

WELCOME!!

To The Leo Berbee Bulb Company

We offer the finest bulbs and perennials and our staff is dedicated to do everything to assure you receive quality product, on-time shipments and superior customer service. Your satisfaction is important to us!!

Business Hours: Monday thru Friday
8:00 a.m. to 5:00 p.m. EST
(we are closed on most major holidays)

Phone Orders: Regular: 937-642-0511
Toll Free: 800-642-2852
Marjolein @ Ext. 12
Tami @ Ext. 11
Dave @ Ext. 16
Raquel @ Ext. 10

Fax Orders: 937-644-5341
Fax is available 24 hours

Email Orders: marjoleinb@berbeeus.com
tami@berbeeus.com
daved@berbeeus.com
raquel@berbeeus.com

Website: www.berbeeus.com

We accept the following credit cards:



Please provide the credit card number and expiration date when placing your order. When order is shipped payment will be processed through on your card. If you request payment of an invoice by credit card after order has shipped, a 3% credit card processing fee will be added.

**TERMS ARE A PRIVILEGE WE EXTEND OUR
CUSTOMERS
WE RESERVE THE RIGHT TO DELAY/HOLD
ORDERS
IF ACCOUNT IS NOT CURRENT**

*Credit Applications Available
On Request*

**Leo Berbee Bulb Company, Inc.
P.O. Box 670
Marysville, OH 43040**

TERMS & CONDITIONS

Payment & Invoicing

Full remittance is required with order unless credit has been established. You may elect to pay by credit card. Your order amount along with any applicable freight and handling charges will be charged to your credit card at time of shipping. For established credit customers we will invoice your order at time of shipping including any applicable freight and handling charges. We charge 2% per month or 24% annually for account balances past 30 days overdue.

Shipping Methods

We will ship your order prepaid to your destination via UPS Ground, US Priority Mail, or Fedex. The actual freight charges will be added to your order at time of shipping.

Ship Dates

We will ship your order during the week you specify if the product is available at that time. We make every effort to ship on the date requested, however, we will not ship during extreme cold weather.

Pricing

Every effort has been made to assure the pricing in this catalog is correct. However, errors in pricing may occur and we reserve the right to correct these errors.

Cancellations

We reserve the right to refuse requests for cancellation of an order within one week of the scheduled shipdate. If we do allow a cancellation of an order within the one week period or if a shipment is refused after shipment, a \$25.00 restocking fee plus the cost of any plant material unsuitable for reshipping will be incurred and charged to your account. There will be no charge for errors made on our part. All returns must have prior authorization with our customer service department or return shipments will not be accepted.

Limitations of Warranty/Liability

We warrant our product to be in sound, healthy condition at time of shipment, but do not warrant the flowering, other planting, growing or forcing results.
SHORTAGES, DAMAGE IN TRANSIT OR UNACCEPTABLE PRODUCT MUST BE REPORTED WITHIN 8 DAYS OF RECEIPT OF ORDER FOR CONSIDERATION OF ANY CLAIM. We accept no responsibility for the guarantee you give your customers. In no case will Leo Berbee Bulb Company be liable for any dollar amount greater than the sum originally received for the product.

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BULBS IN RETAIL DISPLAY & UNITS

Fall Starter Collection

1150 Favorite Fall Flowerbulbs in Display Boxes
Available Early September
 F.O.B. Marysville, OH

1 Box Crocus - Size 9/10 (150 Bulbs)
1 Box Muscari - Size 9/10 (150 Bulbs)
3 Box Hyacinths - Size 16/17 (150 Bulbs)
4 Box Tulips - Size 12/+ (400 Bulbs)
2 Box Daffodils - Size 14/16 (100 Bulbs)
3 Box Narcissus - Size 14/16 (200 Bulbs)

Amaryllis Gift Kit Units

Available Early October

Apple Blossom - pink
Bouquet - salmon
Dutch Belle - pink
Fantastica - red striped
Lucky Strike - scarlet red
Ludwig Goliath - red
Red Lion - bright red
Maria Goretti - white
Picotee Petticoat - white w/red edge

Indoor growing kits in an assortment of the above varieties. Each kit includes a pot, one bulb (size 26/28), and growing medium in a colorful gift carton.

UNIT A-24 (24 Kits) -
UNIT A-12 (12 Kits) -

Toolbox Growing Kits

Partially cooled flower bulbs (9 weeks of cooling) in handsome tool box with pictures and detailed growing instructions.

Pink Hyacinths Toolbox Includes 5 bulbs and soil
Blue Grape Hyacinths Toolbox Includes 12 bulbs and soil
Yellow Tete-a-Tete Narcissus Toolbox Includes 8 bulbs and soil

Order in multiples of 5 toolboxes per variety. These toolboxes are for indoor growing and are shipped during November and December.

Southern Hemisphere Amaryllis

Available Mid-September to Mid-December
Sorry, No Sales Requiring Export Permit!!
 8 Varieties - 5 of Each Variety
 Tags Included in Price

Paperwhite Indoor Growing Kits

Available Early September

24 Kit Unit - Each color kit box contains 4 paperwhite bulbs, one pot, one bag soil & one bag gravel
12 Kit Unit - Each color kit box contains 4 paperwhite bulbs, one pot, one bag soil & one bag gravel

Hyacinth Glasses & Gift Box Units

Glasses (clear color)

Heavyweight Glasses - Packed 12 Per Case
 Available Early September

Display Gift Box Unit (clear color glass)

Available Early October
 Each Unit Contains: 12 gift boxes, 12 hyacinth glasses, plus 3 white, 4 pink & 5 blue bulbs

The Everbloomin' D'Oro Starter Collection

FALL 2011
FOB West Coast
Available Starting September 1, 2011

4 Varieties - 25 of Each Variety - Pot Tags Included
 (1 Shipping Box)

Stella D'Oro "Queen of Daylilies" - golden yellow ruffled flowers
****Stella Supreme** - soft lemon with a citrus scent
Purple D'Oro - purple flowers with accented yellow throat
****Ruby Stella** - deep wine red flowers

****Berbee Exclusive PP**

BULBS IN RETAIL DISPLAY & UNITS

CROCUS, HYACINTHS, DAFFODILS/NARCISSI

Available Early September - Packed 150 Per Display Box With Picture & Pot Tags

CROCUS	
Large Flowering - Size 9/10 cm. - Ht: 4"	
Crocus Mixed	mixed colors
Flower Record	purple
Golden Yellow	golden yellow
Jeanne D'Arc	white w/purple base
Pickwick	lilac, white striped
Remembrance	violet blue

Fall Flowering - Topsize - Ht: 4"	
Colchicum Lilac Wonder	violet pink - 20/+ - Packed in 10's
Sativus (Saffron)	lilac purple
Zonatus	bluish lilac

Botanical - Topsize - Ht: 3"	
Blue Pearl	white/blue blush
Cream Beauty	creamy yellow
Firefly	violet w/yellow base
Golden Bunch	bright yellow
Snowbunting	white w/bronze
Zwanenburg Bronze	bronze

HYACINTHS	
Available Early September	
Regular Hyacinths - Size 16/17 - Ht: 10"	
Packed 50 Per Box w/Picture & Tags	
Carnegie	white
Blue Jacket	lilac-blue
City Of Haarlem	yellow
Gypsy Queen	dark salmon
Jan Bos	red
Lady Derby	<i>NEW</i> baby pink
Mixed	mixed colors
Pink Pearl	dark pink
Sky Jacket	light blue
Splendid Cornelia	violet purple

Double Hyacinths - Size 16/17 - Ht: 10"	
Packed 50 Per Box w/Picture & Tags	
Hollyhock	double crimson red
King Codro	double blue
Pink Royal	double pink

DAFFODILS/NARCISSI	
Available Early September	
Size 14/16 - Packed 50 Per Box w/Picture	
Actaea - 15"	white, ylw cup, red edge
Barrett Browning - 16"	white w/orange-red cup
Carlton - 14"	large yellow
Dick Wilden - 12"	yellow sport of carlton
Double Mixed - 14"	mixed colors of doubles
Dutch Master - 14"	golden yellow
Fortune - 14"	yellow, orange-red cup
Geranium - 14"	white, deep orange corona
Holland Sensation - 18"	white, dark yellow trumpet
Ice Follies - 14"	white, cream cup
King Alfred - 16"	deep golden yellow
Mixed - 14"	wide selection of colors
Mixed Trumpets - 14"	mixed colors of large trumpets
Mount Hood - 14"	pure white
Pink Pride - 14"	white petals/goblet shaped cup
Professor Einstein 14"	white perianth, scarlet-red corona
Salome - 14"	ivory white, salmon crown
Sempre Avanti - 14"	cream white/brt orange corona
Sir Winston Churchill 14"	multi-headed/strongly scented
Thalia - 10"	pure white, fragrant
Unsurpassable - 14"	greenish yellow/yellow corona
White Lion - 16"	double white/ylw segments
Yellow Cheerfulness-14"	primrose yellow

Exotic Rock Garden Narcissi - 100 Per Box	
February Gold - 14/+ - 8"	yellow, dk yellow trumpet
Jack Snipe - 12/+ - 8"	cream white, yellow cup
Jetfire - 12/+ - 12"	yellow, red/orange cup
Rip Van Winkle - Topsize 8"	yellow spikes <i>NEW</i>
Tête-A-Tête - 12/+ - 6"	buttercup yellow

BULBS IN RETAIL DISPLAY & UNITS

HARDY MISCELLANEOUS BULBS

Available Early September

Variety	Size	Height	Color	Bulbs/Box
Allium Christophii	10/+	14"	lilac blue	50
Allium Karataviense	10/+	10"	white	50
Allium Gigantheum	20/+	48"	lilac blue	15
Allium Gladiator	18/20	18"	purple	15
Allium Globemaster - <i>largest ball type</i>	20/+	20"	purple	15
*Allium Moly	5/+	12"	yellow	150
*Allium Neapolitanum	4/+	12"	white	150
*Allium Ostrowskianum	4/+	12"	dark pink	150
*Allium Sphaerocephalon	5/+	24"	dark purple	150
Allium Purple Sensation	10/+	12-18"	deep purple	50
*Anemone Blanda Mixed	5/+	5"	mixed colors	150
*/**Anemone DeCaen Mixed	7/+	8"	single mixed colors	150
*/**Anemone St. Brigid Mixed	7/+	8"	double mixed colors	150
Arum Italicum <i>NEW</i>	Topsize	16"	orange - looks like lady slipper	75
Camassia Esculenta	Topsize	16"		75
*Chionodoxa Luciliae	5/+	6"	blue	150
*Chionodoxa Pink Giant	5/+	6"	pink	150
*Eranthis Hyemalis	4/+	4"	yellow	150
*/**Freesia Single Mix	5/+	10"	mixed colors	150
*/**Freesia Double Mix	5/+	10"	mixed colors	150
Fritillaria Aurora	20/22	28"	orange	15
Fritillaria Imperialis Rubra	20/+	36"	red	15
Fritillaria Lutea	20/22	30"	yellow	15
*Fritillaria Meleagris	5/+	8"	mixed colors	150
*Fritillaria Michailovskyi	5/+	8"	brown/yellow	150
Iris Dutch Blue Star	8/+	22"	bright blue	150
Iris Dutch Golden Harvest	8/+	22"	lemon yellow	150
Iris Dutch Oriental Beauty	8/+	22"	blue/yellow falls	150
Iris Dutch Purple Sensation	8/+	22"	violet/yellow striped	150
Iris Dutch White Excelsior	8/+	22"	pure white	150
*Iris Specie Katharine Hodgkin	5/+	4"	soft blue/yellow splash	150
*Iris Specie Danfordiae	5/+	3"	yellow	150
*Iris Specie Harmony	5/+	6"	light blue	150
*Ixia Mixed	5/+	12-18"	mixed colors	150
Muscari Armeniacum	9/10	4"	cobalt blue	150
Muscari Album	6/+	6"	white	150
Muscari Blue Spike	9/+	8"	blue	150
Muscari Plumosum	8/+	6"	violet	150
*Ornithogalum Umbellatum	6/+	12"	white	150
Oxalis Adenophylla	6/+	5"	silvery foliage/pink flower	100
*Puschkinia Libanotica	5/+	4"	pale blue	150
Scilla Campanulata Mixed	8/10	12"	mixed colors	150
Scilla Siberica	8/10	8"	blue	150
*Ranunculus Mixed	5/+	10"	mixed colors	150

* 15 PACKAGES; 10 BULBS PER PACKAGE

**NOT WINTER HARDY BULBS

BULBS IN RETAIL DISPLAY & UNITS**TULIPS**

Size 12/+ Cm. - Packed 100 Per Display Box w/Picture & (8)Tags - Available Early September

BOTANICAL TULIPS				
Variety	Height	Color	Group	Flower Time
Glück	12"	red/soft yellow	Kaufmanniana	Early
Golden Emperor	16"	bright yellow	Fosteriana	Early
Orange Emperor	16"	soft orange	Fringed	Early
Pink Emperor	16"	soft pink	Fosteriana	Early
Red Emperor	16"	red	Fosteriana	Early
Red Riding Hood	10"	scarlet	Greigii	Mid
White Emperor	16"	white	Fosteriana	Early

BUNCHFLOWERING TULIPS			
Variety	Height	Color	Flower Time
Color Spectacle	16"	yellow/red flame	Late
Happy Family	16"	pink	Mid
Red Georgette <i>NEW</i>	14"	multi-blooming red	Mid
Toronto	14"	salmon pink	Mid

SINGLE EARLY TULIPS			
Variety	Height	Color	Flower Time
Apricot Beauty	18"	salmon pink	Early
Christmas Dream	14"	salmon pink	Mid
Christmas Marvel	12"	hard pink	Early
Merry Christmas	14"	red	Early
Mickey Mouse	12"	flamed blood red on yellow	Early
Princess Irene	12"	orange/purple flame	Late
Purple Prince	16"	purple	Mid
Yokohama (Kikomachi)	12"	bright yellow	Early

DOUBLE EARLY TULIPS			
Variety	Height	Color	Flower Time
Abba	14"	deep red	Mid
Monte Carlo	10"	bright yellow	Early
Peach Blossom	10"	deep pink	Early

DOUBLE LATE TULIPS			
Variety	Height	Color	Flower Time
Angelique	18"	soft pink	Late
Double Focus <i>NEW</i>	18"	red/yellow flame	Late
Mount Tacoma	18"	creamy white	Late

TRIUMPH TULIPS			
Variety	Height	Color	Flower Time
Annie Schilder	18"	deep orange	Early
Arabian Mystery	16"	purple/white edge	Mid
Attila	20"	soft purple	Mid
Cassini	14"	deep red	Mid
Don Quichotte	20"	pink	Mid
Dreaming Maid	22"	purple/white edge	Mid
Gander's Rhapsody	24"	spotted red on white	Mid
Golden Melody	22"	yellow	Mid
Jan Reus	20"	maroon	Mid
Kees Nelis	18"	red/yellow edge	Mid
Leen V.D. Mark	18"	cardinal red, edged white to top	Mid
Negrita	18"	purple	Mid
Peerless Pink	18"	satiny pink	Mid
Shirley	20"	ivory white/purple edge	Mid
Washington <i>NEW</i>	20"	red/yellow flame	Mid
White Dream	20"	white	Mid

BULBS IN RETAIL DISPLAY & UNITS**TULIPS**

Size 12/+ Cm. - Packed 100 Per Display Box w/Picture & (8)Tags - Available Early September

DARWIN HYBRID TULIPS			
Variety	Height	Color	Flower Time
Apeldoorn	22"	red	Mid
Apeldoorn's Elite	22"	red/yellow edge	Mid
Daydream	22"	orange feathered edge	Mid
Juliette <i>NEW</i>	22"	yellow/red flamed	Late
Golden Apeldoorn	22"	bright yellow	Mid
Golden Parade <i>NEW</i>	22"	golden yellow	Mid
Ivory Floradale	24"	ivory white	Mid
Jewel of Spring	24"	pure yellow, small red edge	Mid
Ollioules	22"	dark pink/silver edge	Mid
Oxford	22"	scarlet	Mid
Pink Impression	22"	pink	Mid
Red Impression	14"	red	Mid
Salmon Impression	18"	soft pink	Mid
Darwin Mixed	22-24"	all colors	Mid

SINGLE LATE TULIPS			
Avignon	26"	red/orange edge	Late
Big Smile	24"	yellow	Late
Blue Aimable	24"	blue	Late
Dordogne	22"	salmon with tangerine	Late
Kingsblood	24"	yellow flamed red	Late
Maureen	28"	creamy white	Late
Menton	26"	peach pink	Late
Mrs. John T. Scheepers	24"	strong yellow	Mid
Queen of Night	24"	almost black	Late
Rembrant Mixed	14"	all colors	Late
Renown	26"	dark pink	Late

VIRIDIFLORA TULIPS			
Artist	12"	orange/green striped	Early
Esperanto	12"	red/green striped, white edged leaves	Late
Groenland	16"	pink/green striped	Late
Spring Green	20"	ivory white/green striped	Late

LILY FLOWERING TULIPS			
Ballerina	22"	orange	Late
Elegant Lady	22"	cream/salmon	Late
Mariette	22"	pink	Late
Maytime	16"	purple/white edge	Late
Mona Lisa	22"	yellow/red stripes	Late
Red Shine	22"	bright red	Mid
White Triumphator	24"	pure white	Mid

PARROT TULIPS			
Black Parrot	20"	black	Late
Blue Parrot	22"	lavender blue	Late
Estella Rijnveld	14"	red/white flame	Late
Fantasy	22"	pink/green striped	Late
Flaming Parrot	28"	yellow/red flame	Late
Orange Favourite	20"	orange/green striped	Late
Rococo	14"	red	Late
Texas Gold	18"	yellow/green striped	Late

BULBS IN RETAIL DISPLAY & UNITS

TULIPS

Size 12/+ Cm. - Packed 100 Per Display Box w/Picture & (8)Tags - Available Early September

FRINGED TULIPS			
Variety	Height	Color	Flower Time
Burgundy Lace	26"	wine red	Late
Daytona <i>NEW</i>	22"	pure white	Late
Hamilton <i>NEW</i>	22"	bright yellow	Late

Specie Tulips (100 Per Box)			
Little Beauty 6/+	4"	purple/green base	Mid
Pulchella Violacea 6/+	4"	dark red	Early
Tarda Dasystemon 6/+	4"	yellow/white edge	Mid

VALUE PROMOTIONAL PACKS

Orders must be placed by August 1, 2011

Value Promotional Pack Hyacinths - 12 bulbs per package, 15 packages per box		
Blue Jacket	15/16	blue
Mixed	15/16	mixed colors
Pink Pearl	15/16	pink
Value Promotional Pack Tulips - 25 bulbs per package, 16 packages per box		
Blue Spring Blend	12/+	mixed blue/purple/white
Darwing Hybrid Mixed	12/+	mixed colors
Double Fun Blend	12/+	mixed double
Golden Oxford	12/+	yellow
Negrita	12/+	purple
Oxford	12/+	red
Pastel Mixed	12/+	mixed colors
Pink Impression	12/+	pink
White Dream	12/+	white
Value Promotional Pack Daffodils - 25 bulbs per package, 12 packages per box		
Dutch Master	14/16	yellow
Ice Follies	14/16	white/yellow cup
Large Cupped Mixed	14/16	mixed colors
Value Promotional Pack Crocus - 50 bulbs per package, 25 packages per box		
Giant Crocus Mixed	8/9	mixed colors

STARTER COLLECTION PACK

Variety	Package description
Hyacinth - Blue Jacket	dark blue - 12 packages; 5 bulbs per package
Hyacinth - Pink Pearl	pink - 12 packages; 5 bulbs per package
Tulip - Negrita	blue - 12 packages; 8 bulbs per package
Tulip - Apeldorn Elite	two tone - 12 packages; 8 bulbs per package
Tulip - Golden Apeldorn	yellow - 12 packages; 8 bulbs per package
Tulip - Kings Blood	red - 12 packages; 8 bulbs per package
Crocus - Mixed	mixed colors - 15 packages; 15 bulbs per package
Iris - Mixed	mixed colors - 20 packages; 8 bulbs per package
Daffodil - King Alfred	yellow - 10 packages; 5 bulbs per package
Narcissi - Ice Follies	white/yellow - 10 packages; 5 bulbs per package
Narcissi - Tete A Tete	yellow - 10 packages; 10 bulbs per package
Muscary - Blue	blue - 25 packages; 10 bulbs per package

BIGGER THAN THE REST - 2011

Some customers who come into your store are looking for a better than average product.

For the past few years we have upgraded some of our crops and can now offer a "bigger than the rest" line of product.

JUMBO TULIPS Packed in 350's <i>Wooden cases with poster</i>	
Golden Parade	yellow
Ivory Floradale	white
Passionale	purple
Pink Impression	pink
Red Impression	red
World's Favourite	red/yellow stripe

SUPER JUMBO TULIP - Packed in 100's	
Margaret Herbst	giant red flower w/brz spotted foliage

JUMBO DAFFODILS - Packed in 125's	
Carlton	large yellow
Dutch Master	yellow
Ice Follies	white/cream
King Alfred	deep golden yellow
Mount Hood	white
Unsurpassable	greenish yellow/yellow corona

JUMBO (40 cm.) AMARYLLIS Packed in 5"s	
Apple Blossom	pink striped
Ludwig Goliath	red
Maria Goretti	white
Red Lion	bright red

JUMBO PAPERWHITE - Packed in 50's	
Nir - 19 cm - Jumbo	white

This truly is a JUMBO Paperwhite Bulb!!

SOUTHERN HEMISPHERE AMARYLLIS FOR CHRISTMAS FORCING

These amaryllis are native to South Africa and Brazil, the perfect locations as far as climate is concerned. The bulbs are harvested early, giving plenty of time to prepare them properly for the market. You will be able to put the potted amaryllis on sale in the early autumn. These amaryllis are ideally suited for growing in pots with a wide range of bulbs of the very highest quality.

Packed 5 Per Variety - Pot Stake Included
Available Mid-September, 2011 through December 31, 2011

Variety	Color	Bulb Size	Stem Length	Stem Count	Bloom Count	Forcing Time
Apple Blossom	B-pink/white	28/30	20"	2	8	5 Wks
Double Dragon	B-Double flower red	28/30	14"	2	7	6 Wks
Matterhorn	B-white	28/30	22"	2	8	6 Wks
Minerva	B-red/white	28/30	20"	2	6	6 Wks
Olaf	B-bright red	28/30	20"	2	8	6 Wks
Picotee	B-white w/red trim	28/30	20"	2	8	6 Wks
Red Lion	B-true red	28/30	16"	2	8	6 Wks
Susan	B-pink	28/30	18"	2	8	5 Wks

Bold Leader	A-dark red	24/26	14"	1.6	7.7	38 Days
Cocktail	A-signal red w/greenish white center	24/26	20"	1.3	5	32 Days
Merry Christmas	A-orient red w/velvety sheen	24/26	12"	1.6	5.2	32 Days
Wedding Dance	A-pure white	24/26	16"	1.3	5.1	30 Days

B=Brazilian Amaryllis A=South African

COMMERCIAL GROWING INSTRUCTIONS

Location for Growing

Amaryllis may be forced in any well ventilated and well heated area. Maintain a CONSTANT temperature day and night of 26° C to 28° C (79° F to 82° F) for optimal results - bottom heating is preferred. During the forcing period the temperature should never fall below 22° C (72° F) or rise above 30° C (86° F). Ensure that the area is well ventilated and that the relative humidity of the air remains as low as possible. A greenhouse in which the above requirements can be maintained is ideal but Hippeastrums may be forced in full light as well as in darkness (until stage 2) as long as the above guidelines as to temperature, ventilation and humidity are followed. If the bulbs have been forced in the dark until stage 2, the plants will need from 4 to 7 days in medium light intensity to form chlorophyll. Rotate pots through 180° (a half turn) every few days if the light source is oblique from one side. Low light conditions and lower temperatures during forcing will result in taller stems at flowering. High light conditions and higher temperatures during forcing will promote shorter stems at flowering

Timing

To delay the flowering, place pots at 9° C (48° F) at stage 2 (before opening of the first bud). At this temperature growth will virtually come to a halt and the plants may be kept at this temperature for up to 10 days. To make the plants resume growth, move the pots to a warmer area. No water should be administered while the plants are 9° C (48° F). To ACCELERATE growth, increase the temperature in the greenhouse, always ensuring an even, constant temperature day and night. Do not exceed 30° C (86° F).

Soil Requirements, Planting, & Watering

Use well drained pH 6.00 to 6.80 sterilized planting medium. The medium must be well draining. Never use fresh manure or tree bark as part of the medium. Ideally the soil mix should consist of 1/3 peat, 1/3 sand, 1/3 compost or 1/2 peat and 1/2 sand or 60% coarse peat + 40% perlite. Branded potting soils such as Sunshine #4 may also be used. Use clean pots which will accommodate the bulb(s) comfortably without much room to spare. Pots must have drainage holes. Do not damage or remove existing roots. Hold the bulb so that the roots hang down into the pot. Firm in the medium around the bulb so that no air pockets remain amongst the roots. The bulb nose should be above the rim of the pot, and the shoulders of the bulb just above the surface of the medium. Pots may be placed against each other on the bench. Do not use saucers. After planting, water thoroughly and firm down the medium well. Subsequently, the medium should be kept only slightly moist. It is important not to overwater as this will inhibit root formation. A slightly dry medium will stimulate regrowth of the root system. Use tepid water of approximately the same temperature as the greenhouse air temperature. Do not water over the bulb noses.

HOLLAND AMARYLLIS

Cultural Information

Availability

Holland Amaryllis are available from October until April. Because of the large assortment that is presently on the market, it is difficult to give an exact forcing schedule. Below we list some varieties and their forcing characteristics. Generally the amaryllis flower more consistently after January 1. As a rule it takes 4 weeks to flower after shoot emerges.

For Christmas	Plant November 10	See Southern Hemisphere Bulbs
For Valentine	Plant December 20	Use only size 30/32 of Ludwig Goliath, Fantastica, Dutch Belle, Apple Blossom or Maria Goretti
For Easter	All varieties and sizes are suitable - schedule shipdate 6 weeks before Easter	

Storage Upon Arrival

Bulbs can be stored easily before planting. Use a low humidity, well-ventilated area. Storage temperature should be 55-60 °F. If the sprouts show, lower the temperature to 41 °F.

Planting

Amaryllis must be planted in a well-drained, pH 6.0-6.5, sterilized planting medium. NEVER USE FRESH MANURE as part of the medium. Normally one bulb is planted per 5 1/2" or 6" (13-15 cm.) standard pot or 3 smaller bulbs in a 8" pot. Plant the bulb with the nose slightly above the rim of the pot - about 1/3 of the bulb will be out of the pot. The use of a plastic pot is preferred.

Spacing

Force bulbs pot to pot on the bench.

Light

Plants should be forced in a low to medium light (1000-5000 ft. candle) intensity greenhouse. It is possible to start bulbs in a dark, temperature-controlled area before the bulbs are placed under lighted conditions.

Watering

After planting, water thoroughly. Subsequently, the medium should be kept only slightly moist. It is important not to overwater the plant in order to stimulate regrowth of the basal root system. **USE TEPID WATER!!** Do not water the bulb nose.

Temperature

Amaryllis are tropical plants and they can be forced over a wide range of temperatures, but 75-80°F (24-27°C) is preferred. Bottom heat should be used. Average forcing time to market stage of development is 6-8 weeks. It will vary with each cultivar and forcing period. It is also important to note that amaryllis lots are somewhat variable and no guarantee as to flowering time can be given.

Ventilation

Force plants in a well ventilated greenhouse. Do not allow relative humidity to build up.

Fertilization

Initially, amaryllis do not need fertilization. After they are marketed consumers should be advised to fertilize the plants.

Marketing, Harvesting and Storage

Amaryllis should be marketed when the floral stalk is 12" (30 cm) tall. Also, it is desirable to have leaf growth of 6-12" and a second stalk beginning to grow. Do not cold store amaryllis plants or flowers. If they need to be held, place them at 50° F (10°C). Whenever possible, plants should be marketed with care tags. The consumer should be informed that amaryllis should be fertilized 1-2 times per month when it is growing. They can be placed outdoors in the pot when the danger of frost has passed. To reforce the plants, they should be taken in the home in the fall, allowed to dry and be stored for at least 8 weeks before cutting off the dried foliage and starting the forcing process. Amaryllis can also be used as cut flowers. They should be cut when the floral buds are colored, but not yet open. To prevent the splitting and outrolling of the cut stem, the flowers can be held in 0.125 sucrose for 24 hours at 72°F (22°C) before shipping.

HOLLAND AMARYLLIS

All amaryllis are sold in multiples of 5 and include either a color or black/white pot tag per bulb. Pictures for most varieties are available upon request.

GALAXY AMARYLLIS (Large Flowering)

Available Early October
 Packed in bulk (5) or display (5)

	Size 24/26	Size 26/28	Size 30/32	Size Jumbo	*Size 40/+ (Super Jumbo)
Apple Blossom - pink striped					
Bouquet - salmon					
Dutch Belle - pink					
Fantastica - red striped					
Lucky Strike - scarlet red					
Ludwig's Goliath - red					
Red Lion - bright red					
Maria Goretti - white					
United Nations - white w/red brush strokes					
LaForest Morton - deep lavender					
Royal Velvet - velvet maroon red					
Picotee Petticoat - white w/red edge					

SPECIAL AMARYLLIS

Available Mid-October - Sold in multiples of 5
 Black/white description tag per bulb included in price

	Size 20/+	Size 24/26	Size 26/28
SPIDER TYPE			
Spider "Lima" - top 3 petals purple			
Spider "La Paz" - red/green			
Spider "Bogota" - dark purple red			

TRUMPET TYPE			
Trumpet "Estella" - purple with light green			
Trumpet "Amputo" - pure white trumpet <i>NEW</i>			

DIAMOND TYPE (small flowering)			
Diamond "Amoretta" - white/rosy pink			
Diamond "Baby Star" - orange/white star			
Diamond "Charisma" - scarled red with white <i>NEW</i>			
Diamond "Donau" - deep pink <i>NEW</i>			
Diamond "Green Goddess" - pure white flowers w/green center			
Diamond "Lemon Star" - yellow/green <i>NEW</i>			

DOUBLE GALAXY TYPE			
Galaxy Double "Jewel" - white - Fragrant			
Galaxy Double "Picotee" - white w/red stripes			
Galaxy Double "Pasadena" - red w/white streaks			
Galaxy Double "Lady Jane" - apricot rose brushed with white <i>NEW</i>			

TRIPLE GALAXY TYPE			
Triple Galaxy "Red Nymph" - red			
Triple Galaxy "White Nymph" - white			
Triple Galaxy "Pink Nymph" - pink			
Triple Galaxy "Aphrodite" - blush pink <i>NEW</i>			
Triple Galaxy "Dancing Queen" - red and white stripes <i>NEW</i>			

Butterfly "Papillio" - white, touched w/pale green, maroon markings from throat in striped pattern			
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CROCUS FOR FORCING/LANDSCAPING

Plant outdoors with the soil 4" above the bulb nose. Use well drained, composted soil and space 3" apart. Crocus flower early in the season - March to April. Some crocus varieties are fall flowering, usually blooming late September or early October. Crocus will flower sparsely the first year, but there will be a bundle of flowers in the following years.

Crocus - Size 9/10 cm. - Height: 4" - 100 Bulbs Per Bag Available Early September		Valentine		Easter	
		Pot	Cut	Pot	Cut
Flower Record	violet-mauve	P	nr	P	nr
Jeanne D'Arc	white with purple base	P	nr	P	nr
Mammoth Yellow	golden yellow	nr	nr	nr	nr
Mixed Colors	assorted colors	nr	nr	nr	nr
Peter Pan	pure white	P	nr	P	nr
Pickwick	lilac, white striped	P	nr	P	nr
Purpurea Grandiflora	violet	P	nr	P	nr
Remembrance	violet-blue	P	nr	P	nr
Striped Beauty	violet, white striped	P	nr	P	nr

Forcing Crocus for Valentine & Easter

Unpack bulbs immediately upon arrival, ventilate if not immediately planted. Store at 58-65 °F - do not store with fresh fruit, vegetables or other ethylene producing products.

Valentine Forcing Methods

1. Plant bulbs immediately upon arrival - which is approximately mid-September - in pots. Place in cooler at 48°F. Bring into greenhouse January 5-10. OR
2. Dry precool bulbs (not planted) at 48°F until mid-October. Plant in pots and continue cooling at 48°F. Bring into greenhouse January 5. OR
3. Obtain "precooled" bulbs. Plant in pots approximately mid-October. Continue cooling at 48°F. Bring into greenhouse January 5.

Easter Forcing Method

After planting in mid-October, keep bulbs at 48°F until the roots grow out of the bottom of the pot. When the roots show, drop the temperature to 41°F. Maintain 41°F until early January at which time, depending on the sprout development, the temperature needs to be lowered to 34°F and held until brought into the greenhouse. If no cooler facility is available, the bulbs can be planted outside under a 6" sand and straw cover. This method is only recommended in the Northern states where outside temperatures make it possible to do this.

Greenhouse Forcing

For Valentine - start in greenhouse January 20-25 - grow at 58-65°F.
For Easter - start in greenhouse 1-2 weeks before Easter - grow at 58-65°F.

Planting Medium/Watering/Fertilizer

Any commercial soil or soil mix can be used as long as it has good drainage and allows for undisturbed root growth. Soil should have a pH of 6-7 and have a low soluble salt level. The following soil mixes have shown the best results: Fafard #2, Fafard #3-B, Farfard #4, Metro 350, Metro 360, Metro 500, Fison Sunshine #4. Plant crocus approximately 1" below soil level. Water every other day. Always make sure that watering is done directly into the pot and not over the crop. Fertilize in the greenhouse only, not in the cooler. Use calcium nitrate at a rate of 2 lbs. Per 100 gallons of water.

DAFFODILS/NARCISSI

Daffodils are hardy bulbs. They are native to Western Europe, the Mediterranean and Western Asia. There is a wide variation in leaf size and shape, flower shapes, plant heights, and the number of flowers produced per bulb. There are daffodils for rock gardens, borders, perennial beds and naturalizing in woods. Use a well drained, composted site. Plant bulbs outdoors so that soil is 4-6" above the bulb nose. Use 40-100 bulbs per square yard - space bulbs about 3-6" apart. Exact spacing and planting depth depends on the bulb size. For indoor forcing, plant bulbs at soil level.

Valentine and Easter Forcing

Availability

Daffodils/narcissi are available early September through mid-December.

"Precooled" daffodils/narcissi are available mid-October through early November.

Storage After Arrival

Unpack bulbs immediately upon arrival - ventilate if not planted immediately. Store at 58-65°F - do not store with fresh fruit, vegetables or other ethylene producing products.

Planting Medium

Any commercial soil or soil mix can be used as long as it has good drainage and allows for undistrubed root growth. Soil pH level should be 6-7 and should have a low soluble salt level. The following soil mixes have shown the best results: Fafard #2, Fafard #3-B, Fafard #4, Metro 350, Metro 360, Metro 500, and Fison Sunshine #4.

Cooling

This is the most important step and can be done according to various methods:

For Valentine

1. Plant bulbs immediately upon arrival (approx. mid-September) in pots or flats. Place in cooler at 48°F. Bring into greenhouse January 5-10.
2. Dry precool bulbs (not planted) at 48⁰F until mid-October in pots or flats and continue cooling at 48°F. Bring into greenhouse January 5.
3. Obtain "precooled" bulbs, plant in pots or flats approximately mid-October and continue cooling at 48°F. Bring into greenhouse January 5.

For Easter

After planting keep bulbs at 48°F until the roots grow out of the bottom of the container. When the roots show, drop the temperature to 41°F. Maintain this temperature until early January at which time, depending on sprout development, the temperature needs to be lowered to 34°F and held until brought into the greenhouse. If no cooler facility is available, the bulbs can be planted outside under a 6" layer of sand and straw cover. This method is only recommended in the Northern states where outside soil temperature is cold enough to make it possible to do this.

Greenhouse Forcing

For Valentine - start in greenhouse January 10, grow at 58-65°F.

For Easter - start in greenhouse 4 weeks before Easter, grow at 58-65°F.

Watering

Water every other day. Always make sure that watering is done directly into the container and over the crop.

Fertilizer

Fertilize in the greenhouse only - not in the cooler. Use calcium nitrate at a rate of 2 lbs per 100 gallons of water.

Height Control

Generally this is not a concern for Valentine forcing, however, for Easter a spray application of Florel or Pistill may be needed to control height. See Holland Bulb Forcers Guide for details and application rates.

DAFFODILS/NARCISSI FOR FORCING/LANDSCAPING

ENGLISH DAFFODILS/NARCISSI

Available Early September

Size 14/16 approx. 450 blooms per bag

Size 16/18 approx. 300 blooms per bag

		Height	Season Bloom Time	For Forcing Size 16/18 125/Bag	For Forcing or Landscape Size 14/16 250/Bag	For Landscape Only - 12/14 250/Bag
Actaea	snow white, yellow cup, edge red	15"	Mid			
Barrett Browning	white with orange-red cup	16"	Very Early			
Carlton	large yellow	14"	Mid-Late			
Dick Wilden	all yellow sport of Carlton	12"	Early			
Double Mixed	mixed colors of double daffs/narc	14-16"	Early-Mid			
Dutch Master	golden yellow	14"	Mid			
Fortune	yellow, orange-red cup	14"	Early			
Geranium	white, deep orange corona, scented	14"	Mid			
Holland Sensation	white, dark yellow trumpet	18"	Mid			
Ice Follies	white w/cream cup	14"	Mid			
King Alfred	deep golden yellow	14"	Early			
Mixed	wide selection of colors	14"	Mid			
Mixed Trumpets	mix of large trumpets	14"	Mid			
Mount Hood	pure white	14"	Mid			
Pink Pride	white petals/goblet shaped cup	14"	Mid			
Professor Einstein	white perianth, scarlet-red corona	14"	Mid			
Salome	ivory white, salmon crown	14"	Mid-Late			
Sempre Avanti	creamy white, lg brt orange corona	14"	Mid			
Sir Winston Churchill	multi-headed, cream white, or specks	14"	Mid			
Tahiti	soft yellow, bright red segments	16"	Mid			
Unsurpassable	greenish yellow/yellow corona	14"	Very Early			
White Lion	double white/primrose yellow segments	16"	Mid			
Yellow Cheerfulness	primrose yellow, scented	14"	Late			

HOLLAND DAFFODILS/NARCISSI

Packed 100 Per Bag - Available Early September

		Height	Size	Bloom Time
Bridal Crown	white, orange - strongly scented	12"	14/16	Early-Mid
Cassata	white, lemon yellow	14"	14/16	Early
February Gold	sulphur yellow, dark yellow trumpet	12"	14/+	Very Early
Hawera	pale yellow, short trumpet, scented	8"	12/+	Late
Jack Snipe	cream white, yellow cup	8"	12/+	Early
Jetfire	yellow, red/orange cup, slightly scented	10"	12/+	Early
Jonquilla Single	multiple yellow flowers	10"	7/+	Mid
Orangery	white, orange midsize collar	14"	14/16	Early-Mid
Tete A Tete	buttercup yellow	6"	12/+	Very Early
Tete A Tete	buttercup yellow	6"	11/+	Very Early
Thalia	pure white, scented	10"	14/+	Late
Trevithian	deep yellow, scented	10"	12/+	Mid
Tete A Tete White	white with cream center - <i>UNUSUAL</i>	6"	10/+	Very Early

CALLA AND FREESIA

Available Early September (Last Ship Date: February 1) - Packed in Bags of 100

Single Flowering Freesia

Argenta	white
Blue Sea	dark blue
Dukaat	yellow
Magdalena	yellow
Mosella	pink
Oberon	orange
Red Sunset	red
Rosa Nova	pink
Saffier (Blue Heaven)	blue
White Lace	white

Forcing Freesia for Pot

Potted freesia are basically experimental, but forcers are encouraged to determine how they will force and market under their conditions. The objective is to produce a marketable plant in 70-90 days from planting with an average total plant height of 10-20". These goals are not always achieved with the cultivars and treatments evaluated. Select principally pot varieties for pot forcing.

On arrival, dip in Paclobutrazol (Bonzi) or Ancymidol (ARest) and plant.

Plant corms 1" deep. Use 4-8 corms per 4" pot; or 6-12 per 6" pot; or 10-20 corms per 8" pot. Use a well drained pH 6.5-7.2, fluoride-free sterilized planting medium.

Freesia require a medium to high light (>2500 ft. candle) intensity greenhouse.

Keep planting medium moist, but not wet.

Use a 50-55°F night temperature greenhouse. Avoid temperatures above 63°F especially during short days of winter. Forcing times range from 55 to 100 days depending on the cultivars.

After plants begin to grow, use 200ppm of 20-20-20 every other week.

Market plants when first floret begins to open. If plants need to be stored, place at 32-35°F but not for a long period.

Double Flowering Freesia

Amulet	white
Bloemfontein	pink
Blue Bayou	blue
Golden Gate (Wave)	yellow
Purple Rain	purple
Rossini	rosy red
Valentino (Marianne)	red

Forcing Freesia for Cut

Freesia are shipped from early September until March.

Upon arrival check if any damages have occurred during transportation. The corms can be stored at 48-55°F for up to three weeks. Thereafter the spike may dry up too much if not planted.

The corms can either be planted in flats or beds. A well drained soil mix is essential. This soil mix should be sterile at planting time with a pH level of 6.5-7.2.

Plant 2" deep and use about 10 corms per square foot. Keep in mind that the bed or trays will need to have wire mesh support facilities.

Freesia should be planted in light intensity greenhouses.

Keep medium moist, but not wet.

Use a cool greenhouse - 50-58°F. Avoid temperatures over 70°F especially during short days of winter.

Generally it takes approximately 120 days from planting to harvest first flowers. Once the flowering begins the span of flowering is usually 4 weeks long.

After plants begin to grow use a liquid fertilizer every other week.

Note: Flower initiation will only occur when temperature after planting is below 65°F. Cool growing temperatures rather than planting time will determine when freesia will bloom.

CALLA AETHIOPICA LARGE WHITE FOR FALL 2011

Size: 1 3/4" - Available 9/13/11 - Packed in 25's - Forcing Time: 10-12 Weeks

Wonderful garden item in warm areas and excellent cut flower. Also, with Bonzi, Aethiopica makes a good winter-to-spring potted plant. Small to medium bulbs should be planted in a 6-8" pot. When plants are not treated with Bonzi or are in established stands, flower stems can reach a height of 30" or more. Great for bogs and borders around ponds.

DUTCH IRIS

Available Starting Mid October

Pretreated Iris

Variety	Height	Color	Size	Packed	Weeks to Force at 55°F
Apollo	18-24"	yellow/white	9/10	100	13-14
Blue Diamond	18-24"	dark blue	10/11	250	11-12
Casa Blanca	18-24"	pure white	9/10	100	12-13
Discovery	18-24"	darkest blue	10/11	250	14-15
Golden Beauty	18-24"	golden yellow	8/9	100	13-14
Purple Sensation	18-24"	purple	8/9	100	14-15
Telstar	18-24"	dark blue	10/11	250	12-13
White Wedgewood	18-24"	white	10/11	100	10-11

SPECIAL NOTE: See Fall 2011/Spring 2012 Shipdates.

Shipdate	Variety	*Approximate Flower Date/Holiday	**Approximate Flower Date/Holiday
Oct 17	White Wedgewood, Blue Diamond	Jan 3	
Oct 24	White Wedgewood, Blue Diamond	Jan 10	
Oct 31	White Wedgewood, Blue Diamond	Jan 17	
Nov 14	All Varieties	Jan 31	Feb 7
Nov 28	All Varieties	Feb 14	Feb 21
Dec 12	All Varieties	Feb 28	Mar 7
Dec 26	All Varieties	Mar 14	Mar 21
Jan 09, 2012	All Varieties	Mar 28	Apr 4
Jan 23	All Varieties	Apr 11	Apr 18
Feb 6	All Varieties	Apr 25	May 2
Feb 20	All Varieties	May 9	May 16
Mar 5	All Varieties	May 23	May 30
Mar 19	All Varieties	May 31	Jun 6

*Approximate Flower Date @ 52-55°F - White Wedgewood, Blue Diamond

**Approximate Flower Date @ 52-55°F Other Varieties

Easter - April 8, 2012

Mother's Day - May 13, 2012

MISCELLANEOUS PERENNIAL BULBS FOR FORCING/LANDSCAPING

Available Starting September

Variety		Color	Size	Height	Packed
Anemone	Blanda Mixed	mixture of colors	5/+	5"	100
Allium	Gladiator	purple - largest allium bloom	20/+	48"	25
Allium	Sphaerocephalon (Drumstick)	dark purple	5/+	24"	100
Allium Aflatunense	Purple Sensation	dark purple - excellent cut flower	12/+	12-18"	50
Muscari	Armeniacum	cobalt blue	9/10	4"	100
Scilla	Siberica Blue	dark blue	8/9	8"	100
Iris, Miniature	Harmony	blue	5/+	6"	100
Iris, Miniature	Danfordiea	yellow	5/+	3"	100
Lycoris	Squamigera (Magic Lily)	rose-lilac	12/14	20"	25
Galanthus	Snowdrops	single white	6/+	4"	100

BEARDED IRIS

BEARDED IRIS, BAREROOT

Packed in Bags of 10 with Pot Tags
 Freshly Dug West Coast Tubers - Size #1
 Available 08/15/2011 - 10/01/2011

Variety	Description
* Beverly Sills	soft Pink
* Champagne Elegance	white Standards w/ apricot buff falls
* Immortality	pure white, lemon yellow beard
* Victoria Falls	light blue, white beard, heavy ruffle
New Introductions	
Yaquina Blue	best of the show, large clear blue iris
Warrior King	velvet rich red iris
Harvest Of Memories	fragrant bright yellow
Outlaw Trail	rich bronze center

* **Rebloomer**

HYACINTHS FOR FORCING/LANDSCAPING

Prepared Hyacinths

Available Early October - For December/Early January Forcing

Packed in Bags of 50

	Height	Color	Size 16/17	Size 17/18	Valentine	Easter
Anna Marie	10"	pale pink			P	P
Aiolus (Carnegie)	10"	white			P	P
Delft Blue	10"	lilac-blue			P	P
Minos (Ostara)	10"	pale purple			P	P

Regular Hyacinths

Available Mid-September

Packed in Bags of 50 (size 17/18)

Packed in Bags of 60 (size 16/17)

	Height	Color	Size 16/17	Size 17/18	Valentine	Easter
Anna Lisa	10"	pale purple			P	P
Atlantic	10"	violet			P	P
Blue Jacket	10"	dark blue			P	P
Blue Pearl	10"	blue			nr	P
Carnegie	10"	white			nr	nr
Delft Blue	10"	lilac-blue			P	P
Fondant	10"	pale pink			P	nr
Gipsy Princess	10"	yellow			P	P
Gipsy Queen	10"	dark salmon			nr	P
Jan Bos	10"	red			P	P
Minos (Ostara)	10"	pale purple			P	P
Pink Pearl	10"	pink			P	P
Pink Surprise	10"	pink			P	P
Splendid Cornelia	10"	light lavender			nr	P
White Pearl	8"	white			P	P
Woodstock	10"	purple-red			P	P

Forcing Hyacinths for Valentine and Easter

Hyacinths are hardy bulbs that are native to Mediterranean countries. The cultivars produce several strap-like leaves and a multi-flowered inflorescence on a leafless stalk. Use well drained, outdoor composted site. Plant bulbs so that soil is 6" above the bulb nose. Use 40 bulbs per square yard - space bulbs about 6" apart. For indoor forcing, plant bulbs at soil level. Hyacinths flower in April with a height of 10".

Unpack bulbs immediately upon arrival - ventilate if not planted immediately. Store at 58-65°F - do not store with fresh fruit, vegetables or other ethylene producing products.

Any commercial soil or soil mix can be used as long as it has good drainage and allows for undisturbed root growth. Soil should have a pH level of 6-7 and have a low soluble salt level. The following soil mixes have shown the best results: Fafard #2, Fafard#3-B, Fafard #4, Metro 350, Metro 360, Metro 500, Fison Sunshine #4.

Cooling is the most important step. The main rule for hyacinths is 12-14 weeks of temperature at or below 48°F.

For Valentine - plant hyacinths in mid-October, cool at 48°F until January 10-15.

For Easter - after planting keep bulbs at 55°F until the roots grow out of the bottom of the pot. When the roots show, drop the temperature to 41°F - maintain this temperature until early January at which time depending on the sprout development, the temperature needs to be lowered to 34°F and held until brought into the greenhouse. If no cooler facility is available the bulbs can be planted outside under a layer of 6" sand and straw cover. This method is only recommended in the Northern states.

Greenhouse Forcing
For Valentine - 3-4 weeks at 65-70°F, bring into the greenhouse January 10-15
For Easter - 4 weeks at 65-70°F

Water every other day. Always make sure that watering is done directly into the pot and not over the crop. Fertilize in the greenhouse only, not in the cooler. Use calcium nitrate at a rate of 2 lbs per 100 gallons of water.

OXALIS

Berbee Oxalis

Holland Grown - Regnelli Types - Available November through April - Packed in Bags of 250

Variety	Size	Foliage/Flowers	Weeks To Flower
Regnelli White	3/4-1" (Large)	3 Shamrock/ white flowers with green foliage	5-7
Regnelli White	1 1/4" (Extra Lge)		
Fanny	Topsize	3 Shamrock/green foliage, pink flowers	5-7
Myke	Topsize	3 Shamrock/dark bronze foliage, pink flowers	5-7
Deppii (Iron Cross)	Topsize	4 Shamrock pink flowers, bronze/green foliage - Precooled Available in January 2012	4-6
Adenophylla Packed in 100	Topsize	Silver foliage, pink flowers Available in September 2011	***

***Must precool 14 weeks at 41°F after planting. After precooling, force 3 weeks at 60-65°F. Grown at customer risk.

West Coast Oxalis

California Grown - Available October through Spring 2012 - Packed in Bags of 100

Regnelli Pink (Triangularis)	Topsize	3 Shamrock, bronze foliage, pink flowers	5-7
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Holland Grown

Oxalis Regnelli is commonly known as "Everblooming Shamrock". The white variety develops three large, sharply cut, green leaves and produces a five-petaled white flower approximately 1" in diameter. Fanny has green foliage with markings on foliage and light pink flowers. Growing characteristics are similar to triangularis. Oxalis are generally grown from November to May but can be forced year-round. Plants are normally ready to market 5-8 weeks after planting. Special summer growing conditions are required.

Before planting, rhizomes can be stored up to 4 weeks at 40-50°F. Be sure to keep them covered so they do not dry out.

Plant 3 rhizomes per 4" pot; 4 rhizomes per 5" pot. Lay the corms (roots) flat and cover with 1/2" of soil medium. Soil pH should be 6.5 and no lower. Fafard #2 and Metro Mix 350 are the best suited soils. Avoid any soil which contains bark. Water the medium thoroughly, then only water the medium when it becomes dry and/or the plants begin to grow vigorously. DO NOT OVERWATER.

In order to assure proper germination, start Regnelli White at 68-75°F - Triangularis & Fanny at 72-78°F. The plants grow well in full sun or light shade at temperatures between 70-75°F. If grown at lower than 65°F or higher than 85°F the plants may suffer. If flowers bloom down in the foliage, the plant has probably been grown with too much shade. Well ventilated conditions must be maintained. Once the plants show vigorous growth the temperature may be lowered to 65°F.

Oxalis are almost disease free, but will attract insects in warmer temperatures. The following product is advised for spiders - Pentac 50 wettable powder - 8 ounces per 100 gallons of water, 2 applications per week for two weeks.

Use a complete NPK fertilizer on a weekly basis once the plants begin to grow vigorously. Either 200 ppm n of 20-20-20 or 14-14-14 Osmocote can be used. If any chlorosis begins to appear in the oldest leaves, use a micronutrient foliage spray.

Other Oxalis - Holland Grown Adenophylla & Deppii

West Coast California Grown Oxalis

Use a well drained pH 6-7 sterilized planting medium. Plant bulbs 1" below the surface of the medium. It can also be used for hanging baskets. If sprouts have developed before planting, pinch them off. Fafard #2 and Metro Mix 350 are best suited soil mixes - avoid any soil that may contain bark. Keep plants moist but not wet. Can be placed pot to pot when grown on benches until leaves start, then space 8" on center.

The leaves and the flowers will grow best in a temperature of 65-70°F. Avoid temperatures above 75°F whenever possible. Use a medium light (2500-5000 ft. candle) intensity greenhouse. Do not expose oxalis Trefoil to long days (night breaks). It can cause significant delays in flowering.

Because oxalis grow fast, they need to have sufficient fertilizer. Either a slow release fertilizer or liquid will keep the plants strong and the foliage dark green. If the foliage is yellowing this could be a nitrogen deficiency problem. Use a well ventilated greenhouse.

Plants are ready to market when foliage is fully expanded. It is not necessary to have flowers present.

Height control - Bonzi drenches proved to be the most effective of all treatments for suppressing plant height in regnelli and triangularis. Sumagic drenches of 0.10 mg/pot were as effective as the Bonzi treatments in reducing the height of regnelli pink. The other concentrations of Sumagic did reduce the height in both varieties, but their effects were not as noticeable as were the Bonzi treatments. It was also determined that A'Rest should not be used on these species due to its cost and inactivity. Oxalis growers can use Bonzi drenches in the range of 0.05 to 0.1 mg/4 1/2" pot to "stop" further growth once a desired height is reached. Early drenching of Bonzi is to be avoided since this would probably cause severe stunting and make the crop unsalable.

Bill Miller, "Production Tips and Height Control Techniques for Oxalis" Greenhouse Product News, 7:8, August, 1997, p.8

PAPERWHITES & LIATRIS

PAPERWHITES

For Pot or Cut Forcing

Ziva, Grand Soleil D'Oro, Inbal and Nir Available September

Galilee Available October

	Size	Price Each in Bulk 100	Price Each in Display 50
Ziva (early white)	14/15	\$0.39	\$0.41
	15/16	\$0.42	\$0.44
	16/17	\$0.47	\$0.49
Ziva - Jumbo	17/18	\$0.52	\$0.54
Galilee (white)	15/16	\$0.42	\$0.44
	16/17	\$0.47	\$0.49
Inbal (less fragrant)	15/16	\$0.42	\$0.44
Nir (super jumbo)	19/20	\$0.65	\$0.67
Gr. Soleil D'Or (yellow)	15/16	\$0.43	\$0.45

Storage Until Planting

Since the bulbs are treated they can only be stored for a few days at 63°F under well ventilated conditions.

Planting/Growing

Use a well drained, pH 6-7 sterilized soil. Plant 3 bulbs in a 5" pot; 4-5 bulbs in a 6" pot; 7-9 bulbs in a 8" pot

Planting/Growing (cont)

Grow plants pot to pot on the bench. Use a medium light (5000 ft. candle) intensity greenhouse. Keep planting medium moist but do not overwater. Use 60-63°F night temperatures. Lower temperatures can be used but the plants will take longer to reach the market stage. Greenhouse should be well ventilated. Fertilization is neither harmful nor is it required for paperwhites in the greenhouse.

Plant Growth Regulators

In order to reduce excessive elongation of the flower stalk and leaves of "Ziva" the plants can be sprayed to run off with 2000 ethephon (Florel) when the shoots are 4-5" long. A 2000 ppm Florel solution is one pint in 2.5 gallons and this treats about 500 6" pots. It is important that the foliage be dry at the time of treatment.

Also, do not wet the foliage for 12 hours after treatment - late afternoon is the best time to spray. This treatment can delay flowering by 2-4 days.

Forcing time 3-6 weeks depending on time of planting

Marketing

Forcers - the plants should be marketed with the shoots 8-10" tall and the flowers are visible. Do not wait until they begin to show color

LIATRIS

CROP 2011 - See page 42 for 2012 crop

Available now until 12/30/11

	Size	100-1000	1100-10000
Spicata Purple	10/11		
	8/10		
	6/8		
Spicata Alba	10/11		
	8/10		
Spicata Kobold	8/10		

Availability - Liatris are dry frozen and shipped weekly on a year-round schedule.

Storage After Arrival - Limit storage to a maximum of 2-3 weeks at 45°F. **DO NOT REFREEZE**

Planting-Soil-Watering-Fertilizer - a porous sandy soil or sandy clay soil is most suitable. Plant year-round with 6 bulbs per square foot at 2-3" deep. Regular watering is essential. After plants emerge a regular liquid fertilizer will help to make a stronger plant.

Forcing Time - Depending on the time of year and temperature, the forcing time can range from 8 weeks to 16 weeks.

Light - indoor growing in the fall and winter should be done in a greenhouse with good light intensity

Forcing Liatris - Preservation in Northern States

Outdoors the corms can stay in the ground and used as a perennial - indoors the corms cannot be preserved

Avg Time of Planting	Avg Time Flower	Avg Plant Ht		Climatic Zone
		In.	Cm.	
May-June	Aug-Oct	20-30	50-70	3 and 4
May-June	Aug-Oct	20-30	50-70	5 and 6
Mar-April	Jul-Aug	20-30	50-70	7 and 8
Sep-Feb	Jan-Jun	20-30	50-70	9 and 10

Depending on time of year & temperatures, flowering time can range from 12 to 24 weeks. Use size 6/8 as annual cut flower or size 8/10 or 10/11 as perennial.

Liatris Tags - 33 Tags per 100

TULIPS FOR FORCING/LANDSCAPING

Cultural Information

These hardy bulbs are native to the Mediterranean countries. Asia Minor across to China. They require an annual thermoperiodic change of a warm summer and cool-moist winter. If these conditions are fulfilled, the bulbs can last for years. They also pr

Forcing Tulips for Valentine and Easter

Storage After Arrival

Bulbs should be unpacked immediately upon arrival, ventilate if not immediately planted. Store at 58-65°F - do not store with fresh fruit, vegetables or other ethylene producing products.

Planting Medium/Planting Procedure

Planting medium can be any commercial soil or soil mix as long as it has good drainage and allows for undisturbed root growth. pH level should be 6-7 and soil should have a low soluble salt level. The following soil mixes have shown the best results: Fafard #2, Fafard #3-B, Fafard #4, Metro 350, Metro 360, Metro 500, Fison Sunshine #4. Plant bulbs with the flat side outside of the container and the top of the bulb should be level with the container rim. Use either clay or plastic pot but make sure good drainage is available. There should be at least 2" of growing medium under the base of the bulb to allow for a good root structure.

Cooling

Cooling is the most important step in successfully growing flower bulbs. The main rule for almost all tulips is 14-16 weeks of cool temperature at or below 48°F. This can be done according to the following methods:

For Valentine:

1st	Plant bulbs immediately upon arrival - approximately mid-September - in pots or flats. Place in cooler at 48°F. Bring into greenhouse January 5-10. OR
2nd	Dry precool bulbs (not planted) at 48°F until mid-October then plant in pots or flats and continue cooling at 48°F. Bring into greenhouse January 5. OR
3rd	Obtain "precooled" bulbs (these have received 6-8 weeks of cooling) plant in pots or flats approximately mid-October continue cooling at 48°F. Bring into greenhouse January 5.

For Easter

After planting, keep bulbs at 48°F until the roots grow out of the bottom of the container. When the roots show, drop the temperature to 41°F. Maintain this temperature until early January - depending on sprout development - the temperature needs to be lowered to 34°F and held until brought into the greenhouse. If no cooler facility is available, the bulbs can be planted outside under a 6" layer of sand and straw. This method is only recommended in the Northern states where outside soil temperature makes it possible to do this.

Greenhouse Forcing	
Valentine	4 weeks at 58-68°F. Bring into greenhouse January 5-10.
Easter	4 weeks at 58-68°F. Bring into greenhouse January 5-10.

Watering/Fertilizer

Water every other day. Always make sure that watering is done directly into the pot and not over the crop. Fertilize in the greenhouse only, not in the cooler. Use calcium nitrate at a rate of 2 lbs. Per 100 gallons of water.

Height Control for Pots

The product ARest (ancymidol) has worked very effectively in controlling the length of the tulips in pots. However, varieties react differently at different times of the year to the same application. It is important that the forcers guide is consulted before using this product.

TULIPS FOR FORCING/LANDSCAPING

All Size 12/+ cm. (unless otherwise noted)

Available Early September - Packed in Bags of 100

Variety	Height	Flower Time	Color	Pot/Cut	A-Rest
EARLY FLOWERING					
Apricot Beauty	18"	early	salmon rose, tinged red - Fragrant	C/P	0.125
Christmas Dream	18"	early	soft pink	C/P	0.125
Christmas Marvel	12"	early	cherry pink	C/P	
Flair <i>NEW</i>	14"	early	red-yellow	P	0.25
Merry Christmas	14"	early	chrysanthemum crimson, edged cardinal red	P	
Princess Irene	16"	mid-late	orange/purple flame	P	
Purple Flag	16"	early	purple	P	0.25
Yohohama	16"	early	golden yellow	P	0.25

DOUBLE EARLY					
Abba	16"	mid	red, broad cardinal red flame - FRAGRANT	C/P	0.25
Monte Carlo	12"	early-mid	sulphur yellow, slightly feathered red - FRAGRANT	C/P	0.25

GREIGII					
Roodkapje (Red R. Hood)	12"	mid	carmine red, inside scarlet, base black	P	

FOSTERIANA					
Golden Emperor	16"	early	pure golden yellow	nr	
Madame Lefebvre (Red Emp)	16"	early	fiery red	nr	
Orange Emperor	16"	early	carrot orange, base pale buttercup yellow	nr	
Pink Emperor	16"	early	pink	nr	
White Emperor	16"	early	white	nr	

DARWIN HYBRID					
Apeldoorn	22"	mid	cherry red, edged signal red	C	
Apeldoorn's Elite	24"	mid-late	scarlet, black base, yellow edge	C	
Golden Apeldoorn	22"	mid	golden yellow	C	
Golden Parade	24"	mid	pale buttercup yellow	C	
Ivory Floradale	24"	mid	ivory yellow, slightly spotted carmine red	C	
Parade	24"	late	signal red, black base, yellow edge	C	
Pink Impression	22"	late	empire rose on pale rose ground	C	
Red Impression	22"	late	red	C	

TRIUMPH					
Annie Schilder	18"	early-mid	flamed empire rose w/broad indian orange edge	P	0.125
Attila	20"	mid-late	light purple violet	C/P	0.25
Bastogne	24"	mid-late	blood red, cardinal red flame	C	0.25
Couleur Cardinal	14"	late	scarlet, outside plum	P	
Furand <i>NEW</i>	16"	mid-late	red-white	P	0.25
Jan Reus	20"	mid-late	chrysanthemum crimson	C	0.125
Jan Van Nes <i>NEW</i>	14"	mid-late	yellow	P	
Jimmy	14"	mid-late	carmine rose, edged lighter, outer base yellow	C/P	
Kees Nelis	18"	mid-late	blood red, edged orange yellow	C/P	0.25
Leen van der Mark	18"	mid-late	cardinal red, edged white to the top	C/P	0.25
Mistress (Peerless Pink)	16"	mid	peerless pink	P	0.25
Negrita	18"	early-mid	purple	C/P	0.25
Orange Cassini	18"	early-mid	signal red, flamed delft rose, outer base yellow	C/P	0.25

TULIPS FOR FORCING/LANDSCAPING

All Size 12/+ cm. (unless otherwise noted)

Available Early September - Packed in Bags of 100

Variety	Height	Flower Time	Color	Pot/Cut	A-Rest
TRIUMPH					
Page Polka	16"	mid	deep red, outer base white	P	0.25
Passionale	20"	late	purple/white edges	P	0.25
Prominence (Ambassador)	20"	late	dark red	P	1.25
Red Present	14"	late	cardinal red, outer base greenish yellow	p	0.25
Silver Dollar	22"	early-mid	flamed primorose yellow on ivory white ground	C/P	0.25
White Dream	20"	mid-late	ivory white, anthers canary yellow	C/P	0.25
Yellow King	18"	early	yellow	P	0.125
Yellow Present	18"	late	canary yellow	P	0.25

SINGLE LATE					
Dordogne	26"	late	claret rose changing into nasturtium red	C	
Halcro (Kings Blood)	28"	late	carmine red, base yellow, edged green	nr	
Maureen	28"	late	marble white	C	
Menton	26"	late	china rose, edged w/light orange stripes	C	0.125
Queen Of Night	24"	late	deep velvety maroon	nr	
Roi Du Midi	24"	late	golden yellow	C/P	

DOUBLE LATE					
Angelique/Foxtrot	18"	mid-late	pale pink with pale and darker shades, lighter edged	C/P	0.25
Upstar	18"	late	ivory white fading to broad flamed roseine purple edge	P	0.25
Wirosa	14"	late	wine red, edged cream	P	

**Promotional Tulips - Size 10/11
Packed in Bags of 100**

Apeldoorn	22"	mid	cherry red, edged signal red	C	
Apricot Impression	22"	mid	orange-apricot	C	
Golden Apeldoorn	22"	mid	golden yellow	C	

***Are you looking for something not on our list? Please call and we will help you find it. We are not limited to this list.

PRECOOLED BULBS FOR VALENTINE FORCING

To successfully grow flowerbulbs for pot or cut, a minimum of 14 weeks of cooling (45 - 48⁰F) is needed.

"PRECOOLED" bulbs have been cooled for six weeks prior to shipping to customer. Upon arrival, customer needs to grow for three additional weeks at 55 - 58° F to initiate the root system. After root initiation, bring temperature down to 41 - 45° F and continue growing for another eight weeks, then bring into greenhouse and force at 65° F for approximately four weeks. Following are "Precooled" bulbs recommended for Valentine forcing:

Prepared Hyacinths - Size 17/18 - Packed in Bags of 50	
Anna Marie	clear pink
Carnegie (Aiolus)	white
Delft Blue	lilac blue
Minos (Ostara)	pale purple

Precooled Tulips - Size 12/+ - Packed in Bags of 100	
Apricot Beauty	salmon rose, tinged red
Attila	light purple violet
Yellow King	yellow
Christmas Marvel	cherry pink
Christmas Dream	soft pink
Silver Dollar	ivory white, anthers yellow
Kees Nelis	blood red, edged orange yellow
Leen V.D. Mark	cardinal red, edged white to top
Monte Carlo	sulphur yellow
Prominence (Ambassador)	dark red

Precooled Crocus - Size 9/10 - Packed in Bags of 100	
Remembrance	violet blue
Striped Beauty	violet, white striped

Precooled Muscari - Size 9/10 - Packed in Bags of 100	
Armeniacum	blue

Precooled Miniature Iris - Size 5/+ - Packed in Bags of 100	
Harmony	blue, fragrant

Precooled Daffodils - Packed in Bags of 100	
Dutch Master 14/16	golden yellow
Ice Follies 14/16	white with cream cup
Tete A Tete 11/+	buttercup yellow

BULBS FOR EASTER FORCING

Use regular bulbs and plant in mid-October. Initiate a root system by keeping temperature at 55 - 58° F for three weeks, then drop temperature to 41 - 45° F until late December and shoots are visible. Once shoots are fully emerged (about 1"), lower temperature to 34° F until 3 1/2 weeks before Easter. Bring into greenhouse and force at 65° F.

Hyacinths - Size 17/18 - Packed in Bags of 50	
Pink Pearl	pink
Blue Jacket	blue
Carnegie	white
Gipsy Queen	orange
Jan Bos	scarlet red
Splendid Cornelia	violet

Tulips - Size 12/+ - Packed in Bags of 100		
Prominence (Ambassador)	dark red	18"
Couleur Cardinal	red	18"
Furand	red-white	18"
Jan Van Nes	yellow	14"
Jan Reus	chrysanthemum crimson	20"
Jimmy	carmine rose, edged orange	14"
Mistress (Peerless Pink)	pink	18"
Negrta	purple	18"
Passionale	purple with lighter edge	20"
Princess Irene	orange/purple flame	12"
Silver Dollar	white	22"
White Dream	ivory, yellow anthers	20"
Yellow Present	canary yellow	18"

Crocus - Size 9/10 - Packed in Bags of 100	
Remembrance	violet

Daffodils - Packed in Bags of 100	
Dutch Master 14/16	golden yellow
Tete A Tete 12/+	buttercup yellow
Ice Follies 14/16	white with cream cup
Salome 14/16	ivory white, salmon crown
Cheerfulness 14/16	white, white/yellow center
Jetfire 12/+	yellow, red-orange cup

Muscari - Size 9/10 - Packed in Bags of 100	
Armeniacum	blue

EASTER - April 8, 2012