Inspire® Pansies – Key Fall Colors for Summer Production


White


White with Blotch


Blue Angel


Purple and White


True Blue


Lilac with Blotch


Blue with Blotch


Deep Blue with Blotch


Blue Velvet


Purple


Carmine with Blotch


Red with Blotch


Yellow with Blotch


Golden Yellow

Maximum Seed storage	1 year
Temperature / Relative Humidity	40 °F (4 °C), 35%
% moisture in Seed	10%
Media (Plug):	
Peat - Perlite -OR-	80% - 20%
Peat - Vermiculite - Perlite	70% - 15% - 15%
Media Chemical Properties	pH 5.5 - 5.8; EC 0.5
Media Testing	2:01
Cation Exchange Capacity	6-25 meq/100 cc
Media Air porosity:	
Water holding capacity; unavailable water	50%; < 10%
Media Compactness - Seed Placement	Loose – Medium
Media Moisture	70%
Tray type / New verses Old	Gray with vented holes – New trays
Covering	Yes, with Vermiculite
Wetting agent	Added to seed

Fertilizer	NH_4-N	NO_3-N	Urea-N	P	K	Ca	Mg	S
14-4-14 @ 150 ppm N	22	128	0	18	125	53	22	0
			Fe	Mn	Cu	Zn	B	Mo
			0.75	0.38	0.19	0.38	0.19	0.075
17-5-17 @ 150 ppm N	38	113	0	19	125	26	9	0
			Fe	Mn	Cu	Zn	B	Mo
			0.75	0.38	0.19	0.38	0.19	0.075
20-10-20 @ 150 ppm N	60	90	0	32	125	0	0	0
			Fe	Mn	Cu	Zn	B	Mo
			0.75	0.38	0.19	0.38	0.19	0.075

inspire

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Pansy Inspire® Series

Examples of Optimum Growth (Summer Production)





Stages	Germination 1 (Image: Day 5)	Germination 2 (Image: Day 14)	Bulking and Flower Initiation (Image: Day 21)	Initiated Bulking (Image: Day 31)	Transplanted Bulking (Image: Day 70)
Approximate Age in Days	**Day 1 to Day 5**	**Day 6 to Day 14**	**Day 15 to Day 21**	**Day 22 to Day 35**	**Day 36 to Day 70**
Relative Humidity	95-98%	40%	40%	40%	40%
Media Moisture	Sat (5)	Wet (4) to Moist (3)	Sat (5) to Medium (2)	Sat (5) to Medium (2)	Sat (5) to Medium (2)
Media pH	5.5	5.5	5.5	5.5	5.5
Media EC	1.2	1.75	2	1.75	1.75
Temperature Day and Night	66 °F (19 °C)	65 °F (18 °C); -2 to -3 °F (-1.5 to -2 °C) *DIF or morning drop	65 °F (18 °C); -3 to -5 °F (-2 to -3 °C) *DIF or morning drop	65 °F (18 °C); -5 to -10 °F (-3 to -6 °C) *DIF or morning drop	65 °F (18 °C); -5 to -10 °F (-3 to -6 °C) *DIF or morning drop
Total accumulated light per Day	10 - 25 f.c.	GERM 2A: 1500-2000 f.c. (4-6 mols/day); GERM 2B: 2000-2500 f.c. (6-8 mols/day)	3500-5000 f.c. (12-18 mols/day)	4250-5500 f.c. (15-20 mols/day)	4000-6000 f.c. (14-22 mols/day)
Fertilize to maintain EC levels	14-4-14 @ 60-75 ppm N; 6-8 ppm P	14-4-14 @ 60-75 ppm N; 8-10 ppm P; total of 0.5 ppm B in irrigation water	14-4-14 @ 75-100 ppm N; 8-12 ppm P; total of 0.5 ppm B in irrigation water	14-4-14 @ 100-125 ppm N; 8-12 ppm P; total of 0.5 ppm B in irrigation water	14-4-14 @ 100-150 ppm N; 8-12 ppm P; 0.5 ppm B; use lower water soluble fertilizer rates if controlled release fertilier is used
Plant Growth Regulators (Recommended rates and frequency vary greatly by region. Contact your Benary Reps for more information.)		B-Nine spray @ 2500 ppm	A-Rest foliar spray @ 5 ppm approximately Day 20	B-Nine spray @ 2500-7500 ppm or A-Rest @ 2-3 ppm	Less vigorous colors: B-Nine spray @ 2500 ppm and A-Rest @ 3 ppm tank mix; Vigorous colors: B-Nine @ 5000 ppm and A-Rest @ 5 ppm tank mix

Key Points:

– Flowering Mechanism: Irradiance (primary); plants initiate on approximately Day 15 with HID light for 18 hours OR total 12-18 mols (3500-3500 f.c.) for 2-4 weeks at 67 °F (19 °C)
– pH 5.5-5.8; media and tissue Ca:Mg ratio = 3:1. media boron should be 0.75 ppm
– In Germ 2, light needs to be a minimum of 1500 f.c. (4 mols/day)
– Check for root and root hair development on day 7
– Check germination for uniformity, especially on day 9
– Check that soil test phosphorus concentrations are < 20 ppm P
– Check for pedicle stretch
– Alkalinity: 50-70 ppm of HCO_3

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