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Do not assume content reflects current scientific knowledge, policies, or practices.
New Yellow Geum: Lady Stratheden
See pages 20 and 52.

THEODORE PAYNE
345 SOUTH MAIN STREET
LOS ANGELES, CALIFORNIA

Nursery and Sales yard: 2969-2999 Los Felix Boulevard.
TO MY FRIENDS AND PATRONS

In presenting this, my twenty-first annual catalogue, I wish to call the attention of intending planters to the following reasons why I can render them superior service and offer seeds and plants unsurpassed for California and the Southwest.

Experience.—To new and prospective customers I would like to say that, having had thirty-six years' practical experience in the Seed and Nursery business (thirty-one of which have been spent in Southern California), I feel I am in a position to give advice regarding all horticultural matters pertaining to this section.

Sources of Supply.—My sources of supply are world-wide, and my stocks are purchased wherever the best seeds are obtainable. Having traveled extensively through the principal seed-growing centers of Europe, as well as this country, I am personally acquainted with most of the growers. I have seen their crops and observed their methods, and therefore am in a position to secure the best seeds.

Vegetable Seeds.—In my list of vegetable seeds will be found varieties thoroughly tried in California, and adapted to prevailing conditions of soil and climate. I have written special instructions for the growing of each kind.

Flower Seeds.—This is a great specialty of mine, and I wish to call your particular attention to my list of Novelties and Specialties in Flower Seeds in pages 35 and 37, also my superior strains of Panay, Stock, Antirrhinum, Cineraria, Coleus, Calceolaria, Aster, Scabiosa, Sweet Pea and Mammoth Zinnia. I have written instructions for the growing of annuals under California conditions, and special directions for all other Flower Seeds, thus making this portion of my catalogue the most complete ever published on this coast.

Eucalyptus Seeds.—This is a department to which I have given much study and many years of careful observation. I shall be pleased at anytime to give intending planters advice on this subject. In these pages will be found full directions for sowing the seeds, raising and transplanting the plants. Of these species obtainable here, my seeds are collected by my own men under my personal supervision from specimen trees, and can be relied on to be of the highest quality and true to name. For those species not yet obtainable here, I am in direct communication with the very best and most reliable authorities in Australia, who collect the seeds for me in their native habitats.

Tree and Palm Seeds.—Of these I have the largest and most complete assortment offered on the Pacific coast, including rare and desirable species. I enjoy a large trade in this line among nurserymen, who will testify to their genuineness and high quality.

Nursery Department.—I specialize in the growing of California Native Trees, Shrubs and Plants, but I also carry a complete line of exotics, including Shrubs, Shade Trees, Fruit Trees, Citrus and Semi-Tropical Fruits, Berries and Perennial Flowering Plants. My new nursery is located at 2969-2999 Los Feliz Boulevard, west of the Tropico Pottery and about half way between Hollywood and Glendale. I shall be glad to have customers call there and inspect my stock.

Landscape Department.—I have a complete landscape department specializing on California Wild Gardens, Hillside Gardens and natural plantings of our native flowers, shrubs and trees. Nothing blends so harmoniously with a California landscape as native flowers and nothing can have more effective at a minimum of expenditure in money, time and labor. While I specialize in naturalistic planting work I am prepared to undertake anything in the landscape line, inclusive of the planning and planting of home gardens, laying out and development of private estates, private and public parks, etc.

Gardeners.—I keep a register of gardeners' names, and to all customers wanting such help, I will be pleased to recommend competent men.

Thanking friends and customers for their generous patronage in the past, and assuring them that I will use every endeavor to merit a continuance of their favors,

Sincerely,

THEODORE PAYNE.

TELEPHONE VANDIKE 6812

OBSERVE WHEN ORDERING

How to Order.—Write plainly your name, town, county, and state, giving street numbers and postoffice box when convenient. Send all money by postoffice or express money order, bank draft or check, and small sums by registered letter. Postage stamps received in sums up to one dollar.

Terms.—Orders must invariably be accompanied with the cash, or satisfactory reference.

Prices.—As the prices on all staple articles are governed by the market fluctuations, they are subject to change without notice.

Postage Prepaid.—To customers within the United States I prepay postage at prices quoted in this catalogue on all flower, tree, palm and vegetable seeds, except peas, beans, corn, grass and clover seed, stock beets, or where otherwise noted. All plants, trees, and bulbs are forwarded at purchaser's expense and risk. No plants shipped C. O. D. For further particulars see heading above Nursery Department.

Parcel Post.—Seeds can be forwarded by parcel post, and owing to the convenience of having mail delivered at your door, it is well to take advantage of the low rates.

20 pounds anywhere within the city limits of Los Angeles for 15c.
20 pounds one hundred and fifty miles 24c, and 1c for each additional pound up to 70 pounds.

Nothing heavier than 50 pounds may be mailed farther than 150 miles in one package. The Eighth Zone includes Mexico and Canada. Nothing heavier than 11 pounds can be mailed to Mexico or Canada.

DOMESTIC PARCEL POST RATES

<table>
<thead>
<tr>
<th>On Seeds, Plants, Bulbs, Roots, etc., within the U. S. and Possessions</th>
<th>First Zone, Los Angeles and within 50 miles of Los Angeles</th>
<th>Second Zone within 50 to 150</th>
<th>Third Zone 150 to 300</th>
<th>Fourth Zone 300 to 600</th>
<th>Fifth Zone 600 to 1000</th>
<th>Sixth Zone 1000 to 1400</th>
<th>Seventh Zone 1400 to 1800</th>
<th>Eighth Zone all over 1800</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$5c</td>
<td>$5c</td>
<td>$5c</td>
<td>$6c</td>
<td>$6c</td>
<td>$6c</td>
<td>10c</td>
<td>12c</td>
</tr>
<tr>
<td>Each additional lb. or fraction</td>
<td>5c</td>
<td>1c</td>
<td>1c</td>
<td>2c</td>
<td>2c</td>
<td>2c</td>
<td>10c</td>
<td>12c</td>
</tr>
</tbody>
</table>

When it is required that postage be added to the purchase price of any article, note the distance from Los Angeles, and with which zone it falls, and it is easy to estimate the exact amount of postage required.

Non-Warranty.—While I exercise the greatest care to have all seeds pure and reliable, I do not give any warranty, expressed or implied, as to purity, description, quality, productivity or any other matter of seeds, bulbs, plants or trees I send out and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they must be returned at once.
INVITING your inspection of my ten acre nursery and salesyard at numbers 2969-2999 Los Feliz Blvd. between Hollywood and Glendale, wherein over 100 species of California Native Plants are being grown together with an extensive and varied assortment of economic and ornamental trees, shrubs and flowering plants.

Located on a main boulevard within a short distance of Los Angeles, Pasadena, Glendale and Hollywood, it offers an opportunity for intending planters to obtain desired sorts in a minimum of time, with every assurance of perfect satisfaction.

Being within a quarter-mile of express, freight and postoffice it greatly facilitates filling of out-of-town orders, assuring prompt shipment of plants and trees, right from the ground. Central location permits a quick local delivery to a wider territory than is ordinarily possible.

Drive out to the Nursery—
With the ever increasing traffic congestion in the downtown district it is almost impossible for the buyer of plants or trees to obtain his desires without great inconvenience and loss of time. In establishing the nursery on Los Feliz Boulevard care has been taken to provide ample parking space for patrons, enabling them to leisurely inspect and select the desired varieties... A pleasant drive, a helpful salesman and a complete assortment of nursery products await you at Payne’s Los Feliz Boulevard Nursery.

Downtown Store:
345 South Main Street
Telephone VAndike 6481

Nursery and Salesyard:
2969-99 Los Feliz Boulevard
Los Angeles, Cal.
<table>
<thead>
<tr>
<th>Name of Vegetable</th>
<th>Time to Sow</th>
<th>Seeds Required for</th>
<th>Depth to</th>
<th>Distance for Plants</th>
<th>Ready for use from seed in about</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>100 Ft. Row</td>
<td>One Acre</td>
<td>outdoors</td>
<td>In Rows</td>
</tr>
<tr>
<td>Artichoke</td>
<td>March to May inclusive</td>
<td>1 oz.</td>
<td>12 ozs. T.</td>
<td>1 in.</td>
<td>4 ft.</td>
</tr>
<tr>
<td>Asparagus</td>
<td>March to May inclusive</td>
<td>1 oz.</td>
<td>2 lbs. T.</td>
<td>1 in.</td>
<td>3 ft.</td>
</tr>
<tr>
<td>Beans, Bush</td>
<td>March to August, inclusive</td>
<td>1 lb.</td>
<td>25 to 50 lbs.</td>
<td>1 in.</td>
<td>6 in.</td>
</tr>
<tr>
<td>Beans, Pole</td>
<td>March to August, inclusive</td>
<td>1 lb.</td>
<td>12 lbs.</td>
<td>1 in.</td>
<td>5 to 6 in.</td>
</tr>
<tr>
<td>Beet, Table</td>
<td>Any time</td>
<td>1 oz.</td>
<td>2 lbs. T.</td>
<td>1 in.</td>
<td>3 ft.</td>
</tr>
<tr>
<td>Beet, Mangel</td>
<td>Any time</td>
<td>1 oz.</td>
<td>15 lbs.</td>
<td>1 in.</td>
<td>3 ft.</td>
</tr>
<tr>
<td>Beet, Sugar</td>
<td>Any time</td>
<td>1 oz.</td>
<td>6 ozs. T.</td>
<td>1 in.</td>
<td>2 1/2 ft.</td>
</tr>
<tr>
<td>Brussels Sprouts</td>
<td>April to August, inclusive</td>
<td>1 oz.</td>
<td>6 ozs. T.</td>
<td>1 in.</td>
<td>2 1/2 ft.</td>
</tr>
<tr>
<td>Cabbage, Early</td>
<td>August to March, inclusive</td>
<td>1 oz.</td>
<td>6 ozs. T.</td>
<td>1 in.</td>
<td>2 1/2 ft.</td>
</tr>
<tr>
<td>Cabbage, Late</td>
<td>Any time</td>
<td>1 oz.</td>
<td>6 ozs. T.</td>
<td>1 in.</td>
<td>2 1/2 ft.</td>
</tr>
<tr>
<td>Carrot</td>
<td>September to May, inclusive</td>
<td>1 oz.</td>
<td>3 lbs.</td>
<td>1 in.</td>
<td>3 ft.</td>
</tr>
<tr>
<td>Cauliflower, Early</td>
<td>March to June, inclusive</td>
<td>1 oz.</td>
<td>4 ozs. T.</td>
<td>1 in.</td>
<td>8 in.</td>
</tr>
<tr>
<td>Cauliflower, Late</td>
<td>April to June, inclusive</td>
<td>1 oz.</td>
<td>4 ozs. T.</td>
<td>1 in.</td>
<td>3 to 4 in.</td>
</tr>
<tr>
<td>Celery</td>
<td>March and April</td>
<td>1 oz.</td>
<td>4 lbs.</td>
<td>1 in.</td>
<td>6 in.</td>
</tr>
<tr>
<td>Corn-Salad</td>
<td>September to June, inclusive</td>
<td>1 oz.</td>
<td>6 ozs. T.</td>
<td>1 in.</td>
<td>2 1/2 ft.</td>
</tr>
<tr>
<td>Corn, Sweet</td>
<td>March to June, inclusive</td>
<td>1 oz.</td>
<td>2 lbs. T.</td>
<td>1 in.</td>
<td>2 1/2 ft.</td>
</tr>
<tr>
<td>Cress</td>
<td>Any time</td>
<td>1 oz.</td>
<td>2 lbs. T.</td>
<td>1 in.</td>
<td>2 1/2 ft.</td>
</tr>
<tr>
<td>*Egg-Plant</td>
<td>March to July, inclusive</td>
<td>1 oz.</td>
<td>2 lbs. T.</td>
<td>1 in.</td>
<td>2 1/2 ft.</td>
</tr>
<tr>
<td>Endive</td>
<td>March to June, inclusive</td>
<td>1 oz.</td>
<td>4 lbs.</td>
<td>1 in.</td>
<td>3 ft.</td>
</tr>
<tr>
<td>Kale</td>
<td>July to March, inclusive</td>
<td>1 oz.</td>
<td>6 ozs. T.</td>
<td>1 in.</td>
<td>10 in.</td>
</tr>
<tr>
<td>Kohlrabi</td>
<td>July to April, inclusive</td>
<td>1 oz.</td>
<td>4 lbs.</td>
<td>1 in.</td>
<td>4 to 5 lbs.</td>
</tr>
<tr>
<td>Leek</td>
<td>September to April, inclusive</td>
<td>1 oz.</td>
<td>1 oz.</td>
<td>1 in.</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>Melons, Musk</td>
<td>March to June, inclusive</td>
<td>1 oz.</td>
<td>1 oz.</td>
<td>1 in.</td>
<td>6 ft.</td>
</tr>
<tr>
<td>Melons, Water</td>
<td>March to June, inclusive</td>
<td>1 oz.</td>
<td>1 oz.</td>
<td>1 in.</td>
<td>8 ft.</td>
</tr>
<tr>
<td>Okra</td>
<td>March to July, inclusive</td>
<td>1 oz.</td>
<td>1 oz.</td>
<td>1 in.</td>
<td>1 oz.</td>
</tr>
<tr>
<td>Onion</td>
<td>September to April, inclusive</td>
<td>1 oz.</td>
<td>4 ozs. T.</td>
<td>1 in.</td>
<td>4 ozs. T.</td>
</tr>
<tr>
<td>Onion Sets</td>
<td>Any time</td>
<td>1 oz.</td>
<td>3 ozs.</td>
<td>1 in.</td>
<td>1 oz.</td>
</tr>
<tr>
<td>Parsley</td>
<td>Any time</td>
<td>1 oz.</td>
<td>3 ozs.</td>
<td>1 in.</td>
<td>1 oz.</td>
</tr>
<tr>
<td>Peas</td>
<td>September to May, inclusive</td>
<td>1 oz.</td>
<td>5 lbs.</td>
<td>1 in.</td>
<td>1 oz.</td>
</tr>
<tr>
<td>*Pepper</td>
<td>March to July, inclusive</td>
<td>1 oz.</td>
<td>5 lbs.</td>
<td>1 in.</td>
<td>5 lbs.</td>
</tr>
<tr>
<td>Potato, cut</td>
<td>January to September, inclusive</td>
<td>1 oz.</td>
<td>6 ozs. T.</td>
<td>1 in.</td>
<td>2 ozs. T.</td>
</tr>
<tr>
<td>Pumpkin</td>
<td>April to July, inclusive</td>
<td>1 oz.</td>
<td>2 ozs. T.</td>
<td>1 in.</td>
<td>2 ozs. T.</td>
</tr>
<tr>
<td>Radish</td>
<td>Any time</td>
<td>1 oz.</td>
<td>1 oz.</td>
<td>1 in.</td>
<td>2 ozs. T.</td>
</tr>
<tr>
<td>Rhubarb</td>
<td>February to April, inclusive</td>
<td>1 oz.</td>
<td>4 ozs. T.</td>
<td>1 in.</td>
<td>4 ozs. T.</td>
</tr>
<tr>
<td>Salsify</td>
<td>February to May, inclusive</td>
<td>1 oz.</td>
<td>2 ozs. T.</td>
<td>1 in.</td>
<td>2 ozs. T.</td>
</tr>
<tr>
<td>Spinach</td>
<td>Any time</td>
<td>1 oz.</td>
<td>10 lbs.</td>
<td>1 in.</td>
<td>12 lbs.</td>
</tr>
<tr>
<td>Squash, Bush</td>
<td>March to July, inclusive</td>
<td>1 oz.</td>
<td>3 lbs.</td>
<td>1 in.</td>
<td>2 ozs. T.</td>
</tr>
<tr>
<td>Squash, Late</td>
<td>March to June, inclusive</td>
<td>1 oz.</td>
<td>2 lbs.</td>
<td>1 in.</td>
<td>2 ozs. T.</td>
</tr>
<tr>
<td>Swiss Chard</td>
<td>Any time</td>
<td>1 oz.</td>
<td>12 lbs.</td>
<td>1 in.</td>
<td>1 in.</td>
</tr>
<tr>
<td>*Tomato</td>
<td>March to June, inclusive</td>
<td>1 oz.</td>
<td>2 ozs. T.</td>
<td>1 in.</td>
<td>2 ozs. T.</td>
</tr>
<tr>
<td>Turnip</td>
<td>October to May, inclusive</td>
<td>1 oz.</td>
<td>2 lbs. T.</td>
<td>1 in.</td>
<td>6 ozs. T.</td>
</tr>
</tbody>
</table>

Those marked with an (*) may be started in a hot-bed or small paper pots four or five weeks earlier and transplanted outdoors when safe. We recommend paper pots, as they are very cheap and lessen the danger of losing plants in transplanting.

T.—In the quantity column means the quantity of seed required to raise enough plants to transplant an acre.
GARDEN CALENDAR

NOTE.—In all cases read the special instructions for sowing the different kinds of vegetable and flower seeds, which are given under the sowings headings through this catalogue.

JANUARY
Vegetable Garden.—If the ground has not already been worked over this season, spread a good thick dressing of manure and well-rotted compost, work it surface down finely with a rake. Sow beet, early cabbage, carrot, cere, corn, salad, dandelion, endive, kale, kohr rabi, leek, lettuce, mustard, parsnip, spinach, radish, rhubarb, salisify, spinach, turnip, also egg plant, peppers and tomatoes. Plant potatoes, appetus, asparagus, horseradish, rhubarb roots also cabbage plants.

Flower Garden.—If the ground has not been worked over this season, spread a good thick dressing of stable over the surface, and dig as deep as possible, manure, alun, antirrhinum, calendula, celinda, calliopsis, candytuft, centaurea, annual chrysanthemum, clarkia, chrysanthemum, cineraria, cineraria, dielytra, delphinium, muscari, nemophila, nemesia, nigella, psillio, poppy, radish, rhabdocotous, salisify, spinach, tansy, thistle, turnip, viola, scabiosa, verbena and zinnia. This is the best month in which to sow most kinds of tree seeds. Plant gladiolus, begonia, tuberosa and dahila bulbs.

FEBRUARY
Vegetable Garden.—Sow beet, early cabbage, carrot, corn salad, cere, dand Housing, endive, kale, kohr rabi, leek, lettuce, mustard, parsnip, spinach, radish, rhubarb, salisify, spinach, turnip, also egg plant, peppers and tomatoes. Plant potatoes, appetus, horseradish, rhubarb roots also cabbage plants.

Flower Garden.—This is a good month to plant roses and all kinds of ornamental trees and shrubs. Sow acroclinium, alun, antirrhinum, calendula, calliopsis, cosmos, echscholtzia, galls, larkspur, linum, lupinus, mignonette, nemophila, nigella, poppies and sweet peas, in the open ground; also balsam, begonia, gloriosa, lobelia, pyrethrum, scabiosa, verbena, petunia and salvia in seed pans or boxes for transplanting later.

March
Vegetable Garden.—Sow artichoke, asparagus, beans, beets, later cabbage, carrot, celery, chervil, chichory, corn, endive, kale, kohr rabi, leek, lettuce, mustard, parsnip, spinach, radish, rhubarb, salisify, spinach, turnip, also egg plant, peppers and tomatoes. Plant potatoes, appetus, horseradish, rhubarb roots also cabbage plants.

Flower Garden.—Continue to plant roses and ornamental trees and shrubs. Hardy annuals as mentioned February. Sow seeds of annuals in seed pans or boxes, from the early part of this month, also sweet peas. Sow seeds of chrysanthemum, campanula, caryota, coby, dahlia, gloriosa, helianthus, heliotrope, humulus, hennemanilla, lalope, mandlevilia, margold, mina lobata, nasturtiums, paeonia, peonies, petunia, scabiosa, verbena and zinnia. This is the best month in which to sow most kinds of tree seeds. Plant gladiolus, begonia, tuberosa and dahila bulbs.

APRIL
Vegetable Garden.—Sow artichoke, asparagus, beans, beet, brassica sprouts, late cabbage, carrot, celery, chervil, late cauliflower, chichory, corn, dandelion, endive, sweet corn, cere, cucumber, dandelion, endive, kale, kohr rabi, leek, lettuce, musk melon, watermelon, muskmelon, mustard, okra, onion, parsley, parsnip, peas, pepper, potatoes, radish, rhabdocotous, sorrel, spinach, squash, tobacco, tomato and turnip. Plant out cabbage, egg plant, pepper and tomato plants.

Flower Garden.—Sow antirrhinum, aquilegia, aster, balsam, celosia, cocka, morning glory, centaurea, cosmos, cypress vine, dahlia, fuchsia, helianthus, heliotrope, helenium, lathyrus, larkspur, lathyrus, lathyrus, lobelia, salisify, scabiosa, verbena, wallflower and zinnia. Plant out bulbs, lilies, amaryllis, budia bulbs; also chrysanthemum and aster plants.

MAY
Vegetable Garden.—Sow artichoke, asparagus, beans, beet, brassica sprouts, late cabbage, carrot, celery, chervil, chichory, corn, dandelion, endive, sweet corn, cere, cucumber, dandelion, egg plant, endive, lettuce, musk melon, watermelon, muskmelon, mustard, okra, onion, parsley, parsnip, peas, peppers, potatoes, pumpkin, radish, salisify, sorrel, spinach, turnip, tomato and sweet potatoes.

Flower Garden.—Sow amaranthus, aquilegia, bal- sam, celosia, cosus, morning glory, campanula, cypress, echscholtzia, helianthus, humulus, hennemanilla, ipomoea, African and French marigolds, maurandia, minha loba, nasturtium, oriental poppy, portulaca, paeonia, salisify, salisify, scabiosa, verbena, wallflower and zinnia. Plant out bulbs, lilies; also chrysanthemum and aster plants.

JUNE
Vegetable Garden.—Sow beans, beets, brassica sprouts, lettuce, mustard, okra, onion, parsley, peas, pumpkin, radish and spinach. Plant out brassicas, sprouts, cabbage and cauliflower plants.

Flower Garden.—Sow centaurea, cosmos, nasturtium and portulaca. Plant dahlia, chrysanthemum, aster, petunia, pentstemon and salvia plants.

JULY
Vegetable Garden.—Sow beets, brassica sprouts, cress, cucumber, dandelion, endive, kale, kohr rabi, leek, lettuce, mustard, okra, onion, parsley, peas, pumpkin, radish and spinach. Plant out brassicas, sprouts, cabbage and cauliflower plants.

Flower Garden.—Sow cosmos, nasturtium and portulaca seed.

AUGUST
Vegetable Garden.—Sow beans, beets, brassica sprouts, early varieties of cabbage and cauliflower, cress, dandelion, endive, kale, kohr rabi, leek, lettuce, mustard, parsnip, peas, potatoes, radish and spinach; also tomatoes for winter crop in frostless sections. Plant out brassicas, sprouts, cabbage and cauliflower plants.

Flower Garden.—Sow celosia, cineria, pansy, primula, stocks and Christmas flowering sweet peas.

Vegetable Garden.—Sow beets, early cabbage and cauliflower, carrot, corn salad, cere, dandelion, endive, kale, kohr rabi, leek, lettuce, mustard, okra, onion, parsnip, peas, potatoes, radish and spinach, also tomato for winter crop in frostless sections.

Flower Garden.—Sow amaranthus, aquilegia, aster, balsam, celosia, cockscomb, cosmos, cypress vine, dahlia, fuchsia, helianthus, heliotrope, helenium, humulus, helianthus, hennemanilla, lalope, malope, mandlevilia, margold, mina lobata, nasturtium, oriental poppy, portulaca, paeonia, peonies, petunia, scabiosa, verbena, wallflower and zinnia. This is the best month in which to sow hardy annuals in the open ground. Sow acroclinium, alun, balsam, bartonia, calendula, candytuft, annual chrysanthemum, echscholtzia, godetia, larkspur, linum, lupinus, mignonette, nepeta, poppies, sweet peas, pansy and stocks; also California Wild Flowers. Plant hyacinths, tulips, narcissus, jonquillas and other Dutch bulbs.

OCTOBER
Vegetable Garden.—Sow beets, early cabbage, carrot, corn salad, cere, dandelion, endive, kale, kohr rabi, leek, lettuce, mustard, okra, onion, parsnip, peas, potatoes, radish, spinach and turnip.

Flower Garden.—Sow annuals, chrysanthemums and annuals which to sow hardy annuals in the open ground. Sow acroclinium, alun, balsam, bartonia, calendula, candytuft, annual chrysanthemum, echscholtzia, godetia, larkspur, linum, lupinus, mignonette, nepeta, poppies, sweet peas, pansy and stocks; also California Wild Flowers. Continue to plant hyacinths, tulips, narcissus and other Dutch bulbs.

NOVEMBER
Vegetable Garden.—Sow beets, early cabbage, carrot, corn salad, cere, dandelion, endive, kale, kohr rabi, leek, lettuce, mustard, okra, onion, parsnip, peas, potatoes, radish, spinach and turnip.

Flower Garden.—Sow hardy annuals in the open ground, such as acroclinium, alun, bartonia, calendula, candytuft, annual chrysanthemum, echscholtzia, godetia, larkspur, linum, lupinus, mignonette, nepeta, poppies, sweet peas, pansy and stocks; also California Wild Flowers. Continue to plant hyacinths, tulips, narcissus and other Dutch bulbs.

DECEMBER
Vegetable Garden.—Sow this is a good month in which to sow hardy annuals in the open ground. Sow acroclinium, alun, balsam, bartonia, calendula, candytuft, annual chrysanthemum, clarkia, colinlus, cosmos, echscholtzia, godetia, larkspur, linum, lupinus, mignonette, nepeta, poppies, sweet peas, pansy and stocks; also California Wild Flowers. Continue to plant Dutch bulbs and lilies.
Payne’s New Tomato “Victory”
The Most Perfect Tomato Ever Grown

ORIGIN. A cross between Stone and Livingston’s Beauty, followed by several years of careful selection so that it now comes absolutely true to type.

SHAPE. Almost round; the most perfect tomato ever grown; not a bad shaped one in the whole field.

SIZE. Of medium size, averaging about half a pound in weight; very solid and with few seeds.

COLOR. A deep, rich red all over; flesh of the same color.

FLAVOR. All those who have tasted it pronounce it the sweetest and richest flavored tomato they have ever eaten. Contains a higher percentage of sugar content than any tomato on the market.

PRODUCTIVENESS. An extremely heavy bearer. On my own ranch produced at the rate of about 20 tons to the acre, without irrigation, as many as 71 ripe tomatoes appearing on one vine. Those who visited the field said they never would have believed it possible to grow such a crop.

FOR HOME USE. Its rich flavor, prolific qualities and handsome appearance, together with its other good points make it the best tomato for the home garden.

FOR SHIPPING. The very solid flesh and the thickness of the cell walls, together with its size and appearance, make it one of the very best varieties for shipping.

FOR TOMATO PASTE. On account of its thick flesh and deep rich color it should prove one of the very best varieties for making tomato paste.

For Canning. To the canning industry this new tomato should prove a revelation. The very smooth skin, convenient size, solid meat and the thickness of the cell walls, together with its rich color and flavor, give it everything that is necessary to make up the most perfect canning tomato.

PRICE OF SEED Pkt., 15c; ½ oz., 40c; 1 oz., 75c; ¼ lb., $2.00; ½ lb., $3.50; lb., $6.00.

Payne’s Victory

The Famous Riverside Sweet Spanish Onion

While this onion has been on the market for the past two seasons, I have waited until its merits had been established before offering it to the public. The unusual mildness and excellent flavor has made this variety remarkably popular, and the demand for it is large in the vegetable markets all over the United States. It is a good keeper, large, thin straw-colored skin, and so mild that it can be eaten like an apple. This onion commands the highest price in the market and should be planted about the first of February, and will mature in August. It was introduced from Spain four years ago, and is the mildest Spanish onion known. Seed is scarce, but it will be profitable to the grower who plants this variety. Pkt., 10c; oz., $1.00; ¼ lb., $3.50; lb., $10.00.

California Grown Cauliflower

The war has taught us many lessons and opened up many new resources. For years it was considered necessary to import all our cauliflower seed from Europe, but it has now been demonstrated that the best cauliflower seed for Southern California is grown right here at home. Indeed, it is now a fact that about 90% of the cauliflower grown here for market is produced from California grown seed. In view of this fact, I have made arrangements with one of the best growers in Southern California to save seed for me.

CALIFORNIA EARLY GIANT. Large solid heads, the best for early market. Pkt., 10c; ¼ oz., 60c; oz., $2.00; ¼ lb., $6.00; lb., $20.00.

CALIFORNIA SECOND EARLY GIANT. Larger than the preceding, for main crop. Solid heads and well protected by foliage. Pkt., 10c; ¼ oz., 60c; oz., $2.00; ¼ lb., $6.00; lb., $20.00.

CALIFORNIA LATE GIANT. Very large, for late market use. Pkt., 10c; ¼ oz., 60c, oz., $2.00; ¼ lb., $6.00; lb., $20.00.
Choice Vegetable Seeds

ARTICHOKE

Artichoke—Artichoke—Artichaut

Culture.—Sow early in spring in beds or drills and the following season transplant 4 feet apart each way.

LARGE GREEN GLOBE. The standard variety. Pkt. 10c, oz. $1.25, ½ lb. $4.00.

ARTICHOKE PLANTS. See page 17.

ASPARAGUS

Esparago—Sparge—Asparagus.

Culture.—Soak the seed in warm water for 24 hours and sow in drills 14 inches apart; keep well watered and cultivated. The following winter transplant to rows 8 feet apart, placing the plants 18 inches apart in the row. The ground must be well manured and trenched 2 feet deep or more and the plants should be set so that when established the crowns will be 8 inches under the surface.

BARR’S MAMMOTH. The largest green variety. Pkt. 5c, oz. 25c, ½ lb. 50c, lb. $1.50.

GIANT ARGENTÉNUL. A favorite variety in the Paris markets and now in great demand in this country. Of enormous size, tender and of delicious flavor. Pkt. 5c, oz. 25c, ½ lb. 50c, lb. $1.50.

PALMETTO. The standard market variety, bright green color. Pkt. 5c, oz. 25c, ½ lb. 50c, lb. $1.50.

ASPARAGUS ROOTS. See Page 17.

BEANS

Note.—Express or freight charges are not prepaid. Beans can be sent by parcel post at cheaper rates than my "postpaid" price. Where quantities of beans are ordered to be sent by parcel post, remit for the first pound at the "postpaid" rate, to cover postage and packing charges, and for the remainder at the rate quoted by "express" or "freight" and add the correct parcel post charge to your zone. This parcel post charge must be sent additional, or beans will be sent by express. For information, see parcel post schedule on first page of catalogue.
LAZY WIFE. Pods 6 to 8 inches long, produced in clusters, entirely stringless and of a rich, buttery flavor; also a good white shell bean for winter use. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c; 10 lbs. $3.00.

WHITE CREESEBACK. Pods 5 to 6 inches long, deeply creased, silvery green, fleshy, of rich flavor and produced in clusters of from 4 to 10, which mature very evenly. It yields a heavy crop and is a splendid shipper. The seed is white and can be used for winter use as a shelled bean. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c; 10 lbs. $2.75.

SCARLET RUNNER. A favorite variety in English gardens. Prolific and of rich flavor. Also useful as an ornamental vine; flowers are bright scarlet and very showy. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c; 10 lbs. $2.75.

VENTURA WONDER WAX BEANS

LIMA BEANS

Culture.—Lima Beans should not be sown until after the ground is well warmed up in spring. Sow the bush varieties in rows 2 feet apart and the pole kinds in rows 3 feet apart each way.

BURPEE'S BUSH. Large and of fine flavor. A popular variety both for market and home use. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c; 10 lbs. $2.75.

BURPEE'S IMPROVED BUSH. Earlier and more productive than the large bush Lima. Each pod contains 4 to 6 beans. Both the pods and beans are of enormous size. One of the most valuable of late introduction. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c; 10 lbs. $2.75.

FORDHOOK BUSH LIMA. This is a variety of recent introduction, and is the most prolific Lima bean ever grown. It usually grows from 2 to 24 inches high, and bears in clusters of 2 to 5 pods. The beans are round and thick, averaging 4 beans to the pod, of a mild but delicious flavor. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c; 10 lbs. $2.75.

KING OF THE GARDEN—POLE LIMA. Produces pods 5 to 7 inches long, well filled with good-sized beans of rich flavor. It bears heavily and is one of the best for general use. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c; 10 lbs. $2.75.

MONSTROUS BUSH LIMA. This bean, as its name implies, attains a great size. It is the largest of all the limas and is exceedingly prolific as by pruning the bushes at the right season, they can be made to bear at least two crops a year for several years. The beans are exceptionally fine flavored and considered by many to be better than any other Lima bean grown.

Culture. Plant 6 ft. by 6 ft. about the last of April, leaving one plant to the hill. After they come into bearing, they will continue until frost cuts down the tender growth, when they should be pruned similarly to grape vines. Shortly after, new growth will appear which, by early summer, will be producing another crop. Usually the vines will become mildewed. They should be pruned as before and by October the 3rd crop will be ready to pick. Pkt. 10c, ½ lb. 25c, 1 lb. 60c, postpaid; by express or freight, lb. 50c; 10 lbs. $4.50.

ENGLISH OR BROAD BEANS

Haba—Puffbohne—Feve de Marais

Culture.—Plant in fall or early winter in drills 2 inches deep and 2 to 3 feet between the rows, placing the beans 6 inches apart. When in full bloom, plant a few inches off the top of each stem. The plants are quite hardy and bear in winter or early spring. The beans are shelled green and cooked like Lima beans and can be had at a time of year when green Lima beans are not obtainable.

BROAD WINDSOR. An old favorite variety. Pkt. 10c, lb. 30c, postpaid; by express or freight, lb. 20c; 10 lbs. $1.75.

BEET

Remolacha—Rotte Ruebe—Betterave

Culture.—Sow in drills 18 inches apart and cover 1 inch deep. When the plants are large enough thin out to 5 inches apart. Beets can be planted in Southern California the year round. One ounce will sow 50 feet of rows.

CROSBY'S EGYPTIAN. A selection from the Extra Early Egyptian. Slightly more globe shaped than the parent. Flesh deep red and of the finest quality. Considered by many the best beet on the market. Pkt. 5c, oz. 20c, ¼ lb. 45c, lb. $1.25.

DETROIT DARK RED. One of the very best for either market or home use. Tops very small; roots globe shaped, dark red blood, tender and sweet. Pkt. 5c oz. 20c, ¼ lb. 45c, lb. $1.25.

ECLIPSE. Extremely early, round, blood red, small tops. Pkt. 5c, oz. 20c, ¼ lb. 45c, lb. $1.25.

EDMUND'S EARLY BLOOD TURNIP. Of finest quality, extra early. Pkt. 5c, oz. 20c, ¼ lb. 45c, lb. $1.25.

EXTRA EARLY EGYPTIAN. A standard variety for general use. Pkt. 5c, oz. 20c, ¼ lb. 45c, lb. $1.25.

LONG DARK BLOOD. Smooth, dark red, of good size and desirable for light soils. Pkt. 5c, oz. 20c, ¼ lb. 45c, lb. $2.00.

SWISS CHARD OR SILVER. Grown for the leaves which are cooked like Spinach; grows quickly and can be cut often. Pkt. 5c oz. 20c, ¼ lb. 65c, lb. $2.00.

SWISS CHARD, LACULLUS. A superior variety with large, crumpled leaves, very tender and of fine flavor. The stalks are very tasty, ½ inches in diameter, and 10 to 12 inches long below the leaf. These stalks may be cooked and served like Asparagus and are of delicious flavor. Pkt. 5c, oz. 20c, ¼ lb. 65c, lb. $2.00.

STOCK BEETS OR MANGEL-WURZEL

Culture. —Sow in drills 2½ to 3 feet apart and thin out to 12 or 16 inches in the rows. Six pounds per acre.

GOLDEN TANKARD. The favorite variety among dairymen and the best for heavy soil. Oz. 10c, lb. 75c, postpaid; by express or freight, lb. 60c, 10 lbs. $5.50.

IMPROVED MAMMOTH LONG RED. Yields immense roots and succeeds well on light soil. Oz. 10c, ½ lb. 70c, postpaid; by express or freight, lb. 60c, 10 lbs. $5.50.

SUGAR BEETS

Culture.—Sow in drills 18 to 24 inches apart and thin out to 1 foot in the rows. Fifteen pounds per acre.
KLEIN WANZLEBENER. The kind generally grown by sugar beet men and for stock feeding. Oz. 20c, lb. 70c, postpaid; by express or freight, lb. 60c, 10 lbs. $5.50.

GIANT HALF SUGAR ROSE. A cross between sugar beet and mangel. Produces very large roots of the richest quality; especially valuable for stock. Oz. 20c, lb. 70c, postpaid; by express or freight, lb. 60c, 10 lbs. $5.50.

BRUSSELS SPROUTS
Berza de Bruselas—Rosenkohl—Chou de Bruxelles.

Culture.—Sow in spring or summer in seed beds, transplant and cultivate like cabbage. One ounce will sow a bed of 40 square feet and produce 2000 plants.

DWARF IMPROVED. The standard sort. Pkt. 10c, oz. 40c, ¼ lb. $1.35, lb. $4.00.

CABBAGE
Repollo—Kopfkohl—Chou Pomme

Culture.—Sow in seed beds at intervals for succession. The early varieties in August and each month following until April. The Drumhead varieties sow in spring for late crop. Transplant when large enough to rows 2½ feet apart and 1½ feet in the rows for the early sorts, and 3 feet apart each way for the late varieties. Take care to set the stems in the ground up to the first leaf. Cabbage requires a rich, well-manured soil and should be hoed or cultivated frequently, drawing the soil slightly up around the stems. One ounce will sow a bed of 40 square feet and produce 5000 plants.

DANISH BALL HEAD. Of medium size, heads round, very solid and a good shipper. One of the best winter varieties. Pkt. 10c oz. 40c, ¼ lb. $1.35, lb. $4.00.

DRUMHEAD SAVOY. A favorite variety of Savoy or Curled Cabbage. Pkt. 10c oz. 40c, ¼ lb. $1.35, lb. $4.00.

EARLY WINNIGSTADT. The favorite market variety, both for shipping and local sale. Heads cone shaped, solid, of good size and for quality unsurpassed. Pkt. 10c oz. 35c, ¼ lb. $1.20, lb. $3.50.

LARGE LATE DRUMHEAD. A well known late sort producing immense compact heads. Pkt. 10c oz. 35c, ¼ lb. $1.20, lb. $3.50.

PREMIUM FLAT DUTCH. A favorite variety for winter, large and of excellent quality. Pkt. 10c oz. 35c, ¼ lb. $1.35, lb. $4.00.

RED DRUMHEAD. For pickling; large, deep red color. Pkt. 10c oz. 40c, ¼ lb. $1.35, lb. $4.00.

CHINESE CABBAGE. Forms long, compact heads, in appearance more like a Cos lettuce than a cabbage. Leaves thick and fleshy, of fine flavor. Pkt. 10c oz. 35c, ¼ lb. $1.65, lb. $5.00.

If you are a Market Gardener, send me a list of your wants and I will be glad to quote you special Market Gardeners' prices.

CARROT
Zanthonia—Moehe—Carotte

Culture.—The soil best suited for this crop is a light, rich loam. Sow any time from September to end of May in drills 15 inches apart, covering the seed lightly. When the plants are large enough thin out to 5 or 4 inches apart in the rows. One ounce will sow 150 feet of drill. Three pounds per acre.

DANVER'S HALF LONG. A standard variety. Roots about 6 inches long, rich orange color, very symmetrical and handsome. Pkt. 5c oz. 25c, ¼ lb. 45c, lb. $1.25.

EARLY FRENCH FORCING HORN. The smallest and earliest variety grown; much used for forcing. Roots nearly round. Pkt. 5c oz. 25c, ¼ lb. 45c, lb. $1.25.

IMPROVED LONG ORANGE. Very long, handsome roots, of good quality. Valuable for the table and sale for stock feeding. Pkt. 5c oz. 25c, ¼ lb. 45c, lb. $1.25.

LARGE WHITE BELGIAN. Largest of all; grown entirely for stock. Pkt. 5c oz. 25c, ¼ lb. 45c, lb. $1.00.

OXHEART OR GURANDE. The favorite table sort, often called "French Carrot." Roots about 5 inches long and 4 or 5 in diameter at the top, stump rooted, easily pulled and best for heavy soils. Pkt. 5c oz. 25c, ¼ lb. 45c, lb. $1.25.

CAULIFLOWER
Coliflor—Blumenkohl—Choufleur

Culture.—To be successfully grown this crop requires very rich soil and careful cultivation. Sow in seed beds, the early varieties in August and September, and the late ones in spring; transplant and cultivate same as Cabbage. One ounce will sow a bed of 40 square feet and produce 2000 plants.

CALIFORNIA GIANT. See page 4.

DRY WEATHER. An early variety producing large, solid heads, pure white and of the best quality. This variety is particularly adapted to California and the Southwest. Pkt. 25c, ¼ oz. $1.50 oz. $4.50, ¼ lb. $15.00, 1 lb. $45.00.

EARLY DWARF ERFURT. Of dwarf, compact habit, early, a sure header. Pkt. 25c, ¼ oz. $1.00, oz. $2.00, ¼ lb. $10.00, lb. $35.00.

HENDERSON'S EARLY SNOWBALL. The most popular variety, very early and reliable header. Pkt. 25c, ¼ oz. 50c, ¼ lb. $2.50, ¼ lb. $10.00, lb. $35.00.

LARGE ALGERS. A favorite late variety, very large heads. Pkt. 10c oz. 1.50, ¼ lb. $5.00.

VEITCH'S AUTUMN GIANT. A large, late variety which thrives well in this section. The heads are solid, compact and well protected by the foliage. Pkt. 10c oz. 1.35, ¼ lb. $4.00.
CELEBRITY

Culture. —Sow early in spring in beds of rich, mellow soil, covering the seed very lightly. When 4 inches high, prick out 4 inches apart, and when large enough transplant in well-manured furrows, 4 feet apart, and about 8 inches deep. Place the plants 6 inches apart in the rows, and as the plants grow gradually fill up the furrows with earth to bleach the stalks.

GOLDEN SELF-BLANCHING. (French-grown seed.) This seed is imported from France, from a most reliable grower, and is the best strain offered. A favorite market variety; blanches perfectly, is tender, entirely free from string and has a rich, nutty flavor. Pkt. 10c, oz. 35c, ½ lb. $1.50, lb. $3.50.

WILD TURNIPS. Long, thin, and very good. Pkt. 10c, oz. 35c, ½ lb. $1.50, lb. $3.50.

CHAYOTE

Culture. A rapid growing perennial vine, valuable for covering fences, sheds, etc., growing thirty feet or more in one season. It produces large quantities of fruit, which are cooked like summer squash, or fried like eggplant. Each fruit contains one seed, which sprouts right out of the fruit, and the vine is propagated by planting the whole fruit in the ground. Supplied from December to March. Sprouted, each, 25c. (By mail 35c.)

CORN SALAD

Maça o Valerianilla—Lammer Salt—Mache

Culture. Commonly called Lamb's Lettuce. Can be sown nearly all the year round in California. Sow in shallow drills 1 foot apart. LARGE HOUND LEAVED. Pkt. 10c, oz. 30c, ½ lb. $1.00, lb. $5.00.

CORN

SWEET OR SUGAR

Maiz—Welskorn—Maïs

Note. Express or freight charges are not prepaid. Sweet corn can be sent by parcel post at cheaper rates than my "postpaid" price. Where quantities of sweet corn are ordered to be sent by parcel post, remit for the first pound at the "postpaid" rate, to cover postage and packing charges, and for the remainder at the rate quoted by "express in freight," and adopt in correct parcel post charge to your zone. This parcel post charge must be sent additional, or corn will be sent by express. For information, see parcel post schedule on first page of catalogue.
Culture. Sow any time from March to end of June, in drills or hills. The smaller varieties may be planted in drills 1 foot apart, and 1 inch or in hills 3 feet apart each way, covering the seed about 3 inches deep. The taller varieties, 4 feet by 15 inches, or in hills 4 feet apart each way, Corn thrives best in a rich, warm soil; use some well rotted manure, and cultivate well so as to keep the ground loose, and draw it up slightly around the roots.

BLACK MEXICAN. The kernels are white when young or at the age when suitable for cooking, but when ripe and dry turn to a bluish black color. Thrives well in this climate; is very productive and the sweetest corn grown. Pkt. 10c, lb. 40c postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

COUNTRY GENTLEMAN. A favorite for home use. It is a very small cob, closely covered with deep, narrow kernels, which are extremely tender and sweet. Ears average 8 to 9 inches in length and from 3 to 4 on a stalk. Pkt. 5c, lb. 40c postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

EARLY MINNESOTA. The standard early variety, productive and of good quality. Pkt. 10c, lb. 40c postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

EXTRA EARLY ADAMS. Not a true sweet corn, but on account of its hardness and earliness it is largely planted for table use. Pkt. 10c, lb. 40c postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

GOLDEN BANTAM. An extra early dwarf variety. Ears of medium size, thickly set with rich yellow kernels of a most delicious flavor. This variety has become a general favorite on account of its earliness, hardness and extra fine quality. Pkt. 10c, lb. 40c postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

OREGON EVERGREEN. This is without doubt the best sweet corn ever grown, and is a great favorite among market growers in this section. It is very productive, bearing long well-filled ears, and is of a particularly fine flavor. Many varieties of sweet corn do not thrive as well in California as in the East, and it has sometimes been said that good sweet corn is not to be had here. This variety, however, seems particularly adapted to our local conditions, and produces ears of the very finest quality. Pkt. 10c, lb. 40c postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

STOWELL'S EVERGREEN. The standard late variety for home and market use. Grows tall and remains green longer than any other sort. The ears are large and grains exceedingly deep and sweetly flavored. Pkt. 10c, lb. 40c postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

CRESS OR PEPPER GRASS

Berro o Masticuro—Kresse—Cresson

Culture. Sow thickly, broadcast in small beds or in drills 1 foot apart, at frequent intervals for a succession. It will be ready to cut in about three weeks. Succeeds best during winter and spring, but may be grown in summer if sown in a cool, shady place.

EXTRA CULLED. Leaves curled, crisp and pungent. Pkt. 5c, oz. 20c, 1/2 lb. 50c, lb. $1.50.

WATER CRESS

Berro—Brunnenkresse—Cresson de fontaine

Culture. Sow the seed by the side of running water or in a damp place.

WATER CRESS. Pkt. 10c, oz. 60c, 1/2 lb. $2.00.

CUCUMBER

Pepino—Gurke—Concombre

Culture. As soon as the weather becomes warm and settled commence sowing for the early crop; later plantings may be made up until August. Select good, rich, mellow soil, and sow in hills 4 feet apart each way, 8 to 10 seeds in a hill, covering 1 inch deep with well pulverized soil. After danger from insects is over, thin out to the four strongest plants. One ounce will plant 50 hills, or 2 pounds to one acre.

ARLINGTON WHITE SPINE. A favorite for early crop coming two weeks earlier than the White Spine. Very uniform in shape and productive. Pkt. 5c, oz. 20c, 1/2 lb. 65c, lb. $2.00.

BRIGHTON. A favorite for pickling, also good for slicing. Dark green, straight and well formed. Pkt. 5c, oz. 20c, 1/2 lb. 65c, lb. $2.00.

CUMBERLAND. A distinct sort, desirable either for pickling or preserving. When fully grown the fruit averages 10 to 12 inches in length and 2 1/2 inches in diameter, with full rounded ends. Pkt. 5c, oz. 25c, 1/2 lb. 85c, lb. $2.50.

DANDELION

Amargon—Kuhblume—Pissellit

Culture. May be grown any time, in drills 12 inches apart, covering the seed very lightly. Much esteemed as a salad.

IMPROVED LARGE LEAVED. Pkt. 10c, oz. $1.50.
**EGG PLANT**

*Berengena—Eierpfanne—Aubergine*

Culture. Sow from February to June in rich soil composed of leaf mold and sandy loam. The earlier sowings should be in a hot bed; the seed germinates very slowly, and should be kept in a warm, even temperature. When 2 or 3 inches high, transplant into small pots and place in a frame, gradually harden off, and when the weather is warm and settled transplant to the open ground. Select light, rich soil, and plant 4 feet apart each way; when about 1 foot high draw the earth up slightly around the roots.

New York Improved Egg Plant

**BLACK BEAUTY.** Large, rich, dark purple, very early. Pkt. 10c, oz. 75c, ¼ lb. $2.50, lb. $7.50.

**NEW YORK IMPROVED PURPLE.** The leading variety both for market and home use. Pkt. 10c, oz. 75c, ¼ lb. $2.50, lb. $7.50.

French Moss Curled Endive

**ENDIVE**

Escarola o Endibia—Endivien—Chicoree

Culture. May be sown in drills 15 inches apart any time during the year. When a few inches high, thin out the plants to 10 inches apart, or transplant to other rows. As soon as the plants have reached a good size, gather the ends of the outer leaves together and tie at the top so as to blanch the inside leaves. One ounce will sow about 150 feet of drill.

**BROAD LEAVED BATAVIAN.** (Scarolee.) Leaves light green, broad and nearly plain. When blanched, makes an excellent salad. It is also used for flavoring soups and stews, and is sometimes cooked as greens. Pkt. 5c, oz. 20c, ¼ lb. 65c, lb. $2.00.

**FRENCH MOSS CURLED.** (Chicoree Frisée.) Leaves deeply cut and curled, giving it a moss-like appearance. Pkt. 5c, oz. 20c, ¼ lb. 65c, lb. $2.00.

**KALE OR BORECOLE**

Col—Blatetterkohl—Chou Vert

Culture. Sow the seed in beds from July to March; when large enough, transplant to rich, mellow ground and cultivate same as Cabbage. One ounce of seed will produce 2000 plants.

**DWARF GREEN CURLED.** (German Greens.) Leaves bright green, tender and of fine flavor. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.

**ALL GREEN CURLED SCOTCH.** Grows from 1 ½ to 2 feet high; the variety most generally used. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.

**JERSEY OR TREE KALE.** A tall growling variety with smooth leaves. Used for poultry and stock food. Pkt. 5c, oz. 20c, ¼ lb. 45c, lb. $1.25.

**KOHL RABI**

Collanbo—Kohribi—Chou rave

Culture. Sow in drills 2 feet apart any time from July to April. When large enough, thin out to 1 foot apart in the rows. One ounce will sow 150 feet of drill.

**EARLY WHITE VIENNA.** Greenish white outside, flesh white and tender. Pkt. 5c, oz. 30c, ¼ lb. $1.00, lb. $3.00.

**EARLY PURPLE VIENNA.** Similar to the above, but of purple color. Pkt. 5c, oz. 30c, ¼ lb. $1.00, lb. $3.00.

**LEEK**

Puerro—Lauch—Poleau

Culture. Sow in good rich soil any time from September to April in drills 15 inches apart and ½ inch deep, and thin out to 10 inches apart. One ounce will sow 100 feet of drill.

**LARGE MUSSELBURG.** A favorite Scotch variety. Pkt. 5c, oz. 35c, ¼ lb. $1.15, lb. $3.50.

**LONDON FLAG.** Large and uniform in shape. A popular market sort. Pkt. 5c, oz. 35c, ¼ lb. $1.15, lb. $3.50.

**LETTUCE**

Laitue—Sallatte—Laitue

Culture. Can be sown at any time in California. In drills 15 inches apart, covering the seed very lightly; when large enough, thin out to 1 foot apart in the rows. Or the seed may be sown in beds and transplanted. The latter is preferable for summer planting, as the seed requires a great deal of moisture to germinate, and when sown in a bed it can be kept moist by spreading burlap or sacks over the surface of the ground and sprinkling well twice a day; after the seed is germinated the sacks may be removed, but care must be taken to keep the plants well watered. One ounce will produce about 3000 plants.

**BIG BOSTON.** One of the best for California; succeeds well under great variations of temperature. Heads large, solid, crisp and tender. Pkt. 5c, oz. 25c, ¼ lb. 65c, lb. $2.50.

**BLACK SEEDED SIMPSON.** Forms large, loose heads of thin, tender, golden yellow leaves. One of the best curled varieties and stands the heat well. Pkt. 5c, oz. 25c, ¼ lb. 65c, lb. $1.50.

**CALIFORNIA CREAM BUTTER.** Stands the summer heat well, grows slowly and forms a very solid head, remaining fit for use for a long time. The outside leaves are slightly marked with brown, while inside the leaves are rich creamy yellow. Pkt. 5c, oz. 25c, ¼ lb. 65c, lb. $1.50.

**EARLY CURLED SIMPSON.** Large, curly leaves, forms large, loose heads; a favorite early sort. Pkt. 5c, oz. 25c, ¼ lb. 65c, lb. $1.50.

**ICEBERG.** A popular summer variety; heads well, even in the hottest weather; large, crisp and remarkably solid. Pkt. 5c, oz. 25c, ¼ lb. 65c, lb. $2.00.
IMPROVED HANSON. Large, solid heads; leaves bright green on the outside, white within; crisp and tender. A favorite market sort. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $2.00.

LOS ANGELES MARKET, OR NEW YORK SPECIAL.
This lettuce is largely grown by market gardeners, and is the best selling lettuce in the Los Angeles market, while large quantities are shipped to other points as far north as Portland and east to Salt Lake City and Denver. It forms a very large, perfectly solid head. The outer leaves are green, but after stripping these off there remains a large, white, solid head, which is very crisp and tender. Pkt. 10c, oz. 30c, ¼ lb. $1.00, lb. $8.00.

PARIS WHITE COS. (Romaine.) Long, smooth leaves, remarkably crisp and tender. The outer leaves should be drawn together and tied at the tips about 10 days before cutting, in order to blanch the inside leaves. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. $1.75.

PRIZEHEAD. Forms large, loose heads, remaining crisp and tender a long time; leaves slightly tinged with red. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.

TENNIS BALL. (Black Seeded.) One of the earliest heading varieties, similar to Boston Market. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.

MELOM—MUSK
Melon Almizculeno—Cantaloupe—Muskmelon

Culture. May be planted from March to end of June. Select light, warm soil and plant in hills 6 feet apart each way, from 6 to 8 seeds in a hill and 1 inch deep. When large enough, thin out to the three strongest plants. One ounce will sow about 100 hills.

BURRELL’S GEM. Oval, of medium size and deeply netted. The flesh is salmon-colored and of the finest flavor. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.

EXTRA EARLY HACKENSACK. Large, nearly round, deep ribbed, and very thickly netted; flesh green, solid, and of a delicious flavor. A popular sort, nearly two weeks earlier than the Large Hackensack. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.

GAUTIER’S PINEAPPLE. This is the favorite melon on the Los Angeles market. Oval, skin thickly netted; flesh green and of delicious flavor. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.75.

HONEY DEW. This new melon is the latest and best development in melon culture. Outer skin smooth, hard and creamy white, flesh light green, very solid and of rich honey flavor. Pkt. 10c, oz. 25c, ¼ lb. 55c, lb. $2.50.

LARGE HACKENSACK. Round, flattened at the ends, skin green and thickly netted; flesh green and of a rich, sugary flavor. Very popular among market growers and sometimes called Turk’s Cap. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.

PERSIAN. New yellow-fleshed variety, sweet distinct flavor. Heavily netted but smooth rind. Good keeper and a money maker. Pkt. 15c, oz. 50c, ¼ lb. $1.65, lb. $8.00.

TIP TOP. Almost round, of medium size. Flesh yellow, firm and of delicious flavor, edible almost to the rind. A melon of attractive appearance, selling quickly in all the markets. Pkt. 10c, oz. 25c, ¼ lb. 55c, lb. $2.50.

Rocky Ford. Slightly oval in shape, finely netted, very regular and even in size, weighing about 1½ pounds; flesh light green in color and of delicious flavor. A popular early sort, named after Rocky Ford, Colorado, but now grown in immense quantities in the Coachella and Thermal districts, producing the earliest melons in the United States and shipped east by the carload. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.

CASABA VARIETIES
Casaba, or Winter Pineapple. Large, oval, skin corrugated, grayish green color; flesh firm, light green and of a delicious pineapple flavor. A very late variety; the melons do not usually ripen on the vines, but should be picked and stored in a cool, dry place, and if carefully handled may be kept till late in the winter. Pkt. 10c, oz. 25c, ¼ lb. 55c, lb. $2.50.

Golden Beauty Casaba Melon

Golden Beauty, Similar to the Winter Pineapple, but of a beautiful golden-yellow color. It is a good keeper, and on account of its handsome appearance it is one of the best of the winter melons for market purposes. Pkt. 10c, oz. 25c, ¼ lb. 55c, lb. $2.50.

Improved Hybrid Casaba. Deep green and heavily ribbed, of medium size; flesh thick and of a fine quality. Pkt. 10c, oz. 25c, ¼ lb. 55c, lb. $2.50.

Santa Claus. A very late variety. Oblong, mottled yellow and green, flesh light green and of rich flavor. Pkt. 10c, oz. 25c, ¼ lb. 55c, lb. $2.50.
MELON—WATER
Sandía—Wassermelone—Melon d'Eau

Culture. Plant from March to July, in good, light, sandy loam, in hills 3 to 10 feet apart each way and from 10 to 12 seeds in a hill; cover the seed from 1 to 2 inches deep, but not more. When large enough, thin out to the strongest plants.

ANGELENO. Of medium size, dark green, flesh dark red, crisp and very sweet. A good shipper and one of the best market varieties. Pkt. 5c, oz. 20c, 1 lb. 70c.

CHILIAN. Of medium size, almost round, dark green, slightly mottled with blackish green, rind thin, not over a quarter of an inch thick, but very hard and never cracks in shipping. Flesh solid, crisp and deep crimson clear through. This is the favorite Los Angeles market melon. Pkt. 5c, oz. 20c, 1 lb. 50c.

BLACK SEEDED CHILIAN. This is preferred by some to the preceding variety, and is considered a little earlier. Pkt. 5c, oz. 20c, 1 lb. 50c.

CUBAN QUEEN. Oblong, striped dark and light green, rind thin, flesh bright red. A good shipping sort. Pkt. 5c, oz. 20c, 1 lb. 40c.

GEORGIA RATTLE SNAKE, OR GYPSY. A popular Southern variety. A large, long melon, light green with dark green stripes, flesh scarlet, crisp and juicy. Pkt. 5c, oz. 20c, 1 lb. 40c, lb. 1.50.

KLECKLEY SWEET. One of the finest melons for home use. Oblong in form, 18 to 20 inches long and 10 to 12 inches in diameter. Skin dark, rich green, flesh bright red, ripening close to the rind. Pkt. 5c, oz. 20c, 1 lb. 40c, lb. 1.25.

KLONDYKE, OR PASADENA. Of recent introduction and a great favorite in the Pasadena market. Oblong, dark rich green, flesh bright red, very crisp and sweet. Pkt. 10c, oz. 25c, 1 lb. 85c, lb. 2.50.

YELLOW-FLESHED ICE CREAM. Quite distinct from any other variety. Longer and longer, rind thin, about two inches thick, with a mottled, rich, sugary flavor peculiar to itself; entirely free from fibrous substances, melting like ice cream. Pkt. 5c, oz. 20c, 1 lb. 50c.

MUSHROOM SPAWN
Seta—Schwamm—Champignon

Culture. Mushrooms can be grown in cellars or sheds, where a temperature of 60 to 70 degrees can be maintained. Procure some good rich loam and some fresh horse manure, and mix thoroughly together, using two-thirds of the horse manure and one-third of the loam. Make a bed of this mixture about 18 inches deep, which should be pressed down firmly. As soon as the temperature of this bed falls to about 70 degrees the spawn may be inserted in pieces about one inch square. Cover the spawn with good loam about two inches deep and press down firmly. Cover this over with a layer of loose straw. If the conditions are right the mushrooms should appear in from six to eight weeks.

ENGLISH MUSHROOM SPAWN. In bricks of about 1 lb. Per brick 30c (by mail 40c).

MUSTARD
Mustaza—Scent—Montarde
By mail add 10c per lb. for postage.

Culture. Sow in drills 1 foot apart at frequent intervals for succession. Used for greens and cooked like Spinach, sometimes cut when about 6 inches high and used as a salad, generally with Cress.

BROWN OR BLACK. The common Mustard, much used for greens. The seeds are also used in pickles. Pkt. 5c, oz. 25c, 1 lb. 40c.

SOUTHERN CURLED. Very large leaves, often 15 inches in length; the best sort for greens. Pkt. 5c, oz. 20c, 1 lb. 40c.

WHITE LONDON. The best variety for salads, also used for greens. Pkt. 5c, oz. 15c, 1 lb. 25c.

OKRA
Quinombó—Essbarer—Gombo

Culture. Sow from March to July, in drills 3 feet apart, covering the seed 2 inches deep; thin out the plants to 10 inches apart in the rows, cultivate well, and draw the earth up slightly around the stems. One ounce of seed will sow 50 feet of row.

EARLY DWARF. Of dwarf, stocky growth, very prolific, producing pods 10 days earlier than the tall varieties. Pods long and smooth. Pkt. 5c, oz. 20c, 1 lb. 45c, lb. 1.25.

LONG GREEN. Plants of tall growth, pods long and slightly ribbed. Pkt. 5c, oz. 20c, 1 lb. 45c, lb. 1.25.

WHITE VELVET. Of tall growth: long, round, smooth pods with a whistling, velvety covering. The favorite variety for pickling. Pkt. 5c, oz. 20c, 1 lb. 45c, lb. 1.25.
AUSTRALIAN BROWN. A favorite market sort of good size and shape; very hardy, early, productive, and the best keeper. The skin is thick and of a rich brown color; flesh solid and of mild flavor. Pkt. 5c, oz. 25c, ½ lb. 60c, lb. $1.75.

CRYSTAL WAX. A pure white variety of the Bermuda type, very flat and extremely early. On account of its handsome appearance, earliness and mild flavor it is in great demand by market growers. Pkt. 10c, oz. 50c, ¼ lb. $1.35, lb. $5.00.

LARGE RED WETHERSFIELD. Large, slightly flattened, deep purplish red, flesh firm and thick. This is the best known of the red varieties and largely planted. It is a heavy cropper and an excellent keeper. Pkt. 5c, oz. 25c, ¼ lb. 60c, lb. $2.50.

MAMMOTH SILVER KING. A large, early white, flat variety of mild flavor. Valuable for the home garden and nearby market, but is not a good shipping or keeping sort. Pkt. 10c, oz. 10c, ¼ lb. $1.00, lb. $5.00.

PRIZETAKER. A globe-shaped onion, with light yellow skin and white flesh of a mild flavor. It is popular as a market variety, a fairly good keeper, and an immense yielder; onions often weigh two or three pounds, and have been known to weigh as much as four pounds. Pkt. 10c, oz. 25c, ¼ lb. 60c, lb. $2.50.

SOUTHPOR T WHITE GLOBE. Pure white, mild flavor, a good keeper and very productive. Best variety for bunch onions. Pkt. 10c, oz. 25c, ¼ lb. $1.35, lb. $4.00.

WHITE BERMUDA. This is the standard early market variety and is now grown in immense quantities in the Coachella Valley for early and extremely early. On account of its handsome appearance, earliness and mild flavor it is in great demand by market growers. Pkt. 10c, oz. 10c, ¼ lb. $1.35, lb. $2.50.

WHITE PORTUGAL, OR SILVER SKIN. A very popular variety, both for market and home use. It is of attractive appearance, flattened, but quite thick; skin silvery white and very thin; flesh firm, snowy white and mild. A good keeper and heavy yielder; onions of large size. Also one of the best for pickling. Pkt. 10c, oz. 10c, ¼ lb. $1.35, lb. $4.00.

YELLOW GLOBE DANVERS. An old standard market variety. Large, globe-shaped; skin brownish-yellow. Flesh white and firm; a good yielder and remarkably good keeper. Pkt. 5c, oz. 25c, ¼ lb. 60c, lb. $2.50.

Champion Moss Curled. Beautifully curled leaves, deep, rich green. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. $1.75.

HAMBURG, OR TURNIP-ROOTED. A plain-leaved variety, forming large roots which are used for flavoring soups etc. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. $1.75.

Parsnip
Chitriuva—Pastinaca—Pannis
Culture. Sow from September to May, in deep, rich soil, in drills 16 inches apart, and cover the seed about half an inch deep. When the plants are 2 or 3 inches high, thin out to about 5 inches apart in the rows. One ounce of seed will sow 100 feet of row, or 5 pounds to the acre.

Hollow Crown. The standard sort. Pkt. 5c, oz. 30c, ¼ lb. $1.00, lb. $3.00.

Southport White Globe Onions

ONION SETS
By mail add 10c per lb. for postage.
Australian Brown, White and Yellow Sets. Per lb. 30c. (by mail, 40c). Price on large quantities on application.

Parsley
Perill—Pastelure—Persil
Culture. May be sown the year round in California. Sow in good, rich soil, in drills 16 inches apart, covering the seed about half an inch deep. When the plants are 2 or 3 inches high, thin out to 4 inches apart. One ounce will sow 100 feet of drill.

Plain or Single Leaf. Excellent flavor, extensively grown for market. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.75.

Telephone Peas

PEAS
Chicharos o Guisantes—Erbsen—Pois
Note. Express or freight charges are not prepaid. Peas can be sent by parcel post at cheaper rates than my "postpaid" price. Where quantities of peas are ordered to be sent by parcel post, remit for the first pound at the "postpaid" rate, to cover postage and packing charges, and for the remainder at the rate quoted by "express" or "freight," and add the correct parcel post charge to your zone. This parcel post charge must be sent additional or peas will be sent by express. For information, see parcel post schedule on first page of catalogue.

Culture. May be sown the year round in California. They will grow in almost any soil, but a deep, rich loam is best for main crop; the early varieties for winter will do best on a light, warm soil; deep plowing of the ground is essential. They are sown in single or double rows from eighteen inches to 4 feet apart, according to the height of the variety. The tall sorts should have sticks to climb over. For the field crop it requires from 60 to 80 pounds to the acre; for home "4-lb. plant one pound to 60 feet of row.
FIRST EARLY VARIETIES

AMERICAN WONDER. Extra early, dwarf, compact grower, wrinkled peas of the finest quality. Height 1 foot. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 50c, 10 lbs. $2.75.

PREMIUM GEM. A popular early dwarf wrinkled variety, it grows about 13 inches high and bears a heavy crop of good-sized pods filled with 6 to 8 peas of the finest quality. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

GRADUS, OR PROSPERITY. The finest early pea yet introduced. Almost as early as American Wonder, but dwarf and produces very long pods filled with 8 to 10 peas of delicious flavor. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

SECOND EARLY VARIETIES

ADIMARL OR SENATOR. A new sort introduced on our local market about three years ago. It is a good second early pea, has thick green foliage, and bears abundantly. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

STRATAGEM. One of the best peas in cultivation; pods large and well filled; of the finest flavor. Grows about 2 1/2 feet high. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

LATE VARIETIES

ALDERMAN. Of recent introduction; grows about 6 feet high; pods dark green, always well filled with large peas of high quality. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

CHAMPION OF ENGLAND. Grows from 4 to 4 1/2 feet high; very productive and unsurpassed in quality. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

TELEPHONE. A late variety; grows 5 feet high, produces very long pods, well filled with 8 or 9 large peas of the finest quality. Pkt. 10c, lb. 40c, postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

PEPPER

Pimiento—Pfeffer—Piment

Culture. Can be sown from the middle of January to the end of June. Sow the seed in boxes of light, rich soil, and keep in a frame or on a hot bed. When the seedlings are large enough, gradually harden off, and plant out in the open ground as soon as the weather has become settled, and plenty of rain and settled, planting the plants in rows 2 feet apart and 1 1/2 feet apart in the row. One ounce of seed should produce about 1000 plants.

ANAHEIM CHILL. In great demand locally; similar to the million dollar chill, but larger. Pkt. 10c, oz. 86c, 1/4 lb. $1.65, lb. $5.00.

CHINESE GIANT. Of very large size, averaging 10 to 1 1/2 inches in circumference. One of the best for stuffing; flesh thick, tender and mild. Pkt. 10c, oz. 86c, 1/4 lb. $2.65, lb. $8.00.

LARGE BELL, OR BULL NOSE. Large, early and very productive. Flesh thick and mild, much used for stuffing. Pkt. 10c, oz. 86c, 1/4 lb. $2.65, lb. $8.00.

LONG RED CAYENNE. Pods small, long and pointed, coral red when ripe. Very strong and pungent; largely used for seasoning pickles. Pkt. 10c, oz. 86c, 1/4 lb. $2.65, lb. $8.00.

MEXICAN CHILLI. The well-known “Chilli” used so much in tamales and Spanish dishes. Beautiful dark red pods, 4 to 6 inches long, very hot. Pkt. 10c, oz. 50c, 1/4 lb. $1.65, lb. $5.00.

PIMENTO. One of the finest peppers of mild flavor that has yet been grown. It lends itself to a variety of uses, on account of its beauty, firmness and attractive shape. It makes an unusually pretty salad, being smooth and bright in color, and can be either canned or stuffed most satisfactorily, as it is firm and meshy. Pkt. 10c, oz. 86c, 1/4 lb. $2.65, lb. $8.00.

RUBY KING. Large, bright glossy red, mild and sweet. Much used for stuffing and for slicing in salads. Pkt. 10c, oz. 86c, 1/4 lb. $2.65, lb. $8.00.

SWEET MOUNTAIN. A large late variety, bearing fruit often 8 inches long and 2 inches in diameter. Deep glossy red, mild and sweet. One of the best for stuffing. Pkt. 10c, oz. 86c, 1/4 lb. $2.65, lb. $8.00.

POTATOES

Patatas—Kartoffeln—Pommes de Terre

Culture. Potatoes succeed best in a good, rich, well-drained, sandy loam, and may be planted any time from August to May. It requires about 400 pounds of good-sized potatoes to the acre.

EARLY ROSE, WHITE ROSE, TRIUMPH OR SIX WEEKS AND BURBANK

Prices on application.

PUMPKIN

Calabaza—Kuerbis—Courge

Culture. Sow from April to July in hills 8 feet apart each way and 3 or 4 seeds to a hill. One ounce will sow about 20 hills or 2 pounds to one acre.

CHEESE. Large, reddish orange, flesh thick and sweet. A good keeper. Pkt. 5c, oz. 25c, 1/4 lb. 55c, lb. $1.00.

CUSHAW. (Crook-necked.) Light cream color. A good keeper, flesh solid and sweet. Pkt. 5c, oz. 25c, 1/4 lb. 55c, lb. $1.50.

MAMMOTH TOURS, OR JUMBO. (King of Mammoths.) Grows to an immense size, often weighing 150 pounds or more. Skin orange-salmon, flesh bright yellow, fine grained, tender and sweet. Valuable for cereal and for stock feeding. Pkt. 5c, oz. 25c, 1/4 lb. 55c, lb. $1.50.

QUAKER PIE. Of medium size, slightly oval, skin rich creamy buff, flesh fine grained and of rich flavor. A good keeper. Pkt. 5c, oz. 25c, 1/4 lb. 55c, lb. $1.50.

FIELD PUMPKIN

CALIFORNIA FIELD. The well-known Field Pumpkin so largely grown for stock. Varies in color from yellow, orange, red to drab. Very large and a heavy bearer. Pkt. 5c, oz. 25c, 1/4 lb. 55c, lb. $1.25.

LARGE SWEET FIELD. Very large, a favorite variety in this section, heavy yielder and good for stock feeding or for pies. Pkt. 5c, oz. 25c, 1/4 lb. 45c, lb. $1.25.

RADISH

Rabano—Rettig—Radis

Culture. May be sown the year round in California. They can be grown in any good garden soil, but thrive best in a light loam enriched with plenty of good rotten manure. Sow in drills 12 inches apart. One ounce of seed will sow 100 feet of drill.
CHARTIER. A long variety and very attractive. The color is a rosy scarlet, shading to white at the tip. It is larger than the Long Scarlet, and keeps hard and crisp for a long time. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. $1.50.

CRIMSON GIANT TURNIP. A new variety, more than twice the size of the Scarlet Turnip. It matures early, flesh white, crisp and solid. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. $1.50.

EARLY LONG SCARLET SHORT TOP. An old standard variety; grows to about 8 inches long; color bright carmine; flesh firm and brittle; has very small top. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. $1.50.

FRENCH BREAKFAST. A popular early variety and one of the best for forcing. Grows about 2 inches long and turns roots. The top part of the root is bright rose and the lower part white. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. $1.50.

ICICLE. A white variety; grows about 6 inches long, very brittle and of mild flavor. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. $1.50.

LONG BLACK SPANISH. A large winter radish, skin almost black; flesh white and solid. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. $1.50.

SCARLET TURNIP. A very popular early sort. Roots scarlet, turnip-shaped, crisp and of good flavor. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. $1.50.

WHITE STRASBURG. A large late summer variety; broad, and tapering down to a point. Flesh firm and solid, and keeps crisp for a long time. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. $1.50.

Rhubarb—Pie Plant

Rhubarbo—Rhabarber—Rhubarbe

Culture. Sow from February to end of April in drills 18 inches apart covering the seed about 1 inch deep. When large enough, thin out to 6 inches apart in the rows. Turn the plants over following spring or for spring to deep, rich, well manured soil, placing the plants 4 feet apart each way.

BURBANK'S NEW EVERBEARING OR CRIMSON WINTER. The most valuable variety ever introduced. It is practically everbearing, and a supply can be had all through the winter when the other varieties are dormant. The stalks are medium sized, rich crimson and of delicious flavor. It grows very quickly, and is extremely productive. Pkt. 10c, oz. 75c, ¼ lb. 2.50, lb. $7.50.

VICTORIA. A standard variety; stalks large and of fine flavor. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. $2.00.

WAGNER'S GIANT CRIMSON WINTER. A superior variety, producing stumps twice as large as those of the ordinary Crimson Winter, and has been known to produce as high as 50 tons to the acre. It is unsurpassed in flavor, and is now in great demand on the local market. Pkt. 15c, oz. 1.50, ½ lb. $3.00.

Rhubarb Roots. See page 17.

Roselle

Sorrel

Acedaria—Sauerampfer—Osillole

Culture. Sow in spring, in drills 15 inches apart, in an open and garden soil. The plant is perennial, and be taken up every few years and divided. The flower stems should be kept cut off as they appear. The leaves are cooked like spinach, and are also used in soups.

Spinach

Esphinas—Spinat—Épinard

Culture. Can be sown the year round in California, in drills 16 inches apart. One ounce of seed will sow 60 feet of row, or 12 pounds to one acre.

Prickly or Winter. The hardest variety and the one generally grown for market. Large, smooth leaves shaped like an arrow point. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. 90c.

Long Standing. Leaves large, thick, and crumpled. Very hardy. Adapted to either spring or winter sowing. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. 90c.

Round or Summer. Large, thick, smooth leaves, rounded at the ends. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. 90c.

New Zealand. Produces large leaves, of thick, fleshy texture. Pkt. 15c, oz. 25c, ¼ lb. 75c, lb. $2.50.

Squash

Calabacera—Kuerbis—Courge

Culture. As soon as the weather has become warm and settled, commence sowing for the early crop. The summer varieties mature much quicker than the winter varieties, and sowing for late crop may be continued up until the first of August. Sow in hills 4 to 5 feet apart, using 6 or 7 seeds to a hill, and afterwards thin out to the three strongest plants. One ounce of seed will sow about 40 hills, or 2 pounds to 1 acre. The winter varieties take longer to mature, and the later plantings should be completed by about the first of July. Sow in hills 8 to 10 feet apart, using 3 seeds to a hill. One ounce will sow about 20 hills, or 2 pounds to one acre.

Summer Varieties

Banana. Grows from one to two feet long. Skin varies from bright yellow to olive green. Excellent quality, very sweet. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $2.50.

Early White Bush Scallop. Very early, creamy white, flat and scalloped; 4 to 6 inches in diameter; exceedingly prolific. Pkt. 5c, oz. 20c, ¼ lb. 45c, lb. $1.25.

English Vegetable Marrow. Large, oblong, pale green, grows from 12 to 18 inches long. Makes a large vine, and should be planted 1 or 2 feet apart. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.

Italian or Zucchini. A bush squash of great merit; rich creamy flavor, and high in vitamins; bears heavily. Pkt. 15c, oz. 25c, ¼ lb. 50c, lb. $2.00.

Summer Crook-Neck. Long, with crooked neck; bright golden yellow, thickly warty; very rich flavor. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.

Salsify or Vegetable Oyster

Oxton Vegetal—Hafervurzel—Salsis

Culture. Sow from February to May, in deep, rich soil, in drills 15 inches apart. When large enough, thin out to 5 inches apart in the rows. One ounce of seed will sow 50 feet of row.

Mammoth sandbox Pink. Very large roots, tender and of rich flavor. Pkt. 5c, oz. 25c, ¼ lb. $1.25, lb. $3.50.
WINTER VARIETIES

BOSTON MARROW. Large, oval, bright orange with creamy netting. Flesh fine grained, orange colored and of finest flavor. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $1.75.

FORDHOOK. Oblong, slightly ridged, creamy yellow, flesh thick and of delicious flavor. Hard and solid; a good keeper. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $1.75.

GOLDEN HUBBARD. A very attractive variety of the Hubbard Squash. When matured the color is a deep orange-red, with rich orange-colored flesh, of the finest quality. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $2.00.

HUBBARD. The popular winter squash. Oblong and pointed, dark green, heavily warted. Flesh orange-colored; a splendid keeper. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $1.50.

LIVINGSTON’S FAVORITE. One of the best for general crop, of perfect shape, rich scarlet, large, solid and a good bearer. A good variety for shipping and canning. Pkt. 5c, oz. 40c, ¼ lb. $1.35, lb. $4.00.

SPARKS EARLIANA. Extra early, deep scarlet, large, smooth, solid and of the finest quality. The earliest large tomato grown. Pkt. 5c, oz. 40c, ¼ lb. $1.35, lb. $4.00.

PAYNE'S VICTORY. See page 4.

PONDEROSA, OR BEEFSTEAK. A favorite sort for the home garden; of immense size, sometimes weighing from 2 to 3 pounds each; have very few seeds. Pkt. 10c, oz. 65c, ¼ lb. $2.20, lb. $6.50.

STONE. A favorite sort for general crop, shipping and canning. Larger, much better quality, large, bright scarlet, very solid and a good bearer. Pkt. 10c, oz. 40c, ¼ lb. $1.35, lb. $4.00.

SAN JOSE CANNER. A fine smooth tomato for main crop, largely used for canning. Pkt. 10c, oz. 65c, ¼ lb. $2.20, lb. $6.50.

TOMATO PLANTS. See page 17.

TOBACCO

Tabac—Tabak—Tobaco

Culture. The seed can be sown in a frame or on a hot bed; or in well prepared beds in the open ground after danger from cold is past. Select fine, rich soil; cover the seed very lightly, about one-eighth of an inch, and press down firmly with the back of a spade; water with a fine spray. When the plants are about 4 inches high, transplant to rows 5 feet apart and 4 feet apart in the row. Tobacco requires a rich, mellow soil; wood ashes are beneficial as a fertilizer. One ounce of seed will produce enough plants for one acre.

CONNECTICUT SEED LEAF. Well known, the hardiest variety. Pkt. 10c, oz. 60c, lb. $2.00.

HAYANA. Cuban-grown (Vuerta de abajo). The true Havana tobacco. Pkt. 10c, oz. 90c, lb. $6.00.

TOMATO

Gitomate—Liebesapfel—Tomate

Culture. Seed can be sown from January to May. The early sowing should be in seed boxes in frames or on a hot bed. When the plants are about 2 inches high they should be transplanted to shallow boxes, placing them about 1 inch apart each way. Protect from cold, and when well established gradually harden off; when all danger from frost is over, transplant to the open ground, placing them from 5 to 8 feet apart each way. Later sowings can be made in the open ground, in seed beds or drills, after danger from cold is past. In frostless localities where winter tomatoes are grown, the seeds can be sown from the middle of May or in late June, to the end of September. One ounce of seed will produce about 2000 plants.

ATLANTIC PRIZE. Large, firm and solid. Will stand more cold than any other sort, and is largely planted in localities where winter tomatoes are grown. Pkt. 5c, oz. 90c, ¼ lb. $1.35, lb. $4.00.

CHALK'S EARLY JEWEL. Large, smooth and uniform; bright scarlet, fine flavor. One of the best early sorts and a good bearer. Pkt. 5c, oz. 90c, ¼ lb. $1.35, lb. $4.00.

PURPLE-TOP STRAP LEAF Turnip

Culture. Sow from October to May, in drills 15 inches apart, covering the seed lightly. When the plants are large enough, thin out to 5 or 6 inches apart in the rows. To grow good turnips it requires rich soil and plenty of moisture; this insures a quick, uninterrupted growth, and the turnips will be tender, and not woody as when slowly grown on poor soil. One ounce of seed will sow 100 feet of drill, or 2 pounds to one acre.

EARLY SNOWBALL. A pure white, globe-shaped variety of extra fine quality. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $2.25.

EARLY WHITE EGG. A small early sort, oval-shaped; flesh white, fine-grained and sweet. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $1.25.

EARLY WHITE FLAT DUTCH. Of medium size, flat, clear white and of good quality. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $1.25.

GOLDEN BALL, OR ORANGE JELLY. Globe-shaped, yellow, flesh yellow, firm and sweet. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $1.25.

PURPLE-TOP STRAP LEAF. The standard variety for market or the home garden. Of medium size, flat, white, purple above ground, fine-grained and sweet. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $1.25.

PURPLE-TOP WHITE GLOBE. Large, globe-shaped, flesh white and sweet. An excellent variety and the best for summer use. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $1.25.

IMPROVED PURPLE-TOP SWEDISH OR RUTA BAGA. Very hardy, large, flesh yellow and solid. Used for cooking, also for feeding stock. Pkt. 5c, oz. 90c, ¼ lb. 60c, lb. $1.25.
Lawn Grass and Clover Seeds

DIRECTIONS FOR MAKING A LAWN

To keep a lawn in good condition it should be fertilized at least once a year with a dressing of a good commercial lawn fertilizer.

Note.—Express or freight charges are not prepaid. Lawn seeds can be sent by parcel post at cheaper rates than my "postpaid" price. Where quantities of lawn seeds are ordered to be sent by parcel post, remit for the first pound at the "postpaid" rate, to cover postage and packing charges, and for the remainder at the rate quoted by "express" or "freight" and add the correct parcel post charge to your zone. This parcel post charge must be sent additional, or seeds will be sent by express. For information, see parcel post schedule on first page of catalog.

KENTUCKY BLUE GRASS. This is the grass generally used for lawns in Southern California. I handle only the best grade of seed. Lb. 75c, postpaid; by express or freight, lb. 60c.

WHITE DUTCH CLOVER. Largely used for mixing with Kentucky Blue Grass, making an excellent lawn. Seed of the best quality. Lb. $1.10, postpaid; by express or freight, lb. $1.00.

AUSTRALIAN RYE GRASS. Often used for making a quick lawn. It requires less moisture than Blue Grass, and will grow on soils where the latter will not thrive. Lb. 40c, postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

PACIFIC RYE GRASS. Similar to the Australian Rye Grass, but finer. Recommended for lawns. Lb. 40c, postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

SHADY LAWN GRASS. This is used for sowing under trees. It makes a rich, velvety lawn, and will grow in dense shade where other grasses will not thrive. Lb. $1.60, postpaid; by express of freight, lb. $1.50.

LAWN FERTILIZERS

NO. 1 GRADE, COMMERCIAL LAWN FERTILIZER. Apply at the rate of 4 lbs. to 100 sq. ft.; 40 lbs. to 1000 sq. ft. of lawn. First mix the fertilizer with about the same quantity of finely sifted soil, then scatter broadcast over the lawn and water thoroughly. 10 lbs. 60c, 25 lbs. $1.25, 50 lbs. $2.00, 100 lbs. $3.75.
Field and Fodder Crops

As these seeds are subject to frequent market fluctuations, I therefore request customers to write for prices, when quantities are required.

Note.—Express or freight charges are not prepaid. Field seeds can be sent by parcel post at cheaper rates than my "postpaid" price. Where quantities of field seeds are required, they must be sent by parcel post, rent-free for the first pound at the "postpaid" rate, to cover postage and packing charges, and for the remainder at the rate of 10 cents per pound. Parcel post charges are recommended for correct parcel post charge to your zone. This parcel post charge must be sent additional, or seeds will be sent freight, per lb. See chart on post-paid schedule on first page of catalogue.

ALFALFA (Medicago sativa.) This is without doubt the most valuable forage plant ever introduced into California, and is very nutritious either green or when made into hay. It does well on any good soil, if supplied with plenty of moisture. The land should be prepared by deep plowing and thorough harrowing. Sow broadcast, 20 lbs. to the acre.

ALFALFA, STANDARD QUALITY. This is the best seed on the market and comes from a section totally free from the alfalfa weevil, and also the dodder or Love Vine. I handle only the best, re-cleaned seed. Lb. 60c; postpaid; by express or freight, lb. 50c, 10 lbs. $5.00. Larger quantities, prices on application.

ALFALFA, PERUVIAN. This is considered to be a superior variety to the one generally grown here. It withstands drought and wild weather, and in addition to this yields a larger amount of foliage and heavier plant. Sow broadcast, 25 lbs. to the acre. Lb. 75c; postpaid; by express or freight, lb. 69c, 10 lbs. $5.50. Larger quantities, prices on application.

ALFILERILLA OR FILAREE. (Erodium moschatum.) A native fodder plant, very nutritious and preferred by cattle, sheep and horses to any other of the natural pasture plants. Especially valuable for sowing on stock ranges where the natural pasture has become worn out. Sow 20 lbs. to the acre. Lb. 85c, postpaid; by express or freight, lb. 75c, 10 lbs. $7.00, 100 lbs. $60.00.

BROOM CORN, IMPROVED EVERGREEN. The best variety grown. It grows 7 to 8 feet high, produces good, straight stalk, which retains its green color. Sow 10 lbs. to the acre. Lb. 25c; postpaid: by express or freight, 10 lbs. 25c.

BUCKWHEAT, SILVER HULL. A favorite variety, very productive, and makes the finest quality of flour. Sow 25 lbs. to the acre. Lb. 50c; postpaid; by express or freight, lb. 45c, 10 lbs. 85c.

CLOVER, ALSIKE. (Trifolium hybridum.) This variety exceeds well in wet, stiff soils. It makes a fine quality of hay; the blossoms are also valuable as a source of honey for bees. Sow 10 lbs. to the acre. Lb. 90c, postpaid; by express or freight, lb. 85c, 10 lbs. 7.50.

CLOVER, BOKHARA OR SWEET. (Melilotus alba.) A very productive, hardy, and an excellent planting for citrus groves to plug under as a green fertilizer. It is also a valuable source of forage for bees. Sow 10 lbs. to the acre. Lb. 70c; postpaid; by express or freight, lb. 60c. Larger quantities, price on application.

CLOVER, BURN. (Medicago maculata.) A well-known plant and now in great demand among orchardists as a cover crop. Sow 15 lbs. to the acre. Lb. 55c; postpaid; by express or freight, lb. 45c, 10 lbs. $4.00. Larger quantities, price on application.

COTTON, EGYPTIAN. One of the best varieties, and largely grown in the Imperial valley section. Oz. 10c, lb. 50c, postpaid. Lb.

EGYPTIAN CORN. Largely grown as a fodder plant. The seed is also excellent food for chickens. Sow 5 to 8 lbs. to the acre. Lb. 10c, postpaid; by express or freight, lb. 85c, 10 lbs. $1.25. Larger quantities, price on application.

FENUGREEK. Largely used for sowing in orchards as a cover crop, being a great nitrogen gatherer, and considered by some superior to Canadian field peas, or vetches. Sow 25 lbs. to the acre. Lb. 50c; postpaid; by express or freight, lb. 45c. Larger quantities, price on application.

GERMUDA. (Cynodon dactylon.) Of dwarf creeping habit, making roots at every joint. Of value as a pasture grass for hot countries. Sow 5 lbs. to the acre. Lb. 10c, postpaid.

GRASS, ITALIAN RYE. (Lotium italicum.) An annual grass which thrives in almost any soil, and produces a heavy crop of hay. It should be sown in the fall. Sow 50 lbs. to the acre. Lb. 60c; postpaid; by express or freight, lb. 55c, 10 lbs. $3.00. Larger quantities, price on application.

GRASS, ORCHARD. (Dactylis glomerata.) A valuable pasture grass, also makes excellent hay. Sow 50 lbs. to the acre. Lb. 45c, postpaid. Larger quantities, price on application.

GRASS, PERENNIAL RYE, OR AUSTRALIAN. (Lolium perenne.) A valuable pasture grass, which grows very rapidly and makes excellent hay. Also used for planting for lawns on poor soil. Sow 60 lbs. to the acre. Lb. 40c; postpaid; by express or freight, lb. 30c, 10 lbs. $2.75.

GRASS, RED TOP. (Agrostis vulgaris.) This grass succeeds well on all soils, responds well to fertilizer, and is one of the best evergreens. It is also valuable as a lawn grass, producing a quick effect. Sow 40 lbs. to the acre.

GRASS, TIMOTHY. (Phleum pratense.) A valuable grass for hay, and on good soil produces a heavy crop. However, it is not of much value as a pasture, and is not suited to Southern California. Sow 20 lbs. to the acre. Lb. 35c, postpaid; by express or freight, lb. 25c, 10 lbs. $2.25. Larger quantities, price on application.

KAFFIR CORN. A valuable fodder plant, especially for dry soils. The seed also makes good poultry food. Sow 6 lbs. to the acre. Lb. 20c; postpaid; by express or freight, lb. 15c, 10 lbs. $1.25. Larger quantities, price on application.

MABEL, GERMAN. This valuable fodder plant will thrive on any soil, and yields a heavy crop. It makes excellent hay or green feed. The seed is also valuable as food for poultry or stock. Sow in drills 25 lbs. to the acre. Lb. 25c; postpaid; by express or freight, lb. 15c, 10 lbs. $1.25. Larger quantities, price on application.

Millet, Hungarian. Of more slender growth than the preceding, and largely used for hay. Lb. 50c; postpaid. Larger quantities, price on application.

MILDO MAIZE, DWARF. Red end for dairy feeds or for stock. Very productive and relished by all stock. Lb. 25c; postpaid; by express or freight, lb. 15c, 10 lbs. $1.25. Larger quantities, price on application.

Millet, Canadian Field. Of strong, vigorous growth, and suited to all soils. Sow 10 lbs. to the acre. Lb. 25c; postpaid. Larger quantities, price on application.

MILLET, BUSH, AUSTRALIAN. (Atriplex semibaccata.) A forage plant, which succeeds especially well on low lands near the coast, and thriving on soil containing much alkali. Sow about 2 lbs. of seed to the acre. Oz. 10c, lb. 85c, postpaid. Larger quantities, price on application.

SORGHUM, EARLY AMBER. A very nutritious forage plant which cam also be used as a cow crop and will yield to 3 to 4 cuttings a year. Sow in drills 10 lbs. to the acre, or broadcast 25 lbs. to the acre. Lb. 25c; postpaid; by express or freight, lb. 15c, 10 lbs. $1.25. Larger quantities, price on application.

SUDAN GRASS. A valuable plant for grid and semiarid countries. It is a rank grower and will produce from 2 to 4 tons per acre without irrigation, or from 8 to 10 tons with irrigation. All kinds of stock prefer it to most other forage plants. Lb. 60c, postpaid; by express or freight, lb. 45c, 10 lbs. $2.50. Larger quantities, price on application.

SUNFLOWER, LARGE RUSSIAN. This variety bears immense heads, often 12 inches or more in diameter, and yields a heavy crop of seed, which is used for feeding parrots and poultry. Sow in spring, in drills, using 3 or 4 lbs. per acre with or without irrigation, or from 8 to 10 tons with irrigation. Lb. 50c, postpaid; by express or freight, lb. 30c, 10 lbs. $2.00. Quantity price on application.

TOBACCO. See page 16.

Lamb's Quarters (Chenopodium album) is a prolific and nutritious crop, which is also useful as green feed for stock. Sow 10 lbs. to the acre. Lb. 25c, postpaid. Larger quantities, price on application.
Flower Seed Novelties and Specialties

Superb New Antirrhinums or Snapdragons

Snapdragons are among the most popular flowers grown in California. In the last few years great advancement has been made in the development of these lovely flowers, both increasing the size of the blossoms and adding many new and delicate shades. The intermediate or semi-dwarf varieties grow from 15 to 24 inches high and are the most desirable for bedding. The tall varieties grow from 24 to 30 inches high and on account of their long stems are particularly valuable for cut flowers. Below I am offering a large assortment of the very best varieties of recent introduction.

INTERMEDIATE VARIETIES

Amber Queen. Canary yellow, shaded chamois pink.
Bonfire. Orange buff, shaded scarlet.
Cottage Maid. Coral pink with white throat.
Crimson King. Bright rich crimson.
Golden Queen. Pure golden yellow.
Mauve Beauty. Rosy mauve.
Purity. Pure white.
Old Rose. Soft blush pink, suffused terra cotta.
Silver Pink. Pearly pink, extra fine.
The Fawn. Terra cotta pink, suffused yellow.
The above varieties, each, per pkt., 10c.

SPECIAL OFFER. Full collection of the above ten varieties, one packet of each, for 85 cents.

TALL LARGE FLOWERED VARIETIES

Defiance. Brilliant orange scarlet.
Giant Garnet. A rich shade.
Golden King. Large clear yellow.
Lilac Queen. White suffused with pale lilac.
Moonlight. Golden apricot and old rose.
Orange King. Orange scarlet, pink throat.
Princess Patricia. Pale rose overlaid chamois.
Queen Victoria. Very large pure white.
Rose Queen. Soft rose.
Venus. Pink on white ground, white throat.
The above varieties each, per pkt., 10c.

SPECIAL OFFER. Full collection of the above ten varieties, one packet of each, for 85 cents.

NEW GIANT SNAPDRAGONS

(Antirrhinum maximum)

A new race of Giant Snapdragons producing flowers of enormous size on long spikes. Invaluable for cutting and also for display in the garden.

Bunch of Lilac. Beautiful lilac purple. Pkt. 25c.
Copper King. Coppery scarlet. Pkt. 25c.
Snowflake. White. Pkt. 25c.

Long Spurred Hybrid Aquilegias

A magnificent strain of hybrid Columbines producing an abundance of very large flowers, with long spurs and borne on tall, graceful stems. The colors range in all shades of blue, lavender, mauve, yellow, orange, scarlet, rose-pink and white. Pkt. 15c.

New Aster, American Beauty

This grand new Aster is one of the most valuable introductions of recent years and is quite distinct from any other variety. It is similar in growth to the Late Branching Aster but differs in that the blossoms are produced on longer and heavier stems. Some of these stems will measure over 2 feet in length. The flowers are produced in succession over a long period, they are very large, perfectly double and especially valuable for cutting purposes. In six colors: Peach Blossom, Pale Pink, Rose, Lavender Purple, White, or mixed. Each per pkt. 25c, ½ oz. 50c.

SPECIAL OFFER. Full collection of the above 6 colors, one packet of each, for $1.25.

Payne's Giant Branching Comet, or Ostrich Plume Aster

This magnificent strain is without doubt the best of the late flowering asters for our climate. They grow from 2 to 2½ feet high, and form strong, much-branched bushy plants. The flowers are produced in large quantities, on long wiry stems, and are of immense size, often four or five inches across; they are of the most perfect form, with long, broad and curled petals. For cutting purposes this strain offers them in 3 different colors: White, shell pink, lavender pink, rose, crimson, lavender, dark blue, royal purple, or mixed. Each per pkt. 15c, ½ oz. 35c.

SPECIAL OFFER. Full collection of the above 8 colors, one packet of each, for $1.00.

Bidens dahliae

Anchusa italic., Dropmore

This beautiful perennial plant is of recent introduction and should be planted in every garden. The plants grow 4 to 5 feet high and are remarkable for their free and continuous blooming. The flowers, which are produced in long spikes, are of a rich gentian-blue shade. Pkt., 15c.

Bidens dahliae

A hardy perennial producing large quantities of single, Cosmos-like flowers of a beautiful light pink shade. The flowers keep well in water and are excellent for cutting purposes. If the seed is sown in February or early part of March the plants will flower the first season. Pkt., 25c.

Cardinal Climber

A new and absolutely distinct annual climber, being the result of a cross between Ipomoea quamoclit, "Cypress Vine," and Ipomea coccinea. I consider this the most brilliant and beautiful annual vine ever introduced. It will no doubt attract universal attention, not only for the beauty and number of its bright, cardinal-red flowers, but for its hardness, its quick growth, reaching a height of 20 to 25 feet in a short time, and also for its rich green, laciniated foliage, which resembles that of a Japanese Maple. The flowers, which are about 1½ inches in diameter, the tube being about 1½ inches in length, are borne in clusters of from 5 to 7, and their vivid cardinal-red color against the abundant dark green foliage is most effective. This vine thrives best in a good soil and a warm, sunny situation. Sow the seed in the open ground as soon as the weather is warm and settled. Pkt. 15c.
Payne's Large Flowered Cineraria

Cinerarias have become very popular of recent years not only as greenhouse plants but also for outdoor culture in sheltered and shady situations, and we regard them as one of the most valuable plants for making a display in the garden during the late winter and spring months. For early flowering, sow the seed in May or June and later sowings up until September. Sow the seed in seed pans of finely screened soil, composed of good loam, leaf mold and sand. As soon as large enough pot off the young seedlings and later transfer to larger pots until ready to plant out into the open ground. Cinerarias like a well enriched soil and will amply repay one for a little extra care and cultivation.

AZURE BLUE, pkt., 50c; OLD ROSE, pkt., 50c; ROYAL BLUE, pkt., 50c; EXTRA CHOICE MIXED, pkt., 50c.

Cineraria

STELLATA AND CRUENTA HYBRIDS

This strain is especially desirable for making a display in the garden and is very hardy, succeeding with little care. It forms strong, pyramidal plants, 2 to 3 feet high, covered with hundreds of star-shaped flowers. The seed I am offering has been carefully selected and will be found to contain a large percentage of blue shades. Pkt., 25c.

Chinese Wool Flower

This celosia from China is a novelty of great merit and attracts a great deal of attention; it will produce a large ball of wool, often 7 or 8 inches in diameter. Besides the main central stem the plant throws out numerous side branches each terminating in a ball of crimson wool. It is hardy and will retain its full beauty and color until late in the season. Very effective when planted in beds and borders, also valuable for cutting purposes. Pkt., 25c.

Giant English Cyclamen

A great improvement on the ordinary Giant Cyclamen. The plants are of robust, vigorous growth, and have hairy foliage. The flowers are very large and produced in great profusion and come in many rich colors. The seed I am offering is imported from a specialist in England.

DUKE OF FIFE. Deep lilac rose. Pkt. 50c.
GIANT CRIMSON. Brilliant crimson. Pkt. 50c.
SALMON KING. Bright salmon pink. Pkt. 50c.
GIANT WHITE. Pure white. Pkt. 25c.
GIANT MIXED. Pkt., 25c.

Delphinium Belladonna

This magnificent strain of Delphinium is now in great demand. The plants are of robust growth, and from numerous stems from the crown, but require no staking. The flowers are large and are arranged rather loosely on the spike so that they stand out boldly from the main stem presenting a most graceful appearance, especially desirable for cutting. Perhaps the most valuable feature of these plants is their exceptional qualities. It well cared for, and the old stems are kept cut off, they will flower almost the year round, and even through the winter months.

Belladonna. Light blue. Pkt., 25c; 1/4 oz., 50c.
Belladonna hybrids. Various shades of light and dark blue. Pkt., 25c; 1/4 oz. 75c.

Didiscus Coeruleus, "Queen Ann's Blue Lace."

Though not new this valuable annual has only recently been introduced into California. The plants set up of upright growth and produce numerous heads of sky blue flowers. It succeeds well in the open ground and also makes an excellent pot plant. Pkt., 25c.

Digitalis, The Shirley

A very fine strain of Foxglove raised by the late Rev. W. Wilks of Shirley Vicarage, England, originator of the famous Shirley Poppy. The plants grow 5 to 6 feet high and produce enormous spikes of large flowers. The colors range from white and shell pink to deepest rose, beautifully spotted and blotched with crimson or chocolate brown. Pkt., 25c.

Freesia hybrida Ragionieri

This is without doubt one of the most remarkable novelties of late years. The fragrant blossoms are produced in the most exquisite shades of rose, pink, purple, violet, yellow, orange and brown, often delicately veined and spotted. The culture is the same as for the white freesias, and plants can be had in bloom in seven or eight months from the seed. Pkt., 15c.

Gerbera Jamesonii, "Scarlet Transvaal Daisy."

This beautiful plant from South Africa thrives quite well in our California climate, and is becoming very popular here. The plants require a good rich soil, with plenty of drainage and a sunny location. The flowers resemble a marguerite in shape but are of a scarlet-crimson color. They are produced on long stems, and last a long time if protected. During the past season, in seed pans of light, well-drained soil, and kept in a glass house or frame, and the young plants can afterwards be transplanted to the open ground. Pkt., 25c.

Gerbera Jamesonii hybrida

The flowers of these magnificent hybrids of the Transvaal Daisy are of about the same size as those of the popular variety Mrs. Bradhaw, but are of a deep, rich golden yellow. It makes a fine display in the garden and is excellent for cutting. Plants from seed sown in the fall will bloom the following spring and summer. Pkt., 25c. (For illustration see front cover.)

New Double Cosmos

This new double Cosmos is a selection from the Anemone Flowered Cosmos introduced by me from England three years ago. In this new form a large percentage of the plants produce perfectly double flowers, the remainder being of the Anemone Flowered type. In three distinct colors: DOUBLE PINK, pkt., 25c; DOUBLE WHITE, pkt. 25c; DOUBLE CRIMSON, pkt., 25c.

New Yellow Geum—Lady Stratheden

Without doubt this is one of the finest introductions of this year. The flowers are all double just as those of the popular variety Mrs. Bradhaw, but of a deep, rich golden yellow. It makes a fine display in the garden and is excellent for cutting. Plants from seed sown in the fall will bloom the following spring and summer. Pkt., 25c. (For illustration see front cover.)

Anemone Flowered Cosmos

Anemone Flowered Cosmos

Though not exactly a double flower, on the disk flowers there is produced a thick, beard-like growth, giving the flower a full or double appearance in the center, as seen in the accompanying illustration. While they do not come altogether true from seed, a large percentage of the plants produce flowers with this peculiar phenomenon more or less. In evidence of the remainder being the flowers of the ordinary type, I offer them in four distinct colors: PINK BEAUTY, pkt., 15c; WHITE QUEEN, pkt., 15c; CRANBURY KING, pkt., 15c, MALMAISON PINK, pkt., 15c.
LUPINUS PAYNEI
"Payne’s Tree Lupine"

A native California species discovered by the writer in 1897 and named in his honor by Dr. Anstruther Davidson, the well known botanist of New Zealand. For his description of this plant see Bulletin of the Southern California Academy of Sciences, July, 1918.

I believe this is the most wonderful Tree Lupine in the world. It forms large round topped shrubs 4 to 8 feet high from a trunk-like base 3 to 4 and sometimes 8 inches in diameter. One large specimen measured 8 inches through the trunk, 8½ feet high and 13½ feet through the crown and with this bloom had over 500 flower spikes in bloom at one time.

The foliage is very handsome and silvery green, and the flowers are produced in racemes 8 to 15 inches long. They remind one of wisteria blossoms and appear in many beautiful shades; hardly two plants are just alike; some are pale blue, others lavender, pale lilac, dark blue, purple, rose pink, flesh pink or white; all with a beautiful yellow blotch on the standard. The blossoms are deliciously fragrant, a few flowers being sufficient to perfume a whole house. The plants bloom in the spring and the whole bush blossoms simultaneously. They grow in a heavy reddish clay soil. Soak the seeds in hot water over night and plant about one inch deep in the open ground where the plants are to remain. Pkt., 25c.

Texas Blue Bonnets
(LUPINUS TEXENSIS)

Everyone who has ever lived or traveled in Texas is no doubt familiar with the Texas Bonnets which in many places cover the plains with masses of rich blue flowers. This season I have been fortunate enough to secure direct from Texas a limited quantity of seed of this beautiful lupine which I am now offering to my customers. Pkt., 15c; oz., 75c; lb., $1.75.

MECONOPSIS HETEROPHYLLA
"Flaming Poppy"

This charming little plant is a native wild flower of California, but is rare in every garden. It is an annual, a slender fragile plant 1 to 2 feet high, succeeding well in partial shade. The flowers are an intense orange-scarlet with a deep maroon ring at the base, of exquisite beauty, the petals having the delicate satin texture of the poppy. Now in full or very early spring in the open ground. Pkt., 15c.

NEMESIA STRUMOSA SUTTONII
New Hybrids

A beautiful annual of recent introduction which succeeds well in California and is especially valuable for winter blooming. The plants grow about 1 foot high and produce large quantities of orchid-like blossoms in various shades of pink, rose, yellow, but, orange and blue, beautifully marked and shaded. Pkt., 25c.

Nemisia Dwarf, Blue Gem

One of the most valuable introductions of recent years. A very dwarf, compact little plant, with bright blue flowers, produced in great profusion. Very desirable for beds, for edgings or as a ground cover for bulb beds, a good winter bloomer. Pkt., 25c.

Payne’s Royal Exhibition Pansy

This is undoubtedly the most superb strain of Pansies ever offered on this coast. The plants are of vigorous growth, and are particularly free flowering. The blossoms are very large, and of fine, velvety texture, including all the richest colors and combinations of colors, many of them exquisitely blotched, spotted and margined. Pkt., 25c; ½ oz., $1.00.

Petunia, Payne’s Giants of California
Ruffled and Fringed

The Petunia is one of the most popular plants in California gardens. This superb giant strain i am offering produces immense flowers of great substance, often 4 or 5 inches in diameter, deep-throated and with the edge of the petals beautifully ruffled and fringed. They include all the richest colors and combinations of colors, many of them beautifully veined, mottled or striped. Pkt., 25c.

New Poppy, Rybirgh Hybrids

This splendid new strain of annual poppies produces plants of bushy habit, carrying quantities of long-stemmed flowers in charming shades of flesh, salmon, orange, pink, rose and carmine. The flowers are double and semi-double and last well when cut. Pkt., 25c.

New Poppy, Eldorado

A lovely strain of annual poppies of the Shirley type, producing in great abundance, large double flowers measuring about 3 inches across. They come in the most delicate and brilliant colors, ranging from palest pink through shades of rose and salmon to rosy scarlet. Some are white with salmon-pink or crimson margins, others orange-salmon shaded white, others again are fiery rose-scarlet shaded white, cherry red and white or scarlet with white center. They attain a height of about 2 feet and are of great decorative value for cutting. Pkt., 25c.

The Flanders Poppy

The Wild Red Poppy so familiar to those who served in the recent European conflict, and to those who hold other memories of that continent. All through Western Europe this poppy grows wild in the fields and along the roadsides. Scattered through ripening wheat the flaming red blossoms show in striking and beautiful contrast to the clear, golden yellow of the maturing grain, making a picture of country-side loveliness that is never to be forgotten. It is from this wild poppy that the Rev. W. Wilks of Shirley Vicarage, England, produced the well-known Shirley poppy and from which many other garden varieties have originated. Pkt., 15c, oz. 75c.
Scabiosa caucasica

A beautiful perennial Scabiosa. The plants grow 2 to 2½ feet high and produce large lavender flowers 3 to 4 inches across on long strong stems, producing a long season of bloom, and are very desirable for cutting. The plants are very free flowering, blooming continuously from the end of June until late in the fall. Pkt., 25c.

TITHONIA SPECIOSA

“Mexican Sunflower”

A rare plant from Mexico. Annual throwing up from the root many stout, woody stems furnished with rather large foliage. The flowers are large and remind one of an immense single zinnia: color dazzling orange. It forms a large shrubby plant, flowers for a long period and is especially desirable for planting among shrubs or in the background of wide borders. Pkt., 15c.

New Verbena, Lucifer

This splendid new Verbena is of low, compact habit, and produces immense quantities of flowers, which are an intense brilliant scarlet with no eye. A great improvement on the old varieties. Pkt., 15c.

Viola cornuta, Papilio

Though not so large as the regular pansy, this variety is so free flowering that it is far superior for bedding purposes. The plants begin to bloom when quite small and produce a never ending succession of deep blue flowers. For making a display in the winter and spring months there is no variety equal to it. Pkt., 15c; ½ oz., 75c.

NICE GIANT STOCKS

The Nice stock has proved to be pre-eminently the stock for Southern California and has become very popular of late, so much so, that I have discontinued raising many of the other strains. They form well branched plants about 2 feet high, producing spikes of large double flowers not tightly clustered but borne along the entire stem. They are very graceful and especially desirable for cutting. The plants are extremely free flowering, continuing in bloom for a long period. For winter flowering sow the seed in July and August. In transplanting stocks care should be taken to save the small or weak growing plants, as these generally produce double flowers, while the strong, robust growing seedlings often come single. The seed I am offering here is imported direct from the best grower in Nice, France, and contains several new varieties of great merit.

Abundance. Carmine rose, large. Pkt., 15c ½ oz., 75c.
Almond Blossom. White shaded carmine. Pkt., 15c,
¼ oz., 75c.

Primula malacoides

This valuable introduction from China has proved to be one of the most free-flowering species and especially useful for out-door culture in partially shaded places. It is quite hardy and is one of the best winter flowering plants we have. It is also well suited for pot culture. The flowers are of a delicate shade of lilac. Seed sown in August produces plants which flower throughout the winter months. Pkt., 25c.

Schizanthus Wisetonensis

One of the daintiest of annual flowering plants and adapted for sowing in beds or borders. The seeds germinate quickly and the plants flower in a remarkably short time. When in bloom the foliage is almost completely hidden by the immense number of delicate butterfly-like flowers which are white, dotted with delicate rose. Makes an admirable pot plant for house or conservatory. Pkt., 15c.

Schizanthus, Garraways Hybrids

A new select strain, especially desirable for forcing, splendid range of colors. Pkt., 25c.

Giant Stocks—Bismarck

This class of Giant-Ten-Week Stocks is of great merit and only needs a trial to be thoroughly appreciated by every flower grower. The plants grow from 2 to 2¼ feet high, and are branching habit, producing large spikes measuring 12 to 16 inches long. They are especially desirable for cutting and produce a high percentage of double flowers. I offer them in 8 distinct colors: White, canary yellow, chamois, flesh pink, rose, blood red, lavender, dark blue, or mixed. Each, per pkt., 25c.

Winter Flowering Wallflower

A very desirable plant, producing great quantities of flowers all through the winter and spring. The flowers are fragrant and come in a great variety of colors, ranging from cream color to primrose, sulphur yellow, golden yellow, lilac, mauve, purple and violet. It succeeds best in a shady or partially shady place, but will also thrive in the full sunlight. Plants from seed sown early in fall will bloom the following winter. Pkt., 25c.
Payne's Giant Double Zinnia

Giant Picotee Zinnia

The Picotee Zinnia is a new and unique class. The flowers are like those of the Giant Zinnia but the petals are tipped with a different color; dusky brown tipped with dark brown is one of the most frequent types, others are orange, brown, yellow, orange, various shades of pink and crimson all with well defined gold or brown picotee markings. Pkt. 25c.

New Dahlia Flowered Zinnia

A new and distinct race of Zinnia which will no doubt become very popular. The plants are of sturdy growth forming bushy plants 2 to 3 feet high, producing quantities of immense double flowers on long stems. The blossoms are the largest of any Zinnia ever grown and when fully developed often measure 4 inches in depth and 6 inches in diameter. The petals are larger and broader than in the ordinary giant zinnia and give the flower a resemblance to a show dahlia. In the color of the flowers there is a wonderful range, including golden yellow, burnt orange, old rose, cerise, mauve, crushed strawberry, terra cotta, rose pink, Tyrian rose and other charming shades.

Exquisite Light rose, center deep rose, of true dahlia flowered type. The most pleasing of the collection Pkt. 50c.
Old Rose. Beautiful old rose shade, very large. Pkt., 50c.
Giant Attraction. Brick red, forming an immense ball of color. Pkt., 50c.
Scarlet Flame. Bright scarlet, blended orange. Pkt., 50c.
Meteor. The darkest shade of red, very large. Pkt., 50c.
Oriorie. Orange and gold, immense flower, one of the most beautiful. Pkt., 50c.
Dream. Deep lilac, turning to mallow purple. Pkt., 50c.
Canary Bird. Yellow. Pkt., 50c.
Dahlia Flowered Mixed. Pkt., 25c.

Giant Quilled Zinnia, Victory

In this Zinnia we have quite a new departure in this popular class of flowers. It is quite distinct from all other varieties ever raised. 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, which last a long time when cut. Pkt., 25c.

Payne's Giant Double Zinnia Special Mixture of Pastel Shades

The Zinnia is one of the most desirable of our summer and fall flowers for cutting purposes. They last a long time in water and are very decorative. However, many of the colors are too dazzlingly bright, and though we may admire them in the garden, they are not suited to produce artistic effects in the house. On the other hand, many of the lighter shades are very delicate and desirable for decorative purposes. Of late years there has been a great demand for Zinnias in the pastel shades, and this season I am offering a very carefully made up mixture which will be found to include all the most delicate art tints. Pkt., 15c; ¼ oz., 40c.

Payne's Giant Double Zinnia

Zinnias are among the most popular of the summer flowering annuals, producing a grand display of brilliant and dazzling colors for many months, with little care and attention. The plants of this giant strain are of extremely robust growth, attaining a height of from 2 to 2½ feet; bearing immense flowers, often 8 inches in diameter, very double, and of the most striking colors. I offer this superb strain in 14 distinct shades.

Apricot Yellow. Pkt., 15c; ½ oz., 35c.
Buff. Pkt., 15c; ¼ oz., 25c.
Bright Rose. Pkt., 15c; ½ oz., 35c.
Burnt Orange. Pkt., 15c; ½ oz., 40c.
Canary Yellow. Pkt., 15c; ½ oz., 35c.
Crimson. Pkt., 15c; ½ oz., 35c.
Flesh Pink. Pkt., 15c; ½ oz., 40c.
Orange King. Pkt., 15c; ½ oz., 50c.
Purple. Pkt., 15c; ½ oz., 35c.
Rose King. Pkt., 15c; ¼ oz., 40c.
Rose Queen. Pkt., 15c; ¼ oz., 50c.
Salmon Pink. Pkt., 15c; ¼ oz., 40c.
Scarlet. Pkt., 15c; ¼ oz., 35c.
Shrimp Pink. Pkt., 15c; ¼ oz., 35c.
All Colors Mixed. Pkt., 15c; ¼ oz., 25c.

SPECIAL OFFER. Collection of any six of the above, one pkt. each, for 75c. Collection of the whole 14 colors, one pkt. each, for $1.50.
### FLOWERS AND PLANTS

**FOR DIFFERENT PURPOSES AND SITUATIONS, WHICH CAN BE GROWN FROM SEED**

#### FLOWERING ANNUALS

Including some perennials which flower the first season from seed. Those marked * are the best for massing in beds and borders.

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READ CAREFULLY

in sowing flower seeds in California it must be remembered that the conditions are entirely different from those existing in the Eastern States. There the time for annual and half hardy annuals is mainly in the Spring, while in California the majority of them do best when sown in the fall and early part of the Winter. To be true pleased when most of our native annual wild flowers commence to grow. It naturally follows that is the best time to plant most annuals in our gardens. There are, however, some exceptions to this rule, such as Astras, Zinnia, Portulaca, etc., which demand a distinct Summer flowering plants. In the following pages I have endeavored to give special instructions where needed as far as space will permit.

Tall lilac plants a Carpet of Lilac flowers, sunny, compact in Imperial yards in inches. Very flowering. The is understood in California when The are grown in the winter season. Sow in the open ground in fall or early winter.

Rose, white, or mixed. Each per pkt., 10c; oz. 75c.

ALEXANDRA. See Flower Seed Specialties page 19.

ANTIGONON LEPTOPUS. "Rosa de Montana." A beautiful perennial climber, producing immense clusters of rose-colored flower-bracts. Sow in pots as early as possible and afterwards transplant. Pkt. 15c.

ANTIRRHINUM. "Snapdragon." A perennial blooming the first season from seed and generally treated in California as an annual. Showy plants for borders or large beds.

Tall mixed. Height, 2 to 2½ ft. Pkt. 10c.

Intermediate mixed. Height, 1½ to 2 ft. Pkt. 15c.

Separate colors. See Flower Seed Specialties page 19.

AQUILEGIA. "Columbine." Magnificent perennial plants growing from 2 to 3 ft. high and flowering in spring and early summer. The seed should be sown in pots or boxes and afterwards transplanted to the open ground. They succeed best in a sunny, well-drained situation.

california hybrida. Very large yellow flowers with long orange-colored spurs, extra fine. Pkt. 15c.

chrysanth. Rich canary yellow. Pkt. 15c.

coeura. (Rocky Mountain Columbine), pale blue and white. Pkt. 10c.

Long Spurred Hybrids. See Flower Seed Novelties. page 19.

ARCTOTIS GRANDIS. Annual forming large, bushy, much branched plants, 2 to 3 ft. high. Flowers large, white on the upper surface, the reverse of petals pale lilac-blue. Of easy culture and remarkably free flowering. Pkt. 10c.

ASTER. A popular annual, largely grown for cut flowers; also for beds, etc. Sow the seed from March to May in see pots, or boxes, after which seeds are transplanted to rich, well worked soil.


Vick's Branching. A large, late flowering variety in great demand for cutting. The plants form strong branching bushes 2 to 2½ ft feet high, producing large Chrysanthemum-like flowers on long, stout stems.

White, Daybreak pink, rose, crimson, lavender, purple or mixed. Each, per pkt. 10c; ¼ oz., 90c.

GIANT BRANCHING COMET. See Flower Seed Specialties, page 19.

Victoria. Fine mixed; height 1½ feet. Pkt. 10c.

Troussaut's Paeony Flowered Perfection. Fine mixed; height 1½ feet. Pkt. 10c.

AURICULA. Perennial, 6 inches. Sow in seed pans and keep in house or frame; can be grown as a pot plant or planted out in sheltered borders. Seed saved from splendid collection of finest mixed sorts. Pkt. 5c.

AUSTRALIAN PEA VINE. (Dolichos laburnus.) A very rapid growing vine, with pretty foliage and rose and purple pea flowers. Plants covering up fences quickly; stands the heat well. The seed should be soaked in hot water about 17 hours before sowing. Pkt. 10c.


BARTONIA AUREA. Annual 1 to 1½ feet high. Large golden yellow flowers opening during the sunshine. Pkt. 10c.

BEGONIA TUBEROUS-ROOTED. Beautiful perennial plants blooming the first season if sown early. Much used as pot plants; also for planting out in sheltered places. The seed should be sown in well drained seed pans, in spring or early fall, in seed boxes and when large enough transplant. Pkt. 10c.

BEGONIA EVER-BLOOMING BEDDING VARIETIES. Perennials flowering the first season from seed. Very popular bedding plants doing well in the full sunlight, also in shady and partially shady situations, flowering for a long period. The plants grow about 1 foot high, forming dense, compact bushes, almost completely hidden by the bright colored flowers. They are also admirable for pot culture or window boxes. Sow the seed the same as the tuberous rooted begonias.

BEGONIA E. V. JERUSALEM. Purple. Pkt. 15c.

BEGONIA E. V. MEXICO. Pink. Pkt. 15c.

BELLIS PERENNIS. "Double Daisy." Perennial, but flowering the first season from seed. Favorable plants for edgings, low beds, etc. Height 6 inches.

BEGONIA TUBEROUS-ROOTED. See Flower Seed Specialties, page 19.

BELLIS PERENNIS. "Double Daisy." Perennial, but flowering the first season from seed. Favorable plants for edgings, low beds, etc. Height 6 inches.

LONGFLOWER. Pink and white. Pkt. 10c.

FINE MIXED. Pkt. 10c.

Montrose. A tall form of strong, robust growth with abundance of immense very double flowers. Rose, red, white or mixed. Each per pkt. 15c.

RIDERS DAHLIODES. See Flower Seed Novelties, page 15.

BRACHYCOME IBERIDIFOLIA. "Swan River Daisy." Annual 1 to 1½ feet high. Flowers, with immense numbers of large single blue or white flowers, in bloom nearly all the year. Pkt. 10c.
CALCEOLARIA HYBRIDA GRANDIFLORA. A magnificent greenhouse perennial, blooming the first season. Large pocket-like flowers of the most brilliant shades of yellow, maroon, crimson, etc., spotted and blotched in the most unique fashion. The strain offered here is from one of the most celebrated growers in Europe and is unsurpassed in quality. Sow in August or September in seed pans and keep in greenhouse.

Large flowered. Tigered and spotted, superb mixture. Pkt., 50c.

CALENDULA OFFICINALIS. "Pot Marigold." Annual, 1 ft. The "Marygold" of Shakespeare. Exceedingly showy and free flowering plants of easy cultivation and requiring very little water. Blooming nearly all the year and most valuable for large beds where a mass of color is desired.


CALLIOPSIS. Annual, 2 to 3 ft. Showy and free flowering plants of easy culture, doing best in a sunny situation and blooming for a long period. Flowers large, are splendid for cutting purposes.


CAMPANULA MEDIUM. "Canterbury Bells." Biennial, 2½ to 3 ft. Old-fashioned favorite flowers of easy cultivation. The seed may be sown late in spring or early in fall, in seed beds or boxes, and when large enough, transplant to where they are to flower. The plants will bloom the following spring and summer.

Single, Blue, Rose, White or Mixed. Each, pkt., 10c. Double, Blue, Rose, White or Mixed. Each, pkt., 15c. Calycanthema. "Cup and Saucer Canterbury Bells." Differ from the ordinary type in having an extra large calyx, which is the same color as the flower, giving the appearance of a cup and saucer.

Cup and Saucer, Blue, Rose, White or mixed. Each per pkt., 15c.

CANDYTUFT. Old-fashioned free flowering annuals growing 1 to 1½ feet high, very desirable for borders and masses.


CANNINA. Perennial, 3 to 6 feet high. Most effective plants for massing in large beds or for borders, making a great display of color. They bloom from early spring till late in the fall and the large, bright-colored flowers contrast well against the heavy, handsome foliage. Soak the seed in hot water a few hours before sowing.

New Large-flowered Hybrids. Saved from a choice collection. Pkt., 10c.

Seeding Carnation

CARDINAL CLIMBER. See Flower Seed Novelties, page 19.

CARNATION. Perennial, 1½ to 2 feet high. Well known favorite flowers much used for cutting purposes. Sow in seed pans or boxes, and when large enough, pot off and afterwards transplant to the open ground. The plants will flower the following year; as they bloom they should be carefully marked, saving only the best double flowered ones and discarding the small and single flowered plants.


CELOSIA CRISTATA. "Cockscomb." Annual, 1 foot high. Valuable as pot plants; also very effective for large beds and borders. They succeed best in a rather light, warm soil. The seed can be sown early in spring in seed pans or boxes and afterwards potted or transplanted to the open ground where they are to flower.

Glasgow Prize. The finest strain; combs of deep crimson color and immense size. Pkt., 15c. Fine mixed. Pkt., 15c.

CELOSIA PLUMOSA. "Feathered Cockscomb." Annual, 2 to 3 feet high. Magnificent plants for large beds or groups. Producing large plume-like flowers, which can be cut and dried for winter bouquets. The seeds should be started in the same way as the other "Cockscombs" mentioned above.


CENTAUREA CANDIDISSIMA. "Dusty Miller." Perennial, 1 to 1½ feet. A beautiful plant with white silvery leaves and used for beds and edgings. The seeds should be sown in seed boxes and afterwards transplanted. Pkt., 10c.

CENTAUREA CYNANUS. "Cornflower." Annual, 1½ to 2 feet high. A well-known annual, much used for cutting purposes.

CENTAUREA IMPERIALIS. "Royal Sweet Sultan." Annual, 2 to 3 feet. A great improvement on the old strain of "Sweet Sultan"; flowers resemble the "Cornflower" in shape, but are of immense size. Valuable for florists' use, lasting a long time when cut.

GIANT AMARANTH RED. New. Pkt., 10c; oz., $1.00.

GIANT BRILLIANT ROSE. Pkt., 10c; oz., $1.00.

GIANT DEEP LAVENDER. Pkt., 10c; oz., $1.00.

The Bridge's Heliotrope. Pkt., 10c; oz., $1.00.

GIANT WHITE. Pkt., 10c; oz., 75c.

GIANT PURPLE. Pkt., 10c; oz., 75c.

GIANT ROSE. Pkt., 10c; oz., 75c.

GIANT MIXED. Pkt., 10c; oz., 75c.


CHINESE WOOL FLOWER. See Flower Seed Specialties, page 20.

CHRYSANTHEMUM. Annual varieties 1½ to 3 feet high. Very showy for beds and also useful for cut flowers.

NORTHERN STAR. Large, white with soft yellow zone and dark eye. Pkt., 10c.


Burridgeanum. White and red. Pkt., 10c.


Single Mixed. Pkt., 10c; oz., 50c.

Coronarum. Double yellow. Pkt., 10c.

Coronarium album. Double white. Pkt., 10c.

CHRYSANTHEMUM JAPONICUM. Perennial, 2 to 4 feet. Well known plants, flowering in the fall and early winter. Seed should be sown in seed boxes early in the spring, and when large enough transplanted to the open ground. The plants will bloom the following fall.

Hybrids. Fine mixed. Pkt., 15c.

CHRYSANTHEMUM FRUTESCENS. "White Marguerite." Perennial, 3 to 4 feet high. A well-known flower. Sow the seed in the same way as the Japanese varieties. Pkt., 10c.

CINERARIA HYBRIDA GRANDIFLORA. Biennial, but treated as an annual in California. Height 1½ to 2 feet. Magnificent plant for pot culture in greenhouses, or may be planted out in sheltered and partially shaded situations. Sow the seed in August or September in seed pans, and as soon as large enough pot off into small pots and afterwards transfer to larger pots as required. The strain I am offering is the very best, procured direct from one of the most celebrated growers in Europe, and may be relied upon to produce large flowers of the most exquisite colors. Pkt., 50c.

Separate Colors. See Flower Seed Specialties, page 20.

STELLATA. See Flower Seed Specialties, page 20.

CLARKIA. Annual, 2 to 4 feet high. Free flowering and of easy culture.

Elegans. Fine mixed. Pkt., 10c; oz., 40c.

Elegans rosea. Rose pink. Pkt., 10c.

Elegans Salmon Queen. Double, salmon pink. Pkt., 10c.

Elegans, Scarlet Queen. Double scarlet. Pkt. 10c.

puilchella. Red. Pkt., 10c.

CLANTHUS DAMPIERI. "Australian Desert Pea." Perennial, 4 feet high. Bears pea-shaped, 3 inches or more in length, of a brilliant rich scarlet color marked with a large black blotch in the center. The plants prefer a dry, sunny situation. Pkt., 15c.


COBAEA SCANDENS. Perennial climbing vine attaining a height of 30 feet or more and blooming freely the first season. Valuable for covering trellises, arbors, etc. Large bell-shaped flowers. Sow seed early in the spring in seed boxes, and as soon as large enough transplant to the open ground. Pkt., 10c.

COLEUS. Perennial, 1½ to 2 feet high. Magnificent foliage plant. For pot culture or for planting out during the summer season. Sow the seed in pots or seed pans, covering with ½ inch of soil, and as soon as large enough pot off into small pots.

New large-leaved varieties. The finest strain procurable. Producing large leaves of the most brilliant and showy colors. Pkt., 15c.

Fine mixed. Pkt., 15c.

COLLINSIA BICOLOR. "Innocence." Annual, 1 to 2 feet high. Of slender, graceful habit, with bright green foliage. Flowers in clusters regularly disposed, suggesting rows. Upper lip white or lilac, lower violet or rose-purple. Pkt., 10c; oz., 35c; lb., $4.50.

CONVOLVULUS MAJOR. "Morning Glory." Annual climbing vine attaining a height of about 15 feet. Useful for covering fences, trellises, etc. Soak the seeds in warm water for a few hours before planting.

White, rose crimson, dark blue, or mixed. Each, per pkt., 10c.

minor. "Dwarf Morning Glory." Annual, 1 foot. Flowers similar to the "Morning Glory," but smaller and remaining open all day in fine weather. Very pretty for borders or grown in masses in beds. All colors, fine mixed. Pkt., 10c.

marmelianus. Perennial, trailing plant. Valuable for rock work or hanging baskets. Flowers a rich shade of lavender. Soak the seeds a few hours in hot water before planting. Pkt., 10c.

COREOPSIS LANCEOLATA. Perennial, 2 feet high. Large, showy, bright yellow flowers produced in great abundance. Much used for cutting purposes. Pkt., 10c.

CORNFLOWER. See CENTAUREA.

COSMOS. Annual, producing large single flowers much used for cutting purposes. The plants vary in height according to the time of year at which they are planted. If sown in the spring they grow very tall, from 5 to 8 feet high, and flower in the fall, but if the seed is sown in the fall, about October, they will flower in about 2 months and the plants will be dwarf, from 1½ to 2 feet high and are very pretty for massing in beds. Seed sown in December will form dwarf plants and bloom about March.

Mammouth perfection, white, dark pink, crimson, or mixed. Each, per pkt., 10c; oz., 40c.

Lady Lenox. Very large flowers; a lovely shade of shell pink. Pkt., 10c; oz., 50c.

Lady Lenox White. Very large flowers, pure white. Pkt., 10c; oz., 50c.

Aconite Flowered. See Flower Seed Specialties, page 20.

New Double. See Flower Seed Specialties, page 20.

COSMOS KLONDYKE. Annual, 2 to 3 feet. Deep orange-colored flowers 2½ inches in diameter, blooming in the fall. Pkt., 15c.

CUCUMBER WILD. (Echinocystis lobata). A quick growing annual vine for covering trellises, etc. Pkt., 10c.
CYCLAMEN PERSICUM. Perennial, 8 to 10 inches. Charming plants with rich colored, fragrant flowers. Blooming in winter and spring. Generally grown as a pot plant. The seed may be sown in the spring or early in the fall in seed pans of rich soil mixed with leaf-mould and sand and potted on when large enough.

CYPRESS VINE. A popular annual climbing vine with delicate fern-like foliage and masses of small star-shaped flowers. Sow early in spring; soak the seed in warm water a few hours before sowing. Scarlet, white or mixed. Each, per pkt., 10c.

DAISY. See BELLIS.

DAHLIA. Perennial, 4 to 6 feet, flowering the first season from seed. Well known plants with large, showy flowers, useful for beds and masses. Sow the seed early in spring in seed boxes and afterwards transplant to the open ground. Dahlias like a rich soil with plenty of well rotted manure and should be watered occasionally. Dahlias from seed many of them will come semi-double, although the seed is saved from the very best double varieties. The best varieties should be marked when in flower and at the end of the season the poor ones discarded and the better ones can be taken up and divided and again replanted.

Caecus. Double, with long pointed petals; seeds saved from one of the best collections. Mixed colors. Pkt., 15c.

Double, Large Flowered. Mixed colors. Pkt. 15c.

Paenony Flowered. Large, mixed colors. Pkt. 15c.

Single. All colors; splendid mixed. Pkt., 10c.


DIMORPHOTHECA AUANTICA. "African Orange Daisy." Annual, 12 to 15 inches high. One of the very best winter flowering plants yet introduced. By sowing the seed in September or October, it can be had in bloom as early as January and will flower continually until late spring or early summer. The marguerite-like blossoms, about two and a half inches in diameter, are of a unique, glossy orange-yellow, this brilliant coloring being rendered more conspicuous by the dark colored disk, which is surrounded by a blath zone. When in full bloom on bright sunny days it is truly a magnificent sight, for brilliancy of color almost rivaling the California Poppy. It is especially adapted for planting in masses in beds or borders and parkings. Pkt., 10c; oz. $1.50.

Hibiscus. Splendid new hybrids, colors range from white, lemon yellow, golden, yellow, orange to salmon. Pkt., 15c.

ESCHSCHOLTZIA CALIFORNICA. "California Poppy." Annual, 1 to 1½ feet high. A well known native flower with blossoms 2 to 3 inches in diameter. Yellow, Orange, White, or mixed. Each, pkt., 10c; oz., 36c.

Burbank's Crimson-flowering. Crimson. Pkt. 10c.

Rose Cardinal. White and rose. Pkt, 10c.

Carolinas King. Carmine-rose. Pkt. 10c.

Golden West. Canary-yellow with orange blotch at base of each petal. Pkt. 10c; oz., 40c.

Eschscholtzia Californica, "California Poppy"

DELPHINIUM. "Perennial Larkspur." Perennial, 3 to 6 feet high. Beautiful summer flowering plants with long spikes of showy flowers. Sow the seed in spring or early fall in seed boxes and afterwards transplant to open ground.

Bella donna. See Flower Seed Specialties, page 20.

Gold Medal Hybrid. Extremely large flowers in all the richest shades of blue. Pkt., 15c.

Blue Butterfly. Distinct variety growing about 18 inches high, flowering first season from seed. Placed for its large panicles of large, single, Salvia-blue flowers. Pkt. 15c.


DIANTHUS CHINENSIS. Biennial, but generally treated as an annual; 1 foot high. Charming free-flowering plants with flowers of the most brilliant color, valuable for potting thickly in beds. chinensis. Fine mixed. Pkt., 10c.

Heddewigii. Single fine mixed. Pkt., 10c.


Hybridus. Double mixed. Pkt., 10c.

laevis. Single fringed, fine mixed. Pkt., 10c.


Mandarin. Inside of petals rich orange, outside orange-scarlet. Pkt., 10c.

Mikado. Brilliant orange-crimson. Pkt. 15c.

Orange Flame. New, orange scarlet. Pkt. 25c.


Tango. New, bronze red and terra cotta. Pkt. 25c.


Vesuvius. Wallflower red. Pkt. 15c.

Thorburni. Crimson outside, inside bright flame and gold. Pkt. 15c.

PERICLES. See Flower Seed Specialties, page 20.

GAillardia Picta. Annual, 1 to 1½ feet high. Sow in early spring.

Barker's Crimson and orange. Pkt., 5c.

GAIALLARIDIA GRANDIFLORA. Perennial, 1½ feet. Large flowered varieties, fine mixed. Pkt., 10c.

GERANIUM. Well known perennial with many varieties, splendid mixed. Pkt., 15c.

GEUM COCCINEUM, Mrs. Bradshaw. Splendid perennial which blooms for the greater part of the year. Grows 1½ to 2 feet high and produces a profusion of large double bright scarlet flowers. Pkt. 15c.

Lady Stratheden. See Flower Seed Novelties, pg. 20.

GLOXINIA HYBRida. A striking greenhouse plant, height about 8 inches, with large handsome foliage and immense trumpet-shaped flowers which are of a texture of the most brilliant shades of violet, purple, crimson, scarlet, pink and lavender. Often beautifully biotched and spotted. Sow the seed in February or March in seed pans of light soil mixed with leaf-mould. Do not
**GILIA TRICOLOR.** "Bird’s Eyes." Annual, 9 inches to 1 foot high. Flowers pale lilac, yellow toward the center, with five purple spots. Charming combination of colors. Pkt., 10c; oz., 40c; lb., 5.00.

**GODETIA.** Annual, 1 to 2 feet high, with large, showy flowers. Especially valuable for sowing in partially shady places.

**Duchess of Albany.** Pure white. Pkt., 10c.

**Crimson Glow.** Rich deep crimson. Pkt., 10c.

**Lady Albermarle.** Large, brilliant crimson. Pkt., 10c.

**Lady Sofia Rose.** Bright carmine. Pkt., 10c.

**Hybrids, Mixed Colors.** Pkt., 10c; oz., 50c.

**GOMPHRENA GLOBOSA.** "Globe Amanthus." Annual, 1½ to 2 feet high. Producing numerous flowers resembling clover heads, which are cut and dried as an everlasting flower. White, pink, purple and striped, mixed. Pkt., 10c.

**GYPSOPHILA ELEGANS.** Annual, 1½ to 2 feet high. Much used for bouquets for mixing with carnations and other flowers. Flowers small, white; blooming best in the winter season. Pkt., 10c; oz., 40c.

**paniculata.** Perennial, 2 feet high. Flowers smaller than the preceding. White and used for bouquets. Blooms during the summer season. Pkt., 10c.

**HELIANTHUS, New Red Sunflower.** cover the seed, but sow on the surface and press down firmly with the hand and water with a fine spray. Keep in a greenhouse; when plants are large enough, pot off as required. All colors, splendid mixed. Pkt., 25c.

**HELIANTHUS.** GILIA, HELICHR. HELIANTHUS. Large, shady Lady striped, best and gold. Sow the seed in spring when the weather is warm and settled. Pkt., 10c.

**HUMULUS JAPONICUS VARIEGATUS.** "Japanese Hop." A beautiful annual climbing plant. Leaves marbled and mottled with variegation. Very effective for screens, arbors, etc. Sow the seed in spring when the weather is warm and settled. Pkt., 10c.

**HUNNEMANNIA FUMARIAEFOLIA.** "Mexican Poppy." Perennial, 2 to 3 feet. Large flowers resembling the California poppy, but seed is produced in the fall. Flowers deep in color; best for cutting. Pkt., 15c.

**HELIANTHUS.** Double, Mixed. Each, per pkt., 10c.

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**HUNNEMANNIA FUMARIAEFOLIA.** "Mexican Poppy." Perennial, 2 to 3 feet. Large flowers resembling the California poppy, but seed is produced in the fall. Flowers deep in color; best for cutting. Pkt., 15c.

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**HELIANTHUS.** Double, Mixed. Each, per pkt., 10c.
LOBELIA CARDINALIS. Queen Victoria. Perennial, 3 feet. Dark bronze foliage and brilliant scarlet flowers. Sow seed the same as the annual varieties. Pkt., 10c.

LOVE-LIES-BLEEDING (Amaranthus caudatus). Annual, 2 feet high, with large drooping panicles of blood-red flowers. Seed should be sown in the spring where the plants bloom during summer. Pkt., 10c.

LUPINUS, ANNUAL VARIETIES MIXED. 1 to 3 feet high. Well known free flowering plants. Pkt., 10c.

Lupinus, ANNUAL VARIETIES MIXED. 1 to 3 feet high. Long spikes of large flowers. Sky blue, dark blue, pink, white, or mixed. Each per pkt., 15c.

LUPINUS ARBOREUS, SNOW QUEEN. Perennial, 4 feet. A magnificent variety, producing long spikes of pure white flowers. Sow in fall either in the open ground where the plants are to remain, or in pots, and afterwards transplant. Pkt., 15c.

New Hybrids. A splendid new strain, producing large flowers in different colors. Pkt., 10c.


Paynel. See Flower Seed Novelties, page 21.

MADOLE GRANDIFLORA PURPUREA. Annual, 2 feet high. Flowering well during the summertime. Large crimson flowers. Pkt., 10c.

M. Red. Pkt., 10c.


MARIGOLD, AFRICAN. Annual, 3 feet. Flowering in summer and fall. These flowers are large, double and very showy. Sow in spring. Lemon Ball. Soft lemon-yellow. Pkt., 15c; ½ oz., 60c. Orange Ball. Deep orange. Pkt., 15c; ½ oz., 60c.

Double fine mixed. Pkt., 10c; ½ oz., 40c.


Dwarf double mixed. Pkt., 10c.


MARGARITARIA EXPOSI. Annual, ½ feet of easy culture. Fine for cutting. Double white. Pkt., 10c.

MAURANDIA. Perennial clumper, 6 feet. Delicate foliage and pretty trumpet-shaped flowers. Sow early in spring and the plants will bloom the first season. Mixed colors. Pkt., 10c.

MECONOPSIS. See Flower Seed Specialties, page 21.

MESEMBRYANTHEMUM. Dwarf, trailing, annual. Blooming during the summer. Sow the seed in spring in a warm, sunny situation. crysllallnum. "Ice Plant." Flowers white. Foliage has the appearance of being coated with ice. Pkt., 10c.


Allen's Defiance. A large variety with immense spikes. Pkt., 10c; oz., 60c.

Goliath. Bright red, large spikes. Pkt., 10c; oz., $1.00.

MEMO PUDICA. "Sensitive Plant." Annual, 2 feet. A curious plant with pinnate leaves which close up immediately when touched. Sow in seed pans early in spring. Pkt., 10c.

MIMULUS. Perennial plants of great beauty, succeeding best in a moist, shady place. Sow the seed in the fall in seed pans of light soil mixed with leaf-mould; sow the seed on the surface and water with a fine spray. Pot off the plants when large enough, and later plant out in the open ground.

tigrinus grandiflorus. "Monkey Flower." Height 1½ feet, spotted and blotched varieties, fine mixed. Pkt., 15c.


MINA LOBATA. Beautiful annual climbing vine attaining a height of 10 to 12 feet. Flowers in long, graceful spikes; color bright red, changing to orange and cream. Sow in spring in a warm, sunny situation. Pkt., 10c.

MIRABILIS JALAPA. "Marvel of Peru" or "Four- o'clock." Free flowering annual of bushy habit, growing 3 to 4 feet high and flowering throughout the summer. All colors mixed. Pkt., 10c.

MOMORDICA BALSAMINA. "Balsam Apple." Annual climbing vine, 8 to 10 feet, with large leaves making a dense shade. The flowers are followed by orange-colored warty fruits, which burst, showing the seed and its brilliant carmine covering. Pkt., 10c.

MYOSOTIS. "Forget-me-not." Perennial, 1½, 4 inches, succeeding best in a shady, moist situation. Sow the seed in the fall in seed boxes and transplant.

ulpestris. Bright blue. Pkt., 10c.

discolorata. Of compact habit; deep blue. Pkt., 15c.

NASTURTIUM, TOM THUMB. Annual, 8 inches to 1 foot; useful for bedding and borders, flowering through the summer and also through the winter in locations where they are not cut by the frost. Lady Bird. Orange-yellow, red spots. Pkt., 10c.

Ruby King. Light ruby-red. Pkt., 10c.


Golden King. Indian yellow, dark foliage. Pkt. 10c.

King of Tom Thumbs. Scarlet, dark foliage. Pkt., 10c.

Empress of India. Crimson, dark foliage; dwarf and compact; effective for beds and edging. Pkt., 10c.

Vesuvius. Salmon Rose. Pkt., 10c.

Yellow. Pkt., 10c.

All colors mixed. Pkt., 10c; oz., 25c; lb., $2.00. 

African Marigold, Orange Ball
NASTURTIUM TALL. Climbing annual, 6 to 10 feet, of easy culture. Useful for covering fences, trellises, etc., and also very effective when allowed to run on the ground.


Dunnett’s Orange (Sunlight). Yellow. Pkt., 10c.

Crimson. Velvety crimson. Pkt., 10c.

Fordhook Fashion. Terra cotta on yellow ground. Pkt., 10c.

Rose. Salmon rose. Pkt., 10c.

Scarlet. Bright scarlet. Pkt., 10c.

NiEREMBERGIA. Prince Jupiter. 10c.

Baskets, 65c.

NEMESIA. See Flower Seed Specialties, page 21.

NEMOPHILA. A beautiful native annual, 4 to 6 inches high and flowering in 3 or 4 weeks from the time of sowing.

Insignia. “Baby Blue Eyes.” A delicate little plant; flowers clear azure blue. Pkt., 10c; oz., 35c; lb., $4.00.

Moonlanta. White spotted with purple. Pkt., 10c; oz., 35c; lb., $4.00.


NODOSA DRUMMOND. “Evening Primrose.” Annual; 2 to 3 feet, with large yellow flowers. Succeeds well in a partially shaded place. Pkt., 10c.

PANSIES

Truly speaking, a perennial, but an annual in California. To obtain the best results the seed should be sown in August, September, or early part of October. Prepare a bed in the open ground in the following manner: Dig up the ground and level off the surface. Take some good garden soil and run it through a sieve, mix this with some good rotted manure and sand which has also been screened, using about two parts of soil to one of manure and one of sand. Spread this soil over the surface, press it down, and level off with a board. Sow the seed broadcast, covering it with about an eighth of an inch of the same soil, and again press the surface down with a board. Take a piece of burlap the size of the bed and stretch it out over the ground. Place some pieces of wood around the edge to keep the burlap from blowing away, and keep it well watered, using a fine spray. As soon as the seed has sprouted, take the burlap off and nail it over a wooden framework the same size as the bed. Support this at each end by two small posts and a cross piece, placing this frame about one foot from the ground. After about a week, remove this framework, except during the hottest part of the day. In two or three weeks it can be discarded entirely. When the plants are large enough to handle, transplant to beds of rich, well prepared soil, and cover the surface with a layer of well rotted, sifted manure. Pansies prefer a rather heavy soil with plenty of well rotted manure; this is very essential. Indeed, it is almost impossible to use too much manure on pansies and the richer the soil the larger and more perfect will be the flowers. Later sowings may be made up to the beginning of February, but they will not do as well as those sown early in the fall and the blooming period will be much shorter.

Payne’s Royal Exhibition Pansies

Payne’s Royal Exhibition. See Flower Seed Specialties, page 21.

Bugnot’s Superb Blotted. Extra large, rich colors, each petal having a broad, deep blotch, many of them beautifully lined or pencilled. Pkt., 50c.

Cassier’s Large Flowered Blotted. A splendid strain; flowers beautifully blotched, of richest shades. Pkt., 25c.

Masterpiece. “Frilled Pansy.” A grand new class, each petal being conspicuously waved or curled, giving the flower a double or globular appearance. Rich colors, mostly of the dark, velvety shades. Pkt., 25c.

Stout’s Mistsoton. Immense flowers, mixed colors. Pkt., 25c; ½ oz., $1.00.

English Show or Facing Pansy. Mixed. Pkt., 15c.

GIANT PANSIES, SEPARATE COLORS

The following varieties, per pkt., 15c; ½ oz., 65c.

GIANT MUSTARD. White and shining rose, beautifully blotched.

GIANT BRIDESMAID. White and shining rose, beautifully blotched.

GIANT BRIGHT BLUE. Ultramarine blue.

GIANT DARK BLUE. Darkest blue.

GIANT GOLDEN YELLOW, FIVE SPOTTED, a beautiful flower of Cassier type.

GIANT GOLDEN QUEEN. Pure yellow.

GIANT KING OF THE BLACKS. Velvet black.

GIANT LIGHT BLUE. Pale blue.

GIANT LORD BACONSFIELD. Violet, upper petals shading to white.

GIANT MADAME PERRET. Beautiful wine shades on white ground.

GIANT PEACOCK. Royal purple and peacock blue.

GIANT SNOWFLAKE. Pure white.

GIANT WHITE. White with purple eye.

GIANT YELLOW. Yellow with black eye.

GIANT BRONZE. Bronze shades.

GIANT PURPLE. Deep purple.

GIANT MIXED.
PETUNIA. Perennial, 1 to 1 1/2 feet. Charming plants for large beds and borders, succeeding well in a sunny situation and blooming for the greater part of the year. Sow the seed in February in seed pans or boxes of light soil, cover the seed very lightly and water with a fine spray. When the plants are large enough, transplant to the open ground. Note.—Seed saved from the most carefully hybridized flowers, produce about 30 per cent double flowers, the balance being singles of unusually fine quality. The weaker seedlings should be carefully saved, as these invariably produce the double flow-ers. In a measure the same is true of the single sorts, the small, weak seedlings generally produce the largest and finest flowers, while the large, strong seedlings usually turn out to be the most common types.

Double Fringed. Large flowered, mixed colors. Pkt., 50c.

Double Large Flowered. All colors mixed. Pkt., 25c.


Heleny Petunia. A new strain, very free flowering, desirable for window boxes, rock work, banks, and borders. Flowers large and of good substance.

Heleny White. Pkt., 25c.

Heleny Crimson. Pkt., 25c.

Heleny Rose. Pkt., 25c.

Heleny Blue. Pkt., 25c.


Rosy Morn. A dwarf, compact variety with rose-colored flowers, especially desirable for bedding. Pkt., 15c.


PHLOX DRUMMONDI GRANDIFLORA. Beautiful annuals, growing about 1 foot high with brilliant colored flowers, producing a dazzling display of color when planted in masses, in large beds or borders. Sow in seed boxes and when large enough, transplant to the open ground.

Large Flowered white, chamois rose, scarlet, crimson, red with white eye, pink, yellow, or mixed. Each, per pkt., 10c.

nana compacta Fireball. Dwarf, rich scarlet Pkt., 10c.

PHLOX DECCUSATA. "Perennial Phlox." This splendid, free flowering perennial is deserving of a place in every garden. The plants grow about 3 feet high and produce large heads of flowers of the most beautiful shades. Sow the seed in the fall in seed pans and afterwards transplant. All colors splendid mixed. Pkt., 15c.

POLYANTHUS. (Primula elatior.) Perennial, 6 to 8 inches; succeeding best in a partially shaded place and flowering during winter and early spring. Sow the seed in spring in seed boxes and transplant. Large flowered choice mixed. Pkt., 15c.


POPPY. ANNUAL SORTS. Showy flowers for beds and borders, also very effective for sowings broadcast on waste pieces of ground. The best results will be obtained by sowing in fall or early winter.

Shirley. Single flowers of the most delicate crepe-like texture and every conceivable shade of color from white, flesh-color, pink, rose, carmine, scarlet to deep crimson. Pkt., 10c; oz., 50c.


Shirley, Apricot Shades. Pkt., 10c.


Tulip. Large single tulip-like flowers, color dazzling scarlet. Height 1 1/2 to 2 feet. Pkt., 10c; oz., 50c.

Admiral. Large single flowers, pure white with a broad band of brilliant scarlet around the upper part of the flower. Pkt., 10c.

Danubro or Danish. Large single flower, brilliant scarlet with silvery white spot on each petal forming a white cross. Height 3 feet. Pkt., 10c.

Umbrum. Single flowers, rich vermilion with deep black spot at base of petal. Height 2 feet. Pkt., 10c.

Miss Sherwood. Large single flowers, satiny-white, the upper half of petals chamois rose. Height 3 feet. Pkt., 10c.

King Edward. Large single flowers; deep scarlet, shaded crimson, with large black blotch on lower half of each petal. Height 3 to 4 feet. Pkt., 10c; oz., 50c.

Carnation Flowered. Large double fringed flowered, mixed colors. Height 3 to 4 ft. Pkt., 10c; oz., 40c.

White, Rose and Scarlet. Each, per pkt, 10c.

Paeony Flowered. Large double globular flowers, mixed colors. Height 3 to 4 feet. Pkt., 10c.

Ramunculus Flowered. Double flowers about 2 inches in diameter and of every imaginable shade of color. Height 2 feet. Pkt., 10c; oz., 50c.

Ryburgh Hybrids. See Flower Seed Specialties, page 21.


FLANDERS. See Flower Seed Specialties, page 21.

POPPY, ICELAND. (Papaver nudicaule.) A perennial, blooming the first season from seed. Pretty, grayish, fern-like foliage formed in tufts, from which rise numerous slender stems about 1 foot high, bearing single bright colored flowers. Sow the seed in seed boxes and transplant. White, yellow, deep orange and mixed. Each, per pkt, 10c.
POPPY, ORIENTAL. (Papaver orientale.) A perennial producing many thick, leafy stems, 3 to 4 feet high, with large, deep crimson flowers, having a black blooded orach petal, exceedingly showy. Sow the seed in spring or early in the fall in seed boxes; when large enough, pot up into small pots and later transplant. Pkt., 15c.

Oriental Hybrids. Splendid hybrids of the Oriental Poppy, producing immense flowers, 6 inches or more in diameter and of many beautiful shades of pink, salmon, orange, scarlet, etc. Treat the seed the same as the preceding variety. Pkt., 15c.

PORTULACA. A low spreading annual about 6 inches high, flowering in a short time from seed and blooming through the entire summer season. Very effective for massing in beds, producing a perfect carpet of brilliant colors. Sow the seed in spring after the weather has become warm and settled.

Admiral Poppies. Pkt., 15c

PRIMULA SINENSIS Fimbriata. "Chinese Primrose." Beautiful greenhouse plants, blooming in winter and spring. Sow the seed in August or September in pots or seed pans of rich loam mixed with sand, cover the seed lightly and keep in a greenhouse; when large enough, pot into small pots and later to larger pots as required. The seed offered here is of the finest strains, imported direct from one of the best European growers.

Bright Rose Large. Pkt., 25c.
Snow Queen. Pure white, extra fine. Pkt., 25c.
Choice mixed. Pkt., 25c.

PRIMULA SINENSIS STELLATA. "Star Primroses." A new strain of Primulas, though the flowers are slightly smaller than $P.$ sinensis fimbriata the plants are of more robust growth and produce flowers much more freely.

Choice mixed. Pkt., 25c.

PRIMULA KEWENISI, Yellow, very desirable for outdoor culture. Pkt., 25c.

PRIMULA OBCONICA GIGANTEA. A charming little plant for pot culture. Perennial but blooming in a few months from seed; height 6 to 8 inches. A profuse bloomer, bearing heads of 10 to 15 flowers on long stems. Sow the seed in August or September in pots or seed pans of light, rich loam and keep in a frame or greenhouse, pot up when ready. Mixed colors, Pkt., 25c.

PRIMULA MALACOIDES. See Flower Seed Specialties, page 22.

PYRETHRUM. "Golden Feather." Pretty foliage plants with deeply cut leaves, useful for edging; perennial, 6 to 9 inches. The plants should be kept trimmed and all flowers cut off as they appear. Sow the seed in boxes, covering very lightly, and when large enough, transplant.

Pentstemon hartwegi grandiflorus

PYRETHRUM ROSEUM. Perennial 1 to 2 feet. Fern-like foliage and large marguerite-like flowers, very desirable for cutting.

Roseum. Rose pink. Pkt., 15c.

RHODANTHE. A graceful little "Everlasting Flower," annual, 1 foot high. Treat the same as Acroclinium. Pink, rose, white, crimson, etc., mixed. Pkt., 10c.

RICINUS. "Ornamental Castor Bean." Rapid growing plants with immense, rich colored leaves, producing a sub-tropical effect planted on lawns or in clumps. Height 6 to 10 feet. Sow in spring when the weather has become warm and settled.

Cambiodesmus. Main stem and leaf stalks rich, shining Ebony, leaves large, maroon with red veins. Pkt., 10c.

Gibsoni. Dark purplish red foliage and stems. Pkt., 10c.

Zausizarianus. Very large, dark leaves, with red-dish stems. Plants grow to immense size. Pkt., 10c.

ROMNEYA COUTERI. "Matilija Poppies." A native of California; perennial, 6 to 10 feet high and of shrubby growth. The queen of California flowers; truly a majestic plant. The plant throws up numerous woody stems with handsome gray-green foliage, topped with large numbers of flowers. The blossoms are often 6 to 7 inches in diameter, of a crepe-like texture, pure glistening white with bright yellow centers. The seed is hard to germinate; some claim to have had success by soaking the seed in a week solution of lye. Pkt., 15c.

SALPIGLOSSIS GRANDIFLORA. Annual, 1½ feet. Free flowering plants for beds and borders; succeeding best in a sunny situation and blooming all summer. The plants are large, funnel-shaped and produced in great profusion. Colors yellow, pink, rose, crimson, brown, steel blue, purple, violet, etc., beautifully veined and penciled. Sow the seed early in spring in seed boxes and transplant when large enough. Mixed colors. Pkt., 10c.
SALVIA PATENS. “Blue Sage.” Perennial, 2 feet, flowering the first season from seed, succeeding best in a partially shaded situation. Flowers the most perfect and bluest when grown in the seed the same as the preceding varieties. Pkt., 15c.

SCABIOSA. “Sweet Scabious.” “Mourning Bride.” Annual, to 3 or 4 feet, flowering in summer and early fall. Flowers produced in great profusion and especially valuable for cutting, lasting a long time in water. Sow from February to April in the open ground. The strawberry form is offering here is a great improvement on the old-fashioned sorts. The flowers are large, often 2 inches in diameter, double and of the most exquisite shades. Large-flowered double. Azure Fairy, King of the Blacks, pink, red, rose, white, or mixed. Each, per pkt., 10c.

SCABIOSA CAUCASICA. See Flower Seed Specialties, page 22.

SCISSANTHUS. Annual, 18 to 24 inches, producing pretty, butterfly-like flowers in great profusion, exquisitely spotted and marked, resembling some orchids in coloring. Large flowered mixed. Pkt., 10c.

SCISSANTHUS WISETONENSIS. See Flower Seed Specialties, page 22.

SEA LAVENDER. One of the most popular of Mr. Burbank’s productions. Perennial, about 2 feet high, flowering for the greater part of the year, but at its best in early summer. Desirable in borders and especially valuable for cutting purposes, flowers lasting a long time in water. Sow in April, 1 oz., in seed boxes, and transplant the seed very lightly; when large enough transplant. Alaska. Flowers often 4 inches across, purest-white with yellow stamens, spreading broad overlapping petals, long stems. Pkt., 15c.

SILENE PENDULA COMPACTA. Annual, forms compact little plants about 6 inches high, flowers rose-colored; useful for edging borders. Pkt., 10c.

SMILAX. Perennial climbing vine, 6 to 8 feet, thriving best in a partially shaded place. Largely grown for decorating purposes. Soak the seed in hot water for a few hours, then sow. Pkt., 10c.

STATICE LATIFOLIA. “Sea Lavender.” Perennial, 18 inches, producing panicles of small lavender blue flowers, which can be cut and dried and used for bouquets. Sow the seed late in spring or early in the fall, in seed boxes, and transplant. Pkt., 10c; oz., 25c.

macrophylla. Large, deep blue. Pkt., 10c; oz., 60c. caspia. New, pale blue, extra fine. Pkt., 10c; oz., 25c.

Sinutsa. Annual, Blue. Pkt., 10c.; oz., 60c.

Bundebulii. Annual, yellow. Pkt., 10c; oz., 60c.

SANTONIA. Annual, deep blue. Pkt., 10c; oz., 60c.

STEVIA SERRATA. Perennial, 2 feet, flowering the first season from seed, furnishing quantities of graceful sprays of tiny white fragrant flowers, valuable for cutting. Pkt., 10c.

STOCKS. “Gilliflower.” A favorite annual, succeeding best in California during the winter season. Largely grown for bedding, lasting a long time in water. Very effective for planting in beds or borders. To obtain the best results the seed should be sown in August, September, or early part of October, in seed boxes of rather light soil, and afterwards transplanted to the open ground. In transplanting stocks care should be taken to save the small or weak growing plants, as these generally produce double flowers, while the strong, robust growing seedling is often single. The seed I offer is obtained direct from one of the best specialists in Europe can be relied upon to produce a large percentage of double flowers.

Dwarf. Large-flowered Ten-week. Of compact growth, 6 to 8 inches high, particularly suitable for bedding. White, bright pink, blood red, purple or mixed. Each, per pkt., 15c.

Nice Giant. See Flower Seed Specialties, page 22.

SUNFLOWER. See HELIANTHUS.

SWEET WILLIAM. Perennial, 1 foot. An old-fashioned flower for beds or borders, producing a great display of flowers and foliage. Sow the seed in early spring; the plants will flower the following year.


Newport Pink. Bright pink. Pkt., 10c.

Single mixed. Pkt., 10c.

Double, all colors mixed. Pkt., 10c.

Anemella. Pkt., 10c.

PAYNE’S GIANT DOUBLE. See Flower Seed Specialties, page 22.


New Giant Piettee Zinnia. See Flower Seed Novelties, page 22.

New Dahlia Flowered Zinnia. See Flower Seed Novelties, page 22.

TACSONIA MANICATA. “Scarlet Passion Vine.” A magnificent perennial climber, producing an abundance of large scarlet blossoms. Sow the seed in poor or seed pans and afterwards transplant. Pkt., 15c.


TARAXACUM PUMILA. A miniature Marigold forming compact little clumps, white in color, completely covered with flowers, which are bright yellow with brown stripe down the center of each petal. Annual flowers in sunny situation, very striking for edgings. Sow the seed in spring in boxes or transplant early in the open ground.

THALICTRUM DIPHTEROCARPUM. Perennial, 2 to 3 feet. Beautiful foliage resembling maidenhair fern; tall graceful stems with small panicles of lilac blossom. Very desirable. Pkt., 10c.

THUNBERGIA ALATA. Annual climbing vine 5 to 6 feet, useful for low fences; also for hanging baskets. Sow the seed in spring. Flowers white, yellow, rose-pink, or red. To be saved for cutting. Pkt., 10c.

TITANIA SPECIOSA. See Flower Seed Novelties, page 22.


VERBENA. Perennial of reclining habit, height 9 to 12 inches. The plants bloom the first season from seed, and are often used for bedding where a list play of color is desired. After they are established they grow with scarcely any attention and a small amount of water. Sow in April, and transplant them to the seed in winter or early spring in seed boxes and when large enough, transplant. Mammoth, White, pink, blue, purple or Scarlet Dianthus, each, per pkt., 10c.

Mammoth, all colors mixed. Pkt., 10c.

Lucifer. See Flower Seed Specialties, page 22.

VERBENA ERINOIDES. “Moss Verbena.” Perennial of trailing habit with finely cut foliage and great quantities of purple flowers. Excellent for planting in parkings and requires very little water. Pkt., 15c.

VIOLA ODORATA. “Sweet Violet.” The favorite fragrant flower, perennial, 6 inches. Succeeding best in a rather shady situation. Sow the seed in winter or early spring, in seed boxes of good loam mixed with some leaf-mould, covering the seed lightly, or they may be sown in a well-prepared bed in a shady situation. Violet seed is slow to germinate. Pkt., 10c.

VIOLA CORNUTA. “Tufted Pansies.” Though the flowers are not as large as the regular pansies, they bloom so freely that they are often superior where a mass of color is desired. The plants bloom for a long period and the colors are particularly clear for the mixed. The flowers are light and graceful, and not so stiff as those of the regular pansies. Sow the seeds in boxes or transplant to sunny beds or boxes of light, rich soil and afterwards transplant. Pkt., 10c.

Admiration. Dark blue. Pkt., 15c; 1 oz., 75c.

Papilio. See Flower Seed Specialties, page 22.

Lutea splendidus. Clear yellow. Pkt., 15c; 1 oz., 75c.

Mix colors. Pkt., 15c; 1 oz., 75c.

WALLFLOWER. An old-fashioned fragrant flower: biennial, 1 to 1½ feet. Sow the seed in spring and transplant. The plants will flower the following winter.

Bird red. Dwarf compact plants. Pkt., 10c.

Single mixed. Pkt., 10c.

Double mixed. Pkt., 15c.


Winter Flowering. See Flower Seed Novelties, page 22.

ZINNIA ELEGANS. A favorite summer flowering annual for beds and borders, thriving best in a sunny situation. The seed can be sown early in spring in seed boxes or transplanted, or later, in an open ground.

Double, all colors mixed. Height 1½ to 2 feet. Pkt., 10c.

Lilacip. Dwarf, very small, perfectly double flowers; mixed colors. Pkt., 10c.

Payne’s Giant Double. See Flower Seed Specialties, page 22.

New Giant Double Quilled, Victory. See Flower Seed Novelties, page 22.

New Giant Piettee Zinnia. See Flower Seed Novelties, page 22.

New Dahlia Flowered Zinnia. See Flower Seed Novelties, page 22.
Payne's Sweet Peas

Can be sown at any time from October to March; early planting will produce the best results. They require an open situation, good rich soil and plenty of water. Sow in drills covering the seed about 2" deep or a trifle more in light soils. When about a foot high draw the earth up to the stems with a hoe. They should have brush, sticks or wire netting to climb over. By keeping the flowers gathered and any dead flowers cut off, the plants will bloom for a long period.

Payne's Spencer Sweet Peas

The Spencer Sweet Peas have large, round, open flowers of extraordinary size, often 2 inches across, with wavy standard and wide-spreading wings, a large number of the flowers coming four on a stem. This class has now superseded the old large flowered type of sweet peas and there has been great improvement in the varieties in the last few years. I have discarded many of the older varieties for newer and better ones. The following list contains the very best varieties of each color to date.

Barbara. Salmon pink. Pkt. 15c; oz. 50c.

Constance Hinton. Pure white, large flower. Pkt. 15c; oz. 50c.

Elfrieda Pearson. Shell pink. Pkt. 15c; oz. 40c.

Fiery Cross. Brilliant orange cerise. Pkt. 15c; oz. 50c.

Havelmark Pink. Bright rose pink, shaded salmon. Pkt. 15c; oz. 50c.

Hercules. Rosy pink, immense flower. Pkt. 15c; oz. 40c.

Mrs. Tom Jones. Bright delphinium blue. Pkt. 15c; oz. 50c.

New Buttercup. Deep rich cream. Pkt. 15c; oz. 50c.

Picture. Delicate pink on cream ground. Pkt. 15c; oz. 50c.

R. F. Felton. The best lavender. Pkt. 15c; oz. 50c.

Rosabelle Light rose pink, very large. Pkt. 15c; oz. 50c.

Royal Purple. Deep rich purple. Pkt. 15c; oz. 40c.

Royal Scott. Glowing orange scarlet. Pkt. 15c; oz. 50c.

Tangerine Improved. Glowing orange. Pkt. 15c; oz. 50c.

The Cardinal. Intense poppy scarlet. Pkt. 15c; oz. 50c.

Warrior. Deep rich maroon. Pkt. 15c; oz. 50c.

Wedgewood. Light blue, extra fine. Pkt. 15c; oz. 40c.

Spencer Mixed. Pkt. 15c; oz. 30c; 1/2 lb. $1.00.

SPECIAL OFFER. Six varieties Payne's Spencer Sweet Peas in separate packets for 75c.

New Winter Flowering or Long Season Spencer Sweet Peas.

A new race of Sweet Peas, having the large waved flowers of the Spencer type, but flowering fully two months earlier, they also continue in flower for a much longer period. For Christmas flowering sow in September; later sowing may be made up until March.

Apricot Orchid. Buff pink. Pkt. 25c; oz. $1.00.

All White. Pure white, large flowers. Pkt. 25c; oz. $1.00.

Amethyst. Royal purple. Pkt. 25c; oz. $1.00.

Aviator. Dazzling crimson scarlet. Pkt. 25c; oz. $1.00.

Bluebird. Violet blue. Pkt. 25c; oz. $1.00.

Columbia. Pink and white, large. Pkt. 25c; oz. $1.00.

Fair Maid. Blush pink and salmon. Pkt. 25c; oz. $1.00.

Gilters. Glowing scarlet cerise. Pkt. 25c; oz. $1.00.

Harmony. Clear lavender. Pkt. 25c; oz. $1.00.

Helen Lewis. Orange salmon. Pkt. 25c; oz. $1.00.

Hercules. Rosy pink, very large. Pkt. 25c; oz. $1.00.

Quaker Maid. Clear mauve. Pkt. 25c; oz. $1.00.

Rose Charm. Bright rose, large. Pkt. 25c; oz. $1.00.

Yarrawa. Bright rose pink with light wings. Pkt. 25c; oz. $1.00.

Zolamek's Blue. Blue, extra fine. Pkt. 25c; oz. $1.00.

Zolamek's Rose. Rose pink. Pkt. 25c; oz. $1.00.

Early Choice mixed. Pkt. 25c; oz. 75c.

SPECIAL OFFER—Five varieties Payne's New Winter Flowering Sweet Peas in separate packets for $1.00.

Payne's Christmas Flowering Sweet Peas

The Christmas or forcing varieties of Sweet Peas are quite distinct from the other kinds, being an extra early race, flowering early in winter at a time when the other kinds will not bloom. By sowing them late in summer, they can be had in full bloom at Christmas time.

Christmas Pink. Pink and white. Pkt. 10c; oz. 30c.

Christmas White. Pure white. Pkt. 10c; oz. 30c.

Mrs. Alex. Wallace. Lavender. Pkt. 10c; oz. 30c.

Mrs. F. J. Dolansky. Clear pink. Pkt. 10c; oz. 30c.

Christmas Mixed Pkt. 10c; oz. 25c; 1/4 lb. 75c.

Elfrida Pearson Spencer Sweet Pea

Illuminator. Brilliant orange scarlet. Pkt. 15c; oz. 50c.

King Edward. Crimson scarlet, very large flower. Pkt. 15c; oz. 40c.

Margaret Atlee. Rich pink suffused with salmon. Pkt. 15c; oz. 10c.
CALIFORNIA WILD FLOWER SEEDS

I make a great specialty of California Wild Flower Seeds, and publish a special catalogue over 100 beautiful species, with notes on their culture and care. This booklet is published exclusively on California Wild Flower seeds ever published, and will be mailed on receipt of price, 15 cents.


Collinsia elegans. “Clarkia.” Annual, 3 to 6 feet. A slender growing plant; flowers purple with white and crimson band. Thrives best in shade. Pkt., 10c; oz., 40c; lb., $1.00.


Dendromecon rigidum. “Tree Poppy.” Perennial shrub, 4 to 8 feet high. Bright yellow flowers, 3 inches or more in diameter. Seed is hard to germinate. Pkt., 10c.


Encelia californica. “Bush Sunflower.” Perennial shrub, 2 to 5 feet high; found on dry banks, blooming in the spring and early summer. Flowers bright yellow with dark centers. Pkt., 10c.


Flaerkin douglasii. “Meadow Foam.” Annual, of low spreading habit; flowers cream-colored. Prefers a moist location. Pkt., 10c; oz., 50c.


Gilia tricolor. “Birds’ Eyes.” Annual, 9 to 12 inches. Flowers pale lilac, yellow toward the center, with five purple spots. Pkt., 10c; oz., 40c; lb., $5.00.

Goeletia amoena. “Farewell to Spring.” Annual, 1 to 2 feet high. A slender growing plant, usually found on shady banks. lilac-crimson or red-pink, often with a dark center. Pkt., 10c; oz., 60c; lb., $1.00.

Goeletia botanica. “Farewell to Spring.” Annual, 2 to 3 feet high. Flowers pale rose or lilac. Prefers a partially shady place. Pkt., 10c; oz., 75c; lb., $1.00.

Goeletia grandiflora. “Farewell to Spring.” Annual, 1 to 2 feet high. Flowers large, delicate pink, marked with darker crimson. Pkt., 10c; oz., 60c; lb., $1.00.

Helianthus annuus. “Sunflower.” Annual, 5 to 8 feet high. Flowers yellow with dark brown centers. Pkt., 10c; oz., 60c.


Lunatus densiflorus. “California Phlox.” Annual, 1 to 2 feet high. Flowers in crowded clusters of pink and purple with yellow throat. Pkt., 10c; oz., 60c.

Lupinus afghanus. “Blue Lupine.” Annual, 1 to 2 feet. Flowers blue and purple. Pkt., 10c; oz., 40c; lb., $5.00.

Lupinus arboreus. “Yellow Tree Lupine.” Shrubby perennial, 4 to 10 feet high. Flowers rich sulphur yellow. Pkt., 15c; oz., 60c.


Lupinus annus. “Dwarf Blue Lupine.” Annual, 10 to 15 inches high. A very showy plant; flowers rich blue and white, fragrant. Pkt. 10c; oz., 40c; lb., $6.00.

Lupinus payneli. “Payne’s Tree Lupine.” Shrubby perennial, 4 to 6 feet high. Flowers fragrant, in long racemes, various shades of blue, lavender, lilac, pink, purple and white, all with a beautiful yellow blotch on the standard. Foliage all very grey. Pkt., 25c.

Malacothrix californica. “Wild Marigold.” Annual, 6 to 12 inches high. Flowers large, resembling a calendula or marigold, shades of blue, and yellow, beautifully blended. The blossoms are on single stems and open at daylight but close late in the day. They are produced in great numbers and present a wonderful sight in the early morning sunlight. A pretty little plant doing especially well in sandy soil. Pkt., 15c; ¼ oz., $1.00.


Minumus brevipes. “Yellow Monkey Flower.” Annual, 1 to 1½ feet high. Flowers large, clear canary yellow. Pkt., 15c.

Minumus cardinalis. “Scarlet Monkey Flower.” Perennial, 1 to 3 feet. Flowers bright scarlet; grows in sandy places. Pkt., 10c.

Nemophila insigilis. "Baby-Blue-Eyes." Annual, 4 to 8 inches high. Charmingly pretty little plant of spreading habit, with clear, azure blue flowers. Prefers shade or partial shade. Pkt., 10c; oz., 50c; lb., $1.00.

Nemophila maculata. "Spotted Nemophila." Annual, 4 to 8 inches. White wth large deep purple blotch on each petal. Does well in shady places. Pkt., 10c; oz., 35c; lb., $4.00.

Oenothera biennis hirsutissima. "Yellow Evening Primrose." Biennial, 3 to 6 feet. Flowers large, light yellow. Pkt., 10c; oz., 60c.


Orthocarpus purpurascens. "Owl’s Clover" or "Pink Paint Brush." Annual, 4 to 10 inches high. Rose, pink or tanish, lilac shading to cream-color at center. Pkt., 10c.


Phacelia campanularia. "Bell-flowered Phacelia." Annual, 1 to 1½ feet high. Flowers intense bright blue. Pkt., 10c; oz., $1.00.

Phacelia grandiflora. "Large Flowered Phacelia." Annual, 1 to 3 feet high. Large saucer-shaped flowers, lavendar, beautifully veined with violet. Pkt., 10c; oz., 75c.

Phacelia parryi. "Parry’s Phacelia." Annual, 1 to 1½ feet high. Flowers saucer-shaped, deep violet, generally with five yellow spots. Pkt., 10c; oz., 75c; lb., $3.00.


Phacelia whitlavia. "Wild Canterbury Bell." Annual, 1 to 1½ feet high. Large bell-shaped flowers hanging in open, airy clusters; color violet purple. Pkt., 10c; oz., 60c; lb., $7.00.


Silene laciniata. "Indian Pink." Perennial, 1 to 3 feet. Flowers bright scarlet. Pkt., 15c.


For a full list of California Wild Flower Seeds, and also for more complete descriptions of the foregoing species, send for my SPECIAL ILLUSTRATED BOOKLET."CALIFORNIA WILD FLOWERS: THEIR CULTURE AND CARE." A treatise describing over a hundred beautiful species, with a few notes on their habits and characteristics. Price 15c, postpaid.

**Special Souvenir Collection of California Wild Flower Seeds**

This collection contains twelve choice species of California Wild Flower Seeds in separate packets, mostly annuals of easy culture, and includes the California Poppy, the Baby Blue-Eyes, the Scarlet Larkspur, the Blue Lupine, the Blazing Star, the Wild Heliotrope, and 6 others of my selection, mailed free to any address for 50 cents.

**California Wild Flower Seeds in Mixtures**

I particularly recommend these mixtures for sowing on waste pieces of ground, parkings, vacant lots, etc. My experience is that a moderately well established reputation, as the many letters of praise I have received will prove. It contains twenty distinct species mixed in their right proportions and will produce a succession of blooming flowers from April onward, and so sown, a few slight waste pieces of ground can be transformed into beauty spots by sowing some of these seeds broadcast in the fall about the time the rainy season commences.

In ordering it is only necessary to mention the number of the mixture desired.

**Payne’s Mixture. No. 1.** General mixture of annual wild flower seeds. This mixture is made up of those kinds which will give a succession of flowers for a long period. Kinds included are: California Poppy, California Bluebell, California Sunflower, Blue Phacelia, California Lupine, and many others. Pkt., 10c; oz., 40c; ¼ lb., $1.15; ½ lb., $5.00.

**Payne’s Mixture. No. 2.** Mixture of annual wild flower seeds for sowing in shady places. Pkt., 10c; oz., 50c; ¼ lb., $1.75; ½ lb., $6.00.

**Pace’s Mixture. No. 3.** Mixture of annual wild flower seeds in orange, yellow and cream shades. Pkt., 10c; oz., 60c; ¼ lb., $2.00; ½ lb., $7.00.

**Pace’s Mixture. No. 4.** Mixture of annual wild flower seeds in blue, purple and lavender shades. Pkt., 10c; oz., 50c; ¼ lb., $1.75; ½ lb., $5.00.

**CALIFORNIA NATIVE PLANTS.**

I make a specialty of growing native trees, shrubs and perennial plants, and issue price lists, from time to time, of the kinds I have large enough for sale. The latest list will be mailed free on application.

**California Wild Gardens.**

I am prepared to give advice on the subject of making wild gardens, and also equipped for carrying out the work. Estimates furnished and correspondence invited.

**SUUPRISE GARDEN MIXTURE.**

This is not a mixture of wild flowers, but of garden annuals, with a few wild species added. It contains a large number of different kinds all of them quite hardy and varieties that will grow with the least amount of care and produce quantities of flowers for a long period. Indeed, there are so many kinds appearing in endless succession that it is a continual surprise from the time the first plant begins to blossom. I recommend it for vacant lots and waste pieces of ground. Pkt., 10c; oz., 35c; ¼ lb., $1.20; ½ lb., $4.00.

**CALIFORNIA WILD GARDENS.**

I am prepared to give advice on the subject of making wild gardens, and also equipped for carrying out the work. Estimates furnished and correspondence invited.
Tree and Shrub Seeds

Where not otherwise stated all trees and shrubs described in this list are evergreen. Where a height is mentioned it is understood that it is the ultimate height they attain. Space will not permit giving full instructions for sowing seed of each kind of tree. A few general directions are given, but a few gardeners have shrubs not be uprooted or the place. Most tree seeds are better sown in the latter part of winter or spring, though there are many that can be sown at any time, and some which must be sown while the seeds are quite fresh. Most kinds are best sown in boxes, of light, well-drained soil, covering the seed about its own depth or some of the larger ones a little deeper, press the soil down slightly with the hands. Keep in a lath house, frame, or some other sheltered place and water carefully until large enough to plant in the open ground, where they are to remain. Pines and other Conifer seeds are best sown in March and April; use a soil containing plenty of decomposed granite and always water in the morning and not at night, as the young seedlings "damp off" very easily.

Acacia seeds should be soaked in hot water for twelve hours or more before sowing. Some seeds are good only for a short time and in these cases I have stated the time at which fresh seeds can be had.

ACACIA ARMATA. "Kangaroo Thorn," 10 feet. A spreading shrub, with small yellow flowers, excellent for grouping and also for hedges. Pkt., 15c; oz., 75c; lb., $7.50.

4. BAILEYANA. 30 feet. A strikingly beautiful tree with glaucous pinnate foliage and covered late in winter with canary-yellow flowers which completely envelop the tree. Pkt., 15c; oz., 50c; lb., $5.00.

A. DEALBATA. "Silver Wattle." 60 feet. A magnificent, rapid-growing tree with glaucous, finely cut foliage and covered late in winter with golden-yellow flowers. One of the best for street planting. Pkt., 15c; oz., 40c; lb., $4.00.

A. PUCRINENS. "Green Wattle." 75 feet. A rapid-growing tree and one of the best for avenues. Finely cut, feathery, light green foliage. Flowers bright yellow. The wood is valuable for turners work and the bark is rich in tannin. Pkt., 15c; oz., 50c; lb., $5.00.

A. ELATA. (A. procer a.) 60 feet. A very ornamental, rapid-growing tree, with large, feathery foliage and bearing quantities of pale yellow flowers. Pkt., 15c; oz., $1.00.

A. FLORIBUNDA. (A. nerifolia.) 30 feet. A very quick growing species of pendulous habit, long narrow leaves; flowers light yellow. Pkt., 15c; oz., 50c; lb., $5.00.

A. JULIBRISIN. (Albizia julibrissin.) 40 feet. A beautiful deciduous tree of widely spreading habit, with finely divided, feathery foliage. Flowers pink, produced in large clusters, very showy. Pkt., 15c; oz., 50c.

A. LATIFOLIA. See A. longifolia.

A. LINIFOLIA. "Flax-leaved." 12 feet. A tall-growing shrub, with long, narrow leaves; yellow flowers in axillary racemes; very pretty for planting in groups. Pkt., 15c; oz., 60c; lb., $6.00.

A. LONGIFOLIA. "Sydney Golden Wattle." 30 feet. Generally known in California, though wrongly, under the name of A. latifolia, of the same slender habit. If properly trimmed it makes a fine street tree; also does well near the ocean; leaves long, lanceolate, glossy green. Very free flowering. Catching bright yellow flowers at the axill of every leaf. Pkt., 15c; oz., 50c; lb., $5.00.

A. LOPHANTHA. (Albizia lophantha.) 30 feet. Of rapid growth and useful for temporary shelter; valuable for planting on sand dunes along the sea coast. Pkt., 10c; oz., 20c; lb., $2.00.

A. MELANOXYLON. "Blackwood." 70 feet. Of compact, pyramidal growth. The favorite tree for street planting in Los Angeles. The wood takes a beautiful polish and is considered almost equal to walnut. It is used in Australia for pianos, billiard tables, etc. Pkt., 15c; oz., 40c; lb., $4.00.

A. MOLLISISSA. "Black Wattle." 50 feet. A rapid growing tree of erect and upright growth, with dark green, feathery foliage; flowers yellow, blooms in late spring. Pkt., 15c; oz., 50c; lb., $5.00.

A. PEN DULA. "Weeping Myall." A rare and beautiful tree, with weeping branches, narrow, silvery gray foliage and golden yellow flowers. Pkt., 25c; oz., $1.50.

A. PODALYRIAEOFOLIA. A very rare and beautiful shrub, somewhat similar to A.cultriformis, but with larger leaves and larger flowers, which are produced in immense quantities. Flowers are rich yellow and for this reason it is especially recommended for cutting. Flowers rich canary yellow. Pkt., 25c; oz., $1.50.

A. PODALYRIEEOFOLIA. 20 feet. A shrub of spreading habit, bearing quantities of rich yellow flowers. It thrives particularly well near the coast, and on account of its dense habit, bright green foliage and yellow flowers it is extremely ornamental, especially for planting in groups. Pkt., 15c; oz., 50c; lb., $5.00.

A. PROMINENS. 40 feet. One of the most beautiful of Acacias; of somewhat pendulous habit with small narrow foliage and great profusion of golden yellow flowers. Pkt., 25c; oz., $1.50.
A. **PRUNOSA.** 25 feet. A very beautiful tree with large, handsome, finely-cut foliage, which is of a rich light green. The young foliage and shoots bear of a soft rose color; flowers pale yellow. Pkt., 15c; oz., 75c; lb., $7.50.

B. **PYCANTHA.** "Golden Wattle," 30 feet. Of quick growth; leaves long and very broad; flowers in pendulous clusters, bright golden yellow and fragrant. Pkt., 10c; oz., 40c; lb., $4.00.

C. **SALIGNA.** 25 feet. Of drooping habit; leaves long, flowers rich yellow. Pkt., 10c; oz., 40c; lb., $4.00.

**A. VERTICILLATA.** 12 feet. A shrub of rather spreading habit, with small linear leaves and with flower spikes one inch or less in length; flowers deep yellow and extending the entire length of the young branches; one of the best for planting in groups. Pkt., 15c; oz., $1.50.

**ACER MACROPHYLLUM.** "California Maple." A deciduous tree of great beauty, attaining a height of about 100 feet. Leaves large, deep, five-lobed, rich green, pale beneath. A native tree found growing along the sides of creeks in many of our canyons, and thriving under cultivation in the valleys. Pkt., 10c; oz., 25c; lb., $2.50.

**ALBIZIA.** See **Acacia.**

**AMELOPSIS VESTITIL.** "Boston Ivy," "Japan Ivy." A handsome deciduous creeper much used for covering stone, brick and wooden walls, to which it clings tightly. The leaves are shining, glossy green, turning red and yellow in the fall. Pkt., 10c; oz., 35c; lb., $3.50.

**ANGOPHORA LANCEOLATA.** A tall spreading tree with clean, smooth bark, much resembling a eucalyptus, to which it is closely related. It is valuable for planting for ornamental purposes as single specimen trees. Pkt., 15c; oz., $1.50.

**ANONA CHERIMOLIA."** Cherimoyer." Peru. A small bushy tree with broad aromatic leaves. The fruits are produced in great abundance of a grayish-brown color, 3 to 5 inches in diameter, heart-shaped and of a delicious flavor. Pkt., 15c; oz., 50c; lb., $5.00.

**ABRUTUS MENZIESI.** "Madrone," 75 feet. A native tree found in the coast range. The foliage is thick, bright green and leathery; dark smooth, brownish-red; flowers white; followed by red berries. Pkt., 10c; oz., 40c; lb., $4.00.

**A. UNEDO.** "Strawberry Tree." South of Europe. 10 feet. Beautiful dark red berries. Quick growth; trees are covered with both blossoms and fruit; the latter in appearance like strawberries. Pkt., 15c; oz., 50c; lb., $5.00.

**ASH, ARIZONA.** See **Fraxinus.**

**BAURNIA PURPUREA.** 10 feet. A valuable shrub with dark-green, curiously bilobed leaves, and large, showy flowers, which are reddish-purple and white. Pkt., 15c; oz., $1.50.

**BERBERIS AQUIFOIUM.** "Oregon Grape." 4 feet. A handsome shrub, with shining, purplish, prickly leaves and bright yellow flowers, followed by blue berries. A charming early black berry shrub.

**B. DARWINI.** 3 feet. A beautiful shrub with many slender branches, drooping towards the ends. The foliage is dark green and prickly, somewhat like holly, and often turns a bright red in fall, which color it holds through the winter. In early spring the plants are covered with a profusion of golden yellow flowers. Pkt., 25c.

**B. JAPONICUM.** 3 feet. Leaves about one foot long, bright yellow flowers, produced in terminal clusters. In hot, dry climates it should be planted in a shady situation. Pkt., 15c; oz., 50c.

**B. STENOPHYLLA.** 4 feet. A very desirable shrub with long, slender, arching branches and small, long, narrow, dark green leaves which are silvery on the underside. The flowers are golden yellow and produced in great profusion. Pkt., 25c.

**BROOM.** See **Spartium.**

**CALLISTEMON RIGIDUS.** "Bottle Brush." A beautiful shrub, with large red, brush-like flowers, particularly valuable for dry places. Pkt., 15c; oz., $1.50.

**CALLITRIS ROBUSTA.** "Cypress Pine." In Australia it grows to a fair-sized tree, sometimes exceeding 90 feet in height, but the specimens in Southern California have only attained the size of large shrubs. The branches droop and are very erect, giving the foliage the appearance of growing in tufts. It is very ornamental for planting in gardens, having a particularly bright, clean appearance. Pkt., 25c; oz., $1.50.

**CAMPHORA OFFICINALIS.** "Camphor Tree." China and Japan. 40 feet. A very ornamental, symmetrical growing tree, with bright green, glossy foliage, the young foliage being of a pleasing delicate rose color. Well adapted for lawns or for street edging. The tree from which the camphor of commerce is extracted. Fresh seed from January to April. Pkt., 10c; oz., 25c; lb., $2.50.

**CARPENTERIA CALIFORNICA.** A rare native shrub, with handsome, glossy foliage, and bearing large, fragrant, pure white flowers with yellow stamens. Pkt., 25c.

**CASSIA ARTEMISIOIDEA.** Central Australia. A pretty shrub, with finely cut silvery gray foliage and clear yellow, sweet-scented flowers. It will stand any amount of drought. Pkt., 15c; oz., $1.00.

**C. FLORIBUNDA GRANDIFLORA.** 10 feet. Free blooming shrub, of rather loose, spreading habit. Leaves and stems smooth, deep green; flowers large, bright yellow with brown anthers. Pkt., 15c; oz., 50c.

**C. TOMENTOSA.** Mexico. A quick growing shrub, with bright yellow flowers, blooming all through the winter. Very effective for planting in groups. Pkt., 10c; oz., 25c; lb., $2.50.

**CASARINA EQUSETIFOLIA.** "Beefwood." South-East Australia. 50 feet. A striking tree of rapid growth, with drooping branches, dark green, needle-like leaves. Pkt., 15c; oz., $1.00.

**C. QUADRIVALVIS.** "Coast She Oak." Southeast Australia. 60 feet. Valuable for planting on the sea coast for holding the sand. Pkt., 15c; oz., $1.00.

**C. STRICTA.** "She Oak." Attaining a height of about 75 feet. It forms a very handsome tree, is particularly valuable for planting along seashores, as it duplicates a very tough wood, suitable for tool handles. Pkt., 15c; oz., 50c.

**C. TALPA SPECIOSA.** "Hardy Catalpa." 50 feet. A well known deciduous tree of rapid growth, much used for planting on timber claims. Flowers white, in large panicles. Pkt., 15c; oz., 40c; lb., $4.00.

**CEANOThUS DIVARICATUS.** "California Lilac." A beautiful native shrub, with glaucous leaves and large clusters of pale blue flowers; blooms in spring. Soak the seed in hot water a few hours before sowing. Pkt., 15c; oz., $1.00.
CEDRUS ATLANTICA. "Mt. Atlas Cedar." 100 feet. A splendid tree of upright, pyramidal growth with silvery green foliage. Pkt. 15c; oz. 50c, lb. $3.00.

C. DEODARA. "Himalayan Cedar." 120 feet. One of the most spectacular shade trees in cultivation, especially most remarkably well in California. Drooping branches and silvery green foliage. Pkt. 15c, oz. 50c, lb. $3.00.

C. LIBANI. "Cedar of Lebanon." Of spreading habit, the whole top seeming to grow in "skeleves," the branches growing horizontally; of darker green than the preceding. Pkt. 15c; oz. 50c, lb. $3.00.

CYRTONIA SILIQUITICA. "St. John's Bread," or "Carob Tree," 40 feet. A thick-growing tree with masses of dark green foliage; will grow in any soil and thrive with scarcely any water. Pkt. 10c; oz. 25c, lb. $1.00.

CHAMAECYPARISSUS LAWSONIANA. "Lawson's Cypress." California and Oregon. 200 feet. One of the most striking and graceful of all evergreen trees, with horizontally spreading pendulous branches and flat, compressed foliage; unsurpassed for specimen and lawn purposes. Pkt. 15c, oz. 50c, lb. $3.00.

CHORIZEMA HILICIFOLIUM. A spreading shrub or half-climber from Australia. The leaves are long with wavy margins and spine-like teeth, somewhat like holly. The flowers are small, pea-shaped; red, purple and yellow. It blossoms in winter and early spring when the plants are simply a mass of brilliant colors. Pkt. 25c.

COPROSMA BAUERI. A very handsome low growing shrub. The leaves are almost round, of a clean, glossy green color and have the appearance of having been varnished. It is especially valuable for planting in small beds, around a porch or against a wall. Pkt. 10c, oz. 25c, lb. $1.00.

CORUS CAPITATA. (Benthania fragifera.) "Evergreen Dogwood." 15 feet. Large shrub with flowers resembling those of the Eastern Dogwood, cream-colored, changing to a reddish shade before falling. This shrub is better suited to California conditions than the eastern species and has the advantage of being an evergreen. Pkt. 15c, oz. 50c, lb. $3.00.

CORYLUS GLAUCIA. A small shrub with glaucous foliage and quantities of bright yellow pea-shaped flowers. Pkt. 15c, oz. 75c.

COTONEASTER PANOSA. A very desirable shrub, of spreading habit, with many gracefully drooping branches, grey green downy foliage; covered in fall and winter with quantities of bright red berries. Pkt. 10c, oz. 40c, lb. $4.00.

CRATAEGUS PYRCAHANTHA. "Evergreen Thorn," or "Burning Bush," 10 feet. A thorny, thick-growing evergreen shrub with small but very dark green leaves and white flowers followed by masses of deep orange-red berries which are particularly attractive, remaining on the tree all winter. Pkt. 15c, oz. 50c, lb. $1.00.

CRATAPGUS CREXULATA. Similar to the preceding but has narrower leaves and bright red berries. Pkt. 10c, oz. 25c, lb. $3.00.

CRYPTOMERIA JAPONICA. "Japanese Cedar." 120 feet. The largest tree of Japan, attaining 35 feet in circumference and yielding a valuable timber. Very effective for planting in large grounds. Pkt. 10c, oz. 25c, lb. $3.00.

C. ELEGANS. "Fine-leaved Japan Cedar." Very ornamental, fine feathery foliage, which in winter turns to a reddish brown. A splendid tree for planting on lawns. Pkt. 15c, oz. 50c.

CUPRESSUS ARIZONICA. "Arizona Blue Cypress." 70 feet. A tree of great scenic value, and without doubt the most silvery of all the Cupressus. It grows quite rapidly and forms a perfect tree, thriving in almost any soil, standing intense heat, and much frost. The accompanying cut is reproduced from a photograph of a tree in its native habitat in Arizona, where my stock of seed was collected. Pkt. 15c, oz. 50c, lb. $5.00.

C. BENTHAMIA KNIGHTIANA. "Knight's Cypress." 70 feet. A remarkably handsome tree with drooping, feathery branches and glaucous foliage. Pkt. 15c, oz. 50c.

C. FUNEIRIS. "Weeping or Funeral Cypress." 70 feet. A beautiful tree with wide spreading, pendulous branches and rich, green, graceful foliage. Pkt. 15c, oz. 50c, lb. $5.00.

C. GOVENIANA. "Goven Dwarf Cypress." A native species of erect growth, forming a handsome crown rich, dark green foliage. Pkt. 15c, oz. 50c, lb. $5.00.

C. MACROCARPA. "Monterey Cypress." 70 feet. A native tree, extensively planted for hedges and equally valuable for single specimens. The tree becomes very picturesque in old age. Pkt. 15c, oz. 50c, lb. $3.00.

C. LUSITANICA. (C. glauca) "Blue Cypress." A rapid growing tree of rather spreading habit with glaucous foliage. Pkt. 15c, oz. 50c, lb. $1.00.

C. SEMPERVIRENS VAR. FASTIGIATA. "Italian Cypress." 75 feet. A tall, tapering tree with erect branches, growing close and parallel with the trunk. Largely used in formal gardens. Pkt. 15c, oz. 50c, lb. $5.00.


**Fremontia Californica.** "California Slippery Elm." A beautiful native shrub, growing from 5 to 20 feet high. It reaches its greatest perfection on the desert side of our mountains. The flowers are large, golden-yellow, two to three inches across. The seed is hard to germinate. Pkt. 15c; oz. $2.00.

**Genista Andreana.** A free flowering shrub. Flowers bright yellow, marked with crimson. Pkt. 15c; oz. $1.00.

**Canariensis.** A pretty shrub, very effective for planting in groups, being covered in spring with bright yellow flowers. Pkt. 15c; oz. 75c.

**G. Fragrans.** (G. ramosissima.) Of rather compact growth, covered with bright yellow fragrant flowers. Often grown as a pot plant. Pkt. 15c; oz. $1.25.

**Monosperma Pendula.** "Bridal Veil." 10 feet. A beautiful shrub with fine, drooping, silvery branchlets. The flowers are white and produced in immense numbers. Pkt. 25c; oz. $1.25.

**G. Stenopetala.** (G. maderensis.) A magnificent shrub with handsome trifoliate foliage and very long spikes of large, bright yellow flowers. Very ornamental and useful for cutting. Pkt. 15c; oz. $1.25.

**Sargania Robusta.** "Silky Oak." 150 feet. A large tree with very fern-like foliage, covered late in spring with orange-colored flowers which are a great source of honey for bees; does well in all parts of California and is one of the most stately trees for avenue planting; thriving with scarcely any water. Pkt. 15c, oz. 60c, lb. $6.00.

**Guava.** See Psidium.

**Hakea Elliptica.** A shrub of rather compact habit, growing to a height of 8 or 10 feet. The older leaves are glabrous, while the young shoots and leaves are covered with a short, silky appearance. Very ornamental for lawn or shrubbery planting. Pkt. 25c.

**H. Laurina.** (H. eucalyptoides.) 10 feet. A winter blooming shrub, with foliage similar to the Blackwood Acacia, bearing curious, globose heads of red flowers with white stigmas. Pkt. 25c.

**H. Pugioniformis.** Much branched shrub of spreading habit, having short, needle-like leaves and large numbers of white flowers. From a short distance it has the appearance of a dwarf pine. It is of rapid growth and especially valuable for dry soils. This is the true H. pugioniformis and must not be confused with H. pectinata, a very different plant, but which has been known by many nurserymen under the former name. Pkt. 25c.

**H. Saligna.** Of similar habit to H. laurina, but has narrower leaves and white flowers. Pkt. 25c.

**H. Suaevoleans.** (H. pectinata) A dense shrub attaining a height of 8 to 10 feet, with deeply cut sharp-pointed leaves and white flowers. Pkt. 25c.

**Heteromeles Arbutifolia.** "California Holly" or "Christmas Berry." 10 feet. A native California shrub; found plentifully in all our foothills. Very desirable on account of its handsome foliage and also for its bright colored berries. Pkt., 10c; oz., 10c; lb., $4.00.

**Jacaranda Mimosaeifolia.** (J. ovalifolia.) Brazil. 30 feet. One of the finest of our flowering types, literally covered in early summer with large blue bigonia-like flowers. The foliage is finely cut like a fern and very pretty. In pots containing 30 to 40 seeds. Pod 5c, doz. pods 50c.

**Juniperus Californica.** "California Juniper." A native shrub or small tree of spreading habit, found in dry washes. The foliage is of a beautiful, deep rich green. Pkt. 10c, oz. 40c, lb. $4.00.

**J. Bemudiana.** "Bermuda Juniper." 40 feet. A beautiful tree of densely branched pyramidal form, foliage of a pale bluish-green color. Pkt. 15c, oz. 50c.

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**Ficus Macrophylla**
LIBOCEDRUS DECURRENS. "Incense Cedar." 100 feet. A native California tree, thriving well under cultivation. It forms a very handsome, compact growing tree, with cinnamon red bark and bright green foliage, with a graceful underfoot. Pkt. 10c, oz. 70c, lb. $6.00.

LIGUSTRUM NEPALENSE. "Small-leaved Privet." 10 feet. A small-leaved evergreen tree from Southern California. It grows quickly and can be trimmed in any way desired, making a dense, thick hedge. Leaves small, light green, flowers white, in large clusters. Pkt. 10c, oz. 25c, lb. $2.50.

LIGUSTRUM JAPONICUM. "Japanese Privet." 20 feet. A small tree, with glossy, dark green, leathery leaves; often used for hedges and stands trimming well. Pkt. 10c, oz. 25c, lb. $2.50.

MAGNOLIA GRANDIFLORA. 80 feet. One of the finest of our evergreen trees. The leaves are thick, bright green and rustic on the under side; flowers large, waxy-white and fragrant. Fresh from November to January. Pkt. 10c, oz. 50c, lb. $3.00.

MELALEUCA ERICIFOLIA. "Bottle Brush." A large shrub with small, narrow leaves and spikes of yellowish-white, brush-like flowers. Pkt. 15c.


M. MICHIGA. "Bottle Brush." 15 feet. Large shrub with arching branches; leaves small, opposite, grey green. Short spikes of lilac flowers. Pkt. 15c.

M. NESOPHILA. "Bottle Brush." A handsome shrub of spreading habit with gray green foliage and rosy lilac blossoms. Pkt. 15c.

M. HYPERICIFOLIA. "Bottle Brush." A tall shrub with rather small, opposite leaves, and producing large spikes of rich red flowers. Pkt. 15c.

MELIA AZEDARACH UMBRACULIFORMIS. "Texas Umbrella Tree." A well known deciduous tree. The branches are erect and in a manner radiating from the trunk and with drooping foliage, give it the appearance of a gigantic umbrella. It is a handsome shade tree and will stand a great amount of heat. Pkt. 10c, oz. 20c, lb. $2.00.

MEPARIS COMBOSPOSIDEMOSA COMBOSPOSIDEMOSA. A beautiful shrub from New Zealand. Leaves thick and leathery, green on the upper side but whitish beneath. The flowers appear in rounded terminal clusters, and are rendered particularly showy by their profusion of long crimson stamens. It forms a particularly handsome shrub in our gardens, and will attract attention from quite a distance. Pkt. 25c.

MYRTUS COMMUNIS. "Common Myrtle." Handsome shrub of rather compact growth, with small glossy green, aromatic leaves. Bears quantities of small, white, fragrant flowers. Valuable either for single plants or as a hedge. Pkt. 15c, oz. 50c.

PARKINSONIA ACULEATA. Shrub or small tree, 15 to 25 feet. It has thorny, drooping branches, with long, feathery foliage, and showy yellow flowers. Pkt. 15c. oz. 50c.

PEPPER TREE. See Schinus.

PIECEA EXCELSA. "Norway Spruce." 150 feet. A magnificent tree; the branches assume a very graceful drooping habit when the tree is 20 feet high. Pkt. 15c, oz. 50c, lb. $2.00.

PINE AUSTRIACA. "Austrian or Black Pine." 100 feet. A spreading tree; leaves in pairs about 4 inches long, rigid, very dark green. Pkt. 15c, oz. 50c, lb. $2.00.

P. CANARIENSIS. "Blue Pine." 80 feet. A beautiful tree with long pendant needles of a glaucous blue color. It is of rapid growth, stands strong well and is one of the best pines for Southern California. It has the peculiarity of sprouting from the stubby trunk, even when burnt off, which is a valuable feature in the reforesting of our mountains. Pkt. 15c, oz. 50c, lb. $5.00.

P. COULTERI. "Big Cone Pine." 80 feet. A native species from the San Bernardino and San Jacinto Mountains at an elevation of 4500 to 7000 feet, but, unlike most of our native pines, grows in high altitudes. It succeeds well under cultivation in the valley. It is a hardy tree. In clusters of three, stiff and erect, and of a dark blue green color. Pkt. 15c, oz. 50c, lb. $5.00.

P. OLYMPICA. "Aleutian Pine." Western Asia, 60 feet. A tree of rapid growth and spreading habit, with light yellow-green foliage. It thrives well in California, and is a valuable ornamental tree. Pkt. 15c, oz. 50c, lb. $5.00.

P. INSIGNIS. (P. radiata.) "Monterey Pine." 100 feet. A well known native species of rapid growth, succeeding best near the coast. Pkt. 10c, oz. 49c, lb. $4.00.

P. MARITIMA. (P. pinaster.) "Seaside Pine." Southern Europe. 60 feet. A beautiful tree with deep furrowed bark, needles a bright glossy green, 6 to 9 inches in length; valuable for planting along the coast. Pkt. 10c, oz. 30c, lb. $3.00.

P. MURICATA. "Bishop Pine." A native California species, found growing on swampy flats and low hills from San Luis Obispo northward, always near the coast. It forms a tree 40 to 80 feet high, with roundish or flat top, and is valuable for wind breaks or for ornamental purposes. The seed cones are produced in circles around the main trunk from near the ground to its summit, and also on the main branches. These cones are persistent for an indefinite time, often 15 to 25 years, and give the tree its most unique appearance. Pkt. 15c, oz. 75c, lb. $7.50.

P. PARRYANA. (P. quadrifolila.) "Parry's Nut Pine." A small tree from 15 to 30 feet high, with rounded top and short needles from 1 to 1 1/2 inches long of a glaucous color. Found in the dry mountains of Lower California, and extending northward into San Diego County. Pkt. 10c, oz. 50c, lb. $5.00.

P. PINEA. "Italian Stone Pine." 60 feet. A very picturesque tree; branches spreading and usually confined to the top of the tree. Pkt. 10c, oz. 50c, lb. $2.00.

P. SABINIANA. "Sabin's Nut Pine." A native tree found in Antelope Valley and from there northward; needles light green or glaucous, three in a cluster and drooping. It succeeds well under cultivation and forms a handsome tree. Pkt. 10c, oz. 30c, lb. $3.00.

Pinus insignis
P. CHASSIFOLIA. A tall growing shrub, with grey green, downy foliage and small deep red flowers. Thrives especially well near the coast. Pkt. 15c, oz. 50c.

P. NIGICANS. Shrub of upright growth; small shiny leaves and dark, almost black stems. Pkt. 15c, oz. 75c.

P. TOHIIRA. A handsome shrub, with dark green, shiny leaves and numerous white, fragrant flowers. Pkt. 15c, oz. 50c.

P. TETRAHEDRUM. A beautiful tree and highly recommended for street planting. Its form is compact and the foliage is of a bright, rich green. It bears large clusters of white flowers followed by orange-colored berries in the fall of the year. Pkt. 25c.

P. TUDORUM. A shrub or small tree, with large lance-shaped, deep green, glossy leaves and white fragrant flowers. It makes a splendid hedge and is very handsome as single specimen plants; also suitable for street trees. Pkt. 15c, oz. 50c.

PRIVET. See Ligustrum.

PRUNUS CAROLINIANA. "Carolina Cherry." A large shrub or small tree of pyramidal growth; pretty, glossy green leaves and white flowers. Makes a handsome street tree. Seed fresh from January to April. Pkt. 10c; oz. 25c; lb. $2.50.

P. ILICIFOLIA. "California Cherry." A beautiful native shrub found on most of our coasts. It has pretty, holly-like foliage and small white flowers; very fine for specimen work and also makes a splendid hedge. Seed fresh from November to April. Oz. 15c, lb. $1.50.

P. INTEGRIFOLIA. "Catillaf Cherry." From Cata- lina Island, a beauty of green foliage, leaves with oval, rich, glossy green; very pretty as single specimen or as a street tree. Fresh seed from November to April. Pkt. 15c.

PSIDIUM CATTLEANUM. "Strawberry Guava." A small shrub grown for the fruit, which is round, dark red, of a good, juicy flavor. Much used for jellies and preserves, also for eating fresh. Pkt. 15c, oz. 50c, lb. $6.00.

P. GUAVA. "Lemon Guava." Fruit yellow, pear-shaped; valuable for jellies and preserves. Pkt. 15c, oz. $1.00.

RAPHOLEIS JAPONICA. (R. ovata.) Japan. 12 feet. A beautiful compact shrub of rather slow growth. The leaves are oval, thin and leathery, and of a dark, rich green. In spring the plants are covered with white, fragrant flowers. Pkt. 15c, oz. 30c, lb. $2.00.

ROBINIA PSEUDACACIA. "Yellow or Black Locust." 60 feet. A deciduous tree of rapid growth, largely used for planting on timber claims. Handsome plan- nate foliage; flowers pea-shaped, white, fragrant, in slender drooping racemes. Pkt. 15c, oz. 25c, lb. $2.50.

ROSE LAUREL. Native shrub, compact form with smooth green foliage and small white flowers. Pkt. 15c, oz. 50c.

SCHINUS MOLLIS. "Pepper Tree." Peru. 50 feet. The most magnificent of all our cultivated trees; with its long branches of finely cut, delicate green leaves and coral red berries. It is the admiration of every tourist who visits our state. Oz. 15c, lb. $1.00.

S. TEREBINTHIFOLIUS. "Brazilian Pepper." 40 feet. Of upright spreading growth, leaves longer than in the preceding. Large, erect clusters of coral red berries appearing in winter. Pkt. 15c, oz. 35c.

SCIADOPSIS VERTICILLATA. "Umbrella Pine." Japan. 100 feet. A remarkably handsome tree of slow growth, doing well in California near the coast; well suited for planting on lawns. Branches in regular whorls, covered with deep green, narrow leaves 8 to 10 inches long. Pkt. 15c, oz. 75c, lb. $7.00.

SEQUOIA GIGANTEA. "California Big Tree." 300 feet. A magnificent tree of perfect pyramidal form. Foliage bluish green. Pkt. 15c, oz. $1.50.

S. SEMPERVIRENS. "California Redwood." 300 feet. A rapid grower; a splendid ornamental tree, succeeding well in all parts of the state. Leaves dark green, paler underneath. Pkt. 15c, oz. 50c, lb. $5.00.

SPARGANUM BRONNII. "Scotch Broom." A quick growing shrub of upright habit. Large, yellow, pea-shaped flowers in great profusion on red and leathery leaves. Pkt. 15c, oz. 50c, lb. $3.00.

S. MULTIFLORUM ALBUM. "White Portugal Broom." 8 feet. A pretty shrub with large, white, pea-shaped flowers. Pkt. 15c, oz. 75c.

S. SCOPARUM. "Scotch Broom." 6 feet. A rather thick growing shrub; bright green stems and yellow pea-shaped flowers. Pkt. 15c, oz. 50c.

STERCULIA ACERIFOLIA. (Brachychiton acerifol- ium.) "Flame Tree." 50 feet. A tree of rather sturdy habit, with deeply-lobed, maple-like leaves; produces scarlet flowers in clusters which stand well up above the foliage. Pkt. 15c, oz. 60c, lb. $6.00.

S. DIVERSIFOLIA. "Vitorian Bottle Tree." 60 feet. Of compact pyramidal growth; leaves bright, glossy green and of many different shapes. Thrives with a small amount of water and has been largely planted as a street tree. Pkt. 15c, oz. 50c, lb. $1.50.

THuja OCCIDENTALIS. "American Arborvitea." "White Cedar." 80 feet. A handsome tree for single specimens and also for hedges or screens. The foliage is bright green, lighter underneath and assumes brown or bronze tones in the winter. Pkt. 15c, oz. 60c, lb. $6.00.

T. ORIENTALIS. (Biota orientalis,) "Chinese Arbor- vitea." 25 feet. A small thick growing pyramidal tree. Bright green foliage turning bronze or brown in the winter. Seeds of single specimen trees or for hedges. Pkt. 10, oz. 50c, lb. $3.00.

T. ORIENTALIS AUREA. "Golden Arborvita." 10 feet. A form of the preceding; the foliage assumes a golden tint in spring; very regular and compact in growth. Pkt. 10c, oz. 40c, lb. $4.00.

TORREYA CALIFORNICA. "California Nutmeg." 75 feet. A beautiful native tree, somewhat resembling the English Yew in appearance. Forms large, compact head; leaves 1 to 3 inches long, dark, shining green. Pkt. 10c, oz. 25c, lb. $2.00.

TRISTANIA CONFERTA. "Brisbane Box." A particu- larly beautiful tree, with large, handsome foliage and white flowers. It forms a handsome ornamental or single specimen tree and also for street planting. Pkt. 25c.

ULEX EUROPAEUS. "Gorse" or "Furze." 4 feet. A low growing, prickly shrub, with yellow, pea-shaped flowers, Pretty for grouping; also makes a good hedge. Pkt. 10c, oz. 45c.

UMBELLULARIA CALIFORNICA. (Oroedaphne califor- nica.) "California Laurel" or "Bay." 80 feet. Found growing near streams in many of our can-yon's; where it forms a large shrub or small tree. Farther north, however, it reaches a height of 80 feet or more. Under cultivation it grows rapidly and forms a well shaped, compact tree suitable for lawns or for avenues. Handsome, shining dark green foliage. Oz. 15c, lb. $1.50.

UMBRELLA TREE. See Mella.

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Headquarters for
EUCALYPTUS SEEDS

I am headquarters for eucalyptus seeds, having the most extensive trade in this line of any firm in the United States, and supplying the largest planters here as well as exporting to many foreign countries. To this department of my business I have devoted much study and personal attention. My seeds are carefully collected by my own men, under my personal supervision, from selected specimen trees, and are both true to name and of the very best stock obtainable. So extensive has become my trade in this line that a trifle under 1800 pounds was the total amount of seed thus collected in one season. For a few species of which the seed cannot yet be obtained in California I am in direct communication with the most reliable authorities in Australia who collect the seeds for me in their native habitats.

EUCALYPTUS TIMBER CULTURE

REQUIREMENTS. The requirements for propagating the seedlings are:

A lath house or lath or cloth covered frames to shade the seed beds during the day. When growing on a large scale it will pay in every case to build a lath house. Shallow boxes or flats: a good light soil and water convenient for sprinkling.

FLATS OR BOXES. These should be 3 inches deep and any size desired, though the size most convenient and generally used is about 20 inches square and will hold 100 plants. Some are using 18 inches square, the latter being mostly made of shakes sawed in half, using inch pieces for ends and split shakes for the sides. This makes a box 16x18x2 inches inside measurement and does very well.

SOIL. This should be a good light, sandy loam passed through a screen so as to take out any lumps or stones. If good leaf mould is procurable a small quantity of this may be mixed with the soil, as it helps to retain the moisture.

SEED. Procure the best seed possible from the most reliable source; it does not pay to use cheap seed, for by getting seed not true to name the loss cannot be calculated.

QUANTITY OF SEED. The quantity of seed to produce a given number of trees varies according to the species; as a fair average, however, 1 lb. should produce 20,000 seedlings, though as high as 30,000 has been known by some species.

TIME OF SOWING. This varies somewhat according to the locality and the species to be sown. The usual time, however, is in June, or early July, and seedlings from these sowings will be ready to set out in the field by the following February; later sowings are also made in August and early part of September, and these seedlings will be ready to plant out in April.

SOWING THE SEED. There are two methods of sowing the seed, viz.: In seed beds and seed boxes. For raising limited quantities the latter method is preferable. Fill the boxes carefully with the prepared soil, smooth off the surface and press down lightly with a board, tamping it slightly in the corners. On this smooth surface, sow the seed broadcast, using about 1/4 oz. of seed to a box, then cover the seed with the same kind of soil. This should be sifted over the surface through a fine-meshed sieve and not be more than 1/4 of an inch deep. The boxes should then be placed in the lath house or in some place where they can be covered with lath or cloth covered frames. The soil must be kept moist at all times, the watering should be done with a pot or a loose hose-nozzle so fine as to produce nothing but a spray.

As soon as the young seedlings show through the surface great care must be exercised in watering or the seedlings will "damp off." Always water in the morning and never at night. When raising the seedlings in commercial quantities, sowing in beds is often practiced. The soil for these should be prepared in the same way as already mentioned, the surface smoothed out evenly and the seed sown and covered as already mentioned. After this cover the beds with burlap stretched over a wooden frame work. This may be laid right on the ground and kept moist. As soon as the seedlings break through the crust of the ground this should be raised a little at first and gradually up until it is a foot above the ground. As the seedlings grow and get stronger this covering may be gradually removed so that they will harden to the full sun.
TRANSPANTING. When the seedlings are 2 to 3 inches high they are ready for transplanting, but they should be hardened off by exposure to the sun; transplant to the same kind of boxes as already mentioned, 100 to a box, in perfect rows on an even kind of soil as that which the seed was sown upon, a trifle heavier or less sandy. Fill the boxes, press down the soil and water the surface thoroughly by lines into ten divisions each way and plant where they are not to be irrigated or the soil in centers of 100 to each box. A method often used by commercial growers is to have a board about 8x10 feet with a 100 box: In this placed 100 screws, set at the right distance apart for the heads of an average size plant, and as the seedlings are transplanted thus making 100 impressions at the exact places for the plants. In transplanting, make a hole for each seedling with a sharpened stick about the size of a lead pencil, firming the soil after putting in the plant. A thin layer of soil over the surface of the soil; this helps to hold the moisture and will keep the surface from baking. Before transplanting seedlings are taken from the seed box or bed they should have a thorough watering so that they will come out of the soil easily without breaking the roots, which must not be allowed to dry on any account during the process of transplanting. When growing the plants for sale it is advisable to grade seedlings into sizes at the time of transplanting, so that when the plants are ready for sale of an even size, the larger size box and the boxes containing the larger size plants can be sold first and the smaller ones later in the season. The seedlings are transplanted so that they must be watered thoroughly and set in complete shade for a few days until they thoroughly recover; after that they should be gradually exposed to the sun and cared for until they are ready to set out in the field.

PLANTING OUT IN THE FIELD. The plan should be planted as deeply as possible and well worked. The time to plant varies according to the climatic conditions. In localities where there is little or no frost, planting may be done in the winter time, thus getting the benefit of the rains, but in sections where frosts prevail, it should be deferred until spring. The size at which the plants are best to set out is from 6 to 10 inches. The boxes may be taken to the field and set at convenient points. On one side of the box should be taken off and each plant cut out with a square of earth and then planted with a trowel, not to break the root ball of earth, and the plants should be set about one inch deeper than they were in the box. A quart or so of water should be given to each tree as soon as it is set and afterwards a little dry soil up around each plant. The distance at which the young trees varies according to the species, the soil and the purpose for which they are grown. On these conditions of irrigation are not practiced they may be planted 6x6 feet apart, where irrigating and cultivating 15x15 feet is a sufficient distance and leaves an 8-foot space for plowing and irrigating. On lighter soils 8x8 feet is a good distance. Some are planting 7x5 feet on the alternating or triangle system, placing the trees 8 feet apart in the rows and 7 feet between the rows, which makes the trees 8 feet apart every way. It is claimed for this system that they do not throw so much shadow and get a more even amount of sun light, causing the trees to make a straighter and more even growth when young.

CARE OF THE YOUNG TREES. As the value of the growth is largely upon the trees making a good start, it will pay wherever practical to irrigate and cultivate the trees for at least the first two seasons.

THINNING THE TREES. To produce good lumber it is necessary that the trees grow straight. Close planting and staking causes straight growth. It is therefore better to plant closely and at the end of the first season grub out all weak and inferior trees.

SPECIES TO PLANT FOR PROFIT. Eucalyptus trees are grown for profit to be produced as a deep, rich soil with a fair amount of moisture, and on well-drained ground. Among the best to plant for profit depends largely upon the locality where the trees are to be grown. For general timber purposes, taking all conditions and uses into consideration, E. tereticornis is considered the most profitable tree to plant. But in sections where E. globulus, "Blue Gum," thrives there will be quicker returns by planting this species than any other. For the hot interior sections E. tereticornis and E. rostrata are recognized as the leading commercial kinds, while E. viminalis might be grown very profitably under the same conditions. In localities not subject to frost E. corynocalyx may be planted. For those who have the right conditions and can afford to wait longer for returns E. resini- fera will probably prove one of the most profitable on account of its very valuable wood, which is used for furniture and interior finishing and is imported very largely by railway companies for the inside of cars under the trade name of Australian Mahogany.

SPECIES FOR FENCE POSTS. This is an important item on large ranches. By setting aside a small portion of irrigable acres in trees a sufficient number of fence posts can be produced in a few years. The best species for this purpose are E. tereticornis, E. robusta, E. robusita, E. cornuta, E. diversicolor and E. polyantha, and for irrigated sections on the desert, E. ruddi.

EUCALYPTUS AMYGDALINA. "Peppermint Gum." An exceedingly tall growing tree; in fact, to this species belongs largely the tallest trees in the world. Baron Von Mueller having recorded trees over 400 feet high and with diameters of 18 to 35 feet. The tree is very variable in growth, however, the great heights mentioned being attained in moist ravines: under less favorable conditions it forms a much smaller tree, and in some cases is comparatively dwarf. The timber is useful for shingles, flooring, etc., but does not usually last well under ground. One of the most valuable for oil; producing more volatile oil than any other species yet tested. Recommended for planting in swamps as a preventative for yellow fever, etc. Pkt. 15c, oz. 75c, lb. $7.50.

E. AMYGDALINA, VAR. ANGIISTOFOLIA. See E. line-ola.

E. AMPHIOPIA. Much resembling E. tereticornis, but having large, almost round leaves when in the young state; generally known in California as the "Cooper" or "Round-leaf tereticornis." In correspondence I received from Professor J. H. Menden in regard to the way of naming plants, it is evidently at variance with the above name, under which it was described by Naudin. Professor Menden states, however, that it is the original name and this tree should, properly speaking, be treated as a variety of E. tereticornis, but it is not prepared to say further until he deals with E. tereticornis and its varieties in his "Critical Revision of the Genus Eucalyptus and Fistul Fossil pouers." It is a tree similar to that of E. tereticornis, and this tree has been planted quite extensively in California for commercial purposes. Some years ago, it was grown under the trade name of Australian Mahogany, and is valuable for ornamental purposes. Pkt. 15c, oz. $1.00, lb. $10.00.
Eucalyptus sideroxylon var. rosea

E. CITRIDORA. "Lemon-scented Gum." A fast-growing species soon becoming tall and slender. In favorable situations it has attained a height of 60 to 100 feet in 10 or 15 years. It thrives best near the coast, but will not endure much frost and is not adapted to the warm, interior valleys. The wood is strong and durable, useful for fencing, implement handles, shipbuilding, paving, railway ties, briars, etc. It is used for various artisans' work and is preferred for the strongest parts of carts, wagons and other work requiring hardness, toughness and elasticity. Pkt. 15c, oz. $1.50.

E. CORNUA. "Yate Tree." A medium size tree of fairly rapid growth. It endures high temperatures, but not heavy frosts; thrives well near the coast and will endure the hot summers of the Interior valleys. Grows remarkably well in alkali land. One of the most useful of the Eucalyptus. The wood is very hard and heavy and according to tests of the Australian Government is the strongest wood in the world. It is used for various artisans' work and is preferred for the strongest parts of carts, wagons and other work requiring hardness, toughness and elasticity. Pkt. 15c, oz. $1.50.

E. CORNUA, VAR. LEHMANNI. A rather small tree with thick spreading branches and of great value for ornamental purposes. Pkt. 15c, $1.00.

E. CORYNOCALYX. "Sugar Gum." 120 feet. This tree succeeds in a great variety of climates; thrives near the coast and does equally well in the interior and in the hot valleys of Arizona, but will not stand much frost. It is considered the most drought-resistant of all Eucalyptus, and is extensively planted on dry hillsides. The wood is one of the strongest and is very durable, useful for railway ties and underground work. Pkt. 15c, $1.00, 1 oz. $9.00.

E. CREBRA. "Narrow-leaved Ironbark." 100 feet. It succeeds under a great variety of climatic conditions. It withstands gales of wind and is very hardy, growing on dry hillsides and on stone. The wood is hard, elastic and of a reddish color; very durable under ground and used for railway ties, poles, piles, etc. Pkt. 15c, $1.00.

E. DIVERSICOLOR. "Karri Gum." One of the most magnificent of all trees, specimens having been recorded in Australia near Perth that have ascended to a height of 300 feet and formed a trunk 5 feet in diameter. It is very hardy and thrives in the most exposed situations. This wood is very useful for railway ties and piles. It is used for fencing, wharf construction, etc. Pkt. 15c, oz. $2.00.

E. FICIFOLIA. "Scarlet-flowering Gum." 30 feet. A very ornamental species with large, leathery leaves and immense clusters of large, bright crimson flowers. 25 seeds 25c, 100 seeds 85c.

E. GLOBULUS. "Blue Gum." The best known species and one of the most important. It is the fastest growing of all. The usual height in Australia is 200 to 300 feet. In California trees 20 years old have attained the height of 150 feet; diameter of 3 to 6 feet. It is usually of erect growth, succeeds best near the coast and on account of its rapid growth is probably the best wood to plant. The wood is durable above ground; large quantities of it have been imported at San Jose for felloes, poles, reaches and singletrees of wagons, flooring, insular pins and anything requiring strength. It takes a fine polish and is valuable for furniture and interior finishing. Pkt. 15c, oz. 75c, lb. $7.50.

E. GOMPHOCEPHALA. "Toostart." A medium sized tree attaining a height of 120 feet. It succeeds well in California near the coast, but has not been thoroughly tested in the wood of the strongest in the world and is principally used for shipbuilding and bridges. Pkt. 15c, oz. $1.00, lb. $10.00.

E. GONIOCALYX. "New South Wales Blue Gum." A large tree, reaching a height in Australia in favorable situations of 300 feet. It succeeds well in California in the coast regions. The timber is hard and tough, used for wheelwrights' work and shipbuilding. Pkt. 15c, oz. $1.00.

E. GUNNI. "Tasmanian Cider Tree." This is one of the hardiest of the genus. In its native habitat it grows in low lands where it forms a tall Asia, and sometimes reaches 150 feet or more. It also ascends the mountains to an elevation of 1000 feet, but here becomes a dwarf tree or mere shrub. It is extremely hardy, growing where there is snow for several months in the year. Grown as one of the best for planting in our mountains for forest cover. The wood is used for various artisans' work. Pkt. 15c, oz. $1.00, lb. $9.00.

E. HEMIPHLOIA. "Common Box." 100 to 150 feet. It thrives in California near the coast and also in the hot interior valleys, standing one of the harshest and coldest. One of the best for shade purposes. The timber is strong, close grained and used for wheelwrights' work, piles, railway ties, posts, etc. Pkt. 15c, oz. 75c, lb. $7.50.

E. LEUCOXYLON. "Victorian Ironbark." 100 feet. These trees are apt to grow crooked, but by giving them some attention when young they may be made to grow straight. This species will grow in a greater variety of situations than most Eucalyptus thriving near the coast or in the hot desert valleys of the interior valleys and will succeed in situations of 15 degrees to 20 degrees F. It is one of the best for forest cover. The wood is hard and durable, excellent for strength; used for railway ties, mining purposes, wagon building, shipbuilding, etc. Pkt. 15c, oz. $1.00, lb. $10.00.

E. LEUCOXYLON, VAR. RIVULOSUM. A variety of the preceding, having beautiful pink flowers, and of great value as an ornamental tree, and can be grown in localities where E. ficifolia will not thrive. Pkt. 15c, oz. $1.50.

E. LINEARIS. An ornamental species of somewhat weeping habit, with drooping branches. It has been known in California, though wrongly, under the name of E. amygdalina, var. angustifolia. Pkt. 15c, oz. $2.00.

E. LONGIFOLIA. "Woollly Butt." A moderate sized tree, but in Australia under favorable conditions has sometimes reached a height of 150 feet. It thrives best near the coast. The timber is useful for posts, ties, street paving, etc. Pkt. 15c, oz. 75c.
E. MACULATA. "Spotted Gum." Attains a height of 150 feet, growing remarkably straight. The wood is used for shipbuilding, wheelwrights' and cooper's work. It is a native of California, and it is the best timber for this purpose in the coast region. The wood is of the same excellent quality as the "Blue Gum." This tree has been planted very extensively and is recognized as one of the best sea-board trees. It is also used for the interior sections of the state. The wood is strong and durable, useful for railway ties, piles, street paving, fence posts, etc. It is used for cabinet work. Pkt. 15c. oz. 50c. lb. $5.00.

E. MELLIOODORA. "Yellow Box." A fair sized tree, remaining upright; used for fence posts and telegraph poles. It has an excellent height of 50 feet. It thrives near the coast, on the sides of low mountains and in warm, dry interior valleys. The wood is hard and dense, wheelwrights' goods and shipbuilding, supplies one of the best fuels. The wood is considered a valuable timber for fence posts, because of its enduring qualities. It is used for cabinet work. Pkt. 15c. oz. $1.00.

E. MUELLERIANA. "Yellow Stringy-bark." A tree of medium size, best suited to the coast region, but it can also be grown in interior valleys. It has a height of 50 feet. The wood is remarkably durable. Mr. J. Blackburne, who has spoken of the timber of this tree as follows: "A native of the coast, and is a hard, yellow wood, used for fence posts, etc." It is grown in Gippsland, sixty years ago, is at the present time used in New South Wales, and is still in good order after being in the ground for seventy years. Pkt. 15c. oz. $1.00.

E. ORBICA. "Stringy-bark." A tall, straight-growing tree, sometimes attaining a height of 200 feet in Australia. In California it grows fairly well near the coast, but it does not succeed in the interior valleys. Pkt. 15c. oz. 75c.

E. PHYSALIS. "Black Butt." In Australia under favorable conditions it has attained a height of 200 feet, but the average height is 100 to 150 feet. In California it grows well near the coast, but does not thrive in the interior valleys. The timber is strong and durable, useful for house building, shipbuilding, fencing, and railway ties. Pkt. 15c. oz. $1.00, lb. $10.00.

E. PIPERITTA. "White Stringy-bark." A fair sized tree, perfectly well near the coast, and in inland situations. The timber is easily split and used for fencing and general building purposes. Pkt. 15c. oz. $1.00.

E. POLYANTHEMA. "Red Box." In Australia this tree attains a height of 150 feet or more. In California it grows near the coast, and is under the conditions it will not succeed. In the interior valleys it grows well, but is not found in the hot, dry interior valleys. The timber is strong and durable, useful for house building, shipbuilding, fencing, and railway ties. Pkt. 15c. oz. $1.00, lb. $10.00.

E. PUNCTATA. "Leather-jacket." A medium sized tree attaining a height of 100 feet in Australia. In California it grows near the coast, and in the interior valleys. In the latter it is not found. Pkt. 15c. oz. $1.00.

E. RESINIFERA. "Red Mahogany." 100 feet or more. This tree thrives in the coast region and is planted in moist, semi-tropical climates, but will not thrive in the hot interior valleys and will not resist severe frost. The trees are of remarkably straight growth. It has been said that this tree is of slow growth, but the trees on the dry mesa near Santa Monica have made a very rapid growth. It is one of the best trees, and is of the foremost species. The wood is of a rich, reddish color. The timber is highly prized in mahogany; it is used for fencing, and makes the most beautiful furniture. The timber is very strong, hard and durable and is used for fence posts, paving, and general building purposes. Pkt. 15c. oz. $1.00, lb. $10.00.

E. ROBURTA. "Swamp Mahogany." 100 feet or more. This tree thrives best in the low, moist land, and has been grown in many very favorable conditions. It is symmetrical in growth when young, but has been largely planted as a street tree and for wind-breaks. It is not very valuable for the interior valleys, but it is very valuable for the interior valleys, and has been largely planted as a street tree and for wind-breaks. The wood is brittle and not very valuable, but is durable under ground. Pkt. 15c. oz. $1.00.

E. ROSTRATA. "Red Gum." In Australia it is said to attain a height of 200 feet under favorable conditions. It is said to be of the same excellent quality as the "Blue Gum" and is used extensively for building purposes. It is used for cabinet work. Pkt. 15c. oz. $1.00, lb. $7.50.

E. RUDDY. "75 to 100 feet. One of the best for street planting. It thrives in the hot, dry interior valleys, and is a very valuable timber for fence posts and for interior work. The fact that the tree will thrive over a wide range of country and also that it is of such rapid growth and is such a valuable timber, that it is not so hard and has not the strength of many of the other species. It is used for fence posts, paving, and general building purposes. Pkt. 15c. oz. $1.00, lb. $7.50.

E. SIDEROCYPUS. "Red Ironbark." A medium sized tree, found in California. It grows well near the coast and on plains and hillsides farther inland and will endure minimum temperatures of 20 and 20 degrees F. The wood is of a dark red color, hard and heavy, useful for railway ties, bridges, wagon wheels, etc. Pkt. 15c. oz. $1.00.

E. SIDEROCYPUS, VAR. ROSEA. A variety of the preceding, with deep pink flowers, which contrast well with the dense foliage. It is very popular and this is considered the most ornamental of all the eucalyptus. Pkt. 15c. oz. $1.50.

E. SQUARITANA. "Red-barked Gum." A medium sized tree. It thrives near the coast and will endure minimum temperatures of 10 degrees F. and can be planted in the interior valleys and in irrigated sections of the desert. Under the latter conditions it makes a remarkably rapid growth. This tree has been planted on a very large scale in California and also in other countries. We have received very favorable reports of its adaptation to the states of Florida and also Brazil. The wood is of a pretty, reddish color, hard, strong and durable, valuable for railway ties, telegraph poles, and interior finishing of houses. In 1910 I cut a number of this coast, the highest being 100 feet, and brought it up into lumber. The wood has a fine grain and is really the most beautiful eucalyptus wood I have ever seen, and grows well near the coast, and has been greatly admired by everyone who has seen it, and many think it superior to mahogany. The seed I have offered this year has succeeded in one of the best very fine specimen trees. Pkt. 15c. oz. 75c. lb. $7.50.

E. TERETICORNIS. "Cooper or Round-leaf." See E. amphiropia.

E. VIMINALIS. "Manna Gum." In Australia this tree has attained to a height of 300 feet with a diameter of 15 feet. It is an exceedingly handsome tree with long pendulous branches, and is one of the most picturesque for avenue planting. This tree will thrive under a great variety of conditions, both near the coast, also in irrigated sections on the outskirts of cities. It is of very rapid growth, being only rivaled in this respect by the "Blue Gum," while in the hot interior sections it is unsurpassed by any other species. Its growth is not so rapid as that of the "Blue Gum," and is not so hard and has not the strength of many of the other species. It is used for fence posts, paving, and general building purposes. Pkt. 15c. oz. $1.00, lb. $7.50.
Palm Seeds

The seeds of all the species offered here, except Cocos, can be germinated without artificial heat. Sow the seeds thickly in shallow boxes of light soil mixed with about the same quantity of leaf-mold. When a few inches high put up into small pots. Some species are very slow to germinate, while others will come up in 5 or 6 weeks. Washingtonia filifera and W. robusta, Phoenix canariensis and P. reclinata can be sown out in the open ground in spring after the weather has become warm and will germinate quite easily.

Chamaerops excelsa, (Trachycarpus excelsus.) "Windmill Palm." China, Japan and India. 30 feet. One of the hardiest palms known, standing heavy winds without injury to the leaves and also several degrees of frost. The leaves are fan-shaped, finely and deeply cut. One of the best palms for street planting. Oz. 15c, lb. $1.50.

C. humilis. The Mediterranean region. 20 feet. A dwarf growing hardy species, with fan-shaped leaves, especially desirable for planting on lawns, also for growing in tubs for porch plants. Oz. 20c, lb. $2.00.

C. humilis argentea. Similar to the last, but with more silvery foliage. 10 seeds 15c, 100 seeds $1.00.

Cocos. A large genus of very beautiful pinnate-leaved palms from tropical and semi-tropical South America. Many of the species are quite hardy in California, and are especially desirable for planting on lawns. The seeds may be sown in boxes or seed pans as mentioned for other palms, but require bottom heat to germinate the seed.

C. Australis. "Pindo Palm." 15 feet. A rather slow growing but very ornamental palm with glaucous green recurved leaves. One of the hardiest of the genus and the one best known in California. 10 seeds 15c, 100 seeds $1.00.

C. Alphonsei. Of stocky habit and rather quick growth for this group of palms. The leaves are blue-green, beautifully arched. The seeds are covered with edible pulp of rich apricot flavor. One of the hardiest of all palms, having stood in Northern Florida during the freeze of 1895 a temperature of 8 degrees Fahr., unharmed. 10 seeds 20c, 100 seeds $1.50.

C. Botryophora. A very handsome palm similar to C. plumosa, but of more rapid growth and having a more slender trunk; considered by many the best of the tall growing class. 10 seeds, 20c; 100 seeds $1.50.

C. Datil. Similar to C. plumosa, but much harder thriving in sections where the latter will not survive. 10 seeds, 20c; 100 seeds $1.50.

C. Bonnelli. A very graceful palm. Leaves gray-green in color when in full sunshine, but when grown in houses, of a darker green. One of the best for house culture and also quite hardy out of doors in California. 10 seeds 20c, 100 seeds $1.50.

C. Campestris. 10 to 15 feet. Leaves spreading and recurved, but slightly rigid. 10 seeds 20c, 100 seeds $1.50.

C. Eriospatha. 10 to 15 feet. Leaves blue-green in color. The seeds are covered with edible pulp of a rich flavor. One of the best of the hardy Cocos. 10 seeds 20c, 100 seeds $1.50.

C. Yatal. 12 to 15 feet. Leaves recurved, spreading 6 to 9 feet long similar to C. australis in general appearance. 10 seeds 20c, 100 seeds $1.50.
ERYTHEA ARMATA. "Blue Palm." Lower California. 40 feet. A rather slow growing Fan Palm of great beauty. Leaves of a fine glaucous blue. Very hardy and a pretty palm for lawns. 10 seeds 25c, 100 seeds $1.50.

E. BRANDEGE. Lower California. 125 feet. The most beautiful of fan palms. Leaves rich green above, glaucous beneath. 10 seeds 25c, 100 seeds $2.00.

EDULIS. "Guadalupe Palm." Guadalupe Island. 20 feet. A rapid growing Fan Palm of great beauty. Leaves deep green and without any threads. 10 seeds 15c, 100 seeds $1.00.

PHOENIX CANARIENSIS. "Canary Island Palm." Without doubt the most popular in California and one of the most graceful of our hardy palms. Leaves pinnate and of a deep dark green color. Very effective for lawns and large grounds. 10 seeds 10c, 100 seeds 50c.

P. DACTYLIFERA. "Fruiting Date Palm." Arabia and North Africa. 100 feet. Produces the dates of commerce. Of rather stiff growth when young and not very ornamental, but when fully developed it is hard to be surpassed for scenic effect. Pkt. 50c, lb. $2.50.

P. LEONENSI. (P. spinosa.) Africa. 40 feet. A large palm of strong growth, attaining about the same proportions as P. canariensis. Fronds with a slightly glaucous tinge, armed at the base with formidable spines. 10 seeds 15c, 100 seeds $1.00.

P. RECLINATA. South Africa. 12 to 20 feet. Of slender, graceful habit. Pinnate leaves beautifully arched, usually hanging edgeways. A fine palm for avenue planting or for single specimens on lawns. 10 seeds 10c, 100 seeds $1.00.

P. ROEDELI. Slain. A beautiful little species growing only a few feet high, with finely cut leaves, especially valuable for growing as a pot plant. 10 seeds 25c, 100 seeds $2.00.

P. RIPICOLA. India. 20 to 30 feet. A handsome palm of slender, graceful habit, suitable for single specimens or avenue planting. Very desirable in the young state as a pot plant. 10 seeds 20c, 100 seeds $1.50.

WASHINGTONIA FILIFERA. "California Fan Palm." 30 feet. The common Fan Palm of California. Trunk attains a diameter of 4 feet. Leaves fan-shaped with numerous divisions and whitish filaments. Oz. 15c, lb. $1.50.

W. ROBUSTA. (W. gracilis.) 100 feet. Of more slender growth than the preceding and more graceful in general appearance. The leaves are brighter green and with less filaments. This is the palm now so largely used for street planting. Oz. 25c, lb. $2.50.

W. SONORAE. Lower California. 25 feet. A beautiful palm resembling the well-known California Fan Palm, but more symmetrical in growth and more dwarf in habit. The leaves are of medium size with few or no filaments and retain their dark green color during the winter months. Leaf stem short and thorny, of upright growth with dark leaf-sheaths. Oz. 25c, lb. $3.50.

DECORATIVE PLANT SEEDS

Sow the seed in pots or boxes of light, well-drained soil; when the plants are large enough to handle pot up into small pots and afterwards transfer to larger pots or plant out in the open ground, as desired.

ASPARAGUS PLUMOSUS. "Asparagus Fern." A favorite climbing vine, suitable for shady locations. Also grown as a pot plant. Soak the seed in hot water 12 hours before sowing. Pkt. 10c, 100 seeds 50c.

A. SPRENGERI. A favorite plant for hanging baskets. Treat the seed the same as the preceding variety. Pkt. 10c, 100 seeds 30c.

DRACAENA AUSTRALIS. (Cordyline australis.) New Zealand. 20 feet. A popular plant for pot culture, also for lawns and street planting. Forms a stout branched stem with broad leaves 2 to 3 feet long. Pkt. 15c, oz. 60c.

D. DRACO. "Dragon Tree." Canary Islands. 50 feet. Forms a stout stem crowned with numerous sword-shaped leaves. 10 seeds 10c, 100 seeds 75c.

D. INDIVISA. (Cordyline indivisa.) New Zealand. 30 feet. Grows much more rapidly than either of the preceding, with long narrow leaves and slender stems. Pkt. 15c, oz. 30c.

DORYANTHE PALMERI. A valuable decorative plant from Australia. The plants throw up numerous leaves 5 to 7 feet long, and flower stems 5 to 10 feet high, each bearing a large thrysus of deep scarlet flowers. It takes the plants several years to reach the blooming stage, but the young plants are very valuable for decorative pot plants. 25 seeds 25c, 100 seeds 75c.

MUSA ENSETE. "Abyssinian Banana." A splendid decorative species forming a single stout trunk and immense broad leaves. 10 to 15 feet long. 10 seeds 25c, 100 seeds $2.00.

PHORMIUM TENAX. "New Zealand Flax." 6 feet. A fine plant for sub-tropical beds. Large, erect-growing, dark green leaves. Pkt. 15c, oz. 75c.

STRELETTIA NIGRILL. South Africa. 15 to 20 feet. A rare species with large flowers of grotesque form, white and blue. Forms a heavy stem and large, broad leaves. Soak the seeds in hot water for 24 hours before sowing. It is better to use bottom heat in germinating this seed, though it has been grown fairly well without. 10 seeds 25c, 100 seeds $2.00.

YUCCA BREVIFOLIA. "Joshua Tree." California, Nevada and Utah. 20 to 90 feet. A peculiar plant with stout trunk and open crown of arm-like branches. Leaves bluish-green. Flowers 5 to 6 inches wide at the base tapering toward the apex, the edge furnished with minute teeth; flowers greenish white. Growing in scattered groves on the desert these strange plants impart a singularly weird appearance to the landscape. Pkt. 15c, oz. $1.00.

V. WHIFFLE. "Spanish Bayonet." California. A magnificent plant with narrow glaucous green leaves. Flower stems 8 to 15 feet high with often two, three and even six thousand waxen, pendulous blossoms. Pkt. 10c, oz. 50c.
Nursery Department

OBSERVE WHEN ORDERING

SHIPPING.—All goods forwarded at purchasers' expense and risk. Please state the way you wish goods sent, whether by express, freight or mail. I advise the shipment of all plants by express, as it insures prompt delivery. In the case of heavy balled plants, as orange trees, etc., shipment can be made by freight, and by my careful system of packing they travel long distances in good condition. If to be sent by mail add postage at Parcel Post rates. No Plant orders shipped C. O. D.

PACKING.—On all plant orders packing is charged for at cost of labor and material; add 15 per cent for packing charges.

INSPECTION.—A Horticultural Inspector's Certificate goes with every shipment sent out, thus ensuring stock free from insect pests and disease.

NON-WARRANTY.—While I exercise the greatest care to have all seeds pure and reliable, I do not give any warranty, expressed or implied, as to purity, description, quality, productiveness or any other matter of seeds, bulbs, plants or trees I send out and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they must be returned at once.

Field Grown Roses

Strong Field Grown Roses in dormant state supplied from January to April 1st.

NEW AND RARE BUSH ROSES

CONSTANCE. Per. Beautiful orange yellow buds streaked with crimson, opening to various shades of yellow. Quite distinct; free bloomer. Each, $1.00.

EDWARD MAWLEY. Hybrid Tea. This wonderful rose named after the well-known English Rosarian, is a splendid addition to the family of roses. It is a rich velvety crimson color, a true hybrid tea. Its size, form, color, freedom of blooming and habit of growth are all that could be desired. Each, 75c.

GOLDEN EMBLEM. Hybrid Tea. One of the very best of the new roses. Long pointed buds, golden yellow beautifully shaded with crimson on the outer petals, opening to a clear golden yellow flower. Free and constant bloomer, vigorous grower with rich, deep, glossy green foliage. Each, $1.50.

HADLEY. Hybrid Tea. Deep velvety crimson; flowers carried on long stiff stems. The best of the deep red hybrid tea roses. Each, 75c.

HOOSIER BEAUTY. Hybrid Tea. Glowing crimson scarlet with darker shadings, velvety texture and very fragrant; long pointed buds on stiff stems. Of robust growth, a continuous bloomer. Each, 75c.

JULIET. Hybrid Tea. A remarkably beautiful rose, inside of petals rich red, outside old gold. Extremely fragrant, free and constant bloomer. Each, 75c.

LOS ANGELES. Hybrid Tea. A glorious rose of Southern California origin. In color it is distinct from any other rose grown, being a rich flame pink shaded with golden yellow. Huge clusters of large robust buds and is a strong, vigorous grower. Each, 75c.

LOUISE CATHERINE BRESLAU. Per. Beautiful coral red shaded chrome yellow changing to shrimp pink and coppery orange as blooms open. Quite distinct; of good habit. Each, 75c.

MADAME BUTTERFLY. Hybrid Tea. A sport from Opalina which it resembles in general character. Large perfect buds on long stems, brilliant pink shaded apricot and gold. A strong grower and profuse bloomer. Each, $1.00.

MADAME EDOUARD HERRIOTT. Coral red shaded with yellow at the base, passing to shrimp red. One of the greatest rose novelties ever introduced. Winner of the Gold Cup offered by the Daily Mail and the Gold Medal of the National Rose Society of England. Each, $1.00.


MISS LOUPA ARMOUR. Per. Deep coral red with golden coppery suffusion, a wonderful combination of colors. Flowers very double and cup-shaped. Plants of vigorous growth and a free and constant bloomer. Each, $1.00.

MRS. S. K. RINDGE. Per. Clear yellow, becoming suffused with soft pink as the flower opens. Long pointed buds, the outer petals often stained with red. A very strong grower with large leathery foliage. Succeeds under all conditions and flowers freely. Each, $1.00.

SUNBURST. Hybrid Tea. A grand new rose, very large and perfectly formed flowers and long, pointed buds, yellow shaded with orange, the outer petals of a lighter shade. Of strong, vigorous growth, sending up stout stems heavily clothed with handsome foliage. One of the very best roses of late introduction. Each, 75c.

LOUISE CATHERINE BRESLAU

MADAME EDOUARD HERRIOTT

MADAME BUTTERFLY

MADAME LEON LAIN

MISS LOUPA ARMOUR

MRS. S. K. RINDGE

SUNBURST
BUSH ROSES
GENERAL COLLECTION

FRAU KARL DRUSCHKI. Hybrid Perpetual. Pure snow white, large perfect flowers on long stems; free flowering; rich, handsome foliage. Each, 60c.

GEORGE DICKSON. Color velvety, dark crimson; of splendid shape and good substance. Each, 60c.

GENERAL MEARTHUR. Hybrid Tea. Dazzling crimson scarlet. Buds are of good shape and produced on long stems; foliage is a clear glossy green. A free bloomer; one of the best for cutting. Each, 60c.

GLOIRE DES ROSEMANES. (Ragged Rohn.) Bengal. One of the most popular roses grown, largely used for hedges and for planting along driveways or roadsides. Large semi-double flowers, growing in clusters. Color, brilliant crimson. Very free-flowing. Each, 50c.

GRUSS AN TEPLITZ. Hybrid Tea. Rich fiery scarlet shading to velvety crimson; blooms freely and succeeds well in a hot climate. Each, 60c.

IRISH ELEGANCE. Hybrid Tea. A beautiful single rose; apricot shading to bronze at base. Each 75c.

IRISH FIRE FLAME. Hybrid Tea. Beautiful single flowers; buds deep rich orange splashed with crimson, inside of flower old gold. Each, 75c.

KAESEHORN AUGUSTA VICTORIA. Hybrid Tea. Pure white, large, of good form and a continuous bloomer. Each, 60c.

KILLARNEY. Hybrid Tea. The "Irish Rose." Brilliant carmine pink, marbled in creamy white. Extremely long buds on long, stiff stems; fine foliage; one of the very best varieties for cutting. Each, 60c.


LADY HILLINGDON. Tea. A splendid rose of recent introduction. Long, pointed buds. Color, clear, deep apricot yellow without any shading. It is of vigorous growth, with handsome, deep green foliage and blooms continuously throughout a long season. By many this is considered the best yellow rose yet introduced. Each, 75c.

MADAME CAROLINE TESTOUT. Hybrid Tea. Clear pink, large full flowers, very sweet, a strong grower and good bloomer. Each, 60c.

MADAME CECIL BRUNNER. Polyantha. "The Baby Rose." Color salmon-rose; the finest of the miniature roses. Each, 60c.

MAMAN COCHET. Tea. Deep rose pink, inner petals silvery rose, shaded and touched with yellow; fine buds; keeps well when cut; great favorite with florists. Each, 60c.

MRS. AARON WARD. Hybrid Tea. Deep orange yellow shading to creamy yellow at the ends of the petals. The buds are cupped and very deep, showing the glowing heart to the best advantage. Each, 75c.

OPHELIA. Salmon flesh shaded with rose and chamois at center; long pointed buds, free bloomer. Each, 60c.

PAUL NEYRON. Hybrid Perpetual. Deep rose; the largest of all roses, strong, erect grower, large, handsome foliage. Each, 60c.

RADIANCE. Hybrid Tea. A lovely rose pink with coral shadings. Very sweet scented; a strong grower and free bloomer. Each, 60c.

ULRICH BRUNNER. Hybrid Perpetual. Brilliant cherry red, flowers large and produced on long stems. Each, 60c.

WHITE MAMAN COCHET. Tea. White, sometimes tinged with blush; fine for cutting. Each, 60c.

CLIMBING ROSES

CHEROKEE. Single. Pure white, large yellow stamens, a lovely contrasting color, good foliage, a rapid grower; valuable covering for fences, etc. Blooms in spring. Each, 60c.

CLIMBING BELLE SIEBRECHT. Tea. One of the best climbing roses. Flowers large, full and double, long pointed buds. Color rich pink. Each, 60c.

CLIMBING CAROLINE TESTOUT. Hybrid Tea. Clear bright pink; large, well-formed flowers. Each, 60c.

CLIMBING KAISERIN. Hybrid Tea. Considered the best pure white climbing rose, continuous bloomer. Each 60c.

CLIMBING LIBERTY. Hybrid Tea. Brilliant, velvety crimson; large and of beautiful form. A free bloomer, lasting well when cut. Each, 75c.

CLIMBING MADAME CECIL BRUNNER. Polyantha. Pink, salmon, crimson, with apricot shading; a strong grower. Each, 60c.

CLIMBING YELLOW MADAME CECIL BRUNNER. Polyantha. New, same as preceding except in color, which is apricot yellow. Each, 75c.

CLIMBING SUNBURST. Hybrid Tea. The climbing form of this beautiful yellow rose. Each $1.00.

CLIMBING WHITE COCHET. Tea. Identical with the well known White Maman Cochet bush rose, except that it is of climbing habit. Each, 75c.

CLIMBING WOOTION. Tea. Velvety crimson, vigorous grower, fine foliage, profuse rich, glossy foliage. Each, 60c.

DUCHESS DE AURESTADT. Tea. Pure sulphur yellow, perfectly formed buds and large globular flowers, very fragrant. Similar to the well known Marechal Niel but a stronger grower. Each, $1.00.

GOLD OF OPHIR OR BEAUTY OF GLAZENWOOD. Noisette. Apricot-yellow, suffused with coppery-red; rapid grower, free of disease, blooming abundantly in spring. Each, 60c.

PINK CHEROKEE. A climbing rose of rare beauty and without doubt one of the finest varieties ever introduced. The buds are produced in great profusion, in color a most charming shade of light pink and deliciously fragrant. The plants are of rampant growth with bright, shining green foliage, and present a magnificent sight when in full bloom. Each, 60c.

RAMONA, OR RED CHEROKEE. Similar to the preceding, but with deep red flowers. Each, 60c.

REVE D'OR. Tea. Apricot-yellow with orange and fawn tints, free bloomer, hardy and rapid grower. Each, 60c.

CANNAS

FIREBIRD. Flowers of immense size, often 8 inches across; intense deep scarlet. Each, 35c; doz., $3.50.

HUNGARIA. Delicate rose pink, one of the very best. Each, 25c; doz., $2.50.

JUNE. Pink, velvety texture; very fragrant. Each, 25c; doz., 60c.

OLYMPIA. Beautiful carmine rose, with lighter shade towards the center. Each, 25c; doz., $2.50.

WOMEN. Scarlet and orange. Each, 25c; doz., $2.50.
CACTUS DAHLIAS

COUNTESS OF LONSDALE. Salmon red and rose. Each 35c.

EDITH CARTER. Yellow tipped, bright red. Each 50c.

GOLDEN WEST. Chrysanthemum-flowered type, buff orange shaded sunset. For cutting purposes this is the best dahlia ever grown. Each 50c.

HELEN DURNBAUCH. Delicate blush deepening toward the center to a soft tint. Each, 75c.

DELPHINIUM BELLADONNA HYBRIDS. Various shades of blue. Balled. Each, 55c; per doz., $3.50.

DAISY. See Beils.

DAHLIAS

COOPER. Broad twisted petals. Copper and apricot. Each, 75c.

DR. PEARY. Deep moroon; large flower. Each, 75c.

MADAM WARDE. Curvate red shading to yellow in the center. Each, 50c.

HAMPTON COURT. Long stems; bright pink. Each, 50c.

GIALLO. Rich variations of scarlet and gold. Each 75c.

PERRY WEIDNER. Large flowers, strong stems; striking cherry red. Originated by Mr. Mulkey. Each, $1.00.

LIBERTY. Beautiful coral pink. Each, 75c.

DECORATIVE DAHLIAS

ABALONE. Shell pink, extra fine. Each, 50c.

AUG. NONIN. Red, very large flowers on long stems. Each, 50c.

DELILAH. Rosy pink. Each, 50c.

MINNA BURGHE. A wonderful cut flower; red. Each, 35c.

MADAM GUILLIOT. Attractive lavender and pink. Each, 35c.

MOONBEAM. Lemon yellow, perfect form. Each, 50c.

SHASTA. Large white flower. Long keeper. Each, $1.00.

YELLOW PRINCE. Free blooming; Large, golden yellow. Each, $2.00.

PRIDE OF CALIFORNIA. The American Beauty of dahlia. Each, $1.00.

PRINCESS PAT. One of the best of the newer sorts. Old rose. Each, $2.50.

SOUV. DE. GUSTAVE DOAZON. Fiery red, immense flower. Each, 35c.


SHOW DAHLIAS

A. D. LIVONI. Clear pink, an old favorite. Each, 35c.

GRAND DUTCHESS MARIE. Soft buff, overlaid with orange. Each, 50c.

W. W. RAWSON. Amethyst blue and lavender. Each, 50c.

MRS. LAUGHLIN. Buff, red edge striking contrast, each, 50c.

JOLATTOR DHAHILAS

GEANT D. LYON. Dark moroon; white center petals; a striking flower. Each, 75c.

MAURICE RAYORIE. Bold red collar. Each, 50c.

POMPON DAHLIAS

BELLE OF SPRINGFIELD. Brick red, small flower. Each, 95c.

DARKNESS. A very deep moroon, almost black. Each 50c.

SNOWCLAD. Pure white, yellow center. Each, 35c.

BRUNETTE. Red and white. Each, 35c.

LITTLE BEESWING. Yellow tipped with crimson. Each, 65c.

FUCHSIAS. We have a splendid assortment of the single and double varieties. Each, 50c.

GERANIUMS, IVY LEAVED. All the popular kinds. Each, 20c; per doz., $2.00.

GERANIUMS, LADY WASHINGTON. See Pelargonium.

GERANIUMS, SINGLE AND DOUBLE VARIETIES. All the popular kinds. Each, 25c; per doz., $2.00.

GERBERA JAMESONII HYBRIDS. Beautiful hybrids of the Transvaal Daisy. Each, 50c; per doz., $5.00.

GEUM, LADY STRATHBURN. New, double, deep rich yellow. In 3-inch pots. Each, 25c; doz., $2.50.

GEUM, MRS. BRADSHAW. Double, bright scarlet. In 3-inch pots. Each, 10c; per doz., $1.00.

HELIOSTROPE. Leading varieties. Each, 25c; doz., $2.50.

LANTANA. Leading varieties. Each, 25c; doz., $2.00.

LIPPM. REEPS. Used for lawns and for covering banks requiring very little water. In flats, $1.50.

LOBELIA. Crystal Palace Compacta. Per doz., 50c; per 100, $3.00.

MISCELLANEOUS FLOWERING PLANTS
AGAPANTHUS UMBELLATUS, "Blue African Lilly." Flowers sent high crowned with large umbels of from 30 to 90 sky blue, illy-like flowers Long glossy evergreen leaves. Each 15c to 50c.

AMARYLLIS BELADONNA. "Beladonna Lily." Large rose pink flowers. Each 25c.

AMARYLLIS JOHNSONI. Flowers very large, red, orange, etc. Each in double clusters of 10 and mixed. Each 50c.

AMARYLLIS VITTATA HYBRIDS. A great variety of shades, mostly white grounds marked with pink, scarlet, crimson or maroon; very large flowers, extra fine. Each 50c.

CAMPANULA BLOOMING FLAX. "Elephants Ears." Large handsome leaves, often 3 feet long by 3 feet wide, very effective on a lawn; requires plenty of water. Each 10c.

CALLA, WHITE. (Richardia aethiopica.) "Lily of the Nile" or "Calla Lily." Each 15c; per doz., 50c.

CAMELLIA YAPONICA. (Kakuyu,) The finest introductions for many years. Flowers fully as large as the ordinary white variety, but deep rich golden yellow foliage dark green faintly spotted with white. Each 35c.

GLADIOLUS

Gladiolus can be planted in any good garden soil, eight to twelve inches apart, two to inches deep.

ALICE TIPLADY. Primulinas hybridus. New, one of the most beautiful Gladioli ever introduced. Color: orange-salmon and flame pink, a shade now in great demand in flowers. Excellent for cutting. Each 15c; doz., $1.50; 100, $10.00.

AMERICA. Soft red flesh pink. Each, 10c; doz., 50c; 100, $5.00.

BARON HULOT. Violet blue. Each, 15c; doz., $1.50.

BYRON L. SMITH. Lavender pink on white ground; color enhanced on orchid, extra fine. Each, 30c; doz., $1.00.

CHICKENJACK. Dark red. Each, 10c; doz., $1.00; 100, $7.00.

CWEREDAL FOCH. Rich pink, very large flowers. Each, 15c; doz., $1.50; 100, $10.00.

HALLEY. Salmon pink. Each, 10c; doz., $1.00; 100, $7.00.

LILY WHITE. Snow white. Each, 10c; doz., $1.00; 100, $7.00.

MARY PICKFORD. Creamy white, throat sulphur yellow. Each, 30c; doz., $3.00.

NOVA. Light violet blue. Each, 15c; doz., $1.50; 100, $10.00.

PRINCE OF WALES. Salmon shaded apricot, extra fine. Each, 15c; doz., $1.50; 100, $10.00.

SUPERB MIXTURE OF ALL SHADES. Each, 10c; doz., 50c; 100, $5.00.
CALIFORNIA NATIVE PLANTS

I make a speciality of growing California Native Trees and Shrubs and have a large assortiment in my nursery. The principal kinds will be found in the following list. I also have several species in quantities not sufficient to pay for listing here. If you are looking for anything not described in these pages, write and send a list of your wants. I may have a few of them in stock.

TWO NEW SPECIES

Fremontia mexicana. A new species found just over the line in Lower California and described by Dr. Anstruther Davidson in the Bulletin of the Southern California Academy of Sciences, July, 1917. Both the flowers and foliage are larger than those of Fremontia californica. The flowers are also a much darker color, being almost orange yellow and are a rich reddish brown on the under side. The seeds are about half the size and jet black. Much more desirable than the latter from an ornamental standpoint, and makes a splendid shrub for a dry hot place. In gal. cans. Each, $1.50. In 5-gal. cans. Each, $2.00.

Lupinus paynei. (Lupine).—A native California species discovered by the writer in the foothills near Santa Susana and named in his honor by Dr. Anstruther Davidson, the writer. From Los Angeles. For his description of this plant see Bulletin of the Southern California Academy of Sciences, July, 1917.

I believe this is the most wonderful Tree Lupine in the world. It forms large round topped shrubs 4 to 8 feet high, and has 3 or 4 handsome racemes 8 inches in diameter. One large specimen measured 8 inches through the trunk, 8 1/2 feet high and 13 1/2 feet through at base. The blooms had over 500 flowers blooming at one time.

The foliage is very handsome and silvery green, and the tree in large sprays with pink and yellow blossoms, 12 inches, some. They remind one of wistaria blossoms and appear in many beautiful shades; hardly two plants are just alike; some plants are pale lavender, pink, dark blue, purple, rose pink, flesh pink or white, all with a beautiful yellow blotch on the standard. The blossoms are very fragrant and when the flower is blooming are sufficient to perfume a whole house. The plants bloom in the spring and the whole bush blossoms simultaneously. The foliage is in a heavy reddish clay soil. In small pots, each 50c.

BERGHERIS NEVINII—Nevin's Burberry

A very rare species. Found only in one locality, now almost extinct and never before grown under cultivation. It was discovered in 1882 by Dr. J. C. Nevins of Los Angeles and named by Asa Gray. These plants grow in a dry sandy wash withstanding extremes of heat and drought. From observations on my own plants, however, I find that I will stand considerable amount of water and will also thrive well in the hot house for a few years. These plants will bloom under all conditions. In the young state the plants are of rather sparse growth but eventually form thick, well branched tufts. The foliage is gray green and very attractive. The blossoms which appear from Christmas until March are about the size of a cherry; purple with a yellowish brown bar of about 7/16 inch in length with a canary yellow. They are produced in large clusters at the ends of the branches. In full bloom they are 2 to 4 feet in length. When in full bloom this shrub presents a magnificent sight and I consider it a great acquisition to my list of native plants. In gallon cans. Each, 75c. Balled, 2 to 3 ft. Each, $2.50.

TREES AND SHRUBS

All Species in the following list, unless otherwise stated, are evergreen.

Acer macrophyllum. "California Maple." A deciduous tree of great beauty and of fine old trees in the deeply fluted, rich green, paler beneath. Found growing along the coast from San Diego to N. California. This tree thrives under cultivation in the valleys. In gal. cans. Each, 75c. In 5-gal. cans. Each, $2.00.


Atriplex lenticifrons. "Desert Salt Bush." Silvery grey foliage with small heads of flowers, on long plumes or for a hedge. In 3 inch pots, each 25c; in 5-gal. cans. Each, $2.00.


A. corymbosa. "California Hackberry." A shrub or small tree of spreading habit, found in the canyons. The young plants the foliage is glaucous but later changes to deep rich green. In gal. cans. Each, 75c. Balled 2 to 3 ft. $2.00.


Ceanothus. "California Wild Lilacs." The Ceanothus is among the most desirable of our native shrubs and particularly useful for planting in dry places. The following are some of the best species.

C. arbores. From the islands off the coast of Southern California. A large shrub or small tree of rapid growth. Flowers in bell-shaped clusters, blue, handsome foliage. In gal. cans. Each, $1.00. In 5-gal. cans. Each, $2.50.


Cercocarpus leucodermis. "Tree Coreopsis." A peculiar plant with stout trunk 3 to 6 feet high and a few arched, daisy-like branches, rich green foliage, lemon yellow daisy-like flowers. In gal. cans. Each, 75c.

Eriogonum fasciculatum. "Wild Buckwheat." Low shrub with short needle-like leaves. It is especially valuable for dry banks and flowers in middle of summer. The blossoms are in large clusters, white, tinged pink. In 4-inch pots, each 35c.

E. giganteum. "Dune Buckwheat." Native of Catalina Island. Low grows 2 to 5 feet high. Large silvery grey foliage and large heads of pale pink flowers. In 4-inch pots. Each, 50c.


Juniperus californica. "California Juniper." A shrub or small tree of spreading habit, found in the canyons. The young plants the foliage is glaucous but later changes to deep rich green. In gal. cans. Each, 75c. Balled 2 to 3 ft. $2.00.

Lupinus arborescens, "Yellow Tree Lupin." A shrubby species especially valuable for covering dry sandy slopes. It produces great quantities of rich sulphur yellow flowers in spring. In pots, each 25c; doz. $2.50.

Lupinus loxoglossus. "Blue Bush Lupine." Very desirable for sandy soils and is hardy all through the winter and early spring months. It can be planted from as early as possible, with favorable results to follow. In pots, each 25c; doz. $2.50.

Minulus glutinosus, "Sticky Monkey Flower." Small shrub 2 to 5 feet high. Flowers buff or salmon-colored resembling an azalea in shape. In 4-inch pots. Each, 75c; 5, $3.50.

Minulus glutinosus. Brown flowered form. A fine of the preceding, differing only in the color of the flowers. In 4-inch pots. Each, 75c; 5, $3.50.

Minulus glutinosus. Cream-colored form. Another for early seasons, blooms well with cream-colored flowers. Each, 50c; doz. $5.00.

Minulus pinicola. "Red-sticky Monkey Flower." A species from San Diego county; flowers bright red. In 4-inch pots. Each, 50c; doz. $5.00.


Pentstemon antirrhinoides, "Yellow Bush Pentstemon." Very handsome, flowers large, bright yellow. In 4-inch pots. Each, 50c; doz. $5.00.

Pentstemon cordifolius, "Scarlet Honeysuckle." A woody plant, 6 to 8 feet high, flowers orange scarlet. In 4-inch pots. Each, 75c; doz. $7.00.


Platanus racemosa, "California Sycamore." A well known deciduous tree. In gal. cans, Each, 75c.

P. trichocarpa, "Black Cottonwood." Deciduous tree found in many canyons. In Calif. Each, 75c.

Prunus ilicifolia, "California Wild Cherry." One of the most beautiful of native shrubs. It bears heavy clusters of rosy white blossoms. In gal. cans, Each, 50c. In 5-gal. cans, Each, $2.00.

P. serrula, "Torrey Pine." Found on the bluffs at Del Mar, in San Diego county; a rather small tree of spreading habit, needles long and five in a cluster, sends out a young tree well suited to cultivation. In gal. cans, Each, 75c.


Quercus lobata, "Live Oak." A well known deciduous tree. In gal. cans, Each, 75c.

Rhus integrifolia. Handsome shrub with buff, leathery foliage, and orange flowers. In gal. cans, Each, 75c. In 5-gal. cans, Each, $2.00.


R. ovata. Has large, rich green, leathery foliage and forms a compact growing shrub of great beauty. One of the very best shrubs for a dry place. In gal. cans, Each, 75c. In 5-gal. cans, Each, $2.00.

Rubes malvaceum, "Pink Flowering Current." A very pretty shrub, with pale pink flowers appearing from late fall to spring. In gal. cans, Each, 75c. In 5-gal. cans, Each, $2.00.

R. tenuifolium. "Yellow Flowering Current." A small shrub which sends up new shoots from the root, making quite a show from May to July. In spring it is covered with a perfect shower of dark yellow flowers, followed by quantities of fruit which make excellent jelly. In gal. cans, Each, 75c.

R. speciosum, "Fuchsia-flowered Gooseberry." Large, cardinal red flowers resembling a fuchsia. In gal. cans, Each, 75c. In 5 gal. cans, Each, $2.00.

Rhamnus californica. "Wild Plum." A fragrant flowered shrub appearing until past midsummer. Thrives especially well in heavy soils and will grow in the full sun or in shade. In gal. cans, Each, 75c. In 5 gal. cans, Each, $2.00.

Sambucus glauca, "California Elder." A deciduous tree but coming out into leaf very early in spring. Beautiful light green foliage and clusters of creamy white flowers. In gal. cans, Each, 75c.

Sequoia sempervirens. "California Redwood." In gal. cans, Each, 75c.

Symphoricarpus mollis, "Dwarf Snowberry." A low growing deciduous shrub which makes a shady place. In gal. cans, Each, 50c.

Umbellularia californica. "California Laurel" or "Bay." A handsome tree, blooms well in shady places. In gal. cans, Each, 75c. In 5-gal. cans, Each, $2.00.

PERENNIAL PLANTS

Aster greatae. "Wild Aster." Flowers large, rich lavender. prefers a moist place. In pots, each 15c; doz. $1.50.

Aster hesperius. "Wild Aster." Flowers pale lavender. Prefers a moist place. In pots, each 15c; doz. $1.50.

Aquilegia truncaata, "Columbine." Flowers deep scarlet tipped with yellow. In 2-1/2-inch pots, each, 20c; doz., $2.00.

Asters grandiflorus, "Humming Bird Sage." A stout growing plant with large leaves and spikes of red flowers. Prefers a shady situation. In 4-inch pots, Each, 35c; doz., $3.50.

Carex cirrollata, "Sea Dahlia." Large flowers, 3 to 4 inches in diameter, light canary yellow. In 3-inch pots, Each, 25c; doz., $2.00.


Fragaria californica, "California Wild Strawberry." Valuable as a ground cover, especially under trees. In 2-1/2-inch pots. Per doz. 75c; 100, $5.00.

Lupinus clyoides, "Canyon Lupine." A magnificent species, often growing 6 feet high or more. It has large, handsome foliage and very long racemes of deep pink or rose-purple flowers. Grows in moist places. In 3-inch pots. Each, 25c; doz., $2.50.


Pentstemon centranthifolius, "Scarlet Bugler." Glamous foliage, rich vermilion flowers. In 3-inch pots, Each, 25c; doz., $2.00.

Pentstemon heterophyllus, "Veil Beard Tongue." A bushy plant, 1 1/2 to 2 feet high. Flowers trumpet-shaped, royal purple. In 2-1/2 inch pots. Each, 25c; doz., $2.00.

Pentstemon palmeri, "White Pentstemon." A spreading plant with thick glaucous foliage and large flowers, creamy white shaded with pink. In 2-inch pots, Each, 25c; doz., $2.00.

Pentstemon spectabilis, "Blue Pentstemon." A magnificent plant; grows 4 to 7 feet high; flowers large, blue and royal purple. 3-inch pots, each, 25c; doz., $2.00.

Romneya coulteri, "Matilija Poppy." Strong plants especially desirable for California. In gal. cans, Each, 75c.

Sidalcea parviflora, "Wild Hollyhock." Rose pink flowers; prefers a moist situation. In pots, each 25c.


Solanum ocellentalis, "Western Golden Rod." Large yellow flowers. Thrives best in a wet place. In pots, Each, 30c; doz., $2.00.

Thalictrum polygamum, "Foam Flower." Beautiful foliage resembling Mabelina fern; panicules of yellow green flowers. Prefers a moist, shady place. In 3-inch pots, Each, 25c; doz., $2.00.

Woadwardia radicans, "Chain Fern." A very beautiful fern of easy culture. Spreads 3 to 5 feet long. In 5 gal. cans, Each, 1.50.

Yucca whipplei, "Spanish Bayonet." A well known plant. In 4-inch pots, Each, 75c.

All trees and shrubs in the following list, unless otherwise stated, are evergreen.

**ABELIA KUPESTRIS.** A pretty shrub with spreading, drooping branches, small green leaves and numerous tube-like flowers, pink shaded with white. In favorable locations this shrub will bloom almost all the year. In 5-gal. cans. Each, $2.50.

**ACACIA BAILEYANA.** 30 feet. A strikingly beautiful tree with glaucous pinnate foliage and covered late in winter with canary-yellow flowers which continue until early in spring. In 5-gal. cans, 2 to 3 ft. Each, 75c.

**ARMAATA.** "Kangaroo Thorn." 10 feet. A spreading shrub, with small yellow flowers, excellent for grouping, also for hedges. In gal. cans. Each, 75c.

**CULTRIFORMIS.** "Knife-leaved Acacia." 8 feet. A pretty shrub, with triangular shaped leaves of a glaucous green color and yellow flowers in axillary racemes. In gal. cans 2 to 3 ft. Each, 75c.

**DEALBATA.** "Silver Wattle." 60 feet. A magnificently rapid growing tree with glaucous, finely cut foliage and covered with golden yellow flowers. One of the best for street planting. In gal. cans, 3 to 4 ft. Each, 75c. In 5-gal. cans. Each, $2.00.


**LONIFOLIA.** "Sydney Golden Wattle." 30 feet, common in southern California, with the wrong name under the name of A. latifolia. Of rather slender habit, if properly trimmed it makes a fine street tree; also does well near the ocean. Dense, long, large, glossy green. Very free flowering. Cathkins of light yellow flowers at the axil of every leaf. In gal. cans. Each, 75c. In 5-gal. cans. Each, $2.00.

**MELANOXYLON.** "Blackwood." 75 feet, of compact, pyramidal growth. The favorite tree for street planting. In 5-gal. cans. Each, 69c.

**PENDULA.** "Weeping Myall." A rare and beautiful tree, with weeping branches, narrow silvery gray foliage and golden yellow flowers. In gal. cans. Each, 75c.

**PodaLyriaefolia.** A very rare and beautiful shrub, somewhat similar to A. cultiformis, but with larger leaves and larger flowers which are produced in immense quantities early in winter and for this reason it is especially recommended for cutting. Flowers rich canary-yellow. In gal. cans, 2 to 3 ft. Each, 75c.

**PRUNOSA.** 25 feet. A very beautiful tree with large, handsome, finely-cut foliage, which is of a rich light yellow. The young foliage and shoots being of a soft rose color; flowers pale yellow. In 5 gal. cans. Each, 50c. In 5-gal. cans. Each, $2.00.

**SALIGNA.** Of drooping habit; leaves long, flowers rich yellow. In gal. cans. Each, 75c.

**VERTICILLATA.** 12 feet. A shrub of rather spreading habit, with small linear leaves and with flower spikes one inch or less in length; flowers deep yellow and extending the entire length of the young branches; one of the best for planting in groups. In gal. cans, 3 to 4 ft. Each, 75c.

**ANGOPHORA LANCEOLATA.** A tall spreading tree with clean, smooth bark, much resembling a eucalyptus, to which it is closely related. It is valuable for park and ornamental purposes, as single specimen trees. In gal. cans. Each, 75c.

**ARBUTUS UNEDO.** "Strawberry Tree." A very desirable shrub with beautiful dark green foliage. In the fall the plants are covered with berries. In gal. cans and fruit; the latter in appearance like strawberries. In 5 gal. cans. Each, 50c.

**BERRISER AQUIFOLIUM.** "Oregon Grape." 4 feet. A handsome shrub, with shining, purplish, prickly leaves and bright yellow flowers, followed by blue or nearly black berries. In gal. cans. Each, 75c.

**B. DARWINI.** 3 feet. A beautiful shrub with many slender branches, drooping towards the ends. The foliage is dark green and prickly, somewhat like holly, but the flowers are of a rose color it flows through the winter. In early spring the plants are covered with a profusion of golden yellow flowers. In gal. cans. Each, 75c.

**B. WILSONAE.** A valuable shrub of late introduction. The plants form low bushes, only a foot or so high, but with several feet of spread, completely covering the ground with a dense mass of small, bright green foliage, which turns to reddish brown in fall. The flowers are in clusters, golden yellow and followed by salmon-colored berries. In 5-gal. cans. Each, 75c.

**BUDDELLYA ASIATICA.** A tall shrub with spreading and slightly drooping branches, producing large terminal spikes of small, white, deliciously fragrant flowers. A splendid shrub for planting as a background for smaller shrubs and flowers. In gal. cans. Each, 75c.

**B. MAGNIFICA.** Of similar habit to the preceding but having larger foliage and large spikes of purplish red flowers. In gal. cans. Each, 75c.

**BROOM.** See Spartium.


**CAMPHORA OFFICINALIS.** "Camphor Tree." China and Japan. 46 feet. A very ornamental, symmetrical growing tree, with bright green foliage and the young foliage being of a pleasing delicate rose color. Well adapted for street planting. The tree from which the camphor of commerce is extracted. In gal. cans, 2 to 3 ft. Each, 75c.

**CARISSA GRANDIFLORA.** A very handsome shrub with glossy green leaves and white flowers, followed by large, red, edible fruits. In gal. cans. Each, 75c.

**CASSIA ARTEMISIOIDES.** Central Australia. A pretty shrub, with finely cut silvery gray foliage and clear yellow flowers. Best suited for planting in a position of drought. In gal. cans. Each, 75c.

**CASUARINA STRIATA.** "She Oak." Attaining a height of about 100 ft. A thick-growing tree, which makes a handsome tree, and particularly valuable for planting along road sides. In cans, 3 ft. Each, 75c.

**CEDRUS DEODORAR.** "Himalayan Cedar." 120 feet. One of the most handsome trees in cultivation, succeeding most remarkably well in California. Drooping branches and silvery green foliage. Balled, 2 to 3 ft. Each, $2.50.


**CHAMAECYPARIS LAWSONIANA.** "Lawson's Cypress." 200 feet. One of the most striking and graceful of all the coniferous trees. The dense horizontally spreading pendulous branches, and flat, compressed foliage; unsurpassed for specimens on lawns. In gal. cans. Each, 75c. In 5 gal. cans. Each, $2.50.

**CHOISYA TERNATA.** A pretty shrub with bright green, deeply cut foliage and clusters of white, fragrant flowers. In gal. cans. Each, 75c.

**CITRUS LADANIFERUS MACULATUS.** "Spotted Rock Rose." A free flowering shrub of low spreading habit. Flowers 3 to 4 inches in diameter, pure white with crimson spot at base of petals. In gal. cans. Each, 60c.

**COPHOSMA BURGIEI.** A very handsome low growing shrub. The leaves are almost round, of a clean, glossy green color and have the appearance of having been varnished. It grows well, and is valuable for planting in small beds, around a porch or against a wall. In gal. cans, 2 ft. Each, 50c.

**CORONILLA GLAUCO.** A small shrub with glaucous foliage and quantities of bright yellow pea-shaped flowers. In gal. cans. Each, 50c.


C. PANOSA. Of spreading habit, with many gracefully drooping branches, graceful foliage, and berries. The varieties are equally frost hardy, and covered in fall and winter with quantities of bright red berries. In gal. cans. Each, 75c. In 5 gal. cans. Each, $2.00.

CRANE MYRTLE. See Lagerstroemia.

CRATAEGUS PYRACANTHA. “Evergreen Thorn,” or “Red Spreading Thorn,” 16 to 20 ft. high, evergreen shrub, with small dark green leaves and white flowers producing a pretty shrub, especially desirable for hedge rows. Large red berries which are particularly attractive, remaining on the plant all winter. In gal. cans. Each, 75c.

CRATAEGUS CRENLATA. Similar to the preceding but has narrower leaves and bright red berries. In gal. cans. Each, 75c.

CRATAEGUS YUNANENSIS. A very desirable shrub lately introduced from Yunnan, China. It is of low spreading habit, many of the branches being perfectly prostrate. The foliage is rich dark green, and in winter the plants are literally covered with brilliant scarlet berries. For covering banks this shrub probably has no equal. In gal. cans. Each, 75c. In 5-gal. cans. Each, $2.00.

CUPRESSUS ARIZONICA. “Arizona Blue Cypress.” 70 feet. A tree of great scenic value, and without doubt the finest of all cypresses. It grows quite rapidly and forms a perfect tree, thriving in almost any soil and free from heat and much frost. In gal. cans. Each, 75c. In 5-gal. cans. Each, $2.00.

CUPRESSPERSVIRENS, VAR. FASTIGIATA. “Italian Cypress.” A spreading tree with erect branches, growing close and parallel with the trunk. Large green foliage. In flats of 100 plants, per flat, $2.00. In gal. cans. Each, 50c.

DIOSMA ERICOIDES. (D. alba.) “Breath of Heaven.” A favorite shrub of small size, with fine, heath-like, feathery foliage and quantities of small white flowers. In gal. cans. Each 60c.

DURANTA PLUMIERI. “Golden Dew Drop.” A beautiful shrub of low habit, with large clusters of petals of pale blue flowers, followed by bright yellow berries. In gal. cans. Each 75c.

ERICA MEDITERRANEA, “Mediterranean Heath.” 4 feet. A densely branching shrub of globular shape, with small dark green foliage. In late winter and spring the plants are a perfect mass of small pink blossoms. The best of the Heaths for California. In gal. cans. Each 1.00.

E. MELANTHEA. A very desirable shrub. In late winter and spring the whole plant is literally covered with pink blossoms. In flats of 100 plants, per flat, $2.00. In gal. cans. Each 60c.

ESCALLONIA ALBA. 10 feet. A beautiful shrub of upright growth; leaves deep, glossy green; flowers pure white, in loose terminal clusters, appearing abundantly in fall and early winter. Gal. cans. Each 75c.

E. MONTEDIVENDIS. 12 feet. A large shrub, flowers in terminal clusters, pure white. It is in flower in late summer and the flower clusters are produced in great profusion, almost completely covering the plant. In gal. cans. Each 75c.

E. ROSEA. 10 feet. A very desirable kind, with conspicuous pink blossoms. In gal. cans. Each 75c.

E. RUBRA. 6 feet. A handsome shrub, with dark green foliage and large pink flowers. In gal. cans. Each 75c.


E. VIMINALIS. “Manna Gum.” An exceedingly handsome tree with long straight limbs, evergreen, and most picturesque for avenue planting. In gal. cans. Each, 50c.

I have about 50 more kinds of Eucalyptus in pots or cans, will be glad to send list of these upon request.

For full description of the above Eucalyptus trees see pages 46 to 47.

EUGENIA MYRTIFOLIA. “Australian Brush Cherry.” A small, spreading evergreen tree, with bright glossy-green foliage, the young growth often of a reddish color. It is of compact growth, suitable for shrubbery or as a single tree. In gal. cans, 1½ to 2 ft. Each 75c.

ECHINHERA. A rare species lately introduced. Forms a large tree, similar to the preceding, but larger. In gal. cans. Each, 75c.

FRAXINUS VELUTINAS. “Arizona Ash.” A deciduous tree, largely planted in Australia and New Mexico, for shade purposes, and is of great value, being of quick growth, standing both heat and drought remarkably well. In 20-gal. cans. Each, $2.50.

GENISTA CANARIENSIS. A pretty shrub, very effective for planting in groups, being covered in spring with bright yellow flowers. In gal cans, 2 to 3 ft. Each, 60c. In 5-gal. cans. Each, $2.00.


GREVILLEA ROBUSTA. “Silky Oak.” 150 feet. A large tree with pretty fawn-like foliage, covered late in spring with orange-colored flowers which are a great source of honey for bees; does well in all parts of California and is one of the most stately trees for avenue planting, thriving with scarcely any water. In gal. cans, 2 or 3 ft. Each 50c.

G. MEYLEMANNIA. A handsome shrub, especially valuable for planting in dry places. It has pretty feather foliage and produces a great profusion of bright scarlet flowers. In gal. cans. Each, 75c.

HAKEA LAURINA. (H. eucalyptoides.) 10 feet. A winter blooming shrub, with foliage similar to the Blackwood Ash. It bears curious, globose blossoms of red flowers with white stigmas. In gal. cans. Each $1.00.

HIBISCUS SYRIACUS. A handsome shrub with bright green foliage and large, snowy flowers. Single red or double red. In pots. Each $1.00.

HYDRAEGEA HORTENSIA. A well known deciduous shrub, with large leaves and immense heads of pink flowers. Valuable for small beds around a porch or against a wall, continuing in flower nearly all summer.

HYPERICUM HENRIETTAE. A very pretty shrub, with small foliage and large clusters of bright yellow flowers. In gal. cans. Each 75c.

H. MASONIA. A low growing shrub, producing quantities of large, single, bright yellow flowers with numerous long stamens, and brilliant yellow massing, flowering almost continuously. In gal. cans. Each, 60c.

JACARANDA MIMOSAEFOLIA. (J. oivafolia.) 30 feet. One of the finest of our flowering trees, literally covered in early summer with large blue bigonolia-like flowers. The foliage is finely cut like a fern and very pretty. In cans, 2 to 3 ft. Each $1.00.

LAGERSTROEMIA INDICA ROSEA. “Pink Crape Myrtle.” A well known deciduous shrub, producing an abundance of showy pink flowers. Each, $1.50.

LAMARIA PATANUM. A tall, coarse, conical pyramidal tree with ovate leaves, whitish underneath, flowers something like Hibiscus, pale rose color. In gal. cans, 3 to 4 ft. Each 75c.

LAURESTINUS. See Viburnum.

LAURUS CERASUS. “English Laurel.” A splendid shrub with broad shining leaves and creamy white flowers. In pots. Each 75c.
LEPTOSPERMUM. "Portugal Laurel." Dark green glossy leaves; flowers in large panicles, quite fragrant. A very desirable shrub. In gal. cans. Each 75c.

LEONOTIS LEONURUS. "Lion's Tail." A small shrub best known for its handsome flower and fall. Flowers are whorls, deep ruddy orange. In gal. cans. Each, 50c.

LEPTOSPERMUM LAEVIGATUM. This beautiful shrub does particularly well in California and is very valuable for planting in beds and for filling up odd corners. It grows rapidly and in the spring bears lovely white blossoms. In gal. cans, each 75c. In 5-gal. cans, each $2.00.

LIGUSTRUM JAPONICUM. "Japanese Privet." 20 feet. A large shrub or small tree, with glossy, dark green, leathery leaves, and pretty white flowers, and very trimming well. In flats of 100 plants, per 100, $3.00.


LEPNESENSE. "Small Leaved Privet." 10 feet. Much used for hedges in Southern California. It grows quickly and can be trimmed in any way desired, making a dense, thick hedge. Leaves small, light green, flowers white, in large sprays. In flats of 100 plants, per 100, $3.50.

LONGICERA NWITA. "Upright Evergreen Honey-suckle." A small shrub of recent introduction. It has very glossy leaves, and is a good hedge. Bare roots only. Very pretty for hedges or single specimens. In gal. cans. Each 50c.

MAGNOLIA GRANDIFLORA. 80 feet. One of the finest of the large flowering shrubs. The leaves are thick, bright green and rusty on the under side; flowers large, waxy white and fragrant. In gal. cans. Each $1.00.

MELALEUCA ERICIFOLIA. "Bottle Brush." A large shrub with small, narrow leaves and spikes of yellowish-white, brush-like flowers. In pots, 1\2 to 2 ft. Each 25c.

M. HYPERICIFOLIA. "Bottle Brush." A tall shrub with pretty, bright green, opposite leaves, and profuse clusters of rich red flowers. In pots, 1\2 to 2 ft. Each 50c.

MELIA AZEDARACH UMBRACLFORMIS. "Texas Umbrella Tree." A well known deciduous tree. The branches are erect and in a manner radiating from the trunk and with drooping foliage, give it that appearance of a gigantic umbrella. It is a handsome shade tree and will stand a great amount of heat. Bare roots 4 to 6 ft. Each $1.00.

MYRTUS COMMUNIS. "Common Myrtle." Handsome shrub with hard growth, with small, glossy green, aromatic leaves. Bears quantities of small, white, fragrant flowers. Valuable either for single plants or in groups. In gal. cans. Each 50c.

NANDINA DOMESTICA. "Japanese Nandina." A small shrub growing about 5 feet, but increasing by new stalks coming up from the root. The leaves are compound, into small leaflets, and the graceful, rich red when young, dark green at maturity but taking on beautiful coppery tones in winter. Florally, drooping, abundant, in quantities of bright scarlet berries. This shrub thrives remarkably well in California, growing in full sun, shade or partial shade. It also makes a splendid pot or tub plant. In gal. cans. Each $1.00.

OAK. See Quercus.

OLAYDER. A well known and favorite shrub. Double pink and double white. In gal. cans. Each 75c.

PEPPER TREE. See Schinus.

PICIGIA DIOSA. One of the most rapid growing trees known, with large, bright green foliage. Trees have been known to form a trunk 1\2 feet in diameter in 5 years. Produces quick shade. In gal. cans. Each 50c.

PHILODEPHUS MEXICANUS. "Evergreen Mock Orange." 2 to 3 feet, of somewhat trailing habit that produces quick shade. In gal. cans. Each 50c.

PINUS CANARIENSIS. "Blue Pine." 80 feet. A beautiful tree with grey blue, and green needles. Foliage is a striking contrast of blue color. It is of rapid growth, stands drought well and is one of the heat pines for Southern California. Best grown when used to form natural hedgerows. Large white fragrant flowers. In gal. cans. Each, 75c.

P. PINEA. "Italian Stone Pine." 60 feet. A very picturesque tree with branches spreading and usually coiled to the top of the tree. In gal. cans. Each 75c.

PITTSOSPERMUM EUGENIOIDEIS. 20 feet. A handsome shrub of upright growth, with light green leaves and dark stems. Thrives especially well for hedges, also as single specimen plants. In gal. cans. Each, 75c.

P. CHASSIFOLIUM. A tall growing shrub, with grey green, downy foliage and small deep red flowers. Thrives especially well for hedges. In gal. cans. Each, 75c. In 5 gal. cans. Each $2.00.


P. PHILLYREAEOIDES. A rare and graceful tree at taking a height of 30 ft. or more. Its general appearance it resembles the Weeping Willow, having drooping branches and narrow green leaves, but it has the beauty of being an evergreen tree. In gal. cans. Each 75c.

P. TIBIRA. A handsome shrub, with dark green, shining leaves and numerous white, fragrant flowers. In gal. cans. Each 60c.

P. UNDULATUM. A shrub or small tree, with large, lance-shaped, green, glossy leaves and white fragrant flowers. It makes a splendid hedge and is very handsome as single specimen plants; also suitable for street trees. In gal. cans. Each 75c.

PLATANUS ORIENTALIS. "European Sycamore." "Oriental Plane." A tall, beautiful tree. Leaves bright green, deeply cut. It thrives well in California and is valuable for park and avenue planting.

PLUMBAGO CAPENSIS. Spreading shrub or half climber producing great quantities of sky blue flowers. In gal. cans. Each 60c.


QUERCUS SUBER. "Cork Oak." A splendid tree of upright growth with dense head. It thrives well in California and is desirable for parks or for street planting, and is one of the very best trees for plant- ing along country roads. Covered with white, fragrant flowers. In gal. cans. Each 75c.

RAPHILEPIS JAPONICA. (R. ovata.) Japan. 12 feet. A beautiful compact shrub of rather slow growth. The leaves are oval, thick and leathery, and of a dark, rich green. In spring the plants are covered with white, fragrant flowers. In gal. cans. Each 75c.

R. INDICA HYBRIDA. A cross between R. indica and R. japonica. A very handsome shrub of rather compact growth with rich green foliage and many large clusters of small, white and fragrant flowers. In gal. cans. Each 75c.

SCHINUS MOLLE. "Pepper Tree." 50 feet. The most graceful of our cultivated trees, with its long branches of finely divided leaves, and its profuse flowering of coral red berries. It is the admiration of every tourist who visits our state. In gal. cans, 3 ft., each 50c.

SOLANUM RANTONNETI. A very desirable shrub with spreading, drooping, very glossy green leaves, and great quantities of violet-blue flowers. Blooms nearly the year round and requires very little water. In gal. cans. Each 75c.


STREPTOSOLON JAMESONII. A small shrub, particularly valuable for planting in dry, sunny situations. It thrives for a long time in full sun, producing quantities of yellow and orange colored flowers. In gal. cans, 1\2 ft. Each 60c.

THEUJA ORIENTALIS. (Botta orientalis.) "Chinese Arbor vitae." Valuable for planting as a pyramidal tree. Bright green foliage turning bronze or brown in the winter. Desirable as single specimen trees or for hedges. Balled, 2 to 3 ft. Each $3.00.

TRISTANIA CONFERTA. "Brisbane Box." A particularly beautiful tree, with large handsome foliage and white flowers. It thrives well in full sun and is very ornamental for single specimen trees or for street planting. In gal. cans. Each 75c.

UGLIELLA TREE. See Schinus.

VERONICA DECUSATA. A rather small shrub of compact habit. Foliage bright green; flowers in spikes, violet blue. In gal. cans. Each 75c.

Avocado or Alligator Pear

The Coming Tropical Fruit of Southern California,
Destined to Become the Most Profitable of all the Orchard Crops

AVOCADO. (Persea gratissima.) "Alligator Pear," "Aquacate." This splendid tropical fruit has attracted much attention of late in Southern California since it has been found that it can be grown successfully in sections where the orange and lemon thrive. It will, no doubt, be planted on a large scale, and become one of the best paying orchard crops. The trees now bearing have yielded high returns, many of them netting the owner from $100 to $200 per tree, and in one case $400 for one season's crop. It is the most wholesome and nutritious of all fruits, and in countries where grown extensively is a staple article of food. On account of the limited number of trees now bearing in California the fruit commands a very high price, good specimens selling as high as 75¢ each, and consequently only enjoyed by the more wealthy classes. Being as easy to grow as other fruit crops it will without doubt be planted on a large scale, the prices of the fruit will necessarily be lower but will be within the reach of everyone, and it will become a staple article of food. As the fruit stands shipping well the market is almost unlimited, and it is destined to become one of the best paying fruit crops for Southern California. The tree is of rapid growth, and particularly handsome with large, deep green leaves. It succeeds best in a deep loamy soil and attains a height from 20 to 40 feet.

DICKINSON. Fruit oval to obovate, dark purple, thick skin, 7 to 12 ounces. Flesh greenish yellow of good flavor. Of vigorous growth and very prolific. Ripens June to October. Balled 3 to 4 ft. Each $5.00.

FUERTE. Considered by many the best Avocado yet introduced. The fruit weighs a trifle under a pound and are smooth and green in color. The flavor is very rich. In the laboratories of the University of California this variety was found to contain 20.72 per cent of fat or oil which places it among the very best varieties for quality. The trees are very hardy, of vigorous growth and come into bearing much sooner than most varieties and produce a very heavy crop. Ripens from January to March, the time of year when Avocados bring the highest price. Balled, 3 to 4 ft. Each $5.00.

PUERTA. Fruit obovate, dark purple, skin thick, nearly smooth; 10 to 12 ounces. Flesh yellow of rich flavor. A rapid grower and very prolific. Ripens December to February. Balled 3 to 4 feet. Each $5.00.

SHARPLESS. Fruit large, averaging a pound to a pound and a half in weight. Skin thick and coarse, purplish black; flesh of rich flavor. A strong grower and prolific bearer. December to April. Balled 3 to 4 ft. Each $5.00.

SPINKS. Fruit nearly spherical, purplish black, thick skin; 16 to 20 ounces. Flesh cream-colored, of rich flavor. A prolific bearer. Ripens June to September. Balled 3 to 4 feet. Each $5.00.
New and Rare Fruits
Should be Planted Freely in all Gardens
Desirable for their beauty as Ornamental Plants as well as Economic Values

**CALIFORNIA WILD Currant**
(Ribes tenuiforum.)

Many people have tried to grow the red or white garden currants in this vicinity, only to meet with disappointment. Of course we must list them in our catalogues for we have customers in northern California and other parts, who want them and where they do quite well, but here in Southern California as a general thing they are a total failure. However, we, in Southern California, have a WildCurrant of our own which does quite well under cultivation and is not only worth growing for its fine fruit but also for its value as an ornamental shrub. For several years I have grown the Wild Yellow Flowering Currant for ornamental purposes. It has done so well under different conditions and borne such quantities of fruit, that I have decided to list it also for its economic value. It forms a small shrub, sending up new shoots from the root making quite a large clump. From mid-winter to spring it is covered with a perfect shower of deep yellow flowers, followed by quantities of fruit about the size of the ordinary red currant. When the fruits begin to ripen they turn first a bright amber color, then red and finally black. In the first two stages they are quite tart, but when black, are sweet. They can be pickled in any stage and make delicious jelly or currant tarts.

In the wild state it is found growing in light sandy soil, but under cultivation has done well in heavy soils and some plants in heavy black adobe, grew very rank and the second year bore a tremendous crop of fruit. In 4-inch pots. Each 35c; per doz., $2.50.

**CEREMONYER**
(Anona cherimol.)

This is one of the finest fruits ever grown and succeeds well in Southern California. The tree is very handsome, with broad, velvety green foliage, often deciduous during the winter months. It is best suited to a light sandy soil but can be grown on heavy soils providing the drainage is good. The tree is hardy enough to be grown wherever the orange thrives. The fruits, which ripen in spring, are 3 to 5 inches in diameter, heart-shaped, of a grayish brown color and produced in great abundance. The flesh is a white, melting, custard-like pulp of delicious flavor.

**DELICIOSA.** Fruit large, weighing up to 1½ pounds: ovoid, velvety flavor. Ripens in January. Budded trees. Each 4.00.

**CHOICE SEEDLINGS.** Grown from seed selected from the largest, free fruited trees. In gal. cans. Each 75c.

**WHITE SAPOTE**
(Casimiroa edulis.)

This tree was introduced into California by the early Mexican settlers and several old trees have been bearing here for many years. It forms a handsome spreading tree, with palmate, glossy green foliage and is extremely drought resistant. It is harder than most semi-tropical fruits, withstanding quite low temperatures and is found in Mexico at altitudes up to 7,000 feet. The fruit is about the size of a quince and similar in appearance, with thin skin and sweet pulp of a flavor unlike any other fruit. The trees usually come into bearing when 7 or 8 years old.

**SEEDLINGS.** Grown from seed saved from choice fruit. In gal. cans. Each $1.00.

**FEIJOA OR PINEAPPLE GUAVA**
(Feijoa sellowiana.)

Fruit delicious, mingling the flavor of the pineapple, raspberry and banana, and so aromatic that a few of them will impart a pleasing fragrance in a room. It is somewhat acid and has good cooking qualities. Size about that of an English walnut. Besides being valued for its fruit, it is an ornamental, graceful-leaved evergreen shrub and very beautiful when in flower. The blossoms have heavy, waxy petals, pure white beneath and shaded to a purplish crimson on the upper side, well meriting a place in the garden for its flowers alone.

**CHOICE SEEDLINGS.** Grown from seed selected from the largest free fruited plants. In gal. cans. Each 75c.

**EVERGREEN RASPBERRY**
(Rubus ellipticus.)

A giant evergreen raspberry from the Himalaya mountains. The plant grows from 12 to 15 feet high and is a true evergreen, standing 6 to 8 degrees of freezing without injury and is a handsome foliage plant. In spring it produces quantities of fine yellow berries that are delicious for home use but too soft for distant shipments. Strong pot grown plants. Each 50c.

**NATIAL PLUM**
(Carissa grandiflora.)

An interesting shrub from South Africa, worthy of a place in every garden, for ornamental purposes as well as its fruit. Forms a thick growing, thorny shrub a few feet high, with rich, dark green oval leaves. In spring and early summer it is covered with many white fragrant blossoms about an inch and a half in diameter. These are followed by bright scarlet fruits about the size of a plum, of a peculiar acid flavor, and make excellent jelly. The shrub is very hardy, and ornamental planted either as single specimens or as a hedge. In gallon cans. Each 75c.

**CAROB OR ST. JOHN’S BREAD**
(Ceratonia Siliqua.)

A very ornamental evergreen tree which thrives well in Southern California and requires very little water. The trees bear quantities of pods which are high in protein and sugar and make valuable food for stock. They are largely grown in the countries bordering on the Mediterranean sea, from which regions immense quantities are shipped to the United States and other countries and used in the making of loaves. The trees grow to a height of 40 feet, and mature trees of good budded varieties have been known to yield 900 to 1,000 pounds of pods.

**BOLSER.** An extra fine variety and good producer. Chemical analysis shows 52% sugar. Budded trees, boxed 2 to 3 feet. Each $4.50.

**SEEDLINGS.** In gal. cans, 2 to 3 feet. Each 75c.

**YELLOW STRAWBERRY GUAVA**
(Psidium lucidum.)

Similar to the red strawberry guava, except in the color of the fruit which is a bright yellow. Considered by some to be of finer flavor than the red variety. In gal. cans. Each 75c.
FRUIT TREES AND GRAPE VINES

ALMONDS

Price, each, 60c.

1. X. L. This variety is highly recommended by those who have grown it. It bears regularly and heavily. The nuts are large and shell easily, no machine being needed, nor is it necessary to bleach them. The tree is a sturdy upright grower.

RED PERSIAN. A rapid grower and heavy and regular bearer. The nuts are large, very long and soft shelled.

APPLIES

Price, each, 60c.

DELIUS. Large, rather conical in form; bright red, splashed lightly with yellow; flesh crisp, sweet and juicy. A good bearer. November.

WINTER BANANA. Large, of perfect form, golden yellow shaded with blush, flesh yellow, rich flavor. A strong grower and heavy bearer; three year old trees frequently bearing a heavy crop. September.

JONATHAN. Yellow and red, of medium size; flesh rich, tender and juicy. Very productive and a good winter variety. November to December.

RED ASTRACHAN. Large, deep crimson, rich acid flavor. July.

WHITE WINTER PEARMAIN. Of medium size, oblong, yellow, sprinkled with miniature brown spots; flesh crisp and juicy, with pleasant sub-acid flavor. A standard market sort. Succeeds well in all parts of the state. November to February.

WINESAP. Greenish yellow, striped with red and purple, of medium size; flesh firm, with rich high flavor. Excellent for the table. November to February.

YELLOW BELLFLOWER. Of large size, oblong, yellow; flesh crisp and juicy, sub-acid flavor. A standard variety in California and succeeds well in the interior. October to January.

YELLOW NEWTOWN PIPPIN. Golden yellow, large; flesh firm, crisp and juicy. One of the standard varieties in California, and very largely planted. January to March.

CRAB APPLES

HYLOP. Large, deep crimson. A very popular variety. September.

TRANSCENDENT. Large, yellow striped with red, of pleasant aromatic flavor. A vigorous grower and very productive, the best variety for general use. August.

APRICOTS

Price, each, 60c.

BLENHEIM. Large, oval, deep yellow, flesh sweet and juicy. Regular and heavy bearer, in great demand for canning and drying.

NEWCASTLE EARLY. Of medium size, round, ripens two to three weeks earlier than Royal. May.

ROYAL. Medium size, oval, dull yellow, fleshed with red. A standard variety. It is a favorite sort for canning and drying; succeeds well in all parts of the state and is more extensively planted than any other variety.

CHERRIES

Price, each, 75c.

RING. Large, dark purplish black. Flesh firm of delicious flavor. A good shipping variety.

BLACK TARTARIAN. Very large, purplish black; flesh juicy, rich and delicious. The best black cherry. June.

NAPOLEON. BIGARREAU. (Royal Ann.) Large, pale yellow, richly dotted with deep red and with a bright red cheek; flesh sweet and juicy. A good bearer.

FIGS

Price, each, 75c.

BLACK CALIFORNIA. (Mission.) Large dark purplish black; a good grower and bearer. The large black fig so common in California.

KADOTA. A white fig of medium size, rich flavor and one of the best for table use. It is very prolific and the trees bear when quite young.

WHITE ADRIATIC. Large, skin greenish yellow, pulp red. Extenstively planted for drying purposes.

GRAPE

Price, each, 60c.

BLACK HAMBURG. Very large bunches; fruits round and large; flesh sweet and juicy. A fine table grape.

BLACK MOROCCO. Bunches of medium size; fruits oval, very large, dark red, turning black when fully ripe; flesh sweet and juicy; ripens late and keeps well. A good shipper.

CONCORD. Bunches large and compact; fruits large round and sweet.

CORNICHON, BLACK. Long, loose bunches; fruits oval, tapering at both ends; flesh firm and of fine flavor; ripens late and is a splendid sort for shipping.

FLAME TOKAY. Bunches very large; fruits large, pale red covered with bloom; flesh firm and sweet. An old and popular sort; largely planted for table grapes.

EMPEROR. Bunches very large; fruits large, oblong, deep rose colored. One of the best late varieties for the market. A strong grower and heavy bearer.

MALAGA. Very large bunches, often weighing 10 pounds; fruits very large, oval, yellowish green. A good shipping variety, commanding a high price in the eastern markets. The vine is a strong grower and very productive.

MUSCAT OF ALEXANDRIA. Bunches long and loose shouldered; fruits oval, yellowish green, rich flavored. Very largely grown for raisins.

ROSE OF PERU. Large bunches; fruits large and round, flesh firm. A good market variety. Vine a strong grower.

THOMPSON'S SEEDLESS. Bunches very large; fruits greenish yellow, oval, firm and seedless. A rapid grower and enormous bearer.

LEMONS

Price, each, 75c.

EUREKA. Medium size; a good keeper; the best for general use. Each, $2.50.

LOQUATS

Price, each, 75c.

CHOICE SEEDLINGS. Grown from seed saved from choice large fruited varieties. In gal. cans. Each 75c.

NECTARINES

Price, each, 1.50.

PETON. Of medium size, yellow with red cheek; flesh yellow and of good flavor. August.

STANWICK. Large, pale greenish white, shaded with rich violet; flesh white, rich and juicy.

OLIVES

Price, each, 1.50.

MANZANILLO. Large, purplish black, with light colored specks. One of the best commercial varieties, both for pickling and oil.

MISSION. Medium size; desirable for pickling, either green or ripe; also a good variety for oil. An old standard variety introduced by the Spanish padres and now grown here probably more than any other sort.

ORANGES

Price, each, 75c.

MEDISERRANEEAN SWEET. Medium size, ripens late. Tree thornless and a good bearer. Each $3.50.

TANGERINE. (Dancy's.) Medium size; very sweet; rind thin and separates easily. Each $3.00.

VALLNCIA LAHE. Large, oblong; ripens very late. Each, $2.50.

WASHINGTON NAVAL. The standard variety in California. Fruit large, luscious and seedless; a good bearer and shipper. Each, $2.50.

PEACHES

Price, each, 60c.

BRIGGS' RED MAY. Medium size; greenish white with red cheek; flesh greenish white, melting and very juicy. A popular early variety. Middle of June.

EARLY CRAWFORD. Large, oblong; skin yellow, with red cheek; flesh yellow and sweet. Middle of July.
PEARS

Price, each 75c.

BARTLETT. Large, clear, lemon-yellow with soft blush; flesh white, juicy and rich. The most popular pear. Each 60c.

SECKEL. Small, brownish green with russet-brown cheek. For rich flavor it has no equal. Each 50c.

MarSH'S BURBANK. Very large, yellow, with dark red cheek; flesh deep yellow, rich, and sweet. Late August. Each 80c.

LAKE CRAWFORD. Very large, yellow, with dark red cheek; flesh deep yellow, rich flavor. A popular variety for home use. Each 60c.

PERSIMMONS

Price, each 75c.

HACHIYA. Large, conical, bright red. Flesh yellow, of highest flavor. Each 60c.

TANE NASHI. Very large; light yellow, changing to red, flesh deep yellow, rich, and matured; flesh yellow, seedless, very fine quality. Each $1.00.

POMELO OR GRAPE FRUIT

MARSH'S SEEDLESS. Medium size, practically seedless; thin, smooth skin; fine flavor. Each $2.50.

POMEGRANATES

Price, each 60c.

APEX POMELLO. A cross between Apricot and Plum. Large, globular fruit, rich flavor. June.

BURBANK. Large, red with lilac bloom; flesh deep yellow, rich, and juicy. Color and flavor are better the latter part of July.

GREEN GAGE. Medium size, round yellowish green, rich flavor. An old and favorite variety. Each 50c.

KELSEY JAPAN. Very large; green, changing to rich yellow, shaded with reddish purple when ripe and covered with bloom; flesh yellow, firm and sweet; a good bearer. July to October.

SANTA ROSA. Large, oval, purplish crimson with light blue bloom. Flesh pale amber near the stone, shading to deep, purplish crimson near the skin. Regular bearer; valuable for both shipping and home use. For beauty and quality of fruit it is unsurpassed. Early July.

SATSUMA. Doz. Large, globular, dark red with thin lilac bloom; flesh dark red, firm and juicy, and sweet. August.

WICKSON. Very large, deep cherry red, changing to rich claret color; flesh amber, rich and juicy. This variety was originated by Mr. Luther Burbank and is a cross between Satsuma and Kelsey Japan, and is considered by him one of the best of the Japan plums.

PRUNES

Price, each 60c.

FRENCH PRUNE. Medium size, violet purple; rich and sugary. A standard variety for drying. Summer.

GAGE. Large, dark purple, with white bloom, flesh yellow and sugary. Late July.

QUINCE

PINEAPPLE. Large flavor has a suggestion of pineapple; a good bearer. Each, $75c.

WALNUT

EUKEKA. Nuts large, soft shelled, of fine quality. Blooms late and is especially desirable for cold sections. Grafted on California Black root, 4 to 6 ft., each, $1.50; 6 to 8 ft., each, $2.00.

PLACENTIA PERFECTION. The standard variety in Southern California. Best suited to the open field and has great value. Trees grafted on California Black Walnut root, 4 to 6 feet, each, $1.50; 6 to 8 feet, each, $2.00.

SMALL FRUITS

BLACKBERRIES

CORY'S MAMMOTH THORNLESS. A vigorous grower, often making a good crop in one season. The berries are very large, with few seeds, and of delicious flavor. By many considered to be the best blackberry ever introduced. Very popular. Each 60c; per doz. $2.00.

CRANDELL'S EARLY. Large, firm; rich flavor; very early; bears through the entire blackberry season. Each 60c; per doz. $1.50.

MAMMOTH. A cross between the Wild Blackberry of California and Crandell's Early. The canes are very large and of vigorous growth, often growing 20 feet in one season. It bears very early and is exceedingly productive. The flavor is often 2½ inches long, and of delicious flavor. Each 60c; per doz. $2.00.

HIMALAYA GIANT. Introduced some years ago from the Himalaya mountains. It is of remarkably rapid growth, the canes sometimes reaching 40 feet in one season. The plants grow over a trellis and carefully pruned during the winter. It is a heavy bearer and the berries are large with few seeds and stand shipping well. Each 60c; per doz. $2.00.

CURRANTS

Price, each 35c; per doz. $2.50.

RED PROLIFIC. Large, deep red; a standard sort. Each 35c; per doz. $2.50.

WHITE GRAPE. Large, yellowish white; the best of the white varieties. Each 35c; per doz. $2.50.

DEWBERIES

GARDENA. Large, glossy black; rich flavor, good bearer. Each 60c; per doz. $1.50.

GOOSEBERRIES

Price, each 35c; per doz. $2.50.

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