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GENERAL CATALOGUE

FRUIT
AND
ORNAMENTAL
TREES

SHRUBS, VINES
ROSES, PLANTS



Spray Calendar and Formulas

MANEY & SAYRE Inc.
GROWERS OF
GUARANTEED NURSERY STOCK
GENEVA, N. Y.

B. C. Lake

FEB 1 1915

Illustrated Descriptive Catalogue of

ORNAMENTAL TREES



FRUIT, SHRUBS and PLANTS

Together with Valuable Hints on the Selection, Propagation and Care
of Stock and Spray Calendar and Formulas.

INTRODUCTION.

We take pleasure in presenting this carefully revised edition of our Descriptive Catalogue. It has been improved by the addition of new and promising sorts and by the omission of those which experience has proved to be unworthy for general cultivation.

For first-class nursery stock, there are three essentials: First, honest labelling; second, health, vigor, and maturity; and third, careful packing and shipping. We give special attention to the propagation of varieties that will come true to name, endeavoring to protect ourselves and our customers from error and imposition. We feel safe, therefore, in offering our stock as being what it is represented to be. All packing and shipping is given personal supervision and, still further to protect our patrons against loss, only skilled and competent men are employed.

Our lands are well adapted to the growing of the varieties handled by us and this fact together with thorough cultivation and care makes for health, vigor, and maturity in all that we grow.

Before setting out any nursery stock careful reading of pages 45 to 47 of this catalogue will be of benefit. It is well to understand that nursery stock is perishable and demands careful attention after being received from the nursery. Persons who handle nursery stock intelligently seldom have any cause for complaint. We request you to read the directions on "Transplanting Trees and Shrubs."



FRUIT DEPARTMENT.

APPLES.

Our list embraces a most careful selection of the best sorts for the several seasons, and few, if any, are omitted, that have proved worthy of general culture.

SUMMER APPLES

Astrachan Red—Large, deep crimson, juicy; rich, acid; August.

Benoni—Medium, deep red; tender, sub-acid flavor. August.

Caroline Red June—Medium; deep red; flesh tender, juicy, sub-acid flavor. Tree vigorous, upright, an early and abundant bearer. August.

Early Harvest—Medium size, straw color; tender, sub-acid. August.

Early Strawberry—Medium; roundish; finely striped and stained with deep red; flesh white, slightly tinged with red next the skin, tender, sub-acid, with an agreeable aroma. Tree a moderate, erect grower, and a good bearer. Middle to end of August.

Golden Sweet—Large; pale yellow; very sweet and good. August.

Sweet Bough—Large; pale yellow tender and sweet. August.

Tetofsky—A small Russian apple, medium size, yellow striped with crimson, sprightly acid. Suitable for culinary use. Tree hardy, upright, and early bearer. Late July to early September.

Yellow Transparent—Very early; color, pale yellow. July and August.

AUTUMN VARIETIES

Alexander—Large, uniform; mild sub-acid. Tree upright, vigorous. Sept.

Duchess of Oldenburg—Medium size; yellow, streaked with red; juicy, with rich, sub-acid flavor. September.

Fall Pippin—Large, yellow; tender, juicy and rich. October.

Fameuse—(Snow Apple)—Medium deep crimson. Very handsome; flesh snowy white, tender, melting, juicy. November.

Fanny—An attractive red apple of desert quality. Tree vigorous and rather early bearer; reliable annual cropper. Fruit beautiful and mild sub-acid flavor. September to November.

Golden Pippin—An apple of large size and coarse grained; flavor very pleasant. It is a reliable cropper and good for commercial purposes but is passing out of general use.

Gravenstein—Large, striped; tender, juicy and high flavored. September.

Maiden's Blush—Medium size; pale yellow, with beautiful red cheek. September and October.

McIntosh Red—Medium size; nearly covered with dark red; flesh white, fine, very tender, juicy. December.

Red Bietigheimer—Free growth; one of the largest and handsomest apples; purplish crimson; firm; pleasant, sub-acid; good; hardy. Ripening September.



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Twenty Ounce (Cayuga Red Streak)—Very large; nearly round; yellow, striped with red; of fair quality; tree a vigorous, spreading grower, and a fine bearer. Excellent for baking. Very popular in the markets. October to January.

Wealthy—Medium; yellow, mostly covered with dark red; flesh white, sub-acid, one of the best. November.

WINTER

Baldwin—Large, bright red; juicy, crisp, sub-acid. One of the most popular winter apples. January to April.

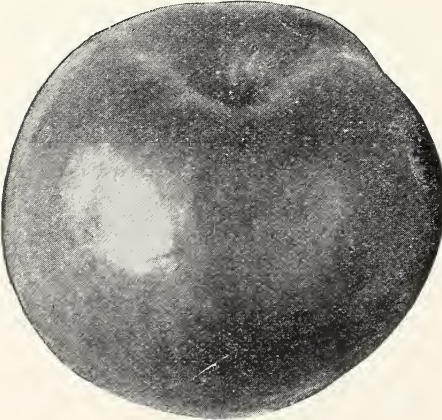
Ben Davis—A leading commercial variety. Tree hardy, healthy, vigorous. Fruit large, handsomely colored, attractive. At its best in Virginia, Kentucky, Tennessee, Illinois, Missouri, Arkansas and portions of adjoining states. January to June.

Black Ben Davis—Brilliant in color, attractive in appearance, deep red. Good keeper. Tree vigorous. January to April.

Fallawater—Very large, globular; yellowish green, dull red cheek; juicy, crisp, pleasant sub-acid flavor. December.

Gano—A variety of the Ben Davis type. Fruit medium to large, light yellow in color and of good flesh and flavor. Season about the same as Ben Davis.

Golden Russet—Vigorous growth; medium; russet; crisp, juicy, mild sub-acid; hardy; very good; long keeper. Ripening November to April.



TWENTY OUNCE (reduced)

Grimes' Golden—Medium to large; cylindrical; golden yellow, sprinkled with gray dots; flesh crisp, tender, juicy, sprightly; very good to best. Tree hardy, vigorous, productive, bears early. January to April.

Hubbardston Nonsuch—Large, striped yellow and red; tender, juicy. An excellent variety for commercial planting, being one of the most profitable of the varieties of its season. October.



GANO (reduced)

Jonathan—Medium growth. Red and yellow; tender, juicy, and rich. Very productive. One of the best for table or market.

King (Tompkins County)—Largest size; oblate, yellowish ground striped and covered with bright red; fragrant, spicy smelling; flesh very crisp, tender, rich, fine flavor, sub-acid; vigorous, productive in certain localities; hardy. A superb apple. November to April.

Mann—Vigorous growth; medium to large; deep yellow; juicy, mild, pleasant, sub-acid; hardy. Ripening January to April.

McIntosh Red—Vigorous growth; handsome; very good; hardy. Ripening November to February.

Newton Pippin (Albemarle)—Medium to large, yellow; very firm, crisp, juicy, with a highly delicious sub-acid flavor. A very late keeper. November to June.

Northern Spy—Vigorous growth; large; striped red; tender, juicy, mild, sub-acid; very good; a fine dessert fruit. Ripening December to June.

Northwestern Greening—An attractive apple of green or yellowish color. Popular in the northern portion of the apple belt where hardy apple is desired. Tree vigorous. Fruit large to very large with mild sub-acid flavor.

Opalescent—An annual bearer of beautiful, high quality fruit. Size large; color light, shading to a very dark crimson, and susceptible to a very high polish; hence, its name. Ripening December to March.



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Peck's Pleasant—Large; pale yellow; very tender and rich.

Pewaukee—Vigorous growth; large; bright yellow with red; tender, juicy, sub-acid; good; very hardy. Ripening January to May.

Rambo—A fine flavored apple for home orchards. Does not keep well for commercial purposes. Fruit medium size.

Rhode Island Greening—Large greenish yellow; tender, juicy and rich, with rather an acid flavor. December to April.

Rome Beauty—Large; yellow and bright red; flesh yellowish, tender, juicy, sub-acid; tree moderate grower, good bearer. December to March.

Roxbury Russet—(Boston Russet)—Rather large; greenish-yellow, mostly covered with bright russet; a pleasant sub-acid flavor. January to June.

Seek-no-Further (Westfield)—Above medium; dull red, dotted with russet; flesh white, fine grained; rich flavor, excellent. December to February.

Senator (Oliver)—Fruit medium to large, roundish; bright red on a greenish yellow ground; distinctly dotted. Flesh yellowish white, juicy, rich, pleasant, sub-acid, with an intense apple flavor. Small core. Tree a vigorous, symmetrical grower; an early and heavy bearer. Season mid-winter.

Smith's Cider—Medium, yellow, striped red, tender, sub-acid. November to March.

Spitzenburg (Esopus)—Medium to large; deep red; flesh yellow, crisp, sub-acid, with a spicy and delicious flavor; tree rather slow grower, requires top working, high culture and good care, under which it forms a large spreading tree, a good bearer and deservedly a most popular variety. December to April.

Stark—Tree is thrifty, hardy, healthy, a reliable cropper and very productive. Fruit large and of a beautiful color and good flavor. Specially desirable in North, South and West outside the range of the Baldwin.

Stayman's Winesap—Large, bright red, striped; excellent quality. Flesh firm, tender, rich, juicy, mild sub-acid. A strong grower and heavy bearer. Superior to old Winesap. Succeeds in a great variety of soils. February to April.

Sutton Beauty—Medium to large, roundish; handsome, waxen yellow, shaded mottled, and obscurely striped with fine crimson; flesh white, crisp, tender, juicy, sprightly sub-acid; quality fine; late keeper; tree a vigorous grower and productive. One of the most valuable market varieties. November to February.

Talman Sweet—Medium size; pale yellow, slightly tinged with red; firm, rich and sweet; excellent for cooking; tree vigorous, very hardy and productive. November to April.

Wagener—Medium to large; light yellow covered with deep red in the sun; firm, crisp, juicy, sub-acid; tree vigorous, upright, handsome, very productive. December to May.

Walbridge—Medium size; handsome, pale yellow, striped with red; crisp, tender, juicy, a late keeper; tree very vigorous, extremely hardy, one of the Ironclads. January to May.

Willow—A southern variety cultivated in central portion of Mississippi. Tree a strong grower and rather early and regular bearer. Quality of fruit fair.

Winter Banana—New, excellent. The name is most appropriate, as it has a delightful banana perfume. Fruit keeps well till spring; the color is a striking red blush on a deep yellow ground. It is of large size and very showy in appearance, roundish, inclining to conical, stalks three-fourths of an inch long, cavity moderate, apex shallow. Originated in Indiana.

Wealthy—Free growth; medium; dark red; juicy, vinous, sub-acid; good; very hardy. Ripening December to February.

Winesap—Moderate growth; large; deep red; firm, crisp; good. Ripening December to May.

Wolf River—A variety that has largely superseded Alexander in many localities. Tree a strong spreading grower, not an early bearer, productive in alternate years. Fruit is large, highly colored and of fine flavor. September to December.

York Imperial—Medium; white shaded with crimson; flesh firm, crisp, juicy, pleasant, mild, sub-acid; tree vigorous, a good bearer. A popular Pennsylvania variety. November to February.

CRAB APPLES

Excelsior—Tree a strong grower, hardy and healthy. Fruit large for a crab apple and very attractive; flavor agreeable.

Hyslop—Almost as large as Early Strawberry Apple; deep crimson; very popular on account of its large size; beauty and hardness. Vigorous. October to January.

Martha—A new variety; a seedling of the Duchess of Oldenburg. Resembles the Transcendent, but larger; beautiful showy fruit and bears enormously. All things considered, we doubt if it has an equal among the crabs. Vigorous. September and October



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SHROPSHIRE DAMSON PLUM

Transcendent—Skin yellow, striped with red; flesh crisp and juicy. An early and heavy bearer. One of the best known varieties. Vigorous. Sept. and Oct.

Whitney—Large, glossy green, striped, splashed with carmine; flesh firm, juicy and flavor very pleasant; ripe latter part of August. Tree a great bearer and very hardy; a vigorous grower, with a dark green, glossy foliage. Vigorous. August.

PLUMS

Abundance (Botan)—The tree is a rapid grower, healthy in limb and foliage, comes



BURBANK PLUM

into bearing remarkably young, and yields abundantly. The fruit is full medium size, color a rich, bright cherry red; flesh light yellow, juicy and tender. Vigorous. Last of July.

Bradshaw—Large, early, purple, good quality. August.

Burbank—A valuable Japanese plum, of deeper color and ripening later in the season than the Abundance. The fruit is large, nearly globular, clear cherry red with a thin lilac bloom; flesh a deep yellow, very sweet, with a peculiar and very agreeable flavor. The tree is a vigorous grower, with large and broad leaves; usually begins to bear second year after transplanting. August.

Coe's Golden Drop—Large, sweet. September.

Chabot or Yellow Japan—Very large; pointed, tapering gradually from a heart-shaped base; color bright red purple, on a yellow ground; very showy. Tree a good grower, blooms two weeks later than Abundance, thus escaping the spring frosts, and a most abundant bearer. Ripens a little later than Burbank. One of the best Japans.

Damson—Hardy, and an annual bearer; fruit medium; dark copper color, with a rich bloom. Moderate. October.

German Prune—Purple, juicy, rich, fine. September.

Guii—Very large, deep purple, flesh yellowish, sweet; early and prolific bearer; hardy. September.

Imperial Gage—Fruit large, oval, skin pale green, flesh juicy, sweet, rich and excellent. Vigorous. Middle of August.

Lombard (Bleecker's Scarlet)—Medium roundish oval; violet red; juicy, pleasant and good; adheres to the stone; productive. A valuable market variety; one of



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the most hardy and popular. Nearly always produces a crop. Not liable to rot. Vigorous. Middle of August.

Moore's Arctic—Medium, dark purple, thin skin; fine flavor; a great bearer, extremely hardy. September.

October Purple—Reddish purple color. Flesh yellow and superb in quality. Ripens about middle of September.

Red June—An early ripening Japanese plum; medium to large, roundish, conical, purplish red, handsome; flesh yellow, quality good.

Reine Claude—Large, nearly round; pale yellow, marked with red; juicy, melting and excellent; good bearer. Not liable to rot. First of September.

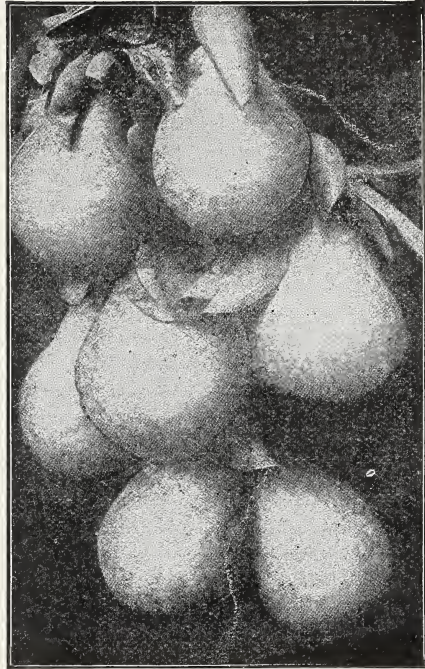
Satsuma—A fine, large Japanese plum. The flesh is solid, purplish crimson color from pit to skin, juicy, fine quality. Pit very small, little larger than a cherry tone. Vigorous. September.

Shipper's Pride—Very large, dark purple, juicy, sweet, fine quality. Hardy and productive. September.

Shropshire Damson—A medium sized, dark purple variety; esteemed for preserving. Very productive. October.

Wickson—A Japanese Plum. The Tree grows in vase form, sturdy and upright. The stone is small and the flesh is of fine texture, firm, sugary and delicious. Ripens about September 1st.

Yellow Gage—Large, yellow; juicy and rich. Productive and vigorous. August



LAWRENCE PEARS

PEARS SUMMER VARIETIES

Bartlett—Large size; buttery, very juicy and high flavored; very popular. September.

Clapp's Favorite—Large size; flesh fine grained, juicy, melting, rich and buttery; earlier than Bartlett. August.

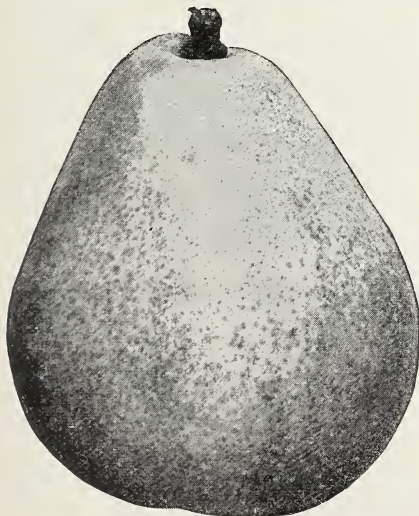
Flemish Beauty—Large, juicy, melting, rich and fine; good bearer; hardy everywhere. Vigorous. September and October.

Koonce—Medium to large, handsome; yellow; flesh juicy, sweet, spicy, good. Ripens with the earliest. Tree a strong grower, hardy, and productive. August.

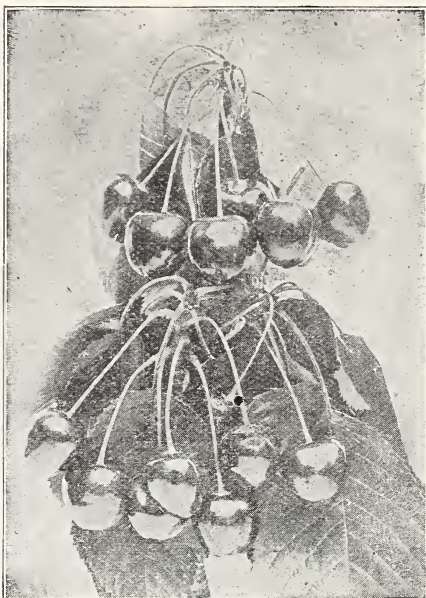
Manning's Elizabeth—Small to medium; bears in clusters; crimson and gold; rich, sugary, sprightly; productive. One of the best early pears. Vigorous. August.

Tyson—Above medium size; melting, juicy, sweet. One of the best summer varieties. August.

Wilder—Small to medium; yellow, with red cheek; handsome; sweet, delicious. August.



ANJOU PEAR



EARLY RICHMOND

AUTUMN AND WINTER

Anjou—A large, handsome pear; but-
ter and melting, with sprightly, vinous
flavor. Keeps until the winter holidays.
Considered the best pear.

Bosc—A large and beautiful russety
pear; very distinct, with a long neck;
high flavored and delicious. September
and October.

Clairgeau—Very large, tender and juicy;
abundant bearer. Valuable market fruit.

Duchess d'Angouleme—Very large; of
a greenish yellow, with patches of yellow
and a dull red cheek. It attains its great-
est perfection on the Quince root. October
and November.

Garber—One of the Japan Hybrids;
earlier and larger than Kieffer; hardy,
productive, early bearer. September and
October.

Howell—Large, light, waxen yellow,
with fine red cheek; handsome, rich,
sweet, melting, perfumed aromatic flavor.
An early and profuse bearer. Very hardy
and valuable. Vigorous. September and
October.

Kieffer—Very large, bell shaped; light
yellow, when fully ripe, sometimes with a
slight blush; flesh white, crisp, juicy, of
slightly quince flavor; of fair quality;
exceedingly valuable for cooking or cann-

ing, which brings out its best spicy flavor;
never rots at the core. Unsatisfactory
in many sections and not recommended
as against other varieties. October to
December.

Louise Bonne de Jersey—Large size;
very juicy and melting with a rich and
excellent flavor; succeeding better on the
Quince than on the Pear root. September
and October.

Lawrence—Above medium size, yellow,
tender and melting, quality best. Mid-
winter.

Rutter—Originated in Pennsylvania;
quality fine; flavor high, sugary, juicy
and vinous, size large; ripens in November.

Sheldon—Large size; roundish; green-
ish yellow, mostly covered with thin,
light russet; very juicy, melting, sweet
and vinous. October and November.

Seckel—Small size; yellowish russet,
with a red cheek. The richest and finest
variety known. September and Octo-
ber.

Worden Seckel—A seedling of Seckel.
Fruit medium size, borne in clusters,
juicy, buttery, fine-grained, with a flavor
and aroma fully equal to that of its parent,
which it surpasses in size, beauty, and
keeping qualities. Ripens in October,
but will keep in good condition till Decem-
ber.

Winter Nellis—Medium size; greenish
yellow, spotted with russet; melting and
buttery with rich sprightly flavor. De-
cember and January.

CHERRIES

HEART AND BIGARREAU

Black Tartarian—Very large, bright pur-
plish black; half tender, juicy, very rich,
excellent flavor; productive. Free. First
to middle of July.

Gov. Wood—One of the best cherries;
very large; light yellow marbled with red;
juicy, rich and delicious. Tree healthy
and a great bearer. Hangs well on the
tree. Vigorous. Last of June.

Napoleon Bigarreau—Very large, pale
yellow or red; very firm, juicy and sweet;
very productive; one of the best. Vigor-
ous. First of July.

Windsor—Fruit large; liver colored,
resembling the Elkhorn, ripening a few
days after that variety; flesh remarkably
firm, of fine quality. Tree hardy and
prolific. Vigorous. Middle of July.

Yellow Spanish—Large, pale yellow,
with red cheek; firm, juicy and excellent;
one of the best light colored cherries;
productive. Free. Last of June.



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DUKE AND MORELLO

Early Richmond—Medium size; dark red; melting, juicy, sprightly, acid flavor. This is one of the most valuable and popular of the acid cherries, is unsurpassed for cooking purposes, and is exceedingly productive. Free. June.

English Morello—Medium to large; blackish red; rich, acid, juicy and good; very productive. Moderate. August.

May Duke—Large, dark red, juicy and rich; an old, excellent variety; productive. Free. Middle of June.

Montmorency—A large red, acid cherry, larger than early Richmond and fully ten days later. Very profitable. Early Richmond hangs in clusters and is more liable to rot. Free. Last of June.

PEACHES

Admiral Dewey—A perfect freestone, of fine size, form and color, with delicious yellow flesh that is yet firm enough to ship well. The tree is a strong, hardy, symmetrical grower and produces well. The very best yellow freestone. July.

Alexander—Ripens very early. Large; color deep maroon, handsomely shaded; flesh firm, rich and good; most excellent shipper; freestone. Middle to last of July.

Carman—A new, hardy, rot-proof peach. Large, round; pale yellow skin and red



ELBERTA

blush on sunny side; white flesh, sweet flavor.

Chair's Choice—Large, deep yellow, red cheek; firm. October 1st.

Champion—New. Handsome creamy white with red cheek. It is of large size and of very superior flavor. Ripens about August 1, and has shown that it bears a full crop when others fail. Considered a great improvement over other white sorts.

Crawford's Early—This very beautiful and best of yellow peaches is highly esteemed for market purposes. Fruit very large, oblong; skin yellow, with a fine red cheek; flesh yellow, juicy, sweet and excellent. Wonderfully productive and hardy. Freestone. Last of August.

Crawford's Late—Fruit of the largest size; skin yellow, or greenish yellow, with dull red cheek; flesh yellow; productive. One of the finest late sorts. Freestone. Last of September.

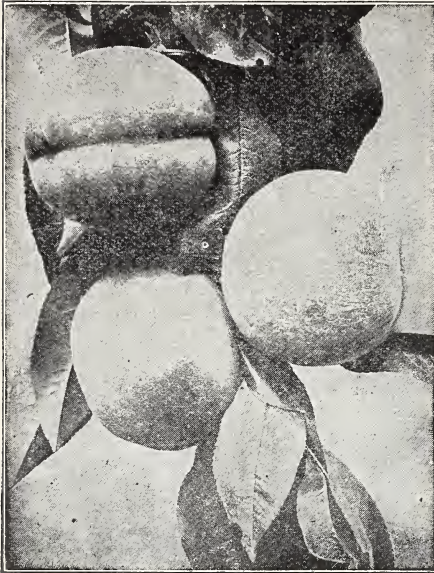
Crosby—A beautiful yellow freestone peach with very small pit. Excellent flavor, large size, color orange-yellow, with carmine on the sunny side. Very beautiful; tree willowy growth, like Wager; rather dwarf; ripens between early and late Crawford.



BLACK TARTARIAN



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OLD MIXON

Elberta—A seedling of Chinese Cling but entirely free. Large; yellow with red cheek, juicy and of high quality; flesh yellow and melting. A very valuable sort. Ripens after Early Crawford. Freestone.

Fitzgerald—A native seedling, as large or larger than Crawford; freestone, very best quality. A heavy bearer, fruiting very young, almost invariably the second year after planting. Very hardy. Ripens just after Crawford's Early.

Foster—Large, resembling Crawford's Early, but of better quality. Ripening early September.

Heath Cling—Very large, creamy white, faintly blushed. Of splendid quality, a good keeper. One of the best peaches for preserving and canning. October.

Kalamazoo—Large, yellow, fine quality. Extra productive and profitable. September.

Lemon Free—Very large, oblong, yellow, fine quality and immensely productive. Late September.

Mountain Rose—Very hardy, large, red, flesh white, juicy, rich and excellent; free. August.

Oldmixon—Large, pale yellow, with red cheek; tender, rich and good. September.

Stevens' Rareripe—Very productive and of high color; ripens immediately after Late Crawford, and continues three weeks.

Stump the World—Very large, roundish; skin white, with a bright red cheek;

flesh white, juicy and good. Freestone. Last of September.

Triumph—New. A strong grower and a sure and abundant bearer. Fruit a freestone and of large size, and bright yellow color. Ripens early and young trees have borne over a half bushel of fruit each.

Wheatland—Large; golden yellow, with crimson; juicy, sweet and of fine quality. Ripening middle of September.

Yellow St. John—A superfine early yellow freestone, nearly as large as Crawford, as finely colored and of even better flavor. Its round, showy fruit always attract attention and sell well. A fine dessert peach. The tree bears while still small, and abundantly afterward. August.

APRICOTS

AMERICAN VARIETIES

Acme—A free and vigorous grower, exceedingly hardy and productive. Fruit of large size, yellow, with red cheek, good quality; freestone. August.

Harris—Free; hardy; comes into bearing young, and very productive. Fruit large, rich golden yellow; ripens middle of July.

Moorpark—One of the largest; orange, with a red cheek; firm, juicy, with a rich flavor; very productive. August.

RUSSIAN VARIETIES

Alexander—Tree hardy; an immense bearer; fruit large, yellow, flecked with red; very beautiful, sweet and delicious. July.

Gibb—Tree hardy and symmetrical; a good bearer; fruit medium, yellow; subacid, rich, juicy, the best early variety, ripening about with strawberries; last of June.

J. L. Budd—A hardy, strong grower and profuse bearer; large, white with red cheek; sweet, juicy, extra fine, with a sweet kernel as fine flavored as the almond; the best late variety. August.

QUINCES

Bourgeat—Rich golden color; smooth skin, with delicious quince odor.

Missouri Mammoth—Rich and aromatic, one of the largest and handsomest. Bears young and prolifically.

Orange (Apple)—Fruit large, round, with a short neck; color bright yellow; flesh firm and tough until cooked, when it becomes tender, juicy, and of excellent flavor.

Rea's—The largest and in every respect the finest variety of the quince.

Van Deman—A strong grower, the hardiest, surest and youngest bearer. Fruit golden, big, fine flavored. Tree productive.



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NECTARINES.

The Nectarine requires the same culture and management as the peach, from which it differs only in having smooth skin like the plum. It is peculiarly liable to the attacks of the curculio. We handle a few of the standard varieties.

GRAPES.

BLACK GRAPES.

Campbell's Early—Clusters large and handsome; berries large, nearly round, black, with light purple bloom; flesh rather firm, but tender; quality rich, sweet, slightly vinous; a strong and vigorous grower; it ripens very early.

Concord—A popular variety; universally healthy, vigorous and productive; flesh somewhat buttery, moderately juicy and sweet. Bunch large, nearly black with bloom; early. September.

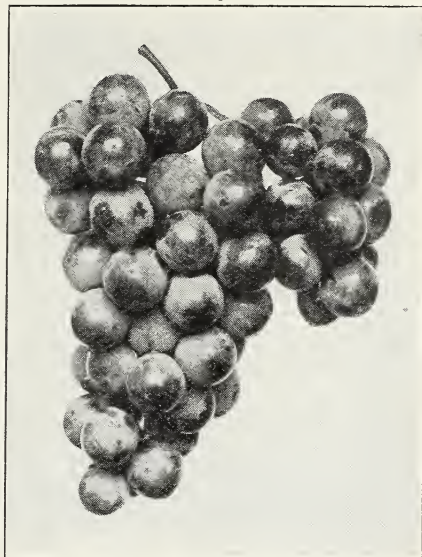
McPike—A black grape said to be a seedling of the Worden, and to produce berries of great size. First to middle of September.



MOORE'S EARLY.

Moore's Early—Combining the vigor, health and productiveness of Concord. In quality hardly to be distinguished from it. Bunch large, berries very large, black. August.

Wilder—Large; bunches generally shouldered; berry round and large; flesh buttery, with a somewhat fibrous center; sweet, rather sprightly, black. Middle of September.



WILDER GRAPE

Worden—Bunches large, handsome, double shouldered; berries large, sweet, lively. Being ten days earlier than Concord, it ripens well in cold localities; vine very thrifty and vigorous, perfectly hardy and a good bearer. Black. Middle of September.

RED GRAPES.

Brighton—A superior family grape. Delicate skin, tender, almost seedless pulp, sugary, juicy and rich flavor. It ripens a week before the Concord.

Delaware—Bunches small, berries small; skin thin, light red; flesh very juicy, with a sweet and delicious flavor. Ripens early.

Salem—(Roger's No. 53)—Bunch large and compact; berry large, of a light chestnut color, thick skinned; very sweet and sprightly.

Vergennes—Color light amber; flavor rich and delicious. Ripens with Concord.

WHITE GRAPES.

Diamond (Moore's Diamond)—Berry about the size of Concord; flesh melting and juicy, sweet to the center. Ripens with Concord.



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Green Mountain (Winchell)—Bunch long, compact. Color green or greenish white; skin thin; pulp exceedingly tender and sweet. Three weeks earlier than Concord.

Niagara—Bunches very large and uniform and very compact; berries larger than Concord; quality good; ripens before Concord.

Pocklington—Good quality; ripens at the time of the Concord.

Cuthbert—Berries large, conical; rich crimson; very handsome, and so firm that they can be shipped without injury. Hardy.

Golden Queen—Fruit large; color a pure yellow; quality best. Ripens with Cuthbert.

London—Large fruit, dark crimson, good quality.

Thompson Red—The best early red. Hardy, vigorous, productive.

SMALL FRUITS.

STRAWBERRIES.

Those marked (P) have pistillate or imperfect flowers, and must be planted near perfect-flowering kinds, in order that the flowers may be fertilized. The varieties not so marked are bi-sexual or perfect flowering, and can be planted alone.

Bubach (P)—Large and handsome; conical, bright scarlet, fair quality. Season early to medium.

Climax—Enormously productive, of good size, finely flavored, perfectly formed berries, ripening extremely early.

Gandy—The popular, late market berry, always commanding fancy prices.

Glen Mary—A fine, large, late berry of excellent quality.

Haverland (P)—Large, long, bright red; a great yielder.

Sample—In productiveness it is perhaps surpassed by none. The fruit is very large. Of fine quality but not the best.

Senator Dunlap—Very productive. Large, bright, or slightly dark red. Quality the very best.

Steven's Late Champion—Large, light red berries, pointed globular; regular and perfect in form; very firm and of extra high quality. An ideal plant to produce large berries and yield an enormous quantity of them. Season late.

Wm. Belt—Very large, conical; color bright red; quality very good. Season medium to late.

RASPBERRIES.

RED AND YELLOW VARIETIES.

Columbian—One of the most vigorous growers of the red raspberry family. Fruit very large; shape conical, color dark red, bordering on purple. Wonderfully prolific and perfectly hardy.

BLACK CAPS.

Cumberland—Fruit enormous; quality unsurpassed.

Gregg—Of great size; fine quality.

Kansas—Jet black, firm and delicious; of great size.



LAWTON BLACKBERRY.

BLACKBERRIES

Eldorado—A valuable variety; fruit medium size, jet black, melting, sweet and rich; plant hardy and very productive.

Kittatinny—Is ripe as soon as black, and much earlier, sweeter and better in all respects than the Lawton which it resembles in plant and fruit.



OF NURSERY STOCK



Lawton—Fruit very large and black; and of excellent quality; an abundant bearer.

Rathbun—Fruit very large, with small seeds, no hard core. Sweet, luscious, high flavor; color jet black; firm. Plant strong, erect. Roots as the tips like the blackcap; hardy and prolific.

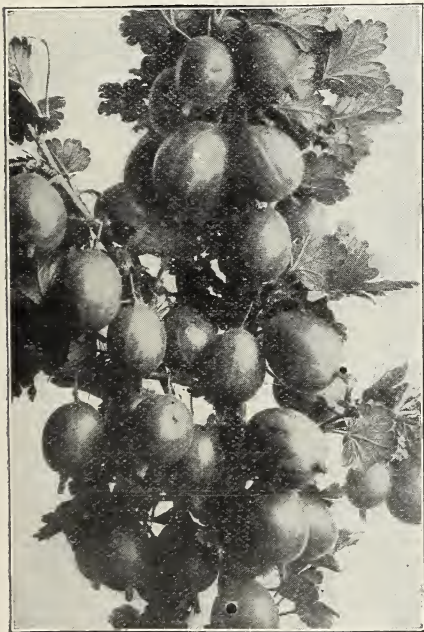
Snyder—Extremely hardy, enormously productive, medium size, no hard, sour core.

DEWBERRY.

Austin—Very early, of good quality. Best for north and northwest.

Premo—Jet black, firm and good. One of the hardiest. Should be planted with *Lucretia*, as bloom is imperfect and needs a pollinizer.

Lucretia—The best and most dependable dewberry. Large, jet black, highly flavored and hardy. A profitable market sort.



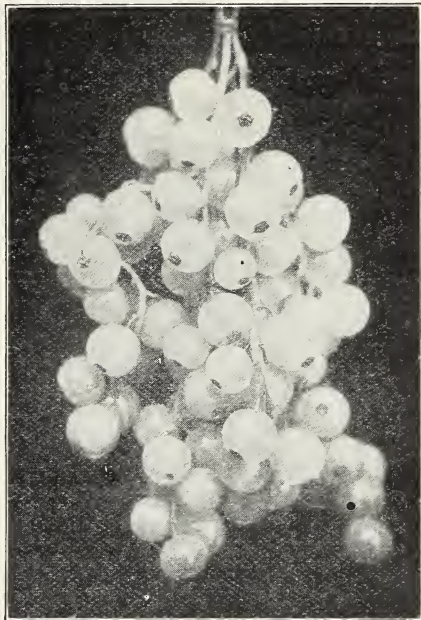
PORTAGE GOOSEBERRY.

GOOSEBERRIES.

Chautauqua—Yellowish-white; sweet, rich, of good quality; vigorous; great yielder.

Downing—Favorite American variety; light green, with distinct veins; skin

smooth; flesh rather soft; juicy and very good. Vigorous and productive.



WHITE GRAPE CURRANT.

Houghton—A medium sized American variety, which bears abundant and regular crops, and never mildews; fruit smooth, red; tender and very good; valuable.

Industry—An English variety; quite as free from mildew as our American sorts; very fine in quality; large size. Handsome, showy red fruit; wonderfully productive.

Josselyn (Red Jacket)—Best of large fruited American sorts; strong, vigorous grower, hardy and wonderful cropper. Berries pale red and highly flavored.

Pearl—Larger and more prolific than *Downing*.

Portage—One of the handsomest and best; large; of good quality, free from mildew, a good grower, and productive.

Smith's Improved—Large, oval; light green with bloom; flesh moderately firm; sweet and good. Vigorous grower.

CURRANTS.

Champion—(Black)—The finest Black Currant.

Cherry (Red)—Very large; deep red; rather acid; bunches short.



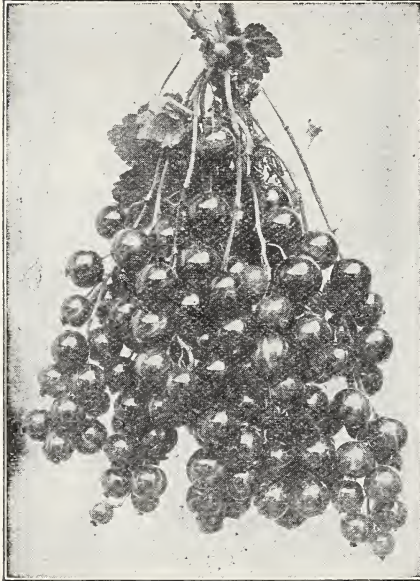
GENERAL CATALOGUE



Fay's Prolific (Red)—Of large size, fine flavor and twice as prolific as the Cherry.

Perfection (New)—Color, bright red. Larger than Fay and Cherry. Very productive. Quality fine. Not so acid as Fay.

White Grape—The finest of the white sorts.



FAY'S PROLIFIC CURRANT.

MULBERRIES.

Downing's Everbearing—The beauty of this as a lawn or street tree is quite enough to commend it, but in addition it yields an abundant supply of its large refreshing berries for about three months.

Russian—A hardy, rapid-growing tree. Fruit of little value.

ASPARAGUS.

Conover's Colossal—A well-known and popular variety.

Palmetto—A very early variety; even, regular size of excellent quality.

RHUBARB OR PIEPLANT.

Early Scarlet—Smaller than Myatt's early and very highest quality.

Myatt's Linnaeus—Of superior quality; tender, with a mild sub-acid flavor.

NUTS

ALMONDS.

Hard Shell—A fine, hardy variety with a large plump kernel.

Soft Shell—Not as hardy as above; kernels sweet and rich.

BUTTERNUT OR WHITE WALNUT

A fine native tree, producing a large, longish nut, prized for its sweet kernel.

CHESTNUT.

American Sweet—A native tree. Nuts sweet, of delicate flavor, and a valuable article of commerce.

Japan—Dwarf grower; productive, usually producing nuts when two or three years old. Nuts of immense size.

Spanish—A handsome round headed tree, producing abundantly large nuts.

FILBERT.

English—Of easiest culture; 6 to 8 feet high; hardy, profitable and satisfactory.

Kentish Cob—One of the best; large size, oblong, of excellent quality.

HICKORY.

Shell Bark—To our taste no other nut that grows, either foreign or native, is superior to this in quality. The tree is of sturdy, lofty growth.

PECAN.

Not hardy in the north, one of the best and most profitable where it succeeds.

WALNUT.

Black—A native tree of large size and majestic form, beautiful foliage. Tree a rapid grower, producing a large round nut of excellent quality.

English Dwarf Prolific—(Præparturiens)—A dwarf variety of English Walnut commences bearing very young; very prolific.

English Concord—Seedling. New and good.

English Franquette—Seedling. Large, thin shell.

English Maquette—Seedling. Large splendid quality.

French Chaberte—One of the best, very productive, extra fine quality.

Japan Sieboldi—Hardy, rapid grower, handsome form, immense leaves; bears young and abundantly.



SPRIG OF BARBERRY.

ORNAMENTAL DEPARTMENT.

DECIDUOUS TREES.

(Those varieties which do not retain their foliage during the winter.)

ALDER (*Alnus*).

Imperial Cut-Leaf (*Laciniata imperialis*)—Of stately, graceful growth, having deeply cut foliage. Vigorous and very hardy. Attains a height of about twenty feet.

ASH (*Fraxinus*)

European Flowering (*F. Ornus*)—Flowers greenish white, fringe-like, appearing only on the ends of the branches. Blooms early in June.

Gold Barked (*F. Aurea*)—Conspicuous, particularly in winter, on account of its yellow bark and twisted branches.

White (*Alba*)—The native ash.

BEECH (*Fagus*).

American (*F. Ferruginea*)—A well-known native sort.

Fern-Leaved (*F. heterophylla*)—An elegant tree of symmetrical habit, having beautiful cut, fern-like foliage.

Purple-Leaved (*F. purpurea*)—Dark purplish foliage, making a striking contrast with the green of other trees.

Rivers—Crimson foliage early in the spring, changing to a dark purple in summer. The finest of all purple-leaved trees.

BIRCH (*Betula*).

Graceful and suitable for any lawn. Hardy and thrifty in all soils.

Canoe, or Paper Birch (*B. Papyracea*)—This magnificent tree has gathered about it more poetic associations than any other native tree.

Common White (*B. Alba*)—A well-known variety, making a vigorous, erect growth, and having long, slender branches. Very desirable.

Purple-Leaved (*B. Foliis purpureis*)—A variety possessing the vigorous habit of the species, and having rich purple foliage.

CATALPA.

C. Speciosa—This is a tropical looking tree, and flowers in July, when few trees are in bloom. A very attractive lawn

C. Bungei—A small species 8 to 10 feet high and twice as broad, clothed with a dense mass of large, heart-shaped leaves.

CHESTNUT (*Castanea*).

Americana (*American Chestnut*)—This native tree is a rapid grower, and its nuts are sweeter than those of any other variety known.



GENERAL CATALOGUE



Japonica—Bears when five years old. The nuts are three times larger than those of the Americana but not so sweet.

Paragon—Bears when three years old; nuts large as a half dollar. Fruit sweet and of best quality.



CATALPA BUNGEI (Page 16)

CHERRY (*Cerasus*).

A handsome ornamental tree, especially adapted for small grounds.

Chinese Double Flowering (*Sinensis Flore Plena*)—A valuable variety, with large, double white flowers.

Seibold's Double Red Flowering (*Seiboldii Rubra Plena*)—A valuable red blossoming variety.

CRAB (*Pyrus*).

Bechtel's Double Flowering Crab—A medium-sized, ornamental tree of great beauty. When in bloom this tree presents the appearance of being covered with pink roses. Flowers large, fragrant and beautiful.

Floribunda—Flowers crimson, produced in great profusion. A charming variety.

DOGWOOD (*Cornus*).

White Flowering (*Florida*)—Foliage of a grayish green color; turning in the autumn to a deep red. The flowers appear before the leaves in the spring and are about three inches in diameter; white and very showy.

Red Flowering (*Flora Rubra*)—A valuable variety, producing beautiful carmine flowers.

ELM (*Ulmus*).

American White (*Americana*) A native tree of large size, with open, spreading head and graceful drooping branches.

English (*Campestris*)—A native of Europe, forming a tall, erect tree, with slender branches and small leaves.

HALESIA (*Snowdrop. Silver Bell*).

Tetraptera—Most beautiful when covered with its silver bell flowers in May.

HONEY LOCUST.

Three Thorned Acacia (*Gleditsia Triacanthus*)—A rapid growing tree;



AMERICAN WHITE ASH (Page 15)



OF NURSERY STOCK



delicate foliage, of a beautiful fresh, lively green, and strong thorns. Makes an exceedingly handsome, impenetrable and valuable hedge.

HORSE CHESTNUT (*Aesculus*).

European or White Flowering (*Ae. hippocastanum*)—A beautiful well known tree, forming a round compact head, with dark green foliage and an abundance of showy flowers in spring.

Red Flowering (*Rubicunda*)—A splendid tree producing showy red flowers a little later in the season than the white.

Glabra (Ohio Buckeye)—A native of the Western States; leaves smooth; flowers yellow; blooms before the others. 6 to 8 feet.

JUDAS TREE (*Cercis*).

American (*C. Canadensis*)—A very ornamental tree with heart-shaped leaves. Before the foliage appears, it is covered with a profusion of delicate pink flowers, from which it derives its name, Red Bud.

KOELREUTERIA.

Paniculata—A large shrub or small tree, with foliage somewhat resembling that of the Sumach, and producing large panicles of showy flowers in July. Foliage very brilliant in Autumn.

LABURNUM (*Cytisus*).

Golden Chain—Bears long, pendant racemes of golden flowers in June. Very showy and beautiful.

LARCH (*Larix*).

European (*Europæa*)—A beautiful, rapid-growing tree of irregular, pyramidal form, with small, drooping branches.

LINDEN OR LIME (*Tilia*).

American, or Basswood (*Americana*) A rapid-growing, open-head or spreading tree, with large leaves. Very desirable.

European (*Europæa*)—A very fine pyramidal tree, smaller in all its parts than the preceding.

White-Leaved European (*Alba*)—A vigorous growing tree, with large handsome foliage, quite downy and whitish underneath; smooth above.

LOCUST (*Robinia*).

Pseud-Acacia (*Yellow Locust*)—A dense-growing upright tree, with very numerous clusters of creamy white flowers; quite fragrant.

MAGNOLIA.

Chinese White (*Conspicua*)—A small tree, quite hardy, producing large, pure white flowers—very numerous—and appearing before the leaves.

Cucumber Tree (*Acuminata*)—A magnificent tree, producing in June yellow flowers, tinted with bluish purple.

Glauca (*Sweet Bay*)—Irregular in habit; foliage thick, glossy, deep green. It blossoms in June; flowers white and sweet-scented.

Lenne (*Lennei*)—A very showy flower; cup-shaped; crimson-purple outside and pearl colored within. One of the finest of the purple Magnolias.

Showy Flowered (*Speciosa*)—Flowers a little smaller than *Soulangeana*; bloom a week later and remain longer on the tree than any other variety.

Stellata; **Halliana** (*Hall's Japan Magnolia*)—Dwarf habit; blooms earlier than



JAPANESE MAPLE (*Polymorphum*).

other Magnolias, producing double pure white, fragrant flowers. Very desirable.

Soulangeana—A variety of the *Conspicua*, with showy white and purple flowers, cup-shaped and three to five inches in diameter; one of the finest.

MAPLE (*Acer*).

Ash-Leaved (*Negundo*)—A rapid-growing tree, with leaves and branches of a light green.



Ginnala—An exquisite miniature maple, with deeply notched leaves, which take on the most gorgeous colors in October.

Norway (Platanoides)—Very popular on account of its clean, broad foliage of rich, deep green. Stout, vigorous grower.



EUROPEAN LINDEN

Scarlet or Red (Rubrum)—Remarkable in the Spring for its masses of red flowers and seed pods and in the Fall for its brilliant crimson leaves.

Schwedler's Norway (Schwedlerii)—Young shoots and leaves of a purplish crimson color.

Silver-Leaved, or White (Dasycarpum)—A hardy, rapid-growing native variety of the largest size; foliage bright green above and silvery underneath. Valuable for producing a quick shade.

Sugar or Rock (Saccharinum)—A well-known native tree. Desirable as an ornamental shade tree.

Wier's Cut-Leaved (Wierri Laciniatum)—Grows very rapidly, and the shoots are so slender and drooping that it has a decidedly graceful appearance. The leaves are deeply and delicately cut.

JAPANESE MAPLES.

Cut-Leaved Purple Japan (Dissectum Atropurpureum)—One of the most striking and handsome varieties of the Japanese Maples. Form dwarf and weeping. Leaves are of a beautiful rose color, deeply and delicately cut, giving them an elegant fern-like appearance.

Dark Purple-Leaved Japan Maple (Atropurpureum)—Forms a bushy shrub; foliage dark purple, very ornamental. The best of the Japan Maples. One of the choicest small trees in the catalogue.

Japan (Polymorphum)—The normal form or type; growth shrubby; foliage small and of a cheerful green in spring and summer, changing to a lovely crimson in autumn.

MAIDEN HAIR TREE OR GINGKO (Salisburia).

Adiantifolia—A rare beautiful tree from Japan, with remarkable fern-like foliage; distinct and fine.

MOUNTAIN ASH (Sorbus).

Highly ornamental trees, particularly when covered with scarlet berries.



CAROLINA POPLAR. (Page 20)



MAGNOLIA SOULANGEANA, THE MOST POPULAR OF THE MAGNOLIAS (Page 17)

American (*S. Americana*)—Of coarser growth and foliage than the European, and having larger berries of a lighter color. White blossoms appear in early spring, followed by clusters of scarlet berries.

European (*S. Aucuparia*)—Of finer growth and form than the American. It blossoms during the early spring, after which the bright scarlet berries are formed in clusters.

Oak-Leaved (*S. Quercifolia*)—Very showy whether in bloom or berry. It forms a compact, pyramidal head. The leaves are bright green above and downy beneath. The blossom is white, forming in early spring.

MULBERRY (*Morus*).

Broad, low-branching, large-leaved, large-sized, fruit-bearing ornamental trees.

Downing (*M. Multicaulis*)—A pretty lawn tree, bearing fruit.

American—A variety said to be superior to the Downing.

Russian—A hardy, rapid-growing tree. The foliage is abundant and attractive; said to be desirable for silk worms. The timber is also valuable. Makes a large tree.

OAK (*Quercus*).

American White (Alba)—One of the finest American trees, of large size and spreading branches.

Burr, or Mossy Cup (Macrocarpa)—One of the noblest varieties; foliage the largest and most beautiful.

Rubra (Red Oak)—A broad tree of rapid growth; large, rich foliage, which turns to a bronzy red in the fall. Deservedly popular.

Scarlet Oak (Coccinea)—A native tree, of rapid growth; pyramidal outline, and especially remarkable in Autumn, when the foliage changes to a bright scarlet.

Pin Oak—A tall, upright growing variety when young, but with age the branches droop. Foliage bright and



glossy. One of the best oaks for street planting, and becoming very popular.

POPLAR (*Populus*).

Desirable where rapid growth is wanted.

Bolleana—A very compact upright grower, resembling the Lombardy Poplar; leaves glossy green above and silvery beneath. The bark of this variety is of a rich green color, giving it a distinct and striking appearance.

Carolina—Pyramidal in form and robust in growth. Leaves large, serrated and pale to deep green in color.

Lombardy (*Fastigiata*)—Well known for its erect, rapid growth and commanding form.

Trichocarpa—A fine new Poplar with long, oval leaves, dark green above, silvery beneath, of very vigorous growth.

PEACH (*Persica*).

Double Rose-Flowering (*P. Flore rosea pleno*)—Flowers double, pale rose colored, like small roses. Blooms in May.

Double White-Flowering (*P. Flore alba pleno*)—Exceedingly ornamental. Flowers double and pure white. Blooms in May.

PLUM (*Prunus*).

Pissardii—A beautiful plant with black bark and dark purple leaves; the new growth is especially bright. The fruit is red.

SYCAMORE (*Plantanus*).

Silver-Leaved, or White (*Alba*)—Leaves large, green above and pure white underneath. Rapid growth; wide-spreading habit.

Ornamental Plane—A lofty, wide-spreading tree; heart-shaped leaves. Entirely free from worms or insects. One of the oldest cultivated trees known.

THORN (*Crataegus*).

Dense, low-growing trees, and very ornamental when in bloom.

Double White (*Alba Pleno*)—Flowers small, clear white and desirable.

Paul's New Double (*Coccinea Flore Pleno Paulii*)—Producing bright crimson and very double flowers. One of the best.

TULIP TREE, OR WHITE WOOD (*Liriodendron*).

Tulipifera—One of our largest native trees, with large, glossy leaves, shaped like a violin. Very desirable.

YELLOW WOOD (*Virgilia Intea*).

One of the finest native trees. Flowers very fragrant, pure white, and produced in long, drooping racemes in June.

WILLOW (*Salix*).

Golden (*Vitellina Aurantiaca*)—Very conspicuous on account of its yellow bark.

Laurel-Leaved (*S*)—A fine tree, with large, shiny leaves.

Rosemary-Leaved (*Rosmarinifolia*)—Makes a striking, pretty, small-sized tree.

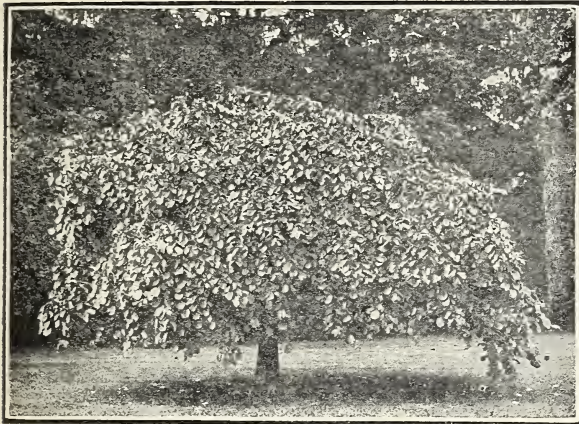
Kilmarnock Weeping (*Caprea Pendula*)—A distinct variety, it makes a very desirable small lawn tree, having a perfect umbrella-shaped head, and with the branches drooping gracefully to the ground.

Weeping (*Babylonica*)—Our common, well-known weeping variety; forms a large, round-headed, graceful tree.

Elegantissima (*Thurlow's Willow*)—Similar to, but more upright growing than *Babylonica*. Is a better grower and a more hardy tree



WEeping CUT-LEAF BIRCH (Page 21).



CAMPERDOWN ELM.

WEeping DECIDUOUS TREES.

The superior grace and excellence of the weeping varieties render them especially adapted to the yard or lawn. They must be trained to attain the best form.

ASH (*Fraxinus*).

Golden-Barked Weeping (*F. Aurea pendula*)—During the winter the bark is as yellow as gold, making a striking effect.

BEECH (*Fagus*).

Weeping (*F. Pendula*)—Of wonderful grace and beauty when covered with its rich, luxuriant foliage

BIRCH (*Betula*).

Cut-Leaved Weeping (*B. Pendula laciniata*)—This tree is indeed a picture of delicacy and grace. Makes a large tree.

Young's Weeping (*B. Pendula Youngii*)—The fine thread-like shoots droop to the ground, forming a picturesque tree.

CHERRY (*Cerasus*).

Japan Weeping (*C. Japonica rosea pendula*)—Rose-colored flowers. Slender branches which droop gracefully to the ground. Suitable for small grounds.

DOGWOOD (*Cornus*).

Weeping (*C. Pendula*)—A weeping form of the White Flowering distinct from all other weeping trees. Possesses the abundant bloom, handsome foliage and fruit of the White Flowering and makes a magnificent specimen.

ELM (*Ulmus*).

Camperdown Weeping (*U. Camperdown pendula*)—One of the most satisfactory weeping trees in cultivation. The growth is rapid, the foliage luxuriant; it forms a fine-shaped head, and is very hardy.

LILAC.

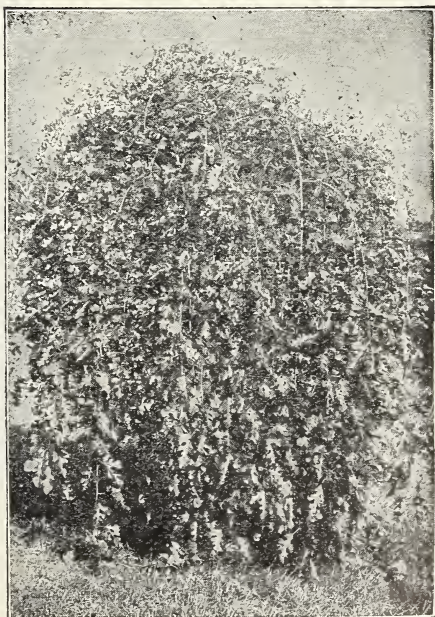
Japan Weeping—A graceful shrub from the mountains of Japan. The flowers are borne in clusters and are very fragrant. It is especially adapted for planting in small yards or

lawns, also among groups of shrubbery. It is very hardy.

LINDEN OR LIME (*Tilia*).

White-Leaved Weeping (*T. alba pendula*)—Slender, drooping branches, and large foliage. One of the finest and a good variety for a large lawn.

Americana—A spreading tree with large leaves and fragrant flowers.



TEA'S WEeping MULBERRY (Page 22).



MULBERRY, TEA'S WEEPING.

Perfectly hardy, forming a natural umbrella-shaped top or head; foliage handsome; a fine ornamental for the lawn.

WILLOW (Salix).

American (S. Americana pendula)—A variety with delicate leaves and slender branches. Graceful and ornamental. Never grows large.

Babylonica—Our common and well-known weeping willow.

Kilmarnock (S. Caprea pendula)—The best known of the finer weeping ornamental trees. Its great hardiness, vigorous growth, adaptability to all soils, easy culture, fine form, and unique appearance render it a general favorite.

Thurlow Weeping—Of stately proportions with graceful drooping branches and bright, long glossy leaves. The hardiest and best of the willows.

EVERGREEN TREES.

Evergreens are difficult to transplant and should never be set in the fall. We supply only the varieties described below.

ARBOR VITAE (Thuja).

American (T. Occidentalis)—A native variety, valuable for hedges. Stands shearing well.

var. **Aurea**—Golden foliage; fine.

var. **compacta**—A dwarf compact form.

Globe Headed (var. globosa)—A dwarf round headed variety.

Pyramidalis (var.)—Dark green, compact foliage and remarkably erect form; perfectly hardy.

Siberian (var. Sibiricus)—The hardiest variety. Good for hedges and screens, and the best for single specimens on the lawn.

Tom Thumb (var.)—A dwarf variety of the American. Valuable for small enclosures or low hedges. Compact growth.

CYPRESS (Cypressus).

Lawson's (Lawsonia)—Makes a large tree, with drooping branches and dark green foliage.

FIR (Abies).

Balsam, or American Silver (Abies balsamea)—A regular, symmetrical tree, assuming the conical form; leaves dark green above, silvery beneath.

Nordmann's Silver Fir (A. Nordmanniana)—Of symmetrical form, vigorous and quite hardy. Its foliage is massive, dark green, shining above and slightly glaucous below, rendering it a very handsome tree throughout the year.



THE PYRAMIDAL ARBOR VITAE.

P. concolor (Silver Fir of Colorado)—The finest of the Rocky Mountain evergreens. Tree of graceful habit; broad, handsome foliage, bluish above, silvery beneath. Very distinct and rare.



OF NURSERY STOCK



JUNIPER (*Juniperus*).

Chinensis Aurea (Golden Chinese Juniper)—One of the finest evergreens; spreading habit and beautiful gold-marked foliage.

Chinensis (*Argenteo-variegata*)—A beautiful variegated variety, in which numerous sprays of white are prettily interspersed among the dark green foliage.

Hibernica (Irish Juniper)—Tree with dense pillar-like growth. Glauous green foliage, with tips of branchlets erect.

Virginiana (Red or Virginia Cedar)—A native form, very common in New England. Tapering, bright, rich green

foliage. Bark on trunk and branches reddish brown. Thrives on dry soil.

Glauca (Blue Virginia Cedar)—One of the handsomest forms of these hardy evergreens. Foliage is distinctly silvery gray, holding its color throughout the year. Attracts attention wherever seen. Should be in every collection of evergreens.

Prostrata (Prostrate Juniper)—Low, spreading, native species, trailing close to the ground. Foliage bright green; bronzy in winter. Fine for rockwork or banks.

Prostrata, Aurea (Golden Prostrate Juniper)—A most beautiful plant, of low, spreading habit; forms a dense mass of foliage of a reddish brown shade, brilliantly tinged with yellow.

PINE (*Pinus*)

Austrian or Black (*P. Austriaca*)—A robust growing sort. Leaves long, stiff, dark green. Makes a large spreading tree.

Mugho (Dwarf Mugho)—An upright, small, beautiful pine bush.

P. ponderosa—Heavy wood-ened pine.

Scotch (*P. sylvestris*)—A fine, robust, rapid growing tree, with stout, erect shoots and silvery-green foliage.

Umbrella Pine (*Sciadopitys verticillata*)—A Japan evergreen tree with perfectly upright trunk with horizontal branches, bearing whorls of shining green, very broad, flat needles, lined with white on under side. Most elegant and unique conifer.

White, or Weymouth (*Strobus*)—Our common White Pine, and the handsomest of all the native species.

RETINISPORA (Japan

Cypress).

Filifera—This has slender, string-like, drooping shoots. Quite distinct from any other. It makes a unique specimen evergreen.

Filifera Aurea—A golden form of the preceding.

Obtusa—A charming lawn tree of vigorous growth, assuming a pyramidal outline, yet with a pleasing, open habit and graceful, waving branches



RETINISPORA OBTUSA.



Obtusa Nana—One of the best and hardiest. Intensely dark, shell-like leaves; very unusual. A most elegant evergreen shrub.

Plumosa—More compact growing than *Filifera*, and makes a nice ornamental tree.

Plumosa Aurea—One of the best known and most valued of all, because of its golden color. It makes a compact growth of much beauty.

Pisifera—Beautiful tree, with delicate branches and fine, feathery foliage.

Pisifera Aurea—A fine pyramidal, bright golden form; popular and graceful.

Squarrosa—This valued sort has steel-colored foliage and makes a tufty, compact growth. It grows to a large size, but by pruning can be kept down to almost any size, as, in fact, can all *Retinisporas*.

SPRUCE (*Picea*).

Colorado Blue Spruce—A beautiful variety, the nearest blue of any evergreen; very distinct in foliage and growth; fine, compact habit. Foliage rich blue or sage color.

Douglas Spruce (*A. Douglasii*)—From Colorado. Large conical form; spreading branches; horizontal; leaves light green above, glaucous below.

Hemlock (*A. Canadensis*)—Delicate, dark colored foliage, and drooping branches. Good for lawn, and also makes a good hedge.

Koster's Blue—A selected strain from the bluest tints of the Colorado Blue. This tree is propagated by grafting to preserve the true type, making it much more expensive than seedling trees. One of the most attractive conifers ever introduced. It holds its deep color throughout the year. Price according to height and shape.

Norway (*A. excelsa*)—Of large and lofty appearance. Well adapted for large enclosures, and stands pruning well. It is exceedingly picturesque and



BOX TREES. (Page 25)

beautiful; very popular and deservedly so. Includes weeping varieties.

American White (*A. alba*)—A tall tree, loose spreading branches, and foliage silvery gray. Very bushy and valuable.

TAXUS (*Yew*).

Canadensis (American yew)—A native evergreen, very hardy, and one of the few evergreens that even prefers a shady situation.

Cuspidata (Japan yew)—A rare and beautiful, low-growing evergreen. It is hardy as an oak and remains a deep green through the winter, even when exposed to sun and wind.

English (*T. baccata*)—A fine pyramidal variety of the English Yew, with dark green foliage. Hardy and desirable.

SHRUBS SUITABLE FOR PLANTING IN SHADY SITUATIONS.

- Barberry, European and others.
- Box, in variety.
- Ceanothus.
- Clethra, *alnifolia*.
- Cornus.
- Deutzia.
- Euonymus.
- Forsythia, *viridissima*.
- Honeysuckle.
- Kalmia, *latifolia*.
- Mahonia, *aquifolia*.
- Myrica, *cerifera*.
- Myrtle.

- Privet, in variety.
- Rhododendron.
- Rhus, *aromatica*.
- Rubus, *odoratus*.
- Symphoricarpos.
- Viburnum.
- Yew, Canadian.

The Viburnums will not flower in shady places, but the growth is very luxuriant.



A BED OF RHODODENDRONS.

BROAD LEAVED EVERGREEN SHRUBS.

ANDROMEDA.

Floribunda—Admired for its racemes of white flowers in early May, as well as for its evergreen character and hardy nature.

Japonica—A beautiful species, having bright green leaves and drooping racemes of waxy white flowers. Blossoms early in May. One of the most beautiful of dwarf broad-leaved evergreens.

LAUREL.

Mountain Laurel (*Kalmia Latifolia*)—In its blooming season this is almost as showy as the Rhododendrons. The white and pink flowers are borne in great showy clusters in May.

AZALEA.

Amoena—This little gem is practically ever green. In late Spring the plants are literally smothered with masses of rosy-crimson flowers. Bushy plants, 12 to 15 inches high.

BOX (*Buxus*).

The different species vary in size from low bushes to medium-sized trees. All are long-lived, of dense, compact growth,

and have dark green, glossy leaves. They are used for grouping, edging walks, planting against house foundations, for hedges, and in tubs, for formal gardens, terraces and porches. Will grow in sun or shade, but we have found it advisable to use some protection during very severe winters.

Box for edging, 4 to 6 inches.

Bushes, 18 to 24 inches.

Pyramid shaped, 3 feet.

Standard or Tree-shaped, 3 feet.

HOLLY (*Ilex*).

Crenata—Beautiful dense growing evergreen with small, deep, glossy green foliage. A plant of great ornamental merit.

MAHONIA.

Aquifolia (Holly-Leaved Mahonia)—Of medium size; large, shining, purplish green, prickly leaves, and bright yellow flowers in Spring. Very fine in masses or borders.

RHODODENDRON.

Hybrid Rhododendrons are superb evergreen shrubs, producing dense clus-



ters of magnificent flowers, being white, red, pink and purple. We can supply all colors, and offer a large list of named varieties. Very ornamental and desirable, especially when grouped.

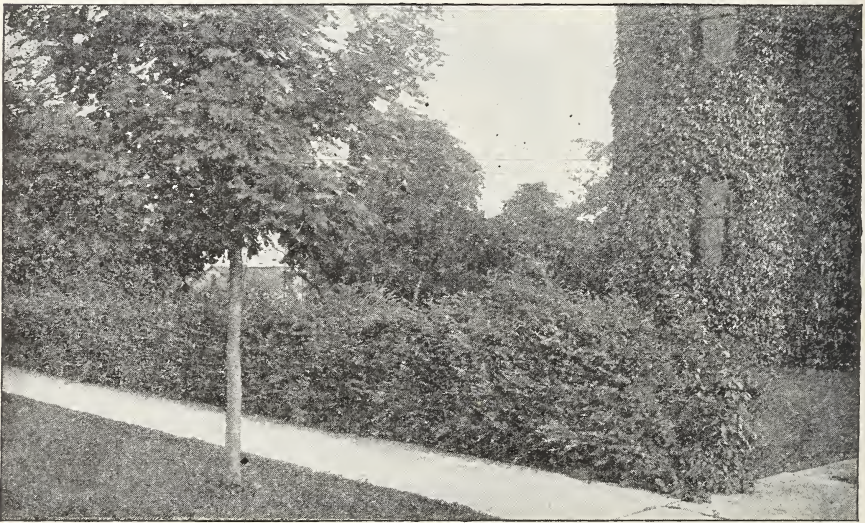
Rhododendron Maximum (Great Laurel)
—This is the hardy native Rhododendron which blooms in Midsummer, with their white, bluish and delicate pink flowers. They are valuable for planting alone, in

groups, or interspersed among other shrubbery, or with the brighter hybrid Rhododendrons.

YUCCA ((Adam's Needle).

Filamentosa—Broad, sword-like foliage and tall, branched spikes of large, fragrant, drooping, creamy-white flowers during June and July make it an effective plant for all positions.

FLOWERING SHRUBS.



THE JAPANESE BARBERRY, A FINE DECIDUOUS HEDGE PLANT.

ALTHEA OR ROSE OF SHARON
(*Hibiscus*).

The altheas are free growers, and not particular as to soil. They bloom in August and September, when but few other sorts are in blossom. They attain a height of from six to ten feet.

Double Purple (*H. Purpurea fl. pl.*).

Double Red (*H. Rubra fl. pl.*).

Double Pink.

Double White (*Alba*)—Very large and double, with reddish-purple center.

Variogated Leaved; Double Purple Flowered (*Flore Pleno fol. var.*)—A conspicuous variety with leaves distinctly marked with light yellow, and having double purple flowers; showy and desirable.

ALMOND (*Prunus Sinensis*).

Dwarf Double Rose Flowering (*A. Japonica fl. rubra pl.*)—A small shrub, producing in May, before the leaves appear, small, double, rose-like flowers, closely set on the branches.

Dwarf Double White (*A. Japonica fl. alba pl.*)—Produces beautiful white flowers in May.

AZALEA. ANGELICA TREE.

A small tree that gives a tropical appearance to gardens. Requires slight protection in winter.

A. Japonica—Large tripinnate leaves; flowers white, in large spikes in September.

A. spinosa (*Hercules Club*)—A native plant, valuable for producing tropical effects.



Pentaphylla—A pretty shrub, of medium size and rapid growth, with fine lobed palmate leaves.

AZALEA.

Ghent—Sufficiently hardy for open air culture and will stand our winters without protection, though a mulching of straw or loose litter is desirable. Can be furnished in all colors.



ALTHEA, DOUBLE PINK, (Page 26)

A. Mollis—A hardy species from Japan. One of the most valuable flowering shrubs. Flowers large and showy, in fine trusses and of various colors.

BARBERRY (Berberis).

American (Canadensis)—Yellow flowers, succeeded by red berries.

Purple Leaved (Purpurea)—A very handsome shrub, growing from three to five feet high, with violet-purple leaves and fruit.

Sieboldii (Siebold's Barberry)—A Japanese form, with very showy, solitary fruits of comparatively large size.

Thunberg's (Berberis Thunbergi)—A low, dense, neat little shrub, with a profusion of white flowers in May. These are followed by a heavy crop of rich red

berries that cling through the winter. In autumn when both leaves and berries are bright red it is very showy. Valuable for ornamental hedges, masses, borders, etc.

CALYCANTHUS FLORIDUS

(Or Sweet Scented Shrubs).

Blooms in June and at intervals through the summer. Flowers of a rare chocolate color; rich foliage. The wood and blossoms have a peculiarly agreeable flavor.

CLETHRA ALNIFOLIA.

Sweet Pepper Bush—A pretty little shrub that blooms freely for several weeks in summer; very fragrant white flowers.

CURRANT (Ribes).

The flowering currants are beautiful shrubs, in early spring and of easiest culture.

Yellow Flowering (R. Aureum)—Bright foliage, small yellow flowers, appearing in early spring.



TREE ALTHEA OR ROSE OF SHARON (Page 26).



GENERAL CATALOGUE



Crimson Flowering (*R. Sanguineum*)—Small deep red flowers, blooming in early spring very abundantly.

DEUTZIA.

The Deutzias are of Japanese origin, extremely hardy, luxuriant foliage, very attractive flowers, and fine habit.

Crenata—Double white flowers tinged with rose. Blooms the middle of June. 5 feet.

Gracilis—A graceful and charming shrub, with pure white flowers. Blooms the middle of June.

Lemoinei—Flowers pure white, borne on stout branches of upright growth. Dwarf and free flowering.

Pride of Rochester—One of the finest varieties, large double white flowers. It excels the older sorts in size of flowers, profuseness of bloom and vigorous habit. Blooms early in June.

DOGWOOD (*Cornel* or *Cornus*).

C. alba—Very conspicuous and ornamental in winter when the bark is blood red.

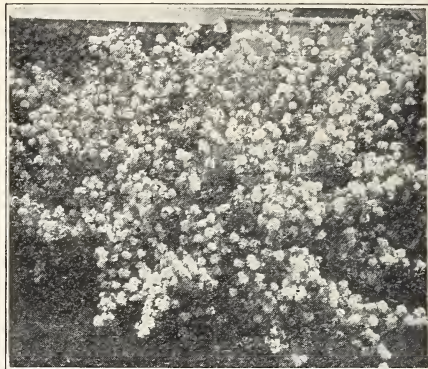
var. **Elegantissima Variegata**—One of the finest variegated shrubs; of rapid growth. The leaves are broadly margined with white, while some are entirely white.



GOLDEN ELDER.

var. **Sibirica** (Red Siberian)—During the winter the bark is of a bright red color. The foliage is beautifully silvery margined.

C. Mascula (Cornelian Cherry)—A small tree, native of Europe, producing clusters of bright yellow flowers early in spring, before the leaves, followed by red berries.



DEUTZIA LEMOINEI.

var. **variegata** (Variegated Cornus)—The flowers are bright yellow and are borne in clusters in early spring, before the leaves appear. The foliage is beautifully variegated with white. Makes a small shrub.

ELDER (*Sambucus*).

Hardy, easily grown shrubs.

S. Canadensis (Common Elder)—Broad panicles of white flowers in June; reddish purple berries in autumn.

var. **aurea** (Golden Elder)—A handsome variety, with golden yellow foliage. A valuable plant for shrubberies.

var. **laciniata** (Cut-leaved Elder)—One of the best cut-leaved shrubs.

ELEAGNUS (*Oleaster*).

E. argentea (Silver-leaved)—A native species of erect growth and silvery foliage. Flowers small, yellow. July and August.

E. longipes (Japan Oleaster)—In July the plant is covered with red berries. The bush is highly ornamental, the leaves remaining fresh till late in autumn.

EXOCHORDA.

E. Grandiflora (Pearl Bush)—From North China. A compact, hardy bush 10 to 12 feet high; can be trimmed into any desired shape. The flowers are borne in May in slender racemes of eight to ten florets each.



PURPLE FRINGE.

FILBERT (*Corylus. Hazlenut*).

C. American—The well known American hazel nut.

C. avellana var. atropurpurea (Purple leaved filbert)—A very conspicuous shrub with large, dark purple leaves.

C. a. var. aurea (Golden-leaved filbert)—A rare and beautiful shrub; foliage bright golden color.

FORSYTHIA.

F. Fortuneii—Growth upright, foliage deep green, flowers bright yellow. Early flowering shrub. Very hardy.

F. Viridissimi—An elegant, hardy shrub. Bark and foliage a dark green color. Beautiful yellow flowers. Blooms in May before the leaves appear.

Intermedia—This also is an erect-growing shrub, but when full grown the branches become arching and it resembles *Suspensa*; very floriferous.

Suspensa—In this variety we have the weeping form with long, pendulous branches; golden-yellow flowers early in April.

FRINGE (*Chionanthus*).

Purple Fringe, or Smoke Tree (*Rhus Cotinus*)—A small tree or shrub, very much admired on account of its peculiar fringe or hair-like flowers, covering the whole surface of the bush in mid-summer.

White (*C. Virginica*)—A superb shrub. 10 to 20 feet. Has a compact, roundish form, large, glossy leaves, and drooping racemes of pure white flowers. Blossoms in May and June.

HONEYSUCKLE—UPRIGHT

(*Lonicera*).

Fragrant Upright (*L. Fragrantissima*)—A desirable variety, with dark almost evergreen foliage. Small, very fragrant flowers. Blooms in May. A valuable shrub.

Morrowi—One of the handsomest of the bush honeysuckles. Wide spreading branches, bush 6 feet. Flowers followed by bright red fruit in August, persisting until late in fall.

Red Tartarian (*L. Tartarica rubra*)—Blooms in May. Bright pink flowers.

White Tartarian (*L. Tartarica alba*)—Blooms in May. Flowers a dull white color.



WHITE FRINGE.

HYDRANGEA.

H. arborescens grandiflora alba—The blooms are large, snow white and foliage



GENERAL CATALOGUE



finely finished. Hardy. Season from June through August. Best Hydrangea.

H. Paniculata Grandiflora—Hardy; thrives in all soils; grows rapidly and blossoms profusely. The flowers are pure white, afterwards changing to pink.

HYPERICUM (St. John's-wort).

Hypericum (Aureum)—A dense, globular shrub with oval, glossy, foliage and myriads of bright golden-yellow flowers, borne for a period of several weeks.

ILEX (Holly).

Verticillata (Black Alder, or Winter-berry)—Of close, upright growth, with oval foliage; thickly studded in autumn and throughout the winter with masses of most brilliant scarlet berries.

JAPAN QUINCE (Pyrus Japonica).

C. Japonica—Very ornamental in early spring, as its bright scarlet flowers completely cover the branches before the leaves are formed. Makes a good hedge.

KERRIA (Corchorus. Globe Flower).

Japonica—A beautiful shrub of graceful open habit, with slender green branches clothed with pointed soft green foliage and thickly studded with single, deep golden-yellow flowers in early summer and also borne at intervals in smaller quantities throughout the summer.

Flore Pleno—Double flowering kerria. A medium sized shrub, with double yellow flowers. July to October.

Foliis Variegatis (Variegated)—Of dwarf, more rounded habit than the type, with foliage beautifully edged and striped with silver.

LESPEDEZA.

Bicolor—A shrub from Japan, with slender branches, becoming tall and graceful; foliage resembles clover leaf; small purple flowers in July; a good shrub for adding variety to a border.

LILAC (Syringa).

Charles X—Deep purplish lilac flowers in large trusses.

Frau Bertha Dammann—This produces the largest clusters of white lilacs of the common species known in cultivation, and also the purest white.

Japonica—A species from Japan, becoming a good sized tree. Foliage dark green, glossy, leathery; flowers creamy white, odorless, in great panicles. A month later than other Lilacs.

Ludwig Spaeth—Deep purplish red flowers in dense, large panicles. Best of its color.

Madame Abel Chatenay—Large panicles; double white, very fine.

Marie Legraye—Large panicles of white flowers. Valuable for forcing. The finest white Lilac.

Madame Lemoine—Double. Superb double white.

President Grevy—Elegant, large, dense trusses of double, deep blue flowers. One of the finest new double sorts.

Persica (Persian Lilac)—Small foliage and bright purple flowers.

Alba (White Persian Lilac)—Delicate white fragrant flowers, shaded with purple. A superb variety.

Vulgaris (Common Lilac)—Bluish purple flowers. A standard variety.

Alba (Common White Lilac)—Cream colored flowers.

PLUM (Prunus).

Prunus Pissardii (Purple-leaved)—A perfectly hardy, small-sized tree or shrub, of elegant appearance. The bark is black, and the leaves a rich purple, gorgeous to behold, retaining their bright color through the entire season. The ends of the growing shoots are brilliant red.

P. Triloba (Double flowering)—A very pretty little shrub, hardy and desirable. The flowers about an inch in diameter, semi-double, of a delicate pink color, appearing in May.

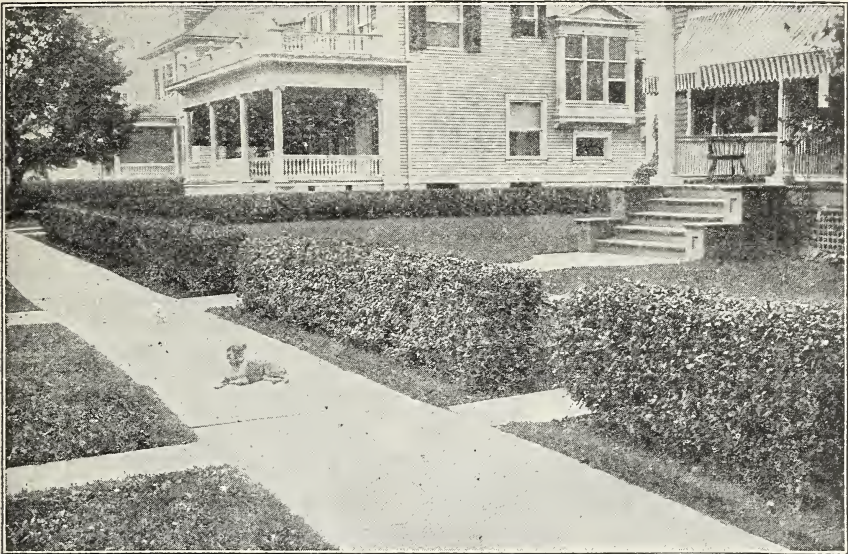
PRIVET (Ligustrum).

Chinese Privet (L. Ibota)—A valuable shrub, native of China and Japan. Flowers, large, white, very fragrant, produced in great profusion; leaves long and shining; one of the hardiest of the Privets and distinct.

California (L. ovalifolium)—Of great value as a hedge, and of such positive beauty as to be attractive when grouped with other shrubs. When planted singly it forms a very compact, dense, upright shrub, of medium size. The leaves are so glossy as to have the appearance of having been freshly varnished. The foliage hangs on until late in the winter, making it nearly evergreen.

RHODOTYPUS (White Keria).

Kerroides—A choice and rare Japanese shrub. It is a slender-branched bush, with very pretty, deeply veined leaves,



HEDGES OF CALIFORNIA PRIVET.

and pure white flowers, borne at intervals all summer.

SNOWBALL (*Viburnum*).

Common (Sterilis)—The well-known sort, and a general favorite on account of its large clusters of white flowers in June.

High, or Bush Cranberry (*Opulus*)—Red berries resembling cranberries.

Dentatum (Arrow-Wood)—Glossy, handsome leaves, white flowers, and fine, steel-blue berries in fall.

Japan (*Plicatum*)—A beautiful species from Japan, surpassing the Common Snowball in many respects, as its habit is much better; foliage handsomer, flowers whiter and more delicate.

Tomentosum (Single Japan Snowball)—Foliage resembles the Japan Snowball; flowers white, in flat racemes and in great profusion.

STEPHANANDRA.

Flexuosa—A handsome, graceful shrub with spreading, drooping branches and elegant foliage. Bears pure white flowers in June. In Autumn the foliage takes on handsome purplish coloring.

STRAWBERRY OR SPINDLE TREE (*Euonymus*)

A showy shrub. Its chief beauty consists in its red berries, hanging in graceful

clusters from the end of the branches until midwinter.

SYRINGA OR MOCK ORANGE (*Philadelphus*).

Garland (Ph. Coronarius)—A well known hardy shrub. White, fragrant flowers. Blooms in June. Makes a large shrub.

Golden-Leaved (Ph. Foliis aureis)—A small shrub of striking beauty. The foliage is golden yellow, and retains its lovely color through the entire season. White flowers. Blooms in June. Very hardy.

Large-Flowered (Grandiflorus)—A desirable sort.

SPIREA.

Anthony Waterer—A new dwarf compact-growing shrub. Blossoms in broad flat heads of beautiful deep red color. A perpetual bloomer.

Aurea—The leaves are bordered with golden yellow, particularly in June, when the branches are covered with small double white flowers.

Billardi—Blooms nearly all summer; rose colored; fine; showy.

Callosa—Desirable because it blooms nearly all summer. The flowers are rose-colored, borne in panicles. A very free grower.



GENERAL CATALOGUE



Douglass (*S. Douglasii*)—Spikes of rose colored flowers in July and August.

Golden-Leaved (*opulifolia aurea*)—Variety with golden yellow foliage, and tinted flowers in June. Strong grower.

Reevesi—Narrow, pointed leaves. The flowers are white, quite large, and borne in clusters, entirely covering the whole plant. Blooms in June.

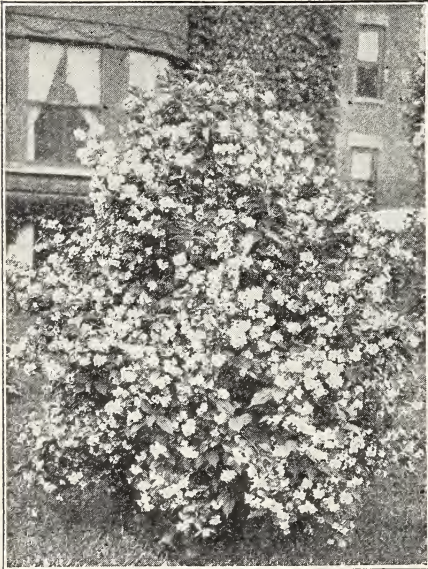
Thunbergs' (*Thunbergii*)—A Japanese species of small size, with narrow linear leaves and small white flowers; one of the best.

Van Houttei—The finest of all *Spiræas*, a most charming and beautiful shrub; having pure white flowers in clusters. Extraordinarily profuse in bloom, and the plant is a vigorous grower and very hardy.

SUMAC (*Rhus*).

Copallina (*Shining Sumach*)—Foliage a lustrous green in Summer, changing to a rich crimson in the Autumn. Greenish yellow flowers in August.

Fern-Leaved (*Laciniata*)—A hardy plant with beautiful fern-like leaves, milky white on under side, changing to a brilliant scarlet in autumn.



GARLAND SYRINGA (Page 31)

Staghorn (*R. typhina*)—A large shrub or tree, brilliant foliage and scarlet fruit in autumn.

SYMPHORICARPUS. (*St. Peter's Wort or Waxberry*).

Racemosus (*Snowberry*)—A well known shrub with small, pink flowers and large, white berries that hang on the plant through part of the winter.

Vulgaris—Red-fruited or Indian currant. A shrub of very pretty habit. Foliage, flowers and fruit small; fruit purple and hangs all winter.

TAMARIX

Of great value for planting by the seaside.

African (*Africana*)—Thrives in any soil. The foliage is handsome. The flowers are small, borne in spikes in May. Its habits are upright.

Chinensis—A vigorous upright grower, delicate light green foliage, flowers rose colored, in September.

WEIGELA (*Diervilla*).

Of Japanese origin, producing in June and July superb large trumpet-shaped flowers, of various colors, from the purest white to the richest red; very ornamental in the fall.

Candida (*white*)—It is of vigorous habit, an erect grower becoming in time a large-sized shrub; flowers pure white and produced in great profusion in June; plants continue to bloom during summer.

Rosea—The best known sort. From China. Rose-colored, trumpet-shaped flowers. Blooms in June. 4 to 6 feet.

Variegated-Leaved (*Foliis variegatis*)—Leaves bordered with yellowish white, making the bush very conspicuous the entire season. Pink flowers blooming in June. A very desirable bush.

CLIMBING AND TRAILING SHRUBS.

Ornamentals of this class are so hardy, so easily grown, and so beautiful, that they deserve great attention.

AKEBIA.

Canadensis Quinata—A singular Japanese climbing shrub, with fine foliage, purple flowers and ornamental fruit.

AMPELOPSIS.

American Ivy, or **Virginia Creeper** (*A. quinquefolia*)—Also called **Woodbine**. A very rapid grower, having beautiful, dark green foliage; assumes rich crimson hues in autumn.



Veitchii, or **Boston Ivy**—Leaves a little smaller and more ivy like in form than the foregoing. Overlapping each other, they form a dense sheet of green. The plant requires a little protection the first winter until it is established, but after that it may be safely left to care for itself. It grows rapidly and clings to the surface of even a painted brick wall with great tenacity. The foliage changes to crimson scarlet in autumn.

ARISTOLOCHIA (*Dutchman's Pipe*).

Sipho—A rapid growing vine, with magnificent foliage, ten to twelve inches in diameter, and curious pipe-shaped, yellowish-brown flowers.

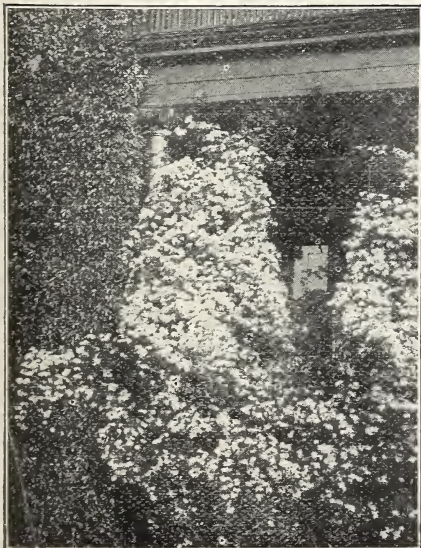
BIGNONIA, OR TRUMPET FLOWER.

Radicans—A vigorous and hardy climber, with clusters of scarlet, trumpet-shaped flowers in August.

Grandiflora (New)—Leaves thick and shining, and immense blossoms of gorgeous crimson and yellow.

CELASTRUS.

Scandens (Bitter Sweet)—One of our native climbing plants of rapid growth, with attractive light green foliage and yellow flowers during June, which are followed in the Autumn with bright orange fruit.



CLEMATIS AND AMPELOPSIS.

CHINESE MATRIMONY VINE

(*Lycium Sinensis*).

A vigorous climber, covered with bright purple, star-shaped flowers, succeeded by brilliant scarlet berries. Flowers and fruit continue forming throughout summer. Of the easiest culture, thrives everywhere and in any soil.

CLEMATIS.

The finer varieties of clematis are today the most showy and effective of all the hardy flowering climbing vines known, so far as richness of color and elegance of form of the flower is concerned. They are peculiarly adapted for covering pillars, trellises, walls, fences, rocks, etc., their exceedingly rapid growth rendering them especially valuable for hiding from view any unsightly object. They are equally efficient when used as a bedding plant, covering a bed very quickly if pegged down occasionally.

C. Coccinea—A bell-shape heavy petal-ed flower, borne in profusion for a long season, color bright scarlet.

Duchess of Edinburgh—The best of the double pure whites. Deliciously scented.

Crispa—Flowers blue, with center of petals an opaque white; fragrant.

C. Henryi—Fine bloomer; flowers large, of a beautiful creamy white, consisting generally of from six to eight sepals. June to October.

C. Jackmanni—One of the most popular varieties. It is a strong grower and produces a mass of intense violet purple flowers from June to October.

C. Madame Edward Andre—Flowers large, of a beautiful bright velvety red, very free flowering and continuous bloomer.

C. Paniculata—From Japan. A luxuriant grower, profuse bloomer, with fine foliage. Flowers of medium size and fragrant, produced in the greatest profusion in late summer.

C. Ramona—A strong, rampant grower, and very hardy. It is a free and perpetual blooming variety; the color of the flower is a deep sky-blue, and larger than any variety.

C. Virginiana—American white. A remarkably rapid climbing plant growing to the height of 20 feet and producing a profusion of flowers in August.

HONEYSUCKLE (*Lonicera*).

L. Canadian—A robust, rapid grower, with glaucous leaves and yellow flowers.



GENERAL CATALOGUE



Chinese Twining (L. Japonica)—A well-known vine holding its foliage nearly all winter. Blooms in July and September and is very sweet.

Hall's New Japan (Halleana)—An almost evergreen variety, with pure white flowers, changing to yellow; very fragrant and a vigorous grower. Covered with flowers from July to December.

Golden-Leaved (Aurea Reticulata)—Moderately strong grower, with leaves veined and spotted with bright golden yellow.

Monthly Fragrant (Belgica)—Flowers red and pale yellow; sweet scented; blooms through the summer.

Scarlet Trumpet Monthly (Semper-virens)—Flowers deep red, trumpet-shaped flowers all Summer.

IVY (Hedera).

The evergreen Ivies often suffer in winter if exposed to the sun, and should therefore, be planted on the north side of the wall or building.

H. cœnariensis or **hibernica** (Irish ivy)—The well known sort used in covering the north side of buildings, leaves deep green.

English (H. Helix)—A well-known old and popular sort.

PASSIFLORA.

Incarnata (Passion flower)—A perennial dying to the ground in Winter and reappearing in Spring. Not hardy in the north.

PUERARIA THUNBERGIANA (Kudzu Vine).

Kudzu Vine—The most rapid growing vine in cultivation. Its foliage is large and furnishes dense shade; it bears small racemes of rosy purple, pea shaped blossoms towards the close of August.

TRUMPET VINE (Radicans).

A splendid climber, vigorous and hardy, with clusters of large, trumpet-shaped scarlet flowers in August.

WISTARIA.

Chinese Purple (W. sinensis)—One of the most elegant of climbing vines and a rapid grower. Bears long clusters of pale blue flowers in May and June, and also in September. Extremely hardy.

Chinese White (W. var. c. alba)—Habit of growth similar to Chinese Purple, but the flowers are somewhat smaller and pure white. Blooms in June and September.

HEDGE PLANTS.

Evergreens must be handled with care; the roots should not be allowed to dry out. Plants for hedges should be placed about twelve inches apart, more space being allowed for larger plants. California Privet, Honey Locust and Osage Orange are generally planted in double rows about nine inches apart. Other deciduous shrubs for hedges should be planted about twelve inches apart.

We recommend Evergreens like the *American* and *Siberian Arbor Vitæ*, *Norway Spruce*, *Austrian* and *Scotch Pines*, and many of the Deciduous and Evergreen shrubs, such as the *California Privet*, *Berberis Thunbergii*, *Rosa Rugosa*, *Japan Quince*, *Tamarix*, *Deutzias*, *Spiræas*, *Mahonia*, etc., and for defensive hedges, the *Buckthorn*, *Honey Locust* and *Osage Orange*.

EVERGREEN HEDGE PLANTS.

Arbor Vitæ, American	Pine, Austrian
“ “ Siberian	“ Scotch
Mahonia aquifolia	Tree Box, in
Norway Spruce	variety
	Dwarf Box

DECIDUOUS HEDGE PLANTS.

Berberis Thunbergii	Rosa rugosa
Buckthorn	Spiræas
Honey Locust	Tamarix
Japan Quince	Thorn, coccinea
Osage Orange	“ crus galli
Privet, California	



HERBACEOUS DEPARTMENT.

ACHILLEA (Yarrow).

Achillea millefolium rubrum—A garden form of the "white Yarrow" so common along the roadsides. Deep rose; flowers freely.

A. Ptarmica plena—"The Pearl." Pure white double, particularly good for cutting.

A. tomentosa—A golden yellow species, very different from all the preceding, growing in tufts and covering the ground with a carpet of green. July.

ACONITUM (Monkshood)

Aconitum Napellus—A stately plant so often seen in old-fashioned gardens. Large dark purple flowers. September and October.

A. Japonicum—Deep blue flowers tinged with red. July to September.

ANEMONE (Windflower)

The Japanese Anemones are undoubtedly the best of their kind, and well worth special attention. They bloom in late fall when flowers are becoming scarce, and are very fine for cutting.

Anemone Japonica—There are a number of forms and colors of the Japanese anemones all of which are particularly fine. We list the following as being the best of the class.

A. Japonica alba—Large white flowers.

A. Japonica brilliant—Beautiful shade of dark red.

A. Japonica, Queen Charlotte—Beautiful new variety, with large, semi-double flowers of exquisite pink.

ANTHEMIS (Chamomile).

Anthemis inctoria—Yellow. The daisy-like flowers and finely cut foliage makes it a serviceable plant. *Tinctoria Kelwayi* is an improved form; and *Tinctoria pallida* a creamy yellow variety. July.

A. nobilis—The Chamomile of commerce. Much finer foliage than the preceding with a creeping habit and white flowers. June.

AQUILEGIA (Columbine).

The Columbines have an established place in all old-fashioned gardens. Their curious forms and many pleasing shades of color, and the readiness with which they adapt themselves to all localities, have made them prime favorites.

Aquilegia alpina—In many shades of blue and purple. June.

A. Canadensis—Scarlet. May and June. 1 ft. A pretty flower for rockwork and partially shaded places.

A. vulgaris—Common garden Columbine, in all shades of blue and purple.

ASTER (Michaelmas Daisy or Starwort).

In the fall of the year, they make a grand sight when planted in masses, and if the right selection be planted, will keep the garden gay from June until frost.



PAEONIA

A. amethystinus—One of the most showy. Large, pale blue flowers. September.

A. Chapmani—White.

A. incisus—Light blue. July and August.

A. Tataricus—Has a stem 6 to 8 ft. high, with a huge panicle of light purple flowers, in the fall, after almost all other flowers are over.

CAMPANULA (Bellflower or Bluebells).

Nearly all the Campanulas bloom during the summer, and are good for cutting.

Campanula glomerata—Blossoms borne in clusters on long stems. June. Blue.

C. medium—The well-known Canterbury Bell. Flowers large. Blue and white.

C. persicifolia alba—White flowers of immense size.



GENERAL CATALOGUE



DICENTRA OR DIELYTRA

C. rotundifolia (the Scotch Harebell)—A pretty plant, well deserving of its popularity.

CHRYSANTHEMUMS.

Our collection of hardy chrysanthemums is of the finest, the following being a choice selection of the best in size and color.

- Autumn Queen—Pink, large.
- Flamingo—Dark red.
- Golden Pheasant—Bronzy yellow.
- Regulus—Brown.
- Eugene Laungeolet—Yellow, tipped red.
- Flora—Clear yellow.
- Mrs. Wheeler—Pink.

CONVALLARIA (Lily-of-the-Valley).

There is a corner in every garden where a few of these old favorites should be planted. Our stock is well established and will give good satisfaction.

Convallaria majalis—The well-known Lily-of-the-Valley.

DELPHINIUM (Larkspur).

The following list of Delphiniums comprises the best in general cultivation. They bloom from June to August.

- Delphinium azureum*—A beautiful azure-blue, varying to white.
- D. Chinese* (Chinese Larkspur)—Foliage very fine cut. All shades of blue and white.

DIANTHUS (Pinks).

Dianthus barbatus—The well-known Sweet William, in many colors. Blooms continuously all summer, and is one of the easiest to cultivate.

D. Heddewigi—Among the most beautiful of the hardy pinks. Flowers of all colors, and many peculiar markings.

D. Chinensis—Beautiful single and double flowers of many colors and markings.

D. Plumarius, Her Majesty—A fine white variety.

D. Plumarius, May—Pink, with fringed petals.

DICENTRA (Bleeding Heart).

D. Spectabilis—A pleasing and well-known plant. It can hardly be surpassed for cutting for vases. Pink. Early spring.

DIGITALIS (Foxglove).

The *Digitalis* likes a little shade or a cool, somewhat moist place, though doing well under generally fair conditions.

Digitalis grandiflora—Yellow flowers; quite rare. June and July.

D. purpurea—Flowers purple and white. May and June.

D. lanata—Small flowers, creamy yellow varying to white and pale lilac; racemes long and dense.

FUNKIA (Day Lily, or Plantain Lily).

The day lilies are very attractive, both in flowers and foliage, and thrive well in damp and partially shaded places, although they will grow in almost any locality.

F. Japonica (subcordata, or alba)—Pale green foliage and large, fragrant, pure white, wax-like flowers. One of the best. September.

F. Lancifolia—Dark, shining green, narrow foliage and blue flowers. August.



WHITE DAY LILY



GAILLARDIA (Blanket Flower).

No plant in the hardy garden gives more satisfaction than the Gaillardia. It flowers in great profusion nearly all summer long. The long, dry spells affect it very little, and except in very wet places, it will grow anywhere.

Gaillardia aristata—Newest hybrids, very large and fine. Crimson, yellow and brown are the prevailing colors. Its value is heightened by removing the old flower-heads, thereby lengthening the blooming period.

G. Maxima grandiflora—Extremely large flowers of bright golden yellow. In bloom constantly from early summer to frost.

HEMEROCALLIS (Day Lily).

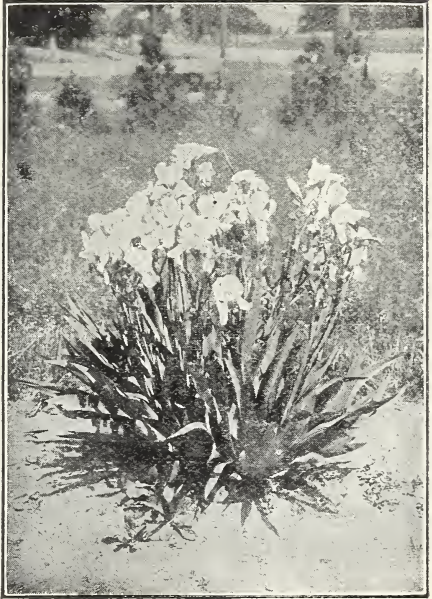
The Hemerocallis, or bronze and yellow day lilies are among the most popular of hardy plants. All are robust growers and satisfactory in every way.

H. flava—Lemon-yellow. Very fragrant and one of the best. June.

H. fulva—The old-fashioned bronze day lily. August.

HOLLYHOCK (Althea Rosea).

The stately hollyhock is more popular than ever, although it is perhaps one of the oldest of garden plants. The doubles are in six colors, the very best strains of white, red, yellow, maroon, salmon and pink; singles mixed.



IRIS

IRIS.

Beautiful flowering, hardy bulbous plants which bloom early in the spring.

Aurea—Solid, bright yellow; very fine.

Madame Chereau—White, elegantly frilled with violet. One of the best. Very effective for edging.

Pallida Prosperden—Light and deep lilac.

Queen of May—Light lilac, blending to whit

MYOSOTIS (Forget-me-not).

Myosotis palustris—The old-fashioned forget-me-not. Dainty blue.

OENOTHERA (Evening Primrose).

Oenothera Missouriensis (macrocarpa)—Lemon yellow; very large flowers and curious fruit.

M. speciosa—Large white flowers. A grand species of exceptional merit.

M. Youngii—Pale yellow.

PAPAVER (Poppy).

Papaver bracteatum—Crimson-scarlet, with black spots.

P. nudicaule (Iceland Poppy)—Dwarf form; bright yellow flowers

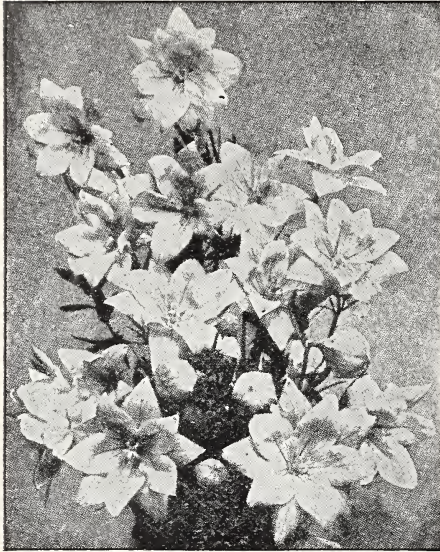
P. orientale—Large, bright crimson. June.



PHLOX



GENERAL CATALOGUE



PLATYCODON

PAEONIES.

Canariensis—Flesh white, with rich canary center.

Festiva Maxima—About the largest and undoubtedly the most popular peony of them all. High built flowers borne on long stiff stems; the purest white, inner petals slightly tipped carmine. Early.

Officinalis rubra—Fl. pl. Rich, deep, crimson; the great Decoration Day peony.

Officinalis rosea—Earliest pink.

PHLOX.

It is no exaggeration to say that the perennial phlox are among the best and most popular garden plants. For producing a grand show of color they have no equal; they produce a fine effect when grouped with other plants in the hardy border, furnishing brightness after the shrubs are done blooming.

Another good quality is its long continuance in bloom. It begins to blossom in early summer and continues until late in the fall.

Colors: pure white, white with carmen eye, dark red, crimson, orange red, scarlet, light pink, dark coppery pink, purple, violet.

PLATYCODON (*Chinese Bellflower*).

Handsome flowers, with a flowering season lasting from June to October. The prevailing color is blue, but they often come white or variegated.

Platycodon grandiflorum—The tallest, growing 2 feet high.

P. Japonicum—More bushy, with larger flowers.

RUDBECKIA (*Cone-flower*).

The Rudbeckias do much to keep the garden bright during the hot days of summer. All are of a rich yellow color, and, with one exception, have cone-shaped, brown centers.

Rudbeckia fulgida hirta and *speciosa* are kinds known as Black-eyed Susans, differing only in habit. They produce sheets of golden bloom in July and August.

R. laciniata (*Golden Glow*)—The double, yellow, dahlia-like flowers borne on stems 6 to 8 feet high, in great profusion, make it a very conspicuous object during August.

R. Maxima—Very distinct and striking, having large, glaucous green leaves, and sending up flower-stems 5 feet high, each stem bearing from one to four flowers.

SOLIDAGO (*Goldenrod*).

Although these are so common, they make very pleasing subjects to plant along shrubbery borders.

Solidago caesia—One of the finest of the goldenrods.

STOKESIA.

Stokesia cyanea—A very pleasing flower, very much like the China Aster. Blue. July to September.

TRITOMA (*Red-hot-Poker Plant*).

Has sword-like leaves and dense spikes of fiery red flowers, borne on a stiff stem, 3 to 4 feet high. Needs protection in winter.

Tritoma uvaria grandiflora—Vermilion-scarlet flowers changing to orange. July and August.

TROLLIUS (*Globe Flower*).

The Trollius, or Globe flowers, are very attractive, and much resemble large buttercups.

Trollius Europaeus—Yellow. Large. May and June.



ROSES.

Roses succeed best in a deep, rich, clay loam soil. In making a rose bed, prepare the soil as follows: If in the lawn, and the ground is sodded over, remove the sod, if the ground is a stiff clay, to the depth of four inches, spade up the ground to the depth of 15 inches thoroughly, then prepare a compost as follows: Two parts of leaf mold, one part sandy soil, or leached ashes, one part good, well-rotted cow manure. Mix these thoroughly together and place six inches deep of this mixture on top of the bed. Spade it in thoroughly, mixing into the ground. If the ground is sandy use the same amount of clay loam and cow manure. If it is a clay loam use leaf mold two parts, and cow manure one part, and proceed the same as above; if it is a muck and the ground is well drained, use a liberal amount of well-rotted cow or horse manure. The manure must be well rotted and mixed thoroughly through the soil.

How to Plant—Place new stock in soft water twenty-four hours before setting; prune off all the broken roots. Plant $2\frac{1}{2}$ feet apart. If set in rose beds 2 feet; in hedge, if set two rows side by side, $2\frac{1}{2}$ by $3\frac{1}{2}$ feet. When setting be careful to straighten out the roots and press the dirt well around them with foot or hands. Set them as deep as they grow in the nursery. You can tell by the dark earth-line on the rose stalk. Budded roses should be set with the bud 4 inches under the ground. After setting, cut the tops off the weak plants 6 inches from the ground, and the strong plants 8 inches, either fall or spring setting. If it is in the spring cover the top of the bed $1\frac{1}{2}$ inches deep with good rotted manure. If it is a fall set, after cutting the tops off, hoe the dirt up around the stalk three or four inches, and before cold weather sets in, or about the time, hoe the dirt around them clear up to the top, and press around the plants, then cover three or four inches deep with good horse manure from the stable, which should have plenty of straw in it; leave this on all winter. When spring comes in March or April, owing to the earliness of the spring, remove all the manure and level up your bed; put two inches of this manure on top of your rose bed, shaking out all the straw; dig this into the ground with manure fork.

HYBRID PERPETUAL ROSES.

Alfred Colomb—Bright carmine red; clear color, large, deeply built form; exceedingly fine.

American Beauty—The flowers are a deep crimson color, of very large size, and the most fragrant of its class. It is a continuous bloomer. Should be protected in winter.

Anne de Diesbach—Brilliant, crimson, sometimes shaded with bright maroon. A superb garden sort; fragrant; one of the hardiest and best.

Baronne de Bonstetten—Rich, dark red, passing to velvety maroon, highly fragrant. Very double.

Baroness Rothschild—Light pink, cupped form, very symmetrical, without fragrance, very beautiful. A moderate grower only.

Charles Lefebvre—Reddish crimson, velvety and rich; large and full. A splendid rose.

Coquette des Alpes—Stronger in growth and larger in flower than any of the other Hybrid Noisettes. The blooms are of medium size, white slightly tinted with rose on the edges of the petals.

Captain Hayward—Bright crimson carmine, an entirely distinct shade of color. Flowers of perfect form, and very sweet.

Clio—The flower is perfection in form, with fine broad petals; color delicately satiny blush, with a light shading of rosy-pink at the center.

Countess of Oxford—Bright carmine red; very large; fine form.

Duke of Edinburgh—Very bright vermillion; large and full.

Eugenie Verdier—Beautiful silvery pink, tinged with fawn; large, full, finely formed; exquisite buds.

Fisher Holmes—Deep, glowing crimson; large, moderately full, and of fine imbricated form. A superb rose.

Francois Levet—Cherry red; medium size, well-formed; very free bloomer.

Frau Karl Druschki—This new hardy Rose is of German origin, and has won many prizes and made many friends. It is unquestionably the ideal hardy white rose. Its flowers, which are very large, are perfect in form and snow-white in color, with large shell-shaped petals, forming a beautiful flower.



GENERAL CATALOGUE



Francois Michelon—Brilliant carmine; shaded with crimson; very large, full and of fine globular form; very fragrant and a free bloomer, late in June and July.



FRAU KARL DRUSCHKI.

General Jacqueminot—Brilliant crimson, large and very fine, one of the handsomest and most showy roses of this color. Beautiful in the bud; semi-double when full blown. Of fine free growth; a universal favorite.

Gloire Lyonnaise—White, tinted yellow; large, moderately full, resembles a Tea Rose in form and fragrance.



CLOTHILDE SOUPERT.

Gloire de Margottin—Brilliant scarlet; large, semi-double, globular, of good shape; fragrant. The brightest Rose yet raised.

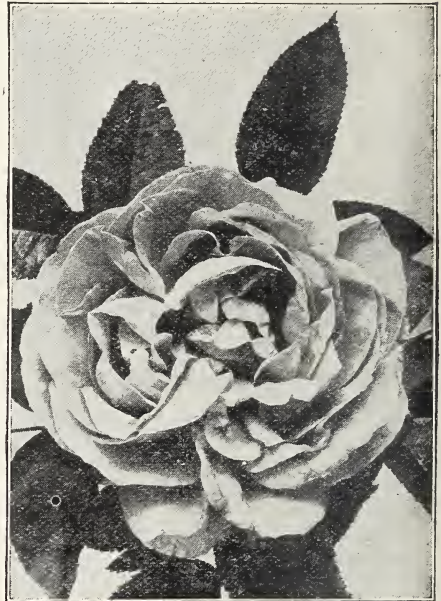
Harrison's Yellow (Austrian)—Bright yellow.

Hugh Dickson (New)—Intense brilliant crimson shaded scarlet, with large, smooth petals, slightly cupped. Vigorous growth.

John Hopper—Rose, with rosy crimson center; splendid form. Standard sort.

Jules Margottin—Light, brilliant crimson; large, full and beautiful.

Lady Helen Stewart—Bright crimson scarlet; large, full and of perfect form, produced on long, stiff stems, highly perfumed.



ANNE DIESBACH.

La France—Delicate silvery rose; very large and full; an almost constant bloomer; a moderate grower; semi-hardy.

Louis Van Houtte—Beautiful maroon; medium size; full, of fine shape; deliciously perfumed.

Madam Caroline Testout—Silvery rose, flowers large, double.

Mabel Morrison—White, sometimes tinged with blush; in the Autumn the edges of the petals are often pink.

Madame Gabriel Luizet—A magnificent pink rose; very large, and possesses a



MADAM GABRIEL LUIZET.

pleasing fragrance. Known as Hardy LaFrance which it resembles.

Madame Plantier (Hybrid China)—Pure white, above medium size. One of the best white roses for hedges and for massing in groups.

Magna Charta—Bright pink, suffused with carmine; very large, full and fragrant, with magnificent foliage. A free bloomer.

Marchioness of Londonderry—A new white rose. Flowers of great size, perfectly formed on stout stems. Color ivory white; free blooming; perfumed.

Margaret Dickson—Of magnificent form; white, with pale flesh center; petals very large, shell shaped, and of great substance; fragrant, a fine variety; foliage very large, dark green.

Marchioness of Lorne—Large, full, cupped shape; buds long and handsome, rich rose color, shaded with vivid carmine.

Marshall P. Wilder—Cherry carmine; continues in bloom long after other varieties are out of flower; the finest H. P. rose yet produced.

Mrs. John Laing—Soft pink; large and of fine form, produced on strong stems; exceedingly fragrant; one of the most valuable varieties for forcing, and flowers continuously in the open ground. The most beautiful rose of recent introduction.

Paul Neyron—Deep rose color; good foliage; by far the largest variety in cultivation.

Persian Yellow (Austrian)—Deep golden yellow; double and fine.

Pierre Notting—Deep velvety crimson. A beautiful globular-shaped flower, distinct and fine.

Prince Camille de Rohan—Deep velvety crimson, large, moderately full. A splendid rose.

Soleil D'Or (Golden Sun)—The flowers are large, full and globular, fragrant; buds conical shaped; color superb, varying from gold and orange-yellow to reddish-gold, shaded with nasturtium red.

Ulrich Brunner—Brilliant cherry red, a very effective color; flowers of fine form and finish, carried well upon the plant; petals of great substance; plant vigorous, hardy and resists mildew. One of the best varieties for forcing and open air culture.

Vick's Caprice—A strong-growing variety, with petals beautifully striped pink and white; a decided novelty.

Victor Verdier—Clear rose, globular, fine form and free bloomer, superb.



CLIMBING ROSES.

These are all hardy, vigorous growers, and bloom freely in June.

Baltimore Belle—Fine white with blush center; very full and double.

Climbing Clothilde Soupert—A strong growing, climbing sport of Clothilde Soupert.



CRIMSON RAMBLER.

Crimson Rambler—As a climbing or running rose it has no equal. The foliage is rich, dark green, the growth rapid and diverse, but its great beauty is when the plant is covered with a profusion of the brightest crimson partly doubled flowers which remain on a long time.

Dawson—A vigorous hardy plant with a tendency to climb high. Flowers are clustered, quite full, of a deep pink color and very fragrant.

Dorothy Perkins—A splendid new, shell-pink Climbing Rose. The flowers are borne in clusters of 30 or 40 and sometimes even 50 to 60. The flowers are large, very double, sweetly scented and of a beautiful shell pink. Hardy.

Hiawatha—A new rambling variety of great beauty, bearing large trusses of single deep crimson flowers, shading to almost white in the center, with rich

golden yellow anthers. A vigorous grower and a decided acquisition to this class.

Lady Gay—The flowers are of a delicate cherry-pink color, which fade to a soft white. The effect of a plant in full bloom, with the combination of the soft white flowers, the cherry-pink buds, and the deep green foliage, is indeed most charming.

Philadelphia Rambler—Improvement on the Crimson Rambler, flowers being larger, much more double and of a lighter crimson color.

Pink Rambler (Euphrosyne)—Possesses the same valuable features found in the White Rambler, with which it differs only in color of flower, which is a brilliant light carmine.

Queen of the Prairie—Bright rose color; large, compact, and globular; a very profuse bloomer. One of the best.

Tausendschon, or Thousand Beauty—The flowers are the most delicate shade of pink ever seen in a Rose, might be described as a white delicately flushed pink changing to rosy-carmine. It gets its name from its many flowers and the variation in colorings.

White Rambler (Thalia)—Flowers are the size of a silver quarter, perfectly filled, very fragrant. Color pure white, sometimes tinged with blush. Blooms in clusters.



DOROTHY PERKINS.



OF NURSERY STOCK



Yellow Rambler (*Aglaia*)—A new climbing rose of the class and habit of the famous crimson rambler; flowers medium size, cup shape, nearly full, sweet scented; blooms in large clusters; color very light yellow.

Wedding Bells—The most floriferous Rose yet produced. The color is white with the upper part of the petals soft-pink.

MOSS ROSES.

Blanche Moreau—Pure white, large; form very perfect; flowers in clusters, heavily massed. A rampant grower.



CRESTED MOSS.

Crested Moss—Deep pink colored buds, surrounded with a mossy fringe and crest. A fragrant, very beautiful Rose.

Pink, Moss—Free bloomer. Pale rose, very beautiful buds; a great favorite.

White Bath—Moderate bloomer. White sometimes tinged with flesh; attractive in bud and open flower. The best white moss.

Gracilis—Free bloomer. Deep pink buds, surrounded with delicate fringe-like moss. The most beautiful of all the moss roses.

EVER-BLOOMING TENDER ROSES.

Bridesmaid—Pink, rich color.

HYBRID TEA ROSES.

American Beauty—A beautiful rose for forcing under glass. Not recommended for out-door culture.

Augustine Guinoiseau—Flowers white, slightly tinged with flesh. Sometimes called White La France.

Balduin (Helen Gould)—Bright glowing carmine; the bud is long and pointed; as sweet as a June rose.

Belle Siebrecht—The flowers are large, full and double; the buds are long and pointed. The color is a brilliant, rich, deep pink.

Captain Christy—Flesh color, deepening toward the center; medium size, full. Ill-shaped flowers are not uncommon, but when the flowers are perfect, there are none more admirable.

Duchess of Albany—A rich, deep, even pink tint; free blooming and fragrant.

Etoile de France—A new French variety; flowers full and double. In color it is a rich, velvety crimson, with vivid cerise-red center.

Gruss an Teplitz—One of the brightest colored Roses grown. Dark rich crimson, changing to bright scarlet, shading to velvety fiery red. Delightfully fragrant.

Kaiserin Augusta Victoria—A superb white Rose, faintly tinted with cream and lemon-yellow. Large, full and double; their fragrance is peculiarly rich and delightful.

Killarney—Its color is a sparkling, brilliant pink. The blooms are large, the buds long and pointed; a Rose of unusual excellence.



LA FRANCE.

La France—Delicate silvery rose, changing to silvery pink; very large; full, of fine globular form; a most constant bloomer.



GENERAL CATALOGUE



Madame Caroline Testout—Flowers large, very double; silvery rose; free bloomer.

Maman Cochet—Color deep rose-pink, inner side of petals silvery-rose; borne on long, stiff stems; very double and exquisite when in bud.

Richmond—A most valuable variety of brilliant crimson-scarlet. Very free-flowering.

White Maman Cochet—Identical with Maman Cochet, except in color; an ideal bedding variety.

Alba—The habit and foliage is similar to the above, but the flowers are pure white, single and as attractive in the bud as when open; quite fragrant.

Conradi Ferdinand Meyer—This variety is a strong, robust grower; with stout stems. The flower is clear silvery rose, very large and double; delightfully fragrant.

Mme. George Bruant—This is a very free-blooming, white variety; a strong grower and blooms continuously; flowers semi-double.

NEW DWARF BEDDING ROSES OR BABY RAMBLERS.

A type of Rose which is becoming very popular for bedding purposes. They form shapely, compact, bushy specimens, about 18 inches high, producing in great profusion from early in the season until severe frost, immense trusses of small flowers.

Crimson Baby Rambler (Mme. Norbert Levasseur)—Crimson flowers similar to the popular Climbing Crimson Rambler.

Pink Baby Rambler (Anchen Muller)—Brilliant, luminous pink; a shade that is always admired

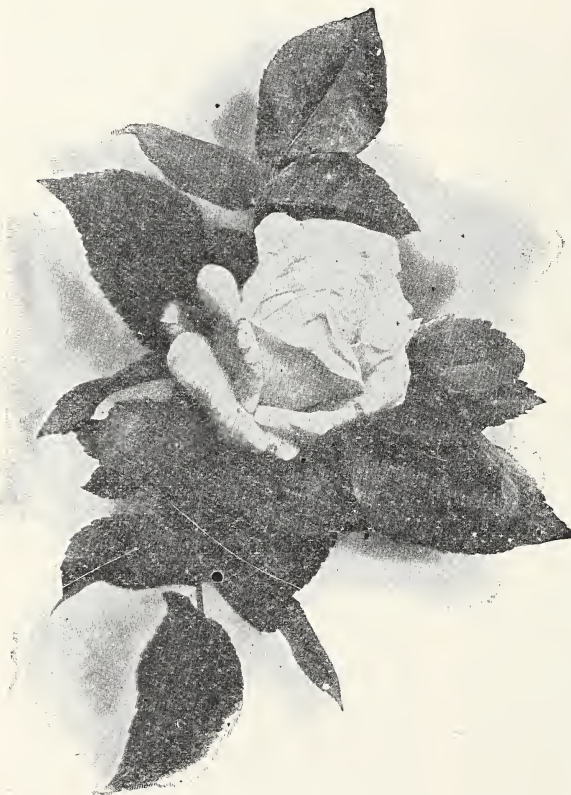
White Baby Rambler (Katherina Zeimet)—Pure white flowers, showing the yellow stamens very prettily, produced in large candelabra-shaped trusses.

WICHURIANA AND ITS HYBRIDS.

Rosa Wichuriana (Memorial Rose)—A beautiful creeping species. It grows very fast, and has small, dark, shining leaves that soon cover the ground thickly. The flowers are small, white, single and fragrant.

Evergreen Gem—Flowers yellow, buff in the bud, opening almost white, of good size, perfectly double; quite fragrant, produced singly on the stem.

Gardenia—The flowers are produced singly on fine stems, are large, and shaped like a Gardenia. In bud form they are bright yellow, but open a rich cream-color and exhale a delightful fragrance.



MARGARET DICKSON

RUGOSA ROSES AND HYBRIDS.

For massing or hedge planting, the Rugosa cannot be excelled. The hybrids are attractive in the garden.

Rosa Rugosa—An upright shrub, attaining 5 to 6 feet in height. Foliage shining dark green, deeply plicated; flowers single, red, fragrant and produced freely from June to December; fruit bright crimson-scarlet.



TRANSPLANTING TREES AND SHRUBS



TREES AS THEY ARE RECEIVED FROM THE NURSERY.

Preparing the Trees.—In removing the tree in the nursery row, no matter how carefully the work is done a portion of the roots are broken and the balance that existed in the tree is destroyed. To make up for this, remove the broken or mutilated portions so as to leave the ends round and smooth. Never plant a tree exactly as it is received from the nursery until it has been thoroughly examined and the necessary pruning done. Proper pruning is determined by the size, form and condition of the tree.

Standard Orchard Trees.—These trees when they leave the nursery vary from five to seven feet in height. The branches that form the head should be cut back to within three or four buds of the base. Prune the roots also as directed above. With older trees, of extra size, shorten all the previous year's growth to within three or four buds of their base; also cut away the unnecessary branches if they are numerous.

Dwarf Trees.—Trees of two or three years' growth and having a number of side branches should be pruned with an eye to the growth and the form desired. Cut the branches into the form of a pyramid by shortening the lower ones about one-half, those in the middle still shorter and the uppermost ones to within three or four buds of their base. The leader should be cut back about one-half. Closer pruning is needed on trees that have been dried or injured by exposure.

Yearling Trees Intended for Pyramids.—Cut away the smallest side branches if there are any, keeping the strongest and best placed. Those having no side branches should be cut back far enough to assure

the production of branches within a foot of the ground. A strong yearling about four to six feet in height may be cut back about half, weaker ones more than that. Cut too low rather than not low enough.

Preparing the Soil.—Fruit trees flourish best in a naturally dry soil; too much moisture retards growth. Plow at least twice, following the common plow the second time with the subsoil plow. Fresh lands will not need manure or fertilizers but lands exhausted through constant cropping should be fertilized either by turning under clover or well decomposed manure or compost. Land that is in good condition for wheat, corn or potatoes will be well adapted to fruit trees.

Planting.—Dig the hole larger than is necessary to admit all the roots in their natural position, keeping the surface soil and subsoil separate. Have the tree held in an upright position while the earth is shovelled in, the best soil being sifted in among the roots. Make sure that all the roots come in contact with the soil. When the earth is nearly filled in, pour in water to wash the soil around the roots; then fill up the remainder and tread down gently with the foot. It is only necessary to use water in dry weather.

Don't plant too deep; the trees should stand about the way they did in the nursery. Trees on dwarf stock should be planted so that all the stock is below the ground, only the graft appearing above the surface.

Staking.—Extra tall trees or those much exposed to the wind should be supported by a stake. Take care that no chafing of the tender bark occurs.

Mulching.—After the tree is set, cover the ground within a radius of two to three feet with five or six inches of manure or litter. This mulching is necessary in dry ground and is good practice in spring and fall planting.



PAIRS OF TREES SHOWING THEM AS RECEIVED FROM THE NURSERY AND AFTER BEING PRUNED FOR PLANTING. 1 KIEFFER PEAR; 2 PEACH; 3 DWARF DUCHESS; 4 QUINCE.



GENERAL CATALOGUE



Pruning.—All fruit trees require more or less pruning from year to year. While the tree is young the head should be formed, and unnecessary branches taken out. The best time to prune is late in the winter or in early spring, when no more severe weather is anticipated.

Carrying Stock through the Winter.—The practice of procuring supplies of trees in the fall is becoming more and more general. It is a more favorable time than spring, because the stock has just entered into dormant condition. Even when fall planting is not desirable by reason of severity of the climate, the stock may be procured in the fall, and thus be on hand ready for the opportune moment in the spring.

To insure success you have only to get the trees before freezing weather, and bury them in the following manner: Choose a dry spot where no water will stand during the winter, with no grass near it to invite mice. Dig a trench, throwing out enough dirt to admit one layer of roots below the surface, and place the trees in it, inclined at an angle of forty-five degrees or more. Widen the trench, throwing the soil among the roots in position, place another layer in the trench, reclining the tops on the others, and so on until all are in the trench; then finish by throwing up more soil until the tips of the trees are nearly or quite covered. It is also well to bank up the earth around the sides to insure more thorough protection. The exposed tops should then be covered with pine boughs, which insures them against any possibility of injury. Care should be taken to fill solid all the interstices among the roots. Too much care in doing this cannot be insisted upon, as every root which is not in close contact with the soil is sure to be killed. In the spring the trees will be on hand for transplanting at the earliest moment possible to do the work.

Care of Stock Injured by Frost or Long Exposure.—Place the unopened packages in a cellar or any cool place that is free from frost. Leave them there until the stock is thawed out. It can then be unpacked and planted or "heeled in."

If dried out from long exposure, bury in the ground, or soak in water from 12 to 24 hours. Prune such stock more closely than ordinarily.

SPRAYING

Once a plant is attacked by disease it cannot be cured in the same sense that an animal can be. Spraying aims not to cure diseased plants but to protect them from two classes of enemies, insects and fungus (fungi, plural). The purpose of spraying is then to render plants immune against the insects or fungi to be feared. The spray mixture must be injurious to the enemies it is designed to forestall.

There are three main considerations in spraying: An effective spraying machine, one adapted to the character of the work; a mixture that will defeat the enemy; and a knowledge of the proper time to spray. The first can be secured through the manufacturers whose advertisements appear in fruit-growing magazines, the other two are explained in detail in the following paragraphs.

The principle underlying spraying is to cover the foliage or wood of plants with a medium in which the fungus will not grow, in the case of the plant parasite, or one which will poison the leaf-eating insect or kill the sucking insect by destroying its body. Both diseases and destructive insects work rapidly and a delay of a few days may make the remedy ineffective. Of all factors making for success in spraying promptness is the most important.

We advise careful attention to these five points: (1) Know the enemy you are attacking; (2) study the remedy, its principles—how it acts; (3) secure the proper appliance for using the remedy; (4) prepare the spray mixture carefully; (5) apply it thoroughly.

AMMONIACAL COPPER CARBONATE

Copper Carbonate.....	5 ounces
Ammonia	2 quarts
Water	50 gallons

Prepare and keep in large bottles.

ARSENITE OF LEAD

Lead Arsenite.....	1 pound
Water	150 gallons

ARSENITE OF LIME

This is much cheaper than Paris Green and equally efficient. It will not burn the tenderest foliage.

Formula (for 800 gallons)

Arsenic, White	2 pounds
Sal Soda	8 pounds
Water	2 gallons

Boil all together for 15 minutes or as long as it takes the arsenic to dissolve. The result is a concentrated solution that can be diluted as needed. One pint together with 2 pounds of lime added to a barrel of water makes an insecticide as good as Paris Green.

BORDEAUX MIXTURE

(Standard formula)

Copper sulphate (Blue Vitriol).....	4 pounds
Lime (fresh)	4 pounds
Water	50 gallons

Use about half of the water to dissolve the Copper sulphate. Do this by suspending the crystals near the surface in a bag of coarse material. Put the lime in another vessel, adding small amounts of water from time to time until the lime is thoroughly slaked. Then add the remainder of the fifty gallons (about 25 will have been used for the copper sulphate, 1 or 2 for slaking the lime; use the remainder—25 or 24 gallons—for diluting lime).

Have a large vessel capable of holding fifty gallons and into this pour at the same time, the lime solution and the copper sulphate solution. The spray tank or barrel may be used for this purpose. The best mixture is made by straining the solutions as they are poured. This can be done either with a coarse cloth or fine-meshed wire screen.

COPPER SULPHATE SOLUTION

Copper sulphate.....	1 pound
Water	25 gallons

Since this is injurious to foliage it should only be used before the foliage appears. It acts as a general germicide and disinfectant.

HELLEBORE

White Hellebore, fresh	1 ounce
Water	3 gallons



OF NURSERY STOCK



KEROSENE EMULSION

Hard Soap ½ pound
 Water, boiling 1 gallon
 Kerosene 2 gallons
 First dissolve the soap in hot water, add the kerosene and stir or churn thoroughly until the mixture becomes white and creamy. Dilute this solution four times for San Jose; twenty times for Aphis.

LIME-SULPHUR

The lime-sulphur solution seems destined to take the place of the Bordeaux mixture and many other copper sprays that have been in use a long time.

(For the best information about Lime-Sulphur send for Penn. Expt. Sta. Bulletin 92, July 1909; or their latest bulletin on the subject.)

Lime, fresh 15-20 pounds
 Sulphur, flowers 15 pounds
 Water 50 gallons

Place lime in an iron kettle over fire and slake with about 8-10 gallons of water. Add the sulphur and salt then thoroughly. Boil the mixture for from forty to sixty minutes and stir constantly. Do not add any more water than is needed to keep the mixture from sticking and burning. Strain the mixture and add enough hot water to make 50 gallons. Always apply hot! After the mixture has been allowed to cool, crystals form which can only be dissolved by heating.

Before using Lime-Sulphur we advise a thorough understanding of it. This can be obtained from the bulletins of numerous Experiment Stations and from fruit-growing magazines.

PARIS GREEN SOLUTION

Mix 1 pound of Paris Green in 200 gallons of water; stir well and keep well stirred while it is being applied.

SOLUBLE OILS

These require only the addition of water before applying. Use only those recommended by good authority. They take the place of Lime-Sulphur and have not its disadvantages.

TOBACCO SOLUTIONS

These can be prepared by boiling tobacco stems in water, two gallons to each pound of stems. Good for sucking insects.

Commercial solutions can be obtained. Use according to directions accompanying them.

GRAFTING WAX

A good grafting wax is made as follows: Resin, 4 parts; Bees' Wax, 2 parts; Tallow, 1 part. All by weight. This material should be carefully melted together, mixed, and when hot, poured into a pail of cold water. As soon as it is hard enough to handle, the lump should be pulled until it becomes light colored. In doing this the hands should be greased, care being taken not to use too much grease. When first taken from the water, the mixture will be a spongy mass. Unless the resin is thoroughly melted, the wax will be lumpy.

GOVERNMENT PUBLICATIONS

Write the "Superintendent of Documents, Washington, D. C." for a list of the publications issued by the Government. The prices and directions for securing any of the publications listed are given therein.

COLLEGE AND EXPERIMENT STATION LITERATURE

Write the Mailing Clerk or Extension Department of any agricultural college for their bulletin on the subject desired and it will be sent, if still in print. The same holds true of Experiment Stations which are often in connection with the colleges.

TABLE OF DISTANCES FOR PLANTING TREES

Apples. Standard, 30 to 40 feet each way.	Nectarines. 16 to 18 ft. each way.
Apples. Dwarf, 15 ft. each way.	Quinces. 12 ft. each way.
Pears. Standard, 20 to 25 ft. each way.	Currants. 3 to 4 ft. each way.
Pears. Dwarf, 15 ft. each way.	Gooseberries. 3 to 4 ft. each way.
Cherries. 18 to 20 ft. each way.	Raspberries. 3 to 4 ft. each way.
Plums. 16 to 18 ft. each way.	Blackberries. 6 to 8 ft. each way.
Peaches. 16 to 18 ft. each way.	Strawberries. 1½ ft. to 3 ft. each way.
Apricots. 16 to 18 ft. each way.	Grapes. 8 to 10 ft. each way.

NUMBER OF TREES OR PLANTS FOR AN ACRE OF GROUND, SET AT REGULAR DISTANCES APART

Distance Apart.	No. of Plants	Distance Apart.	No. of Plants	Distance Apart.	No. of Plants
5 inches by 3 inches	696,960	4 feet by 3 feet	3,630	13 feet by 13 feet	257
4 inches by 4 inches	392,040	4 feet by 4 feet	2,722	14 feet by 14 feet	222
3 inches by 4 inches	174,240	4½ feet by 4½ feet	2,151	15 feet by 15 feet	193
9 inches by 9 inches	77,440	5 feet by 1 foot	8,712	16 feet by 16 feet	170
1 foot by 1 foot	43,560	5 feet by 2 feet	4,356	17 feet by 17 feet	150
1½ feet by 1½ feet	15,370	5 feet by 3 feet	2,904	18 feet by 18 feet	134
2 feet by 1 foot	21,780	5 feet by 4 feet	2,178	19 feet by 19 feet	120
2 feet by 2 feet	10,860	5 feet by 5 feet	1,742	25 feet by 25 feet	69
2½ feet by 2½ feet	6,920	5½ feet by 5½ feet	1,417	30 feet by 30 feet	48
3 feet by 1 foot	14,520	6 feet by 6 feet	1,210	33 feet by 33 feet	40
3 feet by 2 feet	7,260	7 feet by 7 feet	881	40 feet by 40 feet	27
3 feet by 3 feet	4,840	8 feet by 8 feet	680	50 feet by 50 feet	17
3½ feet by 3½ feet	3,555	10 feet by 10 feet	435	60 feet by 60 feet	12
4 feet by 1 foot	10,899	12 feet by 12 feet	302	65 feet by 65 feet	10
4 feet by 2 feet	5,445				

To estimate the number of plants required for an acre at any given distance, multiply the distance between the rows by the distance between the plants, which will give the number of square feet allotted to each plant, and divide the number of square feet in an acre (43,560) by this number and the quotient will be the number of plants required.



GENERAL CATALOGUE



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SPRAY CALENDAR

Prepared specially for this catalogue.

PLANT	INSECTS OR DISEASES	REMEDY	FIRST APPLICATION	SECOND APPLICATION	THIRD APPLICATION	REMARKS
	Insects or Diseases					
	Blackspot Canker	Bordeaux, double strength	Immediately after leaves fall	Three weeks later		
	Bud Moth	Lime-Sulphur	Just as buds are swelling	Arsenate of lead twice as buds open, once after petals fall	Two weeks later	A fourth application will pay. If bitter rot is present, a fifth application should be made
	† Codling Moth and Scab	Paris Green, 1 lb. to 100 gallons of water. Arsenate of Lead	Within one week after blossoms fall	Weak or ten days.	Two weeks later	
	Curculio. See Plum		After blossoms fall	Repeat in ten days	10 days later	
	Plathead Borer	Dig out worms in fall and spring with knife.	During growing season whitewash base of trunk or apply Carbon Bisulphide			
	Green Aphis	Lime-Sulphur	When the leaves are off the tree			
	San Jose Scale	Lime-Sulphur or soluble oils as recommended	Early in November			
	° Twig Borer	Lime-Sulphur	When buds swell in spring	Arsenate of lead in summer when the worms appear		
	° Woolly Aphis	Soluble oils as recommended	Use when young first hatch in early spring	Repeat in ten days	For summer treatment, use 10 per cent kerosene or dilute Lime-Sulphur	
	° Kerene emulsion, 1 part to 12 parts water					
	* Black Aphis	Kerosene emulsion or whale-oil soap. Soluble oils as recommended.	When the insects appear and before they curl the leaves	Bordeaux when fruit has set	Just as fruit begins to ripen, with copper acetate, 8 oz. to 50 gals. water. Before first spraying, gather and burn unmanured fruits. Thin green fruit will they are separate. Prune trees so as to admit much sunlight.	
	CHERRY †*	Bordeaux	just before blossoms open	After the blossoms fall		Watch the plants closely in spring and begin spraying as soon as worms are discovered. Other curant pests removed by cutting out and burning infested stems.
	†	Arsenate of lead	Paris Green or dust with lime, road dust or ashes	When the insects appear		Fourth application is needed. Use arsenate of lead in flea beetles are present. Best to add arsenate of lead for any biting insects
	†	10 per cent. Kerosene emulsion	Early before leaves roll	Ten days later, Hellebore for worms; quassia and tobacco for Aphis. Repeat second	Repeat at intervals of 10 days till fruit is picked	
	GOOSEBERRY	Potassium sulphide, 1 oz. to 2 gal water	Just as buds burst			
	GRAPE	Mildew	When buds first swell	Repeat in ten days	Repeat in ten days	
	PEACH	Mildew and Rot	Just before the buds open	After blossoms fall	Repeat in two weeks	
		Leaf, Curl and Rot	Before buds burst			
		Mildew				
		Peach Tree Borer	Dig out worms in fall and spring with a knife.	During growing season whitewash base of trunk.		
	PEAR	Blistar Mite	When leaves are off tree	Add more soap than the formula calls for. Repeat 10 to 12 days later if necessary	While the last blossoms are falling. Use a vermoral nozzle. Do not drench the trees	
		Cottony Scale	When insects become cottony (May)			
		Scab	just before the blossoms open			
		Blight and Curculio	After blossoms fall	Repeat in ten days	10 days later recommended solution if Aphis is present	
	PLUM	Arsenate of lead, 1 1/2 lbs. to 50 gallons water				
	RASPBERRY	Bordeaux or Lime-Sulphur	When buds begin to swell			
	BLACKBERRY					
	AND DEWBERRY	Fungous Diseases				

* Same treatment for Peach.

† Same treatment for Plum.

† Same treatment for Pear

° Same treatment for Cherry.