

Verbena bonariensis Purple Haze



Life cycle	Biennial-perennial
Family/origin	Verbenaceae/Argentina
Popular uses	First-year-flowering perennial, mixed containers, patios and garden beds, accent plant
Mature plant height	80-100 cm (32-40")
Mature plant width	20-35 cm (8-14")
Pot size	12-15 cm (5-6") gallon containers and larger
Plants per pot	1 per 10 cm (4") 3 per 15 cm (6") or larger pot
Sun exposure	Full sun
Water requirements	Reduced, avoid wet conditions
Flowering season	Late spring, early summer
Media	A well-drained, porous media is best to prevent over watering pH 5.5-6.2 EC 0.75-1.75 (100-150 ppm)
Growing temperature	Temperature for active growth 10-16°C (50-60°F) at night days up to 16°C (60°F) Higher average day temperature will speed up the process
Light	Increasing daylength induces flowering
Fertilizer needs	Well balanced calcium based fertilizer, avoid those based on ammonium nitrate as that will promote stretch EC 1.4-2.5 (175-225 ppm)
Crop time	15-20 weeks depending on season
Hardiness zone	Z 7-11



Purple haze

Growth regulators

Daminozide (Dazide, B-Nine)
Paclobutrazol (Bonzi)

Common Diseases

Wet foliage needs to be avoided to prevent Powdery mildew, Leafspots
Rust can also cause problems

Common Pests

Spider mites, Aphids, Whiteflies, Snails and Leaf miners

Pinching

No need, although frequent cutting will enhance re-growth

Crop type

First year flowering
(no vernalisation needed)

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Plug Production



Seed forms	Raw and pro-seed
Seed count	4500-5000 sds/gr (126,000-140,000 sds/oz) <i>Varies by lot!</i>
Recommended plug size	288-128
Seeds cell	4-5
Vermiculite cover	Normal
Stage 1 Germination	6-9 days for germination Media pH 5.5 to 6.3 EC 0.5-1 (75-100 ppm) Moisture: keep medium saturated Temperature: 20-22°C (68-72°F) growing medium temperature Fertilization: EC 0.5-1.0 (50-75 ppm)
Stage 2 Stem and cotyledon	Reduce moisture levels to obtain optimum root penetration and to prevent fungal diseases. Prevent wet foliage after nightfall Temperature: 18-20°C (65-68°F) Fertilization: EC 0.7-1.2 (100-175 ppm)
Stage 3 Growth and development	Moisture: reduce moisture levels and allow medium to dry between watering. Do not allow plants to wilt Temperature: 18-20°C (65-68°F) Fertilization: as stage 2 To prevent stretching alternate with potassium nitrate at EC 1.4-1.8 (100-150 ppm)
Stage 4 Ready for transplanting	Moisture: reduce moisture levels and allow medium to dry between watering. Do not allow plants to wilt Temperature: 13-15°C (54-59°F) Fertilization: see stage 3
Plug crop time	5-6 weeks
Approximate finish time	10-15 weeks
Special tips	Tolerate heat and drought, watering evenly when necessary The crop needs to have good air circulation in well ventilated conditions