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62
J. Munson
1872

DEPT. OF AGRICULTURE
UNITED STATES GOVERNMENT

THE MUNSON NURSERIES



1900

DENISON, TEXAS,

1901

HORTICULTURAL INFORMATION.

So many of our customers write us for horticultural information (which we have ever most gladly given by letter, until the questions have become too numerous for us to longer thus answer) that we have, after careful examination, selected the following list of works of most approved authorship, and arranged to mail direct to those ordering at publishers prices given below.

These books and journals answer your questions in the best manner. This catalogue also contains a vast amount of information, and if carefully studied will answer a large number of questions. If, however, neither the Catalogue nor the Books cover your questions, we will gladly answer them provided \$1 is sent to cover time, gathering information, etc. To customers sending cash orders we will make no charge to answer their questions. In writing questions put them on separate paper and distinct from the order.

Nearly everyone of these books is profusely illustrated. The journals named are of the highest standard.

American Fruit Culturist. J. J. Thomas, revised, enlarged.....	\$2 50
American Grape Training. Including Munson's Trellis System. Prof. L. H. Bailey.....	75
Bailey's Field Notes on Apple Culture.....	75
Bailey's Principles of Fruit Growing. Just published; a superb work.....	1 25
Black's Cultivation of the Peach. Including a chapter on Pears.....	1 50
Bushberg Grape Manual. Most valuable work on Am'n Grapes. Newly rev'd enlarged..	1 00
Elliott's Practical Landscape Gardener. The planting of ornamental grounds....	1 50
Fruits and Fruit Trees of America. Downing. A complete encyclopedia of Pomology	5 00
Fuller's Small Fruit Culturist. Covering all classes of small fruits.....	1 50
Fungus Diseases of the Grape and other Plants, and Treatment. Scribner....	75
Hand-book of Tree Planting. Where, how and what to plant for groves and forests....	75
Harris' Talks on Manure. Treating the entire subject in a practical way.....	1 75
Henderson's Gardening for Profit.....	2 00
Henderson's Practical Floriculture.....	1 50
Horticulturists' Rule Book. Rules for the practical gardener. Prof. L. H. Bailey.....	1 00
Husmann's American Grape Growing and Wine Making. Latest revised edition	1 50
Irrigation Farming. Lute Wilcox. The best book on the subject; profusely illustrated.	2 00
Johnson's "How Crops Grow." Exceedingly important to one who would succeed... 2 00	
Oemler's Gardening for the South. Treating of vegetables and fruits.....	1 50
Quinn's Pear Culture for Profit.....	1 00
Strawberry Culturist. Fuller.....	25

JOURNALS: American Agriculturist, weekly, \$1; American Gardening, weekly, \$1; Rural New Yorker, weekly, \$1; Texas Farm and Ranch, weekly, the best of all southern agricultural and horticultural journals, \$1; Southern Florist, monthly, \$1; Western Fruit Grower, monthly, 50 cents; National Stockman and Farmer, weekly, \$1. Any other horticultural journals desired sent at publishers' rates.

CARE OF TREES ON ARRIVAL.

Be careful, in unpacking, to note everything, and immediately "heel-in" in moist soil till planted, or plant at once! Never allow the roots to dry, or failure will most likely result,

PREPARATION OF THE TREE FOR PLANTING.

Before planting, remove all broken and extra long roots with a sharp knife, cutting from below outward, not from above downward. One-year-old peach or apple trees should be cut back to a naked stem $1\frac{1}{2}$ to 2 feet high; leave no side branches. Two-year-old trees should have their branches cut back to their half length or more, the lower less than those above; cutting in shorter as you go upward, and leaving the leader the longest. Plant as deep as the tree stood in the nursery row, except dwarf pears and cherries, which should be planted sufficiently deep to cover the stock from two to three inches.

PLANTING THE TREE.

The ground should be thoroughly plowed and sub-soiled at least fifteen inches deep. If to be set in land which cannot be plowed, dig holes not less than eighteen inches deep and three feet across. Then fill up with rich, mellow earth, but no fresh manure, to such a point that the tree set thereon will stand the same depth in soil, when hole is filled, as it stood in the nursery row. Lean the tree to the south considerably and fill in among the roots carefully with mellow soil, and when completely covered an inch or two press the soil firmly down with the foot, after which level up the hole with loose soil, which should not be tramped. If the soil is dry pour in a bucket full or two of water before filling the hole, and when settled away level up with loose soil. Keep the soil thoroughly pulverized about the tree and free from weeds during the growing season. Do not water through the summer time by pouring water on top of the ground, but dig trench around the tree and fill with water every evening until ground is thoroughly saturated below the roots, then no more watering will be needed for two weeks. Partial surface watering kills more trees than it saves. Water only in drouth when trees show need of it.

For more detailed information on this subject and on future care of the trees we respectfully refer you to American Fruit Culturist or Bailey's Principles of Fruit Culture, found in the list of books named above.

✻ Introductory. ✻

To Our Numerous, Intelligent, Discriminating Customers :

The following careful, truthful descriptions are of far more value in making successful selections than would be the grandest set of pictures that could be executed. Therefore, study the descriptions, and preserve this Catalogue, for it will be found a most valuable horticultural work of reference. Our methods of propagation are those pursued by the largest, most intelligent and most successful planters of commercial orchards.

Those varieties throughout the catalogue, outside our special list of Grapes, preceded by (*), were introduced by us after careful testing, and we are proud of them. They are generally making excellent records, and some have become recognized standards.

In some cases, varieties heretofore included in our Catalogue, are omitted. Some of these are dropped, as others included are better for the same season, and of some we have no stock to offer this year; such may be inserted when we again have stock of them. Please do not order varieties not named in this Catalogue.

While we have a reputation for making a specialty of Grapes, we have by no means neglected other departments or classes of fruits in our line of business. All have had the same vigilant care in testing, selecting and propagation, so that we will be found up with the times in all things.

In our experimental department, we systematically test all new, very promising varieties as they come out, and ourselves originate numerous varieties of grapes, plums, persimmons, etc. By carefully combining the best strains, and testing for a series of years in various localities, we from time to time introduce those proving superior to others in cultivation of the same season. We especially call attention to our new Grapes, and to varieties throughout the Catalogue printed in CAPITALS.

Planters for Market purposes. We have long made a specialty of supplying those who plant largely for market, and have given splendid satisfaction, as many large orchards, vineyards, and small fruit plantations in all parts of the country attest. To such parties we will make very low prices, on specified lists made out from the Catalogue, either delivered on cars at Denison, or at purchaser's railway depot, but we can not make lower prices than those named in Catalogue on quantities found priced in the Catalogue, or for any order for less than \$20. Read further on under "How to Use Our Scale of Prices."

TELEPHONE connection, local and long distance. 'Phone 49.

Address,

T. V. MUNSON & SON,
Denison, Texas.

THOSE WHO INTEND TO ORDER OF US SHOULD NOT FAIL TO READ THE FOLLOWING.

TERMS, CONDITIONS, SHIPPING, ETC.

Cash (by Draft, Money Order or Registered Letter) with order will secure prompt filling. No goods shipped unless cash or satisfactory security accompanies the order. If personal checks are sent, include 15 cents for collection, which amount they cost us. Orders held until personal checks are collected. Time, risk and expense saved by remitting by postal or express order, or bank draft. Please use order sheet in Catalogue.

To secure goods not wanted sent at once, send one-half the cost with the order. No reserve will be made otherwise. Goods will be shipped "C. O. D." only when one-half payment is sent with order.

Our responsibility ceases after delivery, according to the prices and specifications named below, under "We Prepay Freight," and "Prices," except for mistakes in filling which must be reported immediately after receipt of goods, to admit of adjustment. A double system of checking is employed in putting up orders, so that mistakes are rare, and sometimes customers complain of an error and afterwards find it was their own mistake.

Every care is taken to secure safe and prompt transportation. Goods are carefully packed in moss or straw, well baled or boxed.

It is always better to ship by Express, unless the amount of stock is large. Nursery stock goes by express at especially low rates.

APPLES.

Plant Apple trees in the South 20 feet apart north and south by 30 feet apart east and west, requiring 73 trees per acre. Best corn or cotton sandy land is suitable.

Read Bailey's Field Notes on Apple Culture, price 75c.

Prices—Except where noted.

	3 to 4 feet			4 to 5 feet		
	Each	Per 12	Per 100	Each	Per 12	Per 100
Packed on cars at Denison . . .	\$0 10	\$1 00	\$6 00	\$ 15	\$1 50	\$ 8 00
Packed and prepaid to your depot	12	1 25	8 00	18	2 00	12 00

This list has been well tested, and found uniformly and continuously successful in the Southwest. The varieties ripening in June and July are the most successful in South Texas. Late varieties do little or no good there. All the varieties named succeed well in Northern Texas and Indian Territory. The extra early apples should be more extensively planted in the South, as they are one of our most certain and profitable fruits.

IN ORDER OF RIPENING.

JUNE IN TEXAS.

Duchess of Oldenburg. Prolific, striped, medium; good, tart; market.

Early Harvest. Vigorous, abundant; yellow, large; good; tart; table, cooking.

RED ASTRACHAN. Vigorous, productive; red, large; tart, market.

RED JUNE. Slow, prolific; red, small; good, tart; market, table. One of the most valuable for heavy planting in the South.

FANNY. New, vigorous; productive; red, large; excellent; market, table.

JULY.

SUMMER QUEEN. Abundant; striped; large; good, table, market.

AMERICAN SUMMER. Productive, striped, medium; best, table, market.

AUGUST.

BLED SOE. (Texan) Very fine, prolific, striped, large; excellent, table market.

Yellow Horse. Very vigorous, abundant; yellow, large; good, culinary.

JONATHAN. Good grower, prolific; red, medium; fine, market.

Maiden Blush. Vigorous, prolific; cream-blush, large; fine, market, cooking.

Mrs. Bryan. New; of Georgia origin. A very large apple of finest quality. Bright red all over. Excellent tree, prolific; fruit hangs on remarkably well without dropping or rotting.

CARTER BLUE. Very thrifty, abundant; striped, large; fine, market, cooking.

Ortly. Vigorous, productive; pale yellow, large; excellent, table, market.

DOYLE. Of Texan origin. Large, striped; excellent, prolific.

SEPTEMBER.

Buckingham. (Equinately.) Good, abundant; striped, large; excellent, market.

Shannon. Strong, slow bearer; yellow, very large; best, table, cooking.

RED WINTER. Good, prolific; red, medium; fine, table, market.

TWENTY-OUNCE. Very large, striped.

OCTOBER AND LATER.

BRADFORD. (Kentucky Streak.) Strong, abundant; striped, large; very good, market.

WINESAP. Prolific; red, medium; very good, market.

BEN DAVIS. Hardy, vigorous, profuse; striped, large; good, market.

***Rutledge.** This variety originated in Travis county, Texas. Tree vigorous and productive; fruit large, handsome, richly striped, resembling the Bradford somewhat, and of still finer quality than that splendid variety; it ripens shortly after the Ben Davis. In this, we believe, we have one of the most valuable of all Southern apples.

GANO. Vigorous, prolific; bright red, large; good market; this variety is similar in every way to the Ben Davis, but of a rich red all over; very valuable.

TEXAS RED. One of the most highly esteemed apples in East Texas. Large, striped; fine; excellent keeper.

Maverack Sweet. Vigorous, abundant; red cheek, large; very good, market or home.

Nickajack. Vigorous, abundant, large, striped; very good; market or home.

ARKANSAS BLACK. Vigorous, abundant; dark red, medium; excellent market; seedling of Winesap.

APPLES--Continued.

KINNAIRD. Strong, spreading tree, prolific; red, large; a superb Southern winter apple; the best of all Winesap seedlings.
SHOCKLEY. Vigorous, abundant; red cheek, medium; best keeper.
LIMBERTWIG. Vigorous, prolific; red, medium; very good keeper.
SHIRLEY. (Texan.) Vigorous, prolific; striped medium; excellent

keeper.
LOY. Vigorous, prolific; red cheek, large; best keeper.
ARKANSAS. (Mammoth Black Twig.) A splendid, large, dark red Arkansas apple. A fine Winesap seedling.
Yates. Very vigorous, prolific; striped, small; cider or dessert; keeps very late; best quality.

CRAB APPLES.

Price, 1-5 more than Apples in all cases.

Whitney. Vigorous, prolific; striped, large; cider, jelly, preserves.
Hyslop. Vigorous, prolific; crimson; large, ornamental, preserves.

PEARS.

Plant 18 feet apart each way, requiring 135 trees per acre. Pears root very deeply, and succeed on almost any soil if kept free from blight. Except Le Conte and Bartlett, the varieties named below are freest from blight.
 Read Quinn's Pear Culture for Profit—Price \$1.00.

PRICES—Except where noted.

	Each	Per 12	Per 100
Packed and on cars at Denison	\$0 25	\$2 50	\$17 00
Packed and prepaid to your depot	30	3 00	20 00

IN ORDER OF RIPENING.

***Lexington.** Tree very healthy, but of a dwarfish habit, grown on pear root, and inclined to bear at two to four years of age. Fruit is about the same size, shape and color of Bartlett, but earlier by two weeks, and of about equal quality. So far no blight has attacked it. Very promising. \$1 each.
Alamo. Originated by A. L. Bruce, of Grayson county, Texas. Tree so far entirely exempt from blight. Vigorous, bears young. Large, yellow; bronze cheek. Ripens early.
Clapp's Favorite. On pear; prolific; red cheek, large; excellent, table.
HOWELL. On pear or quince; prolific; yellow, large; best, table, market.
Bartlett. On pear or quince; pro-

lific; yellow, large, fine, table, market.
Le Conte. On own roots; prolific; yellow, very large; good, table or market.
SECKEL. On pear, prolific; brown; small; best, table.
Buffum. On pear; prolific; brown, small; fine, table.
ANGOULEME. (Duchesse.) On pear or quince; pale yellow; very large; good, market.
ANJOU. On pear; moderate grower, moderate bearer; brown blush, medium; fine, table.
KEIFFER. On own roots; very vigorous, prolific; yellow, very large; an excellent pear for canning; rarely blights or fails to bear.

QUINCES.

Plant 10 to 12 feet apart each way. Quinces need very rich, deep, well-drained soil; they are better for careful culture.

PRICES.

	Each	Per 12	Per 100
Packed and on cars at Denison	\$0 20	\$2 00	\$12 00
Packed and prepaid to your depot	25	2 50	13 50

Meech. Very fine and prolific; none better in growth or quality of fruit.

APRICOTS.

Plant 18 feet apart each way, requiring 135 trees per acre. Succeed best in limestone soils; bloom very early in spring. Should be treated like peaches. Very successful in most parts of the West, on high ground.

PRICES.

	Each	Per 12	Per 100
Packed and on cars at Denison	\$0 20	\$2 00	\$11 00
Packed and prepaid to your depot	25	2 50	14 00
✓ Myer. Earliest; medium size, good; prolific.	✓ CLUSTER. This valuable variety was introduced by A. M. Ramsey & Son. It is claimed to have never missed bearing any season since its introduction.		
✓ EUREKA. Very early; large, fine, prolific.			
✓ Early Golden. Very early; medium, deep yellow; prolific.			
✓ ROYAL. Early; large, excellent; one of the very best.			
✓ Moorpark. Medium, large, excellent.			

RUSSIAN APRICOTS.

ALEXANDER, BUDD and GIBB.
The three best varieties of this strain.

ALMONDS.

Plant 18 feet apart each way, requiring 135 trees per acre. Almonds succeed in irrigated region of Western Texas, New Mexico, Arizona and California.

PRICES.

	Each	Per 12	Per 106
Packed and on cars at Denison	\$0 20	\$2 00	\$18 00
Pack and prepaid to your depot	25	2 50	20 00
✓ Languedoc. A leading variety; grown for commerce.	✓ Ne Plus Ultra. Produced by Mr. Hatch, of California.		
✓ Terragona. A large variety; also much grown for commerce.	✓ Sultana. A standard and popular market variety.		
✓ Nonpareil. Produced by Mr. Hatch, of California.	✓ Princess. Very fine, thin shelled; rich, good flavor.		

CHERRIES.

Plant 18 feet apart each way, requiring 135 trees per acre. Require very best drouth-resisting soil.

PRICES.

	Each	Per 12	Per 100
Packed and on cars at Denison	\$0 25	\$2 25	\$18 00
Packed and prepaid to your depot	30	2 75	20 00
✓ Early Richmond. An old, popular, reliable variety; very productive.	✓ English Morello. Similar to Early Richmond; later.		

FIGS.

Plant 10 feet apart, north and south, by 12 feet apart, east and west, requiring 383 trees per acre. Require very rich, deep soil.

PRICES.

	Each	Per 12	Per 100
Packed and on cars at Denison	\$0 25	\$2 50	\$18 00
Packed and prepaid to your depot	30	3 00	20 00
✓ Brunswick. Large, brownish purple; good quality; productive.	if killed to ground in winter.		
✓ Celestial. Medium size, pale purple, very sweet, of finest quality. One of the best for eating fresh; prolific and sure. Bears on sprouts first year, even	✓ Magnolia. Yellowish white; bears on young shoots first year if tops are winter killed.		
	✓ Smyrna. Large pale purple. Very prolific and fine.		

PEACHES.

Plant 18 feet apart each way, requiring 135 trees per acre. Thrive best on high, well drained, sandy loam, with clay subsoil, but do well in black lands.

Read Black's Cultivation of the Peach. Price, \$1.50.


IN ORDER OF RIPENING.

Each "ripening" extends over a period of 10 to 15 days, and embraces white and yellow-fleshed, free and cling varieties, where possible. Nearly all the varieties have been critically tested by us along with numerous other kinds, in four successive test orchards, planted and fruited within the past 25 years in different soils and situations. Not a variety is included which has not been tested by experienced and critical orchardists and pronounced valuable for the particular purpose and sections for which it is recommended. Desirable qualities in tree, as well as fruit, have been considered.

Those varieties followed by the letter *a* only are recommended for amateur of family planting. In size and quality of fruit they are usually the very finest, but not prolific or firm enough, or of the right season for a profitable planting, except in very favorable localities. Those followed by *c* are recommended for canning; those followed by *e* are recommended for evaporating; those followed by *m* are recommended for marketing fresh; those followed by *c e m* will make an excellent "all purpose" variety.

The letters following the description of each variety, refer to the comparative size of the flower. The letter *s* indicates small flowers; *m* medium flowers; *l* for large flowers; and *vl* for very large flowers. As a rule the large flowered varieties are the surest fruiters. The varieties named throughout this list, however, are all good bearers.

While some of the following list do not succeed in the Gulf regions, the following have been found to do well there: Mamie Ross, Family Favorite, Old-mixon Free, Elberta, Bequett Free and Cling. The entire list succeeds well in all other parts of the Southwest.

 We challenge the world to excel this list of Peaches.

PRICES—Except where noted.

	3 to 4 feet		4 to 6 feet			
	Each.	Per 12.	Per 100.	Each.	Per 12.	Per 100.
Packed and on cars at Denison	\$0 10	\$1 00	\$6 00	\$0 15	\$1 50	\$ 8 00
Packed and prepaid to your depot	12	1 25	8 00	18	1 85	11 00

I.

Ripening at Denison May 20 to June 10.

SNEED. *m.* Earlier, larger, and better than Alexander; less inclined to rot. *l.*

ALEXANDER. *m.* Well known old standard; Extra early. *l.*

STROUT EARLY. A peach resembling the Alexander, but not quite so large; a perfect freestone, firmer flesh, better quality, free from rot and a sure bearer, making it one of the best early market varieties. The flesh streaked with red, often pronounced blood color. This peach originated with F.W. Strout of the Indian Territory. Price \$1. each; \$8 per 12, either in prepaid or f. o. b. orders.

TRIUMPH. *m a.* Large, yellow, freestone, mostly covered with red: most attractive extra early Peach yet produced. Will certainly become very popular as a market fruit. We have fruited it and can guarantee the description true. *l.*

Greensboro. *m.* Of the same class and description as the Mamie Ross, ripening earlier. Originated in North Carolina. *vl*

II.

TEXAS KING. *m.* Of the same class

and character with the Mamie Ross; better quality. Origin east Texas. *l.*

***MISS LOLO.** *a m.* A perfect freestone; fine quality; blush, white flesh; prolific. *l.*

MAMIE ROSS. *a m.* Very large blush; white flesh; semi-cling; prolific; very valuable. *l.*

HYNES' SURPRISE. *m.* True freestone when ripe; resists rot better than Hale's Early, which it resembles. *l.*

***BISHOP.** *m.* Very large, crimson, white flesh; free; a very valuable market sort, sure and prolific. *m.*

Alice (Haupt.) *m.* Chinese Cling seedling; prolific, large, fine. *m.*

CARMAN. *c m.* Origin in Limestone county, Texas. Large, of fine appearance and quality; firm, free from rot; highly praised; best of its season. *l.*

III.

Ripening at Denison June 10 to July 10.

✓ **Yellow St. John.** *a c m.* Where it succeeds well it is exceedingly profitable. Does well in California and Eastern and Western Texas. Tender in bud here like Crawford. *s.*

PEACHES—Continued.

General Taylor. *a m.* Large; flesh blood red, crimson all over; cling of Indian Blood type; productive. *m.*

Eldred. *a m.* A crimson cling of immense size Origin Southern Texas. *m.*

MOUNTAIN ROSE. *c e m.* Large, round; white flesh, red cheek; free. *s.*

IV.

***FAMILY FAVORITE.** *m e c.* Large; white flesh, red cheek; free, sure, prolific; seedling of Chinese Cling. This is making a most favorable record everywhere. Better than Thurbet. *m.*

MRS. BRETT. *m c e.* Similar to Oldmixon Free, but about a week earlier; sure, prolific; best quality. *s.*

Foster. *a e c m.* Earlier and finer quality than Early Crawford; very handsome. More certain cropper. *s.*

V.

Ripening at Denison July 5 to 20.

GEN. LEE CLING. *a m.* Seedling Chinese Cling, but earlier and more prolific; better. *v l.*

Crawford Early. *a m.* Tender in bud; an old, valuable standard variety. Fine in West Texas. *s.*

OLDMIXON FREE. *m c e.* Large; white flesh, red cheek; fine prolific, sure. An old "stand-by." *s.*

ELBERTA. *m c e.* Very large; yellow, red cheek; free, firm, sure, prolific, best of all. For vigor, certainty and abundant bearing, this variety has no superior; for fine appearance, good shipping qualities and ready selling, for canning and evaporating, it stands without a peer. It cannot be too extensively planted. *m.*

Chilow. *m c e.* Very much like Elberta in color, size, shape and quality, except this is a cling. Good shipper. Very much praised in Travis county, Texas. Chinese Cling seedling. *v l.*

TORNADO. *m c e.* A peach that originated with W. S. White, of Grayson county, Tex. Equals Elberta in every respect except quality and productiveness, in which it excels Elberta. Of the same season, color and blood. *m.*

***SUPERB.** *m c e.* Seedling of Early Rivers, crossed with Mountain Rose. Pure freestone; white flesh, red cheek; a very prolific and profitable peach; finest quality. *l.*

***CHEROKEE.** A white freestone; free from worms and rot; claimed by F. W. Strout, of Vinita, I. T., to be the

best eating peach he ever tasted; sure, has borne in seasons when all other varieties failed. \$1 each, \$8 per 12, f. o. b. or prepaid.

Crosby. *m c e.* Large, yellow freestone; sure bearer and prolific. *m.*

Chinese Cling. *a.* Largest size; oblong; greenish cream, faint blush. *l.*

***Utah Free.** *c e m.* Large, prolific; rich yellow; valuable. *l.*

***Utah Cling.** *m.* Large, prolific, yellow, red cheek. *l.*

***SHIPLER.** *c m.* Yellow, cling; produced by A. L. Shipler, of Denison, Texas. Valuable; resembles the Elberta, except being a cling. *s.*

VI.

Ripening at Denison July 20 to August 10

SYLPHIDE. *m c.* Cling; large, white flesh, red cheek; prolific, sure; seedling of Chinese Cling, than which it is more prolific. *l.*

BEQUETT FREE. *m c e.* Largest size; white flesh, red cheek; productive, firm, superb; possesses Chinese blood; a sure bearer. *s.*

Orange Cling. *c m.* Large, clear, yellow; sweet rich, juicy, prolific. *m.*

DRUID HILL. *m e c.* Large; white flesh; red cheek; free; prolific; old reliable kind. *s.*

STUMP. *m e c.* Large; white flesh; red cheek; free; reliable. *s.*

BEQUETT CLING. *c m.* Very large; white flesh, red cheek; productive, fine; as large as Chinese Cling, and possesses some Chinese blood. *s.*

OLDMIXON CLING. *m c.* An old standard variety; large, white flesh, blush. *s.*

VII.

Ripening at Denison August 10 to 25.

***Columbia.** *c e m.* Large, dull orange-yellow, mottled with red; free; sure. *l.*

CROTHERS. *m e c.* Large, white flesh, red cheek; best, productive, superior to Ward's Late. *m.*

***RAISIN.** *a m.* Of the Indian Cling type, crossed with Heath. Large, juicy, prolific; splendid. The finest in quality of any cling known to us. *l.*

VIII.

RINGGOLD. *c m.* A greatly improved seedling of Heath Cling; superb white, sweet. *s.*

***Crimson Beauty.** *m c.* Very large; white flesh, crimson surface; cling; prolific. *l.*

PEACHES—Continued.

IX

Ripening at Denison September 10 to 25.

Wonderful. *c e m.* A remarkably fine yellow freestone of the Smock type. *m.*

HENRIETTA or **Levy.** *m c.* Very large, cling; yellow, crimson cheek; sure. *s.*

***BONANZA.** *c e m.* Very large; white flesh; red cheek; free; prolific, vigorous. *m.*

LONOKE. *a m.* Large, yellow; cling; prolific; late, sure. *l.*

***Topaz.** *c e m.* Large, yellow; free; red cheek; prolific: late. *l.*

***Cobbler.** *c e m.* Large, yellow; free; prolific, vigorous tree; valuable. *m.*

X

Ripening a Denison into October.

***Barnes.** *a m.* A fine, very late yellow cling of Indian type. Originated

in Bell county, Texas, by Barnes Parker. *l.*

***BELL OCTOBER.** *c e m.* Large, rich yellow, red cheek; freestone; of finest quality. Originated by Hon. C. C. Bell, of Denton county, Texas. *s.*

***Success.** *c e m.* Prolific, sure; latest yellow, freestone; large, excellent. Originated in our grounds and offered with confidence in its merits. *l.*

EVERBEARING PEACH. This remarkable novelty, very recently introduced by P. J. Berckmans, has fruited with us without giving any evidence of being everbearing in habit. It belongs to the group of Indian Blood Peaches. Size large at first ripening, but decreases gradually as season advances. Creamy white, striped, oblong. Flesh white with red veins; juicy. Not recommended for commercial orchards. *l.*

PLUMS.

Plant 18 feet apart each way, requiring 135 trees per acre. Succeed on thinner land than the peach, with more clay, and thrive where the peach will. This list is superb. Varieties of each class generally stand in order of ripening, and all succeed well nearly everywhere. The cream of hundreds tested.

Read American Fruit Culturist. Price \$2.50.

PRICES—Except where noted.

	Each	Per 12	Per 100
Packed and on cars at Denison	\$0 20	\$1 75	\$10 00
Packed and prepaid to your depot	25	2 40	13 00

Varieties of special prices include prepayment.

CHICKASAW VARIETIES.

Bloom very early.

McCartney. Of Texas origin. Ripens with the earliest Plums. Large, oblong, pure yellow. Tree strong and productive. 50 cents each, \$4 per 12.

Chickasaw Varieties of the Wild Goose Type (*P. Hortulana*).—(BAILEY.)

Bloom early to medium.

MILTON. Wild Goose crossed on Americana. Better than Wild Goose, equally as large; handsome and productive; red; excellent. The earliest

plum on the list although it blooms late. Persistent to the tree after ripening. Free from curculio and rot. Have fruited it several seasons.

***CLIFFORD.** This splendid plum was produced by Mrs. Clifford, of this city, from seed of Wild Goose; pear shaped, red, meaty, with fine, pineapple flavor. After fruiting this variety for several years, we unhesitatingly pronounce it the best, handsomest and most profitable plum of this class. Ripe a week earlier than Wild Goose. Fruit taken to market with abundance and Burbank sells quickly at much higher price.

PLUMS--Continued.

WILD GOOSE. Vigorous; red, large, very good; abundant when pollinated by other varieties flowering at the same time. Burbank a good pollinator.

WOOTEN. Good grower; red, medium; very good; prolific, sure. Trees of this planted near or among Wild Goose, pollinate its flowers, causing it to bear well. Pools Pride is a synonym.

Whitaker. Improvement in tree and fruit on Wild Goose, of which it is a seedling, by J. T. Whitaker, of Smith county, Texas.

Gonzales. A Japan variety crossed with Wild Goose. Fruit very large and of a brilliant red. Finest of flavor. Good shipper and keeper. Tree very strong and immensely productive. Very highly praised by those who have seen and grown it.

***BESTOFALL.** A seedling of Miner hybridized with Abundance. Tree very vigorous. Flowers very late. Very sure and prolific bearer. Fruit medium to large, round, rich, red; firm, meaty, of best quality. Originated by us. Has fruited three successive seasons. Always very full and free from an attack of rot and curculio. Only a few trees at \$1 each.

Prunus Rivularis Varieties.

Bloom very late.

***Nimon.** Hybrid, produced by us, of Wayland pollinated by Wild Goose. Tree very vigorous and healthy, productive; fruit large as Wild Goose; crimson, with white dots; very handsome, ovate, firm, meaty, and of excellent quality. A plum of much promise.

Wayland. Vigorous; crimson, medium, good, firm; very prolific; sure.

GOLDEN BEAUTY. Vigorous; yellow, medium, good; free, very prolific; unailing.

Americana Varieties.

All this class flower very late, and are sure fruiters.

Miner. Vigorous; red, good, prolific; sure, well tested, profitable; very late. The Miner, we, with most other

nurseries in the Southwest, have been, by error, selling as Weaver. The true Weaver is not nearly so valuable a plum.

Wilder. One of the newer varieties of great promise. Quality fine.

***NEWTON.** Vigorous, healthy; very prolific, unailing cropper; very large, red; freestone of best quality.

Japanese Varieties.

(*Prunus Triflora.*)

Red June. Medium size, slightly conical; solid, dark red color, with yellow flesh; ripens early; sure bearer.

ABUNDANCE (Botan.) Vigorous, upright; large, purple, good; very prolific, sure; best of all Japan varieties.

BURBANK. Very vigorous, spreading; very large, purple; profitable.

CHABOT (Douglas, Hytankayo.) A strong upright tree; fruit very large, crimson, with white bloom; excellent, prolific, valuable.

European Varieties.

(*P. domestica.*)

Clyman. Large, purple, prolific, very fine; early.


GIANT. Produced by Luther Burbank; largest of all prunes; very vigorous; purple; fine quality; sure, very late; 50 cents each.

Pacific. This is a new prune of the Pacific coast, of first-class merit as a commercial prune; 50 cents each.

Silver Prune. Very large, pale yellow; fine quality, late; does not rot.

Tragedy. Large, dark purple; very rich and sweet; freestone; very valuable as a shipping plum.

Tenant. A very fine prune originated in state of Washington; large, purple, of best quality. 50 cents each.

 The above prunes are recommended for regions where European plums are known to do well, as in Western Texas and New Mexico, where rot and curculio do not prevail. Clyman and Silver are doing well here, but do not begin bearing until the fourth to sixth year. Giant bears young and is very promising.

MULBERRIES.

Plant 20 to 25 feet apart, requiring 109 trees per acre. Flourishes in any soil or situation.

PRICES.

	3 to 4 feet			4 to 6 feet			6 to 8 feet		
	Each.	Per 12.	Per 100.	Each.	Per 12.	Per 100.	Each.	Per 12.	Per 100.
Packed and on cars at Denison	\$0 10	\$ 1 00	\$7 00	\$0 15	\$1 50	\$10 00	\$0 20	\$2 00	\$15 00
Packed and Prepaid	12	1 25	9 00	18	2 00	13 00	25	2 60	20 00

HICKS EVERBEARING. Profuse bearer of fruit for three months; fine grower for shade; the best of all trees for the fowl yard, as the fowls greedily eat the berries.

Downing. A larger, better berry than Hicks, not so prolific, and not so hardy as that variety.

Victoria. One of the best Russian Mulberries yet produced; very fine.

Munson. One of the largest, most prolific and best Mulberries of the Russian class. Originated by us, selected from among thousands of varieties grown from seed. The branches in fruit look like ropes of big berries.

BLACKBERRIES.

Plant 2 feet apart in rows, rows 7 feet apart, requiring 3,112 plants per acre. Succeed anywhere. Read Fuller's Small Fruit Culturist. Price \$1.50.

PRICES.—The prices following each variety include prepayment. If prepayment is not desired, then deduct 15 cents from the dozen rate, 50 cents from the hundred rate, and \$2.00 from the thousand rate.

IN SUCCESSION.

SORSBY MAY. A Blackberry larger than Early Harvest, and of better quality, and ripens about a week earlier. Very productive and a good shipper; very valuable on account of its extreme earliness. Price \$1 per 12; \$5 per 100.

EARLY HARVEST. Vigorous, upright; few weak thorns; very prolific; medium size, firm; profitable market. 50 cts. per 12; \$2 per 100; \$10 per 1,000.

DALLAS. Very vigorous, drooping, thorny, productive; large, fine. This is proving to be a very valuable market variety. 50 cts. per 12; \$2 per 100; \$10 per 1,000.

ROBISON. Very vigorous, upright, prolific, uniformly very large; of best quality. Sells at the highest market price. Originated by Willard Robison,

of Cisco, Texas. It has fruited here for a number of years in the grounds of Mr. Jas. Nimon, and has proven itself one of the most valuable varieties in cultivation. It endures the climatic hardships most excellently. Price, 75 cts. per 12; \$3 per 100; \$20 per 1,000.

EUREKA. A native of Alabama. Introduced by Mr. H. A. Biles, of Denton county, Texas. This belongs to the species *Rubus cuneifolius*, a very distinct species. Plant vigorous, upright, exceedingly prolific, of very long handsome berries, exceedingly sweet, with a distinct flavor, very firm, most thoroughly adapted to the Southern climate. Endured 15 degrees below zero, February 12, 1899, and bore heavy crop that season. Price, 50 cts. per 12; \$3 per 100; \$15 per 1,000.

DEWBERRIES.

MAYES. (Syn., Mayes' Hybrid, Austin's Improved, Austin-Mayes.) This originated at Pilot Point, Texas; we have the genuine. It is exceeding large, fine and early; prolific. 10 cts. each; 50 cts. per 12; \$3 per 100; \$18 per 1,000, prepaid; or 40 cts. per 12; \$2.50 per 100; \$15 per 1,000 not prepaid.

SERVICE BERRY.

Success. Very similar to the Blue Berry or Huckleberry, but very successful in the South. Ripe in May. Price, 10 cts. each; 90 cts. per 12; \$6 per 100, f. o. b. 12 cts. each; \$1 per 12; \$7 per 100, prepaid.



ROBISON.

For description and price see page 10.

RASPBERRIES.

Plant 3 feet apart in rows, rows 5 feet apart, requiring 2,994 plants per acre. Need best drought-resisting soil, on eastern or northern slope.

PRICES. (Except Cardinal.)

	Each	Per 12	Per 100
Packed and on cars at Denison	\$0 10	\$0 50	\$4 00
Packed and prepaid to your depot	12	60	4 50

Palmer. This comparatively new variety is considered the largest and best of the early black-caps. **Kansas.** A very large, excellent-fruited black-cap; one of the best for a dry, hot climate.

These are the best black-cap varieties among the many we have tested.

CARDINAL. Originated by Mr. A. H. Griesa of Kansas. One of the hardiest red raspberries for the hot climate of the South and West. Likewise endures the extremes of winter. Very vigorous and healthy. The berries are large, dark red, ships well, very productive. Those who have tried and tested it speak most highly of it. Superior to Cuthbert.

Price: 75c. each, \$7.50 per 12, f. o. b. or prepaid.

STRAWBERRIES.

Read Fuller's Strawberry Culturist. Price 25c.

Plant 16 inches apart in rows, rows 3½ feet apart, requiring 9,000 plants per acre. Deep loamy, sandy soil, with clay sub-soil is preferable.

PRICES. (Except Parker Earle, and Michel's Early, which note.)

	Doz.	Per 100.	Per 1,000.	Per 5,000.
Packed and on cars at Denison	\$0 25	\$0 75	\$3 50	\$15 00
Packed and prepaid to your depot	35	1 00	5 00	20 00

Our plants are not like those handled by many growers—weak, old and mixed—but young, vigorous and pure. The very best varieties by actual test for the Southwest. Handled in the very best manner. We test nearly all varieties of any promise as they come out. The following are the cream for this climate:

MICHEL EARLY. Earliest of all; large, vigorous, perfect flower; a fine pollinator for other kinds. \$3 per 1,000 f. o. b.; \$4, prepaid.

LADY THOMPSON. Large, even size; good color, early and productive; good shipper; fine flavor; strong, healthy; perfect flower.

CRESCENT. Early, prolific; bright; excellent market; pistillate; needs Michel Early to fertilize it.

Splendid. Perfect flower; vigorous and very prolific; large, round, bright red, handsome berry, firm.

CLYDE. Large as Bubach, earlier and firmer, strong, productive. Large, regular, bright scarlet berries. Perfect flower.

BUBACH NO 5. Large, handsome; productive, valuable; very successful here; pistillate, needs Splendid or Parker Earle to pollinate it.

***PARKER EARLE.** Still leads every other variety in productiveness. Plant robust, free from disease, stooling heavily and renewing itself sufficiently by strong runners. It is a model in makeup, endures the extremes in heat and cold remarkably well. Berry regular, uniformly large, conical, with a neck; glossy scarlet-crimson, ripens all over; flesh firm, crimson; no hollow core; seeds golden, becoming crimson, prominent, protecting in handling; quality excellent. Flowers perfect, always setting perfect fruit, which is borne in the greatest profusion, the rate of 16,000 quarts per acre having been gathered. The fruit carries well, and brings the very highest price in market. Price f. o. b. at Denison, 50 cts. per 12, \$1 per 100, \$5 per 1,000. Price, prepaid, 60 cts. per 12, \$1.35 per 100, \$7 per 1,000. We have the best strain.

GRAPES.

We lead all competitors in this field. Plant 8 feet apart in rows, rows 9 feet apart; requiring 605 vines per acre.

Read:—American Grape Training, 75c, Bushgrape Grape Manual,

\$1.00. Fungus Diseases of the Grape, 75c. American Grape Growing and Wine Making, \$1.50.

STANDARD LIST.—Named in order of ripening.

Have a large stock of finest quality. This list contains the best and most successful; have tested all these, with hundreds of others. Flowers perfect, and will bear alone unless otherwise noted; when pistillate, they need a perfect-flowered kind planted near. With irrigation in West Texas and westward all varieties in the list succeed. East of the 100th meridian, the Bordeaux mixture spray will enable many varieties to succeed that without it fail on account of rot and mildew. In most regions all varieties do better if treated with Bordeaux spray.

By repeated comparison it is certainly established that yearling grape vines, as we grow them, outclass No. 1 Northern grown 2-year-olds, and our 2-year olds are so strong that if planted early, say from November to February, they are capable of bearing without injury several clusters the first year. Hence our prices are much cheaper than they appear to be by comparison with other's prices. A weak grape vine is not worth planting at any price.

PRICES:—Remember that the prepaid prices are for orders of \$5 or over, and within the states named on page 2 of body of Catalogue.

PRICES—Packed
f. o. b. Denison.

P'k'd prep'd to
your depot.

	Each	Dozen	100	Each	Dozen	100
Moore Early. Very large, black; good market. Texas northward.....	\$0 08	\$0 75	\$ 5 00	\$0 09	\$0 85	\$ 6 00
GREEN MOUNTAIN. New; above medium, white; prolific, good. Texas northward.....	20	2 00	15 00	21	2 15	15 75
Wyoming Red. In cluster similar to the Delaware, but larger, and twice as large in berry; bright, beautiful red; good, profitable for market.....	10	1 00		11	1 10	
NECTAR. Said to be Concord-Delaware hybrid. Vine fairly vigorous, prolific. Cluster and berry of similar appearance with Concord, not quite so large. Ripens evenly. Quality the best of any of the Concord family yet tested by us.....	25	5 00		30	5 20	
McPike. Vine very vigorous and prolific. Very much resembles the Concord, its grandparents; cluster and berry larger than Concord, firmer, more persistent to cluster, ripens evenly and of much better quality than Concord, fully as good as Campbell's Early and nearly equal with Nectar.....	1 00	9 00		1 00	9 00	
Campbell Early. Is superior in every respect to Concord, and ripens two or three weeks earlier. Best production of G. W. Campbell, of Ohio. Ripens evenly, persistent to cluster.....	1 00	10 00		1 00	10 00	
MOORE DIAMOND. One of the finest white American grapes; Texas north.....	10	1 00	8 00	11	1 10	8 75
IVES. Medium, black; fair market, wine; free from disease. Texas north.....	05	50	4 00	06	60	4 75
Perkins. Large, pink; fair market, prolific, healthy. Texas northward.....	05	50	4 00	06	60	4 75
Brighton. Large red; fine table, market, wine; pistillate. Northward.....	05	50	4 00	06	60	4 75
DELAWARE. Small, very fine; table and market; little or no rot; successful.....	08	75	5 00	09	85	6 00
Norfolk. New; large, red; fine table and market, wine. Texas northward.....	10	1 00	8 00	11	1 10	8 75
RED GIANT. A variety produced in Pennsylvania. Cluster, medium, compact; berry immensely large, one to one and one-quarter inches in diameter; color dark red; skin thick and tough; pulp rather tender, sweet and of agreeable flavor, possessing the characteristic of <i>Labrusca</i> muskiness. Vine vigorous, healthy and prolific. Ives or Perkins are good pollinators for it, as it does not pollinate itself.....	50	4 00	30 00	50	4 15	31 00
Lindley. Large, red; very good table and market; pistillate flower, northward.....	05	50	4 00	06	60	4 75
Salem. (Rogers No. 55). Bunch and berry large, dark chestnut-red, sweet, rich and tender; good shipper; vine vigorous.....	07	60	4 50	08	75	5 00
Agawam. (Rogers No. 15). Similar to Salem, with still larger berries, darker red; peculiar, agreeable flavor; vigorous, prolific.....	07	60	4 50	08	75	5 00
Worden. Very large, black; good market. "Improved Concord".....	05	50	4 00	06	60	4 75
NIAGARA. Large white; very good table, market; successful.....	08	75	5 00	09	85	6 00
Martha. Large white; table, wine. For same region with concord.....	05	50	4 00	06	60	4 75
CONCORD. Large, black; table, market; well known. Texas northward.....	05	40	3 00	06	50	3 75
Eaton. A seedling of Concord with large clusters of enormously large, black berries; new vigorous; succeeds with Concord.....	15	1 50	10 00	16	1 60	10 75
CATAWBA. Cluster and berry large, dark red; juicy, sprightly, fine; fine for market, table and wine.....	05	50	4 00	06	60	4 75
JEFFERSON. Large, red berry, large cluster; best table, market. Texas north.....	10	1 00	8 00	11	1 10	8 75

GRAPES.—Continued.

Triumph. (Campbell's) Very large, white; best table. Texas to Missouri.	10	1 00	8 00	11	1 10	8 75
Goethe. Very large, pink; fine table, North Texas to Missouri.	05	50	4 00	06	60	4 75
Norton. (Cynthiana.) Small, black; fine red wine. All Southern states.	10	1 00	6 00	11	1 10	6 75
Jacquez. (Black Spanish, Le Noir, "Blue French.") small, large cluster, black; red wine. Succeeds well in all southwest Texas.	10	1 00	6 00	11	1 10	6 75
BERTRAND. Vine similar to Herbemont. Origin in Georgia. Cluster very large; berry small to medium, dark purple, red juice, fine, sprightly.	30	3 00	20 00	31	3 15	21 00
HERBEMONT. (McKee, Botsi, "Brown French.") Small, large cluster, purple; finest quality, table, wine; best old grape in Southwest Texas.	10	1 00	6 00	11	1 10	6 75

SOUTHERN MUSCADINES.

Succeed in deep, rich soil throughout the South; require much trellis room. Plant 16 feet apart in vineyard rows; prune early after leaves fall.

THOMAS. Very large, black; good wine; 1 year old.

SCUPPERNONG. Large, brownish yellow; good wine; 1 year old.

The above varieties, .15 cts. each; \$1.50 per 12, f. o. b. at Denison; 16 cts. each; \$1.60 per 12, prepaid.

Male Muscadines. If planted near

the former, this variety renders the two varieties named very fruitful anywhere in the South. Without such pollinators planted near by they are unfruitful. 25 cts. each; \$2.50 per 12, prepaid; \$2.25 per 12, f. o. b.

See "A New Departure in Grape Hybrids," page 24.

EUROPEAN (VANIFERA) VARIETIES.

Plant 8 feet apart in rows, with rows 9 feet apart, requiring 605 vines per acre. Read Fungus Diseases of the Grape. Price 75 cts.

PRICES.

	Each.	Per 12.	Per 100.
Packed on cars at Denison	\$0 10	\$1 00	\$7 00
Packed and prepaid to your depot	12	1 15	8 00

These succeed in far South and West Texas, especially with irrigation, equally as well as in California, but fail entirely in Central and East Texas owing to phylloxera, rot, mildew, etc.; but by grafting on resistant roots and spraying with Bordeaux mixture, succeed in all but extreme North Texas, and with winter protection can be fruited there.

We have in our vineyard, on sandy soil, the following list, growing and fruiting successfully selected from among a large number of the finest French, Spanish, Hungarian, Italian, Sicilian and Persian varieties. Some are of recent importation. We have no grafted vines for sale, but can supply cuttings of the best resistant stocks for the South and California by mail at \$2 per 100. We also offer rooted graft-stocks, which see, page 29.

The remarks with reference to mildew and rot are of vines in open ground, not sprayed at Denison, Texas.

CALABRIAN. (Italian.) Of muscat type; vigorous, healthy, some black-rot; cluster very large, compound; berry large, roundish, yellowish, meaty, juicy, fine; table, market, raisin.

FEHER SZAGOS. (Hungarian.) Very vigorous, healthy: fruit subject to rot; Persian type; cluster very large; berry cylindrical, ellipsoidal, curved like Cornichon; white meaty, very fine; table, market, raisin.

GOLDEN CHAMPION. (Californian.) Vigorous, some mildew and rot; cluster large; berry large, ovate, yellow, late, fine, juicy; table, market.

GRIESA (DE PIEMONTE.) (Italian.) Vigorous, healthy, very little mildew or rot, cluster very large, compound; berry large, purplish black, meaty, juicy, very fine; table, market, white wine. 50 cts. each, \$5 for 12, prepaid.

MALAGA. (Spanish.) Vigorous, healthy; cluster very large; berry large, meaty, ovate, white; table, market, raisin.

MILLENIUM. (Hungarian.) Received through American Consul to

Hungary. Large cluster; large, oval, white berry, of pure sprightly quality. Vine very vigorous and comparatively free from disease.

OLIVET (DE CADINET.) (Italian.) Vigorous, some black rot; cluster large; berry large ovate, purplish black, meaty, juicy; table, market, wine.

QUAGLIANO. (Sicilian.) Vigorous; prolific, little mildew and no black rot; cluster large; berry large, round, grayish purple, meaty, juicy, fine, late; table, market.

SAUVIGNON JAUNE. (French.) Vigorous, healthy, little mildew and rot; cluster large, compact; berry medium, yellow, meaty, tender, early; table, white wine.

Verdelho. (French.) Vigorous, healthy; fruit rots; cluster large; berry large, ovate, yellowish, meaty, juicy; table, market.

VIOLET CHASELAS. (French) Vigorous; mildews and rots; cluster large; berry large, ovate, violet, beautiful, superb quality; table, market wine.



Beacon.

Hybrid, Big Berry x Concord.

MANZ

The Cream of "New Creations" in American Grapes.

The following list of grapes includes all of our introductions of varieties originated by our senior, T. V. Munson, not discarded, from the time the Brilliant and Rommel were first introduced, up to and including the introductions of the past season. We have combined in the following list, the lists heretofore mentioned in our previous catalogues as "New Creations," "Introductions of 1898," "Black Land Grapes," and the "Onward and Upward Series." In the following list the varieties are named in their alphabetical order, and not in the order of ripening, as in the Standard List, however, the time of ripening is stated with each variety and in comparison with other well known varieties.

As these varieties become more and more extensively planted, cultivated and tested throughout the country, their great value becomes more apparent and better known, and nothing but praise is given them, and they are now rapidly taking the place of the better old varieties. With these varieties we have held the field in market against all comers while the old standard varieties were in season, and we have had the field entirely to ourselves with the later varieties after the standard varieties were all gone,—two months or more here.

We wish to call especial attention to the description of the varieties, particularly to the fact that the descriptions are very accurate and critical, and no attempt has been made to "blow" or "puff" the variety, and this is why the varieties seem to lack the flaming descriptions generally given to new kinds. If all the old or standard varieties were given the same careful and accurate descriptions as these varieties, then by comparison it would at once be seen how far above the older varieties these varieties stand.

In the descriptions we have used some botanical terms, and to those not familiar with such terms we will briefly explain here. The peduncle is that part of the stem of the cluster between the berries and where it is attached to the vine. When the berry is said to be persistent, it means that it hangs tightly to the cluster and does not shake or drop off. When the skin is mentioned as being tough it in no way implies that the pulp is tough, but a tough skin is a desirable quality in a grape, for it is less liable to crack. The Delaware is an example of a very thin but tough skin, while its pulp is very tender and juicy. The Elvira, for example, has a tender skin and cracks.

All the varieties possessing Post Oak blood, in order to get best results in cropping, should be treated the same as Herbeumont, that is, plant wide apart, as much as twelve to sixteen feet in the rows, and have long arm pruning. They do especially well upon the Munson Canopy Trellis, mentioned in American Grape Training, by Prof. L. H. Bailey, price 75c. Distance apart to plant and kind of pruning required for best results are mentioned with each variety.

Prices.

- For America, Brilliant, Carman, Presly, Rommel:
 20c each; \$1.50 per 12; \$12 per 100 f. o. b. Denison.
 25c each; \$1.65 per 12; \$13 per 100 prepaid.
- For Beacon, Delago, Fern Munson, Gold Coin, Hermann Jaeger, Muench, R. W. Munson:
 25c each; \$2.50 per 12; \$15 per 100 f. o. b. Denison.
 30c each; \$2.65 per 12; \$16 per 100 prepaid.
- For Big Extra, Big Hope, Delicious, Hopkins, Laussel, Marguerite, Mrs. Munson:
 30c each; \$3 per 12; \$19 per 100 f. o. b. Denison.
 35c each; \$3.15 per 12; \$20 per 100 prepaid.
- For Atoka, Champanel, Kenena, Kiowa, Lukfata, Manito, Neva Munson, Ok-taha, Olita, Wetumka, Xlnta, Yomago:
 50c each; \$4 per 12; \$30 per 100 f. o. b. Denison.
 50c each; \$4.15 per 12; \$31 per 100 prepaid.
- For Bailey, Early Purple, Jaeger's 43, Marvinna, Wapanuka:
 75c each; \$6 per 12; \$40 per 100 f. o. b. Denison.
 75c each; \$6.15 per 12; \$41 per 100 prepaid.
- For Husmann:
 \$1 each; \$8 per 12 f. o. b. Denison or prepaid.

AMERICA. (Seedling of Jaeger, No. 70). Growth very strong. Clusters conical, sufficiently compact. Berries very persistent, medium size, globular, black with little bloom, and scattering-ly dotted jet black with white speck in

center of dots; skin thin and tender but does not crack; pulp melting, juicy, easily freeing the slender seeds; when fully ripe very rich in sugar having measured as high as 120° on Oeschle's scale, which is higher than Delaware ever gets; also rich in agreeable acid; possesses a very distinct peculiar flavor, much liked by some; not foxy; making a good combination market and wine grape. A very good port wine has been made from it without "fortifying." Ripens at Denison, Texas, July 20 to August 1st, a little after Concord, and always evenly. Very prolific with long arm pruning and when pollenized by other varieties, as it does not thoroughly pollenize itself. Beacon is a good mate. For several years it has sold as well as Concord with equal satisfaction, and much more profit, as it far out-yields it. Endures the severest drouth with ease. Has passed through 27° below zero without damage. Not attacked by mildew, rot, or leaf folder, and has given excellent results in California as a resistant graft stock for Vinifera varieties. Adapted South and North. Plant 12 to 14 feet apart.

✓ **ATOKA.** (America x Delaware). Growth vigorous. Clusters large, slightly conical to nearly cylindrical, often with short shoulder, fairly compact. Berries persistent, small to medium, globular, dark, purplish red, with little bloom; skin thin and sufficiently tough, never cracks; pulp juicy, tender, very sprightly, and agreeable when ripened, easily freeing the seeds; rich both in sugar and in acid; quality pure and fine, sells readily in the market and gives satisfaction. Resists disease and climatic changes excellently. Adapted South and North. 10 to 12 feet apart. Long arm pruning.

✓ **BAILEY.** (Big Berry Post-Oak x Triumph). Growth strong. Clusters large to very large, cylindrical or often branched, generally compact. Berries persistent, large, black, with little bloom; skin thin and tough, never cracking; pulp meaty but not tough, juicy, sprightly, of pure very good quality, considerably above Concord; seeds readily parting from pulp. Ripe July 10 to 30. The foliage is attacked to some extent by mildew, but is easily prevented by spraying. A valuable market grape easily superseding Concord, especially in Southcentral and Southwest Texas where it has done remarkably well. 10 to 12 feet apart; medium to long pruning.

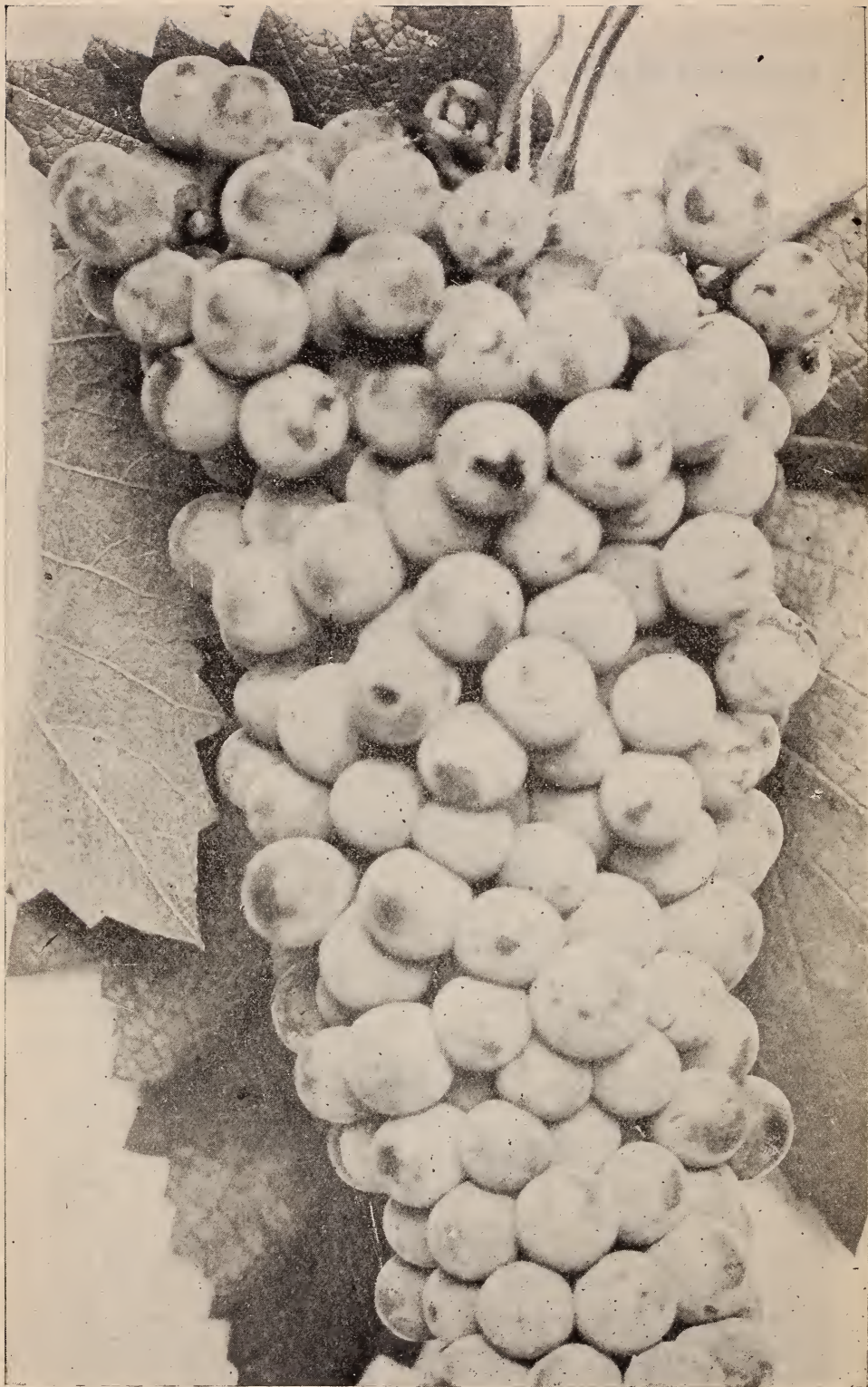
✓ **BEACON.** (Big Berry Post-Oak x Concord). Growth medium in South

Texas, strong in North Texas, to very strong in Missouri. Very prolific, of large cylindrical clusters, often shouldered, moderately compact. Berries as large or larger than Concord, black with rather heavy white bloom, hang to cluster about equally well with Concord but not so well as Bailey; skin a little tougher than Concord, never cracks; pulp rather more tender than Concord, very juicy, sprightly and of a very similar flavor to Concord, rather more agreeable, seeds readily leave the pulp. Ripe here July 15 to 25. The vines have continuously borne very heavily and endured the climatic hardships well in Texas and in Missouri and Illinois, passing 27° below zero at Palmyra, Missouri, in the grounds of Dr. Jaudon, and bore heavily the following season. Adapted South and North. Dr. B. A. Jaudon says that Beacon and Fern are the best two grapes in cultivation for his region, near Quincy, Ill. 8 to 10 feet.

✓ **Big Extra.** (Big Berry Post-Oak x Triumph). Growth strong; cluster oblong to cylindrical, sometimes shouldered, moderately compact. Berries persistent, globular, medium to large, dark purple to black, with moderate bloom; skin thin, tough, never cracks; pulp tender, juicy, sprightly, agreeable, sweet; seeds easily parting from the pulp. Ripe July 25 to August 10. Does well in South Texas. 10 to 12 feet, long pruning.

✓ **BIG HOPE.** (Big Berry Post-Oak x Triumph). Growth strong, similar to Big Extra. Not attacked by mildew or rot, and excessively prolific. Clusters very large, often forked and rather open; berries persistent, globular dark red, handsome; skin thin, tough, never cracks; pulp tender, sprightly, juicy, of good quality; seeds easily parting from the pulp. Ripe July 25 to August 10. Handles and sells well in the market after Concord is out. Adapted for the South. 8 to 10 feet, short pruning.

✓ **BRILLIANT.** (Lindley x Delaware). Growth strong. Vine endures winters anywhere up to 15° below zero. Endures Texas climate well. Clusters large, cylindrical, or somewhat conical, often shouldered, open to compact. Berries large, globular, light to dark red, translucent, with a thin bloom, very handsome when well ripened; skin thin, rather tender but seldom cracks; pulp meaty, yet very tender, melting and delicious, usually preferred for table and eating fresh to Delaware, with which it outsells 5 to 10 cents per eight pound basket in the markets where it is known. Seeds readily part from the



HUSMANN.
(Description on page 20.)

pulp. Ripens just before the Delaware and yields on an average fully twice as much. It ships about equally well, or better than Concord. Its foliage is less attacked by mildew than Delaware and spraying with Bordeaux Mixture will entirely prevent this. Endures heat and drouth fairly well, much better than Concord. Making a fine record in Georgia, as well as in Texas. Adapted South and North. Fine reports of it from New York. 8 feet, short arm pruning.

CARMAN. (Post-Oak No. 1. x Triumph). Growth vigorous; foliage never attacked by leaf-folder or mildew; very prolific. Clusters large to very large, have reached two pounds in rare instances, shouldered or branched, conical, very compact. Berries persistent, medium, globular, black with thin bloom; skin thin and tough, never cracking; pulp meaty, firm, yet tender when fully ripe, of pure rich quality, much superior to Concord; seeds easily leaving the pulp. Vines now thirteen years old have borne ten heavy crops, show no signs of decline. Has always been one of the most profitable varieties with us and greatly praised in many sections of the South as far north as 40° latitude. Ripe one to three weeks after Concord is gone. Will hang on the vines many days after becoming ripe without deteriorating. Plant 10 to 12 feet apart. Medium pruning.

CHAMPANEL. (Barnes x Worden). Growth rampant, exceedingly resistant to heat and drouth, growing well in limy black soils. Clusters large, conical, with long peduncle, rather open. Berries globular, large, black, with white bloom, persistent; skin thin, tough; pulp tender, juicy, very sprightly, acid unless well ripened, then quite agreeable; seeds rather large, easily leaving the pulp. Ripe about with Concord, which it resembles very much in cluster and berry. Does well in any soil, but valuable for the black waxy lands of the South, where few other varieties will grow. Ripens evenly and not given to cracking or dropping as is the Concord or Worden in the South. 10 to 12 feet. Long arm pruning.

DELAGO. (Delaware and Goethe). Growth moderate, a little stronger than Delaware and foliage less inclined to mildew. Clusters below medium, very much the shape of Delaware. Berries large, ovate, persistent, dark red with little bloom; skin thin, tough; pulp similar to Delaware but not so tenacious, and freeing the seeds easier; very juicy, rich, with Muscat flavor. A splendid shipping, market and table

grape. The flower has reflexed stamens, and some perfect flowered variety blooming at same time, such as Beacon. Brilliant or Delaware growing near, is necessary to have it bear well. Succeeds in same regions with Delaware.

DELICIOUS. (Big Berry Post-Oak x Herbemont). Growth moderate, but healthy and enduring. Clusters medium, conical, rather open with long peduncles. Berry medium, globular, black, with little bloom, persistent; skin tough; pulp tender, very juicy, delicious, sweet and sprightly. A fair market grape and very promising for wine. 10 feet. Adapted to the South

EARLY PURPLE. A pure native Post-Oak found in the woods near Denison. Growth strong and healthy. Clusters large, cylindrical and shouldered. Berry large, persistent, a rare quality among most of the native Post-Oaks; purple. Ripe about August 1. Quality fair. Specially recommended as a mother for breeding on account of its fine qualities of vine and fruit. The flowers having reflexed stamens, require other varieties near with perfect flowers to make it fruit, hence any of its seedlings will most likely be hybrids or crosses. 10 to 12 feet.

FERN MUNSON. (Post-Oak No. 1. x Catawba). Growth very strong. Clusters medium to large with long peduncles. Berries globular, medium to large, very persistent; very dark purplish red to nearly black; skin thin, tough; pulp firm but not tough; very juicy, sprightly, with very agreeable Catawba flavor when fully ripe; seeds leave the pulp readily. Ripens very late in August or early in September, and hangs on until frost if desired, becoming excellent in quality and giving full satisfaction in market. Very profitable as it ripens when all old varieties are gone. Free from black rot. Has endured 27° below zero and has borne well the following season. It endures drouth excellently. Adapted for the South and north to latitude 40°.

GOLD COIN. (Norton x Martha). Growth medium. Clusters medium or above, ovate shouldered, proper degree of compactness. Always sets a crop of well filled clusters; peduncle medium to long. Berries large, globular, yellowish when fully ripe, persistent; skin thin, tough, never cracks, and rarely attacked by rot; pulp about same consistency as in Concord, very juicy and exceedingly sweet; retains a little of the Martha flavor, liked by most persons. Very handsome in the basket and markets excellently; has always been very profitable. Ripens with Ca-

tawba, endures all extremes of climate well. Favorable reports of it from all parts of the South, and as far north as 40° latitude. 8 to 10 feet. Medium arms.

HOPKINS. (\$10 Prize Post-Oak x Norton). Growth very strong. Not attacked by mildew, rot or leaf-folder. Endures climatic hardships well. Clusters very large, conical, branched, compact. Berries globular, black, with little bloom, medium size; skin and pulp similar to Norton, quality nearly as good. Will yield fully twice as much as Norton under same conditions. A valuable red wine grape. Ripens a week later than Norton. 12 feet. Long arms. Adapted through all the South as far north as 40° latitude.

HERMANN JAEGER. (Post-Oak No. 1. x Herbemont). Growth very strong, endures the Texas climate well. Clusters large to very large, shouldered, conical, very compact; peduncle short. Berries small to medium, black, persistent; skin thin, tough, does not crack; pulp tender, very juicy, easily freeing the seeds. Quality better than Concord. A profitable market and table grape. Ripens a week later than Concord. Not attacked to any extent by mildew, rot or leaf-folder. Valuable in Southwest Texas especially and successful throughout the South.

HUSMANN. (Armlong x Perry). Growth vigorous, endures Texas climate well. Clusters very large, long, cylindrical, sometimes shouldered, on medium peduncles, compact. Berries medium size, globular, black, persistent; skin thin, delicate, yet tough; pulp melting, very juicy, sprightly, of high pure flavor. More satisfactory by far as a market and table grape than Herbemont, and excellent for red wine. Very prolific even on short arms. Ripens with Herbemont and belongs to same range of country. 10 feet.

JAEGER 43 Although not of our origin it is probably the most valuable Post-Oak Grape ever found. It is the mother of a very promising family of hybrids, and we offer it where our customers desire a pure Post-Oak. Clusters large to very large, compact. Berry medium, very late in ripening. Excellent quality. Free from disease. Has reflexed stamens, hence needs some very late flowering variety, such as Kiowa, planted near it. 12 to 14 feet long pruning.

KENENA. (America x Post-Oak.) Growth very strong. Cluster medium to large, cylindrical with long peduncles. Berries small to medium, dark purple, nearly black, globular, persist-

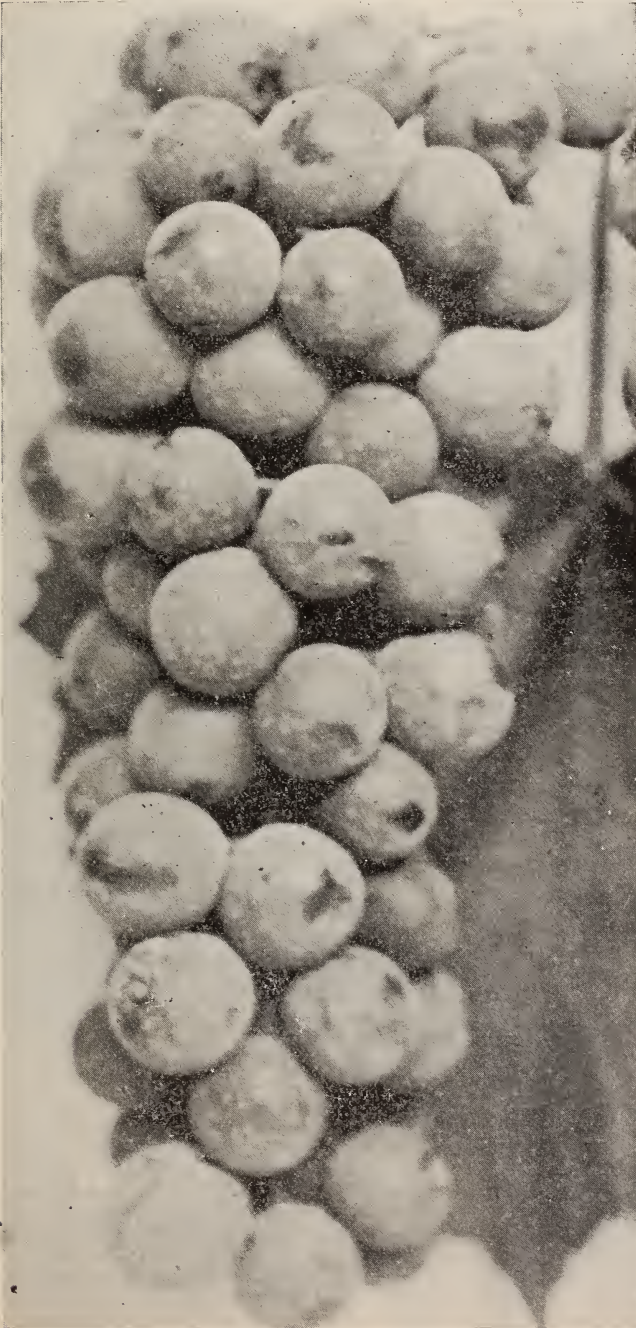
ent; skin thin, tough; pulp tender, juicy, sprightly, agreeable quality. Ripe just before Herbemont. Very healthy, a fair market and good wine grape. Endures heat and cold excellently. 10 to 12 feet, long pruning. Adapted throughout the South.

KIOWA. (Jaeger 43 x Herbemont). Growth very strong and healthy. Cluster large, cylindrical, shouldered, and sometimes branched; peduncle of medium length. Berries small to medium, a good size, larger than the Herbemont. Juice Red. Rarely touched by rot. A good market and an excellent wine grape. Ripens after Herbemont a week. Requires wide planting and long pruning, 12 to 14 feet. Adapted for the South.

LAUSSEL. (Post-Oak No. 2 x Gold Coin). Growth strong, not attacked by rot, mildew or leaf-folder. Vine endures drouth and cold excellently. Cluster ovate, very compact, medium size, short peduncle; berries medium or above, purplish, nearly black, globular, persistent; skin thin, tough; pulp firm, juicy, sprightly, sweet and well flavored. Ripens very late, just after Fern Munson, about September 1st to 5th, and hangs on into October if desired. Vines quite fruitful and profitable. Sells well in the market. Makes a fine white or amber wine, the juice having little coloring matter. Adapted for the South. 10 to 14 feet, long pruning.

LUKFATA. (Barnes x Moore Early.) Growth strong. Endures heat, drouth and cold remarkably well. Succeeds in black, limy soils. Not injured by mildew. Cluster medium, ovate, sometimes shouldered, compact; berries globular, large, persistent; does not crack; pulp about same as Moore Early, more juicy and very sweet and agreeable. Ripens early and evenly. Sells in the market as well or better than Concord, and ships far better. Little attacked by rot. A good market and a fair table grape. Flowers have reflexed stamens, hence it must grow near some variety with erect stamens flowering at same time, such as lves, then it bears well. Plant 10 to 12 feet apart. Give long pruning.

MANITO. (America x Brilliant.) Growth very similar to America, endures extremes of climate very well. Clusters long cylindrical, rather open, with long peduncle; flowers perfect, bears well alone, very prolific; berries medium, globular, persistent, dark purple with white specks; very distinct and unique in appearance; skin thin and tough; pulp very tender, juicy,



MANITO.

This grape is destined to play an important part as a very early, prolific, profitable market grape. See description on page 20. It grows well, bears well, sells well, and is not injured by disease, and will hang on vine a long time in excellent condition.



sweet and agreeable, parting from the seeds with ease. Ripens very early about with Moore Early, packs beautifully and ships excellently. A very profitable market grape, also a good wine grape. Adapted for general North and South. 8 to 10 feet, medium arms.

MARGUERITE. (Post-Oak No. 2 x Herbemont.) Growth very strong, not attacked by mildew, endures Texas climate perfectly. Clusters medium, cylindrical, shouldered with short peduncle, compact. Berries a good size larger than Herbemont, globular, dark purple, persistent; skin thin and tough, never cracks; pulp tender, juicy, sprightly, about equal to Herbemont. Ripens some three weeks later than Herbemont and hangs on through October and sells well in the market. It makes a fine white wine. A shy bearer on short arm pruning, but on long arms it bears heavily. Succeeds everywhere in the South. A splendid arbor grape. 14 to 16 feet.

MARVINA. (Laura x Brilliant) Growth medium; foliage healthy, rarely attacked by mildew. Clusters above medium, cylindrical, often shouldered, compact; peduncle short. Berries medium to large, globular, persistent, clear yellowish white; skin thin, delicate does not crack; pulp meaty, tender delicious, easily freeing the small seeds. Ripe with Green Mountain, than which it is better in quality and less subject to rot; better adapted to Texas climate and promises to succeed wherever the Niagara does well. Equally hardy as Delaware. 8 feet, short pruning.

MRS. MUNSON. (Neosho x Herbemont). Growth vigorous, little attacked by mildew in wet sultry weather, much less than Delaware. Clusters medium to large, cylindrical to subconical, shouldered compact with medium peduncles. Berries medium to small, grayish purple, globular, persistent; skin thin and delicate, yet tough; pulp tender, very sweet and agreeable. Ripe with Herbemont, much less subject to rot, sells well in the market and an excellent shipper, and a fine white wine grape. Well adapted to the Southern climate. 10 feet, medium length pruning.

MUENCH. (Neosho x Herbemont). Vine similar to Mrs. Munson, but stronger grower; clusters and berries larger considerably; about equally good in quality but more sprightly. Berries good medium size; sells readily in the market. Ripens a little later than Mrs. Munson. Well adapted to

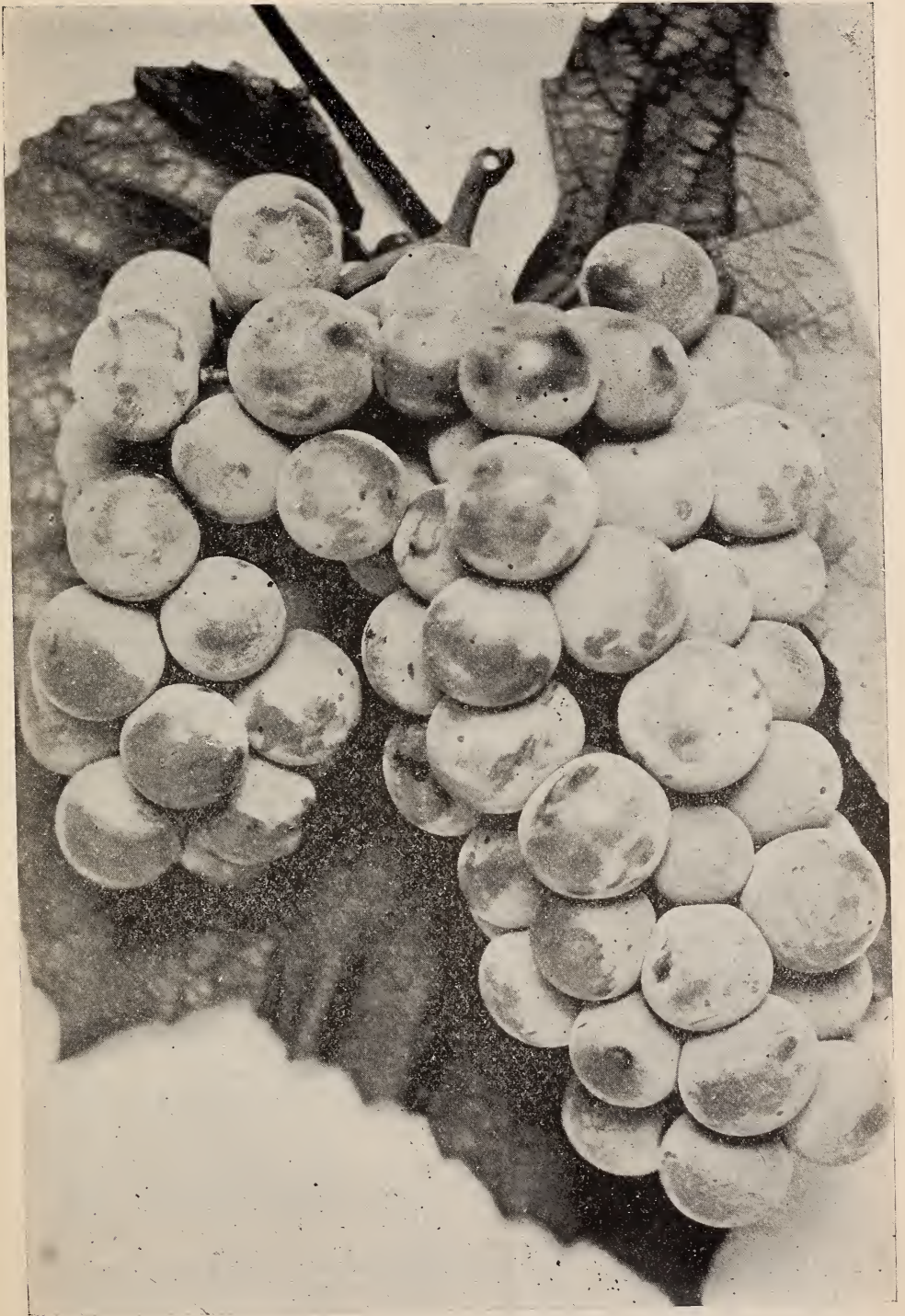
the South. 10 feet, long arm pruning.

NEVA MUNSON. (Neosho x Herbemont.) Growth very strong, never mildews. Clusters a little larger than Mrs. Munson, more compact, but berries never crack; same size and color of berries, quality fine and more sprightly. Ripens about two weeks later, about with Laussel. A fair late market grape and an excellent wine grape. A wine made of it and tested by the wine expert of the California Experiment Station, placed it among the best French wines. Require long arm pruning to bear heavily. 12 to 14 feet apart. Succeeds throughout the South.

OKTAHA. (DeGrasset x Delaware). Growth medium, healthy, well adapted to the Southern climate. Clusters small to medium, cylindrical, shouldered, much same shape of Delaware; peduncle short, moderately compact. Berries globular, medium to below, persistent, black, with little bloom; skin thin, tough; pulp very juicy, sprightly, very good. Ripens about with Ives, sells as well or better in the market, and much better for eating and a far better wine grape. Prolific, well adapted to black, waxy soils. 8 to 10 feet apart, medium pruning.

PRESLY. (Elvira x Champion). Growth medium, resists mildew and rot well. Clusters ovate, shouldered, compact, with short peduncle. Berries small to medium, a shade larger than Delaware, slightly ovate, moderately persistent, at first light red, becoming dark when fully ripe, handsome as Delaware when packed in baskets; skin thin, tough, does not crack; pulp tender, moderately juicy, fair quality, much better than Champion. Ripe with or before Champion, and a profitable first early market grape. Endures the climate better than Ives but belongs further north to be fully at home. 8 feet, short arm pruning.

ROMMEL. (Elvira and Triumph). Growth medium, endures climate better than Concord. Requires short pruning, prolific. Slightly attacked by mildew in wet, sultry seasons but less so than Delaware. Clusters medium to small, ovate or cylindrical, often shouldered, compact, peduncle short. Berries large, globular, persistent, greenish yellow when fully ripe, skin very thin and delicate, but rarely cracks on the vine; too tender for long shipment, carries well 50 to 100 miles; very profitable for a home market grape as it is always in demand on account of its most agreeable and fine eating qualities. Pulp melting and perfectly de-



WAPANUKA.
(Description on page 24.)

licious when well ripened, but acid when under ripe. Fruit rarely or not at all attacked by rot. Ripe just before Concord. Adapted for the North and South. 8 feet.

R. W. MUNSON. (Big Berry Post-Oak x Triumph). Growth strong. Clusters medium to large, cylindrical, often shouldered, peduncle medium. Berries, when well grown, medium to large, globular, persistent, black without bloom; skin never cracks; pulp tender, juicy and of a very good quality, better than Concord or Beacon. Ripe just before Concord. Gives good satisfaction on market. Bears heavily on long pruning and when pollinated by other erect stemmed varieties flowering at same time, its own pollen not being fully adequate, although its flowers are perfect. Concord and Brilliant good pollinators for it. Ships well. 10 to 12 feet apart. A. M. Bowman, of Salem, Va., after fruiting this variety, pronounces it the best American grape in vine and fruit.

WAPANUKA. (Rommel x Brilliant). Growth medium to strong, equal with Concord, less attacked by mildew than Brilliant. Cluster medium to large, cylindrical, shouldered, properly compact; peduncle short to medium. Berries large, five-eighths to seven-eighths inch in diameter, globular, persistent, rich yellowish white, translucent; skin very thin and delicate, yet seldom cracks and handles better than Rommel. Ripe about with Delaware. Far superior to Niagara and Green Mountain. For nearby market and table grape there is no other variety superior, if equal to it. Very prolific, requires short pruning. Succeeds well North and South. Undoubtedly one of the best, if not the best, table and eating grape produced in the United States. 8 feet.

WETUMKA. (Oneseed x Gold Coin). Growth medium, healthy with-

stands mildew and rot well. Clusters medium to large, ovate, sometimes shouldered; peduncle medium. Berries large, globular, persistent, yellowish green; skin never cracks; pulp juicy, tender, freeing the seeds easily; quality better than Niagara. Ripe late after Concord is off. Bears heavily on short arms. A profitable market and table grape and will make an excellent white wine. 8 feet. Adapted for the South, and same range of Gold Coin.

XLNTA. (America x R. W. Munson). Growth strong. Clusters large, cylindrical, shouldered with medium peduncle, fairly compact, unless not well pollenized, then loose; flowers have reflex stamens and perfect flowering kinds should be planted near, such as Brilliant, Delaware, or Gold Coin. Berries medium to large, globular, persistent, black with little bloom; skin thin, never cracks; pulp meaty, tender and of a very agreeable, sprightly quality. Ripe with or later than Concord. Very prolific on medium to long pruning, an excellent market and wine grape. Endures climatic extremes well. 10 feet. Adapted throughout the South and North to the Ohio River.

YOMAGO. (Delago x Brilliant). Growth medium. Endures against mildew better than Delaware, and fruit, like Delaware, rarely damaged by rot. Clusters about same shape, size, and compactness as Delaware. Berries good medium size, about twice as heavy as Delaware, translucent red, persistent; skin very thin, yet tough, never cracks; pulp very juicy and melting, much tenderer than Delaware, and of the purest, finest flavor, even excelling Delaware. Ripe a few days earlier than Delaware. Endures climate well and will succeed wherever the Delaware does well. Outsell the Delaware in market. A fine shipping grape. Eight feet, short arm pruning.

A NEW DEPARTURE IN GRAPE HYBRIDS. The most remarkable advance yet made in Grape Hybridization. The two varieties following are hybrids of the well known Scuppernong Grape. They are very vigorous, prolific, excellent in quality, and larger in clusters than any of the Muscadine varieties heretofore known. They are absolutely free from rot and mildew, and will succeed anywhere in the Southern States and California. Like the Scuppernong, they require male vine flowering at the same time, growing near to render them fruitful. To purchasers of these vines we furnish male vines free of charge. These mark a new era among Grape varieties in the South.

The "blizzard" of February 12, 1899, with temperature at 15° below zero, killed the James and DeSoto Grapes, top and root; the Scuppernong to the ground, and the Thomas back to the main trunk, while the San Jacinto and La Salle were the only two varieties of the Muscadine class that were not seriously hurt, and bore a partial crop. This adds a new value not known before to these varieties. Can be propagated only by layers, hence price will always be higher than cutting-grown varieties.

PRICE.—Per vine, prepaid, \$1 each; \$8 per 12, f. o. b., or prepaid.

LA SALLE. Very large berry, black; thin skin; tender pulp for this class of Grapes; quality equal to or better than Scuppernong. Ripens the earliest of any of this class. This and the next are hybrids of Scuppernong, with one of T. V. Munson's best Post-Oak Hybrid Grapes.

SAN JACINTO. Similar in berry and cluster to La Salle, the cluster being from two to three times the size of Scuppernong cluster; the quality is still better than La Salle. Ripens one to two weeks later than Scuppernong. Exceedingly prolific.

RESISTANT GRAFT STOCKS FOR GRAPES.

To meet the demand of some of our customers for good Stocks, resistant to phylloxera, on which to graft more delicate varieties of Grapes, especially the Viniferas, which thereby can be made very successful in many parts of the South, especially in Southwestern Texas, we have grown a small stock of the most approved, well tested species and varieties which we offer at the following prices:

	PRICES.	Each	Per 12	Per 100	Per 1000
Packed f. o. b. cars at Denison.....		\$0 10	\$0 75	\$5 00	\$25 00
Packed and prepaid to your depot.....		11	1 00	6 00	30 00

Vitis Doaniana. From the Panhandle of Texas. Several named varieties.
Vitis Longii (Solonis). From the Panhandle of Texas. Variety Hutchison. Can supply by the 1000.

Vitis Longii. Of the Red river region of North Texas. Variety Australis.

Hutporup. A hybrid of *Longii*, *Rupestris* and *Lincecumii*.

Valencia. Most vigorous, easy rooting, very resistant variety of *Vitis Bourquinana* or "Southern Aestivalis."

Vitis Champini. Adapted for very hot dry climate and very limy soils, although does well in any soil. Perfectly resistant and free from all diseases. Exceedingly deep rooting. Can supply plants in thousand lots if wanted. Can also supply cuttings of this species at \$10.00 per 1000 for 12 inch (three or more eyes) cuttings.

PUKWANA. A hybrid of the very best selected *Monticola* and *Rupestris*. Best adapted to very dry, limy soils. In every way a superior stock. Deeper rooting even than *Rupestris* St. George. Cannot offer at cheaper rate than the hundred rate quoted above even in larger lots.

All are especially adapted to the Southern States and California. The *Doaniana* is especially recommended for limy and black soils, while it does well in any soil. The *Longii* is better adapted to sandy soils. Include *Hutporup* for sandy soils in the South. Having been engaged for years in supplying vineyardists in France and California with resistant graft stocks for various soils, we understand this matter well, and have spent much time in selecting and producing the above varieties, which we recommend with great confidence. They all grow well from cuttings, and a few vines planted out will soon produce cuttings enough to supply any demand. We produce these only for the purpose of introduction, and don't propose to go largely into the graft stock business again.

We have growing in same soil, with same culture, side by side with the above named graft stocks, the most celebrated graft stocks selected and offered for sale by French vineyardists, namely: *Riparia Gloire de Montpellier*, *Riparia Ramon*, *Riparia x Rupestris*, 101-14, *Riparia x Rupestris* 3309, *Rupestris du Lot*, *Rupestris Ganzin*, *Rupestris Martin* and many others. In every case the varieties we offer are more vigorous, root equally well or better, are fully resistant to phylloxera, and take and carry the graft well, so that there may be no hesitancy in using these stocks in the soils and situations for which they are recommended.

JAPANESE PERSIMMON.

This remarkable fruit does well all through the South. These are grown from seeds of several of the finest Japan varieties that have all proved hardy and prolific here. Many that we have fruited of these seedlings have always been hardy, large, good and prolific, and give better satisfaction than grafted trees. We have never known a seedling Japan Persimmon to fail to bear. 40 cts each, \$3 per 12, prepaid; 35 cts. each, \$2.50 per 12, f. o. b. cars at Denison. Grafted varieties at same price.

AMERICAN HONEY PERSIMMON.

We have a tree of the native Persimmon found wild, bearing profusely of large, clear honey colored fruit of finest quality, preferred by all to even the finest Japanese kinds. The tree was moved into our grounds among the Japan varieties, and continues to fruit abundantly. It has few small seeds in comparison with most varieties. All things considered it is the finest Persimmon known to us. We annually grow some trees from seeds of this. About one-half of the seedling American Persimmons bear fruit, the others are male; hence in filling orders we put in two trees for every one ordered. 10 cts. each, \$1 per 12, \$8 per 100, prepaid; 90 cts. per 12, \$7.50 per 100, f. o. b. cars at Denison.

POMEGRANATE.

Spanish Ruby. This is a fruiting variety, and probably the finest in cultivation. Fruit 2 to 3 inches in diameter, containing within the rind numerous sprightly juicy berries. Succeeds everywhere within 300 miles of the Gulf. 50 cts. each, \$4 per 12, prepaid; 40 cts. each, \$3.50 per 12, f. o. b. at Denison.

“A TREE FULL OF ROSES.”

Bechtel's Double Rose-colored Crab Apple.

This is a true American Crab Apple, producing quantities of fine, very fragrant, full double flowers, closely resembling roses. It is one of the rarest, most truly meritorious novelties ever introduced. Its beauty and worth are recognized by the most noted and reliable horticulturists in the country, and those who plant it on our recommendation will be thankful for the hint. 50c each, \$5 for 12, f. o. b. cars at Denison; 60c each, \$5.50 per 12, prepaid.

Shade and Ornamental Trees.

Your chief happiness lies in the growing ornaments surrounding your home. Such ornaments refine and purify. Neglect them not.

Plant 20 to 25 feet on sidewalks; 25 to 30 feet apart in yards and parks.

Read Elliott's Practical Landscape Gardening, Price \$1.50.

PRICES—Unless Otherwise Noted.

	—1 to 6 feet—			—6 to 8 feet—			—8 to 10 feet—			—10 to 14 feet—		
	Each	12	100	Each	12	100	Each	12	100	Each	12	100
Packed f. o. b. cars at Denison	\$0.12	\$1.25	\$8.00	\$0.18	\$1.75	\$12.00	\$0.25	\$2.50	\$20.00	\$0.35	\$4.00	\$25.00
Packed and prepaid to your depot	.15	1.75	10.00	.25	3.00	16.00	.35	4.00	25.00	.50	5.50	35.00

American Elm. Large leaf elm, healthy, quick growth, long lived. A desirable shade tree in every way. Sizes from 4 to 8 feet.

Black Locust. (Sweet Locust.) A splendid dry climate shade, ornamental or grove tree. Every prairie farm should have a grove of this for shade and fence posts. 4 to 8 feet.

Lombardy Poplar. Quick, ornamental, easy to transplant.

Mulberry. Excellent, quick-growing, long-lived, easy to handle; non-fruiting. 4 to 8 feet.

MULBERRY, RUSSIAN WEEPING. The most beautiful and successful weeping tree for a dry climate ever introduced; difficult to propagate, but easy to transplant. \$1 each f. o. b.; \$1.25 prepaid.

MAPLE, Soft or Silver. The best; a favorite; quick, handsome, beautiful scarlet in fall. Have a fine stock. Can make low prices on large orders. All sizes.

SWEET GUM (or Liquidambar.) A most beautiful native shade tree for the South, leaves turning crimson and scarlet in fall. All sizes.

SYCAMORE. Quick, hardy, long-lived, no disease. 4 to 10 feet.

American Weeping Willow. Succeeds well on deep, rich soil. 25c each prepaid; 20c f. o. b.

Thurrow Willow. A beautiful weeping tree, healthy, quick growth. Will succeed well on uplands. Long-lived. Price 25c each, \$2.50 per 12 f. o. b. 30c each, \$3 per 12 prepaid.

VITUS AGNUS-CASTUS INCISA (Mint Tree.) A remarkably perpetual flowering small tree, hardy throughout the South, producing innumerable spikes of rich blue, highly-scented mint-like flowers, much liked by bees. The leaves are divided like a hand, into five to seven finger-like leaflets. 50c each prepaid; 40c f. o. b.

Yellow Poplar. (Tulip Tree.) 4 to 6 feet.

JAPAN WALNUT.

Juglans Cordiformis. (Heart-shaped Japan Walnut.) This is one of the finest nuts known, and is yet scarce, even in Japan, where it originated. The nut cracks easily, and the kernel drops out whole. The tree is hardy and very handsome, as well as productive. 1 year trees 20c each, \$2 per 12, \$15 per 100, f. o. b.; 25c each, \$2.40 per 12, \$17 per 100 prepaid.

Flowering Shrubs.

PRICES—Unless Noted Differently.

	Each.	Per 12.	Per 100.
Packed and f. o. b. cars at Denison	\$0 15	\$1 50	\$10 00
Packed and prepaid	18	1 80	12 00

All Tested and Successful in Texas.

Althea. (Rose of Sharon). Upright, large, double flowers, blooms in mid-summer. Pink and white.

Almond. Double Flowering. Pink, low, roundish, covered with flowers early in season.

Budleya Lindleyana. Very graceful, upright, with profusion of pendulous spikes of purple flowers; ever-blooming.

Blue Plumbago. Used as either shrub or climber, outdoors or in tub. Constant, prolific everbloomer of sky blue flowers.

Crape Myrtle. Splendid summer bloomers, grow to be large shrubs. Hardy as far north as Kansas. Have crimson, imperial pink and white.

Deutzia Crenata. Upright shrub, double pink blooms, early

Deutzia Watsonii. (Syn. Pride of Rochester). Very double, pure white, profuse, finest of all Deutzias.

Bush Honeysuckle. Upright after second year. Blooms in February, very fragrant.

Flowering Willow. (Chilopsis Saligna). A fine tree like shrub, blooming profusely from spring on all through the summer, even in the hottest weather; flowers tubular 1 to 2 inches long. Have white, purple and pink. Very desirable.

Lilac. A large cluster of small flow-

ers; quite fragrant. Purple varieties: Rothinger, Prince Notger, DeMorley, Chinese White.

Philadelphus. (Syringa, Mock Orange of the North). Blooms early, very pretty white flowers, profuse, sweet.

Pyrus Japonica. (Scarlet or Japan Quince). A gorgeous sight of fiery red flowers very early in spring. In full bloom before leaves come out. Splendid for specimen, screen or hedge.

Pomegranate. Double scarlet and double white. Large, waxy like beautiful flower. Half-hardy in North Texas. Hardy in Texas south of Tyler, Hemstead and Austin.

Spirea Reevesii. (Bridal Wreath). Large round clusters of pure white double flowers that nearly cover the plant. Blooms in early spring. More desirable than Snowball shrub.

Spirea Billardii. Rose colored spikes. Very pretty and effective in bouquets. Profuse, blooms nearly all summer.

Spirea Argentea. Tapering spikes of double white flowers. Early spring.

White Fringe. A shrub with a tree like habit. An exquisitely pretty fringe like flower. Makes a most beautiful yard shrub for early spring effect, and beautiful in foliage at all times. Price 25 cts. each, \$2.50 per 12, f. o. b.; 30 cts. each, \$3 per 12, prepaid.

ORNAMENTAL VINES.

PRICES:

	Each.	Per 12.	Per 100.
Packed and f. o. b. Denison	\$0 20	\$2 25	\$15 00
Packed and prepaid	25	2 50	17 00

Ampelopsis Quinquefolia. (American Ivy). Fine to cover walls.

Ampelopsis Veitchii. Still more handsome than the American.

CLIMBING ROSES. See list under Roses.

HONEYSUCKLES. Monthly Sweet—buff, profuse, perpetual bloomer.

Yellow Trumpet. Yellow, hardy, good climber.

Trumpet Creeper. A stout, woody, handsome vine, with compound leaves and perpetual waxy, large, tubular, orange flowers in clusters; fine to ornament outhouses, tree bodies, etc., as it climbs by aerial roots.

Wistaria. American purple. Hardy, fine for arbors, porch screens, etc. Profuse in early spring.

HEDGING PLANTS.

California Privet. One of the most popular; used for screening or hedging purposes around yards and lawns; also splendid for single specimens. Nearly evergreen. 1 year, 2 to 3 feet, 10 cts. each, 75 cts. per 12, \$4 per 100, f. o. b. Denison; 12 cts. each, \$1 per 12, \$5 per 100, prepaid.

Amour Privet. Darker green leaves than the California; smaller leaves but more dense, and a true evergreen. Very pretty lining around yards and lawns. Excellent to use as single specimens. Price for 1 year plants, 10 cts. each, \$1 per 12, \$6 per 100, f. o. b. Denison; 12 cts. each, \$1.25 per 12, \$7.50 per 100, prepaid.

PERENNIALS. For Bedding.

PRICES:

	Each.	Per 12.	Per 100.
Packed f. o. b.	\$0 10	\$1 00	\$7 50
Packed and prepaid	12	1 25	0 8 0

CANNAS.

President McKinley. Dwarf. Fiery deep crimson-scarlet.

Beaute Poitevine. Medium. Bright crimson-scarlet.

Pierson Premier. Quite dwarf. Brilliant orange-scarlet.

Secretary Chebanne. Medium. Pinkish-salmon.

Robert Christie. Above medium. Reddish-salmon, somewhat penciled.

Mlle. Berat. Clear pinkish-crimson. Tall, strong grower.

Count de Bouchard. Tall, bright yellow-lemon, blotched on inside crimson.

J. D. Cabos. Tall, purple foliage. Salmon.

Yellow Crozy. Light yellow-lemon, slightly specked in throat.

IRIS.

The following list of English and German Iris are the very best out of a large list we have tested.

Chalcedony. Outer petals purplish-violet, streaked; inner petals lavender-pale purple; medium size flowers, 4 to 5 inches. Late, profuse, good grower.

L'Elegante. Outer petals dark violet, inner petals pale lavender, blotched with violet; large, 5 to 6 inches. Very vigorous, profuse, medium to late. Very attractive, showy.

Leonidas. Outer petals dark violet, inner petals violet. Darkest of all. Fair grower, late.

Marjolin. Outer petals streaked

maroon, inner petals clear bright lemon yellow. Very late, good grower, profuse. Very showy, valuable.

Triflora. Outer petals violet, inner petals lavender; large; very vigorous, profuse.

Thyspe. Outer petals purplish, inner petals pale purplish yellow; medium size; vigorous.

Victor LeNoir. Outer petals velvety violet, inner petals white; large. Very attractive; showy; vigorous; late.

Victoria. Outer petals white, bordered with lavender penciling. Strong grower; earliest of all.

OTHER PERENNIALS.

Double Tiger Lily. Grows in a leafy stem to about two feet. Flowers a showy orange yellow, spotted on inside with numerous black dots, making a pretty contrast.

Yucca Baccata. (Banana Yucca.) A beautiful, rapid grower, with mass of evergreen leaves; flowers abundantly, white; fruit pods meaty.

Zebra Grass. The prettiest and most enduring of all grasses. Cross-striped with thin lines of white. Makes soft plumes in fall.

Pampas Grass. A strong growing grass, producing fine white plumes for winter decoration.

Hibiscus. Hardy, coming up from root each season. Large, open funnel shaped flower, white with crimson eye, profuse bloomer nearly all summer.

CONE-BEARING EVERGREENS.

PRICE.

	~3 in. to 1 ft.~	~1 to 2 ft.~	~2 to 3 ft.~	~3 to 4 ft.~
	Each 12 100	Each 12 100	Each 12 100	Each 12 100
Packed f. o. b. cars at Denison	\$0 15 \$1 25 \$1 00 \$0 20	\$2 00 \$15 00 \$0 30 \$3 00	\$25 00 \$0 50 \$5 00 \$30 00	
Packed and prepaid	16 1 50 12 00	25 2 50 17 00	40 4 00 28 00	65 6 00 40 00

Arborvitæ, Chinese. Dark green; vigorous, hardy, desirable. 1 to 3 ft.

Arborvitæ, Golden. Roundish or conical, compact; beautiful. 1 to 3 ft.

Juniper, Trailing Tamarix-leaved. Very hardy; fine. 1 to 2 ft.

Juniper, Red Cedar. One of our best evergreens. 2 to 4 ft.

Juniper, Irish. A greenish upright grower; handsome. 1 to 2 ft.

Cedrus Deodora. From the Himalayan Mountains. Bluish green, branches spreading and feathery. 1 to 2 ft.

Rosedale Hybrid. A true hybrid of the Golden Arborvitæ and the Retinospora; resembles the Golden Arborvitæ

in shape and the Retinospora in texture and color, except it has a soft touch. Well adapted to the Texas climate. 1 to 2 ft.

Austrain Pine. Most beautiful of all pines for ornamental planting. Perfectly adapted to the climate. Makes a fine appearing tree. 1 to 2 ft.

BROAD-LEAVED EVERGREENS.

Evergreen Tree Box. (*Buxus sempervirens*.) A splendid, perfectly hardy evergreen shrub; excellent for cemetery planting and for ornamental screens and hedging. 6 in., 10 cts. each; 1 ft., 15 cts. each, f. o. b.; 6 in., 12 cts. each; 1 ft., 18 cts. each, prepaid.

Magnolia Grandiflora. The grandest of all evergreens and flowering trees. Succeeds throughout Texas and the Indian Territory, as well as in other Southern States. By clipping off all but a few of the tip leaves when taken up, and as treated in our handling, they are readily transplanted. 1 ft., 25 cts. each; \$2.25 per 12; \$20 per 100, f. o.

b.; 2 ft., 50 cts. each; \$4 per 12, f. o. b.; 1 ft., 30 cts. each; \$2.50 per 12; \$21 per 100, prepaid; 2 ft., 60 cts. each; \$5 per 12, prepaid.

Euonymus Japonica. Resembles the tree Box in appearance, only grows faster and has larger leaves. Hardy here, having passed through one of the severest winters without damage. Suitable for lining walks, planting in clumps or as single specimens. Have both the solid green leaved and the green and white variegated leaved. Price for 1 ft. plants, 15 cts. each; \$1.50 per 12, f. o. b.; 17 cts. each, \$1.75 per 12, prepaid.

ROSES.

Read Henderson's Practical Floriculture—Price \$1.50.

PRICES—Except Varieties Otherwise Noted.

	Each	Per 12	Per 100
Packed and f. o. b. Denison	\$0 20	\$2 25	\$15 00
Packed and prepaid to your depot . . .	25	2 50	17 00

STRONG, OPEN GROUND, TWO YEAR PLANTS.

The following list includes the most superb varieties, both old and new. The plants are thrifty and vigorous, growing in open ground. We have a large stock, and in quantity can make low prices.

All these have been in bloom throughout the season, and we know them to be strictly pure and true to name and description. Our roses always give the best satisfaction.

Everblooming.

WHITE AND BLUSH.

Bride. Strong, healthy, large, double, fine bud; delicate carmine blush.

Clothilde Soupert. Vigorous, profuse bloomer, with medium, very full, white flowers with pink center.

Marie Guillot. Moderate grower; creamy white; large, very full; none finer.

The Queen. Pure snow-white; sweet and fragrant; petals are thick, makes fine buds on long stems; good grower.

Kaiserin Augusta Victoria. Pure white, fragrant; fine buds and flowers

on long stems; profuse; strong grower.

Pres. Carnot. White tinged with blush; beautiful form, cupped, waxlike.

White Cochet. Identical in shape and habit with that splendid pink rose, Maman Cochet, except the color is white, changing to blush.

BUFF AND YELLOW.

Mad. Welche. A fine, rich, fragrant cream, salmon center.

Perle des Jardins. A fine, rich yellow. Flower very double and fragrant. Pretty bud.

Etoile de Lyon. Rich yellow, full, fragrant, pretty; profuse all summer, during hottest weather; good grower.

ROSES—Continued.

Helena Cambier. Lovely coppery yellow, rich color and of free blooming qualities. In extreme heat the color becomes a deep, amber color.

PINK.

Catherine Mermet. Vigorous, large, full; bright flesh color; very sweet, long handsome bud.

La France. Strong, upright, very large, full; delicate pink, sweet, profuse.

Duchess of Albany. Habit of plant, shape and size of flower similar to that of La France, but more profuse and of deeper pink.

Franceska Kruger. Fine rich pink, creamy towards center; slightly pencilled with deeper pink on outer petals. Healthy plant.

Mad. Lambard. Bronzy, profuse; strong grower; excellent, fine bud.

Hermosa. Clear, handsome pink; profuse, double, cupped.

Maman Cochet. Rose or pink, shaded with salmon; profuse, fine bud and flower; strong grower; a very superior rose; one of the best for out-door planting in Texas, also excellent for cut flowers.

SCARLET AND CRIMSON.

American Beauty. Crimson, fine, 40 cents each, \$3.50 per dozen, f. o. b.; 45 cents each, \$3.75 per dozen, prepaid.

Meteor. Large; clear, rich, dark crimson; profuse; strong grower, full.

Papa Gontier. Very handsome in bud; dark crimson.

Madame Masson. Strong and hardy;

flowers large and profuse, very double; flowers dark crimson.

Pierre Guillot. A rival of American Beauty in beautiful crimson flowers, and a freer bloomer.

HARDY CLIMBERS.

Tennessee Belle. Good climber; medium, full; blush; in clusters; profuse in spring.

Crimson Rambler. One of the finest climbers; magnificent trusses of deep crimson flowers; makes a fine show as a climber and profuse bloomer.

Mad. Alfred Carier. Plant of few thorns. Flower partially double, of a blush white. Constant in flower.

Climbing Meteor. A deep double crimson climber. Constant in flower.

MOSS ROSES.

Luxemburg. Crimson, annual bloomer.

HYBRID WICHURIANA MEMORIAL ROSES.

Evergreen Gem. The most wonderful grower, not only evergreen, but growing during mild weather in winter. Stems long-branching, rich bronze color, closely matted. Flowers produced singly on stems, yellow, buff in bud, opening to almost white, two or three inches in diameter, perfectly double and of a delightful sweet-brier fragrance. This will be found most valuable for landscape work, as well as for cut-flower purposes. Fine for cemetery planting on account of its hardiness. Price 50c. each.

Pot Plants, Cut Flowers, Floral Designs.

A Greenhouse department has been established through which we will be able to supply in their proper seasons such plants as Carnations, Violets, Geraniums, Bedding Plants, Etc. A list of such plants will be ready in March, and will be mailed free to applicants.

We can also supply Cut Flowers, Funeral and other floral designs at any time. Prices of designs from \$1.00 to \$30.00, according to pattern, size, etc. Phone and mail orders will have prompt attention.

JUICE OF THE VINE.

For Table, Sacramental and Medicinal Use. Made from Ripest Choice Grapes.

Fresh Grape Juice ("Unfermented Wine"). This delicious beverage is one of the most appetizing, wholesome foods and remedial preparations known. It is equally efficient as fresh grapes where the "Grape Cure" remedy may be recommended. All relish it; children cry for it. Most carefully prepared by a special process. In pint bottles, hermetically sealed, 30 cts. each, \$3 per dozen, f. o. b. cars at Denison. Many churches use "Unfermented Wine" prepared by us. No chemical sterilizer of any kind is used in this juice. Much juice in the market is so sterilized. All such is injurious to health.

ADDRESSES OF HOME IMPROVERS PAID FOR.

If you will send us, with your order, the names and post office addresses of six of your neighbors who own and are improving their homes, we will put in with your order, if as much as \$2 or over, articles from our list, of your own selection, to the amount of 25 cents. For 12 such addresses, when order is \$3 or more, articles to the amount of 50 cents. This order does not extend to more than twelve addresses from one customer.



THE DEAD SHOT C. V. GOPHER TRAP.

35 cts. each, 3 for \$1, \$4 per dozen by mail.

Just the thing you are looking for to destroy those destructive Pocket Gophers. Full directions for setting with each trap.

We have used these traps for over ten years and they have given entire satisfaction.

INDEX.

	PAGE.		PAGE.
Horticultural Information.	2nd cover	Grapes—Standard Varieties . . .	13
A Small Library of Most Useful Horticultural Books . . .	2nd cover	Southern Muscadines . . .	14
Terms, Conditions, Shipping, etc.	1-2	Vinifera Varieties . . .	14
Prices	2	New Creations in American Grapes	16 to 24
Apples	3	A New Departure in Grape Hybrids	24
Crab Apples	4	Resistant Graft Stock for Grapes	25
Pears	4	Japanese Persimmons	25
Quinces	4	American Honey Persimmon	25
Almonds	5	Pomegranate	25
Apricots	5	"A Tree Full of Roses"	26
Cherries	5	Shade and Ornamental Trees	26
Figs	5	Flowering Shrubs	27
Peaches	6-7-8	Ornamental Vines	27
Plums	8-9	Roses	29-30
Mulberries	10	Perennials	28
Blackberries	10	Evergreens—Cone-bearing and Broad-leaved	28-29
Dewberries	10	Juice of the Vine	3rd cover
Raspberries	12	Order Sheet	
Strawberries	12		



THE BIG FIVE.