

Ohio State University
Horticulture and Crop Science

Adjuvant study on Giant Ragweed

Trial ID: 09PURDUEADJ Protocol ID: 09S-THP-CTS-47
Location: CLARKSBURG, OHIO Study Director: Chad Brabham/Paul Marquardt
Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact:

Reps: 4 Plots: 10 by 30 feet
Spray vol: 15 gal/ac Mix size: 1.8 liters (min 1.5642)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Amt to Measure	Product	Plot No. Rep. 1	2	3	4
1	NO ROUNDUP NO FLEXSTAR NO ADJUVANT Ammonium Sulfate	100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS A POSPOS A POSPOS A POSPOS A	A	36.67 g/mx		101	205	301	426
2	NO ROUNDUP NO FLEXSTAR Preference NIS Ammonium Sulfate	100	SL	0.5	% v/v	0.5	% v/v	POSPOS A POSPOS A POSPOS A POSPOS A	A	8.999 ml/mx 36.67 g/mx		102	207	326	409
3	NO ROUNDUP NO FLEXSTAR Superb HC (COC/NIS Blend) Ammonium Sulfate	100	L	0.5	% v/v	0.5	% v/v	POSPOS A POSPOS A POSPOS A POSPOS A	A	8.999 ml/mx 36.67 g/mx		103	209	302	415
4	NO ROUNDUP NO FLEXSTAR Outlook Ammonium Sulfate	6	EC	0.47	lb ai/a	10	oz/a	POSPOS A POSPOS A POSPOS A POSPOS A	A	9.399 ml/mx 36.67 g/mx		104	221	313	404
5	NO ROUNDUP Flexstar NO ADJUVANT Ammonium Sulfate	1.88	ME	0.176	lb ai/a	0.75	pt/a	POSPOS A POSPOS A POSPOS A POSPOS A	A	11.23 ml/mx 36.67 g/mx		105	204	320	414
6	NO ROUNDUP Flexstar Preference NIS Ammonium Sulfate	1.88	ME	0.176	lb ai/a	0.75	pt/a	POSPOS A POSPOS A POSPOS A POSPOS A	A	11.23 ml/mx 8.999 ml/mx 36.67 g/mx		106	202	307	405
7	NO ROUNDUP Flexstar Superb HC (COC/NIS Blend) Ammonium Sulfate	1.88	ME	0.176	lb ai/a	0.75	pt/a	POSPOS A POSPOS A POSPOS A POSPOS A	A	11.23 ml/mx 8.999 ml/mx 36.67 g/mx		107	222	303	411
8	NO ROUNDUP Flexstar Outlook Ammonium Sulfate	1.88	ME	0.176	lb ai/a	0.75	pt/a	POSPOS A POSPOS A POSPOS A POSPOS A	A	11.23 ml/mx 9.399 ml/mx 36.67 g/mx		108	218	324	423
9	NO ROUNDUP Flexstar NO ADJUVANT Ammonium Sulfate	1.88	ME	0.352	lb ai/a	1.5	pt/a	POSPOS A POSPOS A POSPOS A POSPOS A	A	22.47 ml/mx 36.67 g/mx		109	211	309	418
10	NO ROUNDUP Flexstar Preference NIS Ammonium Sulfate	1.88	ME	0.352	lb ai/a	1.5	pt/a	POSPOS A POSPOS A POSPOS A POSPOS A	A	22.47 ml/mx 8.999 ml/mx 36.67 g/mx		110	213	306	407
11	NO ROUNDUP Flexstar Superb HC (COC/NIS Blend) Ammonium Sulfate	1.88	ME	0.352	lb ai/a	1.5	pt/a	POSPOS A POSPOS A POSPOS A POSPOS A	A	22.47 ml/mx 8.999 ml/mx 36.67 g/mx		111	206	318	410
12	NO ROUNDUP							POSPOS A	A			112	223	325	401

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Spray vol: 15 gal/ac		Mix size: 1.8 liters (min 1.5642)												
Trt	Treatment	Form	Form	Rate	Rate	Other	Other	Growth	Appl	Amt Product	Plot No.			
No.	Name	Conc	Type	Unit	Unit	Rate	Rate	Stage	Code	to Measure	Rep. 1	2	3	4
	Flexstar	1.88	ME	0.352	lb ai/a	1.5	pt/a	POSPOS	A	22.47 ml/mx				
	Outlook	6	EC	0.47	lb ai/a	10	oz/a	POSPOS	A	9.399 ml/mx				
	Ammonium Sulfate	100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
13	Roundup PowerMAX NO FLEXSTAR NO ADJUVANT	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	113	203	314	424
	Ammonium Sulfate	100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
14	Roundup PowerMAX NO FLEXSTAR	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	114	212	311	406
	Preference NIS	100	SL	0.5	% v/v	0.5	% v/v	POSPOS	A	8.999 ml/mx				
	Ammonium Sulfate	100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
15	Roundup PowerMAX NO FLEXSTAR	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	115	219	317	408
	Superb HC (COC/NIS Blend)	100	L	0.5	% v/v	0.5	% v/v	POSPOS	A	8.999 ml/mx				
	Ammonium Sulfate	100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
16	Roundup PowerMAX NO FLEXSTAR	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	116	214	305	421
	Outlook	6	EC	0.47	lb ai/a	10	oz/a	POSPOS	A	9.399 ml/mx				
	Ammonium Sulfate	100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
17	Roundup PowerMAX Flexstar	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	117	208	322	417
	NO ADJUVANT	1.88	ME	0.176	lb ai/a	0.75	pt/a	POSPOS	A	11.23 ml/mx				
	Ammonium Sulfate	100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
18	Roundup PowerMAX Flexstar	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	118	201	321	413
	Preference NIS	1.88	ME	0.176	lb ai/a	0.75	pt/a	POSPOS	A	11.23 ml/mx				
	Ammonium Sulfate	100	SL	0.5	% v/v	0.5	% v/v	POSPOS	A	8.999 ml/mx				
		100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
19	Roundup PowerMAX Flexstar	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	119	210	308	420
	Superb HC (COC/NIS Blend)	1.88	ME	0.176	lb ai/a	0.75	pt/a	POSPOS	A	11.23 ml/mx				
	Ammonium Sulfate	100	L	0.5	% v/v	0.5	% v/v	POSPOS	A	8.999 ml/mx				
		100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
20	Roundup PowerMAX Flexstar	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	120	216	315	416
	Outlook	1.88	ME	0.176	lb ai/a	0.75	pt/a	POSPOS	A	11.23 ml/mx				
	Ammonium Sulfate	6	EC	0.47	lb ai/a	10	oz/a	POSPOS	A	9.399 ml/mx				
		100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
21	Roundup PowerMAX Flexstar	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	121	215	316	412
	NO ADJUVANT	1.88	ME	0.352	lb ai/a	1.5	pt/a	POSPOS	A	22.47 ml/mx				
	Ammonium Sulfate	100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
22	Roundup PowerMAX Flexstar	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	122	226	304	425
	Preference NIS	1.88	ME	0.352	lb ai/a	1.5	pt/a	POSPOS	A	22.47 ml/mx				
	Ammonium Sulfate	100	SL	0.5	% v/v	0.5	% v/v	POSPOS	A	8.999 ml/mx				
		100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				
23	Roundup PowerMAX Flexstar	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0 ml/mx	123	225	310	403
	Superb HC (COC/NIS Blend)	1.88	ME	0.352	lb ai/a	1.5	pt/a	POSPOS	A	22.47 ml/mx				
	Ammonium Sulfate	100	L	0.5	% v/v	0.5	% v/v	POSPOS	A	8.999 ml/mx				
		100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67 g/mx				

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Amt to Measure	Product	Plot No. Rep. 1	2	3	4
24	Roundup PowerMAX	4.5	L	0.75	lb ae/a	21.3	oz/a	POSPOS	A	20.0	ml/mx	124	220	319	422
	Flexstar	1.88	ME	0.352	lb ai/a	1.5	pt/a	POSPOS	A	22.47	ml/mx				
	Outlook	6	EC	0.47	lb ai/a	10	oz/a	POSPOS	A	9.399	ml/mx				
	Ammonium Sulfate	100	SG	17	lb/100 gal	17	lb/100 gal	POSPOS	A	36.67	g/mx				
25	Untreated											125	224	323	419
26	Untreated											126	217	312	402

Sort Order: Replicate 1