

2013 UW-WMARS Trial Site Conditions

Weather Summary

Overall, we had a cool growing season with only 11 days over 90degrees F and a high temp of 93degrees F on July 17. The season began with very cool soil temps. April's average temperature was 44.1degrees F with 10 days at 32degrees F or below. In addition 19 of 31 days in April were partly cloudy or cloudy. The lack of sunshine continued on into May, which also had 19 of 30 days partly cloudy or cloudy. Though the average temp in May was a bit higher than normal, we did experience a low of 35degrees F on May 24th. More importantly we received 6.6in of rain, almost 3inches above normal. The cool wet conditions of April and May resulted in low soil temperatures at trial planting time on June 1.

All of our selections were planted by June 1. June 3 we experienced a 41degree F low temp that seemed to stress the newly planted selections. The month continued with the trend of cool, cloudy (21 of 30days), and wet with 10.9in of rain, nearly 6 inches above normal. In total we received 23.3in of rain from April 1-June 30. This was nearly 12in above normal. Though the moisture was appreciated, we experienced conditions that washed available nitrogen out of the shallow root zone of the newly planted selections. Cool wet soil in combination with lack of nitrogen led to slow growth and stunted plant size.

July began to dry out and the sun began to shine. In July we had 4inches of rain and 18 of 30 days clear and sunny. Though the plants were delayed, they displayed excellent growth. Timely rains throughout the month created ideal growing conditions.

In August conditions became very dry. Between Aug 1 and Aug 22 we received only .3 inches of rain. This required us to irrigate selections. Flowering plants continued to show delayed maturity and vegetable/fruit crops displayed significantly delayed ripening. The delay in ripening was accentuated by a low temp of 46degrees F on Aug 14. September continued with dry conditions and the trial ended on Sept 16th

Overall, selections faired well with few pathogens and very minimal insect pressure.

Brian Emerson
Trial Garden Manager
bemerson@wisc.edu

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BEGONIA

Genus	Series	Cultivar	Company	Rating (1=poor - 5=excellent)			Summer avg	Notes		
				9-Jul	6-Aug	10-Sep		9-Jul	6-Aug	10-Sep
Begonia	Baby Wing	'Pink'	Ball	4	4	5	4.3	6-8 in. tall; 60% bloom coverage	10"x12" (height x width)	
Begonia	Baby Wing	'White'	Ball	4	4	5	4.3	6-8 in. tall; 40% bloom coverage	12"x12"	
Begonia	Dragon Wing	'Red'	Ball	3.5	3	5	3.8	4-6 in. tall; no blooms	8"x10"; no flowers	
Begonia	Dragon Wing	'Pink'	Ball	3.5	3.5	5	4.0	4-6 in. tall; no blooms	6"x10"; poor flowering	
Begonia	Whopper	'Red w/Bronze Leaf'	Ball	4	4.5	5	4.5	8-10 in. tall; 5% bloom coverage	16"x14"	26"x22"
Begonia	Whopper	'Red w/Green Leaf'	Ball	4	4.5	5	4.5	8-10 in. tall; 15% bloom coverage	16"x16"	26"x22"
Begonia	Whopper	'Rose w/Bronze Leaf'	Ball	3.5	3.5	4.5	3.8	4-8 in. tall; no blooms; inconsistent plant size	Inconsistent plant size and flowering	24"x20"
Begonia	Whopper	'Rose w/Green Leaf'	Ball	4	4	5	4.3	8-10 in. tall; 5% bloom coverage	12"x14"	24"x20"
Begonia	Encore IV	'Pink'	Ball	4	4	4.5	4.2	4-6 in. tall; 60% bloom coverage	10"x10"	2/8 plants with crown rot
Begonia	Encore IV	'Red'	Ball	4	4	4.5	4.2	4-6 in. tall; 60% bloom coverage	10"x10"	
Begonia	Harmony	'Pink'	Ball	4	3.5	4.5	4.0	4 in. tall; 75% bloom coverage	6"x6"	
Begonia	Harmony	'Scarlet'	Ball	3.5	4	4.5	4.0	4 in. tall; 50% bloom coverage	8"x8"	
Begonia	Harmony	'White'	Ball	4	3.5	4	3.8	4-6 in. tall; 80% bloom coverage	8"x8"	
Begonia	Prelude	'Pink Rose'	Ball	4	4	4.5	4.2	6 in. tall; 80% bloom coverage	12"x12"	
Begonia	Prelude	'Scarlet'	Ball	4	4	4.5	4.2	6 in. tall; 80% bloom coverage	12"x10"	
Begonia	Prelude	'White'	Ball	4	4	4.5	4.2	6 in. tall; 80% bloom coverage	10"x10"	
Begonia	Yin	'Pink'	Ball	4	4	4.5	4.2	6 in. tall; 75% bloom coverage	8"x10"	
Begonia	Yin	'Red'	Ball	4	3.5	4	3.8	6 in. tall; 60% bloom coverage	8"x8"; faded flower color	
Begonia	Yin	'Rose'	Ball	4	4	4.5	4.2	4-6 in. tall; 80% bloom coverage	8"x10"; inconsistent plant size	Inconsistent plant size
Begonia	Yin	'White'	Ball	4	4	4	4.0	4-6 in. tall; 80% bloom coverage	8"x10"	
Begonia	Yang	'Pink'	Ball	4	4	4.5	4.2	4-6 in. tall; 75% bloom coverage	8"x10"	
Begonia	Yang	'Rose'	Ball	4	4	4	4.0	4-6 in. tall; 80% bloom coverage	8"x8"	Inconsistent plant size
Begonia	Yang	'White'	Ball	4	3.5	4	3.8	4-6 in. tall; 60% bloom coverage	8"x8"	

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				9-Jul	6-Aug	10-Sep		9-Jul	6-Aug	10-Sep
Begonia		Sparks Will Fly (shade)	Ball	3.5	4	4.5	4.0	Inconsistent plant size; 7/8 plants blooming; small plant size	6"x10" (height x width); good flower/foilage contrast	6"x10"; healthy
Begonia	Volumina	'Pink'	Syngenta	4	4	4.5	4.2	6-8 in. tall; 90% bloom coverage	12"x12"	
Begonia	Volumina	'Rose Bicolor'	Syngenta	4	4	4.5	4.2	6-8 in. tall; 90% bloom coverage	12"x10"; inconsistent plant size	
Begonia	Volumina	'White'	Syngenta	4	4	4.5	4.2	6 in. tall; 90% bloom coverage	8"x10"	
Begonia	Volumina	'Scarlet'	Syngenta	4	4	4.5	4.2	6-8 in. tall; 90% bloom coverage	10"x10"	
Begonia		'Braveheart'	Syngenta	5	5	5	5.0	10-12 in. tall; 90% bloom coverage	Consistent plant size and blooms	
Begonia	Dragone	'Sunset'	Dummen	2	0	0	0.7	4 in. tall; 30% bloom coverage; chlorotic; brown leaf margins	All dead	All dead
Begonia	Dragone	'Dusty Rose'	Dummen	2.5	1	0	1.2	4 in. tall; 50% bloom coverage; chlorotic; brown leaf margins	Plant brown and withered	All dead
Begonia	Dragone	'White Blush'	Dummen	1.5	0	0	0.5	4-6 in. tall; 20% bloom coverage; 3/6 plants dying; chlorotic; brown leaf margins	All dead	All dead
Begonia	Big	Red BL 128	Dummen	4.5	4.5	5	4.7	6-8 in. tall; 50% bloom coverage	16"x18"	22"x20"
Begonia	Big	Red GL 72	Dummen	4	4.5	5	4.5	4-6 in. tall; 50% bloom coverage	12"x14"	22"x18"
Begonia	Big	Rose BL 128	Dummen	4.5	4.5	5	4.7	6-8 in. tall; 50% bloom coverage	14"x14"	22"x18"
Begonia		Santa Cruz Sunset 128	Dummen	2	1.5	1	1.5	4-10 in. tall; 2/8 plants dying; chlorotic; brown leaf margins	3/8 plants dead; poor vigor	Most plants dead
AVERAGE				3.8	3.6	4.1	3.8			
STD DEV				0.69	1.14	1.41	1.05			

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LANTANA

Genus	Series	Cultivar	Company	Rating (1=poor - 5=Excellent)			Summer avg	Notes		
				9-Jul	6-Aug	10-Sep		9-Jul	6-Aug	10-Sep
Lantana	Landmark	Blaze	Ball	3.5	4	4	3.8	14"x16" (height x width); 40% bloom coverage	12"x30"; 50% bloom coverage	
Lantana	Landmark	Citrus	Ball	3.5	5	5	4.5	10"x12"; 60% bloom coverage; inconsistent bloom coverage between plants; blooms above foliage	10"x24"; 70% bloom coverage	
Lantana	Landmark	Gold	Ball	4	4	4	4.0	14"x18"; 50% bloom coverage	16"x30"; 55% bloom coverage	
Lantana	Landmark	Peach Sunrise	Ball	3.5	5	5	4.5	8"x10"; 50% bloom coverage	10"x18"; 70% bloom coverage	
Lantana	Landmark	Rose Glow	Ball	3.5	4	4	3.8	10"x14"; 40% bloom coverage	10"x24"; 40% bloom coverage	
Lantana	Landmark	Rose Sunrise	Ball	4	4	4	4.0	10"x12"; 60% bloom coverage	10"x14"; 50% bloom coverage	
Lantana	Landmark	White	Ball	3.5	4	4	3.8	10"x14"; 25% bloom coverage	12"x18"; 50% bloom coverage	
Lantana	Landmark	Yellow	Ball	4	4	4	4.0	10"x14"; 60% bloom coverage	12"x14"; 60% bloom coverage	
Lantana	Lucky	Flame Imp	Ball	4	4	4	4.0	12"x12"; 60% bloom coverage	12"x18"; 50% bloom coverage	
Lantana	Lucky	Lemon Glow	Ball	4	4	4	4.0	10"x8"; 50% bloom coverage	10"x14"; 50% bloom coverage	
Lantana	Lucky	Lemon Yellow	Ball	4	4	4	4.0	12"x10"; 50% bloom coverage	12"x18"; 50% bloom coverage	
Lantana	Lucky	Peach	Ball	3.5	4	4	3.8	8"x6"; 35% bloom coverage	10"x10"; 40% bloom coverage	
Lantana	Lucky	Pot of Gold	Ball	4	4	4	4.0	12"x10"; 50% bloom coverage	10"x16"; 50% bloom coverage	
Lantana	Lucky	Pure Gold	Ball	4	4	4	4.0	12"x10"; 40% bloom coverage	16"x18"; 60% bloom coverage	
Lantana	Lucky	Rose Sunrise	Ball	4	4	4	4.0	10"x10"; 60% bloom coverage	10"x12"; 60% bloom coverage	
Lantana	Lucky	White	Ball	4	4	4	4.0	12"x12"; 50% bloom coverage	12"x16"; 30% bloom coverage	
Lantana	Little Lucky	Lemon Cream	Ball	4	4	4	4.0	6"x8"; 50% bloom coverage	8"x10"; 40% bloom coverage	
Lantana	Little Lucky	Peach Glow	Ball	3.5	3.5	3.5	3.5	6"x8"; 30% bloom coverage; inconsistent bloom coverage between plants	6"x12"; 20% bloom coverage	1/8 plants twice as large as other plants, not compact
Lantana	Little Lucky	Hot Pink	Ball	4	3.5	3.5	3.7	6"x8"; 40% bloom coverage	8"x12"; 20% bloom coverage	
Lantana	Little Lucky	Pot of Gold	Ball	4.5	3.5	3.5	3.8	8"x10"; 50% bloom coverage	10"x14"; 50% bloom coverage	
Lantana	Little Lucky	Red	Ball	4	3.5	3.5	3.7	8"x10"; 40% bloom coverage; blooms hidden by foliage	12"x14"; 20% bloom coverage; blooms hidden by foliage	
Lantana	Bandana	Cherry'	Syngenta	4	3.5	3.5	3.7	10"x10"; 50% bloom coverage	10"x14"; 40% bloom coverage; fruit evident	
Lantana	Bandana	Cherry Sunrise	Syngenta	4	3.5	3.5	3.7	10"x10"; 60% bloom coverage	12"x18"; 30% bloom coverage; fruit evident	
Lantana	Bandana	Lemon Zest'	Syngenta	4	3.5	3.5	3.7	8"x10"; 70% bloom coverage	10"x14"; 40% bloom coverage; inconsistent blooming between plants	
Lantana	Bandana	Light Yellow'	Syngenta	4	5	5	4.7	10"x12"; 60% bloom coverage	10"x14"; 60% bloom coverage	
Lantana	Bandana	Peach'	Syngenta	3.5	4	4	3.8	8"x10"; 30% bloom coverage; inconsistent plant size	10"x14"; 50% bloom coverage	
Lantana	Bandana	Pink'	Syngenta	4	4	4	4.0	10"x12"; 55% bloom coverage	12"x18"; 60% bloom coverage	
Lantana	Bandana	Red'	Syngenta	4	4	4	4.0	8"x10"; 40% bloom coverage	12"x14"; 50% bloom coverage	

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Lantana	Bandana	Rose'	Syngenta	4	4	4	4.0	10"x12"; 50% bloom coverage; blooms hidden by foliage	10"x18"; 25% bloom coverage	
Lantana	Bandana	Trailing Gold'	Syngenta	4.5	5	5	4.8	12"x20"; 60% bloom coverage	12"x36"; 60% bloom coverage	
Lantana	Bandana	White'	Syngenta	4	5	5	4.7	8"x10"; 50% bloom coverage	10"x14"; 60% bloom coverage	
Lantana		Dallas Red	Gloekner	3.5	4	4	3.8	12"x16"; 40% bloom coverage; small flowerheads; flowers hidden by foliage	14"x34"; 60% bloom coverage; blooms hidden by foliage	
Lantana		Confetti	Gloekner	4	4	4	4.0	12"x18"; 30% bloom coverage	25"x30"; 40% bloom coverage; fruit evident	
Lantana		Irene	Gloekner	3.5	4	4	3.8	12"x14"; 35% bloom coverage	24"x20"; 45% bloom coverage	
Lantana		Samantha	Gloekner	4	4	4	4.0	8"x12"; 40% bloom coverage	10"x16"; 20% bloom coverage	
Lantana		New Gold	Gloekner	4.5	4.5	4.5	4.5	12"x24"; 50% bloom coverage	12"x30"; 50% bloom coverage	
Lantana		Purple Trailing	Gloekner	4	3	3	3.3	12"x18"; 60% bloom coverage	10"x30"; 25% bloom coverage; chlorotic	
Lantana		Elegance	Gloekner	4	4.5	4.5	4.3	12"x16"; 60% bloom coverage	12"x18"; 60% bloom coverage	
Lantana		Fireworks	Gloekner	4	4	4	4.0	10"x8"; 50% bloom coverage	10"x12"; 50% bloom coverage; fruit evident	
Lantana		Golden Zinger	Gloekner	3	4	4	3.7	6"x4"; 30% bloom coverage	8"x8"; 50% bloom coverage	
Lantana		Lavender Traili	Gloekner	4	3	3	3.3	14"x18"; 60% bloom coverage	12"x36"; 20% bloom coverage; chlorotic	
Lantana		Miss Huff	Gloekner	4.5	4	4	4.2	18"x14"; 60% bloom coverage	30"x36"; 40% bloom coverage; fruit evident; old flowers fade to brown	
Lantana		Peaches	Gloekner	4	4.5	4.5	4.3	8"x16"; 60% bloom coverage	10"x14"; 70% bloom coverage; fruit evident	
Lantana		White	Gloekner	4.5	3.5	3.5	3.8	12"x24"; 75% bloom coverage	12"x24"; 35% bloom coverage; random vertical branching	
Lantana	Chapel Hill	Gold	Radtke	3	4	4	3.7	8"x12"; 30% bloom coverage	10"x24"; 40% bloom coverage	
Lantana	Chapel Hill	Yellow	Radtke	3	4	4	3.7	8"x12"; 30% bloom coverage	10"x24"; 40% bloom coverage	
Lantana		Sunny Side Up	Radtke	3	4	4	3.7	8"x5"; 50% bloom coverage	10"x16"; 50% bloom coverage	
AVERAGE				3.9	4.0	4.0	4.0			
STD DEV				0.38	0.46	0.46	0.32			