

OPTIMARA® GROWER CATALOG 2012-2013



Holtkamp Greenhouse, Inc.
1501 Lischey Avenue Nashville, TN 37207
1-800-443-2290
<http://catalog.optimara.com> <http://www.optimara.info>



Consumer Support

Optimara can be helpful by providing various sources of information, reference and guidance for customers on the world wide web.

<http://www.optimara.com> and <http://catalog.optimara.com>



Certification

The certification "Proudly Grown in the USA" denotes quality and origin of products grown and sold in the USA. By displaying the official certification mark as shown here, Optimara is displaying the fact that it is creating jobs in the USA and producing a product in this country which meets or exceeds quality standards set forth by the Produce Marketing Association (PMA).

Social Responsibility

In 1997, Optimara developed a Social Responsibility Program covering those who provide goods and services to the company. This Program establishes strict working guidelines and humanitarian conditions under which items are to be manufactured.

The objective of this program is to assure a safe and equitable working environment for workers and prevent their exploitation. Since the inception of the program, this objective has been met by resolving several issues where working conditions have significantly been improved above the normally required standards. The program has been successful for the employee, who has a more enjoyable working experience, and the employer, who has a more stable, productive workforce. The results of this program make it possible for Optimara and its customers to enjoy better products, consistent in quality, at a fair and reasonable price.

We are proud of the fact that we can not only offer a high quality value product, but we can proudly say that all Optimara products are produced in a *Socially Responsible* working environment.



myViolet.com will provide your customers with:

- Unique access code for each violet sold
- Specific variety identification
- Detailed growing instructions
- Unique diagnostic tool of your African Violets health and potential
- Chat with an expert
- No more guess work of what to do next
- Symptoms based recommendations from Dr. Optimara to help grow beautiful violets.
- Progress analysis and recommendations of how to gown bigger, healthier and more beautiful African Violets.
- Insights into new and unique varieties to come out of Research and Development
- Consumer account setup and mailing list registration
- Pre-alerts of incoming shipments to favorite/closest Optimara retail location
- Downloadable screen savers of our many award winning Optimara African Violet varieties
- Join a growing group of African Violet lovers
- On-line blogging
- More to come...

The new and innovative website to help the consumer grow more beautiful African Violets. Optimara is expanding on its company's tradition of EasyGrowing / EasyCare with [myViolet.com!](http://myViolet.com)

Everyone can enjoy the rewarding experience of growing beautiful Optimara African Violets. One just needs to know how. Let myViolet.com guide your customer.

6" EverFloris™



EverBeautiful #30963



EverGlory #30971



EverGrace #30920



EverPraise #30980



EverJoy #30990



EverLove #30960



EverSpecial #30921

Starting at
\$.99 Each
Minimum Order of
150 (3 trays/1 box)
Volume discounts
available.



EverRejoice #30975



EverPrecious #30981



Holtkamp Greenhouses, Inc.
PO Box 78565 Nashville, TN 37216
<http://catalog.optimara.com>



EverYoung #30951

EVERFLORIS™ 6" AFRICAN VIOLET

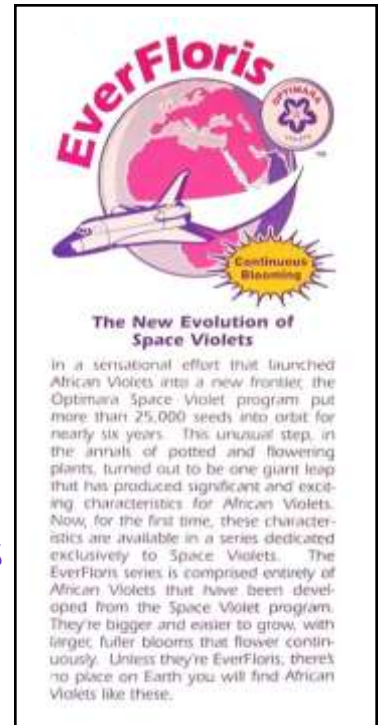
Introducing the Re-Evolutionary African Violet

Trial Pack Offer



Trial Pack Offer
150 Plugs
3 sets of 50 plugs
assortment of
available varieties

\$149
Item #32007



- 50 cell tray provides larger plant.
- 15 weeks to finish in 6" pot.
- 10 weeks to finish in 4" pot.
- EverFloris violet produces more than twice the bud count as compared to standard violet varieties.
- Plants have thick curly leaves and larger plant mass than standard violet varieties.
- This variety is considered a "Space Baby" since its genetic background is descended from seeds that were in outer space for 5 1/2 years.
- Ideal plant for 6" production.



- Each plant comes with a plant care tag and stake!
- Box and shipping charges still apply



© 2003 All designs and shapes on these pages are the copyright of Holtkamp Greenhouses, Inc. USA.
Partial or whole reproduction is prohibited. Optimara and EverFloris are trademarks for IPB Breeding, Bern Switzerland

Holtkamp Greenhouses, Inc. PO Box 78565 Nashville, TN 37216 <http://catalog.optimara.com>

1-800-443-2290



Sold as assorted color. URC Item #20004 / RC Item #20000



Arapahoe



Azurite



Aztec



Blackfoot



Cheyenne



Comanche



Creek



Crystal



Hopi



Maya



Oneida



Ottawa



Wichita

Starting at

\$.32 Ea. URC
\$.47 Ea. RC
RC Minimum Order of 328
(4 trays/1 box)
Call for URC Minimums

Volume discounts available.



Sold as assorted color. URC Item # 29990 / RC Item #30000



Andrea



Anika



AnnaBelle



Arkansas



Chico



Connecticut



Colorado



Cora



Dali



Degas



Delaware



Evelyn



Sold as assorted color. URC Item # 29990 / RC Item #30000



Gauguin



Georgia



Gisela



Harlequin



Hawaii



Hiroshige



Indiana



Joan



Juliana



Kentucky



Louisiana



Maine



designates large variety plant also grown as a 6 inch variety



Sold as assorted color. URC Item # 29990 / RC Item #30000



Manitoba



Maui



Michele



Michigan



Miho



Millennia



Modesty



Natalie



New Jersey



North Carolina



Ontario



Patricia



Sold as assorted color. URC Item # 29990 / RC Item #30000



Pennsylvania



Rebecca



Rita



Sami



Scarlet



Seurat



Stephanie



Tennessee



Teresa



Texas



Virginia



Wisconsin



designates large variety plant also grown as a 6 inch variety



myViolet.com



MyCharm



MyDesire



MyJoy



MyDream



MyLove

My Violet Series URC Item # 29994

Starting at

\$.35 Ea. URC
\$.52 Ea. RC
Minimum Order of 328
(4 trays/1 box)
Call for URC Minimums

Volume discounts available.

OPTIMARA
Premium Collector's
tags available
item # 70096



Violet Grower Program

Optimara now offers its customers an even greater selection of its already unsurpassed Violet program. The Optimara varieties are easy-to-grow and come in many captivating colors. With over 50 varieties available in four stages, Optimara offers a program no other grower offers to their customers. Holtkamp Greenhouses is the proud recipient of the 1999 SAF Gold Medal Award honoring the originator of a widely distributed plant that has become established as having an outstanding horticultural and commercial value.



Un-rooted Baby Item # 29990:

A premium un-rooted baby (cutting) 2" to 2 1/2" in length, featuring a strong center heart, handpicked and graded for constant caliper. Six to seven weeks to potting. Only 9 to 10 weeks after potting for a premium finished product.



Starter / Liner Item # 30000:

Only 9 to 10 weeks to finish. Large selection of over 50 varieties in the 4 inch series. Tray of 72 (4 tray min). Additional sizes are the super sized 6 inch series and the 2 inch miniature varieties.



Holtkamp Greenhouses, Inc. PO Box 78565 Nashville, TN 37216 <http://catalog.optimara.com>

1-800-443-2290

4" GROWER PROGRAM



Small Pre-Finished Item # 40020

Only 3-4 weeks from Finished.
Assorted Varieties. Vigorous
growth with many visible buds.
Set to final spacing.



Large Pre-Finished Item # 40030

Only 2 weeks from finished. One
to two open blooms with many
visible buds ready to open quickly.





July

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

July 4: Independence Day

Sep 03: Labor Day

Sep 9: Grandparents Day

Oct 8: Columbus Day

Oct 31: Halloween

Nov 11: Veteran's Day

Nov 22: Thanksgiving Day

Dec 25: Christmas Day

August

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

September

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

October

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

November

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

December

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

January 1: New Year's Day

Jan 21: Martin Luther King Day

Feb 2: Groundhog Day

Feb 14: Valentine's Day

Feb 18: Presidents' Day

Mar 17: St. Patrick's Day

Mar 31: Easter Sunday

Apr 01: Easter Monday

Apr 24: Secretary Day

Apr 22: Earth Day

May 12: Mother's Day

May 27: Memorial Day

Jun 16: Father's Day

January 2013						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

February 2013						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

March 2013						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

April 2013						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

May 2013						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

June 2013						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Elatior Begonias



**Baladin
Barkos Type**



**Balamon
Barkos Type**



**Barkos
Barkos Type**



**Borias
Barkos Type**



**Berseba
Barkos Type**



**Berseba Light Pink
Barkos Type**



**Berseba Red
Barkos Type**



**Binos
Barkos Type**



**Binos Pink
Barkos Type**



**Binos Soft Pink
Barkos Type**



**Bright Red
Cottage Type**



**Double Pink
Cottage Type**

Elatior Begonias



**Salmon
Cottage Type**



**Vintage Pink
Cottage Type**



**Batik
Ilona Type**



**Blitz
Ilona Type**



**Red Fox® Bon Bon
Ilona Type**



**Red Fox® Bonbon White
Ilona Type**



**Britt Dark
Ilona Type**



**Camilla
Ilona Type**



**Red Fox® Carneval
Ilona Type**



**Red Fox® Cindy Fringed
Ilona Type**



**Clara
Ilona Type**



**Red Fox® Clara Fringed
Ilona Type**

Elatior Begonias



**Red Fox® Dragone
Ilona Type**



**Red Fox® Dragone Champagne
Ilona Type**



**Red Fox® Eva
Ilona Type**



**Red Fox® Janny Fringed
Ilona Type**



**Red Fox® Julie
Ilona Type**



**Red Fox® Kristy Fringed
Ilona Type**



**Red Fox® Nadine
Ilona Type**



**Nelly
Ilona Type**



**Netja Dark
Ilona Type**



**Red Fox® Netja Fringed
Ilona Type**



**Red Fox® Peggy
Ilona Type**



**Red Baron Dark
Ilona Type**

Elatior Begonias



**Red Fox® Sandrine
Ilona Type**



**Sweet Dreams
Ilona Type**



**Red Fox® Veronica
Ilona Type**



**Lax
Ilona Type**



**Glory
Ilona Type**



**Ceveca
Special Type**



**Bromo
Volcano Type**



**Etna
Volcano Type**



**Krakatau
Volcano Type**



**Virunga
Volcano Type**

myBegonia
.com

Elatior Variety Listing

Type	Variety	RC Item Number	URC Item Number	Color	Price Group	Royalty
Barkos	Berseba Light Pink	36064	10064	P L	2	\$0.05
Barkos	Berseba Red	36055	10055	R	2	\$0.05
Barkos	Baladin	36072	10072	R D	2	\$0.05
Barkos	Balamon	36073	10073	R O	2	\$0.05
Barkos	Barkos	36032	10032	R D	2	\$0.05
Barkos	Berseba	36074	10074	P D	2	\$0.05
Barkos	Binos	36075	10022	P L	2	\$0.05
Barkos	Borias	36048	10048	P BC	2	\$0.075
Cottage	Bright Red	39685	13685	R	2	\$0.10
Cottage	Double Pink	39690	13690	P	2	\$0.10
Cottage	Salmon	39695	13695	S	2	\$0.10
Cottage	Vintage Pink	39698	13698	L P	2	\$0.10
Cottage	White	39700	13700	W	2	\$0.10
Ilona	Britt Dark	36003	10003	O BC	1	\$0.00
Ilona	Batik	36002	10002	O D	1	\$0.00
Ilona	Blitz	36095	10095	Y M	1	\$0.00
Ilona	Camilla	36004	10004	P W	1	\$0.00
Ilona	Clara	36006	10006	W R	1	\$0.00
Ilona	Nelly	36014	10014	P M	1	\$0.00
Ilona	Netja Dark	36015	10015	P BC	1	\$0.00
Ilona	Lax	36046	10046	A	1	\$0.075
Ilona	Glory	36042	10042	P	1	\$0.075
Ilona	Red Fox® Carneval	36005	10005	O BC	1	\$0.05
Ilona	Red Fox® Cindy Frinjed	36017	10017	W R	1	\$0.05
Ilona	Red Fox® Clara Frinjed	36018	10018	W	1	\$0.05
Ilona	Red Fox® Eva	36117	11017	Y	1	\$0.05
Ilona	Red Fox® Janny Frinjed	36020	10020	O A	1	\$0.05
Ilona	Red Fox® Julie	36007	10007	Y BC	1	\$0.05
Ilona	Red Fox® Kristy Frinjed	36021	10021	P L	1	\$0.05
Ilona	Red Fox® Nadine	36013	10013	Y D	1	\$0.05
Ilona	Red Fox® Netja Frinjed	36023	10023	P BC	1	\$0.05
Ilona	Red Fox® Peggy	36069	10069	P BC	1	\$0.05
Ilona	Red Baron Dark	36125	10125	R	1	\$0.05
Ilona	Red Fox® Sandrine	36090	10090	P D	1	\$0.05
Ilona	Sweet Dreams	36083	10083	P	2	\$0.05
Ilona	Red Fox® Veronica	36085	10085	R D	1	\$0.05
Ilona	Ceveca	36036	10036	P	1	\$0.00
Ilona	Red Fox® Dragone (Dusty Rose)	36066	10066	P	1	\$0.05
Ilona	Red Fox® Dragone Champagne	36084	10084	P	1	\$0.05
Volcano	Red Fox® Volcano Bromo	36034	10034	P	1	\$0.05
Volcano	Red Fox® Volcano Etna	36038	10038	O	1	\$0.05
Volcano	Red Fox® Volcano Krakatau	36035	11035	R	1	\$0.05
Volcano	Red Fox® Volcano Virungu	36033	11033	Y	1	\$0.05

Colors Codes	
A	Apricot
BC	Bi-Color of same
D	Dark
L	Light
M	Medium
O	Orange
P	Pink
R	Red
S	Salmon
SP	Soft Pink
W	White
Y	Yellow

OPTIMARA Elatior Begonia tags available Item # 70098



Starting at

\$.34 Ea. URC Grp 1
\$.38 Ea. URC Grp 2
\$.70 Ea. RC Grp 1
\$.72 Ea. RC Grp 2

RC Minimum Order of 150 (3 trays/1 box)
Call for URC Minimums



Red Improved
URC Item #: 30009



Soft Pink
URC Item #: 30022
RC Item #: 40007



Light Pink
URC Item #: 30002
RC Item #: 40006

Solenia Begonias

Starting
at

**\$.38 Each URC &
\$.72 Each RC**
**Minimum RC Order of 150
(3 trays - 50Cell/1 box)**
Call for URC Minimums

Gross volume discounts
are available.



Red Orange
URC Item #: 30024
RC Item #: 40010



Orange
URC Item #: 30003
RC Item #: 40001



Dark Pink
URC Item #: 30001



Light Yellow
URC Item #: 30016
RC Item #: 40012

Waterfall Begonia



Waterfall Begonias:

Encanto Orange
URC Item #30064
RC Item #31064

Rainbow Falls Red
URC Item #30060
RC Item #

Victoria Falls
URC Item #30050
RC Item #31050

Angelfall Begonias:

Soft Pink
URC Item # 30071
RC Item #

White Blush
URC Item # 30072
RC Item #

The Begonia Encanto Orange and the Begonia Victoria Falls Red have been granted the Award of Garden Merit by The Royal Horticultural Society (RHS).

Both products were recognized because of their vivid colors, being highly floriferous and their nice habit.

The RHS Award of Garden Merit (AGM) came into existence in 1922 to help gardeners make informed choices about plants.

Starting at

**\$.38 Each URC &
\$.72 Each RC
Minimum RC Order of 150
(3 trays - 50Cell/1 box)
Call for URC Minimums**

Volume discounts available.

2012-2013 Holiday Begonia Series Featuring...



Winter Alias: Peppermint

Alias: Borias RC item #: 36048



Winter Alias: Christmas Red

Alias: Berseba Red RC item #:36032



Winter Alias: Winter White

Alias: Clara RC item #:36006

- ◆ 50 cell tray
- ◆ 16 weeks to finish in 6" pot.
- ◆ 14 weeks to finish in 4" pot.
 - ◆ Perfect for gifting
- ◆ Mix with foliage to produce a year round basket
 - ◆ Holiday theme alternative to the Poinsettia
- ◆ Ideal plant for 6" production.

**Special 3 Pack of
50 cell trays
1 Christmas Red
1 Winter White
1 Peppermint
\$99**

Box and shipping
charges still apply

(Order as Holiday Series not as
3 different varieties.)

**This Holiday Series can
be used as decoration
even after the holidays!**

Order EARLY to have shipped week 38-41 for your 2012 Christmas season!
Order a minimum of 3 new boxes by week 15 and receive 1/2 off shipping!

Holtkamp Greenhouses, Inc. PO Box 78565 Nashville, TN 37216 <http://catalog.optimara.com>

1-800-443-2290



Rosalina™

KALANCHOË



Rosalina is a registered trademark #3298252 of Knapp Licenties BV Corp. Fed. Rep., Netherlands



Kalanchoe



Don Alberto
URC ITEM # 14020
RC ITEM # 33020



Don Basco
URC ITEM # 14021
RC ITEM # 33021



Don Frederico
URC ITEM # 14022
RC ITEM # 33022



Don Geraldo
URC ITEM # 14023
RC ITEM # 33023



Don Imano
URC ITEM # 14024
RC ITEM # 33024



Don Juan
URC ITEM # 14025
RC ITEM # 33025

Kal anchoe



Don Martino
URC ITEM # 14026
RC ITEM # 33026



Don Nando
URC ITEM # 14027
RC ITEM # 33027



Don Sergio
URC ITEM # 14028
RC ITEM # 33028



Don Tonio
URC ITEM # 14029
RC ITEM # 33029



Don Ramon
URC ITEM # 14030
RC ITEM # 33030



Rosalina Don Angelo
URC ITEM # 14031
RC ITEM # 33031



Rosalina Don Darcio
URC ITEM # 14032
RC ITEM # 33032

Taranta™

PRETTY WILD



Taranta Orange

URC ITEM # 14120

RC ITEM # 33120



Taranta Pink

URC ITEM # 14121

RC ITEM # 33121



Taranta Pinkish Red

URC ITEM # 14122

RC ITEM # 33122



Taranta Red

URC ITEM # 14123

RC ITEM # 33123



Taranta White

URC ITEM # 14124

RC ITEM # 33124



Taranta Yellow

URC ITEM # 14125

RC ITEM # 33125



Holtkamp Greenhouses, Inc. PO Box 78565 Nashville, TN 37216 <http://catalog.optimara.com>

1-800-443-2290

Poinsettia Ecostars



URC ONLY



Alreddy Fancy



Alreddy Red



Hollystar Red



Estrella Pink



Estrella Red



Estrella White



Saturnus Pink



Saturnus Red



Saturnus White



Stargazer Pink



Stargazer Red



Stargazer White



Stargazer Marble



Saturnus Twist



Saturnus Marble



Charon Red



Pandora Red

Variety	URC Item #	Plant Habitat	Recommended Pot Size	Max Pot Size	Response Time	V-Habit	Ciaten
Alreddy Fancy	53085	very compact	6 - 10.5cm	13cm	8 weeks	good	less
Alreddy Red	53053	medium	10.5 +cm	13cm	6.5-7 weeks	good	many
Charon Red	53001	medium	12 +cm	19cm	7.5-8 weeks	good	many
Estrella Red	53068	medium	12 +cm	19cm	8 weeks	good	many
Estrella White	53002	medium	12 +cm	19cm	8 weeks	good	many
Estrella Pink	53095	medium	12 +cm	19cm	8 weeks	good	many
Hollystar Red	53004	compact	6 - 12+cm	13cm	8 weeks	perfect	many
Pandora Red	53005	compact	6-12+cm	13cm	7.5 weeks	good	less
Saturnus Marble	53006	medium	6-12+cm	17cm	8 weeks	perfect	many
Saturnus Pink	53007	medium	6-12+cm	17cm	8 weeks	perfect	many
Saturnus Red	53097	medium	6-12+cm	17cm	8 weeks	perfect	many
Saturnus Twist	53008	medium	6-12+cm	17cm	7.5 weeks	perfect	many
Saturnus White	53009	medium	6-12+cm	17cm	7.5 weeks	perfect	many
Stargazer Marble	53087	large	12 +cm	19cm	7.5-8 weeks	good/perfect	many
Stargazer Pink	53010	large	12 +cm	19cm	7.5-8 weeks	good/perfect	many
Stargazer Red	53051	large	12 +cm	19cm	7-7.5 weeks	good/perfect	many
Stargazer White	53089	large	12 +cm	19cm	7.5-8 weeks	good/perfect	many



A study was underway several years ago to understand the range of temperatures for growing poinsettias. In the first study, a comparison was made of how varieties suited to the standard temperature of 20°C (68°F) grew under 17°C (63°F) temperature conditions. Generally, both the plant and bracts are smaller at lower temperatures and therefore these points were very carefully considered during the selection process. The above varieties grow consistently well at either low or high temperatures as developed from this program. This program has indicated that breeding for temperature efficiency can lead to varieties that can perform well under a broader temperature range. This gives the grower the choice to set higher or lower temperatures and therefore choose the timing of delivery and improve the quality without interfering with the growth rate of the crop.



Of the available fern varieties, we carry **Albo Lineata, Boston Compacta, Button Fern, Emerald Queen, Fragrant Maidenhair, Lemon Button, Macho, Mahogany, True Boston, White Rabbits Foot, Autumn, Golden Moss, Japanese Holly, Japanese Painted, Korean Rock, Rosy Maidenhair, Shaggy Shield, Southern Riverwood, Southern Shield, and Tassle.**

Of course we can contract grow a multitude of others with an order of 30 trays.

We grow these varieties in a 72 cell tray, conforming to the dislodging equipment of most growers. If you would like to contract grow a specific variety, please contact your sales rep for pricing.

myFern
.com

**Albo Lineata****LIGHT:** Part Shade to Shade**HEIGHT:** 18-24" (45-60cm)**SPACE:** 18" (45cm) apart**WATER:** Keep well-watered.**FERTILIZER:** Annually with organic matter.**SOIL:** Fertile, humus-rich soil.**TEMPERATURE:** -20°F (-29°C)**Boston Compacta****LIGHT:** Part Shade**HEIGHT:** 18-30" (45-75cm)**SPACE:** 12-18" (30-45cm) apart**WATER:** Keep soil evenly moist.**FERTILIZER:** Apply a balanced liquid fertilizer monthly.**SOIL:** Fertile, humus-rich, well- drained soil.**TEMPERATURE:** Protect from frost.**Button Fern****LIGHT:** Part Shade to Shade**HEIGHT:** 18-24" (45-60cm)**SPACE:** 18" (45cm) apart**WATER:** Keep well-watered.**FERTILIZER:** Annually with organic matter.**SOIL:** Fertile, humus-rich soil.**TEMPERATURE:** -20°F (-29°C)**Emerald Queen****LIGHT:** Part Shade**HEIGHT:** 24-36" (60-90cm)**SPACE:** 36" (90cm) apart**WATER:** Keep soil evenly moist.**FERTILIZER:** Apply a balanced liquid fertilizer monthly.**SOIL:** Fertile, humus-rich, well- drained soil.**TEMPERATURE:** Protect from frost.**Fragrant Maidenhair****LIGHT:** Part Shade to Shade**HEIGHT:** 18-24" (45-60cm)**SPACE:** 18" (45cm) apart**WATER:** Keep well-watered.**FERTILIZER:** Apply a balanced liquid fertilizer monthly.**SOIL:** Fertile, humus-rich, well- drained soil.**TEMPERATURE:** Protect from frost.**Lemon Button****LIGHT:** Part Shade to Shade**HEIGHT:** 18-24" (45-60cm)**SPACE:** 24-36" (60-90cm) apart**WATER:** Keep well-watered.**FERTILIZER:** Annually with organic matter.**SOIL:** Fertile, humus-rich, well-drained soil.**TEMPERATURE:** -40°F (-40°C)

**Macho****LIGHT:** Part Shade**HEIGHT:** 18-48" (45-120cm)**SPACE:** 24-36" (60-90cm) apart**WATER:** Keep soil evenly moist.**FERTILIZER:** Apply a balanced liquid fertilizer monthly.**SOIL:** Fertile, humus-rich, well- drained soil.**TEMPERATURE:** Protect from frost.**Mahogany****LIGHT:** Part Shade to Shade**HEIGHT:** 18-24" (45-60cm)**SPACE:** 18" (45cm) apart**WATER:** Keep well-watered.**FERTILIZER:** Annually with organic matter.**SOIL:** Fertile, humus-rich soil.**TEMPERATURE:** -20°F (-29°C)**Silver Lace****LIGHT:** Part Shade to Shade**HEIGHT:** 18-24" (45-60cm)**SPACE:** 18" (45cm) apart**WATER:** Keep well-watered.**FERTILIZER:** Annually with organic matter.**SOIL:** Fertile, humus-rich soil.**TEMPERATURE:** -20°F (-29°C)**Tricolor****LIGHT:** Part Shade to Shade**HEIGHT:** 18-24" (45-60cm)**SPACE:** 18" (45cm) apart**WATER:** Keep well-watered.**FERTILIZER:** Annually with organic matter.**SOIL:** Fertile, humus-rich soil.**TEMPERATURE:** -20°F (-29°C)**True Boston****LIGHT:** Part Shade**HEIGHT:** 12-24" (30-60cm)**SPACE:** 12-18" (30-45cm) apart**WATER:** Keep soil evenly moist.**FERTILIZER:** Apply a balanced liquid fertilizer monthly.**SOIL:** Fertile, humus-rich, well- drained soil.**TEMPERATURE:** Protect from frost.**White Rabbit Foot****LIGHT:** Part Shade to Shade**HEIGHT:** 18-24" (45-60cm)**SPACE:** 18" (45cm) apart**WATER:** Keep well-watered.**FERTILIZER:** Annually with organic matter.**SOIL:** Fertile, humus-rich soil.**TEMPERATURE:** -20°F (-29°C)



Autumn

LIGHT: Part Shade to Shade
HEIGHT: 18-24" (45-60cm)
SPACE: 18" (45cm) apart
WATER: Keep well-watered.
FERTILIZER: Annually with organic matter.
SOIL: Fertile, humus-rich soil.
TEMPERATURE: -20°F (-29°C)



Japanese Holly

LIGHT: Part Shade to Shade
HEIGHT: 24" (60cm)
SPACE: 24-36" (60-90CM) APART
WATER: Keep well-watered.
FERTILIZER: Annually with organic matter.
SOIL: Fertile, humus-rich, well-drained soil.
TEMPERATURE: -10°F (-23°C)



Japanese Painted

LIGHT: Part Shade to Shade
HEIGHT: 12-18" (30-45cm)
SPACE: 15" (40cm) apart
WATER: Keep well-watered.
FERTILIZER: Annually with organic matter.
SOIL: Fertile, humus-rich soil.
TEMPERATURE: -20°F (-29°C)



Korean Rock

LIGHT: Part Shade to Shade
HEIGHT: 8-20" (20-50cm)
SPACE: 12" (30cm) apart
WATER: Keep well-watered.
FERTILIZER: Annually with organic matter.
SOIL: Fertile, humus-rich, well-drained soil.
TEMPERATURE: -10°F (-23°C)



Rosy Maidenhair

LIGHT: Part Shade
HEIGHT: 12" (30cm)
SPACE: 12" (30cm) apart
WATER: Keep well-watered.
FERTILIZER: Annually with organic matter.
SOIL: Fertile, humus-rich, well- drained soil.
TEMPERATURE: 10°F (-12°C)



Shaggy Shield

LIGHT: Part Shade
HEIGHT: 36" (90cm)
SPACE: 36" (90cm) apart
WATER: Keep well-watered.
FERTILIZER: Annually with organic matter.
SOIL: Fertile, humus-rich soil.
TEMPERATURE: -10°F (-23°C)

**Southern River Wood**

LIGHT: Sun to Part Shade
HEIGHT: 24-30" (60-75cm)
SPACE: 12-18" (30-45cm) apart
WATER: Keep well-watered.
FERTILIZER: Slow release feed in spring.
SOIL: Fertile, humus-rich, well-drained soil.
TEMPERATURE: -10°F (-23°C)

**Southern Shield**

LIGHT: Part Shade to Shade
HEIGHT: 1.5-4' (.45-1.2m)
SPACE: 2-3' (.6-1m) apart
WATER: Keep well-watered.
FERTILIZER: Annually with organic matter.
SOIL: Fertile, humus-rich soil.
TEMPERATURE: -20°F (-29°C)

**Tassel**

LIGHT: Part Shade to Shade
HEIGHT: 24-32" (60-80cm)
SPACE: 24-36" (60-90cm) apart
WATER: Keep well-watered.
FERTILIZER: Annually with organic matter.
SOIL: Fertile, humus-rich, well-drained soil.
TEMPERATURE: -10°F (-23°C)

Visit **myFern**
 for more **.com**
Information.



Tropical Ferns

Variety	Botanical Name	RC Item #	Price
Albo Lineata	Pteris Cretica	34005	Starting at \$0.59
Boston Compacta	Nephrolepis Ex Bostoniensis Compacta	34001	Starting at \$0.59
Button Fern	Pellaea Rotundifolia	34046	Starting at \$0.68
Emerald Queen	Nephrolepis oblitterata	34004	Starting at \$0.59
Fragrant Maidenhair	Adiantum Rad Fragrans	34019	Starting at \$0.64
Lemon Button	Nephrolepis cordifolia	34035	Starting at \$0.59
Macho	Nephrolepis Falcata	34012	Starting at \$0.59
Mahogany	Didymochlaena Truncatula	34010	Starting at \$0.59
True Boston	Nephrolepis exaltata	34002	Starting at \$0.54
White Rabbits Foot	Humata Tyermanii	34028	Starting at \$0.64

Hardy Ferns

Volume discounts available

Variety	Botanical Name	RC Item #	Price
Autumn	Dryopteris erythrosora	34007	Starting at \$0.59
Japanese Holly	Cyrtomium falcatum	34003	Starting at \$0.59
Japanese Painted	Athyrium niponicum	34006	Starting at \$0.59
Korean Rock	Polystichum tsus-simense	34009	Starting at \$0.63
Rosy Maidenhair	Adiantum Hispidulum	34018	Starting at \$0.64
Shaggy Shield	Dryopteris cycadina	34024	Starting at \$0.59
Southern Riverwood	Thelypteris kunthii	34022	Starting at \$0.59
Southern Shield	Dryopteris ludoviciana	34016	Starting at \$0.59
Tassle	Polystichum polybblepharum	34017	Starting at \$0.63

Broker List



Aris Horticulture
P.O. Box 230
115 Third Street SE
Barberton, OH 44203
800-321-9573

Ball Seed
662 Town Road
West Chicago, IL 60185
800-879-2255
Fax: 630-231-3605

Eason Horticulture Resources
350 Thomas More Pkwy
Suite 190
Crestview Hills, KY 41017
800-214-2221
Fax: 859-578-2266

EC Geiger Co.
189 Main Street
Route 63, P.O. Box 285
Harleysville, PA 19438
800-443-4437
Fax: 800-432-9434

E.C.G.C. Distributors, Ltd.
P.O. Box 873
Charles Town, WV 25414
804-378-4277
Fax: 804-378-4278

Express Seed Co.
51051 U.S. Route 20
Oberlin, OH 44074
800-221-3838
Fax: 440-774-2728

Fred C. Gloeckner & Co., Inc.
600 Mamaroneck Avenue
Harrison, NY 10528
914-698-2300
Fax: 914-698-0848

*Griffin Greenhouse and
Nursery Supplies*
200 Mountain View Road
PO Box 709
Morgantown, PA 19543-0709
800-732-3509
Fax: 610-913-3091

G S Grimes Seeds
11335 Concord-Hambden Rd.
Concord, OH 44077
800-241-7333
Fax: 440-352-1800

McHutchison Hort. Distributors
64 Mountain View Blvd.
Wayne, NJ 07470
800-943-2230
Fax: 866-234-8884

Henry F. Michell Co.
Box 60160
225 West Church Road
King of Prussia, PA 19406
800-422-4678
Fax: 610-265-4208

Messick Company
39 North Central Ave.
Campbell, CA 95008
408-871-9816
Fax: 408-871-9839

Bill Moore & Co., Inc.
P.O. Box 1587
Brandon, FL 33509
800-237-7794
Fax: 813-684-5859



For Your Nearest Distributor call:

1-800-443-2290



More than just African Violets!

Optimara is a registered trademark #1075172

Holtkamp Greenhouses, Inc.

1-800-443-2290 <http://catalog.optimara.com>

Holtkamp Greenhouses, Inc. PO Box 78565 Nashville, TN 37216 <http://catalog.optimara.com>