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THE STANDARD
Combination Descriptive Catalogue
AND
RETAIL PRICE LIST
OF

WESTERN FRUITS, SHRUBS, SHADE AND ORNAMENTAL TREES.

Embracing all the Leading Varieties of new tested Apples, Pears, Quinces, Peaches, Plums, Cherries, Grapes, Currants, Gooseberries, Strawberries, Blackberries, and other Small Fruits, selected and arranged especially for the West and Southwest.

1883

By W. S. COOPER.

Nurseryman, Propagator and Dealer in General Nursery Stock.

HEADQUARTERS, TOPEKA, KANSAS.

WHEN considering the construction of this work as a guide for our customers, and the public at large, we first thought to bring together the general varieties, with a few valuable additions, and arrange in a similar manner to our old catalogue, would be sufficient. But desiring still further to enlighten the minds of those who have many questions to ask, we have attempted to answer—in a satisfactory manner—all such questions as naturally arise in relation to the varieties we herein offer and recommend. For authority—together with our own experience and observations—we have taken in the main, Charles Downing, F. R. Elliott, J. A. Warder, and P. Barry. Omissions that are found to occur in the various columns are such as we have been unable thus far to gather any certain knowledge of.

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W. S. COOPER.

The plan of our work will be readily understood by reading the following explanations. By looking at the head of each column, the reader will find titles corresponding with the following; then taking a variety like Early Harvest or Benoni, and tracing it out on the same line, may be found a complete description of that variety:

1. *Origin of Varieties*.—County or State abbreviated.
2. *Size*.—S for small; m, medium; l, large; v l, very large.
3. *Flesh, Color of*.—W for white; y, yellow; g, green.
4. *Color of Outside*.—Y for yellow; g, green; s, striped; r, red; w, white.
5. *Quality*.—G for good; v g, very good; b, best.
6. *Habit of Growth*.—M for moderate; v, vigorous; v v, very vigorous.
7. *Hardiness*.—H for hardy; v h, very hardy.
8. *Bearing Age*.—V e for very early; e, early; m e, medium early; l, late.
9. *Productiveness*.—M for moderate; p, productive; v p, very productive.

In columns representing color of outside, the preceding letter throughout this Catalogue represents the predominating color. As light and soil has much to do with the outside coloring, and through these agencies many variations are made, we will only attempt to indicate the general color.

When a dash is placed in precedence for a letter, thus, —y, it denotes light, as light yellow; and thus, y—, denotes dark, as dark yellow; or thus, —r, light red; and thus, r—, dark red, etc. In other columns the same mark denotes a little below or above, as the case may be.

Season in Use.	Quan'y wanted.	APPLES.										
		Grade. Yr. No.	Origin.	Size	Flesh.	Color.	Quality.	Habit.	Hardness.	Bearing Age.	Productiveness.	
July			Car R. June.....	N C	m	w	r w	g	v v	h	e	p
			*Early Harvest.....	N Y	m—	w	—y	v g	t	h	m e	p
			Benoni.....	Mas	s—	y	r y	b	v	h	e	p
			Sweet June.....	Mas	s—	w	—y	g	v	h	....	v p
A'g			*R. Astrachan.....	Rus	m—	y	r	g	v	v h	e	p
			Sum. Queen.....	N Y	m—	y	s y	v g	v	h	m e	p
			*Trenton Early.....		l	—y	b	v	v	h	....	v p
			Golden Sweet.....	Ct.	l	y	y—	g	v v	h	e	p—
Sep.			Lowell.....	A m	l	y	—y	v g	v	h	m e	p
			Duch's Oldenburg.....	Rus	m	w	s y	g	m	v h	v e	p
			*Maid, Blush.....	N. J.	m—	w	y	v g	v	h	e	p
			Jersey Sweet.....	N. J.	m	—v	s y	v g	m	....	e	v p
Oct.			Ohio Nonpareil.....	O.	l—	—y	r y	b	v	h	....	p
			Fall Pippin.....	A m	l	y	y	v g	v v	h	m e	m
			*Fall Wine.....	A m	m—	y	s y	b	v v	h	e	p
			Cayuga R. Streak.....	Ct.	l—	w	s y	g	v	h—	e	p
			Bonum.....	N. C	l	y	s y	v g	v	....	e	v p
			*Red Beitigheimer.....	Ger	v l	....	s y	g	v	....	....	p
			*Cadwallader.....	Ill.	l—	w	y	b	v	h	e	p
			Colvert.....	N Y	l	w	y s	g	v	h	....	v p
			Ramsdell's Sweet.....	Ct.	m—	y	s y	v g	v v	....	e	v p
			Famuese.....	Ct.	m	w	r w	g	v	v h	e	p—
			*Buckingham.....	Ga.	l—	y	y s	b	v	h	e	p
			Wagener.....	N Y	m—	y	r	g	v	h	v e	v p
			Rambo.....	Pa.	m	w	y s	v g	v	—h	m e	p

Season in Use..	Quant'y wanted.	APPLES—Cont'd.										Productiveness.
		Grade.	Origin.	Size	Flesh	Color	Quality	Habit	Hardness	Bearing Age		
		Tr. No.										
Ear	G. G. Pippin.....		Va	l	y	y	b	v	v	h	p	
W'r	*Pen R. Streak.....		Del	m	w	s	v	v	h	m	e	
	Domine.....		NY	l	—y	r	g	v	v	h	v	
	Jonathan.....		NY	m	w	r	g	b	m	h	e	
	Ortley.....		N J.	m	w	—y	b	v	h	e	p	
	*Smith's Cider.....		Pa.	m	w	y	s	v	v	h	e	
	Cogswell.....		Ct.	l	y	s	y	b	v	h	e	
	Paradise W. Sweet ..		Pa.	l	w	—y	v	g	v	h	m	
	White Pippin.....		—	l	w	—y	v	g	v	h	m	
Mid	*Rome Beauty.....		O.	l	y	r	y	g	m	h	e	
W'r	Huntsman.....		Mo.	l	y	y	—	b	v	h	m	
	McAfee Nonsuch.....		Ky.	m	—y	s	y	v	h	m	e	
	Clayton.....		Ind.	l	y	s	g	g	—	h	e	
	*Stark.....		O.	l	y	s	y	v	g	v	v	
	*Missouri Pippin.....		Mo.	m	—y	r	—	g	v	h	v	
	*Winesap.....		N. J.	m	y	—	r	—	v	h	e	
B'st	*Ben Davis.....		Ky.	l	w	s	w	v	h	e	p	
kprs	*Rawles Janet.....		Va.	m	—y	g	s	v	h	e	p	
	Willow Twig.....		Va.	l	—	g	s	v	h	e	p	
	Gilpin.....		Va.	s	—y	r	—	v	v	h	e	
	Walbridge.....		Ill.	m	y	y	s	v	v	h	e	
	*Lawver.....		Mo.	l	w	—	g	v	h	e	p	
	Bentley Sweet.....		Va.	l	y	g	s	v	—	e	p	
	†Hyde's King of the		—	—	—	—	—	—	—	—	—	
	West.....		—	l	—	y	g	g	—	—	—	

Any of the above not erased.

Each.

Per 10.

Per 50.

Per 100.

Three years old trees, 6 to 7 feet.....

Two " " No. 1 trees, 4 to 6 ft.....

One " " No. 2 " 3 to 4 ft.....

One " " No. 1 " 2 to 3 ft.....

*Leading varieties. †Specials not offered except when noted.

Season in use . .	Quant'y wanted	CRAB APPLES.	Grade.	Origin.....	Size	Flesh.....	Color.....	Quality	Habit.....	Hardness.....	Bearing Age...	Productiveness					
			Yr. No														
July	...	Tetofsky.....	...	Rus	v	l	w	s	y	g	v	v	h	e	v	p	
A'g.	...	Whitney's No. 20.	...														
Sep	...	*Transcendent.....	...		l		y	s	y	v	g	v	v	h	e	v	p
Oct.	...	*Hyslop.....	...		l		y	r		g	v	v	h			p	
W'r	...	Marengo.....	...	Mo.	l		v	s	y	v	g	v	h			v	p

Any of the above not erased.

Each.

Per 10.

Three years old trees, 6 to 7 feet.....

Two " " No. 1 trees, 4 to 6 ft.....

" " " No. 2 " 3 to 4 ft.....

One " " No. 1 " 2 to 3 ft.....

Season in use ..	Quantity wanted.	PEARS.	Grade.		Origin.....	Size.....	Flesh.....	Color.....	Quality.....	Habit.....	Hardness.....	Bearing Age....	Productiveness.
			Yr.	No.									
		4. color, r russet, b blush.											
Mid		Doyenne d'Ete.....			Bel. s	w	y	v g	v		e	p	
Sr		*Blood Good.....			L. I. m	—y	y	v g	m	h	e	p	
		Osband's Summer.....			N Y m	w	r b	v g	v	h	e	p	
L'te		*Buerre Gifford.....			Fra m	w	y b	b	m	h	m e	v p	
Sr		Clapp's Favorite.....			Mas l—	w	y b	b	v	h	m e	v p	
		Tyson D.....			Pa. m	w	y b	b	v	h	l	v p	
		Bartlett.....			Eng l	w	y	v g	v	h	m e	v p	
E'y		Louise B d'Jersey D.....			Fra. l	—y	y b	v g	v v	v h	e	p	
Aut		*Flemish Beauty.....			Bel. l	—y	y b	b	v	v h	v e	v p	
		Seckel.....			Pa. s	w	r b	b	m	v h	l	p	
		Belle Lucrative.....			... m—	w	y r	v g	m	h	e	p	
Mid		*Howell.....			Ct. m—	w	y b	b	v	v h	e	p	
Aut		D'h. d'Angouleme D.....			Fra. v l	w	y g	v g	v v	h	m e	p	
		Onondaga.....			Ct. l	y	y—	v g	v v	h	l	p	
		†Kieffer.....			Pa. l	—y	y—	b	v v	v h	v e	v p	
L'te		Buerre Clairgeau.....			Fra. l—	y	r b	v g	v v	h	e	p—	
Aut		*Buerre d'Anjou, D.....			Fra. l	w	y g	b	v	h	m e	—p	
		Lawrence.....			L. I. m—	—y	y r	b	m	h	m e	—p	
W'r		*Winter Nelis.....			... m	y	y r	b	v	v h	e	v p	
		Buerre Easter.....			Bel. l	...	y b	v g	m	h	...	v p	

Any of the above not erased.

Each.

Per 10.

Three years old standard, 6 to 7 ft..

Two " " No 1, dwf or std.

" " " No 2, " "

One " " No 1, " "

*Leading varieties. †Specials two years, dwf or std.

D, especially recommended for dwarf.

Season in use ..	Quantity wanted.	QUINCES. Do best on heavy soils.	Grade.		Origin.....	Size.....	Flesh.....	Color.....	Quality.....	Habit.....	Hardness.....	Bearing Age....	Productiveness.
			Yr.	No.									
Oct		*Orange.....			l	y—	y—	v g	v	h	...	v p	
		Rea's Mammoth.....			N Y v l	y—	y—	v g	v	h	...	m p	
		†Champion.....			v l	y—	y—	...	...	...	v e	...	
		Angers.....			Fra. m	y	y	g	v v	...	...	v p	

Any of the above not erased.

Each.

Per 10.

Three years old, 5 to 6 feet

Two " " No 1 trees

" " " No 2 "

One " " No 1 "

*Leading varieties. †Specials not offered except when noted.

Season in use ..	Quantity wanted	PEACHES.										Productiveness.
		6. Stone, f, free, c, cling.	Grade.	Origin.....	Size.....	Flesh.....	Color.....	Quality.....	Stone.....	Habit.....	Hardness.....	
			Yr. No.									
Ju'e		†Waterloo		N Y	m—	w	w r	b	.....	v v	.....	.....
		*Amsden		Mo.	m	w	r w	v g	f	v v	h	v p
		Alexander		Ill.	m—	w	r w	b	f	v v	h	p
July		*Early Rivers		Eng	l	w	w y	v g	f	v	h	p
		Cooledge Favorite		Mas	l	w	w r	b	f	v	h	p
		*Foster		Mas	v l	y—	y r	b	f	v	h	p
		†Conklin .....			.....	y—	y	b	.....	.....	.....	.....
		†Wager			m—	y	y	b	.....	.....	v h	v p
A'g		*Richmond		N Y	m—	y	y	b	f	v v	h	v p
		†Prince of Wales		Eng	v l	w	r g	.....	f	.....	.....	.....
		Yellow Ripe		A m	l	y	y r	b	f	v	h	p
Sep		Old M. Free		A m	l	w	y r	b	f	.....	h	v p
		*Stump the W		N J.	v l	w	w r	b	f	v	h	p
		Beer's Smock			l	y	.....	v g	f	v	.....	p
		*Heath Cling		A m	v l	w	—y	b	c	v v	v h	p
		Marshall's Late			v l	.....	y	.....	.....	.....	.....	v p
		*Steady		Mo.	l	w	w r	b	f	v	.....	.....
Oct		October Beauty		Mo.	v l	w	w r	b	c	.....	v h	p
		†Albright's L. October		N. C	l	w	y	b	f	.....	h	v p

Any of the above not erased.

Each.

Per 10.

Per 50.

Per 100

Two years old, size 6 to 7 feet

One year " No 1 trees, 4 to 5 feet.

" " " No 2 " 3 to 4 "

*Leading varieties. †Specials not offered except when noted.

Season in use ..	Quantity wanted.	PLUMS.										Productiveness.
		4. Color, p, purple, v, violet.	Grade.	Origin.....	Size.....	Flesh.....	Color.....	Quality.....	Stone.....	Habit.....	Hardness.....	
			Yr. No.									
July		*Wild Goose		A m	m—	.....	r y	g	c	v v	v h	v p
A'g.		Bradshaw		A m	l—	y	p r	g	—f	v	.....	p
		Washington		N Y	l—	y	y—	b	f	v	h	v p
		*Lombard		N Y	m	y—	r v	g	c	v v	v h	v p
Scp.		†Weaver			l	.....	r p	v g	.....	v v	v h	v p
		*Miner		Pa	m	.....	r p	v g	c	v	h	p
		†Genii			v l	.....	p	.....	.....	v v	h	v p

Any of the above not erased.

Each.

Per 10.

Three years old trees, 6 to 7 feet

Two " " No 1, 4 to 6 "

" " " No 2, 3 to 4 "

One " " No 1, 2 to 3 "

*Leading varieties. †Specials, one pear, No 1, 2 to 3 feet.

Season in use ..	Quant'y wanted.	CHERRIES.										Productiveness.
		3, Flesh, f, firm; t, tender 4, Color, b, black; p, purple. 5, Flavor, a, acid; s a, sub acid; s, sweet. 6, Class, h, Heart; b, Bigar- reau; d, Duke; m, Morello.	Grade. Yr. No	Origin.	Size.	Flesh.	Color.	Flavor.	Class.	Habit.	Hardness.	
M'y	Early Purple Guigne.	.....	.....	m—t	r—s	h	m	v h	v p			
Ju'e	Governor Wood.	.....	Oh.	l—t	y r	s	h	v	h	v p		
.....	Black Tartarian.	.....	Rus	l—f	b	s	h	v v	h	v p		
.....	Yellow Spanish	.....	.....	l—f	y r	s	b	v	h	v p		
M'y	Olivet	.....	Fra.	l—t	r—s	a	d	v	.....	.....		
.....	May Duke	.....	Fra	l	t	r—s	a	d	v	h	p	
Ju'e	*Early Richmond	.....	Eur	—m	.....	r	a	m	v	v h	v p	
.....	*Montmorency Ord'e.	.....	.....	l	.....	r	a	m	v	v h	v p	
July	Reine Hortense	.....	Fra.	l—t	r y	a—d	v	.....	p			
.....	*Belle Magnifique	.....	.....	l	t	—r	a	m	v	v h	v p	
.....	†Windsor	.....	.....	l	v f	r—	.....	.....	.....	.....		
.....	*English Morello	.....	.....	m—t	r—	a	m	m	v h	v p		

Any of the above not erased.

Each.

Per 10.

Three years old trees, 6 to 7 feet

Two " " No 1, 4 to 5 "

One " " No 2, 3 to 4 "

One " " No 1, 2 to 3 "

*Leading varieties. †Specials not offered except when noted.

Season in use ..	Quant'y wanted.	APRICOTS.										Productiveness.
			Grade.	Origin.	Size	Flesh.	Color.	Quality.	Stone.	Habit.	Hardness.	
			Yr. No.									
July		Hemskirke.....	....	Eng	l	y—	y r	b	c		—h	p
A'g		*Moorpark.....	....		l—	y—	y r	b	f	m	—h	v p
NECTARINES.												
A'g		Hardwicke's.....	....	Eng	v l	—g	y r	b	f		v h	v p
		*Early Violet.....	....	Fra.	m—	—y	v y	b	f		h	
Sep.		Red Roman.....	....	Eur	l	y	y r	b	c	v v		p

Any of the above not erased.

Each.

Per 10.

Two years old trees, 5 to 6 feet

One year " " No 1 trees, 4 to 5 ft.

One year " " No 2 " 3 to 4 ft.

*Leading varieties.

Quantity wanted.	GRAPES.										Productiveness
	6, Purposes used for, t, table; m, market, k, keeping; w, wine.	Yr.	Origin	Bunch	Berry	Color	Quality	Purposes	Habit	Hardiness	
Cl'ss 1	*Moore's Early	Mas	l	l	b	b	t m	v	v h	...	
	White Ann Arbor	Mic	v l	v l	w	b	t m	...	v h	v p	
	*Brighton	O	l	l	r	b	t m	v	v h	p	
	Golden Proclington	N Y	v l	v l	y	b	t m	v	v h	v p	
	Prentiss	N Y	l	m—	w	b	t k	v	h	p	
	†Oneida	N Y	l	r	b	t k	v	h	p		
Cl'ss 2	Early Champion	...	m—	l	b	v g	t m	v	h	p	
	*Telegraph	Pa.	m—	m—	b	v g	t m	v	h	v p	
	Salem R. No 53	Mas	l	l	r	v g	t k	v	h	p	
	Elvira	Mo.	m	m	w	b	w	...	v h	v p	
	*Goethe R. No 1	Mas	l	v l	y	b	t m	w v	h	v p	
Cl'ss 3	*Wilder R. No 4	Mas	l	l—	b	b	t m	v	v h	v p	
	Martha	Mo.	m	m—	w	v g	t m	v	v h	p	
	*Diana	Mas	l	m	r	v g	t k	v	h	p	
	Cynthiana	Kas	m	m	b	b	w	v	h	p	
Cl'ss 4	Concord	Mas	l	l	b	v g	t	v	v h	p	

Any of the above not erased.

Each.

Per 10.

Per 50.

Per 100.

Class (1) two years old										
" " one year "										
" (2) two years "										
" " one year "										
" (3) two years "										
" " one year "										
" (4) two years "										
" " one year "										

*Leading varietiss. †Specials not offered except when noted.

Quantity wanted.	CURRANTS.										Productiveness.
	Do best on north slope, or protected from hot south winds and sun.	Year.	Origin	Bunch	Berry	Color	Quality	Habit	Hardiness		
Class 1	†Fay's Prolific (new)	.....	N Y	v l	v l	r — b	v	.....	v p		
	La Versailles	.....	Fra'ce	l —	v l	r — b	v v	.....	v p		
	White Grape	.....		m —	v l	w y b	m	.....	v p		
Class 2	†Black Naples	.....			v l	b b	v	v h	p		
	White Dutch	.....		m	s —	w y b		.....			
	†Victoria	.....		v l	l	r b	m	.....	v p		

Any of the above not erased.

Each.

Per 10.

Class (1), two years old										
" " one year "										
" (2) two years "										
" " one year "										

†Leading varieties. †Specials not offered except when noted.

Quan want'd	GOOSEBERRIES.	Y r.	Origin	Size	Flesh	Color	Quality	Habit	Hardiness	Productness
	3, Flesh, f, firm; t, tender.									
Cl'ss 1	Downing		N Y	v l	f	v	b	v	v	v p
Cl'ss 2	Houghton's		Mass.	m	f	r	v g	v	v h	v p
	Smith's Improved		Vt.	l	f	g	v g	v	v	v p
Any of the above not erased.			Each.	Per 10.						
Class (1), two years old.										
" " one year "										
" (2) two years "										
" " one year "										

†Leading varieties.

	Quan want'd	STRAWBERRIES.	Origin.....	Size.....	Flesh.....	Color.....	Quality.....	Habit.....	Hardiness.....	Productness.....
		4, Color, s, scarlet; c, crimson; b, brilliant; r, red.								
Cl'ss 1	...	†Big Bob (P).....	Ohio.	v l	f	r—	b v	v—	v h	v p
	...	Sharpless (H).....	Pa.....	v l	f	—r	v g	v	h	p
	...	Glendale (H).....	Ohio.	l—	v f	s—	v g	v v	v h	p
Cl'ss 2	...	Bidwell (H).....	Mich.	l—	v f	b	b v	v v	v h	v p
	...	Captain Jack (H).....	Mo.....	m—	v f	c—	v g	v—	v h	v p
	...	†Cumberland (H).....	Pa.....	l—	f	—s	b	v v	v h	v p
	...	Windsor Chief (P)....	Mich.	l	v f	s	v g	v	v h	p—
Cl'ss 3	...	Crescent Seedling (P).....	.....	l	f	b	v g	v v	v h	v p
	...	†Charles Downing (H).....	Ky.....	l	f	s	v g	v v	v h	p—
	...	Kentucky (H).....	Ky.....	l	f	s—	v g	v v	h	p

†Leading varieties. †Specials not offered except when noted.

Quan want'd	RASPBERRIES.		Origin	Size	Flesh	Color	Quality	Habit	Hardiness . .	Productness .
Cl'ss 1	†Hansel	N J .	m—	v f	r	b	v	v h	p	
	†Tyler		l	v	b	v g	v	v h	v p	
	†Gregg	Ind .	v l	v f	b	v g	v	v h	v p	
Cl'ss 2	†Thwack	Mo .	l	v f	r	v g	v	v h	v p	
	Davidson's Thornless	N Y .	m	v	b	v g	v	h	p	
	†Mammoth Cluster		l	f	b	b	v v	h	p—	
	†Turner	Ill .	l	f	r	b	v v	v h	v p	
Any of the above not erased.		Per 10.	Per 50.	Per 100.						

†Leading varieties. †Specials not offered except when noted.

	Quan want'd	BLACKBERRIES.	Origin	Size	Flesh	Color	Quality	Habit	Hardiness	Productness
Cl'ss 1		†Staymen's Early	Kas.	l	....	b	b	....	h—	v p
		Brunton's "	....	m—	....	b	v g	....	h	p—
Cl'ss 2		†Taylor's Prolific	....	l	....	b	b	v v	v h	v p
		Wilson's Early	N J.	l—	f	b	v g	m	—h	v p
		†Snyder	....	m	....	b	b	....	v h	v p
		Kittatinny	N J.	l—	f	b	b	v v	h	v p

Any of the above not erased.		Per 10.	Per 50.	Per 100.		
Class (1)	....	....	....	....	....	....
" (2)	....	....	....	....	....	....

†Leading varieties. †Specials not offered except when noted.

Quan want'd	JUNE BERRIES (Shad Bush.)	Each.	Per 10.	
....	Will grow anywhere, valuable...			
RHUBARB.				
....	Linnaeus, earliest and best.			
...	Victoria, late, very large			

Sea'n in bl'm	Quan want'd	ORNAMENTAL SHRUBS—All hardy. (Class 1.)	Each.	Per 10
Apr & May.		Flowering Almond, P Alba, white, double	....	....
May & June.		Deutzia, Crenata, f P Alba, pure white, double	....	....
"		Prunus, Trilobata, pink, semi double, desirable	....	....
"		Weigelia, Hortensis Nivea, pure white, vigorous	....	....
"		" variegated leaved, bright pink flowers	....	....
"		Lilac, (syringa) Chas X, purple, strong grower	....	....
"		" " Persian White, very fine	....	....
"		Snow Ball (Viburnum) Plicatum Japan, new	....	....
May & July.		Azalea, Indica Alba, white, fine for cemetery	....	....
June & July.		Tree Paeonies, pink, double, very desirable	....	....
"		" " white, double, refreshing fragrance	....	....
"		White Fringe Tree (Chionanthus), beautiful	....	....
"		Purple " (Rhus Cotinus), very desirable	....	....
Aug & Sept.		Althea, Rosen Magna, pink, double	....	....
"		" variegated leaved, double, purple, attractive	....	....
Aug to Nov.		Hydrangea, P, grandiflora, white, very large	....	....
(Class 2.)				
Apr & May.		Flowering Almond, Pumila Rosea, rose, double	....	....
May & June.		Deutzia, Crenata, Fl Plena, white and pink	....	....
"		Prunus, Virgata Rosea Plena, rose, double	....	....
"		Weigelia, Rosea, rose, the finest of Weigelias	....	....
"		Azalea, Ponticum, yellow, free flowering	....	....
"		Lilac (syringa) common purple	....	....
"		" " white	....	....
"		Snow Ball (Viburnum) Opulus, common	....	....
"		Japan Quince (Pyrus Paponica) scarlet	....	....

Sea'n in bl'm	Quan want'd	ORNMENTAL CHRUBS.—Continued. (Class 2.)	Each.	Per 10
May & June.		Japan Quince (Pyrus Japonica) Alba blush.	....	....
"		Spirea Lanceolata, white, large clusters	....	....
"		" Billiardi, rose, blooms neaaly all summer.	....	....
June & July.		Honeysuckle (Lonicera) Tartarian Rubra, pink.	....	....
"		" " Alba, white.	....	....
Aug & Sept.		Althea (Rose of Sharon) variegated, pnk & w'te, dbl	....	....
"		" " rose, double, a val. addition	....	....
"		" single, any color, all desirable.	....	....
EVERGREEN SHRUBS.				
May & June.		Rhododendron, Rose Bay, the finest.	....	....
July.		Yucca, Gloriosa Superba, the best of all Yuccas.	....	....
"		Arbor Vitæ, Siberian, perfectly hardy	....	....
VINES AND CREEPERS—Class 1.				
May & June.		Wisteria, Sinensis Alba, pure white.	....	....
August.		Clematis, Jackmanni, very strong grower, purple.	....	....
"		Bignonia, Capreolata, evergreen, beautiful.	....	....
"		Ampelopsis, Veitchii, the finest of Ivas	....	....
(Class 2.)				
May & June.		Wisteria, Chinese Sinensis, pale blue	....	....
August.		Clematis, Flamula, white and fragrant.	....	....
"		Bignonia, Radicans, large scarlet	....	....
"		Honeysuckle (Lonicera) Magneville, frag ever'n	....	....
"		" Belgica, monthly, very sweet.	....	....
June & July.		" Periclymena, common woodbine	....	....

Prices indicated are for stock from open ground.

	Quan want'd	ROSES—MOSS.	Each.	Per 10
Class (1)		White Bath, white, very mossy, beautiful.	....	....
		Comtesse de Muvonats, blush, strong grower.	....	....
		Glory of Mosses, pale rose, very large, full & handsome	....	....
		Princesse Adelaide, deep rose, strong grower.	....	....
		Luxembourg, crim, purp., large cup'd, strg gr, free blm	....	....
Class (2)		HYBRID PERPETUALS.	....	....
		Madam Plantier (H C) pure white, one of the finest.	....	....
		Caroline de Sansel, blush, vigorous, free bloomer.	....	....
		La Reine, bright rosy pink, extra large, dbl and sweet	....	....
		Baronne Prevost, deep rose, very double, extra fine.	....	....
		Lord Raglan, fiery crimson, large, vig., a superb rose.	....	....
		Yellow Cabbage (Brier) deep yellow, very double.	....	....
Class (3)		CLIMBING ROSES.	....	....
		Baltimore Belle, blush white, blms in large clus., fine	....	....
		Seven Sisters, light rose, changing col. when frs expd	....	....
		Queen of the Prairie, bright rose, free, one of the best	....	....
		Laura Devorest, deep rose, immense truss, vigor's, fine	....	....
The prices indicated are for stock from open ground.				
Class (1), Roses, second size, in pots.				
" (2), " " " " " "				
" (3), " " " " " "				

AND PRICE LIST.

Quant'd	ORNAMENTAL AND SHADE TREES.	Each.	Per 10
Class (1)	Magnolia, Umbrella, grows 30 to 40 ft, 5-6, 4 5, 3-4		
	Mountain Ash, oak leaved, gr's 15 to 20 ft, " " "		
Class (2)	Catalpa, Teas hybrid, fine " " "		
	Magnolia, Cucumber, grows 60 to 70 feet " " "		
	Chestnut, American sweet, rapid grower " " "		
Class (3)	Mulberry, Russian, " " " " " "		
	Elm, American white, " " 7-8, 5-7, 4-5		
	Cottonwood, " " " " " "		
	Sycamore, " " 6-7, 4-6, 3-4		
	Black Walnut, " " " " " "		
	Butternut, " " 5-6, 4-5, 3-4		
	Box Elder, Ash Leaved Maple, " " " " " "		
	Catalpa, Speciosa, " " " " " "		

The prices indicated above are for first sizes.

Class (1), second size

" " third "

Class (2) second size

" " third "

Class (3) second size

" " third "

WEeping TREES.

Class (1)	Birch, Cut Leaved, beautiful, 5-6, 4-5		
	Elm, Camperdowns, grafted, 7 and 6 feet		
	Willow, Kilmarnock, " " "		
	Mountain Ash, " " "		
Class (2)	Birch, European White 5-6, 4-5		
	Elm, Galena, " " "		
	Maple, Wiers cut leaved, 7-8, 5-7		
	Willow, Babylonica, " " "		

The prices indicated above are for first sizes.

Class (1) second size

" (2) " "

EVERGREEN TREES.

	Pine, Austrian, 3-4, 2-3		
	" Scotch, " " "		
	" White, " " "		
	Spruce Norway, " " "		
	Cedar, red, nursery grown, " " "		

The prices indicated above are for first sizes

Second size much preferable

HEDGE PLANTS.

	Buckthorn, exceedingly hardy	Pr 100	P 1000
	Privet, for ornamental hedge		
	Pyrus Japonica, for ornamental hedge		
	Osage Orange, one year, No. 1		

EVERGREEN HEDGE PLANTS.

	Arbor Vita, Siberian, exceedingly hardy		
	Red Cedar, 6 to 9 inches, " "		
	Norway Spruce, for wind protection		

PROPER DISTANCE FOR PLANTING.

Standard Apples 25 to 30 feet apart each way.
 Crab Apples, 20 " " " "
 Standard Pears, 20 " " " "
 Dwarf Pears and Quinces, 10 feet apart each way.
 Peaches and Cherries, 18 to 20 " " " "
 Plums and Apricots, 16 to 18 " " " "
 Grapes, rows 10 to 14 feet apart, 8 to 16 feet apart in the rows.
 Currants and Gooseberries, 3 to 4 feet apart each way.
 Strawberries, 1 to 1½ in rows, by 3 to 4 between rows.
 Raspberries and Blackberries, 3 to 4 by 5 to 6 feet apart.

Number of Trees or Plants to an Acre at Various Distances.

2 feet apart each way	10,890	14 feet apart each way	222
4 " " " "	2,722	16 " " " "	170
6 " " " "	1,270	18 " " " "	134
8 " " " "	680	20 " " " "	108
10 " " " "	435	25 " " " "	69
12 " " " "	302	30 " " " "	48

Rule.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet for each plant or hill, which, divided into the number of feet in an acre (43,560), will give the number of plants or trees required to the acre.

NOTICE.—Our salesmen are positively restricted from taking orders for varieties outside of this Catalogue, from selling in quantities greater than indicated at the head of columns in price list at reduced prices, or at prices differing in any way from those specially given them in a copy of this work, or by any other description than that indicated and not erased; except by special order and consent from headquarters.

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