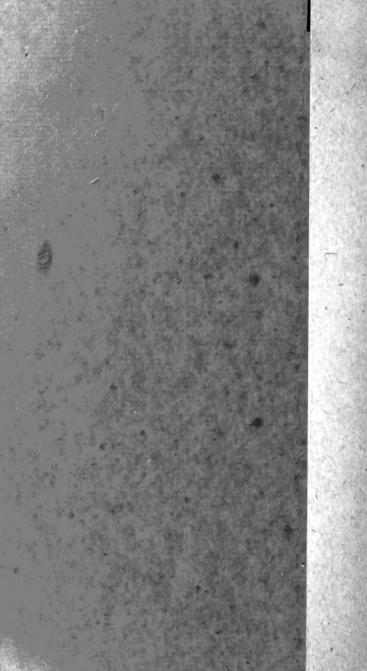
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NURSERY CATALOGUE.

LIBRAR

FARMERS HIGH

PENNSYLVANIA.

FARM SCHOOL, P.O., CENTRE COUNTY,

PENNSYLVANIA.

PHILADELPHIA: KING & BAIRD, PRINTERS, 607 SANSOM STREET. 1859.





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### NURSERY CATALOGUE.

### FARMERS HIGH SCHOOL

OF

#### PENNSYLVANIA.

FARM SCHOOL, P.O., CENTRE COUNTY,

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# YAANNI TYTMTXAMIN 2.U THUTINOMOA TO

### PREFACE.

Among the characteristics of our Nurseries are the following:

As TO Soil.—The trees are grown in strong loam, thoroughly drained by nature, newly employed in this culture, and therefore free from injurious insects and excreta.

LOCATION.—We are on the elevated plateau which divides the sources of the Juniata and Susquehanna, and about half way between their channels of freight and travel. The Nurseries are on ground exposed to the winds of all quarters, where overluxuriant extensions of growth are checked, and firmness is naturally imparted. We grow only hardy plants; and they will transplant advantageously from our rigorous exposures and brief season of growth to less elevated and warmer districts.

CULTURE.—No surfeiting or unseasonable stimulus is used. All standard sorts are propagated directly from bearing trees; each kind in its own distinct row. Every tree is indelibly marked while standing in the rows, and the utmost care is applied throughout to maintain accuracy to name.

COLLECTIONS.—The interest taken in our Institution brings to us, from all quarters, contributions of new and rare fruits, shrubs, vines, trees and herbaceous plants. The pomological collection from which scions for the orchards and nurseries have been supplied is one of the largest in the country, and we are thus enabled to furnish the best productions developed by our fast improving horticulture.

EXTENT.—No greater area is cultivated than can be superintended and worked thoroughly and exactly. Object.—One of the objects of this Institution is that of disseminating well tried and valuable subjects of Farm and Garden culture, as well as of training native gardeners, and determining true processes. Seeds, plants or cuttings of new, distinct and superior articles will be gladly received, and duly acknowledged.

#### PRINCIPLES.

Trees cannot continue to flourish satisfactorily unless protective care is continued to them after leaving the Nursery. Nothing more than protection is required.

They essentially require

### 1. Protection against atmospheric injuries.

If trees are allowed to extend slender branches to a great length, high winds will bruise the leaves and break the texture, thus checking circulation. And if trees are trimmed up so as to expose tall bare stems to the sun and wind, the roots and soil must be in the very best condition, or moisture will not be supplied to the elevated head as fast as it evaporates. Hence the reason why large trees and especially tall trees, newly transplanted, are so liable to die off in the burning weather of July and August.

### 2. Protection against pruning knives and saws.

The system of training applied in the Farm School Orchards is to retain two opposite branches at two or three feet from the surface: two more at right angles to these, about two feet higher, and so on alternately; for example, if one pair of branches extends north and south, the next pair should extend east and west. Every year, in March, the

redundant annual shoots are cut out (most of them having been better suppressed by the thumb and finger in the June preceding). Thus the permanent frame of the tree is constructed. There is no occasion left for making future large wounds, which are inevitably followed by decay—the shaded bark remains soft, yielding and entire—sap is supplied freely, there being no dry or dead wood to obstruct its course from the roots—the shoots, leaves, and fruit are large and well developed, being near the supplying roots—the tree attains a full head much earlier, and preserves its vigor far longer—it suffers less by winds, frosts and droughts,—it carries its fruit more firmly—is more accessible—and last, but not least, the plow is kept at a distance from the vital parts—the main roots and the main trunk.

# 3. Protection against mouths of cattle and human fingers.

Vast numbers of trees are destroyed by well meant but ill-judged trimming, during the first summer after planting. The leaves are vital organs: without them there can be no circulation, no digestion, no formation of wood, no action of roots. The entire trunk should be shaded by them. If they are removed during the season of active growth, stagnation and decay will result. Of course remaining leaves must all be removed from deciduous trees when taken up for planting, or the tree will rapidly shrivel. In removing evergreens, the roots must retain a covering of soil; their action must not be interrupted, because that of the leaves continues.

### 4. Protection of the Roots from wounds, &c.

The soil should be thoroughly loosened, so as to enable the roots to penetrate readily in every direction to the widest extent. The newly formed roots of a tree are quite as tender as those of a weed, and much less active in appropriating nutriment. The roots of no other tree or plant should reach the bed of a transplanted tree, especially in July and August, when evaporation is excessive, and circulation and growth should have no check. Too often the young tree struggles for life among weeds, until, finally, the thoughtless owner comes along, with team and whip and sharp share, and cuts off at one sweep all the silent viewless combatants. And when he finds his tree fading, he blames any thing but himself. Plow Orchards only when out of leaf.

#### 5. Protection from Frost.

Exposed roots of trees are entirely destroyed by a few degrees of frost if thawed hastily in the air. But if carefully buried without bending and consequent breaking of the frozen roots, the frost may be gradully extracted without injury to the structure. The destroyed roots become discolored like a bruised apple. Sometimes only the ends of the roots are injured; and as roots cannot issue from the dead dry wood, it is necessary at planting to cut back to clear healthy wood, even if nearly the whole root must be cut away.

#### 6. Protection from free air.

As animals cannot live without water, yet die if immersed in it; so the roots of plants can neither endure a bath of air, nor live without access to it. Plants will not grow well in glazed or painted pots,—in porous pots, their roots seeking air, cover the inside of the pot. In the earth, the best roots, in like manner, coat the surface between the superficial mulch of humus and the mineral soil. The roots of Evergreens should be closely packed immediately on being lifted with soil adhering to them; those of Peach and Cherry trees, Raspberries and almost all plants that will not grow from cuttings, should be plunged in mud thick enough to coat every part of all the roots, and should be buried in fine mould or packed tightly before this coating dries so as to crack off.

### 7. Protection against Poisons.

Rank, raw manure is poisonous to trees, and especially if placed in contact with the roots; no sod or other raw vegetable matter,—nothing but fine mould should be applied to the roots, and this very compactly. Wherever cavities are left among the roots, they become mouldy and decay inevitably follows.

8. The nearer a shoot issues to the roots, the more sap will it probably receive, and the better will it shade and protect itself. All side branches should be pruned into one bud, excepting those left to form the permanent frame of the head; and, if the roots are weak, these also should be cut back to one or two buds. The shoots from these buds will grow vigorously, whereas if a large surface were left exposed, the roots might not be able to support the evaporation. It has been demonstrated that two hundred and fifty pounds are evaporated, for every single pound of solid matter carried up and deposited in the plant.

### 9. Protection against Water.

We have all seen the hardiest upland trees perish, where the roots are continually immersed, as in dams. If they are planted in cold, wet soil, the effect is early death. The structure is disrupted as effectually and as fatally by watersoaking as by frost.

### 10. Protection against Drought.

Probably one-half of all transplanted trees die outright or finally, from drying up in the hot months after planting. If trees are shrivelled when received, they can be recovered by burying wholly in fine friable mould for eight or ten days. After long-stemmed trees have been planted, it is always expedient to shade the stem with loose, long straw, and to mulch over the roots with straw, leaves, tan, chip-mould or

other litter, laid on the surface to a depth of three or four inches, and extended four to eight feet in diameter. For this insures constant moisture as well as an open soil and surface, and precludes danger to the roots from spade or hoe or weeds. Ordinarily the cares and labors of harvest stop the hoe, and if the weeds are not choked down by mulch, they eventually occupy all that was prepared for the tree, which is lost through want of quite finishing what was almost done.

### 11. Protection against Insects.

Wash the stems of young trees with soap or solutions of potash or soda, weak lye, or a mixture of soap, sulphur, tobacco and potash, or any of them. Gas tar and fish-oil soap are effective as applications or ingredients, but must be used prudently. If clay or lime be added to form a coating, the effect is more lasting. Use it in June and August to destroy borers which hatch at those seasons. Earth up round peach trees in the spring to fence the borer from the roots, or apply a small mound of fresh lime in July. Pine brush is a good mulch for peach trees, and tan for berries.

12. To the above may be added Protection against Thieves.—Much can be done by patiently setting a good example, by aiding to establish moral training in all schools, and conscientiousness every where; and specially by forming village societies, with the object and duty of extending and encouraging the culture and protection of fruit, so that all may have to spare rather than to lack. If it is true that there is no more vexatious loss than the robbery of a tree of favorite fruit, grown with care and cost, and just matured to beauty and flavor, it is equally true that one of the most powerful and demoralizing temptations that lie in the way of youth, is that of having no access to an innocent object of passionate desire, but through mean and criminal resorts.

#### DIRECTIONS FOR TRANSPLANTING.

[The figures refer to the foregoing paragraphs.]

Immediately on receiving trees, and before opening the bundles or boxes, a trench should be prepared in light, mellow clean soil (6, 7) in which to bury the roots; and a pool of mud, say two feet across and one foot deep, into which to plunge them as fast as opened. (6) If it be early in Autumn -last of October or first of November-hardy trees may be planted at once, and the earth should be heaped into a cone over the roots so as to keep them dry for the Winter (5, 9) Tender trees, as peach, plum, apricot, should be laid in the earth in dry, mellow soil, (6, 7, 9,) the roots well banked up, (5, 9,) the tops lying near the surface; and sheltered, after the ground freezes, with pine, cedar, or oak branches, or other screens to check evaporation. (10) If applied sooner, mice may feel invited to lodge among the trees. If the soil is dry and can be kept so, the trees may be covered entirely with it. A dry cellar affords a convenient shelter. On planting in the Spring it is well to puddle or mortar the roots in, to settle them compactly. (7) merely covering the roots(9) and filling the hole up after the soil begins to dry. Plant shallow; (6) stake well, or, if the tree is tall, the wind will use it as a lever to break off the tender emissions of roots(4) which cannot be restored, unless there is a stock of material remaining in the tree, out of which they can be formed again.

After planting, loosen up the soil well round the extremities of the roots, and at least two feet beyond them. (4) And when it becomes dry—not before—(9) apply a liberal mulch. (10) Prune closely before the leaves issue, but never remove a leaf. (3) Avoid frequent waterings, and do not permit a glazed air-tight surface. (9, 6) Let no

weeds grow within reach of the ends of the roots. (4) Trees are quite as susceptible of the benefits of culture as is cabbage, corn, or tobacco.

#### Soil.

Soil dry enough and strong enough to grow wheat is all that can be desired for trees. If young thrifty trees be fairly set out, and protected as above shown, from the injuries too often inflicted, they will grow without stimulus, and the orchard will be more valuable and incomparably handsomer in five years, than ordinarily in twenty.

#### Manure.

Vegetable mould and wood ashes are the best applications to promote healthful growth, and they should be applied on the surface. (6) Use the best loam to fill round the roots and beyond their extremities, when planting. (7)

### ORDERS FOR TREES AND PLANTS.

The season of planting is, for deciduous trees, from October 15th to April 10th, during mild weather, and the earlier the better, after the leaves have ceased their functions, and can be removed easily. (3) For evergreens—March 1st to May 1st. For herbaceous plants, as strawberries and flowering perennials, any time after blossoming, to September 1st, or in April. Early leafing plants, as gooseberry, rhubarb, and early shrubs and flowers, should be planted as soon as the leaves fade in Autumn, or very early in the Spring. Late autumn planting leaves the ground open to water and frost. (9, 5)

When certain varieties or forms of trees are particularly desired, the order should be forwarded early in autumn while the whole growth of the season is in the nursery.

Where particular sorts are named, and no other direction is given, it will be understood that those are specially wanted, and plants will be sent of such size as may remain on hand.

It will be found best to correspond directly with the nursery from which the trees are to be sent, rather than with irresponsible and unknown travelling salesmen. Full lists of all varieties here, will be furnished to amateurs on application.

Trees will be packed in boxes for long distances, or in straw for shorter ones, as directed, at a charge averaging less than one cent per tree. The cost of packing, and carriage, the the labor of planting, and the risk of failure, are all much reduced by selecting trees of healthy growth, not over two years from the bud or cutting. The first cost is also less.—Older and larger trees can be moved more easily and safely, if transplanted one year previous. Their health and vigor are indicated by the fullness and ripeness of the last year's growth.

We will deliver trees that are ordered in good season, either to Spruce Creek, Lewistown, or Lock Haven depots as purchasers may direct.

Send the order, with distinct and full directions as to routes, on a sheet separate from other matter. Address "Farm School Nursery, Farm School P. O. Pennsylvania."

### CATALOGUE.

Note.—Varieties distinguished by **CAPITALS** are those which are in every way reliable and excellent in all soils (a) These we grow very largely; those in **bold face type** extend the selection and are scarcely inferior.

Popular sorts, possessing certain special fine qualities are printed in common type; of some of these only a few are grown.

Specimen trees or scions can be furnished of nearly all published and approved varieties, including very many not included in the Catalogue. We put many different varieties in our assortments to meet the variety of tastes that are found in every family and company.

### Characters describing habits of growth.

- Y This character marks strong growth of *erect* habit, suitable for road sides and exposed orchards.
- I' The same, not of erect growth.
  - I Very erect and strong growers, suitable for yards and avenues.

(Plant all the above 30 to 40 feet apart in orchards, or close in single rows.)

- Y Y Slender or low growth, erect or inclining, requiring less space.
  - y Dwarfish growers, which will not make large trees, and should always be allowed to branch low. These may be planted closely: 15 to 25 feet apart.
  - Λ Should be grown as dwarfs, the stem entirely shielded by foliage: 8 to 12 feet apart.
  - d Dwarfs—Pears on Angers quince; Apples on paradise stocks.
- (a) These sorts ought to be planted round every dwelling in our State, where there is room for them to grow, and freely along roads and lanes. They form a series maturing in succession throughout the year.

Characters de	escribing O	ualities of	Fruit, (	preceding	the names.)	
---------------	-------------	-------------	----------	-----------	-------------	--

Fruits	chiefly	remarkable	for	large size are marked
îi	".	44	66	small " "
66	- 66	. 66	66	beauty " "*
66	**	"	66	high flavor are marked † (tongue)
66	- 66	6.6	66	early bearing, "p (productive)
66	66	66 .	- 66	profuse or regular bearingP
	**	86	"	long keeping, are markedL
68	64	44	46	good culinary sorts, "c
46	66	66	66	acid, for culinary use onlyC

The varieties of fruits are named nearly in the order of ripening.

For full descriptions of fruits, see works on the subject. A Manual will be sent to purchasers of trees, post free, for 38 cts.

### APPLES.

	Price per hundred, our assortment, 2 yrs. from bud, 4 to
6 1	feet, branched\$12 00
	Price per hundred, our assortment, 3 yrs. from bud, 6 to
8	feet, branched
	Price per tree, sorts selected by purchasers15 to 25 c.

### Summer Sorts.—July to September.

No.	1.	* †		Primate Y
:	2.	* †	P	YELLOW HARVESTY
:	3.	0	P	Sweet BoughY
4	4.	*		Early StrawberryY
	5.	* † c p	P	Summer RoseY
(	6.	** C		Red AstrachanY
7	7.,	* † p	P	Jefferisy $\Lambda$
		†		Sine Qua Nony
8	8.	O Cp	P	Keswick CodlinY
		†		Early Queening Y
	9.	0 † †		Early Joe $y$ $\Lambda$
10	0.	O * p	P	Summer QueenY

11.		Summer PippinY
12.	0 P	Summer Sweet Paradise Y
		Sops of WineY
13.	* c p P	MAIDEN'S BLUSHI
	†	High Top SweetY
14.	† P	American Sum. Pearmain $y$ $\Lambda$
	†	HoneyY
15.	t c P	SUMMER BELLFLOWER, Y
	0 †	Summer RamboY
16.	*	William's FavoriteY
17.	O * †	Golden SweetY
18.	O * † P	PorterY
Α	utumn Ap	ples.—October.—December.
19.	О с	Holland Pippin
0.0	O † O †	September (native here)
20.		Sweet RamboY
21.	* † p	Northern Sweet
$\frac{21}{22}$ .	P	Sweet Russet (apple butter). Y Sweet Yellow Butter. "Y
23.	* p	Sweet Yellow Butter. "Y Haskell Sweet. "Y
40.	0	Pumpkin Sweet. " Y
24.		Jersey Sweet. "Y
25.	* †	Fall Wine $y$ $\Lambda$
26.	†	RAMBOI
20.	O c P	Hayes
27.	0	HawlyY
	0	AlexanderY
28.	О . с	French
29.	O †	Republican
	O *	Blenheim P
30.	†	Dyer
31.	*	Gravenstein Y A
	*	Oldenburgh $Y_{\Lambda}$
32.		St. Lawrence Y
33.	0	Fall Pippin
34,	* P	Autumn StrawberryY
35.	† P	MotherY

36.	*	FameuseY
37.		Gate
38.	O t c P	Smokehouse Y
	* p P	Hawthorndeny
	Winter So	rts.—January.—March.
39.	* †	Wine Y
40.	*† p P	HubbardsonI
41.	†	Melony A
42.	†	N. Y. VandevereY
43.	† c	Red VandevereY
		Ohio NonpareilY
44.	* †	Winter StrawberryI
45.	* †	Winter Rambo
	P	Domine <b>Y</b>
46.	†	Baily SweetY
47.	0 † P	Yellow BellflowerY
48.		Canada ReinetteY
	ОСр	Ewalt
49.	Ос	RHODE ISLAND GREEN-
		ING Y
50.	P	Tolman's Sweet
	† P	Falder Y
51.		Peck's PleasantY
52.	c P	Winesap <i>Y</i>
53.	*† p P	Jonathan $y$ $\Lambda$
54.	p	WagnerY
	0 * c p P	ADAMS. (native.)
55.		BorassaY
	† L P	RomaniteI
56.		Red Canaday
57.		Westfield $y$
58.	0 † p P	FALLOWATERY
59.	p P	Pomme GriseY
60.	* †	Golden Reinette $Y_{\Lambda}$
61.	0 † P	Esopus SPITZENBERGY
62.	o † pP	American Golden RussetI
63.	0 † P	Swaar

64.	0	Ť	Tompkins' King
65.		†	p Green Sweet
66.	0	+	Lady $\mathbf{I}_{\Lambda}$
67.	0		P L English Russet
68.			Winter Sweet ParadiseI
69.			p P Michael Henry SweetY
70.		Ť	Hereford Pearmain
71.		†	L Newton PippinY
72.	O		p P BALDWINY
73.	O	Ť	L Northern Spy
	O		P L BlackjackI
74.	O		P L Boston Russet
75.	0		p P L Carthouse

### PEARS.

Pear trees will not endure arbitrary and forceful culture, although naturally the longest-lived of domestic fruit trees. They especially require to be let alone in the manner indicated in 1, 2, 8, 10 of "Protection." They should be lifted carly before vegetation commences (order early). Those marked d succeed well as dwarf-trees on quince, but the soil must be mellow, and spaded around the extremities of the roots early every spring. In planting dwarfs, the junction of the pear and quince should be three or four inches beneath the surface, and the trees should be of but one year or not over two year's growth from the bud. Trees marked A bear early, if trained as low pyramids on seedling pear stocks, and yield almost never-failing crops of the most delicious of fruits. Pears can be taken in before they color, and thus kept safely, and ripened more perfectly.

#### PRICE.

One year from the bud (2 feet), 30 cents each. Per dozen, \$3 00.

Two years " " (2 to 4 feet, branched), 40 cents each.

" " " " per dozen, \$4 50.

Larger trees (transplanted), each, 50 cents.

	Summer So	orts.—July, Oct., Sept.
No. 76.	o P	St. John's (earliest,)Y
77.	† pP I	MADELEINEY A
78.		Summer Doyenne
		Giffard $\widetilde{Y}$
79.	† pP I	Bloodgoody A
80.	O * d	$V_{argonelle}$ $Y$
81.	*	MoyamensingY
82.	† * p P d (	OsbandI A
83.		DearbornY A
84.	o † ]	Rostiezer $Y$
85.	0 † * P \$	Shenksd Y
-86.		CingsessingY
87.	р P d <b>J</b>	ULIENNEY A
88.		SterlingY
89.	† 7	TysonY
90.	O * † p P I	BARTLETTI A
91.	_	Brandywiney A
	o * p P Z	Coar BeautyY
	o pr z	toal Deauty
	0 " p P 2	total Deauty,
	•	orts.—Oct., Nov., Dec.
No. 92.	Autumn So	
No. 92. 93.	Autumn So	orts.—Oct., Nov., Dec.
	<b>Autumn So</b> † P S  O * d S	orts.—Oct., Nov., Dec.
93.	† P S 0 * d S 0 * † P E	orts.—Oct., Nov., Dec. st. Ghislain
93.	Autumn So  † P S  O* d S  O*† P F  † p P I	orts.—Oct., Nov., Dec.         st. Ghislain
93. 94.	Autumn So  † P S  O* d S  O*† P B  † p P B  o †* P d B	orts.—Oct., Nov., Dec.         st. Ghislain
93. 94.	Autumn So  † P S  O* d S  O*† P B  † p P B  o †* P d B  o † d B	orts.—Oct., Nov., Dec.         st. Ghislain
93. 94. 95.	## Autumn So    †	orts.—Oct., Nov., Dec.         st. Ghislain
93. 94. 95.	Autumn So  † P S  O* d S  O*† P F  † P P I  o †* P d F  o † d F  O †* F	orts.—Oct., Nov., Dec.         st. Ghislain
93. 94. 95.	## Autumn So    †	orts.—Oct., Nov., Dec.         st. Ghislain
93. 94. 95. 96.	## Autumn So    †	Orts.—Oct., Nov., Dec.         St. Ghislain
93. 94. 95. 96.	## Autumn So    †	Orts.—Oct., Nov., Dec.         St. Ghislain
93. 94. 95. 96. 97. 98.	Autumn So  † P S  O* d S  O*† P F  † P P I  o †* P d F  o † d F  O † d F  O † d F  † P P d F  † P P d F  † P P d F	Orts.—Oct., Nov., Dec.         St. Ghislain
93. 94. 95. 96. 97. 98.	## Autumn So    †	Orts.—Oct., Nov., Dec.         St. Ghislain
93. 94. 95. 96. 97. 98.	## Autumn So    †	Orts.—Oct., Nov., Dec.         St. Ghislain

102.	1	Pdd	LOUISE BONNEI
	†	P	SheldonY
103.	O *	Pdd	AngoulemeY
	O		Nouveau Poiteau
104.	O *	pР	Bosc Y A
			Gratioli
105.	0 † †	pР	SICKELy A
	†	pР	Gray Doyenney A
106.	†		Urbaniste Y
			Petre Y
107.	0		BoussockY
	†	p P d	CatinkaY A
108.	O	_	Swan's OrangeY
	0	p P	Fultony A
109.	0 † *	_	ClairgeauY
	†		Howell Y

### Late Autumn and Winter Pears.—Nov.—March.

(These must be kept in *close* boxes in a cool airy cellar, until their season of ripening, then transferred to a warm room for a week or more.)

No. 110	. O † P * d	B. DIEL Y A
111	. 0 † *	Dix <b>Y</b>
112	*	Forelle $y$
113	. O * d	OswegoY
114	. 0	V. M. Leon le clercY
115	. 0	ColumbiaY
116	. O P C d	WinkfieldI
117	. † p P	New "Gray of winter"A
118		D' Alengon Y
119	. † p P	Nelisy A
120	. C	Worcester
121	. O C d	PoundY
122	. † P	ArembergY
123	. † Pdd	Glout morceauY
124	. † Pd	LawrenceY A

125.	Ť			Princés St. Germainy A
126.		*		Passe ColmarY
127.	+			Josephine de Malinesy
128.	0		d	Easter BeurreY
129.				B. Rance Y

### CHERRY.

June to August.

All the class of 155 to 165, low growers, can be supplied on Morello stocks. Full standards of the erect strong growing sorts. These are very eligible as shade trees. All should be lifted for planting before vegetation commences. Nos. 142 to 153 form a succession of the Bigarreau class.

A considerable variety of cherries is desirable in respect to season, color, flavor and uses, and the absence of all other fruit in their season. They grow in dry soils only, and the fruit does not attain its flavor until fully ripe. Price of low branched dwarfs with fruit buds..... \$ 40

One	or two years fro	m bud, per doz. assorted; 2 to 5 feet, 3 50	
		nted; 6 to 8 feet; each 50	
130.	o pP	Early PurpleY	
131.	† pP	Governor WoodY	
132.	* †	Coés TransparentY	
133.	O * p P	BLACK TARTARIANI	
134.	O † * P	BLACK EAGLEY	
135.	0	Knights' Early Black Y	
136.	0 † * p P	Downton	
137.	0	Cumberland Y	
138.	*	White FrenchY	
139.	†	SparhawkY	
140.	† P	DOWNERS late redI	
141.		HoveyY	
142.	0	Early White HeartY	
143.	†	RockportI	
144	0 + 1 = 0	Cleveland	

O * † p P	Elton
O * † P	BigarreauY
*	Burr's SeedlingI
O *	Great Bigarreau $Y$
O *	NapoleonI
O *	Ox heartY
† P	Gridley Y
O *	MezelY
*	Buttner's YellowY
	O * † P O * O * O * O * O *

#### Acid Cherries.—June to August.

The sorts marked † have abundance of subacid juice. They are most acceptable and refreshing in the heats of haying and harvest. This class should be liberally planted on every farm.

154.	0	Indulle <b>Y A</b>
155.	o cpP	Early KentishY A
156.	O*†cpP	REINE HORTENSEY A
157.	О †срР	MAYDUKEY A
158.	* †	Belle de Choisy Y A
159.	с C Р	CarnationY
160.	c † P	Late Duke Y A
161.	с СрР	English MorelloY
162.	с С Р	Plumstone MorelloY
163.	0 * † p P	BELLE MAGNIFIQUEY A
164.	O † p P	Louis PhilippeY A
165.	c C P	October Morello Y A

### APRICOTS.—July.

Apricots succeed the sweet cherries, and precede other tree fruits. The trees are as hardy as plum trees, but they blossom early, and the crop is uncertain unless the tree is trained on a wall.

	Price	40 cents each.
166.	o * c	Early GoldenY
167.	O * †	Large EarlyY
168.	о с	BredaY

169.	0 *†	MoorparkY
170.	0 †	BrusselsY
171.	0 * †	PeachY

### PLUMS.—August to October.

This fruit varies remarkably in color, flavor, form, size, season, and in habits of growth. The large luscious varieties are liable to rot in low, confined places, or if crowded. All are liable to the curculio, which must be looked for early in May. The fruit will well compensate for the trouble. Our stock is entirely free from black knot.

Prices	for vigoro	us grov	wers, 3 to 5 feet, branched	40 cents
66	"	4	" extra-sized trees	50 "
66	" dwarf	grower	rs, ( <b>y</b> )	50 "
172.	* .		Primordian	Y
173.	0 *		Scarlet Cherry	$\dots Y A$
174.	†		Early Orleans	УА
	t		Henrietta	y
175.	0 * †		BRADSHAW	I
176.			Yellow Gage	Y
177.	0 *	pР	Mirabelle	$\dots y A$
178.	0 * †		Mamelonne	y
179.	0 † †	$\mathbf{P}$	Green Gage	$\dots y A$
180.	0 † *		Washington	Y
181.	0 *		Yellow Magnum Bonum.	I
	0 *		Red Magnum Bonum	$\dots Y$
182.	c ·	* p P	YELLOW PRUNE	Y
183.	†	P	Galbraith	y
184.			Hudson's Gage	Y
185.	*	P	Peach Plum	I
186.	†	pР	LAWRENCE	I
187.		P	Red Gage	Y
188.	†		Schenectady	Y
189.	t	ρP	IMPERIAL GAGE	Y
190.	†*		McLaughlin	Y
191.	+	P	English Apricot	Y

192.	0 †		Smith's OrleansI
193.	0 †	P	JeffersonY A
194.	0		Huling's SuperbY
195.	†		Schuyler GageY
196.	0		ColumbiaY
197.		P	Cruger's ScarletY
198.	O c 1	P	LARGE LATE PURPLEY
199.			St. MartinY
200.	*		LombardY
201.	*		de BavayY
	c†		Swiss PruneY
202.		P	Prune DamsonY
203.	c		Manning's Blue PruneY
	c	I	St. Catharine Y
204.	0 †	I	Golden DropY
205.	Ť	I	IckworthI
206.	†	I	Autumn GageY
207.	c	PI	Late DamsonY

### PEACHES.

August.--October.

Only the hardiest of the budded varieties can be grown here to any advantage, and these only on elevated dry ground, or in the near vicinity of unfreezing streams. Yet trees which are allowed to renew themselves by sprouting from the root, live to a great age. The bark of the peach tree is of open texture, allowing free evaporation(1). The roots are also very tender, (5, 6, 9), and trees planted in autumn are liable to perish. If removed at that season they should be kept through severe weather in a dry cellar, or buried in dry soil. (5, 6.) The peach-worm must be guarded against and expelled, (11) while the tree is young. The curled leaf is the chief bane of the peach tree: it destroys the first and most

important leaves, (3) and retards the period of active growth until September and October. The tree is yet full of liquid sap, when severe frosts occur, and the entire structure is injured. This evil aggravates itself from year to year. The tree can be preserved only by allowing a new stem to spring from the root, and sheltering during winter by low training and screens of cedar, pine or oak. Plants kept in a dry cool cellar do not exhibit curled leaf in the spring.

The protections described in 1, 3, 5, 6, 8, 10, 11, are vitally essential. The tree should stand in an orchard convenient for culture of the entire surface, and should branch low. Shoots, which can be bent down to the surface, can be protected so as to secure fruitfulness.

Price of l	ow branch	hed bud	ded trees 3 to 5 feet, select sorts, \$ 20
66	**	66	" per dozen, 1 75
"	" unbude	ded seed	dlings from good fruit, per 100, at
			nursery, 5 00
No. 208.	t		Early Tillotsony
209.	o †		Troth's Earlyy
210.	0 †	P	Serrate Early Yorky
211.	++	pР	Large Early YorkY
212.	0 * †	pР	Crawford's EarlyY
		•	
213.	'	c D	White Imperialy
214.	U	P	Yellow AlbergeY
	0 * †		Yellow RareripeY
215.			Walter's Earlyy
216.			George IVY
217.	0 †		CooledgeY
218-			Grosse Mignonney
219.	0 * †	pР	Waring's YellowY
220.	0 †	p	Early Violet, NectarineY
221.	0 †	pР	Elruge, " Y
		•	Hunt's Tawny, "y
222.	0		Downton, "Y
			New White, "y
223.			Boston, "Y
			Stanwick, "Y

224.	O * † p P	Oldmixon ClingY
225.	* † P	Oldmixon FreeY
226.		Heath FreeY
227.		Malta Y
228.		Bellegarde $\mathbf{Y}$
229.	O * †	SusquehannaY
230.	* c p P	SnowY
231.		Red Magdalen $y$
232.	* c p P	Morris WhiteY
233.	_	Smock FreeY
234.	O *	Jacque's RareripeY
235.	0 * P	Crawford's LateY
236.		Late Red RareripeY
237.		Large White ClingY
238.	O * c p P	Blood Cling $Y$
<b>2</b> 39.	0	Late AdmirableY
240.	* †	Bergen's YellowY
241.		Scott's NonpareilY
242.		Ward's Late FreeY
243.	O *	Heath ClingY

### GRAPES.

This fruit has of late attracted the general attention of amateurs, and is being rapidly improved. Choose plants of not over two years, with numerous and firm roots. Set them in full sunshine—the leaves will not endure shade, (3.) Let the entire bed that will be occupied by the rambling roots be mellow and rich. Growth often issues preferably from buds covered in planting, and the surface must be open to allow their ascent. The opening buds are very tender, and should be guarded from the touch of passing fowls, dogs, &c.

ISABELLA, O\*† P The growth does not mature fully in our latitude, yet the yield is often too profuse, and

				the fruit is scarcely ex-
				celled25 c.
				1 year \$10 per 100.
				2 years \$15 per 100.
	CONCORD,	0 *	P	
				excellent, if thinned
				and well ripened50
	Catawba,	* +	рP	
				dom ripens here; rich.25
				\$15 per 100.
	York Madeira,	t	PP	L Excellent when fully
				ripe, for table or wine.
				(early.)
	Clinton,		PP	L A most hardy and vigor-
				ous grower; it should
				ripen fully; will keep
				well, and makes good
				wine
				\$8 per 100.
	Diana, Delaware,	† † * †		3
1	Rebecca,	* †		If ordered early1 00
	Jelly,	c	PP	Excellent for drying,
				early, perfectly hardy. 15
	Our list includes	others,	as A	nna, Emily, Louisa, Marion,

Our list includes others, as Anna, Emily, Louisa, Marion, Logan, Mary Ann, Cassidy, Kilvington, Garrigues, Ohio Herbemont, To Kalon, Hampton, Kingwood, August, Raabe, Brinckle, Wright's Isabella, Early Amber, Northern Muscadine, Purple Fox, Charter Oak, Le Noir, Miller's Burgundy, Franklin.

### Hedge Plants.—Protective and Decorative.

Honey Locust,1 yearper	1000.5	310	00
Osage Orange, "	"	5	00
Privet, cuttings	66	5	00
" strong rooted plants for immediate effect, per	100,	3	00
Sweet Briar,	1000.	8	00
Norway Spruce10 inchesper	100.	15	00
Hemlock Spruce10 to 15 inchesper	1000.	15	00
Red Cedar10 to 15 inchesper	1000.	20	00

### MISCELLANEOUS.

Mulberry.	American red, 25 cts., English black, 50 cts., Downing's, \$1 00.
Quince.	Apple Quince, the best and only hardy good sort
Chestnut,	American25 cts. to 40 cts.
Almond.	Hardshell, sweet
Blackberry.	New Rochelle, per doz 1 00
	High bush, each
Gooseberry.	(mulch well, and thin out every Spring.)
	Houghton, per doz. \$1 50,each 15 cts.
	Sweet Water and Cluster, free from mildew,
	per doz. \$1 50each, 15 cts.
	Green Wave, and other large sorts, (less pro-
	ductive)25 cts.
Current.	(mulch well, and thin out)
	Black Naples, sweet black, and red Dutch,
	each
	White Dutch, White Grape, Cherry, Vic-
	toria, per doz. \$1 50,each 25 cts.
Raspberries.	Mulch liberally with tan or other litter. All
	require winter covering, (of earth or
	mulch, applied in November,) excepting
	the American. The Red Antwerp is
	nearly hardy, and the Autumn sorts
	bear on shoots of the same year.
	American Red and Blackcap, per doz75 ets.
	True Red Antwerp, Fastollf, per doz 1 00
	Orange, Knevett's giant, each20 cts.
	Fontenay, (aut.) and Four Seasons, (aut.)20 cts.
Strawberries.	Spring is the best season for planting, but
	with special care the plants can be
	moved at any season. Very deep soil,
	clean culture, room, and mulch of de-
	cayed leaves, will secure immense yield
	from the sorts marked P. Pistillate
	sorts (p) must have hermaphrodites (h)

	in adjoining beds or rows. If plants
	have been long on the way, rinse well,
	and keep the leaves clean
	Large Early Scarlet (h). Hovey, p. P., per
	hundred 1 00
	McAvoy's Superior, p. Crimson Cone, p. P.
	Peabody, h. † 1 50
	Wilson's Albany, h. P. P. Genesee h. Burr's
	New Pine, p. † † per doz. 50
Rhubarb.	Linnæus, exceedingly tender and fine,†, ea. 25 cts.
	Early Scarlet,per doz. 1 50
	Victoria, very large,per doz 2 00
Asparagus.	Roots, one and two year, per hundred 75
Potatoes.	Prince Albert's, per bushel 1 00

### DECORATIVE PLANTS.

The collections of specimen trees are large, and cannot be embraced in the present catalogue. We enumerate only those of which there is a stock in the nursery,

Note .- fol. indicates plants having remarkable foliage.

fr. fruit.

wint. " leaves, shoots or berries bright and showy in winter.

odorous leaves or flowers.

ev. indicates evergreen.

w. indicates pendent or weeping.

#### Trees

	11000.	
Silver Maple,	fol. wint. Y, 6 to 8 feet,	40 cents.
Magnolia acuminata,	fol. fl. wint. I. 2 to 4 feet,	50 "
Horse Chestnut,	fol. fl. <b>Y</b> , 2 to 4 feet,	50 "
Mountain Ash, (Europ.)	fol. fl. wint. I, 6 to 8 feet,	40 "
Ash, white,	fol. fl. win. 1 I, 4 to 6 feet,	40 "
Tulip tree,	fol. fl. * I, 4 to 6 feet,	50 "

Willow, S. pentandra, daphnoides, annularis, \(\) Untrained plants, Babylonica, fontana, rosmarinifolia, caprea, 20 cents each. and other decorative species, fl. sol. wint. Grafted & trained and other decorative species, fl. fol. wint. od Y, w.

50 cents each.

Norway Spruce,	ev. wint. A. w. 1 to 4 feet,	50 c	ents.
Hemlock Spruce,	ev. wint. I A, 1 to 5 feet,	50	6.6
Black Spruce,	ev. wint. I A, 2 to 4 feet,	50	66
Balsam Fir,	ev. wint. I A, 2 to 5 feet,	50	64
Silver Fir,	ev. wint I A, 1 to 3 feet,	50	66
Scotch Pine,	ev. wint. I A, 2 feet,	50	44
Larch,	fol. fl. I A, w. 6 to 8 feet,	50	44
Arbor Vitæ, America	n, ev. fl. A, 2 to 3 feet,	50	66
Arbor Vitæ, Siberian	, fol. A, 1 to 2 feet,	50	66
Cherry, double flower	ring, fol. fl. Y,	50	66
Cherry, large weeping	g, fol. fl. w, 4 feet,	50	44
Crab, Chinese double	flowering, fol. fl. Y, 3 to 5 feet,	25	44
Crab, Siberian, red, y	ellow, purple, &c., Y, fl. fr. 3 to 5 ft.,	25	66
Cercis, Judas tree, r.	fol. fl. Y, 3 to 5 feet,	40	44
Sambucus, parsly lea	fed elder, fol. fr.	25	64

### SHRUBS.

We name only some of the most desirable of those of which there is a stock in the nursery. Those which have a permanent beauty of foliage are marked, fol. The colors of flowering species are indicated by bl., for blue; w., for white; r., for red; p., for purple; pk., for pink; y., for yellow; var., for variegated; 1, 2, 4, 6, 8, feet of height; cl., climbing.

EARLY SPECIES.—Developing in March or April.

Cydonia Japonica, Japan quince,

M

	101. 1. pk. 4, pc.	402. QU 00 C	*. UU
Ribes, Crimson curran	t, Gordon's		
and c	others, r. var. 4,		20
Forsythia viridissima,	fol. 4,	2 00	20
Shepherdia argentea,	fol wint. 8,		50
Spirea prunifolia,	fol, * wh. 2,	2 50	25
AY.			
Calycanthus, sweet sc	ented shrub, od. * p.	3,	40
Spireas, several distinct	t species, fol. * r pk.	w. od. 24,	25
Crataegus, double fl. I	läwthorn, fol. * pk. v	vint. 8,	40
Mahonia aquifolium,	* fol. fr. ev. A. p. wint	. 6,	50

cts.

fol. \* r. pk. 4. per doz. \$3.50 ea. 50

	Syringa, Lilacs, several fine v.,		
	4.3 V	to 50	ct
	Lonicera, shrub honeysuckles,		
	w. * pk. fl. wint. 6,	25	
	Amygdalus, dwarf fl. almond, * pk. 4,	25	
	Ceanothus, New Jersey tea,		
	wh., low hedges, 1, doz., 1 00	15	
U	NE.		
	Amorpha fruticosa, false indigo,		
	fol. p. 10,	25	
	Wiegela rosea, low hedge, * r. pk. 2,	25	
	Colutea arborescens,		
	curious, fr. * 6,	25	
	Deutzia gracilis, low hedges, wh. 2,	25	
	" scabra, fl. wh. * 5,	25	
	Robinia, mossy locust,		
	fl. pk. * showy, 5,	40	
	Philadelphus, mock orange,	0.7	
	(sorts,) fl. wh. od. 6, Viburnum oxycoccum, cranberry bush,	25	
	r. fr. fl. 6,	40	
	Spireas, different distinct sorts,	10	
	pk. wh. * 2, 6,	25	
	Roses, red, white, and crested moss, *	40	
	" dove, cottage, velvet, painted and other		
	June roses—the most distinct, * 2, 5,	25	
	Honeysuckles, the most distinct and showy,		
	fl. cl. r. wh. var. od. 8,	25	
J.	LY.		
	Rhus, mist tree,		
	A wh. p. fl. * wint. 6,	40	
	Roses, prairie climbing roses,		
	* fl. pk. wh. 10,	25	
	" perpetuals, many fine sorts, (selected from a	large	
	number of varieties.) fl. pk. wh. re; var. 2 to 6; 30 t		
	Spirea callosa and others, * r. pk. 4, 25 to		
	Ligustrum, privet, y. fol. fr. wh. wint. 8,	25	
	Artemisia, Southernwood, low hedges, od. fol. 2 cuttings pr. 100		
	IOW Heages, on, fol 2 cuttings or 100	25	

Sambucus pubens, red elder, * fr. 8,	25
Wistaria, Glycine—Am. and Chinese,	
cl. * fol. fl. 10,	50
AUGUST, SEPTEMBER, AND LATER.	
Euonymus, burning bush,	
fl. p. fr. * wint, 8	40
Berberis, fl. fr. r. * wint. 6,	40
Symphoria, white and red,	
fr. * * wint. 5,	25
Roses, select Bourbons, Noisettes and Remontants,	
* * var. 2 to 8,	40
Hibiscus, Althea, fl. * * var. 5 to 8,	40
Celastrus scandens,	
cl. wint. fr. * r. 15,	25
Ampelopsis, American Ivy,	
cl. fl. r. 20.	25

(The last two, with Glycine and Japan Honeysuckle are well adapted for planting at gateways and doors, being neat, clean and thornless.)

#### HERBACEOUS PERENNIALS.

These are "a vivid vigorous breed," the first loves of all florists, especially desirable to all who wish their homes to smile with flowers, but who have little experience in their culture, or little time to devote to it. Once planted they endure for years, excepting the few marked as "tender," and the simplest care suffices them.

To aid in selecting and arranging, we have classified them in regard to height, color and season. The letters denote the prevailing colors.

A few (marked b), are biennials, usually continuing three years or longer, if not allowed to seed. See descriptions in Breck's Book of Flowers, or other manuals; 10 to 25 cts. each.

LOW PLANTS—(6 inches,) suitable for fronts of borders.

Crocus, per dozen bulbs, var. col, str. y. blue... Mar.

Snowdrops. " wh..... Mar.

Daffodils, per dozen bulbs, var. col., fr. y	Mar.
Violet, sweet scented, English, fr. blue	Apr.
Daisy, Bellis perennis, (tender in sun and frost,)	
wh., pink	Apr.
Pansies, Heartsease, var. col., wh, y., pur., red Apr	, Dec.
Jonquils, per dozen bulbs, fr., y	May.
Phloxes, reptans, divaricata, subulata,	
wh, blue, pur., pk Apr.	, May.
Candytuft, Iberis tenoreana, wh Apr.	, May.
Cowslip, American, Dodecatheon, fr., wh., pur	May.
" English, and Polyanthus (primula),	
fr., y., red	May.
HIGHER PLANTS—12 to 18 inches.	
PAEONIES, several very distinct and showy,	
fr., wh., y., pk., rose, red May,	June.
Sweet Williams, endlessly varied,	T
fr., wh., str., pur., pk., redMay,	
Columbines, various, blue, pur., red	
Cowslip Virginian, Mertensia, blueMay,	
Perennial Flax, L. grandiflorum, &c., y., red May	
Lychnis, different species, pk., scarJune	
Calystegia pubescens, wh., pk	July.
Amaryllis, formossissima and others, tender bulb, red	July.
Verbenas, var., plant out in June, tender p.,	
wh, str., blue, pk., redJune	-Nov.
Petunias, var., plant out in June, tender,	5.01-
fr., wh., str., pur., pkJune	-Nov.
Pentstemons, var. coccinea, digitata, &c.,	- C
blue, pur., scar Jul	
Tiger flower, Mexican, (Tigridia,) spot., y., orJuly	, Aug.
Achillea, ptarmica, filipendula, &c., wh Jul	y, Oct.
China Pinks, (bi.) exceedingly various col.,	- C
wh., str., pur., red Jul	
Garden Pinks, various, fr., wh., pur., pk., red Jul	
Chrysanthemums, many var., wh., y., pur Oct	
PLANTS OF TWO TO THREE FEET, for the middle of borders.	r eack
Phloxes, varieties of medium height,	
fr., wh., str., pur., pk., red Jur	
Lupines, Californian, and other perennial, blue May	June.

Day Lilies, (Hemerocallis, Funkia.)
wh., y., blueJune-Aug.
Coreopsis, lanceolata, verticillata, y., pur June-Sep.
Snapdragons, (Antirrhinum.) var. mixed col.,
wh., y., pur., red June-Sep.
Spireas, filipendula, Japonica, lobata, &c.,
wh., pkJune-Aug.
Clematis integrifolia, blueJune-Aug.
White Lily. fr., wh
Dracocephalum, dentatus, pur. pk July, Sep.
Gay Feather, blazing star, (Liatris,) pur., red Aug., Sep.
Butterfly weed, Asclepias, or Aug., Sep.
Cardinal flower, Lobelia, blue, scar Aug., Sep.
HIGHER PLANTS, suitable for planting in the back ground,
near clumps of shrubbery or hedges.
Gas plant, Dictamnus fraxinella, wh., red May-July.
Bell flowers, Campanula nobilis, grandis, &c,
wh., blue, purJune, Aug.
Foxglove, Digitalis, (bi.) wh., spot., pk., redJune, July.
Larkspurs, Delph, formosum, Barlowi, &c, blueJune-Aug.
Ipomopsis, (Gilia,) elegant and showy, scar June-Sep.
Phloxes, tall varieties, fr. wh., str., pur June-Sep.
Monkshood, Aconite, blueJuly-Aug.
Tiger Lily, Canadense and others, spot., or., red Aug.
Clematis erecta, wh
Sword Lily, Gladiolus florib. psit. gand., &c.,
tender bulbs, pur., pk., scar Aug.
Asters, var., wh., blue, purJuly, Aug.
FOUR TO EIGHT FEET, (cl. climbers.)
Sunflower, perennial, y Aug., Sep.
Allegheny Vine, cl., Adlumia cirrhosa, (bi.,) wh., blue, pur June, Oct.
Virgin's Bower, Clematis flam. Virg. vitic, &c.,
fr. cl., wh., blueJune, Nov.
Hollyhocks, double, var., wh., y., pk., red July, Aug.
Teachers, learners, or amateurs wishing to procure dried
leaves, blossoms, seeds, or wood from specimens in the arbor-
etum or nurseries, can correspond with the classes in Botany,
through the "Professor of Botany," F. H. S., Farm School,
P. O., Penna.



