

Ohio State University Horticulture and Crop Science

Valor XLT rate changes vs Roundup

Trial ID: 09SOYYLD3 Protocol ID: 09SOYYLD3
 Location: Western Branch Study Director: Bryan Reeb
 Project ID: 09SOYYLD3 Investigator: Dr. Mark M. Loux
 Sponsor Contact: Eric Ott, Marsha Martin

Reps: 4

Plots: 10 by 40 feet

Spray vol: 20 gal/ac

Mix size: 3 liters (min 2.7808)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate Unit	Appl Code	Amt to Measure	Product	Plot No. 1	2	3	4
1	UTC									101	202	304	409
2	Valor XLT @ 3oz									102	203	302	401
	Valor SX	51	WG	0.056 lb ai/a	1.76 oz/a		A	1.974 g/mx					
	Classic	25	DF	0.0194 lb ai/a	1.24 oz/a			1.395 g/mx					
	Cobra	2	EC	0.125 lb ai/a	8 oz/a		C	9.374 ml/mx					
	Select Max	1	EC	0.0625 lb ai/a	8 oz/a			9.374 ml/mx					
	NIS	100	SL	0.25 % v/v	0.2 qt/a			7.499 ml/mx					
	N-PAK AMS	100	L	3.75 % v/v	3 qt/a			112.5 ml/mx					
3	Valor XLT @ 4oz									103	209	306	402
	Valor SX	51	WG	0.075 lb ai/a	2.35 oz/a		A	2.643 g/mx					
	Classic	25	DF	0.0258 lb ai/a	1.65 oz/a			1.855 g/mx					
	Cobra	2	EC	0.125 lb ai/a	8 oz/a		C	9.374 ml/mx					
	Select Max	1	EC	0.0625 lb ai/a	8 oz/a			9.374 ml/mx					
	NIS	100	SL	0.25 % v/v	0.2 qt/a			7.499 ml/mx					
	N-PAK AMS	100	L	3.75 % v/v	3 qt/a			112.5 ml/mx					
4	Valor XLT @ 5oz									104	206	305	408
	Valor SX	51	WG	0.093 lb ai/a	2.93 oz/a		A	3.278 g/mx					
	Classic	25	DF	0.0322 lb ai/a	2.06 oz/a			2.315 g/mx					
	Cobra	2	EC	0.125 lb ai/a	8 oz/a		C	9.374 ml/mx					
	Select Max	1	EC	0.0625 lb ai/a	8 oz/a			9.374 ml/mx					
	NIS	100	SL	0.25 % v/v	0.2 qt/a			7.499 ml/mx					
	N-PAK AMS	100	L	3.75 % v/v	3 qt/a			112.5 ml/mx					
5	Roundup Original Max	5.5	SL	0.95 lb ae/a	22 oz/a		B	25.91 ml/mx		105	201	307	406
	N-PAK AMS	100	L	3.75 % v/v	3 qt/a			112.5 ml/mx					
	Roundup Original Max	5.5	SL	0.95 lb ae/a	22 oz/a		C	25.91 ml/mx					
	N-PAK AMS	100	L	3.75 % v/v	3 qt/a			112.5 ml/mx					
6	Valor XLT@ 3oz									106	205	308	403
	Valor SX	51	WG	0.056 lb ai/a	1.76 oz/a		A	1.974 g/mx					
	Classic	25	DF	0.0194 lb ai/a	1.24 oz/a			1.395 g/mx					
	Roundup Power Max	4.5	SL	0.77 lb ae/a	22 oz/a		C	25.66 ml/mx					
	N-PAK AMS	100	L	2.5 % v/v	2 qt/a			74.99 ml/mx					
7	Canopy	75	DF	0.234 lb ai/a	5 oz/a		A	5.608 g/mx		107	208	310	407
	Sencor 75DF	75	DF	0.094 lb ai/a	2 oz/a			2.253 g/mx					
	Flexstar	1.88	EC	0.313 lb ai/a	1.33 pt/a		C	24.97 ml/mx					
	Assure II	0.88	EC	0.055 lb ai/a	8 oz/a			9.374 ml/mx					
	MSO	100	L	1 % v/v	0.8 qt/a			30.0 ml/mx					
8	Envive @ 5oz						A			108	210	309	410
	Classic	25	DF	0.0286 lb ai/a	1.83 oz/a			2.056 g/mx					
	Thifensulfuron	50	SG	0.009 lb ai/a	0.287 oz/a			0.3235 g/mx					
	Valor SX	51	WG	0.089 lb ai/a	2.8 oz/a			3.137 g/mx					
	Flexstar	1.88	EC	0.313 lb ai/a	1.33 pt/a		C	24.97 ml/mx					
	Assure II	0.88	EC	0.055 lb ai/a	8 oz/a			9.374 ml/mx					
	MSO	100	L	1 % v/v	0.8 qt/a			30.0 ml/mx					
9	Envive @ 3.5oz						A			109	207	301	404
	Classic	25	DF	0.02 lb ai/a	1.28 oz/a			1.438 g/mx					
	Thifensulfuron	50	SG	0.0065 lb ai/a	0.208 oz/a			0.2337 g/mx					
	Valor SX	51	WG	0.0625 lb ai/a	1.96 oz/a			2.203 g/mx					

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Appl Code	Amt to Measure	Product	Plot No. Rep.	1	2	3	4
	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	oz/a	C	25.66	ml/mx					
	Classic	25	DF	0.0078	lb ai/a	0.5	oz/a		0.5608	g/mx					
	N-PAK AMS	100	L	3.75	% v/v	3	qt/a		112.5	ml/mx					
10	Command	3	ME	1.13	lb ai/a	3	pt/a	A	56.49	ml/mx	110		204	303	405
	Flexstar	1.88	EC	0.313	lb ai/a	1.33	pt/a	C	24.97	ml/mx					
	Fusion	2.66	EC	0.166	lb ai/a	8	oz/a		9.36	ml/mx					
	MSO	100	L	1	% v/v	0.8	qt/a		30.0	ml/mx					
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a		74.99	ml/mx					

Sort Order: Replicate 1

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
19.009	g	Valor SX	51	WG	
13.768	g	Classic	25	DF	
35.152	ml	Cobra	2	EC	
35.152	ml	Select Max	1	EC	
28.122	ml	NIS	100	SL	
1,031.138	ml	N-PAK AMS	100	L	
64.766	ml	Roundup Original Max	5.5	SL	
64.160	ml	Roundup Power Max	4.5	SL	
7.010	g	Canopy	75	DF	
2.816	g	Sencor 75DF	75	DF	
93.640	ml	Flexstar	1.88	EC	
23.435	ml	Assure II	.88	EC	
112.488	ml	MSO	100	L	
0.696	g	Thifensulfuron	50	SG	
70.617	ml	Command	3	ME	
11.700	ml	Fusion	2.66	EC	

* 'Per area' calculations based on spray volume= 20 gal/ac, mix size= 3 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 20 gal/ac, mix size= 3 liters.