

Begonia Hiemalis Culture/ Database Information

Plant Width (minimum – maximum)	5 –7 IN (12 – 18CM)
Plant Height (minimum – maximum)	7 – 11 IN (17– 24CM) including pot
Plant Spacing (minimum – maximum)	6 – 8 IN (15 - 20CM)
Consumer Watering - choose one (Light, Medium, Heavy)	Medium
Consumer Fertilizing - choose one (Once a week, Every two weeks, Once a month, none/only when needed)	Once a month
Exposure - choose all that apply (Sun, Part Sun, Shade, Part Shade, Full Shade)	Ranges from “part sun” in cooler area to “part shade” in warmer areas; most important is to avoid full direct sun in warmer areas (burning flowers)
Degree Of Hardiness (ex. 50°F 10°C)	40 F ; 4 C
Bloom season - choose all that apply (Early Spring, Spring, Late Spring, Summer, Late Summer, Autumn)	Flowers from spring to frost
Plant Habit - choose all that apply (mounded, spreading, trailing, upright)	Upright
Uses – choose all that apply (Butterfly Garden, Border, Cottage Garden, Embankment, Formal Garden, Filler, Foundation, Garden Bed, Hanging Basket, Large Container, Landscape, Mixed Container, Potted Plant, Pathway, Small Container)	Border, Cottage Garden, Formal Garden, Garden Bed, Hanging Basket, Mixed container, Small container
Characteristics – choose all that apply (Attracts bees, attracts butterflies, attracts humming birds, deer resistant, drought tolerant, rabbit resistant, water/rain tolerant, fragrant flowers, heat tolerant, shade tolerant, low maintenance)	Continued flowering up to frost, Water/rain tolerant, self-cleaning, low maintenance
Diseases – choose all that apply (Agrobacterium (stem canker, Alternaria (leaf spot), Anthracnose, Botrytis, Cercospora (leaf spot), Crown Rot, Downy Mildew, Erwinia, Fusarium, Phytophthora Rhizoctonia, Powdery Mildew, Pseudomonas, Pythium, Ralstonia, Rhizopus, Root&crown rot, Root&stem rot, Root Rot, Rust, Spot Virus, Stem Rot, Thielaviopsis, Tobacco Mosaic Virus, Verticillium, Xanthomonas)	Fusarium, Xanthomonas
Pests – choose all that apply (Aphids, Fungus gnats, Imported Fire Ants, Leafminer, Mealybugs, Mites, Nematodes, Scale insects, Slugs/snails, Spider mites, Thrips Whitefly, Worm/caterpillars)	Begonia mite, thrips, white fly (in practice very few pest problems are found)
Other Notes	

Other Important Areas Of Note:

- Do not plant root ball of cutting below surface of potting mix.

Rooting Guidelines						
Recommended Cell Size	Rooting Hormone?	Average Days with Mist	Early PGR Treatment?	Average Propagation	Pinch In Propagation?	Comments
50 or 72 cell tray Betulia prefers larger size of plugs (more vegetative growth)	no	14 – 17 days until first roots visible	no	35 – 40 days	no	Start at 73F and finish at 68F 16 hours day length (under sodium light)
Rooting & Finishing			Media PH Comments: too low pH can cause iron deficiency Fertilizer Needs Comments: Start at higher nitrogen and finish at higher potassium Watering comments: irregular water levels create growth distortion. Too wet conditions causes plants to lose roots and plants color yellow, too dry conditions reduces growth			
Media PH	Fertilizer Needs	Watering				
5,5 – 6,0	Target EC in pot of 0,9-1,2	Begonia Hiemalis prefers regular moistness levels (2-3 times per week)				
Finishing Guidelines						
Temperature Needs Day/Night	Pinch After Transplant?	Light Levels In uMole/sec² or foot candles?	PGR?	Pests and Fungal Diseases?	Comments	
Start at 68F and finish at 60F A cold start promotes early flowering and too small plants	Optional : - Full pinch at 3 full grown leaves for optimal branching (7-10 days delay) - Soft pinch for at 7 – 8 leaves to avoid one open side (only few days delay)	16 hours day length promotes vegetative growth (minimum 300 foot-candles)	Not required 750ppm Cycocel can be applied in case of holding plants	No preventive program required (only when you find issues) Avoid Fusarium and Xanthomonas : - Maintain strict hygiene procedures - Avoid overhead watering	7-10 days short days (11 hours day length) starting 3- 4 weeks from planting with blackout shading gives richer flowering and is used by most European growers.	
Crop Time By Size						
5"-6", 1 plant per pot, 9-11weeks Best option !		8", 3 plants per pot, 10-12 weeks		10", 5 plants per pot, 10-12 weeks		12", 7 plants per pot, 10-12 weeks