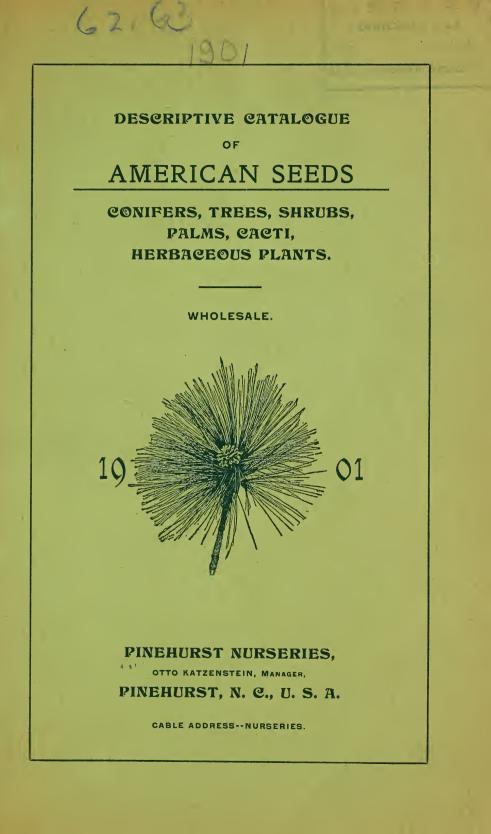
Historic, Archive Document

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



PLEASE NOTE:

TERMS: Cash with orders or satisfactory references from unknown correspondents. We shall allow a discount of 5 per cent. for cash with order, or for remittances within ten days (thirty days for our foreign patrons) from date of invoice. All accounts will become due (and subject to draft) ninety days from date of invoice, where no special agreements have been made.

FOREIGN REMITTANCES should be sent by International Money Orders payable at Aberdeen, N. C., or by draft on a New York bank. We request that payments not be made in foreign postage stamps or individual foreign checks.

EARLY ORDERS: As we do not sell any old seeds and do not keep in stock much more than we can be reasonably sure to sell during the present season, it is imperative that orders, especially for larger quantities, should reach us as early as possible. All orders will be accepted subject to crop accidents and limits of crops.

SHIPPING INSTRUCTIONS: Precise instructions as to kind of conveyance (mail, express or freight) are desired, or we shall ship at our own discretion. All goods travel at risk of consignee. Express companies allow 20 per cent. reduction from regular rates on shipments of seeds and plants.

POSTAGE PREPAID: We prepay postage on seeds in packages to all parts of the world, but charge postage for seeds in bulk. Domestic and foreign postage is 1 cent for 2 ounces. Limit of weight in domestic mails is 4 pounds, in foreign mails 12¹/₂ ounces.

PARCELS POST packages are admissable now to Germany and several other countries. The rates are 12 cents per pound or fraction thereof, and limit of weight is 11 pounds.

FOREIGN SHIPMENTS: If not otherwise instructed we shall ship through our forwarding agents, Messrs. C. B. Richard & Co., 61 Broadway, New York, who will effect insurance if desired.

RESPONSIBILITY: While we exercise greatest care to have all our seeds, bulbs, etc., pure and reliable, they are sold without warranty and without any responsibility, expressed or implied, in respect to the crop. If our goods are not accepted on these terms, they must be returned at once, and money which has been paid us for them will be refunded.

HOW TO MAKE TREE SEEDS GROW: We have prepared some short directions which we shall be pleased to send free upon application, and we are glad at any time to give any further information.

An exchange of catalogues, seed lists, botanical lists, etc., is desired.

THIS CATALOGUE CANCELS OUR SEED LIST FOR 1900.

JAMES W. TUFTS, Boston, Mass. OTTO KATZENSTEIN,

MANAGER.

ABIES ARIZONICA, Merr.

We have just been informed by our collector, Dr. C. A. Purpus, that there is a fair prospect for a crop of seed of the

SILVER CORK FIR

this year. We take great pleasure, therefore, to offer the seed of this beautiful new species for the very first time and shall book orders subject to the ultimate outcome of crop and to be filled in strict rotation, at

\$ 1.00 per trade packet,2.50 per ounce,25.00 per pound,

including delivery to any part of the world.

As this Fir is positively hardy, we cannot recommend it too highly, and every one who once has seen it will remain its staunch admirer.

We send with the greatest pleasure samples of the bark to any address and give also any further information.

ABIES BRACTEATA, Nutt.

While generally this Fir produces quite faulty seed, the crop of 1901 will be a remarkably good one, in fact the best for the last 20 years. This, therefore, is the chance of a life-time to make a successful sowing, and we solicit your orders at

\$.55 per ounce,
8.00 per pound,
75.00 per 10 pounds net.

Awaiting the pleasure of your commands for seed of these and other kinds you may need, we remain, Very truly yours,

PINEHURST NURSERIES.

A POST OF A POST

CONIFERS.

Half-ounce	at ounce rates; quarter-pound at pound rates; two and pound rates. ‡ Generally hardy. Quotations on large lots by correspondence.	one-ha	alf pound	ls at ten
	Quotations on large lots by correspondence.	0z.	Lb.	10 Lbs.
ABIES.	See also under Picea and Tsuga.	0z.	LD.	10 1.05.
‡ ''	AMABILIS, Forb.	.40	3.50	
+	Very ornamental. True amabilis, not A. mag- nifica.			
‡ ''	BALSAMEA, Mill. Balsam Fir	.20	1.25	10.00
"	BRACTEATA, Nutt. Santa Lucia Fir Handsome stiffly-pyramidal tree.	.55	8.00	
‡ "	CONCOLOR, Lindl. and Gord. California			
	Silver Fir	.25	2.00	17.50
	Noted ornamental tree with grayish bark and light green foliage.			
"	DOUGLASI. See Pseudotsuga.			
+ ((+	FRASERI, L. She Balsam	.35	3.00	
1 "	GRANDIS, Lindl. Great Oregon Silver			
	Fir	.30	2.25	
	Slender pyramidal tree, long dark-green glossy needles, very ornamental.			
‡ "	MAGNIFICA, Murr. Red Fir	.45	4.00	35.00
+ ‹‹	MAGNIFICA SHASTENSIS, Lemm	.50	5.00	
+	Very rare form, bracts are very prominent.	.00	0.00	
"	MENZIESI. See Picea sitchensis.			
66	MERTENSIANA. See Tsuga mertensiana.			
± "	NOBILIS. Noble Fir, Tuck-Tuck-	.25	2.50	
	With dark blue-green needles, very fine.			
+ "	SUBALPINA, Eng	.75	6.00	
	large and bluish green.			
66	WILLIAMSONI. See Tsuga pattoniana.			
‡Снама	ECYPARIS LAWSONIANA, Parl. Lawson's			
	Cypress	.35	2.50	
‡"'	NUTKAENSIS, Spach. Sitka Cypress	1.00	12.50	
+ 66	Crop will be very short this year.	1 -	1.05	
+	SPHAEROIDEA, Spach. White Cedar	.15	1.35	
CUPRE ((SSUS GOVENIANA, Gord.	.30	2.50	
"	GUADALUPENSIS, Wats.	.30	2.75	
"	LAWSONIANA. See Chamaecyparis l	05	0.00	
"	MACNABIANA, Murr.	.25	2.00	
	MACROCARPA, Hartw.	.10	.90	
	THUYOIDES. See Chamaecyparis sphae- roidea.			
	None of the true Cupressus are quite hardy.			

			Oz.	Lb.	10 Lbs.
ţJτ	UNIPE	ERUS PACHYPHLOEA, Torr. Collected at 7000' elevation, hardy and well adapted to stiff soils and exposed sites, very ornamentally covered with blue blooms. Rare.	.25	2.00	
‡	"	VIRGINIANA, L. Red Cedar	.10	.50	4.00
L_1	IBOCE	DRUS DECURRENS, Torr. California White			
		Cedar Very beautiful, quick-growing tree.	.25	3.00	
P	ICEA.	See also under Abies.			
‡	"	ALBA, Lk. White Spruce	.45	4.50	
‡ ∔	66	ENGELMANNI, Eng. Engelmann's Spruce	.60	4.50	40.00
+	"	PUNGENS, Eng. Colorado Blue Spruce Superb silvery foliage.	.40	4.00	35.00
‡_	66	SITCHENSIS, Tr. & Mey. Tideland Spruce	.30		30.00
		AUSTRALIS, Mx. Long-leaved Pine Most valuable forest tree of the South. Needles 1-2' long. Young plants are especially hand- some and are much used now for Christmas decorations. Should prove very valuable as potted plants for decorative purposes.	.30	2.00	18.00
‡	"	BANKSIANA, Lamb. Gray Pine	.75	8.00	70.00
	"	BENTHAMIANA. See P. ponderosa.			
‡	"	CONTORTA, Dougl. Scrub Pine	.80	7.00	
	66	COULTERI, Don.	.25	2.50	
4	"	EDULIS, Eng.	.25	1.75	
+	6 6 6 6	FLEXILIS, James. Western White Pine FREMONTIANA. See P. monophylla.	.50	4.00	
	"	INSIGNIS, Dougl. Monterey Pine Very handsome tree, bright green needles.	.30	2.00	
‡	66	JEFFREYI, Murr. Bull Pine	.40	3.00	
	66	LAMBERTIANA, Dougl. Sugar Pine Largest pine known, but not quite hardy.	.25	1.75	
	"	MITIS, Mx. Southern Short-leaved Pine- Very valuable timber pine.	.30		20.00
	66	MONOPHYLLA, Torr. & Frem. Nut Pine	.30	2.50	
‡	"	MONTICOLA, Dougl. Western White Pine Resembles Pinus strobus, but timber is inferior.	.60	5.00	
‡	66	MURICATA, Don. Obispo Pine	.50	3.50	
* +	"	MURRAYANA, Balf. Tamarack Pine Prefers low ground and damp soil.	.75	6.50	60.00
	66	PALUSTRIS. See P. australis.			•
+	66	PARRYANA, Eng. (LLAVEANA, Torr.) Nut Pine	.50	4.00	
, ‡ ,	66	PONDEROSA, Dougl. Bull Pine Luxuriant grower of great ornamental value. Prefers dry sites.	.40	3.00	
	2	PINEH	URST	NURS	FRIFS

 $\mathbf{2}$

PINEHURST NURSERIES

		Oz.	Lb. 10 Lbs.
	RIGIDA, Mill. <i>Pitch Pine</i>	.30	2.50 22.50
"	SABINIANA, Dougl. Digger Pine Hardy in sheltered positions.	.25	1.25
÷ "'	STROBUS, L. White Pine The crop will be very short this year. Early orders are imperative, especially for larger lots.	.25	1.50 13.50
	TAEDA, L. Old Field Pine, Rosemary Pine Handsome, very symmetrically growing South- ern conifer.	.30	2.00 18.00
"	TORREYANA, Parry. Torrey's Pine	.25	$2.25 \ 20.00$
‡ ''	TUBERCULATA, Gord. (CALIFORNICA.) <i>Knob Cone Pine</i> Rare and interesting. Not absolutely hardy.	.50	3.50
[‡] Pseudo	DTSUGA DOUGLASI, Carr. Douglas Fir Crop quite minimal this year.	.25	2.25 20.00
‡Sequoi.	A GIGANTEA, Torr. Big Tree	.75	5.00
"	SEMPERVIRENS, Endl. (TAXODIUM.) Red Wood	.50	3.00
‡Taxodi	UM DISTICHUM, Rich. Swamp Cypress	.25	1.75
	In shell Deciduous conifer yielding excellent timber. c.	.10	.50
TAXUS	BREVIFOLIA, Nutt. Western Yew	.75	7.00
THUYA	CRAIGIANA. See Libocedrus decurrens.		
‡ "'	GIGANTEA, Nutt. (MENZIESI.) Red		
+ 66	Cedar	.45	3.50
+	OCCIDENTALIS, L. American Arbor Vitae	.25	1.50 12.00
TORRE	YA CALIFORNICA, Torr. Californian Nut- meg	.20	1.25
	Seeds lay over one year.	•20	1.20
	CANADENSIS, Carr. Hemlock Spruce	.40	5.00
‡ "	CAROLINIANA, Eng. Carolina Hemlock	.65	6.50
+ ((MERTENSIANA, Carr. Hemlock Spruce	.75	6.00
‡ "	PATTONIANA, Eng.	.60	5.00

CONES

Of quite a number of conifers can be supplied for botanical collections at reasonable rates which will gladly be given upon applications.

TREES AND SHRUBS.

Ha lf-ounce at ounce rates; quarter-pound at pound rates; two and one-half pounds at ten pound rates. e, evergreen; d, deciduous; t, tree; s, shrub; v, vine.

Note: et, for instance, means evergreen tree; dv, deciduous vine; c, clean seed; d. b., dried berries or seed in natural shell.

Quotations on large lots by correspondence.

Oz. Lb. 10 Lbs.

			Oz.	Lb.	10 Lbs.
dt	ACEI	R CIRCINATUM, Pursh. Vine Maple	.15	1.75	
ds	"	DASYCARPUM, Ehr. Silver or Soft Maple	.15	1.25	
d s	66	GLABRUM, Torr. Western Dwarf Maple	.40	1.50	
dt	"	MACROPHYLLUM, Pursh. Broad leaved			
		Maple	.10	.75	
		Enormous leaves. Not entirely hardy.			
dt	66	NEGUNDO, L. (NEGUNDO ACEROIDES.) Box Elder100 lbs., \$16.00	.10	.35	3.00
dt	66	PENNSYLVANICUM, L. Moosewood	.15	1.50	
dt	"	RUBRUM. <i>Red Maple</i> One of the earliest blooming maples and very ornamental.	.15	1.25	
dt	"	SACCHARINUM, Waug. Sugar Maple Yields but about 20-50 per cent. of growing seed. Ripens in September.	.15	.75	7.00
ds	"	SPICATUM, Lam. Mountain Maple	.25	1.50	
		Seeds of all maples are very perishable, and must be sown at once upon receipt.			
đt	ATLA	NTUS GLANDULOSA. Desf. Tree of Heaven	.10	.35	3.00
at		Young plants not entirely hardy. Very rapid grower. Male plants exhale disagreeable odor during inflorescence.		100	0.00
dt	AESC	ULUS FLAVA, Ait. (OCTANDRA, Marsh.)	.10	.40	3.50
dt	"	GLABRA, Willd. American Horse Chestnut Splendid tree for street planting.	.10	.35	3.00
dt	ALBE	ZZIA JULIBRISSIN, DURTAZ. Mimosa	.10	.65	
dt	ALNU	US OREGANA, NUTT. (RUBRA, Bong.)	.75	7.50	
ds	ALTH	MAEA. Rose of Sharon	.10	.65	
ds	AMEI	LANCHIER ALNIFOLIA, Nutt.	.35	2.50	
ds		CANADENSIS, Med. Common Shad Bush	.20	1.25	
ds	"	UTAHENSIS, Koehne	.25	3.00	
		Rare. Adapted to dry, rocky soil.			
		RPHA FRUTICOSA, L. Bastard Indigo	.35		
ds	"	MICROPHYLLA, Pursh. (A. NANA, Nutt.) Lead Plant	.80	7.00	
d-	A 1177	Rare shrub of great beauty.			
uv	Амр	ELOPSIS QUINQUEFOLIA, Mx. Virginia Creeper	.15	.75	6.00
	4	PINEHU	URST	NURSH	ERIES

		Oz.	Lb.	10 Lbs.
dv	AMPELOPSIS VEITCHII, Hort. Japan Creeper,			
	Boston Ivyd. b.	.20	1.50	
dv		.35	3.00	
	ANDROMEDA ARBOREA. See Oxydendrum.			
	CATESBAEL. SEE LEUCOMOC. C.	10	45	4.00
ds	"MARIANA, L. (PIERIS.) Staggerbush d. b. Very early and handsome bloomer. c.	.10 .20	$.45 \\ .85$	$\begin{array}{c} 4.00\\ 7.50 \end{array}$
		.20.10	.05 .45	4.00
es	A most beautiful medium-sized shrub with	.10.20	.45	$\frac{4.00}{7.50}$
	handsome flowers. <i>Introduced by us.</i> c.			1.00
dt	ARBUTUS MENZIESI, Pursh. Madrone Tree	.25	1.50	
es	ARCTOSTAPHYLOS GLAUCA, Lindl. Great-ber-			
0.0	ried Manzanita	.15	1.25	
es	"PUNGENS, H. B. & K. Erect Manzanita	.15	1.25	
es	" TOMENTOSA, Dougl. Hardiest Manzanita	.20	2.00	
es	" UVA-URSI, Spreng. Trailing Bearberry	.35	3.00	
ds		.30	2.00	
34	Not hardy.	10	4.5	1.00
dt	ASIMINA TRILOBA, Dunal. Papaw	.10	.45	4.00
ds	ATRIPLEX CANESCENS, James	.45	3.50	
ds	AZALEA VASEYI, Rehderd. b.	.45	4.50	
	Rare and beautifully blooming shrub.			
ds		.25	2.00	
	AZALEA. See also Rhododendron.	10	0.00	
ds	BERBERIS REPENS, Lindl. Oregon Grape_d. b. Nearly evergreen and very useful trailer.	.40	3.00	
ds				
	<i>berry</i> d. b.	.10	.70	6.00
ds	" VULGARIS, L. Common Barberry_d. b.	.10	1.00	
dt	BETULA LENTA, L. Black or Sweet Birch	.20	1.50	
dt		.15	1.50	
dt		.20	2.00	
dt		.15	1.50	
dt		.15	1.50	
ds		6.00		
ds		6.00		
_	BIGNONIA CAPREOLATA, L. Cross Vinec.	.25	1.50	
ds		10	50	4.00
de	<i>berry</i> d. b. 5 CALYCANTHUS LAEVIGATUS, Willd. (C.	.10	.50	4.00
ue	GLAUCUS.) Sweet Shrub	.10	.65	6.00
	Generally offered as C. floridus. Crop is very			
	short this season.			

	Oz.	Lb.	10 Lbs.
ds CALYCANTHUS OCCIDENTALIS, Hook. & Arnh. Western Sweet Shrubd. b.	.20	2.25	
dt CARPINUS CAROLINIANA, Walt. (AMERICANA.) Waterbeech or American Hornbeam_c.	.10	.50	4.00
dt CARYA (HICORIA) ALBA, Nutt. Shellbark Hickory100 lbs., \$11.00		.25	2.00
dt " AMARA, Nutt. Swamp Hickory 100 lbs., \$8.00		.20	1.75
dt CASTANEA PUMILA, Mill. Chinquapinc. Fruits are very perishable and cannot be kept long.	.10	.40	3.50
dt CASTANOPSIS CHRYSOPHYLLA, DC. Oregon Chinquapin Rare, niagnificent, hardy tree. Extent of crop somewhat doubtful as yet. Fruits are perish- able.	.25	2.50	
dt CATALPA BIGNONIOIDES, Walt. Catalpa	.10	.75	6.00
dt "HYBRIDA, Spaeth. Teas Japan Hybrids	.10	.75	6.00
dt " KAEMPFERI, S. & Z. Japanese Catalpa	.10	.70	6.50
ds " SPECIOSA, Warder. Western Catalpa Very hardy. Much recommended at present as very profitable forest tree. Rapid grower.	.10	.50	4.50
ds CEANOTHUS AMERICANUS, L. New Jer- d. b. sey Tea, Red Shankc. Low shrub with dense panicles of fine white flowers.	.10 .15	$.45 \\ 1.00$	4.00 8.00
ds " DIVARICATUS, Nutt.	.50	5.00	
ds " FENDLERI, Gr. Half-evergreen and perfectly hardy. Well adapted for covering dry sandy banks. Very graceful habit. Rare.	.35	2.00	
ds " integerrimus, H. & A	.50	5.00	
ds " prostratus, Bent	1.50		
ds " THYRSIFOLIUS, Eschsch. Blue Myrtle	.50	5.00	
ds '' VELUTINUS, Dougl	.65	6.50	
dv CELASTRUS SCANDENS, L. Bitter Sweet d. b.	.10	1.00	
dt CELTIS OCCIDENTALIS, L. Sugar Berry Seed often lays over one or two years.	.10	.70	
dt " occidentalis, Var. pumila, Gray	.20	1.50	
ds CEPHALANTHUS OCCIDENTALIS, L. Button Bush	.10	.75	6.00
dt CERCIS CANADENSIS, L. Judas Tree, Red	.20	1.00	
BudC. dt " occidentalis, Torr	.20	3.50	
ut OCCIDENTALIS, TOIL.	.00	0.00	

PINEHURST NURSERIES



See page 7.



10 Lbs. Oz. Lb ds CERCOCARPUS PARVIFOLIUS, Nutt. Mountain .80 7.50Mahogany _____ Hardy, nearly evergreen. White flowers have appearence of ostrich feathers. Seed often lays over one year. .80 ds CHAMAEBATIARIA MILLIFOLIUM, Max..... From the eastern Sierra Nevada. A truly grand shrub with graceful foliage and numerous spikes of white flowers, which are yellow or brownish at base. Collected at 8000' elevation. Very rare. ds CHIONANTHUS VIRGINICA, L. Old Man's d. b. .10.40 3.50.80 7.00.15Beard, White Fringe _____c. dv CLEMATIS LIGUSTICIFOLIA, Nutt. _____ .757.50VERTICILLARIS, DC. _____ 1.50 12.00 " dv VIRGINIANA, L. Virgin's Bower " .353.00dv " See also under herbaceous seeds. ds CLETHRA ALNIFOLIA, L. Sweet Pepper-.10 .757.00bushd. b. dt CLIFTONIA LIGUSTRINA, Banks. Ironwood d. b. .10 .60 5.00Rare. Fairly evergreen. Fine drooping c. flowers and handsomely colored autumn .20 1.008.50foliage. Not entirely hardy. .85 ds Cornus alternifolia, L. f.____d. b. .1566 AMOMUM, Mill. _____d. b. ds .151.00" CANDIDISSIMA, Mill. (PANICUds LATA.) _____d. b. .15.85 " CIRCINATA, L'Her. Round-leaved D.d. b. .251.25ds 66 ds FLORIDA, L. White Flowering Dog-.252.00wood _____d. b. .10 dt66 NUTTALLI, Audub. California Flowering *Dogwood*d. b. .10 1.00" See candidissima. PANICULATA. " STOLONIFERA, Mx. Osier Dogwood10 ds.403.00Seeds of Cornus generally lay over one year. ds CORYLUS AMERICANA, Walt. Hazel Nut. .10 .353.00ds COWANIA MEXICANA, Don. Cliff Rose .504.00dt CRATAEGUS COCCINEA, L. Scarlet-fruited Thorn.....d. b. .10 .40 3.50" dsCORDATA, Ait. Washington Thorn_d. b. .15 1.00 ds " CRUS-GALLI, L.d. b. .10 .403.5066 FLAVA, Ait. Summer Haw_____d. b. dt .45" TOMENTOSA, L.d. b. ds .10 .40 Seeds of Crataegus often lay over one year. dt DIOSPYROS AMERICANA, L. American Persim-2.00*mon*_____C. .10 .25ds DIRCA PALUSTRIS, L. Leatherwoodc. .15 1.50

PINEHURST, N. C.

		Oz.	Lb.	10 Lbs.
et	DRACAENA AUSTRALIS, Forst. (Cordyline) Tender.	.45	4.50	
es	" INDIVISA, Forst	.25	2.50	
ds	EPHEDRA VIRIDIS, Greene	.25	3.00	
ds	EUONYMUS AMERICANUS, L. Strawberry Bush c.	.15	1.00	
ds	" ATROPURPUREUS, Jacq.	.25	1.25	
es	"JAPONICUS, Thunb. Japanese Spindle Tree	.15	1.00	
de	EXOCHORDA GRANDIFLORA, Lindlc.	.15.25		20.00
us	Extremely beautiful shrub. Grows well from seed.	.20	2.20	20.00
dt	FAGUS FERRUGINEA, Ait. (AMERICANA.) C.	.10	.30	2.50
ds	FALLUGIA PARADOXA, Endl.	.40	3.50	
	Rare. Fine under-shrub from Arizona with splendid white flowers.			
\mathbf{ds}	FOTHERGILLA ALNIFOLIA, L. (F. GARDENI.)	20		
	Dwarf Alderc. Very rare shrub with very handsome flowers in early Spring, before the leaves appear.	.50	4.00	
	in early Spring, before the leaves appear.			
dt	FRAXINUS AMERICANA, L. White Ashc.	.15	.30	2.50
dt	" CAROLINIANA, Mill. Water Ashc.	.20	1.50	
dt	" NIGRA, Marsh. Black Ashc.	.20	1.35	
dt	" OREGANA, Nutt. Oregon Ashc.	.20	1.35	
dt	" PENNSYLVANICA, Marsh. Green Ash.c.	.15	.50	3.50
	" PLATYCARPA. See caroliniana.			0.00
dt	" QUADRANGULATA, Mx. Blue Ash c.	.20	1.50	
at	" SAMBUCIFOLIA. See F. nigra.		1,00	
	" VIRIDIS. See F. pennsylvanica.			
	Seed of Fraximus sometimes remain dormant a whole year.			
ds	FREMONTIA CALIFORNICA, Torr. Californian			
	Slippery Elmd. b.	.75	8.50	
	GARRYA ELLIPTICA, Gray	.80		
dt	GLEDITSCHIA TRIACANTHOS, L. Black or Honey Locust	.10	.35	2.50
et	GORDONIA LASIANTHUS, Ellis. Loblolly d. b.	.10	.75	6.00
	<i>Bay</i> c.	.40	4.00	
	Very rare evergreen with splendid white frag- rant flowers.			
	GYMNOCLADUS CANADENSIS, Lam. Kentucky Coffee Treec.	.10	.40	3.50
ds	HALESIA DIPTERA, L. Silver Bell	.20	1.00	8.00
ds	" TETRAPTERA, L. Snowdrop	.20	.80	7.50
ds	HAMAMELIS VIRGINICA, L. Witch Hazelc.	.15	.85	7.50

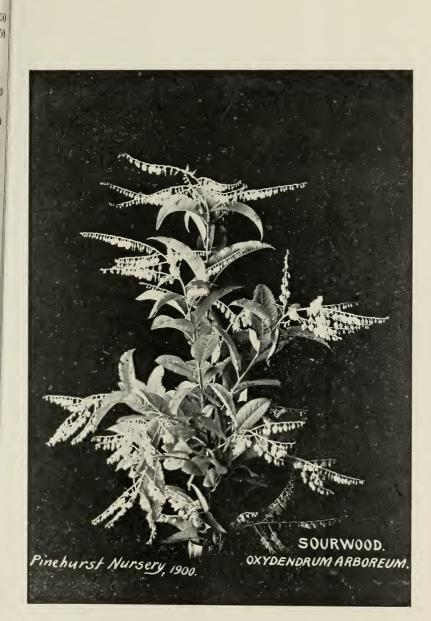
PINEHURST NURSERIES

		Oz.	Lb.	10 Lbs.
et	HETEROMELES ARBUTIFOLIA, Roem. Califor-			
	nian Hollyd. b.	.20	1.50	
es	ILEX CORIACEA, Ell. <i>Tall Gallberry</i> d. b. Tall, evergreen shrub with thick glossy foliage	.20	1.00	9.00
	and abundance of glossy black berries through- out the Winter. <i>Introduced by us.</i>			
ds	" DECIDUA, Walt. Deciduous Holly	.10	.50	4.50
es	" GLABRA, Gray. Gallberry, Ink- berryd. b.	.10	.50	4.50
et	" OPACA, Ait. American Holly	.10	.30	2.50
es	" VERTICILLATA, Gray. Deciduous			
	Holly d. b. Seed of Ilex generally lays over two to three years.	.10	.35	3.00
dt	JUGLANS CINEREA, L. Butter Nut		.20	1.50
	\$2.00 per bus.			
dt	" NIGRA, L. Black Walnut_\$1.00 per bus.	~ ~	.15	1.25
dt	" RUPESTRIS, Eng Very rare and perfectly hardy small tree with	.25	2.00	
	graceful foliage. From Arizona.			
es	KALMIA LATIFOLIA, L. Mountain Laurel-d. b. Shrub of greatest ornamental value.	.10	.45	4.00
34	с. С.	.25	1.75	
at	KOELREUTERIA PANICULATA, Laxm. Chinese Bladdernut	.15	1.20	9.00
	LAURUS BENZOIN. See Lindera benzoin.			
es	LEUCOTHOE CATESBAEI, Gr. Dog Laurel-d. b. Beautiful shrub.	.10	.75	7.00
	C.	.25	1.50	
es	LIGUSTRUM CHINENSE NANUM, Hort. (STAUN- TONI, Rehder)d. b.	.15	1.00	
ds	LINDERA BENZOIN, Meis. Spice Woodd. b.	.15	.80	
	LIQUIDAMBAR STYRACIFLUA, L. Sweet Gum.c.	.35		15.00
	LIRIODENDRON TULIPIFERA, L. Tulip Tree	.10	.35	3.00
	Will produce but a small percentage of growing seed and must be sown very thickly therefore.			
ev	The seed will often lay over two years. LONICERA BRACHYPODA, DC. Japanese			
01	Honeysuckled. b.	.15	1.00	
ds	" INVOLUCRATA, Banks. Western Bush Honeysuckled. b.	1 00		
	Very rare. Of distinct merits.	1.60		
ds	LYCIUM PALLIDUM, Miers	1.25		
dt	MAGNOLIA ACUMINATA, L. Cucumber Tree_d. b.	.10	.75	7.00
dt	"GLAUCA, L. Sweet Bayd. b.	.10	.65	6.00
et	" GRANDIFLORA, L. Great Southern Mag-			
	notia	.10	.70	6.50
	ture, resembling the rubber tree.			

	Oz.	Lb.	10 Lbs.
dt MAGNOLIA MACROPHYLLA, Mx. Large-lean			
Umbrella	15		8.50
dt " TRIPETALA, L. Umbrellad. The seed of Magnolius has to be macerated by planting and it ought to be sown at once after ry ing. Early orders are imperative for this reas Most Magnolias ripen in August and September	fore ven-	.80	7.50
dt MELIA AZEDERACH, L. China Treed.	b10	.40	3.50
dt " AZEDERACH UMBRACULIFORMIS. Tes Umbrella		.50	4.50
dv MENISPERMUM CANADENSE, L. Moonseed_	-c25	3.00	
dt Morus Alba, L. VAR. (TATARICA, L.) Russian Mulberry		2.00	
et MYRICA CALIFORNICA, Cham. Californian			
Waw Myrtle		2.00	0.00
es " CERIFERA, L. Wax Myrtle		1.00	9.00
dt NYSSA SYLVATICA, Marsh. Tupelo, Black G	um .10	.40	3.50
OPUNTIA. See under Cacti.			
OREODAPHNE. See Umbellularia.			
dt OSTRYA VIRGINICA, Willd. Hop Hornbean	ı .15	1.50	
ds OXYDENDRUM ARBOREUM, DC. Sour-	h 10		4.00
wood d. Produces a wealth of white flowers in lo		.45	4.00
racemes. Foliage colors finely in Autur Entirely hardy.	mn10	.75	6.50
dt PAULOWNIA IMPERIALIS, S. & Z. Empress		~~	
Tree	.c15	.75	
Fairly hardy tree from the Orient, with er mous foliage and large panicles of blue sw scented flowers, which form their buds du the foregoing year. Phenomenal grower.			
et PERSEA CAROLINENSIS, Nees. Red Bay-d. Very interesting, handsome, rare plant, wh is not hardy.	b40 nich	4.00	
PHOTINIA ARBUTIFOLIA. See Heteromeles			
dt PLATANUS OCCIDENTALIS, L. Sycamore		.30	2.50
ds PRUNUS AMERICANA, Marsh. Red Plum		.80	
et " CAROLINIANA, Ait. Carolina Mock			
Cherryd. One of the most beautiful small evergreen the of the South. Attractive all year rou Although not hardy North, it is well adap to cultivation in pots and tubs same as be Stands pruning of any kind well.	rees .nd. oted	.45	4.00
ds " DEMISSA, Walpd. Very rare. From California mountains.	b45	3.50	
ds " EMARGINATA, Wats. VAR. MOLLIS_d.	b45	3.00	
	DITIDO	MITTO	EDIEC

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PINEHURST NURSERIES



See page 10.



			Oz.	Lb.	10 Lbs.
dt	PRUNUS SEROTINA, Ehrh.		7.0	~0	1 20
1.		d. b.	.10	.50	4.50
ds	SUBCORDATA, Dentil.		.50 .10	.70	
ds dt	PTELEA TRIFOLIATA, L. \mathcal{L}	-	.10.15	1.50	
	PURSHIA TRIDENTATA, D. J.	-	1.50	1.00	
us	Rare, graceful shrub fro Best in sandy or clay rockeries.	om the West. Hardy.	1.00		
dt	PYRUS AMERICANA, DC.	Mountain Ash_d. b.	.15	1.50	
ds		Chokeberryd. b.	.15	.80	7.50
	Hardy, admirable shrub advantage in Winter wh red berries, resembling h for Christmas decoration	en covered with bright holly. Much used now			
dt	QUERCUS ALBA, L. White			.25	1.75
dt	AQUATICA, Walt. W Almost evergreen with u			.25	1.75
dt	"BICOLOR, Willd. S	wamp White Oak		.25	1.75
		\$8.00-100 lbs.			
dt	,,	<i>crub Oak</i>		.25	1.50
dt	" COCCINEA, Muench.	Scarlet Oak \$15.00-100 lbs.		.35	2.50
dt	" GARRYANA, Dougl.	Western White Oak	.15	.75	
et				.25	1.75
	Grand evergreen oak, w has proved hardy in Arn	old Arboretum, Boston.			
dt		-		.35	3.00
dt	" MACROCARPA, Mx.	Mossy-cup Oak \$12.00-100 lbs.		.30	2.00
dt				.25	1.50
dt	" PALUSTRIS, Muench.	Pin Oak		.25	1.75
dt	Acorns are very perishal	in Chestnut Oak ble. \$8.00-100 lbs.		.25	1.50
dt	t "RUBRA, L. Red Oa	<i>k</i> \$8.00-100 lbs.		.25	1.75
dt	t " TINCTORIA, MX. B	lack Oak		.35	2.25
		\$16.00-100 lbs.	•		
et	The famous evergreen of	ak of the South, which		.30	2.00
	forms quite an enormous tunately is not hardy. G seashore.	s tree, but which unfor- Frows best in vicinity of			
	100 lbs. equal about 2 bus	hels.			
	The outlook for good crop is fair, and we can make sp	pecial prices for larger lots			
	by letter. As most acorns a ought to reach us in adva	are very perishable, orders			
DI	ought to reach us th dava	ince of ripening of crops.			

			Oz.	Lb.	10 Lbs.
dt	RHAN	INUS CALIFORNICA, Eschschd. b.	.10	.75	
ds	66	CAROLINIANA, Waltd. b.	.10	.35	3.00
dt	"	PURSHIANA, DC. <i>Bearberry</i> d. b. Rare small tree from Oregon.	.30	2.50	
es	RHOD	ODENDRON CALIFORNICUM, Hookc.	1.50		
es	"	CALIFORNICUM MAXIMUM(?)c.	1.50		
es	"	MAXIMUM, L. Great Laurelc.	.25	2.25	
ds	RHUS	COPALLINA, L. Sumachd. b.	.10	.25	2.00
ds	"	GLABRA, L. Smooth Sumachd. b.	.10	.25	2.00
ds	66	TRÍLOBATA, Nutt.	.25	2.50	
		Rare Western species. Does best in dry sandy soil. Very handsome.			
ds	66	TYPHINA, L. Staghorn Sumach d. b.	.10	.80	
ds	"	VENENATA, DC. Poison Sumach d. b.	.15	.75	
ds	RIBES	S AUREUM, Pursh. Golden-flowering			
		Currantd. b.	.40	4.50	
ds	66	CEREUM, Dougl. Western Currant-d. b.	.30	3.50	
ds	66	PINETORUM, Gr. Arizona Currant.d. b. Very rare. Fresh fruits are edible.	.40	3.50	
ds	"	SANGUINEUM, Parshd. b. Entirely hardy. Ought to be grown every-	.25	2.00	
		where.			
dt	66	ROBINIA PSEUDACACIA, L. Black or Yellow Locust	.10	.50	
ds	Rosa	ARKANSANA, Porter. Arkansas	0.5	0 20	
		<i>Rose</i>	.35	2.50	
		ings on banks and exposed places.			
ds	66	BLANDA, Aitd. b.	.10	.75	
ev	66	BRACTEATA, Wendl. MacCartney			
		Rosed. b. Rare single rose of greatest beauty. Not hardy.	.30	2.50	20.00
ds	66	CALIFORNICA, C. & Sd. b.	1 00		
us		From California mountains.	1.00		
ds	66	CAROLINA, Ld. b.	.25	2.00	
ds	66	FENDLERI, Crep. Winter Berry			
		Rosed. b. Splendid shrub for winter effect from the West.	.40	3.50	
		Hardy.			
ev	66	LAEVIGATA, Mx. Cherokee Rosed. b.	.20	2.50	
		The typical rose of the South. Not hardy. Strong climber. Fine glossy foliage. Very			
		early and profuse bloomer.			
ds	"	LUCIDA, Ehrhd. b.	.20	2.00	
dv	66	WICHURAIANA, Crep. Japanese Memorial			
		Rosed. b.	.35	3.00	



See page 12.



	Ōz.	Lb.	10 Lbs.
ds RUBUS DELICIOSUS, James. Flowering Thim-			
ble Berryc. Hardy, distinctly fine shrub from the West.	1.25	12.00	
es RUTA GRAVEOLENS, L. RueC.	.15	1.00	
ds SAMBUCUS CANADENSIS, L. Common			
Elderd. b.	.10	.50	
ds " GLAUCA, Nuttd. b.	.25	2.50	
dt SASSAFRAS OFFICINALE, Nees. Sassafras_d. b.	.10	.35	3.00
es Schinus Molle, L. Pepper Tree	.15	1.00	
ev SMILAX LAURIFOLIA, L. Evergreen		60	F 00
Briard. b. The "Southern Smilax" used freely now for	.15	.60	5.00
decorative work. The roots yield the material for "French Briar" pipes.			
dv " WALTERI, Pursh. Deciduous Briar_d. b. Splendid hardy climber, with a wealth of bright red berries throughout the winter.	.10	.60	5.00
ds SORBUS DUMOSA, Greened. b. Very rare shrub from Arizona. Hardy.	.40	5.00	
ds STUARTIA PENTAGYNA, L'Heritc.	.25	1.50	
"American Camellia." One of the handsomest and withal rarest hardy shrubs.			
STYRAX AMERICANA, Lam. Storaxd. b.	.20	1.50	
dt SWIETENIA MAHOGONI, L. Mahogany Tree			
dv TECOMA RADICANS, Juss. Trumpet Flower_c. Hardy climber with fine flowers.		1.20	
ds "STANS, Juss Tender. Four feet high. Yellow flowers.	.75		
dt TILIA AMERICANA, L. American Bass-			
woodd. b.	.15	.60	5.00
dt ULMUS AMERICANA, L. White Elmc.		.80	7.50
et UMBELLULARIA CALIFORNICA, Nutt. Califor-			
<i>nian Laurel</i> Pretty, small tree, not quite hardy.	.15	1.20	
ds VIBURNUM ACERIFOLIUM, L. Maple-leaved			
<i>Haw</i> d. b.	.10	1.00	
ds " CASSINOIDES, L. White Hawd. b.	.15	1.20	
ds " DENTATUM, Ld. b.	.10	1.00	
ds " LANTANOIDES, Mxd. b.	.15	1.25	
ds "LENTAGO, L. Sheepberryd. b.		1.00	
ds "NUDUM, L. Possum Hawd. b.		.40	3.50
ds " OPULUS, L. High Cranberry Bush-d. b.	.15	1.50	
us FROMPOLIUM, L. Black Hawu. D.	.10	.50	4.00
dv VITIS AESTIVALIS, Mx. Summer Grape dv " CORDIFOLIA, Mx. Winter Grape		2.00	
the conditional max. Willier Grupe	.25	2.00	
dv " RIPARIA, Mx. Common Frost Grape	.25	2.00	

	0z,	Lb,	10 Lbs
VITIS ROTUNDIFOLIA. See Vulpina.			
dv " VULPINA, L. Muscadine From seedlings of this grape many of our best cultivated varieties have originated, among them the famous Southern "Scuppernong."	,	1.75	
dv WISTARIA FRUTESCENS, DC. Virgin's	-1 -	1 00	0.00
Bowerc.	.15	1.00	9.00
ds XANTHORRHIZA APIIFOLIA, L'Her. Yellow Root	30	2 50	
dt XANTHOXYLUM AMERICANUM, Mill. Tooth-		2.00	
ache Tree		1.50	
dt " CAROLINIANUM, Lam. Prickly Ash	.20	2.00	
es YUCCA ANGUSTIFOLIA, Pursh. Glaucous			
Adam's Needlec.	.30	3.00	
Very hardy ornamental species.			
et "ALOEFOLIA, L. Spanish Bayonetc.	.30	2.50	
et " BACCATA, Torr. Mexican Banana c.	.75		
et "BREVIFOLIA, Eng. Joshua Tree	1.20		
es "FILAMENTOSA, L. Adam's Needle,			
Beargrassc. Our supply is very limited, and we solicit early orders for seed of this entirely hardy, eminently ornamental plant.		3.00	
es " WHIPPLEI	.75		

CACTI.

All kinds offered by us are entirely hardy, except where specially noted. As cacti grow very easily from seed, we suggest a trial order. Half-ounce at ounce rates; quarter-pound at pound rates; two and one-half pounds at ten pound rates. We use the nomenclature as given us by the collectors.

		Pkt.	Oz.	Lb.
CACTUS	MISSOURIENSIS	.25		
"	VIVIPARUS	.25		
ECHINO	CACTUS SIMPSONI	.25		
ECHINO	CEREUS VIRIDIFLORUS	.25		
"	VIRIDIFLORUS, (LONG) SPINED VAR	.25		
O PUNTI	A ARBORESCENS	.10	.75	6.00
"	MESACANTHA CYMOCHILA	.10	.35	3.00
"	MESACANTHA	.10	.30	2.50
"	MESACANTHA MACRORRHIZA	.10	.30	2.50
"	PHAEACANTHA MAJOR	.10	.40	3.50
"	POLYCANTHAC.	.20	.50	4.00
66	TUNA	.25	.45	•
	Tender.			
66	VULGARIS, Mill.	.10	.15	.65
14	PINEH	URST 1	NURSE	ERIES

PALMS.

Half-ounce at ounce rates; quarter-pound at pound rates.

	10 Secds	100 Seeds	1000 Seeds	Oz.	Lb.
BRAHEA EDULIS. See Erythea edulis.					
" FILAMENTOSA. See Wash-					
ingtonia filifera.					
" GLAUCA. See Erythea					
armata.					
CHAMAEROPS HUMILIS, L.				.20	1.20
" HYSTRIX. See Rhapidophyl- lum.					
COCOS NUCIFERA, L. Cocoanut Palm_	.75	4.00	35.00		
ERYTHEA ARMATA, S. Wats. Blue					
Palm	.20	1.00	6.50	.30	3.50
" EDULIS, S. Wats	.35	1.50	8.50	.45	4.50
OREODOXA OLEARACEA, Mart. Cab-					
bage Palm	.20	1.50	7.50		
" REGIA, H. B. & K. Royal	0.0	1 00	~ ~ ~		
Palm	.20	1.00	5.50	20	
PSEUDOPHOENIX SARGENTI, H.Wendl.				.50	4.00
RHAPIDOPHYLLUM HYSTEIX, W. & D.				.40	3.50
SABAL LONGIPEDUNCULATAd. b.				.30	1.25
" PALMETTO, R. & S. Cabbage Palmettod. b.				.25	1.00
SERENOA SERRULATA, Hook. f. Saw					
Palmettod. b.				:15	.75
THRINAX ARGENTEA, Lodd. Brittle					
Thatch				.25	1.50
BARBADENSIS, LOUU.				.40	2.50
"EXCELSA, Griseb.				.40	2.00
interitution, onalla. Due				40	0 50
Top Palmetto				.40	2.50
WASHINGTONIA FILIFERA, Wendl. Fan-leaf Palm				.20	1.20
" ROBUSTA, Wendl.				.20.35	3.00
" SONORAE, S. Wats				.35	9.00
ZAMIA INTEGRIFOLIA, L. Coontie.				.00	5.00
(Cycadeae)				.25	1.50
(0) cuado),				.20	1.00

PINEHURST, N. C.

HERBACEOUS SEEDS.

One-fourth ounce at ounce rates; one-fourth pound at pound rates. We will send ten-cent packages of any of the following seeds.

	Pkt.	Oz.	Lb.
ABRONIA FRAGRANS, Nutt. Wild Four-o'clock Pretty night-blooming, trailing plant.	.20	1.00	
ACONITUM COLUMBIANUM, Nutt. (A. FISCHERI.) Rare. Pale blue or purple flowers in loose ter- minal racemes.	.25		
ACTINELLA ODORATA Rare. Fine for alpine gardens.	.25	2.00	
ALETRIS FARINOSA, L. Unicorn Root	.10	.30	2.00
ANEMONE DICHOTOMA, L.	.15		
" PATENS, L. Wind Flower	.25	1.00	9.00
APOCYNUM ANDROSAEMIFOLIUM, L. Dogbane	.15		
AQUILEGIA CHRYSANTHA, Gray. Rare. From Arizona. 3-4'. Many-flowered. Pale yellow-tinted or claret.	.15		
"COERULEA, James. Blue Columbine True wild. Beautiful flowers. Ought to be represented in every collection.	.30	1.75	
ARENARIA DIFFUSA, L. Sandwort	.10	1.00	
ARGEMONE PLATYCERAS, L. & O. Colorado Silver			
Poppy	.20	.75	6.00
" PLATYCERAS HISPIDA, Prain. Silver			
Poppy	.20	.75	6.00
ARTEMISIA ARBUSCULA, Nutt. True Sagebrush	.25		
CANADENSIS, MA.	.25		
FILIFOLIA, IOII.	.25		
FRIGIDA, WING. IT at Mountain Suge	$.25 \\ .25$		
"MEXICANA, Willd Asclepias fascicularis. Californian Butterfly	.20		
Weed	.30	2.50	
" SPECIOSA, Torr. Western B.	.20	1.00	7.50
"TUBEROSA, L. Pleurisy Root A very handsome plant.	.15	.75	
ASCLEPIODORA DECUMBENS, Grav.	.35		
Very handsome decumbent plant from Arizona, with greenish yellow or reddish brown flowers.			
ASPERULA AZUREA, J. & Sp. Blue-flowered	10	95	1 50
Forest-masterA remarkably graceful annual, with showy racemes of light blue color.	.10	.20	1.50
ASTER CANESCENS, Pursh 1-2'. Pale flowers.	.25		
16 PINEHU	JRST	NURSE	RIES

	Pkt.	Oz.	Lb.
ASTER COMMUTATUS, Gray. Low branching kind. 1'. Abundant white	.25		
flowers.			
" FENDLERI, Gray	.25		
"FOLIACEUS, L	.25		
Very large lavender-colored flowers.	0.0	1 00	
"LAEVIS, L Tall graceful species.	.20	1.20	
"MULTIFLORUS, Ait	.20	1.20	
" PORTERI, Ait 1'. Quite rare. Handsome pure white flowers.	.25		
Astragalus Bigelowi, Gray.	.45		
Rare, dwarf. Magnificent purple, red and white flowers.	• 10		
" DRUMMONDI, Dougl	.20	1.50	
" PICTUS, Gray.	.25		
" PURSHII, Dougl. VAR. UNCTUS	.25	2.00	
" RACEMOSUS, Pursh	.20	1.50	
BAPTISIA TINCTORIA, R. Br. Wild Indigo	.10	.50	
" VILLOSA, Ell. False Indigo	.10	.30	
BRICKELLIA GRANDIFLORA, Nutt. Tassel Flower	.35		
CAMASSIA ESCULENTA, Lindl. Camass	.25	1.25	
CAMPANULA PARRYI	.35		
CANNA FLACCIDA, Roscoe	.10	.40	3.00
CASTILLEJA INTEGRA, Gray. Painted Cup	.20		
Rare. Remarkably fine dwarf herb with bright red flowers.			
" PALLIDA, Kunth	.25		
" SESSILIFLORA, Pursh	.25		
CHIMAPHILA MACULATA, Pursh. Prince's Pine	.10	.70	
CLEMATIS DOUGLASI, Hook. Mountain Leather			
Flower	.25	1.75	10.00
"FREMONTI, Wats.	.30		
" PITCHERI, T. & G.	.25	2.25	
" See also under Trees and Shrubs.			
CNICUS REPANDUS, Ell. Scotch Thistle	.10		
CLITORIA MARIANA, L. Butterfly Pea One of the best blooming, low, climbing peren- nials which deserves general cultivation.	.20	.50	3.50
CROTALARIA SAGITTALIS, L. Rattlebox	.10	.50	
Annual. The glossy black seed pods form stiff walls and the ripe seeds sound in them like miniature rattles.	•		
CTENIUM AMERICANUM, Spreng. Toothache Grass	.10	.60	
PINEHURST, N. C.		17	,

	Pkt.	Oz.	Lb.
DARLINGTONIA CALIFORNICA, Torr. Rare and interesting carnivorous plant from California.	.50		
DELPHINIUM CARDINALE, Hook. (True) Larkspur Rare. Beautiful scarlet flowers.	.30	3.00	
" SCOPULORUM, Gray. Rocky Mountains Larkspur	.25	$1.{ m 50}$	9.00
2-3'. Large intense blue or purple flowers. DICENTRA EXIMIA, TOR. Bleeding Heart	.15	1.50	
DIONAEA MUSCIPULA, Ellis. Venus Fly Trap Very rare and wonderfully interesting carnivor- ous plant which occurs in but one section of this State and has not been found growing spon- taneously anywhere else.	.15	4.00	
DROSERA ROTUNDIFOLIA, L. Sundew	.25	3.00	
ECHINOCYSTIS LOBATA, T. & G. Wild Cucumber Very rapidly growing, handsome, annual vine.	.15	.75	
ERIGERON GLABELLUS, Nutt 1'. Very fine violet or purple flowers.	.20		
"MACRANTHUS, Nutt. VAR. ALPINUS	.25	2.50	
 NEO-MEXICANUS	.25		
ERIOCAULON DECANGULARE, L. Pipewort Bog plant. Flower heads button-shaped.	.25	2.00	
ERIOPHORUM VIRGINICUM, L. Cotton Grass Bog plant. Heads resemble cotton bolls very much.	.10	.50	3.00
ERYNGIUM YUCCAEFOLIUM. Sea Holly	.25		
ERYTHRINA HERBACEA, L. Coral Tree Racemes 1-2' long. Flowers of beautiful scarlet color. Not hardy.	.10	.70	
EUPATORIUM PURPUREUM, L. Queen of the	10	05	
Meadows	.10	.65	
EUPHORBIA ROBUSTA, Sm. Rocky Mountain Spurge	.25	1.50	
FRASERA SPECIOSA, Dougl. Monument Plant	.25	1.50	
GALACTIA GLABELLA, Mich. Milk Pea- Handsome leguninose with graceful foliage and an abundance of reddish-purple flowers. Hardly under cultivation at present.	.10	.45	2.50
GENTIANA AFFINIS, Griseb. Western mountains. Grand blue flowers.	.35		
" ANDREWSI, Griseb. Closed Gentian Western form.	.25		
" ALBA, Muhl. White Gentian	.50		

PINEHURST NURSERIES

	Pkt.	Oz.	Ъ́ь.
GENTIANA ANGUSTIFOLIA, Mx. Narrow-leaved Gentian	.25		
Large bright-blue flowers.			
" BIGELOWI, Gray Bright blue flowers, very numerous and dense.	25		
" PARRYI, Eng Purple-blue flowers.	.50		
" SAPONARIA, L. Soapwort Large light-blue flowers. Rare.	.25		
" SERRULATA, Gunn. Fringed Gentian Annual.	.50		
GERANIUM FREMONTI, Torr. Hardy Crane's Bill	.40	3.00	
GERARDIA PURPUREA, L. False Foxglove Graceful annual with abundance of purple or pinkish-red showy flowers. Late bloomer.	.10	.25	
GEUM TRIFLORUM, Pursh.	.15		
Pretty rare perennial, well adapted to border plantings. Drooping flowers are pale pink.			
GILLENIA STIPULACEA, Nutt. Indian Physic	.20	.75	2.00
GILIA AGGREGATA, Spreng.	.30	4.50	
" AGGREGATA ALBA	.30	5.00	
" PUNGENS Pretty annuals or biennials of easy culture.	.25		•
HABENARIA BLEPHARIGLOTTIS, Poir. Splendid ground orchid with pure white flowers.	.50	3.50	
" CILLARIS, R. Br. Yellow-fringed Orchid_ Said to be the finest native orchid. Orange- fringed flowers in dense heads.	.50	3.50	
HELIANTHUS MAXIMILIANI, Schrader.	.20	1.00	
" PUMILUS, Nutt. Dwarf Sunflower	.20	1.20	
HYMENOPAPPUS MEXICANUS	.20		
IPOMAEA LEPTOPHYLLA, Torr. Bush Morning			
<i>Glory</i> Bush-like annual with large pink to purple- colored flowers.	.25	.75	6.00
IRIS HEXAGONA, Walt 2-3'. Flowers deep blue with white, yellow	.15	.40	3.50
and purple veins. MISSOURIENSIS, Nutt.	.25	1.00	
1'. Large white and pale blue flowers.			
 VERSICOLOR, L. American Flag	.10	.50	
JATROPHA STIMULOSA, Mx. Stinging Netile Handsome foliage and very fine pure white flowers. Enormous deep-reaching root.	.10	.30	
KRYNITZKIA FULVOCANESCENS, Gray Rare dwarf, for alpine gardens.	.30		

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Í	kt.		Oz.	ц́ь.
KUHNIA ROSMARINIFOLIA		.30		
LATHYRUS SPLENDENS, Kellogg. Pride of California		35	1.25	
LEPACHYS COLUMNARIS, T. & G.		15	1.20	
Very handsome tall kind. Blooms first seaso from seed.	1	. 10		
LIATRIS GRAMINIFOLIA, Willd. Button Snake				
<i>Root</i>	 :.	.10	.65	
SQUARROSA, Willd. Blazing Star 1-2'. Purple flowers appear in dense spikes in June and July.	 n	.10	.65	
'' TENUIFOLIA, Nutt		10	.65	
LILIUM SUPERBUM, L. Turk's Cap Lily One of the best native lilies.	- •	.20	.75	
LOPHANTHUS URTICIFOLIUS, Benth	- •	.25		
LUPINUS ARBOREUS, Sims.		.30	.75	5.00
"DIFFUSUS, Nutt. Deer Cabbage	s - -	.10	.30	2.50
" PARVIFLORUS, Nutt		15		
MENDOZA SCABRA		25		
MENTZELIA NUDA, T. & G.		20	1.50	
" ORNATA, T. & G		25	1.75	
MERTENSIA LANCEOLATA, DC. Lungwort		25		
" SIBIRICA, Don.		25		
MONARDA FISTULOSA MOLLIS, Benth. Wild		95		
OENOTHERA ALBICAULIS, Pursh		25 15		
BRAUHIUARPA, UIAy		25		
 CAESPITOSA, Nutt. FORMOSA 		25 35		
FORMOSA				
$\mathbf{FRASERI}, \mathbf{I}, \mathbf{W} \mathbf{U}$		25		
"SERRULATA, Nutt Most Evening Primroses are very handsome and are easily grown from seed. While most o them are perennials or biennials they are fre quently treated as annuals.	l f	25		
OXYTROPIS LAMBERTI, Pursh		25		
" SPICATA Large spikes of white flowers.	• •	45		
20. PINEI	IUI	RST	NURS	ERIES



See page 20.

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	Pkt.	Oz.	Lb.
PAEONIA BROWNI, Dougl.	.50		
Flower crimson with yellow border.	50		
PARRYA MENZIESI, Greene. Rare. Many flowered racemes of bright purple flowers. Well adapted to alpine gardens.	.50		
PASSIFLORA INCARNATA, L. Passion Flower Luxuriant vine. Beautiful large pinkish-white flowers with a triple nurple and flesh-colored		.30	2.50
flowers, with a triple purple and flesh-colored crown of magnificent design. Fruit of hen's egg size contains a whitish juice of very agreeable taste. Called "Maypops" throughout the South.			
PEDICULARIS PARRYI, Grav.	.25		
Handsome alpine with light yellow flowers. Rare.			
PENTSTEMON BARBATUS, Nutt. VAR. TORREYI,		1.00	4 00
Gray Remarkably fine kind.	.20	1.00	4.00
" CAERULEUS, Nutt.	.15	1.00	
1'. Very showy blue flowers in compact racemes.			
"GLABER, Pursh Very handsome, large, sky-blue flowers.	.20	1.50	
"GLAUCUS, VAR. STENOSEPALUS, Gray 1'. Alpine, with purplish or dull white flowers.	.20		
"HUMILIS, Nutt.			
" LAETUS, Gray.			
LINARIOIDES, Gray.6". Rare, small purple flowers.	.25		
" SPECTABILIS, Thurber	.35		
" VIRGATUS			
PERICOME CAUDATA, Gray. Rare, tall herb with golden yellow flowers. Fine for rockeries.	.25		
PETALOSTEMON CANDIDUM, Mx. White Prairie	2		
<i>Clover</i> 2′. White flowers on stiff wiry stems in dense	.20	.75	
 spikes. "TENUIFOLIUS, Gray. Silky Prairie Clover 1'. Deep purple flowers. 	.20	.80	
PHLOX CAROLINA, L. (OVATA, L.)	.25		
"DOUGLASI, Hook. Dwarf. Flowers white to purple. Western States.	.25		
" SUBULATA, L. Moss Pink_Mixed colors Separate colors, snow-white, light	.25	2.00	
pink or deep red	.25	•	
Invaluable plant for ground cover and border ing, as it forms compact and large clumps. The plants are covered with flowers in early Spring and again in Fall.	-		
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	Pkt.	0z.	Lb.
PHYTOLACCA DECANDRA , L. <i>Pokeweed</i> Stout, tall growing perennial with much branch- ing bright red stems. Handsome in bloom and fruit.	.10	.25	1.50
POLEMONIUM CONFERTUM, Gray Deep blue honey-scented flowers.	.25		
" HUMILE, Willd. Bell-shaped blue or purplish flowers. It "has the odor of ripened grapes."	.25		
"HUMILE PULCHELLUM, Gray Dwarf. Violet or lavender-blue flowers.	.30		
POTENTILLA GLANDULOSA, Lindl.	.15	2.00	
PRIMULA PARRYI, Gray Rare alpine with very fine flowers.	.50	6.00	
RHEXIA MARIANA, L. Deer Grass 1-2'. Large showy purple flowers appear from July until September.	.10	.30	
" VIRGINIANA. L. Meadow Beauty 6-12". Very bright purple flowers with golden yellow stamens. Flowers nearly all Summer.	.10	.30	
RHYNCHOSIA ERECTA, DC	.10	.40	
"RENIFORMIS, DC	.10	.40	
ROMNEYA COULTERI, Harvey. Matilija Poppy Half woody, very ornamental Californian plant with large, pure white, fragrant flowers.	.25	1.20	
SALVIA AZUREA GRANDIFLORA Very showy Western kind. Flowers are finely adapted to florists' purposes.	.25	2.50	
SARRACENIA FLAVA, L. Trumpet Leaf	.10	.50	5.00
⁴⁴ PURPUREA, L. Pitcher Plant 1 ['] . Leaves form large open prostrate pitchers of deep purple color topped by the large purple- veined broad hood. Flowers are deep purple and appear in April. Hardiest species.	.10	.50	5.00
" VARIOLARIS, Mx. Spotted Trumpet Leaf 6-12". The leaves are yellowish-green, some- times whitish mottled. The broad hood has purple veins and is bending over the mouth of	.10	.60	6.00
the tube. The flowers are bright yellow. Quite a rare species.			
SAXIFRAGA NIVALIS, L.	.25		
" PUNCTATA, L.	.25		
SCHRANKIA ANGUSTATA, T. & G. Sensitive or Shame Briar	.25	.60	
Trailing perennial with large finely pinnate foliage, which is truly sensitive and will close at the merest touch. The pinkish mimosa flow- ers appear in July. Grows well in shade.			

PINEHURST NURSERIES

	Pkt.	Oz.	Lb.
SENECIO DOUGLASI, DC	.20	1.50	15.00
2'. Very late bloomer. Flowers are very num- erous and golden yellow narrowly rayed.			
SILENE DOUGLASI, Hook 2-3'. Flowers rose color or nearly white.	.25		
" VIRGINICA, L. Fire Pink 1-2′. The brilliantly fiery red flowers appear all Summer and make the fire pink one of our most effective plants for low ground.	.10	.75	
SISYRRHINCHIUM ANGUSTIFOLIUM, Mill. Blue-			
eyed Grass 1'. Delicate sky-blue flowers and grass-like fol- iage. Nice for edgings and borders.	.10	.50	
SMILACINA AMPLEXICAULIS, Nutt. False Solomon's	05	1 50	10.00
Seal2'. Western species. Great panicles of creamy white fine flowers.	.25	1.50	10.00
SOLIDAGO MULTIRADIATA SCOPULORUM, Gray 3-18". Rare.	.25		
" SPECTABILIS, Gray 1-2'. "Does not spread from root."	.25		
SPIRAEA CAESPITOSA, Nutt.	.25		
Rare. Low herb of wonderful beauty, which forms large velvety tufts and which ought to find splendid use as a ground covering plant. Seed was collected 7-9000' above sea level.			
STANLEYA PINNATIFIDA, Nutt. Cleome-flowered			
<i>Wallflower</i> 3′. Hardy perennial, with deep golden yellow flowers on long terminal spikes.	.25	2.00	
STILLINGIA SYLVATICA, L. Queen's Delight 2-3'. Neat, much branched perennial. Grows	.10	.40	2.50
in any kind of soil. SYNTHYRIS PLANTAGINEA, Benth Rare. Dwarf herb closely related to Wulfenia.	.35		
TEPHROSIA VIRGINICA, L. Devil's Shoestring 2-3'. Its deep and spreading roots make it a very valuable sand binder, while the very hand- some flowers prove it a very desirable orna- mental at the same time. Grows in any soil.	.10	.60	
THALICTRUM CORNUTI, Ait. Tall Meadow Rue	.15	1.00	
TRADESCANTIA ROSEA, Vent. Rose Spiderwort	.10	1.00	
Dwarf, very graceful herb with grassy foliage and bright rose flowers blooming continuously.			
VERBASCUM THAPSUS, L. Common Mullein	.10	.20	
VIOLA BECKWITHI Rare. From California. Purple and white pansy flowers appear in earliest Spring.	.50		
"COGNATARocky Mountains. Blue flowers.	.25		
" NUTTALLI, Pursh. Rocky Mountains. Large yellow flowers.	.35		

PINEHURST, N. C.

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	Pkt.	Oz.	Lb.
VIOLA PEDATA, L. Bird's Foot Violet	.35		
XYRIS BREVIFOLIA, Mx. Short-leaved Yellow-eyed	ļ		
Grass	.10	.50	
6-12". Bog plant.			
" CAROLINIANA, Walt. Yellow-eyed Grass		.50	
2-3'. The flowers are small, yellow, iris-shaped			
and appear in light-brown globular spikes which much resemble diminutive pine cones.			
which much resempte diminutive pine cones.			

Our Collecting Expeditions in 1901.

ARIZONA.

Dr. C. A. Purpus, the well known botanist and collector, is again in the mountains of Arizona collecting seeds and plants in our interests, and we anticipate very interesting results, which we shall take pleasure to publish in a SPECIAL LIST to be issued as soon as the seeds, etc., are on their way to us here.

We shall gladly consider any special wishes for seeds and plants from that territory, and solicit correspondence from botanical gardens and others.

MEXICO.

Dr. Purpus expects to be in Mexico during the coming winter months collecting seeds of the native flora and also plants of palms, cacti, etc., and we would like to enter into correspondence with parties who are interested in these classes of plants and should wish to avail themselves of this rare opportunity.

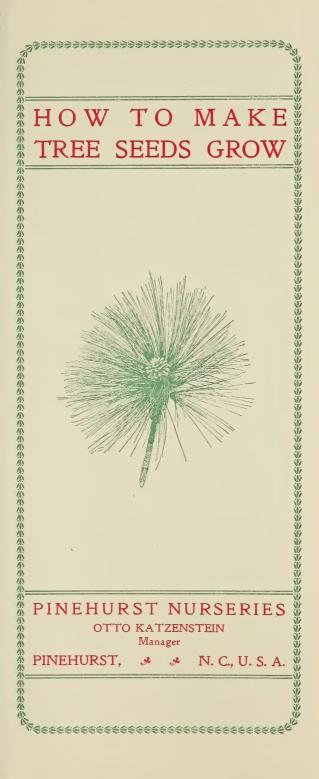
CUBA.

We have a collector in Cuba at present and shall gladly accept orders for seeds and plants from that island and the West Indies, if they reach us in time.

FLORIDA.

We have to offer quite a variety of rare tropical plants grown for us in South Florida, of which we will, with the greatest pleasure, send a list upon application.





REQUENT inquiries as to the proper time and ways of sowing the seeds of conifers, woody plants, etc., have caused us to compile the following directions, which we hope will be found of some help in making propagation of hardy plants from seed a success.

1. WHERE TO SOW.—Seeds in larger quantities are sown to best advantage on properly prepared seedbeds (2), while rare seeds or seeds in small quantities are best sown in boxes (7).

2. SOIL AND SITE FOR SEED-BEDS .- Select a location sheltered from heavy east and northeast winds, and provide for wind-breaks in the form of hedges, fences, etc., where no natural protection is given. The best soil is a well drained, loamy sand. No fresh manure should be used, but well rotted manure or compost is beneficial. Where an improvement of the soil is needed heavy clay ought to be mixed with sand and too light sand with loam. The soil ought to be well worked to a depth of at least twelve inches, be quite free from stones, and ought to be brought to as fine a mechanical condition as possible by repeated raking or harrowing. It is of first importance to have the seed-beds quite free from weeds before the sowings are made, to avoid much annovance afterwards. The length of seed-beds is indefinite; their width ought not exceed six feet. Five feet is most convenient. Seed-beds can be used permanently as such.

3. TIME OF SOWING.—While many seeds retain their power to germinate for several years, most satisfactory results will always be obtained with fresh seeds. Some seeds are very perishable and must be sown at once after ripening (Λ). For most seeds a spring sowing (C, D) is advisable, though for others again a fall sowing has its advantages (B).

4. METHOD OF SOWING.—Seeds can be sown either broadcast or in drills. When sown broadcast, a larger number of seeds can be sown on a given space, but for sturdier plants, easier cultivation and weeding we prefer to sow in drills. The depth of sowing depends upon the size of the seeds, but it may be stated that it is better to cover not enough rather than to bury the seeds too deep. Generally speaking, seeds ought not be covered more than double their diameter at the utmost. There are exceptions, of course. Coniferous seeds need

2

be covered very thinly only with soil, while Gleditschia, for instance, will germinate best from a depth of at least two inches or even a little more. After sowing, press the soil firmly down by rolling or with the back of the spade. The distance between the drills for seeds of quick-growing deciduous plants is about nine to twelve inches, and for slow growers and for evergreens four inches will be found sufficient for hand cultivation. Where horse cultivators are worked the rows must be three and one-half feet apart. A mulch of pine needles, moss or a light cover of well rotten manure will keep the soil in even moisture and protect it from the direct rays of the sun. The mulch must be removed, however, as soon as the plants appear. The best shade can be obtained from the use of lathscreens, which can be made in any desired length from the common building laths. These can be fastened on posts about six inches above ground and can be raised as the plants grow on until they can be removed entirely.

5. WATERING.—If the sowing has been performed when the soil was in proper condition and when the beds are shaded, very little watering ought to be needed. If it has to be done, water early in the morning or late in the afternoon, and use a fine spray, as the seedlings are very apt to "damp off."

6. AFTER CARE is very important after the seedlings come up, and consists in shading, weeding and in light cultivation of the soil.

7. SOWING IN BOXES.—For sowing of small quantities or of rare seeds, nse shallow boxes about three inches deep, of as uniform a size as possible. Give good drainage by boring holes or by leaving cracks between the boards in the bottom, and fill the boxes with loamy sand. After sowing, press soil down firmly and mulch with sphagnum. If they can be had handily, grocery boxes—those used for soap or crackers or canned goods—are very well adapted to this purpose, by splitting each box in three. The filled boxes can be stowed away during winter in a cellar or cold frame—piled to about six high—and when spring comes they can be brought out and cultivated.

8. SOAKING (G) of seeds with very hard shell will hasten germination. The best plan is to drop them in quite hot—almost boiling—water and leave them in there



until the seeds show signs of swelling up, when they must be sown at once. Some seeds will lay over for one, two or even three years, even after they may have been soaked.

9. WASHING.—Some seeds are covered with a thick pulp, which has to be removed before sowing (H) by macerating them in warm water and then washing them.

10. STRATIFICATION (D, F) is needed for seeds which would dry up if left uncovered during winter, and for such seeds which generally "lay over." For this purpose take boxes or flower pots and fill them in fall with alternate layers of sand and seed. Then bury the vessels until spring in sheltered places where mice cannot reach them, and in spring sow them out as usual.

11. SOWING UNDER GLASS (I) is advisable for the very fine seeds of the plants belonging to the heath family and others. Use pans filled with finely sifted peaty loam; give especially good drainage and water well before sowing. Cover seeds very thinly with soil, and mulch with light cover of chopped sphagnum. Do not allow the soil to get dry at any time, but avoid soaking. Keep the pans covered with glass bulbs or with panes all the time. As soon as germination begins, remove mulch and prick off as soon as first leaf is discernable. Transplant as often as possible and harden plants quickly so that they can be removed successfully to beds in the open ground in the spring of their second season.

12. CONIFERS.—Although seeds of many coniferous plants will retain their germinating power for several years, they ought to be sown as soon as possible after ripening to give best results.

Seeds of tender kinds or small quantities sow in boxes (7) or dishes, with good drainage and filled with sandy loam. Sow thin and press seeds lightly, and cover seeds very thinly with sand, or better with chopped sphagnum. A heavy cover will surely smother them. Be very careful with watering, and prick as soon as possible.

Seeds of hardy conifers and large quantities sow on seed-beds prepared as described above (12). Cover seeds very lightly and give a light mulch of sphagnum. Protect from the sun by lath screens or brush (4).

To protect the seeds from birds dip them in lead paint before sowing. Transplant conifers as soon and as often as possible to obtain stocky plants.

13. HERBACEOUS PLANTS.-If not sown in large quantities it will be found best to sow in boxes or pans, as described above (7). With many perennials a fall sowing will produce best results. Prick out the seedlings in other boxes, or plant them at once to their definite places. Some seeds of plants belonging to the pulse family and others will germinate much quicker and more evenly if they are soaked well before sowing (8), though some, like Lupinus diffusus, will even then lay over quite often for a whole year.

14. TENDER PLANTS.—These will be treated same as described above under 11, only the little plants must be potted instead of planted outdoors.

15. FERNS are to be sown under glass in well drained pans filled with coarse peat, or on pieces of peat placed in pans of water. The spores have to be sown very thinly and evenly and need not be covered, but they must be watched very closely to prevent any damping off. Keep even shade and moisture; for that purpose it is advisable to put the seed-pans or the pieces of peat in pans with water. Prick seedlings as soon as first leaf appears in coarse peat, and repeat transplanting as often as needed.

LIST SHOWING TIME OF SOWING.

A. Seeds to be sown at once after ripening.B. Seeds to be sown in fall.

Seeds to be sown in earliest spring. Ċ.

D. Seeds to be sown in fall or to be stratified.

E. Seeds to be sown after ground is well warmed in spring.

F. Seeds which must be stratified but which may "lav over."

G. Seeds to be soaked in hot water before sowing.

H. Seeds, pulp of which has to be washed before sowing.

I. Seeds of hardy plants to be sown under glass. J. Seeds of tender plants to be sown under glass.

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Acacia	ArctostaphylosI
AcerA	Ardisia J
AesculusJ	AsiminaE
AilantusC	AzaleaI
AlbizziaE G	
AlnusC	BerberisD
Althaea E	BetulaA
AmelanchierE F	BurseraJ
AmorphaE	1
Ampelopsis E H	CaesalpiniaG J
AndromedaI	CallicarpaE
AnonaJ	CalycanthusE
AntigononJ	CaricaJ
Arbutus	CarpinusA

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Carya D Castanea D Castanopsis B Catalpa C
CastanopsisB
CatalpaC CeanothusE
CelastrusD
CeltisD CercisE G
CerocardusC
CestrumJ ChiogenesI
ChionanthusD
ChrysobalanusJ ChrysophyllumJ
Clematis D
ClerodendronJ ClethraI
Cliftonia1
CoccolobaJ CordiaJ
CornusE F
CrataegusE F CrescentiaJ
DiospyrosD DircaE
DracaenaJ
EchitesJ
Eugenia J
EchitesJ EugeniaJ EvonymusH ExochordaD
FagusD
FicusJ FothergillaB
FothergillaB
FraxinusA FremontiaE F
Genipa J
GenipaJ GleditschiaB G
GordoniaE GynmocladusB G
HalesiaE F HamamelisE F
Hamolia I
HeteromelesE F
Hedera H Hedera H Heteromeles E F Hibiscus { E (hardy J (tender
llexF H
JuglausD
KalmiaI KoelreuteriaE
LeucothoeI
LigustrumH
LinderaE H LiquidambarE
LiriodendronE F LoniceraE
nomeeraE

MagnoliaE F I MangiferaJ MeliaE MyricaE
NegundoB NyssaE J
OleaE F OpuntiaI OstryaD OxydendrumI
PaulowniaE Persea{F F (hardy) J (tropical) PhotiniaE F PiscidiaJ PlatanusC PrunusE H PteleaB PsidiumJ PyrusE H
QuercusD
RhamnusD RhododendronI Rhus E Ribes D Robinia B Romneya E Rosa D Rubus B Rubus B Rubus B
Sambucus D Santolina J Sassafras E Schinus E Smilax D Solanum J Spiraea D Swietenia J
TamarindusJ TecomaE TerminaliaJ ThevetiaJ TiliaC F
UlmusA UmbellulariaE F
ViburnumE H VitisD
WistariaE
YuccaE
ZanthorrhizaB ZanthoxylumE

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