such results—see prices below.

Alyssum (R)

(Madwort)

***Saxatile Compactum (Basket of Gold)**—1 ft. May-June. Producing masses of golden flowers very early. May be planted effectively with Arabis. Seeds, pkt., 10c.

Argenteum—1 ft. Dwarf, dense grower, yellow flowers, in bloom all summer, leaves silvery underneath. Seeds, 10c per pkt.

Anchusa

***Italica, Dropmore Variety**—5 ft. June-July. Beautiful gentian blue, flowers, one of the best perennials. Thrives best in partial shade. Seeds, pkt., 15c.

Anemone

(Wind Flower)

St. Brigid's Strain—May-June. Double and single mixed. 12 in. A beautiful selection of the Coronaria varieties in a wonderful array of colors. Seeds, pkt., 20c.

(Aquilegia (Columbine))

Aquilegia

(Columbine)

Canadensis (Turk's Cap)—Handsome scarlet and orange flowers. Pkt., 10c.

P.-W.'s Long-spurred Hybrids Mixed—A wonderful mixture containing all the beautiful tints and tones and color combinations, hardly two being exactly alike. Pkt., 15c; ¼ oz., 50c.

Double Flowering—All colors, mixed. Pkt., 10c.

Agrostemma

***Coronaria Varieties Mixed**—Attractive free-flowering, producing bright colored flowers on long, slender stems like a single pink; blooms the first season; fine for cutting; 1 to 2 ft. June-September. Seeds, pkt., 10c.

Anthemis

(Marguerite)

***Kelwayi (Hardy Marguerite)**—2 ft. Daisy-like yellow blossoms, produced all summer. Excellent for cutting. Seeds, pkt., 10c.

Arabis (R)

(Rock Cress)

***Alpina**—6 in. Useful for spring bedding and rockeries; pure white flowers. Seeds, pkt., 10c.

Hardy Asters

(Michaelmas Daisy)—Very showy late summer and autumn flowering plants, blooming in a riot of color, usually until snow. For the best results, they require division and replanting every second year. All are about 3 to 5 ft. high.

Blue Gem—Semi-double deep rich blue.

Mrs. Raynor—The nearest red.

Lady Lloyd—Clear rose pink.

Climax—Lavender, very showy.

Plants, 35c each; \$3.50 per doz.

Dwarf Alpine Aster (R)

Alpinus—Indispensable for the rockery or edge of hardy borders, grows 6 to 10 inches high, showy bluish-purple flowers in May and June. Pkt., 25c.

Albus—Identical to the above, but with pure white flowers. Pkt., 25c.

Aubrietia (R)

(Wall Cress)

Excellent dwarf spreading plants for borders, beds, or rock gardens, blooms early in spring.

Bougainvillei—Height 6 inches. The color of the flowers is dark blue. Seeds, 25 per pkt. Plants, 35c each; \$3.50 per doz.

Astilbe

(Herbaceous Spirea)

Of strong vigorous growth, producing many branched feathered heads of flowers during June and July. They succeed best in a half-shady moist position in any ordinary garden soil. Offer as follows:

Grano—Salmon pink (4 ft.) 50c each.

Marguerite Van Rechteren—Red tinged lilac (4 ft.) 50c each.

Salland—New fine red (6 ft.) 50c each.

Canterbury Bells. (See page 79)

P.-W.'s PERENNIAL FLOWER PLANTS AND SEEDS—(Continued)

We furnish field-grown plants of the varieties marked (*) listed below. 25c each, \$2.50 per dozen; \$15.00 per 100. If by mail add 5c each; 30c per dozen, for postage and packing. Those marked (R) suitable for rock garden.

Bellis Perennis

(Double Daisy)

Improved giant double-flowering, white and pink. Seeds, pkt., 10c; Plants, \$1.00 per dozen.

Canterbury Bells

Calycanthema (Cup and Saucer)—Perennial—2 feet, June to August. White, pink, blue, mixed colors. Each of the above, pkt., 10c.

Campanula Medium (Canterbury Bell)—2 feet. Double mixed, Pkt., 10c. Single mixed, pkt., 10c.

Campanula Pyramidalis (Chimney Bellflower)—Mixed. 5-6 feet. Pkt., 10c.

Carpatica (Carpathian Harebell) (R) Compact tufts, not exceeding 8 inches high; blooming from June until October. For a hardy border or rockery unsurpassed. Seed, White or Blue, Pkt., 15c.

Centaurea

(Hardheads)

Good plants for the flower border or wild garden, with thistle-like flowers. Blossom in July-August.

Macrocephala—Golden yellow. 2½-3 ft. July-August. Seeds, pkt., 10c.

Montana Blue (Hardy Corn Flower)—2 ft. June-September. Beautiful blue. Seeds, pkt., 10c.

Chrysanthemum

***Old-Fashioned Types**—Double Aster-like flowers. Colors, Red Bronze, White, Pink and Yellow. (Plants only).

***Pom-Pom**—Miniature types, White, Pink, Bronze, Yellow, Red, (Plants only).

***Japanese Types**—These are the harder early flowering selections from those mammoth indoor or Greenhouse types. Yellow, Pink, Lavender and White. (Plants only).

Coreopsis

***Lanceolata Grandiflora**—2 feet. Large, orange-yellow flowers on long graceful stems. About the best yellow cutflowers blooming incessantly. Pkt., 10c.

Semi Double Grandiflora—The beautiful semi double flowers are considered by many, more attractive than the single type; otherwise the same as "Lanceolata." Pkt., 15c.

Carnation

After a few years' trial, we have proved these to be quite hardy with ordinary protection. Large double flowers, in bloom all summer.

Grenadin, Mixed—Seeds, pkt., 15c.

***Double Mixed, Extra Choice**—Seeds, pkt., 15c.

Cerastium

***Tomentosum** (Snow in Summer)—4 in. Silvery white foliage, covered with snow-white flowers in early summer. Seeds, pkt., 15c.

Delphinium

(Hardy Larkspur)

Few plants are so handsome as the perennial Larkspurs. The most important are the tall hybrids, varying from 1 to 6 feet, and from the palest lavender through every conceivable shade of blue to deep indigo.

***Belladonna** (Light Blue)—3 feet; flowers exquisite shade of turquoise blue. Pkt., 20c; 1-16 oz., 45c.

***Bellamosum**—This is a dark blue of the Belladonna type with which it is identical in habit and growth, freedom of bloom. Pkt., 20c.

Chinese (Chinese Delphinium)—Fine feathery foliage; profuse white or blue flowers from June until September. Excellent for beds, borders and cutting. Either White or Blue. Seed, pkt., 10c; 1-16 oz., 30c.

Gold Medal Hybrids—Height 6 feet Unquestionably one of the finest strain of mixed hybrids offered. Large flowers on spikes two feet and over, the majority running in the lighter shades of blue. Mixed colors. Pkt., 25c.

P.-W.'s Wrexham Hybrids

A wonderful type of Hardy Larkspur often referred to as the Hollyhock Strain because the stately spikes with their large, single, semidouble, and double blooms appear not unlike a spike of Hollyhock. Includes many colors. Pkt., 50c; 1-16 oz., \$1.00. Plants, 35c each; \$3.50 per doz.

Dianthus

(Hardy Pinks)

Deltoides (R) (Maiden Pink)—8 in. Delicate pink blossom carried above fine, feathery foliage. Seeds, 25c per pkt.

Plumaris (R)—These very desirable sweet-scented, low-growing, early blooming and free flowering Hardy Garden Pinks are unequaled for the borders.

***Single Mixed**—Delicately fringed flowers. Pkt., 10c.

***Double Mixed**—Fine for cutting. Pkt., 10c.

Dicentra

(Bleeding Heart)

Spectabilis—Its long racemes of graceful heart-shaped pink flowers are always attractive. Is perfectly at home in any part of the hardy border and especially valuable for planting in the shade. Strong roots. Each, 60c; doz., \$6.00.

Exima (R)—Plumy Bleeding Heart. Dwarf, 12 inches. Racemes of pendant pink flowers borne above fine cut feathery foliage. Plants, each, 40c; doz., \$4.00.

Doronicum

Plantaginum Excelsum—Large bright yellow flowers and one of the most effective very early spring flower. It is also a splendid flower for cutting, as it carries well and stands a long time; succeeds everywhere. Plants, 40c each; \$4.00 per dozen; 10 seeds, 50c.

Digitalis

(Foxglove)

These produce spires of blossoms, three to five feet high in June and July.

Gloxiniaeflora—Flowers shaped and spotted like a gloxinia. Pink, Purple. Each color, pkt., 10c.

***Gloxiniaeflora, Mixed Colors**—Pkt., 10c.

P.-W.'s Wrexham Hybrid
Delphinium

Eryngium

(Sea Holly)

Plants grow 2 to 3 feet high. Flowers to September; useful to cut, or dry for winter bouquets.

Amethystinum—The finely-cut spiny foliage, beautiful thistle-like heads of glistening amethystine-blue. Pkt., 10c.

Edelweiss (R)

Leontopodium Alpinum—4-12 in. June-July. The flowers are of downy texture, pure silver-white and star-shaped. Succeeds in almost any soil with full exposure to sun. Seeds, 25c per pkt.

Euphorbia

***Polychroma**—1 ft. April-May. Leaves oblong and dark green, floral leaves different shades of yellow at flowering time. Grows into fine compact bush. Little known but very desirable. Seeds, pkt., 10c.

Ferns (R)

(Hardy)

Hardy Ferns are especially suited to partial and dense shade and will flourish where grass will not grow. (Ready March 15).

Hardy Maidenhair Fern—1 ft. The best dwarf fern. Plants, 40c each.

Hardy Lady Fern—2 to 3 ft. Fine delicate fronds, will grow in sun if soil is kept moist. Plants, 40c each.

Hardy Ostrich Fern—3 to 4 ft. Stately, handsome dark green fronds. Plants, 40c each.

Feverfew (R)

(Matricaria)

Little Gem—A most useful border plant and valuable summer cut flower. With large double white flowers; June until October; 18 to 24 inches high. Pkt., 10c.

Funkia

(Plantain Lily)

***Lanceolata**—Valuable by reason of its late flowering, lily flowers in September, 2 feet.

Coreopsis New Semi Double

P.-W.'s PERENNIAL FLOWER PLANTS AND SEEDS—(Continued)

We furnish plants of all the varieties listed below marked * at 25c each; \$2.50 per dozen; \$15.00 per 100. If by mail add 5c each; 30c per dozen for postage and packing. Varieties marked (R) Rock Garden.

Gypsophila Flore Pleno

Gaillardia

Flowers in June, and continues the entire season. Height, 18-24 inches.

***Grandiflora Mixed**—Composite flowers, variegated with shades of red and yellow. Pkt., 10c.

***New Hybrids**—Very large flowers. In a great variety of colors. Pkt., 25c.

Geranium

***Sanguineum**—A desirable plant; with pretty cut foliage and bright crimson flowers; blooms the entire season; 18 inches.

Geum

***Atrococcineum fl. pl.**—Pretty border plants, growing about 15 to 18 inches high, and producing from May to July brilliant scarlet double flowers. Pkt., 15c.

Grasses

(Hardy Ornamental)

Gyerium Argenteum (Pampas Grass)—White silvery plumes; blooms the second season; 5 feet. Pkt., 10c.

Eulalia Zebrina (Zebra Grass)—Light green, barred with creamy white across foliage; 6 feet. Pkt., 10c.

Variegata—Long, narrow, green leaves, striped with white; fine feathery plumes; 6 feet. Pkt., 10c.

Pennisetum Japonicum—one of the most valuable for beds or specimens. Easily grown from seed, making nice plants the first year; 4 feet. Pkt., 10c.

Gypsophila

Paniculata Flore Pleno—Improvement on the single-flowered type and more lasting, the flowers forming miniature balls of white petals. 2-3 ft. July-August. Not quite fixed, but about 25 per cent come true. Seeds, pkt., 25c.

Hibiscus (Mallow)

***Paniculata** (Baby's Breath)—2-3 ft. July-August. Small flowers on branched stems, so thick as to give the plant a white lacelike effect. Seeds, pkt., 10c.

Repens (R)—Dwarf white Baby's Breath. Splendid in rockery. Seeds, 15c per pkt.

Hesperis

(Sweet Rocket)

Matronalis—Deliciously sweet scented flowers for garden or cutting. 2-3 ft. June-August. Sow in Spring in boxes and transplant in April or May—or sow in open ground in April for later bloom. White or Purple—Pkt., 10c; ½ oz., 35c.

Helenium

(Sneezewort)

Delightful perennials allied to the Helianthus (Sunflower). Splendid and lasting as cut flowers.

***Riverton Gem**—Covered from August to October with brilliant old gold and splashes of darker shades, changing later to wall-flower red. 3 ½ feet. Pkt., 15c.

Helianthus

(Hardy Sunflower)

Hardy, perennial Sunflowers flourish splendidly in any garden, city or country.

Maximiliani—Small and graceful flowers of deep yellow on stems 2 to 4 feet long, blooming from August to October. Pkt., 25c.

Perennial Varieties, Mixed—Pkt., 15c.

Hemerocallis

***Flava** (Yellow Day Lily)—The best known variety; very fragrant, deep lemon-yellow flowers in June and July; height, 2 ½ to 3 feet.

Hibiscus

(Rose Mallow)

Shrub-like plants with handsome green foliage, bearing throughout summer large bright flowers, from 3 to 5 inches in diameter. August-September. Very hardy. Suitable for garden and indoor use when cut 3 to 5 feet high.

***Mixed Mallow Marvels**—Grand assortment. Seeds, pkt., 10c.

Hollyhock

One of the best hardy garden flowers. Makes a charming hedge or background. 6 to 8 ft. August-September.

Double Varieties—White, Maroon, Rose, Black, Salmon, Yellow, Crimson, Blood-Red. Each color, pkt., 10c.

***Double Mixture**—Finest shades in perfect flowers. Pkt., 10c.

***Single Varieties**—Red, Pink, Black, Flesh, Rose, White, Salmon. Mixed, each, pkt., 10c.

Iberis

(Perennial Candytuft)

Dwarf evergreen plants, 6 to 10 in., covered with blooms in spring and early summer. Excellent for rockeries or borders where bright dwarf masses are wanted.

***Gibraltarica** (R)—Pinkish white. Seeds, 10c per pkt.

***Sempervirens** (R)—Flowers from a sheet of whiteness. Seeds, 15c per pkt.

Incarvillea

Delavayi (Hardy Gloxiania)—2 ft. June. Splendid gloxiania flower borne in large bright rose umbels. Likes a sunny situation. Seeds, pkt., 25c.

Heuchera

(Alum Root)

Sanguinea—2 ft. July-August. Long stems of large crimson-scarlet flowers. Splendid for cutting. Seeds, pkt., 25c.

Double Hollyhock

Lathyrus Latifolius

(Everlasting Pea)

Very decorative climbing vines. Bloom all summer, 6 feet.

Pink Beauty—Pale pink variety. Seeds, pkt., 10c.

Rubra—Bright rosy crimson. Seeds, pkt., 10c.

White Pearl—Large-flowering white. Seeds, pkt., 15c.

***Mixed**—The above colors. Seeds, pkt., 10c.

Lavandula

(Lavender)

***Vera**—This is the true Sweet Lavender; grows about 18 inches high, delightfully fragrant blue flowers in July and August. Seeds, pkt., 10c.

Liatris

(Blazing Star)

***Pycnostachya**—Showy and attractive native plants, succeeding anywhere, producing large spikes of light rosy-purple flowers in July and August; 5 feet. Seeds, pkt., 10c.

Lobelia

Handsome plants, thriving in any ordinary garden soil, but preferring a moist, deep loam. Season Aug. till late September.

Cardinalis (Cardinal Flower)—2 ft. July-October. Tufts of bronzy green foliage from which arise spikes of brilliant fiery scarlet flowers. Seeds, 15c per pkt.

PLANTS—Any of above varieties marked (*) 25c per clump, \$2.50 per dozen; \$15.00 per 100. If by mail add 5c per dozen for packing and postage. Varieties marked (R) are specially adapted for rock gardens.

P.-W.'s Perennial Flower Plants and Seeds (Continued)

We furnish plants of the varieties marked * listed below. Prices, except where otherwise noted—Field-Grown Plants: 25c each; \$2.50 per dozen; \$15.00 per 100. If by mail add 5c each; 30c per dozen, for postage and packing.

Lunaria (Honesty)—(See page 89)

Lupinus

(Lupine)

Effective plants, producing large spikes of flowers; blooming in May and June. They require only well-prepared garden soil, preferably in a semi-shady location. 3 feet.

***Polyphyllus**—Clear blue. Pkt., 10c.

Lychnis Campion

***Chalcedonica** (Jerusalem Cross)—

A most desirable plant, heads of brilliant orange-scarlet in June and July; grows 2 to 3 feet high. Pkt., 10c.

Myosotis

(Forget-Me-Not)

***Palustris** **Semperflorens**—Dwarf blue, in flower from early spring until autumn. Seeds, pkt., 20c.

Papaver

(Poppy)

***Nudicaule** (Iceland Poppies)—15 inch. Mixed. Elegant free flowering plants bearing flowers in abundance all summer. Pkt., 10c.

Nudicaule yellow, orange, white. Each color, pkt., 10c.

***Oriental Red**—For gorgeous coloring the Oriental Poppies have few rivals among hardy plants. 3 feet. Pkt., 10c.

Oriental Hybrids, Mixed—Pkt., 10c.

Pentstemon

(Beard Tongue)

The Pentstemons bloom persistently through the summer, and are found very useful for cut-flowers or for color masses in the garden. Easily grown in any garden soil.

***Large Flowering Newest Hybrids**—Splendid assortment of colors. Seeds, pkt., 15c.

Linaria (R)

***Cymbalaria** (Kenilworth Ivy, or Mother of Thousands)—Lavender and purple. Hardy trailing plant, suitable for baskets, vases, pots and rock work. Seeds, pkt., 10c.

***Dalmatica**—Large, bright yellow flowers, borne at the tops of the branches in a long, loose spike; 3 to 4 ft. June-September.

Linum

(Flax)

***Perenne**—A desirable plant for the border or rockery, growing 1½ feet high, with light graceful foliage and large blue flowers all summer. Pkt., 10c.

Linaria Dalmatica

Nepeta (R)

(Ground Ivy)

Mussini—Neat bushes of small lavender-like foliage covered with terminal spikes of lavender-blue flowers, both foliage and flowers aromatic. For beds, edging or Rock Garden. May-September. Seeds, pkt., 25c.

Physalis

***Franchetti** (Chinese Lantern Plant)—1½ ft. Flowers yellow with dark center. Produces balloon like husks, which turn bright red when ripe and resemble Chinese lanterns. Seeds, pkt., 10c.

Physostegia

(False Dragon Head)

Fine for a cool situation and rich, light soil, bearing erect spikes of pretty tubular flowers. Useful for borders, wild gardens and for cutting.
***Virginiana**—Dense bushes with spikes of delicate pink tubular flowers. 3 ft. June-September. Seeds, pkt., 10c.

"Thor" Phlox—(See page 79).

Phlox

(Hardy)

Decussata—2-3 ft. June-October Perennial varieties mixed from a celebrated collection. Seed slow in germination and may not sprout in a year. Seeds, pkt., 15c.

Plants—(See page 77.)

*Phlox Subulata (R)

(Moss or Mountain Pink)

An early spring flowering type with pretty mosslike, evergreen foliage, which, during the flowering season, in April and May, is hidden under the masses of bloom. An excellent plant for the rockery, the border and invaluable for carpeting the ground or covering graves. We supply three colors—White, pink and purple.

Platycodon

Chinese Bell Flower or Baloon Flower—Very handsome border plants of the Campanula family, the flowers in bud having the appearance of inflated balloons, they flower from June to September.

***Grandiflorum**—1-2 ft. Large handsome deep blue flowers. Seeds, pkt., 10c.

Platycodon Grandiflorum

Polemonium

(Jacob's Ladder)

Coeruleum (Greek Valerian)—Two feet. Beautiful sky-blue spikes. Pkt., 10c.

Grandiflorum Album—Pure white. Pkt., 10c; ¼ oz., 25c.

Reptans (R)—8 to 10 inches. April to June. Dwarf, bushy plant of graceful growth. Showy blue flowers. Pkt., 15c.

Primula (R)

(Primrose)

These are among our most delightful spring flowers. Good for shady spots and Rock Gardens.

***Auricula**—6 inch. Flowers in early spring in colors of yellow, brown and red. Pkt., 10c.

***Veris** (Elatior) (Grandiflora)—The pale yellow Oxlip, bearing flowers in umbels. An extra choice, large flowered mixture strain. Pkt., 20c.

Pyrethrum

(Painted Daisy)

One of the most valuable of our early summer flowers. Charming color, and wonderful lasting properties as a cut flower; flowers in May and June, and frequently in August and September; in all shades of rose and pink.

***Roseum, Double Mixed**—Extra choice, selected seed. Only a small percentage will be double, balance will be semi-double and single in fine variety. Pkt., 25c.

***Roseum Hybridum Grandiflorum. Single Mixed**—Pkt., 15c.

Rudbeckia

(Cone Flower)

The Rudbeckias are very decorative plants for shrubberies, flower borders or side of auto drives, thrives in any good garden soil.

***Hirta** (Black-Eyed Susan)—2-3 ft. Rich golden-yellow with central black disc. Seeds, pkt., 15c.

***Laciniata fl. pl.** (Golden Glow)—July-October. Yellow. 5 to 7 feet. 1 pkt. of 20 seeds, 25c.

Purpurea Grandiflora—3 ft. September; large handsome crimson-crimson-purple flowers with dark central disc. Pkt., 10c.

We furnish plants of the above varieties marked * except where otherwise noted field grown, 25c each; \$2.50 per dozen; \$15.00 per 100. If by mail add 5c each; 30c per dozen for postage and packing. Varieties marked (R) are adaptable to Rock Gardens.

P.-W.'s PERENNIAL FLOWER PLANTS AND SEEDS—(Continued)

We furnish plants of the varieties marked * listed below. Prices, except where otherwise noted—Field-Grown Plants: 25c each; \$2.50 per dozen; \$15.00 per 100. If by mail add 5c each; 30c per dozen, for postage and packing.

Sweet William

Salvia

***Pitcher (Meadow Sage)**—Makes a grand showing in the fall and is without a doubt one of the best of all Autumn blue flowers. August and September. 4 feet. Pkt., 10c.

Saponaria

(Bouncing Bet) (R)

Ocymoides—Very showy hardy rock plant, producing during the summer months masses of small, bright rose flowers; 9 inches. Pkt., 10c.

Sedum (R)

Fine plants for rock-gardens, ruins, banks and walls, preferring open, loamy soil and stones. They are especially suited to sunny locations.

Acre (Golden Moss)—May-June. Yellow. 3 in. Pkt., 25c; plants, 35c each.

Brilliant—June-July. Scarlet, 12 in. Pkt. 25c; plants, 35c each.

Stolonifera—Flat succulent leaves; flowers purplish-pink; July and August; 6 inches. Pkt., 25c; plants, 35c each.

Santolina

(Lavender Cotton) (R)

A sweet smelling, dwarf, evergreen with delicate, silver-white foliage, useful as rock or border plants. One foot.

Scabiosa

(Pin Cushion)

***Caucasia Perfecta**—Light blue flowers on long stem; fine for cutting. 18 in. June-October. Seeds, pkt. 10c.

Shasta Daisy

***Alaska**—2 ft. Wonderful show of large white flowers. Fine for cutting. Blooms all summer. Pkt., 10c.

Statice

(Sea Lavender)

Large spreading panicles of light graceful flowers, much prized for winter decoration; dried.

***Latifolia**—2 ft. Dense branching plumes of deep blue flowers. Pkt., 10c.

Sweet William

(Dianthus Barbatius)

Johnson's Giants—The range of color includes shades which are not to be found in other strains, and the peculiar and delicate markings on the flowers are most attractive. Pkt., 15c.

***Single Giant-Flowered Mixed**—Pkt., 10c.

***Double Giant-Flowered Mixed**—Pkt., 15c.

Separate Colors—Single pink and red. Pkt., 10c.

Stokesia

(Stokes Aster)

***Cyanea**—18 inches July-October. Flowers rich blue, like a giant cornflower, very distinct. Seeds, pkt., 10c.

Thalictrum

(Meadow Rue)

Aquilegifolium—Graceful foliage like that of Columbine, and rosy purple flowers from June to July. 2 to 3 feet.

Tritoma

(Torch Lily, Flame Flower,

Red-Hot Poker)

Grandis (Pfitzeri)—Orange-scarlet 3 ft. August-September. Seeds, pkt., 15c. Plants, each, 35c; doz., \$3.50; 100, \$20.00.

Tunica

(Coat Flower) (R)

Saxifraga—A pretty tufted plant with light pink flowers, produced all Summer. Useful either for the rockery or the border. Pkt., 10c.

Tritoma (Torch Lily)

Valeriana

(Valerian; Garden Heliotrope)

Coccinea—Showy heads of old rose flowers. June to October. 2 feet. Pkt., 10c.

Sidalcea

Rose Queen—Erect branching plants 2 to 3 feet, producing during June and July pretty, mallow-like flowers, about an inch in diameter. Bright rose color.

Silene

(Catchfly) (R)

Schaffa (Autumn Catchfly)—A charming border or rock plant from 4 to 6 inches high, with bright pink flowers from July to October.

Veronica

(Speedwell)

***Longifolia Subsessilis (Japanese Speedwell)**—The showiest and best of the Speedwells; from a bushy plant 2 to 3 feet high with long dense spikes of deep blue flowers from the middle of July to early in September. Pkt., 15c.

Vinca (R)

Valuable for rockeries or makes a grand evergreen carpet under and about shrubs and trees.

Minor (Grave Myrtle)—4 in. June. Green foliage, large blue flowers. Plants, 20c each; Doz., \$2.00; 100 \$12.00. Seeds, pkt., 10c.

Viola

(Violet) (R)

Single—Deep blue, single violet seeds, pkt., 10c. Plants, 20c each; \$2.00 doz.; \$12.00 per 100

Yucca

(Adam's Needle)

Filamentosa—5-6 ft or more, June-July. Handsome creamy white flowers, much branched and densely packed with bloom, with sword-like foliage. Seeds, pkt., 10c.

1-year Plants, 25c each; \$2.50 doz.

2-year Plants, 50c each; \$5.00 doz.

Rupestis—A fine rock plant 3 to 4 inches high; thickly matted deep green foliage, a cloud of bright blue flowers; May. Pkt., 15c.

Rupestis Nana (R)—Prostrate and creeping, forming a dark green carpet of shiny foliage which is covered with deep blue flowers in late April and early May; 1 inch high; one of the best early blue rock plants known. Pkt., 15c.

P.-W.'s Surprise Collection of Perennial Plants

No. 35—A truly fascinating collection of carefully selected hardy plants all labeled. We include such well known favorites as Delphinium, Phlox, Aquilegia, Pyrethrum, and choice specimens of any good varieties in which we grow in large quantities. At least 15 different varieties in each "Surprise" collection. Our selection of varieties and all properly labeled, including 25 choice plants, all for \$4.00 prepaid.

Yucca (Adams Needle)

PLANTS—Any of above varieties marked * 25c per clump; \$2.50 per dozen; \$15.00 per 100. If by mail add 5c each or 30c per dozen for packing and postage. Varieties especially adaptable for Rock Gardens are marked (R) immediately after the name.

P.-W.'s ANNUAL FLOWER SEEDS

All the Best Flowers for 1931

The term "Annual" is applied to those flowers which bloom from seed the first season and last but the one year. For perennial flowers see pages 78-83.

Cultural leaflets on Annuals will be sent free on request. Ask for them when ordering.

All our Flower Seeds are delivered anywhere in the United States. Our packets contain a liberal quantity of seed.

AIDS IN SELECTING ANNUAL FLOWER SEEDS FOR SPECIAL PURPOSES

BACKGROUNDS AND BORDERS		CUTTING		BEDS AND MASSING	
Large Showy Annuals					
Arctotis Grandis	Marigold (Tall)	Acroclinum	Mignonette	Alyssum	Esch-scholtzia
Amaranthus	Poppy (Tall)	Antirrhinum	Nasturtium	Ageratum	Gaillardia
Celosia Plumosa	Ricinus	Aster	Pansy	Antirrhinum	Lobelia Comp.
Clarkia	Salvia	Calendula	Phlox	Aster	Marigold
Cosmos	Sunflower	Calliopsis	Poppy	Balsam	Nasturtium, Dw'r
Larkspur	Zinnia	Carnation	Salpiglossis	Celendula	Pansy
			Scabiosa	Calliopsis	Petunia
		Chrysanthemum	Salpiglossis	Candytuft	Phlox Drum
		Cosmos	Stocks	Carnation	Poppy
Alyssum (Hardy)	Godetia	Dahlia	Sweet Peas	Celosia	Portulaca
Agapanthus	Dianthus	Dianthus	Sweet Sultan	Chrysanthemum	Salvia Splen
Candytuft	Myosotis	Esch-scholtzia	Verbena	Convolvulus	Stocks
(Hardy)	Pansy	Larkspur	Wallflower	Minor	Verbena
Carnation	Pinks	Marigold	Zinia	Dahlia	Zinnia
		Matricaria		Dianthus	
EDGING WALKS, ETC.		PLANTS SUITABLE FOR POTS		PARTLY SHADY PLACES	
Ageratum	Marigold, Dwarf	that may be grown from seeds		Antirrhinum	Schizanthus
Alyssum	Myosotis	Ageratum	Cyclamen	Begonia, Tuber	Pansy
Asters, Dwarf	Phlox, Dwarf	Antirrhinum	Heliotrope	Lace Flower	
Candytuft	Pinks, Chinese	(Dwarf)	Mignonette		
Dusty Miller	Nasturtium Dwarf	Asters (Dwarf)	Nasturtium	DROOPING PLANTS FOR VASES,	
(Centaurea)	Zinnia, Dwarf	Begonias	(Dwarf)	HANGING BASKETS, VER-	
Lobelia Comp.		Carnation	Petunia	ANDA, BOXES, ETC.	
		Cineraria	Primroses	Alyssum	Nasturtium
		Coleus	Stocks	Lobelia	Smilax
				Petunia	Browallia
FOLIAGE					
Amaranthus	Kochia				
Canna	Marvel of Peru				
Coleus	Ricinus				

BORDER OF ANNUAL FLOWERS

Arranged for continuous bloom throughout the summer and autumn months, these will not only be a feature in the garden, but will also furnish an abundance of cut-flowers for the house.

BORDER No. 2. An attraction in the garden and a place where you will not be disappointed when you want flowers for outting.

1. Giant, Zinnias, Orange	9. Chrysanthemum, Mixed	18. Lupins, Assorted Annuals
2. Cosmos, Giant Early White	10. Salpiglossis, Mixed	19. Aster, King Violet
3. Larkspur, Giant Hyacinth-fl. Lilac	11. Calliopsis, Golden Wave	20. Phlox Drummond, Brilliant
4. Helianthus cucumerifolius	12. Giant Zinnia, Salmon-Pink	21. Petunia, Violaacea
5. Larkspur, Giant Hyacinth-fl., Blue	13. Aster, Pink Crego	22. French Marigold, Gold-striped
6. Cosmos, Giant Early Pink	14. Gaillardia, Giant Double Mixed	23. Dianthus lacinatus splendens
7. Helichrysium, Assorted	15. Cornflower, Double Blue	24. Candytuft, Giant Hyacinth-fl.
8. Scabiosa, Azure Fairy	16. Calendula, Lemon Queen	25. Verbenas, Mammoth Mixed
	17. Zinnia, Dwarf Pumila Dble Old Rose	

25 Packets, one each of above Choice Annuals (Regular Value \$2.50) for \$2.00, postpaid.

ASTERS

During the late summer and early fall the garden is usually a riot of reds and yellows, so the Asters in their dainty and distinct colors as well as their many attractive forms are a pleasing addition. The long stems make them desirable for cut flowers and the blooms last long in water. It should be remembered, however, in regard to Asters that good culture is essential in order to obtain an abundance of fine flowers.

New California Giant

Tall Section

16 inches and up

New California Giant Branch-

ing Asters A splendid new mid-season to late flowering strain, the result of years of pains-taking selecting by one of California's leading hybridizers; plants grow 3 to 3½ feet high with long, strong stems 18 to 24 inches in length bearing beautifully formed curled and interlaced flowers 5 inches and over across. We offer the following colors:

Lavender Blue, Peach Blossom, Pure White, Purple Violet, Rich Rose. Finest Mixed.

Any of the above—Pkt., 15c; ¼ oz., 75c.

American Beauty Similar in type of flower and growth to the Giant Branching Asters, but blossoms are produced on much longer and heavier stems. The flowers are fully double.

White, Carmine-Rose, Purple, Lavender, September Beauty, Rose Pink.

Each of the above, pkt., 15c; any 3 pkts., for 35c; ¼ oz., 75c.

Mixed all colors—Pkt., 15c.

American Beauty

Giant Crego The flowers measure four to five inches in diameter, and are borne on stems twelve inches or more in length. Their lasting qualities when cut are unsurpassed.

White, Shell Pink, Rose Pink, Crimson, Lavender, Dark Blue, Purple.

Each of the above, pkt., 10c; any 3 pkts. for 25c; ¼ oz., 60c.

Mixed all colors—Pkt., 10c.

P.-W.'s Giant Branching Beautiful cut flowers. The branching habit is accompanied with great vigor of growth and profusion of bloom.

White, Peachblossom, Flesh Pink, Rose Pink, Crimson, Blue, Lavender, Dark Violet, Purple.

Each of the above, pkt., 10c; any 3 pkts. for 25c; ¼ oz., 50c.

Mixed, all colors—Pkt., 10c; ¼ oz., 50c.

Ostrich Feather The finest type of the Giant Comet, or Ostrich Feather type of Aster.

White, Soft Pink, Lavender, Rose, Crimson, Silvery Lilac, Light Blue, Dark Blue.

Each of the above, pkt., 10c; any 3 pkts. for 25c; ¼ oz., 50c.

Mixed, all colors—Packet, 10c.

King Aster

The King The habit is similar to the popular Giant Branching. In form the flower is entirely distinct; petals somewhat resembling the quilled varieties, but are much larger and broader.

Mixed, all colors—Pkt., 10c; ¼ oz., 50c.

Queen of the Market—The best early aster, usually in full bloom two weeks before most other sorts begin to blossom.

Mixed, all colors—Pkt., 10c; ¼ oz., 50c.

Asters, Dwarf Mixture—This is a mixture of many varieties of dwarf sorts and where a large mixed bed of Asters is desired this will answer the purpose nicely. ¼ oz., 25c; pkt., 10c.

American Asterum An attractive and descriptive name for a new race of asters which belong to the Comet family.

Mixed, all colors—Pkt., 10c; ¼ oz., 60c.

Giant Crego

Sunshine Asters—This pretty anemone-flowered variety is of great value either in beds, borders or for cutting; plants grow about 18 inches high, the dainty flowers held erect on good stems. The mixture offered contains a splendid range of delicate colors. 15c per pkt; ¼ oz., 50c.

Acroclnium

Roseum—2 feet. A pretty Everlasting, bearing daisy-like flowers, pretty bright rose with yellow center, which can be dried. Pkt., 10c; ¼ oz., 30c.

Double Mixed—¼ oz., 30c; pkt., 10c.

Single Mixed—¼ oz., 25c; pkt., 10c.

Agapanthus

Umbellatus—1 foot. Bright blue flowers, produced in clusters on long stems. Water freely. Pkt., 15c.

Alyssum

Benthami Maritimum (Sweet Alyssum)—This is one of the finest annuals for edging and is beloved on account of its modest blossoms. Flowers white and honey scented. It begins to bloom early in the season, and continues until frost. Oz., 25c; ¼ oz., 15c; pkt., 10c.

Little Gem—The plants are only a few inches high, and are completely covered with snowy-white blossoms. ½ oz., 40c; ¼ oz., 25c; pkt., 10c.

Compactum Lilacinum—Distinct variety with delicate lavender flowers. Pkt., 10c; ¼ oz., 25c.

Sunshine Asters

Ageratum

One of the best summer blooming plants grown from seed, providing rare shades of blue.

Mexican Coeruleum — 18-inch. Beautiful soft lavender-blue, of free branching habit. Pkt., 10c; ¼ oz., 25c.

Album—White. Pkt., 10c; ¼ oz., 25c.

Nanum, Blue Perfection—9 inch. The darkest Ageratum grown from seed. Pkt., 10c; ¼ oz., 35c.

Little Blue Star — 4 to 5 inches. Miniature bushes covered with clusters of flowers opening light blue with purple center and developing to a bright blue self. Pkt., 15c; ½ oz., 50c.

Ammobium

Alatum Grandiflorum—2½ feet. A white Everlasting. Pkt., 10c; ¼ oz., 25c.

Amaranthus

Brilliant foliaged, three feet high. Useful in borders or for the center of large beds. They thrive in a hot, sunny location.

Tri-Color (Joseph's Coat). — Pkt., 5c; ¼ oz., 20c.

Anchusa

Capensis (Summer Forget-me-not) —2 feet. A hardy annual which grows two feet high, branching freely and bearing a profusion of lovely flowers similar to the Forget-me-not, though much larger and of finer color. Pkt., 10c; ¼ oz., 25c.

Arctotis Grandis

(African Daisy)
A handsome annual which forms branched bushes 2 to 3 feet high; its flowers are large, pure, white on the upper surface, the reverse of petals pale lilac-blue. Pkt., 10c; ¼ oz., 25c.

Ageratum

ANTIRRHINUM

(Snapdragon)

For gorgeous coloring few flowers can match Snapdragons; easily raised from seed in any rich, sunny bed.

New Tall Maximum

36 to 48 inches.

The newest creation in Giant Snapdragons, and in a marked advance over the older Tall Large Flowered type in size and brilliancy of color. The flowers are closely placed on the stems, each bloom measuring 2 to 3 inches.

Apple Blossom—Delicate pink.
Copper King—Velvety copper-scarlet.

Defiance—Brilliant scarlet.
Fairy Queen—Terra cotta.
Old Gold—Deep golden-yellow.
Purple King—Rich purple.
The Rose—Rose pink.
Wallflower—Burnt orange and copper-red shades.

Snowflake—Pure snow-white.
Each of above, pkt., 15c; ¼ oz., 35c.

Giant, Flowered—Mixed. All the above and others. Pkt., 15c; ¼ oz., 30c.

Semi-Dwarf Varieties

This class of plants grows about 18-20 inches high and are splendid for mass effects in the garden. The stems, while not as long as those of the tall growing sorts, are very desirable as cut flowers for small vases.
All Colors Mixed—Pkt., 10c.

Double Balsam

(Lady Slipper)

An old favorite garden flower, producing its gorgeous masses of brilliant double flowers in profusion. Balsams like the hot sun, rich soil and plenty of water.

Double Rose and Camella-flowered Mixed—Pkt., 10c; ¼ oz., 25c.

Invincible Mixed—Mixed from separate colors and includes everything that is desirable in Balsams. Pkt., 15c; ¼ oz., 45c.

Dwarf Mixed—8 inches, perfect little bushes with double and semi-double flowers. Pkt., 10c; ¼ oz., 25c.

Tom Thumb Varieties

Height 8 inches. For edging and pot plants. Pink, white and scarlet.
Each of the above packages, 10c; 3 pkts., 25c; ¼ oz., 30c.

Balloon Vine

Love in a Puff—A clean, free-growing vine reaching 10 to 15 feet, bearing numbers of large, round, inflated seedbuds resembling miniature balloons. Pkt., 5c; oz., 25c.

Browallia

One of our favorite profuse blooming bedding plants, covered with rich, beautiful winged flowers during the summer and autumn months, supplying a shade of intense blue, very uncommon; grows freely in any rich soil; blooms finely in the winter if lifted in autumn and cut back.

Speciosa Major—1 ft. high. Most brilliant blue; does well outside or in hanging baskets or vases. Pkt. 25c.

Calendula

(Pot Marigold)—1 foot

Campfire—This is a distinct new type originating from "Orange King." It is of vigorous growth, the flowers borne on stout stems. The blooms are flat, and are undoubtedly larger than those of any type previously introduced. The color of the petals is brilliant orange with a scarlet sheen, with full yellow center. Pkt., 25c; 5 pkts. for \$1.00.

Orange King—The outer petals are slightly imbricated, while those of the center are curved like those of the peony. Color glowing orange. Pkt., 10c; ½ oz., 25c.

Mixed, all colors—Pkt., 5c; ½ oz., 15c

Antirrhinum (Snapdragon)

Calendula Campfire

Candytuft

Candytuft

They soon flower from seed and remain long in beauty. For massing in flower beds and borders and for edgings they are admirably adapted.

Giant Hyacinth-Flowered White—1 foot. A grand border plant, bearing very large, bold spike of snowy white flowers, habit sturdy and compact. Pkt., 10c; ½ oz., 30c.

Dwarf, Hybrids, Mixed—Plants of fine, compact growth, covered with large flowers ranging in color from rose, salmon, coral-pink and delicate bluish to lilac and purple crimson. Pkt., 10c; ½ oz., 30c.

Mixed, all Colors—Pkt., 5c; ½ oz., 20c.

Chrysanthemum, Annual

Annual Chrysanthemums or Painted Daisies are showy and effective garden favorites, extensively grown for cut flowers. About 2 feet high.

Mixed Single—Pkt., 10c; ½ oz., 20c.

Double Mixed—Pkt., 10c; ½ oz., 20c.

Calliopsis

(Tickseed)—6 inches to 2 feet. Very graceful border plants, supplying throughout summer an abundance of showy flowers of yellow, orange and dark brown variations. Will thrive anywhere.

Crown of Gold (Coronata Maxima)—Splendid cut flower. Pure golden yellow 2 inches across, on long, wiry stems; barmy and blooms nearly all season. Pkt., 10c; ½ oz., 35c.

Drummond's Golden Wave—2 feet. Flowers yellow with a circle of rich crimson-brown around the eye. Pkt., 10c; ½ oz., 20c.

Tall Varieties, Mixed—Valuable for wild gardens, and for cutting. Pkt., 5c; ½ oz., 20c.

Dwarf Varieties, Mixed—Valuable for small mixed beds and borders. Pkt., 5c; ½ oz., 25c.

Double Mixed, all colors. Pkt., 10c; ½ oz., 20c.

Canary Bird Vine

15 to 20 feet

A dainty vine with beautiful cut leaves and pretty, delicate flowers of a clear canary-yellow. Does well in the shade. Pkt., 10c; ½ oz., 25c.

Cardinal Climber

25 feet

A very attractive, strong and rapid grower, attaining a height of 25 feet, with beautiful fern-like lacinated foliage and literally covered with a blaze of fiery cardinal red flowers from midsummer to frost. Pkt., 25 seeds, 15c.

Plants of the Hardy Chrysanthemums together with seeds and plants of a selected list of other beautiful hardy perennial flowers will be found on pages 78-83 inclusive.

Celosia (Coxcomb)**Crested Dwarf Sorts**

President Thiers—Fine dwarf habit, with bronze foliage, and large handsome velvety crimson combs. Pkt., 10c; ½ oz., 40c.

Dwarf Mixed—Pkt., 10c; ½ oz., 50c.

Plumosa or Plumed Varieties

2½ to 3 feet

They form pyramidal bushes branching out in candelabra shape, and the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage.

Plumosa Mixed, all Colors—Pkt., 10c; ½ oz., 25c.

Pride of Castle Gould—Plants grow compact and pyramidal and produce immense flower heads, resembling willow plumes in many remarkable shades. Pkt., 25c; ½ oz., 65c.

Chinese Woolflower (Celosia Childs)—Plants grow two to three feet high, the bloom starting early with a central bead, round and globular, which often reaches the immense size of two feet in circumference. Pkt., 10c; ½ oz., 40c.

Cosmos Single

Clarkia

2 feet

Clarkias are summer annuals perfectly hardy, and can be grown in ordinary soils.

Apple Blossom—Double apple blossom, pink.

Brilliant—Double salmon scarlet.

Queen Mary—Double rose carmine.

White Prince—Very double, pure white. Each of above, pkt., 10c; ¼ oz., 30c.

Special Mixture—Made up especially from the above named varieties. Pkt., 10c; ¼ oz., 30c.

Cobaea

Scandens Cathedral Bells—30 feet. One of the handsomest and rapid growing climbers. The flowers are bell-shaped and open a clear green but turn a beautiful purplish blue. Seed should be sown edgewise. Very vigorous and prolific bloomer. Pkt., 10c; ¼ oz., 25c.

Coleus

The handsomest foliage plant obtained from seed. The leaves are heart-shaped and handsomely crimped toothed and frilled; their color combinations are remarkably rich. Pkt., 25c; 1/32 oz., \$1.00.

New Cosmos (Hollywood Star)

COSMOS

4 to 6 feet

Hollywood Star—This new variety is a graceful oddity, which attracts great attention. The flowers are pink, red and white, borne on long stems. On account of being so unusual and striking, it is in great demand. Pkt., 35c; ½ oz., 80c.

Early Flowering Mammoth—These are recommended for planting north of the latitude of Middle Illinois, as the late, or Giant flowered varieties are nearly always caught by early frost.

White, Pink, Crimson, Mixed, all colors. Each of the above, pkt., 10c; ¼ oz., 20c.

Late Giant Flowered—Crimson, White Lady Lenox, Pink Lady Lenox, Giant Mixed.

Each of the above, pkt., 10c; ¼ oz., 20c.

Late Double Flowered—These differ from the other cosmos in the formation of the center of the flower, which develops a crown or crest, like an anemone, the guard petals remain the same. **Crimson, White Queen, Pink Beauty, Mixed**—Each of the above, Pkt., 15c; ¼ oz., 50c.

Double Early Flowering—These grow to a height of about three feet forming a perfect bush, massed with bloom, bearing beautiful double flowers of good size, on long stems. They come about 65 per cent double from seed. Best mixed, Pkt., 20c; ¼ oz., 75c.

Double Cosmos, Anemone Fl.

Centaurea Cyanus

Centaurea Cyanus

(Batchelor's Button or Cornflower)

—2 feet. One of the most valuable blue flowers for the border. Re-seeds itself and may be used for naturalizing purposes. The double flowers are best, we have discarded the old single varieties.

Double Flowering Varieties—White, Blue, Pink and Rose Shades, Purple, Double Mixed, Dwarf Victoria, 9-inch Edging, blue. Each of the above, pkt., 10c; ¼ oz., 30c.

Centaurea Imperialis

(Sweet Sultan)

The beautiful sweet scented flowers are borne on long, strong stems; when cut will last for several days in good condition. White, Dark Lilac, Brilliant Rose, Purple Crimson, Deep Lavender, Mixed, all colors. Each of the above, pkt., 10c; ¼ oz., 30c.

White Leaved Centaureas

(Dusty Millers for Bedding)

Candidissima—10 in. Thick silvery white leaves. Should be sown early. Pkt., 10c; 1/16 oz., 40c.

Gymnocarpa—1½ to 2 ft. Foliage finely cut of silvery gray color. Pkt. 10c; ¼ oz., 30c

Carnations

Easily grown either in flower-beds, borders, or pots.

American Hybrids—A race of large-flowered carnations, bearing handsome blooms on long, wiry stems. Pkt., 35 seeds, 25c.

Giant Margaret Mixed—Flowers of very large size, measuring 3 inches or more in diameter; colors include all the shades of white, pink, crimson and striped. Pkt., 100 seeds, 15c.

Cypress Vine

10 feet

It has a profusion of scarlet or white star-shaped blossoms, and its finely cut foliage is particularly ornamental.

White—Pkt., 10c.

Scarlet—Pkt., 10c.

Mixed—¼ oz., 20c; pkt., 10c.

Ivy-Leaved Scarlet—A rapid-growing variety with deeply lobed, ivy-like leaves, and small scarlet flowers. Pkt., 10c; ¼ oz., 30c.

Let us help you make your Outdoor Living Room more attractive. (See page 1).

Cyclamen

(Alpine Violet)—1 foot

Charming house plants, with beautiful foliage and rich colored, fragrant flowers. May be successfully raised from seed with a little care and patience.

Giant Flowered Cyclamen—Mixed extra choice, 10 seeds, 20c; 20 seeds, 30c; 100 seeds, \$1.20.

Dahlias

One of the best late summer and autumn flowering plants, and now enjoying a wide popularity; as easy to grow from seed as Nasturtiums; the double sorts will bloom the first season if the seed is sown before the beginning of April; the single sorts will bloom from seed sown in the open grounds as late as June, although an earlier start is better.

Double All Types, Best Mixed—Pkt., 15c; ¼ oz., 65c.

See pages 75-76 for Dahlia Roots.

Carnation, Giant Margaret

Dianthus

(Garden Pinks)—1 foot

A popular annual variety distinguished for brilliant, contrasting colors appearing in each flower.

Single Flowering

Laciniatus Splendens—The flowers are beautifully fringed and come in various shades of red with large white centers and white edges around the petals. Pkt., 20c; ¼ oz., 40c.

Single Mixed—Embracing many single types in good color assortment. Pkt., 10c; ¼ oz., 35c.

Double Flowering Pinks

Mixture of Double Pinks—Selection of the best double pinks in cultivation. Flowering ranging in color through all the brightest and most brilliant shades. Pkt., 10c; ¼ oz., 30c.

Cenarea Imperialis

Dimorphotheca
(African Golden Daisy)

Aurantiaca—An extremely showy annual daisy from South Africa, which suits our climatic conditions perfectly. The bushy plants grow 12 to 15 inches high. The flowers, which are 2½ inches and over across, are a unique, rich, glossy orange-gold, with dark disc and halo. They bloom the greater part of the summer and fall. ¼ oz., 40c; pkt., 10c.

Erysimum (Fairy Wallflower)

Perofskianum (Orange Beauty)—A pretty annual, growing about 18 inches high, bearing throughout the summer dense racemes of brilliant orange-yellow Wallflower-like flowers a rather unusual color in annuals. It is of the simplest culture. Sow the seed in the open ground in spring and give it a sunny position. ¼ oz., 20c; pkt., 10c.

Everlastings

Winter bouquets of your own growing make an attractive present for a friend, besides supplying a bit of brightness for your own home. The drying is a simple operation. Cut before fully expanded, bunch like sweet peas and hang on a line in a warm, dark, dry room. They will dry thoroughly in ten days.

Collection of one pkt., each of eight leading annual everlastings for 65c.

Dianthus Laciniatus

Escholtzia (California Poppy)

Eschscholtzia

(California Poppy)—1 foot. The State flower of California. A bright free-growing plant of low spreading growth with finely cut silvery foliage. Sow the seed where the plants are to remain.

Carmine King—Beautiful carmine rose color, both on the interior and exterior of the flower. Pkt., 10c; ¼ oz., 25c.

Golden West—Flowers bright yellow and orange, pencilled and blotched. Pkt., 5c; oz., 30c.

Mandarin—Inner side of the petals rich orange, the outer side brilliant scarlet. Pkt., 10c; ¼ oz., 35c.

Mixed all colors—Many shades. ¼ lb., \$1.00; oz., 35c; pkt., 10c.

Double and Semi-Double Mixed—Pkt., 10c; ¼ oz., 30c.

Euphorbia

Variegata (Snow on the Mountain)—The flowers are inconspicuous; the foliage, however, is attractive; veined and margined with white; 2 feet. Per ¼ oz., 20c; oz., 50c; pkt., 10c.

Gaillardia

(Blanket Flower)

They will produce from early spring until late fall a continuous profusion of brilliantly colored flowers, red and yellow predominating. Of easy culture, sow where they are to remain.

Annuals

Amblyodon—Deep red. Pkt., 10c; ¼ oz., 40c.

Piota Single Mixed—Pkt., 10c; ¼ oz., 25c.

Lorenziana Double Perfection Mixed—Large handsome heads of double quilled flowers in rich shades of red and yellow. Pkt., 10c; ¼ oz., 25c.

Godetia

1½ feet

The plants bloom profusely and bear showy flowers of satiny texture in a rather poor soil.

Many Sorts and Colors Mixed—Pkt., 10c; ¼ oz., 25c.

Double Mixed—Pkt., 10c; ¼ oz., 35c.

Dwarf Sorts Mixed—Neat globular, about 10 inches in height. Pkt., 10c; ¼ oz., 35c.

Gomphrena

(Globe Amaranth)

A showy annual everlasting with clover-like heads.

Mixed all colors—Pkt., 10c; ¼ oz., 25c.

Grasses

Ornamental Annual Mixed—2 to 5 feet. These are most useful for winter bouquets when combined with Everlasting flowers. They are easily grown in any soil. Pkt., 10c; ¼ oz., 30c.

Helichrysum (Strawflower)

Helichrysms are an ornament to the garden when growing and are everywhere prized for the winter bouquets.

Mixed all colors—Pkt., 10c; ¼ oz., 30c.

Heliotrope

Favorite on account of its delightful fragrance. Seed sown in the Spring make fine plants for bedding out and are as easily grown as Verbenas.

Mammoth Mixed—Large flowers, ranging in shade from dark blue to lilac. Pkt., 10c; ¼ oz., 30c.

Hollyhocks

(Annuals)—5 feet

These annual kinds, however, bloom the first year.

Everblooming Single Mixed—Large single flowers, exhibiting every shade known in Hollyhocks. Pkt., 10c; ¼ oz., 40c.

Everblooming Double Mixed—Double and semi-double. Pkt., 10c; ¼ oz., 55c.

Kochia New Giant

Gypsophila

Gypsophila Elegans Grandiflora Alba (Angel's Breath)—Two feet. This is an improved, large flowering, pure white form of the annual Angel's Breath; of free, easy growth. Several sowings should be made during the season to keep up a supply. Combined with sweet peas they make pretty bouquets. Pkt., 10c; oz., 25c.

Elegans Delicate Pink—A pretty blush pink form of the above, and equally as valuable for cutting; 18 inches. Pkt., 10c; oz., 30c.

Gourds

Twenty feet. 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.

Small Fruited Varieties, Mixed—Pkt., 10c; oz., 25c.

All Varieties, Mixed—Pkt., 10c; oz., 25c.

Hunnemannia

Fumariaefolia (Bush Escholtzia, or Yellow Tulip Poppy)—1½ ft. The plants grow into a shrubby bush and produce their large cup-shaped flowers 3 in. across on stems 12 in. long. The color is of clear, bright yellow, the petals are broad and crinkled, like crushed satin. The cut blooms keep in water two weeks. Pkt., 10c; ¼ oz., 25c.

Kochia

The New Giant (Summer Cypress, Burning Bush)—Grows 2 to 2½ feet high and resembles a close-clipped ornamental evergreen. The plant may be grown singly or in the form of a hedge or background. In early Autumn the whole bush becomes carmine or blood-red, whence the name of Mexican Fire Plant, Burning Bush, etc., ½ oz., 30c; pkt., 10c.

Lantana

Hybrida, Mixed—2 ft. Shrubby plant with Verbena-like flowers in shades of white, red and yellow. May be grown in pots or set out in summer, remains in bloom late in autumn. They have an agreeable aromatic perfume. Pkt., 10c; ¼ oz., 30c.

Larkspur

(Annual Delphinium)

Sow seed in the open border either in early spring or late fall so germination may take place very early.

New Larkspur "Los Angeles"—This new variety is much more vigorous and taller growing than the other stock flowered types on the market. It is a very profuse bloomer, forming large double flowers well placed on the long stems to set off its attraction. It is resistant to mildew, thrifty and vigorous.

It is an excellent cut flower, particularly lovely under artificial light. Color is rich salmon ground, overlaid with brilliant pleasing rose, foliage is dark green which adds to the attractiveness of the large double flowers. Every flower lover will be delighted in trying out this new novelty. (See Back Cover for color illustration). Packet, 25c each; 5 pkts. for \$1.00.

Larkspur Double Stock-Flowered—(3 to 4 ft.) Graceful and attractive in the garden and wonderful cut flowers. **Dark Blue, Exquisite Pink, Lilac, Carmine, Sky Blue and White.** Each of the above, pkt., 10c; ¼ oz., 30c.

Mixed, all colors—Oz., 70c; ¼ oz., 20c; pkt., 10c.

Lupinus

Annual Mixed—Pkt., 10c; oz., 30c.

Larkspur Stock Flowered

Collection
No. 1
Dwarf
Nasturtium
Our choice of
one oz. each
of 5 varieties
for 60c

Nasturtiums

Lavatera 2½ feet

The Lavateras or Annual Mallows are showy and effective plants covered during the entire summer with bloom.

Splendene Alba—Very large, silky, pure white flowers. Pkt., 10c; ¼ oz., 20c.

Splendene Rosea—Very large, bright rose flowers. Pkt., 10c; ¼ oz., 20c.

Lavender Lace Flower

Didiscus coerulescens—3 feet. Long-stemmed lavender flowers; look like blossoms of Queen's Lace Handkerchief or Wild Carrot. A constant bloomer. The culture is not at all difficult, only the seed is somewhat slow in germinating. To be sown in May in partial shade where it is to remain. Pkt., 10c; ¼ oz., 50c.

Marigold Tagetes

In late summer, when many bedding plants are past their prime, Marigolds afford a wealth of color that is simply invaluable.

Lemon Queen African—Pkt., 10c; ¼ oz., 40c.

Orange Queen African—Pkt., 10c; ¼ oz., 40c.

Tall African Mixed—Extra large double flowers. Pkt., 10c; ¼ oz., 20c.

Double Dwarf African (Pride of the Garden)—15 inches. Immense golden yellow flowers, compact dwarf habit forming dense bushes. Pkt., 10c; ¼ oz., 20c.

Dwarf French Double Sorts, Gold Striped—10 inches—Velvety maroon, striped gold. Pkt., ¼ oz., 20c.

Dwarf French Double Mixed—Low bushes, covered with small flowers. Pkt., 10c; ¼ oz., 30c.

Single Dwarf Varieties

Legion of Honor—Flowers rich golden yellow, marked with velvety brown. Best for edging. Pkt., 10c; ¼ oz., 25c.

Signata Pumila—A dwarf, compact, mushy plant, with beautiful, delicate, fern-like leaves, densely covered with flowers of bright golden yellow. Pkt., 10c; ¼ oz., 50c.

Lunaria (Honesty)

Annua (Biennis) (St. Peter's Penny)—Flowers purple, followed by silvery seed pods, prized for winter decoration. Annual but readily self-sows. Pkt., 10c; ¼ oz., 25c.

Linum

Grandiflorum Rubrum (Crimson Flax)—2 feet. One of the most brilliantly colored of summer annuals, flowers glowing crimson-rose. May be had in bloom from May to October by successive sowings. Pkt., 10c; oz., 30c.

Lobelia Erlinus Compacta

This charming class forms compact little bushes about 6 inches high and are fairly sheeted with bloom throughout the season. Highly desirable for edgings, ribbon bedding and garden decoration as well as for pot culture.

Crystal Palace Compacta—6 in. Rich deep blue; dark foliage; the finest dark blue for hedging. ¼ oz., 50c; Pkt., 10c.

Graellsii—Light blue; light green foliage; trailing. ¼ oz., 40c; Pkt., 10c.

Mixed Dwarf—Pkt., 10c; ¼ oz., 40c

NASTURTIIUMS

These graceful flowers are so thrifty they do well in poor soil, and are so generally grown, we are apt to think of them with less regard than the more difficult and rarer blossoms. But wise gardeners know that no other flower has so rich a color range of these rare shades, and is so prolific of the blossoms needed to register in the garden bed or border.

Tom Thumb or Dwarf Types

Aurora—Chrome yellow blotched crimson.

Beauty—Scarlet splashed canary.

Bronze—Burnt bronze color, dark leaved.

Empress of India—Very dark leaves, crimson flowers.

Golden King—A golden yellow.

P.-W.'s Best Dwarf Mixed—Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.35.

Climbing or Tall Types

Emperor of India—Very dark foliage. Rich, deep scarlet flowers.

Twilight—Yellow, marbled salmon rose.

Vesuvius—Salmon rose, dark leaved.

Von Moltke—Ruby red.

Price, each of the above, Pkt., 5c; oz., 20c; ¼ lb., 50c.

P.-W.'s Best Tall Mixed—Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

Marigold Orange Queen

Mignonette

(Reseda) 6 to 12 inches

No garden is complete without this fragrant plant of unassuming mien. One of the principal uses is for cutting purposes and combining in bouquets with other more pretentious blossoms without its delicate odor.

Grandiflora—Large flowered. Oz., 20c; pkt., 5c.

Machet—It is the best Mignonette for all purposes, either outside or inside. It is an ever-bloomer, the flowers lasting until late in the fall. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Mixed—Many shadows and types. Pkt., 5c; oz., 25c.

Mirabills

(Marvel of Peru or Four O'Clocks) 2 Feet

This is another good old-fashioned flower of bushy habit, bearing hundreds of flowers during the season of white, yellow, crimson and violet.

Mixed, all sorts and colors— $\frac{1}{4}$ lb., 40c; oz., 20c; pkt., 5c.

Dwarf Mixed—12 in. Pkt., 10c; oz., 35c.

Sweet-Scented (Longiflora Alba)—White. Pkt., 10c; oz., 40c.

Mysostis

(Forget-Me-Not)

They are considered among the best spring flowers and grouped with Pansies and Daisies the most lovely combinations may be obtained. Respond to good treatment and flourish in shady, moist situations.

Alpestris Blue—Trailing habit. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

Alba—White. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

Rosea—Pink. Pkt., 10c; $\frac{1}{4}$ oz., 60c.

Eliza Fonrobert—Flowers large, sky blue, with clearly defined white eye. Pkt., 10c; $\frac{1}{4}$ oz., 60c.

Nigella(Love in the Mist)—1 $\frac{1}{2}$ feet

Miss Jekyll—A lovely variety, bearing on long stems large semi-double flowers of a lovely tender blue, nestling in fine feathery foliage. Pkt., 10c; oz., 30c.

Pentstemon

Sensation—Although this is a half hardy perennial it can easily be grown as an annual. If sown in beat in February or March, they will flower freely the first year, producing large spikes of handsome gloxinia-like flowers. Often 2 in. across and in the most brilliant and varied colors, many of which are beautifully edged with a fine contrasting color. 25c per pkt.

Morning Glories**Convolvulus Major**—Tall Varieties

Mixed, all colors— $\frac{1}{4}$ lb., 35c; oz., 20; pkt., 5c.

Convolvulus Minor—Dwarf or Bush Varieties—1 foot. Are very showy and beautiful hardy annuals for flower beds and borders, also rockwork; they bloom for a long period and delight in sun.

Mixed, all colors—Oz., 20c; pkt., 5c.

Ipomoea**Imperialis (Japanese Morning Glory)**

Mixed—The Japanese Morning Glory requires a warm situation. The south side of a wall or building where the plants are protected from the north and west winds will mostly be found beneficial for these vines. Pkt., 10c; oz., 25c.

Setosa (Brazilian Morning Glory)

—The thick stems and leaf stalks are covered with reddish brown hairs. The deeply lobed leaves are about nine inches across; flowers about two inches in diameter, of delicate texture, tinted pink with a five-pointed star of satiny pink, and are followed by curious seed pods. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Nicotiana

(Sweet Scented Tobacco Plant)—2 feet. One of the easiest annuals to raise and one of the most effective. The flowers open toward evening and emit a powerful perfume.

Affinis—Most showy and profuse bloomer, giving a continuous display of waxy white flowers right through the summer and autumn. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Sanderae—Bearing beautiful rosy carmine flowers. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Pentstemon Hybrid (Sensation)

Moon Vine

Ipomoea Mexicana Grandiflora Alba (White Moon Flower)—Covered with large white flowers every evening and cloudy day. Seeds should be started in. Pkt., 10c; $\frac{1}{4}$ oz., 35c.

Ipomoea Mexicana Grandiflora Giant Pink—Soft lilac pink flowers. Pkt., 10c; $\frac{1}{4}$ oz., 35c.

PANSIES

Pansies like cool weather, and the best way to grow them in the north is to start them in the late summer and carry the plants over the winter in a cold frame. The plants will then come into flower with the first tulips. The violas will live over winter with a heavy mulch for protection, and are splendid for bedding.

P.-W.'s Best Giant Mixture

It includes the richest reds, coppers and bronzes, together with the most delicate rose-pink shadings; Pkt., 25c; $\frac{1}{4}$ oz., \$1.00.

Boulogne Giant Mixture—The flowers are of the largest size, great substance, fine form and are borne on particularly strong stems. They are mostly 3 and 5 blotched delicately veined. Pkt., 25c; 1/32 oz., \$1.00.

Masterpiece (New Giant Curled or Spencer Pansies)—The petals are crimped and curled so the flowers appear double. Pkt., 25c; $\frac{1}{4}$ oz., 75c.

Paris Market—An improved strain of Trimardeau, with better flowers and more compact habit. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Steele's Mastodon Mixed—This is one of the most colorful mixtures of mammoth flowering pansies of which we are familiar. Pkt., 25c; 1/16 oz., \$1.00.

Bedding Mixed—Great diversity of colors, free flowering, blossoms slightly smaller than the Giant sorts. $\frac{1}{4}$ oz., 40c; pkt., 10c.

P.-W.'s Giant Pansies, Separate Colors—We offer large flowering strains in blue, orange pink, purple, red, white and yellow. Pkt., 15c; $\frac{1}{4}$ oz., 50c.

Scotch or Tufted Pansies (Viola Cornuta)—These flower all summer from seed sown in early spring, and are valuable for rock gardens, edging beds and borders. Require protection during winter. Height, 3-6 inches.

Best Mixed, All Colors—Pkt., 10c; $\frac{1}{4}$ oz., 35c.

P.-W.'s Giant Pansy

P.-W.'s Fluffy Ruffled Giants
Phlox Drummondii

The Phloxes are the showiest and most easily raised of all Annuals. All the tints of the rainbow are represented with all possible variations of stripes, veins and eyes of contrasting shades. Seed should be sown in the ground as soon as danger of frost is over and in a few weeks are a blaze of glory.

Grandiflora Varieties—1 foot. This section has beautiful, round petaled flowers which overlap each other.

Alba —Pure white.	Crown Prince —Salmony scarlet.
Altro-purpurea —Black brown.	Isabellina —Yellow.
Brilliant —Rose with dark eye.	Kermesina Splendens —Crimson, with white eye.
Coccinea —Fiery scarlet.	Golden Star —Pink with gold star.
Coerulea Striata —Blue striped.	Violet .

Each of the above, pkt., 10c; $\frac{1}{4}$ oz., 50c.

Drummondii Mixed—Good mixture. $\frac{1}{4}$ oz., 40c; pkt., 10c.

Nana Compacta Dwarf—8 inch.

Fireball —Blood-red.	Sky-blue, White Eye —
Snowball —Pure white.	Salmon Pink .
Isabellina —Yellow.	

Each of the above, pkt., 15c; $\frac{1}{16}$ oz. 40c; $\frac{1}{4}$ oz., 75c.

Passiflora

Coerulea Grandiflora (Passion Flower)—15 feet. **Southern Beauty**. A beautiful vine for greenhouse and window. Pkt., 10c; $\frac{1}{8}$ oz., 40c.

Pennisetum

Longistylum—2½ feet. An Abyssinian grass with long, feathery, bearded bristles. Pkt., 10c; $\frac{1}{4}$ oz., 30c

Rueppelianum—The spikes are longer and more graceful. Used to border canna beds. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

Balcony Petunias

A splendid large and free flowering type either for window boxes, vases, hanging baskets, etc., the flowers average 3 inches across and make a very effective display over a long season.

Balcony Blue—Velvety indigo blue. $\frac{1}{32}$ oz., 60c; pkt., 20c.

Balcony Rose—Brilliant rose-pink; very effective. $\frac{1}{32}$ oz., 40c; pkt., 20c.

Balcony White—The pure white form. $\frac{1}{32}$ oz., 40c; pkt., 20c.

Balcony Crimson—Rich velvety crimson. $\frac{1}{32}$ oz., 40c; pkt., 20c.

A packet each of the above 4 Balcony Petunias for 60c.

Petunias

For freedom of bloom and length of flowering season, the petunia is unsurpassed as a bedding or window box plant. The many improvements recently made in its color range and form of flower have raised it to the front rank. The seed are very small and germinate slowly. Sow them indoors if possible, quite early, and be patient in awaiting the appearance of the seedlings. The Balcony type, of trailing habit, are excellent for porch and window boxes.

The Single Bedding kinds can be sown out of doors in May. Our contract grower is a specialist celebrated for his magnificent strains of both the large flowering single and double varieties, which are being improved each year by careful selection and hybridization.

Large-flowering Single Sorts

P.-W.'s Superb Large-flowering Fringed—This seed is from the finest flowers of very large size and beautiful shape; deep-throated and of valued and brilliant colors, and beautifully fringed. Pkt., 200 seeds, 25c.

Purple Prince—A large flowering velvety, purple violet variety. 3 pkts., \$1.00; pkt., 35c.

P.-W.'s Fluffy Ruffled Giants—Flowers of extraordinary size and substance, and distinguished from the large flowering fringed section by the deep fluting, giving it the appearance as is artistically ruffled, and in addition to the ruffling, a very fine fringed edging, making a very handsome flower. Pkt. of 250 seeds, 50c.

Large-flowering Double Sorts

In growing Double Petunias from seed the weaker seedlings should be carefully saved, as these usually produce the finest double flowers.

P.-W.'s Superb Double-fringed—Saved from an unrivalled collection that will produce a large percentage of double flowers of the largest fringed varieties in bright colors. Pkt., 200 seeds, 50c.

Single Bedding Petunias

All of the following are wonderfully effective in beds, borders, window boxes, etc.

General Dodds—Rich crimson garnet. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Snowball—Pure satiny-white. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Violet Queen—Rich velvety violet blue. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Howard's Star—Rosy-crimson with a clearly defined five-pointed star of bluish-white. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Rose of Heaven—A very effective rich and brilliant rose-colored variety. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Rosy Morn—Soft rose-pink with white throat; very dainty. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Collection of a pkt., each of above 6 Bedding Petunias, 45c.

Collection of $\frac{1}{4}$ oz., each of above 6 Bedding Petunias, \$2.50.

Striped and Blotched—A good strain of the small-flowering type; beautifully striped and blotched flowers; fine for massing; $\frac{1}{4}$ oz., 50c; pkt., 10c.

P.-W.'s Fine Mixed Bedding—Good bright colors. $\frac{1}{4}$ oz., 40c; pkt., 10c.

P.-W.'s Superb Large Flowering Fringed Petunias.

POPPIES

Poppies are noted for their satiny flowers of silk-like texture, in many brilliant color combinations. The foliage is delicate and the blossoms are airily poised on slender stems. If the flowers are gathered early in the morning when the dew is on them, they will remain fresh in water all day. Plant the seed in succession two weeks apart for a continuous bloom all summer. Mix seed with sand before sowing so as to distribute the seed thinly and evenly.

Single Annual Poppies

Admiral—Glistening white, with a broad margin of brilliant scarlet. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

Danebrog or Danish Flag—Brilliant scarlet flowers, with a silvery spot on each petal, forming a white cross. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

Flanders Poppy—Vivid scarlet-red. This flower has in the minds of men been associated for over two hundred years with the battlefields of Flanders. Was the first official flower of the American Legion. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

Hansa—The flowers have a pure white ground color, passing towards the finely slitted edge to a deep crimson. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

Tulip (Glaucum)—Large tulip-shaped flowers of dazzling scarlet; not unlike a Scarlet von Thol Tulip. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

Shirley Poppies

(Silk or Ghaut)

Have beautiful satiny flowers of various colors, all with white centers, which makes the plants very attractive. Foliage is hairy and finely cut.

Blue Shirley—Various shades of blue. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Rose Shirley—Shades of rose and pink. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Shirley Mixed—Beautiful shades in delicate shades of rose, apricot, salmon-pink, and bluish to growing crimson with a sprinkling of blues. Pkt., 10c; oz., 30c.

Eldorado (Fine Mixed)—The flowers are large, single, semi-double and double, and contain magnificent shades of soft salmon, orange, orange scarlet, pink, rose and white, without any dark markings whatever. The substance of the petals in some of the lighter shades is as delicate as China silk. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

Eldorado Salmon Shades—2 feet. The introducer made a selection of these most popular shades and will especially appeal to those admiring pastel shades in flowers. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

Mixture Single Poppies—This mixture included all the above choice Poppies and many other kinds not listed. Pkt., 10c; oz., 25c.

Double Annual Poppies

American Flag—Flowers very large, snow white, scarlet bordered.

Fairy Bush—The flowers have the effect of large feathery balls, overcast with a rosy shade.

Carnation Flowered—Splendid double-fringed flowers; mixed colors. Pkt., 5c; oz., 25c.

Double Carnation Poppy

Portulaca

(Rose Moss) 6 Inches

This plant will grow and bloom profusely in dry, hot situation, where almost any other plant will soon die. Easily transplanted.

P-W's Large Flowering Single—White, yellow, pink, striped, scarlet, mixed. Each of the above, pkt. 10c; $\frac{1}{4}$ oz., 40c.

Best Large Flowering Double—White, yellow, pink and scarlet. Each of the above, pkt., 10c; $\frac{1}{4}$ oz., 75c.

Best Double Mixture— $\frac{1}{4}$ oz., 50c; pkt., 10c.

Primula Chinensis

Chinese Primrose—This is one of the most charming winter flowering house plants. The flowers are remarkable, not only for size, beauty and brilliancy of the colors, but for the great substance of the petals. Pkt., 25c.

Malacoides—10 inches. The flowers are of a delicate shade of lavender, produced in whorls on tall graceful spikes in great profusion. Pkt., 25c.

Primula (Obconica Grandiflora)—This is one of the most beautiful Primulas for pot culture and also succeeds well in the open border during the summer. Pkt., 200 seeds, 25c.

Single Shirley Poppy

Pyrethrum

Aureum (Golden Feather)—6 inches. One of the best plants for edging, grown for its beautiful yellow foliage. Most successfully treated as an annual. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Rainbow Corn

(Zea Japonica Variegata)

Ornamental foliage plant, highly effective and very interesting; grows about 5 feet high, quite bushy, variegated leaves striped with bright green, silvery white, rosy purple and sulphur yellow. Pkt., 10c; oz., 25c.

Rhodanthe

(Everlasting)—1 Foot

A charming annual; succeeds in a light rich soil and a warm sheltered situation; valuable for pot culture; flowers everlasting; mixed colors. Pkt., 10c; $\frac{1}{4}$ oz., 50c.

Salvia Splendens

(Scarlet Sage)

The Salvia Splendens is a standard bedding plant that keeps the garden bright with color until late in autumn. This plant lends itself to many uses; it makes a good pot plant, does well in window boxes, and is useful for cutting. Its best use, however, is as a hedge or border plant, for brilliant color effect.

Fireball (1½ ft.)—The bushy plant is covered with a great number of flower spikes of the most fiery scarlet. The plants branch freely, the side shoots often producing 4 to 6 flowering spikes. Pkt., 15c; $\frac{1}{4}$ oz., 75c.

Splendens (Scarlet Sage)—Beautiful bright scarlet; 3 feet. Pkt., 10c; $\frac{1}{4}$ oz., 75c.

PLANT ANNUAL FLOWERS liberally for beautiful and colorful effects during the entire season. See pages 78-83 for perennial seeds and plants.

Double Shirley Poppy

Salpiglossis
Salpiglossis
2½ Feet

Undoubtedly one of the most attractive annuals and should be in every garden. Each flower is veined with a giant of gold. The Salpiglossis is deservedly known as the Orchid of Hardy Annuals.

Emperor—Crimson, pink, velvety violet, golden yellow, purple and gold, scarlet and gold, rose and gold. Each of the above, per pkt., 10c; ¼ oz., 50c.

Emperor Mixed—Large improved strain, complete range of colors. Pkt., 10c; ¼ oz., 40c.

Romneya

Coulteri (California Tree Poppy)—5 feet. Flowers all summer. Beautiful snowy white fragrant flowers. Pkt., 15c; ¼ oz., 75c.

Ricinus

(Castor Bean)

Stately, strong growing plants, with very ornamental foliage, well adapted as center plants of groups of Cannas, Dahlias, etc.

Cambodgensis—6 to 8 feet. Large palm-like leaves of darkest maroon; stalk nearly black. Pkt., 10c; oz., 25c.

Panormitanus—8 to 10 feet. Huge leaves of a peculiar old bronze shade; stems blue powdered. Pkt., 10c; oz., 25c.

Red Spire—A new and very effective variety with bronzy green foliage and brilliant rosy crimson seed spikes. Pkt., 10c; oz., 40c.

Zanzibariensis Mixed—10 to 12 feet The ornamental leaves, beautifully lobed, are 2½ to 4 feet across. Each plant makes a perfect pyramid of foliage. Pkt., 10c; oz., 25c.

Mixed—Many sorts. Pkt., 5c; oz., 20c.

Schizanthus

Rudbeckia (Cone Flower)

Bicolor Superba—2 feet. Annual. Produces an abundance of bright yellow flowers with brown central disc, fine for cutting. Pkt., 10c; ¼ oz., 25c. (See also page 81).

Scabiosa

(Mourning Bride) 2½ Feet

Commonly known as the Pincushion Plant. The flower stems are long and the blossoms keep well in water. The soft shades predominate. When given plenty of room and the seed vessels are kept regularly picked off, it will last through the whole summer.

Large Flowering Double

Snowball, golden yellow, flesh, fiery scarlet, azure fairy, cherry red, black prince, rose.

Each of the above, per pkt., 10c; ¼ oz., 25c.

Mixed—The above and others. Pkt., 10c; ¼ oz., 25c.

Scarlet Runner Beans

Scarlet Runners—A great favorite in England and Europe, not only as an ornamental climber, but for the delicious edible beans which succeed the spray of bright scarlet pea-shaped blossoms. Lb., 55c; pkt., 10c.

Scabiosa

Schizanthus

This is one of the daintiest of annuals. The seed germinates readily and in a few weeks the plant is a mass of small but bright flowers in a bewildering range of colors, all blotched and marked in contrasting shades.

Grandiflorus, Garaway's Hybride—A grand strain bearing a profusion of large flowers, all with handsome markings on a white, buff, brilliant rose, rich blue or purple ground. Pkt., 25c; ¼ oz., 50c.

Wisetonensis—1½ feet. Profusion of flowers varying from almost white with yellow eye to a brilliant rose with bronze brown center. Pkt., 15c; ¼ oz., 50c.

Mixed, all colors—¼ oz., 25c; pkt., 10c.

Silene

1½ Feet

Armenia Mixed (Catchfly)—A very showy early flowering hardy annual, bearing in quantity, heads of beautiful white, pink and red flowers. Pkt., 10c; ¼ oz., 20c.

Statice

Stocks

(Large Flowering)

The flowers appear on long, stiff stalks like small rosettes, are exceedingly fragrant and range through a most complete scale of color.

Improved Large Flowering Ten Week Stocks—We furnish in colors as follows: white, yellow, rose pink, crimson, light blue, dark blue, mixed.

Each of the above, pkt., 10c; any 3 pkts. for 25c; ¼ oz., 50c.

P.-W.'s Giant Perfection "Cut and Come Again"—1½ Feet—Useful for outdoor bedding as well as for pots or cut-flower. They throw out numerous side branches, all bearing very double, fragrant flowers.

White, canary, yellow, pink, old rose improved, scarlet, light blue, dark blue, mixed.

Each of above, pkt., 10c; ¼ oz., 65c

Statice

Russian (Suworowi)—1 foot. Flowers bright rose color; valuable for winter bouquets. Pkt., 15c; ¼ oz., 75c

Bonduelli—Producing numerous heads of bright yellow flowers, valuable for drying, very attractive. Pkt., 10c; ¼ oz., 25c.

Sinuata Blue—Forming pretty rosettes of foliage from which rise branching flower stems 2½ feet high, light to dark lavender flowers. Pkt., 10c; ¼ oz., 25c.

Sinuata Rosea—Pkt., 10c; ¼ oz., 25c.

Sinuata White—Pkt., 10c; ¼ oz., 25c.

Stocks

MARVELOUS SWEET PEAS

Sweet Peas are of easy culture and there should be no failures if ordinary care is taken. The absolute essentials are good seed, rich soil deeply dug, early sowing, early staking and frequent stimulation to insure continuous growth and good cultivation to keep the soil loose and porous. The seed should be sown as early in the Spring as the soil can be worked. In the vicinity of Salt Lake, early March in average years is the proper time. It is best to make a trench or furrow about six inches deep, in the bottom of which sow the seed and cover with about one inch of soil, pressing it down firmly. As soon as they are above the ground thin out about three or four inches apart. When planted too close they do not obtain full development. They should be staked up either with branches or stout stakes on which wire netting has been fastened; these should be about four or five feet high. Sweet Peas should be watered thoroughly and frequently and flowers cut often to prevent running to seed which will stop them from continuing in bloom. One oz. will plant 25 feet of row. To inoculate the seed gives added vigor and health. See page 30.

Early Flowering Spencers

This new type is in great demand by commercial florists for forcing under glass and are just as valuable for outdoor culture, coming into flower five or six weeks earlier than the regular orchid-flowered type. If flowers are kept picked will continue to bloom over a period of nearly four months.

All White—Improved. Pure white.

Blue Bird—Violet blue.

Early Harmony—The Finest clear lavender.

Early True Blue—Rich mid-blue.

Early Zvolanek's Rose—Rich rose pink.

Fair Maid—Blush-pink.

Grenadier—Dazzling scarlet. Excellent. Pkt., 10c; oz., 85c; ¼ lb., \$3.00.

Glitters—Salmon. Very fine.

Illumination—Salmon cerise.

Meadow Lark—Primrose yellow.

Rose Dore—Rich, rosy salmon.

Sweet Lavender—Clear lavender.

Varrawa—Bright rose pink, lighter wings.

Any of the above except where noted—Pkt., 10c; oz., 55c; ¼ lb., \$1.75.

Early Flowering Spencer Mixed—Pkt., 10; oz., 50; ¼ lb., \$1.50; lb., \$5.00

Cupid or Dwarf Sweet Peas

These form a line of emerald-green foliage a little over a foot wide and 6 inches high, and from June until late summer are literally a sheet of bloom: the mixture contains all the colors. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.

P.-W.'s Giant Spencer Sweet Peas

Of the hundreds of Orchid-flowered or Spencer Sweet Peas introduced in the last few years, we offer this season what we consider the very choicest and most distinct varieties, each one of which is a leader in its respective color, and sure to give entire satisfaction.

Austin Frederick Improved—Large rosy lavender, the best in this color.

Blanche Ferry Spencer—Bi-color immense, pink and white.

Blue Bird—Bright silvery blue.

***Charming**—A most brilliant rosy orange cerise, large flower.

Crimson King—Bright crimson-scarlet of largest size.

***Chieftain**—A distinct rich deep mauve.

***Dobbie's Cream**—The finest primrose-yellow.

Fortune—Very rich deep violet blue.

George Shaver—Glowing orange. Splendid.

***Gleanegles**—Lavender blue, very large.

***Grenadier**—A most brilliant scarlet.

***Huntsman**—Intense poppy-scarlet. Very large and wavy.

Illuminator—Bright salmon, cerise sparkling with orange.

***Mary Pickford**—Dainty pink suffused salmon.

Mammoth—Rich orange salmon salmon self. Pkt., 10c.

***Model**—Enormous size. The best white (black seeded).

Magnet—A most delicately colored large pale pink, lightly flushed with salmon.

***Margaret Atlee**—The best giant rich pink.

***Olympia**—Rich royal purple.

***Powerscourt**—A large and fine pure bluish lavender.

Prince of Orange—A wonderful glowing orange self, flowers large.

***Pinkie**—Larger than Countess Spencer which it has now superseded, lively rose-pink.

—Royal Salute—The sensational fiery-scarlet cerise, preferable to "Fiery Cross," same color.

R. F. Felton—Exquisite large soft lavender blue with slight suffusion of rose.

Sunset—A lovely old rose color.

Splendour—Rich reddish maroon very pleasing.

Supreme—The best large bluish pink.

Price—Any of the above, except where noted, pkt., 10c; oz., 30c; ¼ lb., 90c; lb., \$3.00

P.-W.'s Special Collection Spencer Sweet Peas

1 Pkt. each of Best Red, White, Lavender, Pink, Salmon and Maroon (6 pkts.) for.....50c
 "Rainbow Collection (A) of one packet each of the twelve "*" varieties offered above, \$1.00.
 "Rainbow Collection (B) of 1 ounce of each of the twelve "*" varieties offered above, \$2.25.

P.-W.'s GIANT SPENCER MIXED

This represents the highest development in Sweet Peas to date. This mixture has been made up out of named sorts only, insuring a well balanced range of colors, it would be impossible to get anything of higher quality at any price. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., \$2.00.

Verbena

Sunflower (Helianthus)

Large Flowered Tall

These comprise plants of majestic growth and immense showy flowers.

Red Sunflower—4 to 8 feet. Some flowers of a rich chestnut-red color, others tipped with yellow and others slightly washed with red. Pkt., 10c; ¼ oz., 20c.

Argyrophyllus—4 feet. Handsome silvery foliage, single bright yellow flowers, black disk, pyramidal growth. Pkt., 5c; ¼ oz., 15c.

Chrysanthemum Flowered Double—6 feet. Golden yellow flowers. Pkt., 10c; ½ oz., 25c.

Russian Mammoth—See Farm Seeds, page 45.

Miniature-Flowered Sunflowers.

The *Helianthus cucurbitifolius* form spreading bushes with small graceful foliage and bear a multitude of small elegantly formed flowers, which are borne for a long time in succession.

Stella—Large golden yellow petals; small, dark center. Pkt., 10c; ¼ oz., 30c.

Orion—Petals rolled, resembling Single Cactus Dahlia. Pkt., 10c; ¼ oz., 30c.

Liliput, Baby Sunflower—6 to 8 inches. Flowers are single, bright yellow, dark disc. Pkt., 10c; ¼ oz., 30c.

Zinnias

The most gorgeous annuals with a wonderful range of color. Beautiful old rose, dainty cream, striking red and brilliant yellow flowers of velvety texture, extremely double with long stems and good keeping qualities, make this old-fashioned flower a joy in the garden. The Colossal produce such enormous blooms they appear as greenhouse Chrysanthemums that have mistaken their time and place of flowering. If you plant but one annual, plant this. The plants may be taken up when in full bloom and transplanted without any visible effect.

P.-W.'s Giant Double Colossal Zinnias

3 feet

The flowers are of enormous size, thickly set with velvety petals. The plants are healthy, vigorous, branching freely, and make excellent material for grouping or cutting.

White, Salmon Shades, Pink Shades, Sulphur Yellow, Orange, Scarlet, Violet, Purple.

Each of above, pkt., 10c; any 3 for 25c; ¼ oz., 35c.

P.-W.'s Colossal Zinnias, Mixed—The flowers are gigantic in size and deep and velvety in appearance, exhibiting all the news and interest colors. Pkt. 10c; ¼ oz. 30c.

Verbena

Verbena is one of the most popular garden annuals and lends itself willingly to many uses. The clusters of showy and often fragrant flowers are borne in constant succession from June until frost.

Hybrida

Defiance—An intense scarlet. Pkt., 10c; ¼ oz., 50c.

Dark Blue with White Eye—Pkt., 10c; ¼ oz., 50c.

Lutea—Yellow. Pkt., 10c; ¼ oz., 60c.

Striped—Mostly light colors with red and blue stripes. Pkt., 10c; ¼ oz., 50c.

White—Dense heads of finely shaped white flowers. Pkt., 10c; ¼ oz., 50c.

Mayflower—Various shades of pink. Pkt., 10c; ¼ oz., \$1.00.

Firefly—Intense red. Pkt., 10c; ¼ oz., 70c.

Purple Shades—Dark purple. Pkt., 10c; ¼ oz., 50c.

Mammoth Mixed—Producing in handsome umbels flowers of large size in beautiful shades of white, rose, scarlet, blue, purple. Pkt., 10c; ¼ oz., 40c.

Hybrida Gigantea A wonderful mixture of large flowering varieties. The flowers are, as the name indicates, gigantic, and with white eye, the reds particularly attractive. Pkt., 15c; ¼ oz., 50c.

Erlinoides (Moss Verbena)—6 inch. Produces a mass of moss-like foliage, spreading over the ground like carpet, above which are borne heads of purplish-blue and white blossoms; flowers in June and continues until frost. For beds, baskets or rockeries it is highly desirable. Pkt., 10c; ¼ oz., 80c.

Venosa (Hardy Garden Verbena)—Used for bedding purposes; thrifty grower, about 1 foot high, and covered from early summer until fall with its bright purplish-heliotrope flowers. Pkt., 10c; ½ oz., 70c.

Thunbergia

(Black-Eyed Susan)

Alata—Beautiful, rapid growing annual climbers preferring a warm, sunny situation; used extensively in hanging-baskets, vases, low fences, etc., very pretty flowers in buff, white, orange, etc., with dark eyes; mixed colors; 4 feet. Pkt., 10c; ¼ oz., 30c.

Wallflower

Well-known deliciously fragrant half hardy perennials, blooming early in the spring, with spikes of beautiful flowers. In the north they should be protected in a cold frame in the winter and planted out in April.

Single Mixed—All colors. Pkt., 10c; ¼ oz., 20c.

Double-flowering Finest Mixed—Pkt., 15c; 1/16 oz., 40c.

Wild Cucumber (Echinocystis Lobata)

Thirty feet. This is the quickest growing climber on our list. Grows wild, self-sown in many parts of the west. Should be sown late in the fall or very early in the spring. It is thickly dotted over with pretty, white fragrant flowers followed by an abundance of ornamental and prickly seed pods. It will quickly cover an old tree or an unsightly building. Pkt. 5c; ½ oz. 15c; oz. 25c; ¼ lb., 75c.

Annual Flower Seeds Wild Garden Collection

This is a surprise collection, containing practically every annual in existence. Large borders, along carriage drives and woodland walks, shrubby borders, and the like, may be pleasingly brightened as a result of freely sowing mixed flower seeds. The expense involved is very nominal in comparison with the wealth of bloom obtained. Such plantings will be a continuous source of joyous surprise to you as, among the many growing annuals, you recognize old friends or discover new ones. And at blooming time, some of the cheery flowers may be cut and transferred indoors with out noticeably lessening the charm of the outdoor plantings. Be careful not to sow the seeds too close together, as suitable space for plant development will contribute to the effectiveness of your planting.

Dwarf Sorts—Growing from 12 to 18 inches high. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.25.

Tall Sorts—Growing from 18 to 36 inches high. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.25.

Zea (Rainbow Corn)—See page 92.

P.-W.'s Giant Colossal Double Zinnia

DAHLIA FLOWERED ZINNIAS

"Award of Merit" and Gold Medal by Royal Horticultural Society.

Large Double Flowers 6 to 8 inches across

P.-W.'s Dahlia Flowered Zinnia Collections

(A)—1 packet each of the ten varieties listed below for

\$1.00

(B)—1/16 oz. each of the ten varieties Dahlia Flowered Zinnias for

\$2.25

Postpaid

Double Dahlia Flowered Zinnias

The plants of this new race are very sturdy and produce many flowers with stout stems. In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance the flowers compare with the Show Dahlias.

Canary Bird—A delicate shade of primrose—very large and holds its color well out of bloom.

Buttercup—An immense deep creamy yellow. A very desirable flower, which should be included in every collection.

Crimson Monarch—Rich crimson. By far the largest and best of red shades. Flowers often eight inches in diameter.

Dream—A fine, deep lavender, turning to purple, a new desirable shade in Zinnias.

Exquisite—By far the most pleasing of our collection. Truly Dahlia flowered as regards form and size. Color light rose with center a deep rose.

Burnt Orange (Golden State)—A very rich orange yellow in the bud, turning to an attractive orange when in full bloom.

Old Rose—This is adequately described by its name, as it is of the real Old Rose Shade.

Oriole—An immense orange and gold bicolor, changing slightly as it ages.

Polar Bear—A very large pure white, the best white yet seen in Zinnias. True Dahlia form.

Scarlet Flame—A large, beautiful, bright scarlet, with a delightful blending of orange throughout the petal. Each of above, pkt., 15c; any 4 pkts., 50c; 1/4 oz., 40c.

Dahlia Flowered Mixed—All the above and others. Pkt., 15c; 4 pkts., 50c; 1/4 oz., 25c.

Giant Picotee

A remarkable new and distinct class with beautiful each petal being distinctly tipped with various shades of double flowers in orange, flesh, lemon, pink and cerise, dark, resembling the Picotee Carnations.

Giant Picotee Mixed—Pkt., 15c; 1/4 oz., 45c.

Zinnia California Giants (Double Flowered)

In presenting the above type we offer a rare collection of striking and desirable colors. They are larger than Colossal and a cross between them and the Dahlia Flowered types.

Lemon Queen—A most pleasing color. The petals are light canary on the upper and cerise on the lower side, the two shades blending as the flower develops. It is the only Zinnia with fragrance.

Cerise Queen—Cerise rose.

Miss Wilmot—Soft pink.

Scarlet Gem—Bright scarlet.

Orange King—Similar in color to the Calendula of the same name—a glowing orange.

Purity—A clean pure white.

Rose Queen—Bright rose with a deep rose red center and gradually develops into a warm deep rose.

Each of the above, pkt., 15c; 1/4 oz., 50c.

One pkt. each of above seven varieties, 75c.

Giant Double Quilled Achievement

The petals are partially tubular or quilled giving the flower somewhat the appearance of a cactus dahlia and displaying a rich variety of colors mostly of the warmer shades, such as, salmon, old rose, deep rose, lilac, bronze and dark red tones. On the reverse side the petals are light or dark lilac, making a wonderful combination of colors. The plants are of strong, robust growth and produce an abundance of very large double flowers often 5 inches in diameter. Pkt., 15c; 1/4 oz., 60c.

Zinnia Lilliput Double

The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are very pretty plants; bloom all summer until late in the fall. 12 in. high. We furnish them in scarlet, white, golden orange and mixed colors. Pkt., 10c; 1/4 oz., 30c.

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WARRANTY AND RESPONSIBILITY FOR CROP

What is stated in Catalog regarding this is always a condition of the sale of anything in the Seed and Nursery line.

EXTRA ORDER SHEETS FREE—ASK FOR THEM

A Rock Garden Adds Beauty to the Home Grounds

ROCK GARDENS

In order to enjoy the fascination of Rock Gardening one need not have a large Country Estate nor go in for expensive construction work. Splendid Rockeries can be made in the smallest gardens, using an odd corner which otherwise would be wasted or planted to something of little interest.

Extensive Rock Gardens are wonderful to be sure as they give opportunity to introduce the larger evergreens and deciduous shrubs which for lack of space must be omitted from the smaller place. Such lovely features as tiny pools and miniature waterfalls are possible also, but even these may be enjoyed in a small degree in the tiniest garden. In fact, your Rock Garden may include a whole world in miniature, limited only by your imagination, available space and building ingenuity.

For a list of Rock Garden plants turn to pages 76 to 83. Varieties especially adaptable are marked (R) immediately after the name.

P.-W.'s Rock Garden Plant and Seed Collection

These are fascinating collections of our own selection. Great care has been made to assemble only such hardy varieties best adaptable to the Rock Garden, all are properly labeled.

Rock Garden Seed Collection No. 40

One packet each of 10 choice varieties (regular value \$1.25) sent postpaid for \$1.00.

Rock Garden Seed Collection No. 41

Two packets each of 15 choice varieties (30 packets in all, regular value \$3.75), for \$3.00 postpaid.

Rock Garden Plant Collection No. 42

One plant each of 10 choice varieties for \$2.50 prepaid.

Rock Garden Plant Collection No. 43

Two plants, each of 12 varieties, our special selection for \$5.00 prepaid.

Special leaflet on "Rock Gardens" sent free with each of the above collections.

Water Lilies

Water Gardens are now all the "rage" and rightly so, for what is there that would give the "Outdoor Living Room" a more distinctive touch than a charming Lily Pool.

If your yard is too small for a large pool, you can at least enjoy one in miniature. An attractive pool can be made in a small tub which requires a space no larger than four by four feet. Even with such an improvised pool you can transform an uninteresting spot into a center of interest in your Home Grounds.

P.-W.'s RAINBOW COLLECTION OF SIX BEST HARDY WATER LILIES

Rose Pink \$1.50 each	Coppery Bronze \$3.50 each
Bright Yellow 1.75 each	Deep Blue 3.50 each
Bright Crimson 2.75 each	Pure White 1.50 each

One each of the above (6 in all) for \$12.50 prepaid.

Water Lilies are ready April to June. Ask for free Water Lily leaflet giving cultural directions.

Attractive Water Lily Garden in the Home Grounds of a Local Customer.

NEW ANNUAL LARKSPUR
Tall Double Stock Flowered "Los Angeles."
Pkt., 25c. (See page 88.)

PORTER-WALTON CO.
SALT LAKE CITY, UTAH