

Life cycle	Hardy annual/biennial
Family/origin	Violaceae
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 1.4-1.8 (100-150 ppm)
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 fertiliser as needed recommended EC 1.4-1.8 (100-150 ppm) 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 (Cycocel), 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

Pinching

No need

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
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 0.5-1.0 (50-75 ppm)</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: as stage 2</p> <p>To prevent stretching alternate with potassium nitrate at EC 1.4-1.8/ (100-150 ppm)</p>
Stage 4 Ready for transplanting	<p>Moisture: reduce moisture levels and allow medium to dry between watering</p> <p>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>