

Life cycle	Hardy annual/biennial
Family/origin	Violaceae/Europe and western Asia
Popular uses	Pot and pack, suitable for garden borders and beds, mixed containers
Mature plant height	20-25 cm (8-10")
Mature plant width	20-25 cm (8-10")
Pot size	9-12 cm (3,5-5") pot and packs
Plants per pot	1 3 per pot for 15 cm (6") and larger
Sun exposure	Sun or partial shade
Water requirements	Reduced, avoid wet conditions
Flowering season	Spring and autumn
Media	A well-drained, porous media is best to prevent over watering pH 5.5-6.2 EC 0.5-0.70 (75-100 ppm N)
Growing temperature	Plants can be grown at 10-15°C (50-59°F) or as cool as possible during warm weather conditions Higher average day temperature will speed up the process
Light	Increasing daylength induces flowering
Fertilizer needs	Balanced N:P:K fertilizer as needed recommended, instead EC 1.4-1.8 (210-270 ppm N) with a calcium-based fertilizer
Crop time	For autumn sales 6-10 weeks, early spring feb/mar sales 20-24 weeks
Hardiness zone	Z 6-8



Mixture

Growth regulators

Chlormequat ("C.C.C"), Daminozide (Dazide, B-Nine) or Paclobutrazol (Bonzi)

Common Diseases

Pythium, Phytophthora, Leaf spot and Botrytis

Common Pests

Check/monitor for Fungus Gnats and shore flies during plug production
Aphids and Thrips

NOTE:

Always refer to manufacturers' recommendations for use of chemical growth regulates. Or the information in this Culture Focus Sheet is based on our own experience with the products in our own growing conditions

Pansy S1 Trumpet Series - Viola wittrockiana

Plug Production



Seed forms	Raw-pro-seed
Seed count	700-950 sds/gr (20,000-27,000 seeds/oz)
Seeds cell	1
Vermiculite cover	Normal cover
Stage 1 Germination	<p>Raw seed germination takes 4 to 5 days</p> <p>Pro-seed takes 2 to 3 days 18-24°C (65-75°F) sow the seeds in a well moistened soil mix with a pH between 5.5-5.8</p> <p>Light is not necessary for germination until radicle emergence</p> <p>EC 0.5-0.7 (75-100 ppm N)</p> <p>Pansy is very sensitive to high salts, particularly high ammonium, during germination. Keep ammonium levels less than 10 ppm</p>
Stage 2 Stem and cotyledon	<p>Growing medium temperature 15-18°C (60-65°F)</p> <p>The cooler the temperature, the slower and more toned the plant growth</p> <p>Reduce moisture levels once radicle emergence occurs!</p> <p>Allow the soil to dry out slightly before watering for best germination and rooting</p>
Stage 3 Growth and development	<p>Reduce moisture levels and allow medium to dry slightly between watering but do not allow plants to wilt</p> <p>Temperature: 15-18°C (65-68°F)</p> <p>Fertilizers: EC 1.4-1.8 (210-270 ppm N)</p>
Stage 4 Ready for transplanting	<p>Reduce moisture levels and allow medium to dry between watering, do not allow plants to wilt</p> <p>Temperature: 13-15°C (54-59°F)</p> <p>Fertilizers: see stage 3</p>
Plug crop time	4-5 weeks
Approximate finish time	For autumn sales 6 weeks, early spring feb/mar sales 16-20 weeks
Special tips	<p>Transplant seedlings in a well-drained media with a pH of 5.8-6.0</p> <p>Allow media to dry slightly between waterings but do not allow plants to wilt</p> <p>Plants can be grown at 10-15°C (50-59°F) or as cool as possible during warm weather conditions</p>