Evaluation of fungicide programs for control of powdery mildew on grapevines, 2022

Experimental and registered fungicides were tested in various combinations for the control of powdery mildew in a 11-yrs-old 'Chenin Blanc' vineyard at the University of California Davis Plant Pathology Field Research Facility in Davis, CA. Rows were spaced 11 feet apart and vines 7 feet apart. Fungicide treatments were applied from mid-Apr until mid-Jul. The spray volume was gradually increased from 50 to 150 gal/A as the vines grew to ensure complete coverage. Treatments were applied to run-off using a mist blower backpack sprayer (Stihl SR 430). Treatments were performed in a complete randomized block design with four replicates of two vines each. Trial I consisted of synthetic fungicides and combinations of soft chemistry and synthetic products. Trial II consisted of soft chemistry products, including biologicals, sulfurs, nutrient applications, oils, and other materials. Spray frequencies varied from 7-day to 21-day intervals. During the spray period, vines were irrigated by drip irrigation. Sucker shoot removal and leafing were carried out on 21 Jun. Treatments were evaluated for disease incidence and severity on 23 Jul. A total of twenty-five random clusters were evaluated per replicate. Incidence was defined as the proportion of clusters in a plot showing symptoms and/or signs of powdery mildew. Severity was determined by estimating the percentage of the area of a cluster that was infected; the severity value of all clusters was then averaged to give a plot-wide estimate of disease severity. Mean incidence and severity values for each treatment were computed. Trials data were analyzed using ANOVA and means were compared using Fisher's LSD test (α =0.05).

Temperatures were mild and dry throughout the growing season, nine precipitation events of 0.01 to 0.5 in. were recorded from Apr to Jul. First signs of powdery mildew were observed in mid-Jun on berries. Overall, the disease pressure was high. By the time of evaluation, disease incidence and severity in the untreated control had reached 85.6% and 40.7%, respectively. All treatments showed a significant reduction in disease incidence and severity compared to the untreated control in Trial I. Programs consisting of synthetic fungicides and combinations of soft chemistry alternated with synthetic products provided a satisfactory control and some programs completely controlled the disease. The experimental materials in rotation and combination with conventional fungicides also provided satisfactory disease control. The least effective programs were Gatten 6.4 fl oz and ReyZox 11.58 fl oz. In Trial II, all treatments showed a significant reduction in disease severity compared to the untreated control. Programs of sulfur in regular rotation with other soft chemistry products or experimental fungicides provided very good control. The least effective treatment was the experimental fungicide X7N68-R007 16 fl oz. Phytotoxicity was observed on berries and leaves for treatments Sulfur dry flowable 5lb + JMS Stylet 1% v/v + Serifel 10oz, and OxiDate 5.0 1.0% v/v + Kinetic 0.125% v/v + Sulfur DF 5 lb. Minor symptoms of phytotoxicity on leaves were observed for treatment BoostBiome BC18 70 oz.

Trial I

Treatment and rate/A ^z	Application date (Julian day)	Powdery mild	Powdery mildew on the cluster y	
		Incidence, %	Severity, %	
Abound 15.5 fl oz + Syl-Coat 4 fl oz	105	0.0 a	0.00 a	
Prolivo 5 fl oz + Syl-Coat 4 fl oz	119			
Kenja 22 fl oz + Rally 4 oz + Syl-Coat 4 fl oz	132			
Quintec 4 oz + Syl-Coat 4 fl oz	147			
Torino 3.4 oz + Syl-Coat 4 fl oz	161			
Merivon 4 oz + Syl-Coat 4 fl oz	178			
Vivando 15.4 oz + Syl-Coat 4 fl oz	193			
PureSpray Green 1 gal	103, 110, 117	0.0 a	0.00 a	
Luna Experience 8.6 fl oz	124, 182			
Pristine 23 oz	138			
Elevate 16 oz	152			
Parade 3.1 fl oz	166			
Parade 3.1 fl oz + Dyne-Amic 0.25% v/v	108, 122, 136, 150, 165, 179, 194	0.0 a	0.00 a	
Aprovia Top 13.3 fl oz +Syl-Coat 0.125% v/v	122, 179	0.0 a	0.00 a	
Quintec 6.6 fl oz + Syl-Coat 0.125% v/v	136, 194			
Miravis Prime 13.4 fl oz +Syl-Coat 0.125% v/v	165			
Inspire Super 20 fl oz +Syl-Coat 0.125% v/v	150			
Aprovia Top 13.3 fl oz + A9180B 0.5 oz +Syl-Coat 0.125% v/v	122, 179	0.0 a	0.00 a	
Quintec 6.6 fl oz + A9180B 0.5 oz + Syl-Coat 0.125% v/v	136, 194			
Miravis Prime 13.4 fl oz + A9180B 0.5 oz +Syl-Coat 0.125% v/v	165			
Inspire Super 20 fl oz + A9180B 0.5 oz + Syl-Coat 0.125% v/v	150			
Prolivo 5 fl oz+ Dyn-Amic 0.125% v/v	105, 119, 132, 147, 178, 193	0.8 a	0.01 a	
PureSpray Green 1 gal	108	0.8 a	0.01 a	
Inspire Super 20.0 fl oz + Syl-Coat 0.125% v/v	122, 194			
Aprovia Top 13.3 fl oz + Syl-Coat 0.125% v/v	136, 165, 179			
Quintec 6.6 fl oz + Syl-Coat 0.125% v/v	150			
BTS-EXP-100 20.5 fl oz	108, 150	0.8 a	0.01 a	
Quintec 5fl oz	122			
Mettle 4 fl oz	136			
Inspire Super 20 fl oz	165			
Luna Experience 8.6 fl oz	179			
Vivando 15 fl oz	194			

FAP65 3 lb + Trionic 8 fl oz + Vacciplant 16 fl oz	108	0.1 a	0.04 a
Microthiol Disperss 3 lb + Quintec 4 fl oz + Vacciplant 16 fl oz	122		
Microthiol Disperss 3 lb + Tronic 8 fl oz + Vacciplant 16 fl oz	136		
Inspire Super 20 fl oz	150		
Torino 3.4 fl oz + PhD 6.2 fl oz	165		
Luna Experience 8.6 fl oz	179		
Vivando 15 fl oz	194		
Luna Experience 8.6 fl oz	105, 161	1.6 a	0.02 a
Pristine 23 oz	119, 178		
Elevate 16oz	132, 193		
Parade 3.1 oz	147		
Oxidate 5.0 1.0% v/v	105, 132,161, 193	1.6 a	0.02 a
Luna Experience 8.6 fl oz	119, 147, 178		
Flint Extra 3.5 fl oz + Syl-Coat 4 fl oz	105	1.6 a	0.05 a
Prolivo 5 fl oz + Syl-Coat 4 fl oz	119		
Luna Experince 6.4 fl oz + Syl-Coat 4 fl oz	132		
Quintec 4 fl oz + Syl-Coat 4 fl oz	147		
Torino 3.4 fl oz + Syl-Coat 4 fl oz	161		
Luna Sensation 5 fl oz + Syl-Coat 4 fl oz	178		
Vivando 15.4 fl oz + Syl-Coat 4 fl oz	193		
Sulfur dry flowable 5lb	103, 110, 117, 145, 152, 159, 173, 182,	1.6 a	0.05 a
	192		
Luna Sensation 2.7 fl oz	124		
Switch 17.13 oz	138		
Endura 4.5 fl oz	166		
BTS-EXP-100 27.4 fl oz	108, 150	2.4 a	0.02 a
Quintec 5fl oz	122		
Mettle 4 fl oz	136		
Inspire Super 20 fl oz	165		
Luna Experience 8.6 fl oz	179		
Vivando 15 fl oz	194		
Gatten 6.4 fl oz + Dyne-Amic 0.25% v/v	108, 122, 136, 150, 165, 179, 194	2.4 a	0.06 a
Regev 8.5 fl oz + Dyne-Amic 0.125% v/v	105, 119, 132, 147, 178, 193	2.4 a	0.10 a
Luna Experience 8.6 fl oz	105, 119, 132, 147, 161, 178, 193	3.2 a	0.08 a
Cevya 5 fl oz	105, 119, 132, 147, 161, 178, 193	4.0 a	0.07 a
LALSTOP-G46-WG 1.78oz + LALSTIM-OSMO 4.28 oz	103, 110, 173, 182	12.0 a	0.44 a
Sulfur dry flowable 5lb	117, 145, 192		
Luna sensation 2.7 fl oz	124		
Switch 17.13 oz	138		
LALSTOP-G46-WG 3.57 oz + LALSTIM-OSMO 4.28 oz	152, 159, 166		
Parade 3.2 fl oz + Dyen-Amic12.8 fl oz	136, 159, 179	15.2 a	4.23 a
Gatten 6.4 fl oz	136, 159, 179	34.4 b	3.20 a
ReyZox 11.8 fl oz	105, 119, 132, 147, 161, 178, 193	39.2 b	6.73 a
Untreated Control	Not Applicable	85.6 с	40.7 b

Trial II

Treatment and rate/A ^z	Application date	Powdery mild	Powdery mildew on the cluster	
	(Julian day)	Incidence, %	Severity, %	
PureSpray Green 1 gal	103, 110, 117	2.4 a	0.1 a	
Sulfur Dry Flowable 5 lb	124, 131, 138, 145, 152, 159, 166, 173, 182, 193	2		
P18-16 2 oz + Embrece-EA 16 fl oz	103, 117, 131, 145, 159, 173, 192	4.0 a	0.1 a	
Sulfur Dry Flowable 5 lbs	110, 124, 138, 152, 166, 182			
Sulfur dry flowable 5lb	103, 110, 117, 124, 131, 138, 173, 182, 192	4.0 a	0.2 a	
JMS Stylet 1% v/v	145, 152, 159			
Serifel 10oz	166			
P18-16 1 oz + Embrece-EA 16 fl oz	103, 117, 131, 145, 159,173, 192	10.4 a	0.7 a	
Sulfur Dry Flowable 5 lbs	110, 124, 138, 152, 166, 182			
OxiDate 5.0 1.0% v/v + Kinetic 0.125% v/v	117, 131, 145, 159, 173, 192	18.4 a	1.1 ab	
Sulfur DF 5 lb	124, 138, 152, 166, 182			

²Products with a '+' sign in between indicates a tank mix.

^y Means followed by the same letter within a column are not significantly different according to Fisher's LSD with α =0.05.

International Content Inte	LALSTOP-G46-WG 1.78 oz + LALSTIM-OSMO 4.28 oz	103, 166	28.8 b	2.0 a-c
MAS Stylet 1% v/v	Prev AM Ultra 50 fl oz	110		
LALSTOP - G46 WG 3.57 oz + LALSTIM-OSMO 4.25 oz 152 152 153 154 156 173, 182 155 156 166, 173, 182 152 159 166, 173, 182 152 159 166, 173, 182 152 159 166, 173, 182 152 159 166, 173, 182 152 159 166, 173, 182 152 159 166, 173, 182 152 163, 164, 164, 164, 164, 164, 164, 164, 164	Sulfur Dry Flowable 5 lb	117, 124, 131, 138, 182, 192		
Serifel 10 oz Serifel 10 o	·			
Serifel 10 oz 152	•	145, 159		
International Content Inte	Serifel 10 oz			
166, 173, 182 193 33.6 b 3.8 ad	Berezi 5 lb	103, 110, 117, 124, 131, 138, 145, 152, 159,	30.4 b	2.1 a-c
Regalia 2 qt + CS-2005 1 qt 108, 122, 136, 150, 165, 179, 194 37.6 b 4.1 a-d Regalia 2 qt + CS-2005 1 qt 103, 110, 117, 124, 131, 138, 145, 152, 159, 39.2 b 6.1 a-f 166, 173, 182, 192 Esendo 2.8lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 40.8 b 6.9 a-f Sulfur Dry Flowable 5 lb 103, 110, 117 42, 131, 138, 145, 152, 159, 166, 173, 182, 192 ESENDO 27.4 fl oz 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 ESENDO 27.4 fl oz 108, 122, 136, 150, 165, 179, 194 44.0 b 18.3 d-g Ninja 8 fl oz 105, 119, 132, 147, 161, 178, 193 47.2 b 5.0 a-e PureSpray Green 1 gal 103, 110, 124, 138, 159, 166, 182 47.2 b 15.9 c-g Sulfur Dry Flowable 5 lb 103, 110, 124, 138, 159, 166, 182 47.2 b 15.9 c-g Sulfur Dry Flowable 5 lb 103, 110, 124, 138, 159, 166, 182 47.2 b 15.9 c-g PureSpray Green 1 gal 103, 110, 124, 138, 159, 166, 182 47.2 b 15.9 c-g Sulfur Dry Flowable 5 lb 103, 110, 124, 138, 159, 166, 182 47.2 b 15.9 c-g Sulfur Dry Flowable 5 lb 103, 110, 124, 138, 152, 159, 166, 173, 182, 192 Vintre 48 fl oz 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 Vintre 48 fl oz 125, 125, 125, 125, 125, 125, 125, 125,				
Regalia 2 qt + CS-2005 1 qt 108, 122, 136, 150, 165, 179, 194 37.6 b 4.1 a-d Regalia 2 qt 103, 110, 117, 124, 131, 138, 145, 152, 159, 39.2 b 61. a-f Esendo 2,8lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 40.8 b 6.9 a-f Sulfur Dry Flowable 5 lb 103, 110, 117 42.4 b 49. a-e BTS-EXP-100 27.4 fl oz 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 42.0 b 18.3 d-g Sulfur Dry Flowable 5 lb 108, 122, 136, 150, 165, 179, 194 44.0 b 18.3 d-g Ninja 8 fl oz 108, 122, 136, 150, 165, 179, 194 44.0 b 18.3 d-g Ninja 8 fl oz 105, 119, 132, 147, 161, 178, 193 47.2 b 5.0 a-e PureSpray Green 1 gal 103, 110, 117, 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 47.2 b 5.0 a-e Sulfur Dry Flowable 5 lb 103, 110, 117, 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 52.0 b 5.9 a-f BTS-EXP-100 20.5 fl oz 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 52.0 b 5.9 a-f BTS-EXP-100 20.5 fl oz 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 52.0 b 5.9 a-f BTS-EXP-100 20.5 fl oz	JMS Stylet-oil 1% v/v	103, 110, 117, 124, 131, 138, 145, 152, 159,	33.6 b	3.8 a-d
Regalia 2 qt	·	166, 173, 182, 192		
166, 173, 182, 192	Regalia 2 qt + CS-2005 1 qt	108, 122, 136, 150, 165, 179, 194	37.6 b	4.1 a-d
Esendo 2.8lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 40.8 b 6.9 a.f	Regalia 2 qt	103, 110, 117, 124, 131, 138, 145, 152, 159,	39.2 b	6.1 a-f
Sulfur Dry Flowable 5 lb BTS-EXF-100 27.4 fl oz 103, 110, 117 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 Ninja 8 fl oz 105, 119, 132, 147, 161, 178, 193 47.2 b 5.0 a-e PureSpray Green 1 gal 103, 110, 117, 124, 138, 159, 166, 182 A7.2 b 5.0 a-e PureSpray Green 1 gal 103, 110, 117, 124, 138, 159, 166, 182 A7.2 b 5.0 a-f BTS-EXP-100 20.5 fl oz 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 Vintre 48 fl oz 108, 122, 136, 150, 165, 179, 194 52.0 b 52.0 b 5.9 a-f BTS-EXP-100 20.5 fl oz 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 Vintre 48 fl oz 108, 122, 136, 150, 165, 179, 194 52.0 b 20.4 fg AGS-FunThyme 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 52.8 b 6.9 a-f Berezi 3 lb 103, 110, 117, 124, 131, 138, 145, 152, 159, 52.8 b 9.1 a-f 166, 173, 182, 192 microSURE 4.36 gal 105, 119, 132, 147, 161, 178, 193 56.8 b 15.6 b-g Cinnaction 50 fl oz + Vintre 32 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 12.1 a-g AGS-FunC-2.0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 57.6 b 12.1 a-g AGS-FunC-2.0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 159, 58.4 b 11.5 a-g LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 58.4 b 11.5 a-g Ercifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 58.4 b 11.5 a-g Ercifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 58.4 b 11.5 a-g Ercifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 58.4 b 11.1 a-f Ercle-6724 12.8 fl oz + LIT00 0.250 % v/v 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f Ercle-6724 12.8 fl oz + LIT00 0.250 % v/v 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f Ercle-6724 12.8 fl oz + LIT00 0.250 % v/v 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f Ercle-6724 12.8 fl oz + LIT00 0.250 % v/v 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f Ercle-6724 12.8 fl oz + LIT00 0.250 % v/v 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f Ercle-6724 12.8 fl oz + LIT00 0.250 % v/v 105, 119, 132, 147,		166, 173, 182, 192		
BTS-EXP-100 27.4 ft oz	Esendo 2.8lb + Kinetic 0.125% v/v	105, 119, 132, 147, 161, 178, 193	40.8 b	6.9 a-f
CS-2005 32 fl oz 108, 122, 136, 150, 165, 179, 194 44.0 b 18.3 d-g	Sulfur Dry Flowable 5 lb	103, 110, 117	42.4 b	4.9 a-e
Ninja 8 fl oz 105, 119, 132, 147, 161, 178, 193 47.2 b 5.0 a-e PureSpray Green 1 gal 103, 110, 124, 138, 159, 166, 182 47.2 b 15.9 c-g Sulfur Dry Flowable 5 lb 103, 110, 1124, 138, 159, 166, 182 47.2 b 5.0 a-e PureSpray Green 1 gal 103, 110, 1124, 138, 159, 166, 182 47.2 b 5.0 b 5.9 a-f BTS-EXP-100 20.5 fl oz 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 Vintre 48 fl oz 108, 122, 136, 150, 165, 179, 194 52.0 b 20.4 fg AGS-FunThyme 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 52.8 b 6.9 a-f Berezi 3 lb 103, 110, 117, 124, 131, 138, 145, 152, 159, 52.8 b 9.1 a-f 166, 173, 182, 192 microSURE 4.36 gal 105, 119, 132, 147, 161, 178, 193 56.8 b 15.6 b-g Cinnaction 50 fl oz + Vintre 32 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 9.9 a-f P18-16 1 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 12.1 a-g AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 57.6 b 13.2 a-g LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 58.4 b 11.5 a-g 166, 173, 182, 192 BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.0 a-f 16724 12.8 fl oz + LI700 0.25% v/v 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LIPI-G724 12.8 fl oz + LI700 0.25% v/v 105, 119, 132, 147, 161, 178, 193 66.8 b 57. a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 51 b + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f N7N68-R007 16 fl oz 100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 51 b + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f N7N68-R007 16 fl oz 100 gal	BTS-EXP-100 27.4 fl oz	124, 131, 138, 145, 152, 159, 166, 173, 182, 192		
PureSpray Green gal 103, 110, 124, 138, 159, 166, 182 47.2 b 15.9 c-g	CS-2005 32 fl oz	108, 122, 136, 150, 165, 179, 194	44.0 b	18.3 d-g
Sulfur Dry Flowable 5 lb BTS-EXP-100 20.5 fl oz 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 Vinte 48 fl oz 108, 122, 136, 150, 165, 179, 194 52.0 b 20.4 fg AGS-FunThyme 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 117, 124, 131, 138, 145, 152, 159, 52.8 b 103, 110, 117, 124, 131, 138, 145, 152, 159, 52.8 b 104, 171, 124, 131, 138, 145, 152, 159, 52.8 b 105, 119, 132, 147, 161, 178, 193 56.8 b 15.6 b-g Cinnaction 50 fl oz + Vinter 32 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 12.1 a-g AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 117, 124, 131, 138, 145, 152, 159, 52.8 b 12.1 a-g AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 117, 124, 131, 138, 145, 152, 159, 57.6 b 12.2 a-g LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 58.4 b 11.5 a-g X7N68-R007 16 fl oz+ Dyne-Amic 0.25% v/v 108, 122, 136, 150, 179, 194 60.8 b 9.7 a-f Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 61.6 b 11.0 a-f 166, 173, 182, 192 BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LP1-6724 12.8 fl oz + L1700 0.250 % v/v 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LP1-6724 12.8 fl oz + L1700 0.250 % v/v 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Regalia 2q 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 103, a-f Howler 51b + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f Howler 51b + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f Howler 51b + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f Howler 51b + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f Howler 51b + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz	Ninja 8 fl oz	105, 119, 132, 147, 161, 178, 193	47.2 b	5.0 a-e
BTS-EXP-100 20.5 fl oz	PureSpray Green 1 gal	103, 110, 124, 138, 159, 166, 182	47.2 b	15.9 c-g
Vintre 48 fl oz 108, 122, 136, 150, 165, 179, 194 52.0 b 20.4 fg AGS-FunThyme 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 52.8 b 6.9 a-f Berezi 3 lb 103, 110, 117, 124, 131, 138, 145, 152, 159, 52.8 b 9.1 a-f 166, 173, 182, 192 105, 119, 132, 147, 161, 178, 193 56.8 b 15.6 b-g Cinnaction 50 fl oz + Vintre 32 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 9.9 a-f P18-16 1 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 12.1 a-g AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 57.6 b 13.2 a-g LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 58.4 b 11.5 a-g ASS-Fun-2 0.5% v/v + Dyne-Amic 0.25% v/v 108, 122, 136, 150, 179, 194 60.8 b 9.7 a-f Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 61.6 b 11.0 a-f BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 117, 138, 159, 166, 182 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-c Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f AVN68-R007 16 fl oz 10.2 kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f AVN68-R007 16 fl oz 10.2 kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f AVN68-R007 16 fl oz 10.2 kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f AVN68-R007 16 fl oz 10.2 kinetic 0.125% v/v 105, 119, 132	Sulfur Dry Flowable 5 lb	103, 110, 117,	52.0 b	5.9 a-f
AGS-FunThyme 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 103, 110, 117, 124, 131, 138, 145, 152, 159, 52.8 b 9.1 a-f 166, 173, 182, 192 microSURE 4.36 gal 105, 119, 132, 147, 161, 178, 193 56.8 b 15.6 b-g Cinnaction 50 fl oz + Vintre 32 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 9.9 a-f P18-16 1 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 12.1 a-g AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 117, 124, 131, 138, 145, 152, 159, 58.4 b 11.5 a-g LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 58.4 b 11.5 a-g Karros and an analysis and an analysis and an analysis and analysis and analysis and an analysis and analysis analysis and analysis analysis and analysis analysis analysis and analysis analysis and analysis analysis analysis analysis and analysis analy	BTS-EXP-100 20.5 fl oz	124, 131, 138, 145, 152, 159, 166, 173, 182, 192		
Berezi 3 lb	Vintre 48 fl oz	108, 122, 136, 150, 165, 179, 194	52.0 b	20.4 fg
166, 173, 182, 192 microSURE 4.36 gal 105, 119, 132, 147, 161, 178, 193 56.8 b 15.6 b-g Cinnaction 50 fl oz + Vintre 32 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 9.9 a-f P18-16 1 oz + Embrecc-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 12.1 a-g AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 57.6 b 13.2 a-g LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159 58.4 b 11.5 a-g 166, 173, 182, 192 166, 173, 182, 192 17.0 a-f 1	AGS-FunThyme 0.5% v/v + Dyne-Amic 0.1% v/v	103, 110, 124, 138, 152, 166	52.8 b	6.9 a-f
microSURE 4.36 gal 105, 119, 132, 147, 161, 178, 193 56.8 b 15.6 b-g Cinnaction 50 fl oz + Vintre 32 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 9.9 a-f P18-16 1 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 12.1 a-g AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 57.6 b 13.2 a-g LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 18.4 b 58.4 b 11.5 a-g X7N68-R007 16 fl oz+ Dyne-Amic 0.25% v/v 108, 122, 136, 150, 179, 194 60.8 b 9.7 a-f Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 16.6 b 11.0 a-f Serifel 8 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 16.6 b 11.0 a-f Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 16.6 b 11.0 a-f BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LPI-G724 12.8 fl oz + LI700 0.250 % v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194	Berezi 3 lb	103, 110, 117, 124, 131, 138, 145, 152, 159,	52.8 b	9.1 a-f
Cinnaction 50 fl oz + Vintre 32 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 9.9 a-f P18-16 1 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 12.1 a-g AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 57.6 b 13.2 a-g LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 58.4 b 11.5 a-g X7N68-R007 16 fl oz+ Dyne-Amic 0.25% v/v 108, 122, 136, 150, 179, 194 60.8 b 9.7 a-f Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 166, 6 61.6 b 11.0 a-f BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LPI-6724 12.8 fl oz + LI700 0.250 % v/v 105, 119, 132, 147, 161, 178, 193 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 67.2 b <t< td=""><td></td><td>166, 173, 182, 192</td><td></td><td></td></t<>		166, 173, 182, 192		
P18-16 1 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 57.6 b 12.1 a-g AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 57.6 b 13.2 a-g LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 58.4 b 11.5 a-g 166, 173, 182, 192 103, 110, 117, 124, 131, 138, 145, 152, 159, 61.6 b 9.7 a-f Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 61.6 b 11.0 a-f 166, 173, 182, 192 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LPI-6724 12.8 fl oz + LI700 0.250 % v/v 105, 117, 138, 159, 166, 182 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 102 103 a-f 103, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 l6 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	microSURE 4.36 gal	105, 119, 132, 147, 161, 178, 193	56.8 b	15.6 b-g
AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v 103, 110, 124, 138, 152, 166 57.6 b 13.2 a-g LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 166, 173, 182, 192 X7N68-R007 16 fl oz+ Dyne-Amic 0.25% v/v 108, 122, 136, 150, 179, 194 60.8 b 9.7 a-f Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 16.6 b 11.0 a-f BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LPI-6724 12.8 fl oz + LI700 0.250 % v/v 105, 117, 138, 159, 166, 182 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 102 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	Cinnaction 50 fl oz + Vintre 32 fl oz	105, 119, 132, 147, 161, 178, 193	57.6 b	9.9 a-f
LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 158.4 b 11.5 a-g 166, 173, 182, 192 X7N68-R007 16 fl oz + Dyne-Amic 0.25% v/v 108, 122, 136, 150, 179, 194 60.8 b 9.7 a-f Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 61.6 b 11.0 a-f 166, 173, 182, 192 BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LPI-6724 12.8 fl oz + LI700 0.250 % v/v 105, 117, 138, 159, 166, 182 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 65.6 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	P18-16 1 oz + Embrece-EA 16 fl oz	105, 119, 132, 147, 161, 178, 193	57.6 b	12.1 a-g
166, 173, 182, 192 X7N68-R007 16 fl oz+ Dyne-Amic 0.25% v/v 108, 122, 136, 150, 179, 194 60.8 b 9.7 a-f Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 61.6 b 11.0 a-f 166, 173, 182, 192 BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LPI-6724 12.8 fl oz + LI700 0.250 % v/v 105, 117, 138, 159, 166, 182 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	AGS-Fun-2 0.5% v/v + Dyne-Amic 0.1% v/v	103, 110, 124, 138, 152, 166	57.6 b	13.2 a-g
X7N68-R007 16 fl oz+ Dyne-Amic 0.25% v/v 108, 122, 136, 150, 179, 194 60.8 b 9.7 a-f Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 166, 182 61.6 b 11.0 a-f BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LPI-6724 12.8 fl oz + LI700 0.250 % v/v 105, 117, 138, 159, 166, 182 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	LALSTOP-G46 3.5 oz + LALSTIM-OSMO 4.5 oz	103, 110, 117, 124, 131, 138, 145, 152, 159,	58.4 b	11.5 a-g
Serifel 6 oz 103, 110, 117, 124, 131, 138, 145, 152, 159, 166 b 11.0 a-f BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LPI-6724 12.8 fl oz + LI700 0.250 % v/v 105, 119, 132, 147, 161, 178, 193 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f		166, 173, 182, 192		
166, 173, 182, 192 BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LPI-6724 12.8 fl oz + LI700 0.250 % v/v 105, 117, 138, 159, 166, 182 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	X7N68-R007 16 fl oz+ Dyne-Amic 0.25% v/v	108, 122, 136, 150, 179, 194	60.8 b	9.7 a-f
BoostBiome BC18 70 oz 105, 119, 132, 147, 161, 178, 193 61.6 b 11.1 a-f LPI-6724 12.8 fl oz + LI700 0.250 % v/v 105, 117, 138, 159, 166, 182 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	Serifel 6 oz	103, 110, 117, 124, 131, 138, 145, 152, 159,	61.6 b	11.0 a-f
LPI-6724 12.8 fl oz + LI700 0.250 % v/v 105, 117, 138, 159, 166, 182 64.0 b 9.0 a-f Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g		166, 173, 182, 192		
Theia 3 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 64.8 b 5.7 a-e Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	BoostBiome BC18 70 oz	105, 119, 132, 147, 161, 178, 193	61.6 b	11.1 a-f
Regalia 2qt 105, 119, 132, 147, 161, 178, 193 65.6 b 6.25 a-f Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	LPI-6724 12.8 fl oz + LI700 0.250 % v/v	105, 117, 138, 159, 166, 182	64.0 b	9.0 a-f
Vintre 32 fl oz 108, 122, 136, 150, 165, 179, 194 66.4 b 11.9 a-g Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	Theia 3 lb + Kinetic 0.125% v/v	105, 119, 132, 147, 161, 178, 193	64.8 b	5.7 a-e
Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal 108, 122, 136, 150, 165, 179, 194 67.2 b 10.3 a-f Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	Regalia 2qt	105, 119, 132, 147, 161, 178, 193	65.6 b	6.25 a-f
Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 73.6 b 10.5 a-f X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	Vintre 32 fl oz	108, 122, 136, 150, 165, 179, 194	66.4 b	11.9 a-g
X7N68-R007 16 fl oz 108, 122, 136, 150, 179, 194 76.8 b 26.0 g Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	Milagrum plus 40 fl oz/100 gal + Oroboost 32 fl oz/100 gal	108, 122, 136, 150, 165, 179, 194	67.2 b	10.3 a-f
Howler 5lb + Kinetic 0.125% v/v 105, 119, 132, 147, 161, 178, 193 78.4 b 10.5 a-f P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	Howler 2.5 lb + Theia 1.5 lb + Kinetic 0.125% v/v	105, 119, 132, 147, 161, 178, 193	73.6 b	10.5 a-f
P18-16 2 oz + Embrece-EA 16 fl oz 105, 119, 132, 147, 161, 178, 193 80.0 b 19.2 e-g	X7N68-R007 16 fl oz	108, 122, 136, 150, 179, 194	76.8 b	26.0 g
-	Howler 5lb + Kinetic 0.125% v/v	105, 119, 132, 147, 161, 178, 193	78.4 b	10.5 a-f
Untreated Control Not Applicable 85.6 b 40.7 h	P18-16 2 oz + Embrece-EA 16 fl oz	105, 119, 132, 147, 161, 178, 193	80.0 b	19.2 e-g
	Untreated Control	Not Applicable	85.6 b	40.7 h

²Products with a '+' sign in between indicate a tank mix.

y Means followed by the same letter within a column are not significantly different according to Fisher's LSD test (α =0.05).