

Pansy (Spreading) Cool Wave® F₁ Series

Annuals Culture (revised 02/22/19)

(*Viola x wittrockiana*)

Twice the spread...double the colour!

Wow 'em with Cool Wave – hands down, it's the *fastest-growing, longest-lasting, truly trailing pansy* for Spring and Autumn. One trip to the garden centre for lush baskets or pots for in-ground planting is enough to convince anyone that Cool Wave is a cool-season gardener's dream.

Plug crop time: 4 to 5 weeks

Transplant to finish: Spring 6 to 7 weeks, Autumn 4 to 5 weeks

- The best-performing spreading pansy series delivers *easy spreading colour* for Spring and Autumn, so you can extend your growing and selling season for the popular Wave® Brand.
- More vigorous with the most prostrate habit of any spreading pansy – great in combos and as groundcover.
- Superior overwintering hardiness – Cool Wave is the earliest pansy to return in the Spring.

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Early Spring, Spring, Late Spring, Late Summer, Autumn, Winter	6-8 in. (15-20 cm)	24-30 in. (61-76 cm)	10-12 in. (25-30 cm)

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
PRM	288	1	4-5	2-3	5.5-5.8 pH 0.75 mmhos/cm	Yes

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3-4	Level 3-4	Level 2-4
Temperature	65-70°F (18-21°C)	65-70°F (18-21°C)	65-70°F (18-21°C)	60-65°F (16-18°C)
Light	Optional	2,500 f.c. (26,900 Lux)	2,500 f.c. (26,900 Lux)	5,000 f.c. (53,800 Lux)
Fertilizer		Less than 100 ppm N - Less than 0.7 EC	100 to 175 ppm N - 0.7 to 1.2 EC	100 to 175 ppm N - 0.7 to 1.2 EC
PGR		daminozide/1,500-2,500 ppm/Spray daminozide/chlormequat chloride tank mix/1,500/250-2,500/500 ppm/Spray		daminozide/1,500-2,500 ppm/Spray daminozide/chlormequat chloride tank mix/1,500/250-2,500/500 ppm/Spray

Propagation Key Tips

Adjust PGR rates and frequency of application depending on local conditions in Stages 3 and 4. Cool Wave varieties do not respond uniformly to ancymidol in plug production, so its use is not recommended. Using 105/128 plugs promotes stronger lateral growth and quicker finish. If using a 288, transplant a younger, actively growing plug that is not rootbound.

Growing on to Finish

Growing on Temperature	Target Media pH/EC	Fertilizer	Daylength
(day) 62-70°F (17-21°C) (night) 55-60°F (13-16°C)	5.5-5.8 pH 1.2-1.5 mmhos/cm	175 to 225 ppm N - 1.2 to 1.5 EC	Facultative Long Day

Crop Scheduling

Container Size	Plugs/Pot	Crop Time	Season	PGR
5"/6"/1 Gallon	1-3 (ppp)	6-7 (weeks)	Early Spring	daminozide/chlormequat chloride tank mix 2,500/250 ppm Spray
10" Pot or HB/3 Gallon	4 (ppp)	9-10 (weeks)	Early Spring	daminozide/chlormequat chloride tank mix 2,500/250 ppm Spray
5"/6"/1 Gallon	1-3 (ppp)	5-6 (weeks)	Autumn	daminozide/chlormequat chloride tank mix 5,000/500 ppm Spray
10" Pot or HB/3 Gallon	4 (ppp)	7-8 (weeks)	Autumn	daminozide/chlormequat chloride tank mix 5,000/500 ppm Spray

Common Problems

Insects: Fungus Gnats and Shore Flies in plug stage and Aphids in early stages after transplant. Disease: Damping off, Black Root Rot, Foliar Leaf Spots, Botrytis

Finishing Key Tips

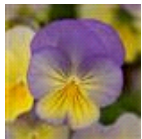
In heat of Autumn production, a paclobutrazol drench of 0.1 to 0.125 can be used once foliage is covering soil. Consult Cool Wave Production Handbook for more detailed information on scheduling for Autumn and Spring programs and variety-specific PGR information.

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

Variety Pictures



Blue Skies



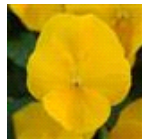
Blueberry Swirl



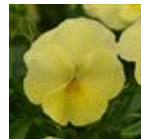
Fire



Frost



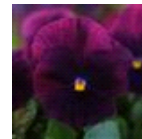
Golden Yellow



Lemon



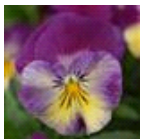
Morpho



Purple



Raspberry



Raspberry Swirl



Strawberry Swirl



Sunshine 'N Wine



Violet Wing



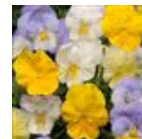
White



Berries 'N Cream Mixture



Mixture



Pastel Mixture

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