

Ohio State University Horticulture and Crop Science

Adjuvant Effect on Glyphosate and Flexstar in Glyphosate and ALS resistant Ragweed

Trial ID: 09ADJCLK Protocol ID: 09ADJCLK
 Location: Clarksburg Study Director: Bryan Reeb
 Project ID: 09ADJCLK Investigator: Dr. Mark M. Loux
 Sponsor Contact:

Reps: 3		Plots: 6.67 by 30 feet		Spray vol: 20 gal/ac		Mix size: 0.33 gallons (min .27562)					
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Unit	Appl Code	Amt to Measure	Product	Plot No. Rep. 1 2 3
1	Roundup Power Max Flexstar	4.5 1.88	SL EC	0.77 0.294	lb ae/a lb ai/a	22 20	oz/a oz/a	POST	10.69 9.767	ml/mx ml/mx	101 203 304
2	Roundup Power Max Flexstar N-PAK AMS	4.5 1.88 100	SL EC L	0.77 0.294 2.5	lb ae/a lb ai/a % v/v	22 20 2	oz/a oz/a qt/a		10.69 9.767 31.23	ml/mx ml/mx ml/mx	102 208 317
3	Roundup Power Max Flexstar Alliance	4.5 1.88 100	SL EC L	0.77 0.294 1.25	lb ae/a lb ai/a % v/v	22 20 1	oz/a oz/a qt/a		10.69 9.767 15.61	ml/mx ml/mx ml/mx	103 217 309
4	Roundup Power Max Flexstar Alliance Interlock	4.5 1.88 100 100	SL EC L L	0.77 0.294 1.25 0.156	lb ae/a lb ai/a % v/v % v/v	22 20 1 4	oz/a oz/a qt/a oz/a		10.69 9.767 15.61 1.949	ml/mx ml/mx ml/mx ml/mx	104 206 320
5	Roundup Power Max Flexstar Alliance Prime Oil	4.5 1.88 100 100	SL EC L L	0.77 0.294 1.25 1	lb ae/a lb ai/a % v/v % v/v	22 20 1 0.8	oz/a oz/a qt/a qt/a		10.69 9.767 15.61 12.49	ml/mx ml/mx ml/mx ml/mx	105 207 313
6	Roundup Power Max Flexstar Alliance Superb HC	4.5 1.88 100 100	SL EC L L	0.77 0.294 1.25 0.5	lb ae/a lb ai/a % v/v % v/v	22 20 1 0.4	oz/a oz/a qt/a qt/a		10.69 9.767 15.61 6.245	ml/mx ml/mx ml/mx ml/mx	106 202 319
7	Roundup Power Max Flexstar N-PAK AMS Superb HC	4.5 1.88 100 100	SL EC L L	0.77 0.294 2.5 0.5	lb ae/a lb ai/a % v/v % v/v	22 20 2 0.4	oz/a oz/a qt/a qt/a		10.69 9.767 31.23 6.245	ml/mx ml/mx ml/mx ml/mx	107 209 301
8	Roundup Power Max Flexstar Alliance Destiny HC	4.5 1.88 100 100	SL EC L L	0.77 0.294 1.25 0.5	lb ae/a lb ai/a % v/v % v/v	22 20 1 0.4	oz/a oz/a qt/a qt/a		10.69 9.767 15.61 6.245	ml/mx ml/mx ml/mx ml/mx	108 204 306
9	Flexstar GT Alliance	3.31 100	SL L	1.45 1.25	lb ae/a % v/v	3.5 1	pt/a qt/a		27.36 15.61	ml/mx ml/mx	109 215 302
10	Flexstar GT Alliance Destiny HC	3.31 100 100	SL L L	1.45 1.25 0.5	lb ae/a % v/v % v/v	3.5 1 0.4	pt/a qt/a qt/a		27.36 15.61 6.245	ml/mx ml/mx ml/mx	110 201 314
11	Roundup Power Max Flexstar Cobra Superb HC	4.5 1.88 2 100	SL EC EC L	0.77 0.294 0.156 0.5	lb ae/a lb ai/a lb ai/a % v/v	22 20 10 0.4	oz/a oz/a oz/a qt/a		10.69 9.767 4.871 6.245	ml/mx ml/mx ml/mx ml/mx	111 210 312
12	Roundup Power Max Flexstar N-PAK AMS Cobra Superb HC	4.5 1.88 100 2 100	SL EC L EC L	0.77 0.294 2.5 0.156 0.5	lb ae/a lb ai/a % v/v lb ai/a % v/v	22 20 2 10 0.4	oz/a oz/a qt/a oz/a qt/a		10.69 9.767 31.23 4.871 6.245	ml/mx ml/mx ml/mx ml/mx ml/mx	112 220 305
13	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	oz/a		10.69	ml/mx	113 216 310

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Trt No.	Treatment Name	Form	Form	Rate	Other Rate	Other Rate	Appl Unit	Code	Amt to Measure	Product	Plot No. Rep. 1	2	3
	Flexstar	1.88	EC	0.294	lb ai/a	20	oz/a		9.767	ml/mx			
	Alliance	100	L	1.25	% v/v	1	qt/a		15.61	ml/mx			
	Cobra	2	EC	0.156	lb ai/a	10	oz/a		4.871	ml/mx			
	Superb HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
14	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	oz/a		10.69	ml/mx	114	211	303
	Flexstar	1.88	EC	0.294	lb ai/a	20	oz/a		9.767	ml/mx			
	Alliance	100	L	1.25	% v/v	1	qt/a		15.61	ml/mx			
	Interlock	100	L	0.156	% v/v	4	oz/a		1.949	ml/mx			
	Cobra	2	EC	0.156	lb ai/a	10	oz/a		4.871	ml/mx			
	Superb HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
15	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	oz/a		10.69	ml/mx	115	205	316
	Flexstar	1.88	EC	0.294	lb ai/a	20	oz/a		9.767	ml/mx			
	Alliance	100	L	1.25	% v/v	1	qt/a		15.61	ml/mx			
	Prime Oil	100	L	1	% v/v	0.8	qt/a		12.49	ml/mx			
	Cobra	2	EC	0.156	lb ai/a	10	oz/a		4.871	ml/mx			
	Superb HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
16	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	oz/a		10.69	ml/mx	116	218	307
	Flexstar	1.88	EC	0.294	lb ai/a	20	oz/a		9.767	ml/mx			
	Alliance	100	L	1.25	% v/v	1	qt/a		15.61	ml/mx			
	Superb HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
	Cobra	2	EC	0.156	lb ai/a	10	oz/a		4.871	ml/mx			
	Superb HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
17	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	oz/a		10.69	ml/mx	117	212	315
	Flexstar	1.88	EC	0.294	lb ai/a	20	oz/a		9.767	ml/mx			
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a		31.23	ml/mx			
	Superb HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
	Cobra	2	EC	0.156	lb ai/a	10	oz/a		4.871	ml/mx			
	Superb HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
18	Roundup Power Max	4.5	SL	0.77	lb ae/a	22	oz/a		10.69	ml/mx	118	214	318
	Flexstar	1.88	EC	0.294	lb ai/a	20	oz/a		9.767	ml/mx			
	Alliance	100	L	1.25	% v/v	1	qt/a		15.61	ml/mx			
	Destiny HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
	Cobra	2	EC	0.156	lb ai/a	10	oz/a		4.871	ml/mx			
	Superb HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
19	Flexstar GT	3.31	SL	1.45	lb ae/a	3.5	pt/a		27.36	ml/mx	119	213	311
	Alliance	100	L	1.25	% v/v	1	qt/a		15.61	ml/mx			
	Cobra	2	EC	0.156	lb ai/a	10	oz/a		4.871	ml/mx			
	Superb HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
20	Flexstar GT	3.31	SL	1.45	lb ae/a	3.5	pt/a		27.36	ml/mx	120	219	308
	Alliance	100	L	1.25	% v/v	1	qt/a		15.61	ml/mx			
	Destiny HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			
	Cobra	2	EC	0.156	lb ai/a	10	oz/a		4.871	ml/mx			
	Superb HC	100	L	0.5	% v/v	0.4	qt/a		6.245	ml/mx			

Sort Order: Replicate 1

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

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Reps: 3 Plots: 6.67 by 30 feet
 Spray vol: 20 gal/ac Mix size: 0.33 gallons (min .27562)

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
253.800	ml	Roundup Power Max	4.5	SL	
195.330	ml	Flexstar	1.88	EC	
156.131	ml	N-PAK AMS	100	L	
273.230	ml	Alliance	100	L	
4.871	ml	Interlock	100	L	
31.226	ml	Prime Oil	100	L	
109.292	ml	Superb HC	100	L	
31.226	ml	Destiny HC	100	L	
136.792	ml	Flexstar GT	3.31	SL	
60.891	ml	Cobra	2	EC	

* 'Per area' calculations based on spray volume= 20 gal/ac, mix size= 0.33 gallons (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 20 gal/ac, mix size= 0.33 gallons.

* Adjusted for multiple applications in treatment list.

* One application was assumed for blank application codes or multipliers.