

Chantilly Lace

Aruncus hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	Average

Features & Benefits:
This colorful perennial produces fragrant, double coral pink blossoms atop a tight, compact mound of blue-green foliage. Use it to edge sunny borders and pathways.
Attracts butterflies.



Cultural info:		
pH/EC:	5.8-6.5/ 1.5-2.0 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to Full Sun	
Watering:	Average	
Rooting Out Temp:	60-65°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	Not required	
Vernalization:	Recommended 8-10 weeks	
Vigor Rating:	3	
Natural Day Flower:	Natural day length	
Finish Size	Liner/Pot	Weeks to Finish
Premium 1 Gallon	1	10-12 weeks
Premium 2 gallon	3	12-14 weeks

Grower Tips:
<ul style="list-style-type: none"> • Best results come from planting in late summer and vernalizing a finished plant. This also allows easy forcing for early sales. • Treat with preventative broad spectrum fungicidal drench at one week after transplant. Scout crops regularly (at least once a week) for disease development. • After established keep consistently moist. If plants dry out, their foliage turns irreversibly brown and crispy, thereby rendering them unsaleable. • Water well after planting and increase watering as the foliage emerges. • Vernalization is needed for flowering.
NOTES:

DECADENCE® Deluxe Pink Lemonade

Baptisia hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	Average

Features & Benefits:
This colorful perennial produces fragrant, double coral pink blossoms atop a tight, compact mound of blue-green foliage. Use it to edge sunny borders and pathways. Attracts butterflies.

PW
PROVEN
WINNERS®
 The #1 Plant Brand.®

Cultural info:		
pH/EC:	5.8-6.5/ 2.0-3.0 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to Full Sun	
Watering:	Average	
Rooting Out Temp:	55-60°F	
Growing Temp:	55-60°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	Do not pinch vernalized Baptisia	
Vernalization:	Requires 8-10 weeks below 40 degrees F	
Vigor Rating:	2	
Natural Day Flower:	Natural day length	
Finish Size	Liner/Pot	Weeks to Finish
Premium 1 Gallon	1 plug	Plant outdoors mid-summer
Premium 2 Gallon	1 plug	Plant outdoor late spring
Premium 2 Gallon Quick Turn	1 bare root	Late winter to spring 6-8 weeks

Grower Tips:
<ul style="list-style-type: none"> Plant small plugs in early summer (June 1 Midwest) outdoors. Plugs should be planted with the top of plug ½ inch below soil line. Fresh potted plugs will grow like a groundcover until vernalized. Trimming may be necessary to control growth. Bare root is the best choice for quick turn crops in spring. Eyes of bare root should be planted slightly below the soil line. Roots may be trimmed to fit the container. Vernalization is needed for flowering. Drench with paclobutrazol at 12-18 ppm for height control.
NOTES:

Stand by Me

Clematis hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	Average

Features & Benefits:
This colorful perennial produces fragrant, double coral pink blossoms atop a tight, compact mound of blue-green foliage. Use it to edge sunny borders and pathways. Attracts butterflies.



Cultural info:		
pH/EC:	6.0-6.5/ 1.5-2.0 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to Full Sun	
Watering:	Average	
Rooting Out Temp:	50-55°F	
Growing Temp:	50-55°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	Not required	
Vernalization:	Required 8-10 weeks	
Vigor Rating:	3	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Trade 1 Gallon	1	6-7
Premium 1 Gallon	1	7-8

Grower Tips:
<ul style="list-style-type: none"> • Available as bare root. • Plant in late winter to spring. • Clematis are best grown under cool temperatures to promote root growth. • This is a bush type clematis and requires support from the sides such as a small plant ring. Trellises do not work as well with this clematis.
NOTES:

FRUIT PUNCH® Classic Coral

Dianthus hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	Average

Features & Benefits:
This colorful perennial produces fragrant, double coral pink blossoms atop a tight, compact mound of blue-green foliage. Use it to edge sunny borders and pathways.
Attracts butterflies.

PW
PROVEN WINNERS®
 The #1 Plant Brand.®

Cultural info:		
pH/EC:	5.5-5.8/ 1.5-2.5 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to Full Sun	
Watering:	Average	
Rooting Out Temp:	55-60°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	Beneficial	
Vernalization:	Beneficial	
Vigor Rating:	2	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	5-6
Trade 1 Gallon	1	6-8
Premium 1 Gallon	1	8-10

Grower Tips:
<ul style="list-style-type: none"> • Best in landscapes, can be used in containers. • The Fruit Punch® series all share the following traits: fully double or semi-double fragrant flowers, with good heat and humidity tolerance. • It is best to plant small plugs in mid to late summer. The results will be a much fuller plant in spring with better flower performance. • Grow under high light. Long days will enhance growth. • When the pH is higher than 6.2 there is a much greater chance of iron deficiency. • Sensitive to high salt levels. Keep foliage dry going into afternoon and evening hours. • Will flower approximately 8 weeks after being warmed to 60 degrees. • Treat with preventative broad spectrum fungicidal drench at one week after transplant. Scout crops regularly (at least once a week) for disease development. • Vernalization is needed for flowering and is beneficial for bulking.
NOTES:

FRUIT PUNCH® Cherry Vanilla

Dianthus hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	

Features & Benefits:
This colorful perennial produces large, double, raspberry pink flowers with razor thin white edges atop a polished, upright mound of blue-green foliage. Attracts butterflies.



Cultural info:		
pH/EC:	5.5-5.8/ 1.5-2.5 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to Full Sun	
Watering:	Average	
Rooting Out Temp:	55-60°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	Beneficial	
Vernalization:	Beneficial	
Vigor Rating:	2	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	5-6
Trade 1 Gallon	1	6-8
Premium 1 Gallon	1	8-10

Grower Tips:
<ul style="list-style-type: none"> • Best in landscapes, can be used in containers. • The Fruit Punch® series all share the following traits: fully double or semi-double fragrant flowers, with good heat and humidity tolerance. • It is best to plant small plugs in mid to late summer. The results will be a much fuller plant in spring with better flower performance. • Grow under high light. Long days will enhance growth. • When the pH is higher than 6.2 there is a much greater chance of iron deficiency. • Sensitive to high salt levels. Keep foliage dry going into afternoon and evening hours. • Will flower approximately 8 weeks after being warmed to 60 degrees. • Treat with preventative broad spectrum fungicidal drench at one week after transplant. Scout crops regularly (at least once a week) for disease development. • Vernalization is needed for flowering and is beneficial for bulking.
NOTES:

FRUIT PUNCH® Raspberry Ruffles

Dianthus hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	

Features & Benefits:
This colorful perennial produces large, double, raspberry pink flowers with razor thin white edges atop a polished, upright mound of blue-green foliage. Attracts butterflies.



Cultural info:		
pH/EC:	5.5-5.8/ 1.5-2.5 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to Full Sun	
Watering:	Average	
Rooting Out Temp:	55-60°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	Beneficial	
Vernalization:	Beneficial	
Vigor Rating:	2	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	5-6
Trade 1 Gallon	1	6-8
Premium 1 Gallon	1	8-10

Grower Tips:
<ul style="list-style-type: none"> • Best in landscapes, can be used in containers. • The Fruit Punch® series all share the following traits: fully double or semi-double fragrant flowers, with good heat and humidity tolerance. • It is best to plant small plugs in mid to late summer. The results will be a much fuller plant in spring with better flower performance. • Grow under high light. Long days will enhance growth. • When the pH is higher than 6.2 there is a much greater chance of iron deficiency. • Sensitive to high salt levels. Keep foliage dry going into afternoon and evening hours. • Will flower approximately 8 weeks after being warmed to 60 degrees. • Treat with preventative broad spectrum fungicidal drench at one week after transplant. Scout crops regularly (at least once a week) for disease development. • Vernalization is needed for flowering and is beneficial for bulking.
NOTES:

LAKOTA[®] Santa Fe

Echinacea hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	

Features & Benefits:
This colorful perennial produces large, double, raspberry pink flowers with razor thin white edges atop a polished, upright mound of blue-green foliage. Attracts butterflies.

PW
PROVEN
WINNERS[®]
 The #1 Plant Brand.[®]

Cultural info:		
pH/EC:	5.5-6.5/ 1.5-2.5	
Fertilization:	75-150ppm	
Light Level:	Full Sun	
Watering:	Average	
Rooting Out Temp:	65-70 °F days/50-60 °F nights	
Growing Temp:	65-70 °F days/50-60 °F nights	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	Not required	
Vernalization:	Beneficial	
Vigor Rating:	2	
Natural Day Flower:	Intermediate day (13-14 hours)	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	5-6
Trade 1 Gallon	1	7-9
Premium 1 Gallon	1	9-11

Grower Tips:
<ul style="list-style-type: none"> • Best in landscapes, can be used in containers. • Aphids and whiteflies can occasionally be problematic. • Most common diseases for echinacea are aster yellows, botrytis, fusarium crown and root rot, powdery mildew, and pythium. • Drench with a fungicide after transplant
NOTES:

Tuscan Gold

Heliopsis hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	

Features & Benefits:
This colorful perennial produces large, double, raspberry pink flowers with razor thin white edges atop a polished, upright mound of blue-green foliage. Attracts butterflies.

PW
PROVEN
WINNERS®
 The #1 Plant Brand.®

Cultural info:		
pH/EC:	5.8-6.4/ 2.0-3.0	
Fertilization:	100-150ppm	
Light Level:	Part to Full Sun	
Watering:	Moderate	
Rooting Out Temp:	68-75°F	
Growing Temp:	68-75°F	
Holding Temp:	60-70°F	
Sales Window:	Spring, Summer	
Pinching:	Beneficial	
Vernalization:	Not required	
Vigor Rating:	3	
Natural Day Flower:	Long Days for blooming and growth	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	5-6
Trade 1 Gallon	1	8-10
Premium 1 Gallon	1	8-10

Grower Tips:
<ul style="list-style-type: none"> • Best in landscapes, can be used in containers. • Small plugs are best potted in late summer for bulking purposes. • Bare root is a good option for quick turn spring planted crops. • Avoid planting too early due to heat and long day requirement unless supplemental lighting is provided. • Multiple pinches may be required to increase lateral branching on plants from plugs. • Aphids, thrips, and spider mites are most common insects found on Heliopsis. • Powdery Mildew can be problematic if grown under the wrong conditions. • To control growth apply uniconazole at 5 ppm after pinching.
NOTES:

RAINBOW RHYTHM® Orange Smoothie

Hemerocallis hybrid



Landscape Info:	
USDA zone:	3-9
Mature height:	20-24"
Exposure:	Part to Full Sun
Irrigation:	Average

Features & Benefits:
Orange mango petals with a light rose band are borne on strong, well-branched, heavily budded scapes. Flowers appear in midsummer and again later in the season. Attracts butterflies, and hummingbirds.

PW
PROVEN
WINNERS®
 The #1 Plant Brand.®

Cultural info:		
pH/EC:	6.0-6.5/ 2.0-3.0 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to Full Sun	
Watering:	Average	
Rooting Out Temp:	55-60°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	NA	
Vernalization:	Beneficial	
Vigor Rating:	3	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Trade 1 Gallon	1	8-10 weeks (Grade 2 bare root)
Premium 1 Gallon	1	7-9 weeks (Grade 1 bare root)
Premium 2 Gallon	1	Plant grade 1 bare root mid-summer one year prior to sales

Grower Tips:
<ul style="list-style-type: none"> • Best used in landscapes. • Daylilies are best finished cool to tone plants and increase quality. • 2 gallon daylilies should be bulked one year for sales the next season. • Keep temperatures above freezing when over-wintering in containers. • Do not bury the crown of daylilies with more than 1 inch of growing mix. • High light levels bring on flowering more so than day length. Flowers best under long days with high light intensities. • Pinching and growth regulators are not necessary. Cool growing temperatures and high light should produce nicely toned plants. • For best results it is recommended to plant Hemerocallis in mid to late summer. This allows time for the plant to bulk up before winter and yields a fuller plant in spring with more flowers. This also allows for easy spring forcing if early season sales.
NOTES:

RAINBOW RHYTHM® Storm Shelter

Hemerocallis hybrid



Landscape Info:	
USDA zone:	3-9
Mature height:	20-24"
Exposure:	Part to Full Sun
Irrigation:	Average

Features & Benefits:
<p>Mauve colored blossoms with an enormous deep eggplant purple eye that extends to nearly the edge of the petals. Picrust edges with a wide, eggplant picotee margin.</p> <p>Flowers appear in midsummer and again later in the season.</p> <p>Attracts butterflies, and hummingbirds.</p>



Cultural info:		
pH/EC:	6.0-6.5/ 2.0-3.0 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to Full Sun	
Watering:	Average	
Rooting Out Temp:	55-60°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	NA	
Vernalization:	Beneficial	
Vigor Rating:	3	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Trade 1 Gallon	1	8-10 weeks (Grade 2 bare root)
Premium 1 Gallon	1	7-9 weeks (Grade 1 bare root)
Premium 2 Gallon	1	Plant grade 1 bare root mid-summer one year prior to sales

Grower Tips:
<ul style="list-style-type: none"> • Best used in landscapes. • Daylilies are best finished cool to tone plants and increase quality. • 2 gallon daylilies should be bulked one year for sales the next season. • Keep temperatures above freezing when over-wintering in containers. • Do not bury the crown of daylilies with more than 1 inch of growing mix. • High light levels bring on flowering more so than day length. Flowers best under long days with high light intensities. • Pinching and growth regulators are not necessary. Cool growing temperatures and high light should produce nicely toned plants. • For best results it is recommended to plant Hemerocallis in mid to late summer. This allows time for the plant to bulk up before winter and yields a fuller plant in spring with more flowers. This also allows for easy spring forcing if early season sales. <p>NOTES:</p>

PRIMO™ Wild Rose

Heuchera hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	8-10"
Exposure:	Part to full Shade
Irrigation:	Average

Features & Benefits:
Forms a dense habit of large, bright rosy purple leaves with prominent deep charcoal gray veining. Upright, dark burgundy stems hold rosy pink flowers.
Attracts butterflies, and hummingbirds.



Cultural info:		
pH/EC:	6.0-6.5/ 1.5-2.5 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to full Shade	
Watering:	Average	
Rooting Out Temp:	55-60°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer, Fall, Winter	
Pinching:	Not required	
Vernalization:	Not required	
Vigor Rating:	2	
Natural Day Flower:	NA	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	5-6
Trade 1 Gallon	1	6-8
Premium 1 Gallon	1	8-10

Grower Tips:
<ul style="list-style-type: none"> • For best foliage coloration, avoid scorching light. Very high light can scorch foliage. • Light shade is essential for optimal growth. • To reduce or avoid bacterial leaf spotting use a copper based spray bi-monthly. • Finished spring plants can be moved outside to take advantage of cool temperatures for holding purposes and to allow cooler temperatures to deepend foliage color.
NOTES:

FUN AND GAMES® Eye Spy

Heucherella hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	8-10"
Exposure:	Part to full Shade
Irrigation:	Average

Features & Benefits:
This easy-to-grow perennial is prized for its attractive foliage and its bubblegum pink flowers that bloom for many weeks. Amber yellow spring foliage has deep rose centers and mellow to chartreuse green with a silver overlay.



Cultural info:		
pH/EC:	6.0-6.5/ 1.5-2.5 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to full Shade	
Watering:	Average	
Rooting Out Temp:	55-60°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer, Fall	
Pinching:	Not required	
Vernalization:	Not required	
Vigor Rating:	3	
Natural Day Flower:	Day Neutral	
Finish Size	Liner/Pot	Weeks to Finish
Quarts	1	5-6
Trade 1 Gallon	1	6-8
Premium 1 Gallon	1	8-10

Grower Tips:
<ul style="list-style-type: none"> • For best foliage coloration, avoid scorching light. Very high light can scorch foliage. • Light shade is essential for optimal growth. • To reduce or avoid bacterial leaf spotting use a copper based spray bi-monthly. • Finished spring plants can be moved outside to take advantage of cool temperatures for holding purposes and to allow cooler temperatures to deepend foliage color. • Plant in late summer for fantastic blooming plants for early spring sales.
NOTES:

SUMMERIFIC® Cherry Choco Latte

Hibiscus hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	48-"
Exposure:	Part to Full Sun
Irrigation:	Average

Features & Benefits:
A perfect late summer perennial! Very large 8-9" flowers are white with deep pink veining and a notably large eye. Attractive dark olive green foliage forms a compact airy clump.



Cultural info:		
pH/EC:	5.8-6.2/ 2.5-3.5 pour through method	
Fertilization:	150-200ppm	
Light Level:	Full Sun	
Watering:	Average to moist	
Rooting Out Temp:	68-75°F	
Growing Temp:	68-75°F	
Holding Temp:	60-70°F	
Sales Window:	Late Spring, Summer	
Pinching:	Beneficial	
Vernalization:	Not required	
Vigor Rating:	3	
Natural Day Flower:	Long days required	
Finish Size	Liner/Pot	Weeks to Finish
Premium 1 Gallon	1	Plug 10-12 weeks
Premium 2 Gallon	1	Bare root 10-12 weeks
Premium 3 Gallon	1	Bare root 12-14 weeks

Grower Tips:
<ul style="list-style-type: none"> • Bare root is the best option to produce full 2 and 3 gallon containers. • Plant bare root outdoors in direct sunlight for best results once the threat of frost has passed. • Plugs are best planted in a warm greenhouse due to the young tender growth that may be sensitive to the cold. • Pinch plants once they form 3-5 nodes. This helps improve the branching and overall habit. • 7 days after pinching, apply a PGR such as uniconazole as a drench at 1-2 ppm or as a spray at 5-8 ppm. • Hibiscus are heavy feeders and should be feed a high rate of CRF or 150 – 200 ppm N at each watering.
NOTES:

SHADOWLAND® Waterslide

Hosta hybrid



Landscape Info:	
USDA zone:	3-9
Mature height:	14-15"
Exposure:	Part to full Shade
Irrigation:	Average

Features & Benefits:
This beautifully ruffled hosta is a thrill to behold! Blue, rippled leaves hold their color all season long. Lavender flowers appear on proportionate flower scapes. Hummingbirds



Cultural info:		
pH/EC:	5.8-6.5/ 1.5-2.0 pour through method	
Fertilization:	50-75 ppm	
Light Level:	Part to full Shade	
Watering:	Average	
Rooting Out Temp:	55-60°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	No	
Vernalization:	Beneficial	
Vigor Rating:	3	
Natural Day Flower:	Long Days for peak blooming and growth	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	7-8
Trade 1 Gallon	1	8-10
Premium 1 Gallon	1	10-12
2-3 Gallon	1	16-18

Grower Tips:
<ul style="list-style-type: none"> The top of the liner should be planted 1/4 of an inch below the soil level. The liner must be covered by soil or water management becomes problematic. Most Hosta will work with 1 gallon or smaller containers. Larger than one-gallon container sizes will generally require bulking one year and sales the next year. Hosta vary greatly in size and vigor and you should be sure to choose appropriately for your target finish market and container size. If you are targeting 2 gallon or larger size, Empress Wu, Hudson Bay and Seducer will be the best choices. A minimum of 30% shade should be provided in the late spring and throughout summer. Vernalization requirements vary somewhat for each variety, however, in general 40 to 45 degrees or less ADT for 8 to 12 weeks is sufficient. True leaf characteristics are expressed only with vernalization. Hosta being grown and/or bulked up when the days are naturally short (prior to April 15 or after August 15) should be grown under long days using photoperiodic lighting to keep them actively growing. Night interruption lighting will work NOTES: For best results we recommend potting Hosta in late spring to bulk for the following season.

Totem Pole

Panicum virgatum



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	

Features & Benefits:
This colorful perennial produces large, double, raspberry pink flowers with razor thin white edges atop a polished, upright mound of blue-green foliage. Attracts butterflies.

PW
PROVEN
WINNERS®
 The #1 Plant Brand.®

Cultural info:		
pH/EC:	5.8-6.3/ 2.0-3.0 pour through method	
Fertilization:	150-200 ppm	
Light Level:	Full Sun	
Watering:	Moderate	
Rooting Out Temp:	68-75°F	
Growing Temp:	68-75°F	
Holding Temp:	50-60°F	
Sales Window:	Spring, Summer	
Pinching:	Light shearing promotes fuller growth	
Vernalization:	Required for flowers	
Vigor Rating:	2	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Trade 1 Gallon	1	12-14
Premium 1 Gallon	1	14-16
2-3 Gallon	1	Shift 1 Gallon up in summer

Grower Tips:
<ul style="list-style-type: none"> • Best in landscapes, can be used in containers. • Plant in early summer as plants require high light levels and heat to bulk. Plants can be sold the following spring. • Vernalization is needed for flowering and is beneficial for bulking. • Although not problematic keep an eye out for crown rot, leaf spots, and rust. • No pinching or growth regulators necessary if grown outdoors. If growing in a greenhouse, plants can be trimmed during production to increase fullness and decrease height, but no more than 1/2 way (height) back. • 8-12 weeks of cold is required for flowers.
NOTES:

Midnight Masquerade

Penstemon hybrid



Landscape Info:	
USDA zone:	3-8
Mature height:	28-34"
Exposure:	Sun
Irrigation:	Average

Features & Benefits:
Hummingbirds



Cultural info:		
pH/EC:	5.8-6.5/ 1.5-2.5 pour through method	
Fertilization:	100-150ppm	
Light Level:	Sun	
Watering:	Average	
Rooting Out Temp:	60-65°F	
Growing Temp:	55-65°F	
Holding Temp:	50-60°F	
Sales Window:	Spring, Summer	
Pinching:	Not required	
Vernalization:	Required	
Vigor Rating:	3	
Natural Day Flower:	Natural day lengths	
Finish Size	Liner/Pot	Weeks to Finish
Trade 1 Gallon	1	8-10 weeks (spring plug)
Premium 1 Gallon	1	6-8 weeks bare root
Premium 2 Gallon	1	10-12 bare root

Grower Tips:
<ul style="list-style-type: none"> • Plant small plugs in late summer for bulking purposes. Bare root is best for quick turn spring crops or larger containers such as 2-3 gallon. • Plant crown even with soil line. • Aphids, thrips, and spider mites can be found on Penstemon. Crown and root rots can be problematic if grown under improper conditions. A fungicide drench is recommended after planting bare root. • High light levels produce the best looking plants. Direct sunlight outdoors is best for achieving the proper foliage color. Flowers under natural daylengths. • If height control is needed, apply B-nine at 2500 ppm or Bonzi at 5-10 ppm
NOTES:

Cloudburst

Phlox hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	

Features & Benefits:
This colorful perennial produces large, double, raspberry pink flowers with razor thin white edges atop a polished, upright mound of blue-green foliage. Attracts butterflies.



Cultural info:		
pH/EC:	5.8-6.5/ 2.0-3.0 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part to Full Sun	
Watering:	Moderate	
Rooting Out Temp:	65-70°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	Beneficial	
Vernalization:	Beneficial	
Vigor Rating:	2	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	6-8 weeks (plug)
Trade 1 Gallon	1	6-8 weeks (bare root)
Premium 1 Gallon	1	7-9 weeks (bare root)

Grower Tips:
<ul style="list-style-type: none"> • Best in landscapes, can be used in containers. • It is best to plant small plugs in mid to late summer. The results will be a much fuller plant in spring with better flower performance. • Grow under high light. Long days will enhance growth. • Treat with preventative broad spectrum fungicidal drench at one week after transplant. Scout crops regularly. • Watch for aphids, spider mites and whiteflies; scout and treat as needed. Good air circulation, high light levels and watering in the morning will help decrease disease incidence. • Vernalization will increase plant vigor, decrease time to flower and improve uniformity of flowering. Provide 7-9 weeks of cold. • Bare root planted in spring results in the fullest looking plants without the added labor of pinching.
NOTES:

COLOR SPIRES® Azure Snow

Salvia hybrid



Landscape Info:	
USDA zone:	3-8
Mature height:	18-20"
Exposure:	Sun
Irrigation:	Average

Features & Benefits:
This colorful perennial produces deep violet blue and white bicolor flower spikes atop the neatly mounded, aromatic foliage. Lovely when planted in drifts. Attracts butterflies and hummingbirds.



Cultural info:		
pH/EC:	5.8-6.2/ 2.0-3.0 pour through method	
Fertilization:	50-75 ppm at each watering	
Light Level:	Sun	
Watering:	Average	
Rooting Out Temp:	55-65°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	Beneficial	
Vernalization:	Beneficial	
Vigor Rating:	3	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	5-6
Trade 1 Gallon	1	8-10
Premium 1 Gallon	1	6-8 weeks (bare root)

Grower Tips:
<ul style="list-style-type: none"> Plant small plugs in late summer for spring sales. Bare root is the best option for a quick turn spring crop. Pests & Diseases: Aphids, Thrips, and Spider mites. Watch for crown and root rot if grown too wet. It is beneficial to pinch plants from plugs to increase lateral branching. For height control use B-Nine at 2500 ppm 2-3 times at weekly intervals.
NOTES:

ROCK 'N GROW® Superstar

Sedum hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	

Features & Benefits:
This colorful perennial produces large, double, raspberry pink flowers with razor thin white edges atop a polished, upright mound of blue-green foliage. Attracts butterflies.

PW
PROVEN
WINNERS®
 The #1 Plant Brand.®

Cultural info:		
pH/EC:	5.8-6.5/ 2.0-3.5 pour through method	
Fertilization:	100-200ppm	
Light Level:	Full Sun	
Watering:	Moderate	
Rooting Out Temp:	70-75°F	
Growing Temp:	55-65°F	
Holding Temp:	50-60°F	
Sales Window:	Spring, Summer	
Pinching:	Beneficial	
Vernalization:	Beneficial	
Vigor Rating:	2	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	6-8 weeks (plug)
Trade 1 Gallon	1	6-8 weeks (bare root)
Premium 1 Gallon	1	7-9 weeks (bare root)

Grower Tips:
<ul style="list-style-type: none"> • Best in landscapes, can be used in containers. • It is best to plant small plugs in mid to late summer. The results will be a much fuller plant in spring with better flower performance. • Grow under high light. Long days will enhance growth. • Preventive fungicides recommended at transplant time. Mildew can be problematic, treat as needed. • Avoid overwatering; extended periods of wet soil will be detrimental. • One soft pinch, 1 week after planting. Second pinch optional. Florel® at 500 ppm is also effective at increasing branching. B-9 / Cycocel tank mix will control growth; however, growing plants dry will also control growth. Larger plants with better branching and form will occur with vernalization. • Requires high light in production; in a very high light environment, such as Southern California, plants may need up to 30% shade to protect against sun scorch. • Sedums require long days to flower. Once buds form plants can be moved to a short day environment.
NOTES:

ROCK 'N GROW® Popstar

Sedum hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	

Features & Benefits:
This colorful perennial produces large, double, raspberry pink flowers with razor thin white edges atop a polished, upright mound of blue-green foliage. Attracts butterflies.

PW
PROVEN
WINNERS®
 The #1 Plant Brand.®

Cultural info:		
pH/EC:	5.8-6.5/ 2.0-3.5 pour through method	
Fertilization:	100-200ppm	
Light Level:	Full Sun	
Watering:	Moderate	
Rooting Out Temp:	70-75°F	
Growing Temp:	55-65°F	
Holding Temp:	50-60°F	
Sales Window:	Spring, Summer	
Pinching:	Beneficial	
Vernalization:	Beneficial	
Vigor Rating:	2	
Natural Day Flower:	Long Days for peak blooming	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	6-8 weeks (plug)
Trade 1 Gallon	1	6-8 weeks (bare root)
Premium 1 Gallon	1	7-9 weeks (bare root)

Grower Tips:
<ul style="list-style-type: none"> • Best in landscapes, can be used in containers. • It is best to plant small plugs in mid to late summer. The results will be a much fuller plant in spring with better flower performance. • Grow under high light. Long days will enhance growth. • Preventive fungicides recommended at transplant time. Mildew can be problematic, treat as needed. • Avoid overwatering; extended periods of wet soil will be detrimental. • One soft pinch, 1 week after planting. Second pinch optional. Florel® at 500 ppm is also effective at increasing branching. B-9 / Cycocel tank mix will control growth; however, growing plants dry will also control growth. Larger plants with better branching and form will occur with vernalization. • Requires high light in production; in a very high light environment, such as Southern California, plants may need up to 30% shade to protect against sun scorch. • Sedums require long days to flower. Once buds form plants can be moved to a short day environment.

Cutting Edge

Tiareella hybrid



Landscape Info:	
USDA zone:	4-9
Mature height:	10-12"
Exposure:	Part to Full Sun
Irrigation:	

Features & Benefits:
This colorful perennial produces large, double, raspberry pink flowers with razor thin white edges atop a polished, upright mound of blue-green foliage. Attracts butterflies.



Cultural info:		
pH/EC:	5.5-6.5/ 1.5-2.0 pour through method	
Fertilization:	100-150ppm	
Light Level:	Part sun to shade	
Watering:	Moderate	
Rooting Out Temp:	55-65°F	
Growing Temp:	55-65°F	
Holding Temp:	40-50°F	
Sales Window:	Spring, Summer	
Pinching:	Not required	
Vernalization:	Beneficial	
Vigor Rating:	3	
Natural Day Flower:	Natural day	
Finish Size	Liner/Pot	Weeks to Finish
Quart	1	5-6
Trade 1 Gallon	1	7-9
Premium 1 Gallon	1	8-10

Grower Tips:
<ul style="list-style-type: none"> • If a heavy flowering plant is desired in the spring it is best to plant in late summer and allow plants to go dormant for the winter months. • Tiarellas are light to moderate feeders, requiring only modest fertility levels. Fertilize at a rate of 75-100ppm. Reduce this rate to 50 ppm or zero after flowering. • Root and crown rots, caused by the pathogens Phytophthora, Pythium and Rhizoctonia are sometimes a problem. Tiarellas are most susceptible to these pathogens when they are over-watered or when grown under cool conditions, such as going into or coming out of winter dormancy. Botrytis is another disease that could be problematic. Supply adequate circulation to avoid this disease. Powdery mildew and rusts are also sometimes an issue. • Grow them in a 55% shade in the north and a 80% shade in the south.
NOTES: