

MSU Weed Science Research Program

Tank-mixtures of Upbeet and glyphosate in Roundup Ready sugarbeet

Trial ID: SB02-11 Study Dir.: Sprague, Powell
Conducted: SVREC Investigator: Christy Sprague

Date Planted: 5/4/2011 Row Spacing: 30 IN
Variety: Hilleshog 9042 No. of Reps: 4
Population: 4 1/4" spacing % OM: 2.8
Soil Type: Clay Loam pH: 7.9
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall moldboard plow. Spring field cultivated (twice).
Fertilizer: Urea (125 lb/A of nitrogen) was broadcast and incorporated prior to planting.

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Lists weeds 1-3 and crop 1.

Application Description

Table with 4 columns: Application Timing, Date Treated, Time Treated, % Cloud Cover, Air Temp., Unit, % Relative Humidity, Wind Speed/Unit/Dir, Soil Temp., Unit, Soil/Leaf Surface M, Soil Moist (1=w 5=d).

Crop Stage at Each Application

Table with 4 columns: Crop Name, Height (In.), Stage (L). Lists crop stages for A, B, and C.

Weed Stage at Each Application

Table with 4 columns: Weed Name, Height (In.), Stage (L). Lists weed stages for Weed 1, 2, and 3.

Weed Density (plants/sq. ft.)

Table with 4 columns: Weed Name, Density. Lists densities for CHEAL, AMARE, and POLPY.

Application Equipment

Table with 11 columns: Appl, Sprayer Type, Speed MPH, Nozzle Type, Nozzle Size, Nozzle Height, Nozzle Spacing, Nozzle Width, GPA, Carrier, PSI. Lists equipment for applications A, B, and C.

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Tank-mixtures of Upbeet and glyphosate in Roundup Ready sugarbeet

Trial ID: SB02-11 Study Dir.: Sprague, Powell
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								CHEAL	AMARE	POLPY	CHEAL		
								BETVU			BETVU		
								injury	control	control	control	injury	control
								percent	percent	percent	percent	percent	percent
								6/9/2011	6/9/2011	6/9/2011	6/9/2011	6/14/2011	6/14/2011
								7 DA-A	7 DA-A	7 DA-A	7 DA-A	12 DA-A	12 DA-A
								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	0	99	99	86	0	97
1	AMS		WG	17	lb/100 gal	2" weeds	A						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
1	AMS		WG	17	lb/100 gal	+4" weed	C						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	10	98	99	93	0	98
2	Upbeet	50	WG	0.5	oz/a	2" weeds	A						
2	Destiny HC		L	1	pt/a	2" weeds	A						
2	AMS		WG	17	lb/100 gal	2" weeds	A						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
2	Upbeet	50	WG	0.5	oz/a	+4" weed	C						
2	Destiny HC		L	1	pt/a	+4" weed	C						
2	AMS		WG	17	lb/100 gal	+4" weed	C						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	13	99	99	96	0	99
3	Upbeet	50	WG	1	oz/a	2" weeds	A						
3	AMS		WG	17	lb/100 gal	2" weeds	A						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
3	Upbeet	50	WG	1	oz/a	+4" weed	C						
3	AMS		WG	17	lb/100 gal	+4" weed	C						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	14	99	99	99	0	99
4	Upbeet	50	WG	1	oz/a	2" weeds	A						
4	Destiny HC		L	1	pt/a	2" weeds	A						
4	AMS		WG	17	lb/100 gal	2" weeds	A						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
4	Upbeet	50	WG	1	oz/a	+4" weed	C						
4	Destiny HC		L	1	pt/a	+4" weed	C						
4	AMS		WG	17	lb/100 gal	+4" weed	C						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	30	95	99	90	13	97
5	Upbeet	50	WG	1	oz/a	2" weeds	A						
5	Stinger	3	L	2	fl oz/a	2" weeds	A						
5	Destiny HC		L	1	pt/a	2" weeds	A						
5	AMS		WG	17	lb/100 gal	2" weeds	A						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
5	Upbeet	50	WG	1	oz/a	+4" weed	C						
5	Stinger	3	L	2	fl oz/a	+4" weed	C						
5	Destiny HC		L	1	pt/a	+4" weed	C						
5	AMS		WG	17	lb/100 gal	+4" weed	C						
6	Untreated							0	0	0	0	0	0
7	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	0	88	99	90	0	93
7	AMS		WG	17	lb/100 gal	2" weeds	A						
7	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C						
7	AMS		WG	17	lb/100 gal	+4" weed	C						
8	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	15	96	99	96	0	97
8	Upbeet	50	WG	0.5	oz/a	2" weeds	A						
8	Destiny HC		L	1	pt/a	2" weeds	A						
8	AMS		WG	17	lb/100 gal	2" weeds	A						
8	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C						
8	Upbeet	50	WG	0.5	oz/a	+4" weed	C						
8	Destiny HC		L	1	pt/a	+4" weed	C						
8	AMS		WG	17	lb/100 gal	+4" weed	C						

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Tank-mixtures of Upbeet and glyphosate in Roundup Ready sugarbeet

Trial ID: SB02-11
Conducted: SVRECStudy Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code	CHEAL	AMARE	POLPY	CHEAL
Crop Code	BETVU			BETVU
Rating Data Type	injury	control	control	injury
Rating Unit	percent	percent	percent	percent
Rating Date	6/9/2011	6/9/2011	6/9/2011	6/14/2011
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	12 DA-A
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
9	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	20	90	99	87	1	96
9	Upbeet	50	WG	1	oz/a	2" weeds	A						
9	Destiny HC		L	1	pt/a	2" weeds	A						
9	AMS		WG	17	lb/100 gal	2" weeds	A						
9	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C						
9	Upbeet	50	WG	1	oz/a	+4" weed	C						
9	Destiny HC		L	1	pt/a	+4" weed	C						
9	AMS		WG	17	lb/100 gal	+4" weed	C						
10	Roundup PowerMax	4.5	SL	11	fl oz/a	6" weed	B	0	0	0	0	0	0
10	AMS		WG	17	lb/100 gal	6" weed	B						
11	Roundup PowerMax	4.5	SL	11	fl oz/a	6" weed	B	0	0	0	0	0	0
11	Upbeet	50	WG	0.5	oz/a	6" weed	B						
11	Destiny HC		L	1	pt/a	6" weed	B						
11	AMS		WG	17	lb/100 gal	6" weed	B						
12	Roundup PowerMax	4.5	SL	11	fl oz/a	6" weed	B	0	0	0	0	0	0
12	Upbeet	50	WG	1	oz/a	6" weed	B						
12	Destiny HC		L	1	pt/a	6" weed	B						
12	AMS		WG	17	lb/100 gal	6" weed	B						
LSD (P=.05)								4.7	5.7	0.0	8.5	1.6	3.4
Standard Deviation								3.2	3.9	0.0	5.9	1.1	2.3
CV								38.28	6.16	0.0	9.57	95.13	3.63

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

MSU Weed Science Research Program

Tank-mixtures of Upbeet and glyphosate in Roundup Ready sugarbeet

Trial ID: SB02-11
Conducted: SVREC

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code	AMARE	POLPY	BETVU	CHEAL	AMARE	POLPY
Crop Code						
Rating Data Type	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Rating Date	6/14/2011	6/14/2011	6/25/2011	6/25/2011	6/25/2011	6/25/2011
Trt-Eval Interval	12 DA-A	12 DA-A	5 DA-B	5 DA-B	5 DA-B	5 DA-B
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMARE	POLPY	BETVU	CHEAL	AMARE	POLPY
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	99	91	0	87	84	86
1	AMS		WG	17	lb/100 gal	2" weeds	A						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
1	AMS		WG	17	lb/100 gal	+4" weed	C						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	99	97	0	91	91	94
2	Upbeet	50	WG	0.5	oz/a	2" weeds	A						
2	Destiny HC		L	1	pt/a	2" weeds	A						
2	AMS		WG	17	lb/100 gal	2" weeds	A						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
2	Upbeet	50	WG	0.5	oz/a	+4" weed	C						
2	Destiny HC		L	1	pt/a	+4" weed	C						
2	AMS		WG	17	lb/100 gal	+4" weed	C						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	99	97	0	93	93	94
3	Upbeet	50	WG	1	oz/a	2" weeds	A						
3	AMS		WG	17	lb/100 gal	2" weeds	A						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
3	Upbeet	50	WG	1	oz/a	+4" weed	C						
3	AMS		WG	17	lb/100 gal	+4" weed	C						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	99	98	0	96	94	98
4	Upbeet	50	WG	1	oz/a	2" weeds	A						
4	Destiny HC		L	1	pt/a	2" weeds	A						
4	AMS		WG	17	lb/100 gal	2" weeds	A						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
4	Upbeet	50	WG	1	oz/a	+4" weed	C						
4	Destiny HC		L	1	pt/a	+4" weed	C						
4	AMS		WG	17	lb/100 gal	+4" weed	C						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	98	96	0	91	83	98
5	Upbeet	50	WG	1	oz/a	2" weeds	A						
5	Stinger	3	L	2	fl oz/a	2" weeds	A						
5	Destiny HC		L	1	pt/a	2" weeds	A						
5	AMS		WG	17	lb/100 gal	2" weeds	A						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
5	Upbeet	50	WG	1	oz/a	+4" weed	C						
5	Stinger	3	L	2	fl oz/a	+4" weed	C						
5	Destiny HC		L	1	pt/a	+4" weed	C						
5	AMS		WG	17	lb/100 gal	+4" weed	C						
6	Untreated							0	0	0	0	0	0
7	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	99	96	0	81	88	92
7	AMS		WG	17	lb/100 gal	2" weeds	A						
7	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C						
7	AMS		WG	17	lb/100 gal	+4" weed	C						
8	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	99	98	4	85	87	96
8	Upbeet	50	WG	0.5	oz/a	2" weeds	A						
8	Destiny HC		L	1	pt/a	2" weeds	A						
8	AMS		WG	17	lb/100 gal	2" weeds	A						
8	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C						
8	Upbeet	50	WG	0.5	oz/a	+4" weed	C						
8	Destiny HC		L	1	pt/a	+4" weed	C						
8	AMS		WG	17	lb/100 gal	+4" weed	C						

Tank-mixtures of Upbeet and glyphosate in Roundup Ready sugarbeet

Trial ID: SB02-11
Conducted: SVRECStudy Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code	AMARE	POLPY		CHEAL	AMARE	POLPY
Crop Code			BETVU			
Rating Data Type	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Rating Date	6/14/2011	6/14/2011	6/25/2011	6/25/2011	6/25/2011	6/25/2011
Trt-Eval Interval	12 DA-A	12 DA-A	5 DA-B	5 DA-B	5 DA-B	5 DA-B
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
9	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	99	89	0	82	78	89
9	Upbeet	50	WG	1	oz/a	2" weeds	A						
9	Destiny HC		L	1	pt/a	2" weeds	A						
9	AMS		WG	17	lb/100 gal	2" weeds	A						
9	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C						
9	Upbeet	50	WG	1	oz/a	+4" weed	C						
9	Destiny HC		L	1	pt/a	+4" weed	C						
9	AMS		WG	17	lb/100 gal	+4" weed	C						
10	Roundup PowerMax	4.5	SL	11	fl oz/a	6" weed	B	0	0	0	74	83	33
10	AMS		WG	17	lb/100 gal	6" weed	B						
11	Roundup PowerMax	4.5	SL	11	fl oz/a	6" weed	B	0	0	0	73	83	28
11	Upbeet	50	WG	0.5	oz/a	6" weed	B						
11	Destiny HC		L	1	pt/a	6" weed	B						
11	AMS		WG	17	lb/100 gal	6" weed	B						
12	Roundup PowerMax	4.5	SL	11	fl oz/a	6" weed	B	0	0	0	81	84	49
12	Upbeet	50	WG	1	oz/a	6" weed	B						
12	Destiny HC		L	1	pt/a	6" weed	B						
12	AMS		WG	17	lb/100 gal	6" weed	B						
LSD (P=.05)								0.8	5.2	1.1	8.6	7.2	13.5
Standard Deviation								0.6	3.6	0.7	6.0	5.0	9.4
CV								0.89	5.71	234.52	7.68	6.29	13.14

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

MSU Weed Science Research Program

Tank-mixtures of Upbeet and glyphosate in Roundup Ready sugarbeet

Trial ID: SB02-11 Study Dir.: Sprague, Powell
 Conducted: SVREC Investigator: Christy Sprague

								CHEAL	AMARE	POLPY	CHEAL		
								BETVU			BETVU		
								injury	control	control	control	injury	control
								percent	percent	percent	percent	percent	percent
								7/5/2011	7/5/2011	7/5/2011	7/5/2011	7/21/2011	7/21/2011
								10 DA-C	10 DA-C	10 DA-C	10 DA-C	26 DA-C	26 DA-C
								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	0	99	99	96	0	99
1	AMS		WG	17	lb/100 gal	2" weeds	A						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
1	AMS		WG	17	lb/100 gal	+4" weed	C						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	0	99	99	98	0	99
2	Upbeet	50	WG	0.5	oz/a	2" weeds	A						
2	Destiny HC		L	1	pt/a	2" weeds	A						
2	AMS		WG	17	lb/100 gal	2" weeds	A						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
2	Upbeet	50	WG	0.5	oz/a	+4" weed	C						
2	Destiny HC		L	1	pt/a	+4" weed	C						
2	AMS		WG	17	lb/100 gal	+4" weed	C						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	0	99	99	99	0	99
3	Upbeet	50	WG	1	oz/a	2" weeds	A						
3	AMS		WG	17	lb/100 gal	2" weeds	A						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
3	Upbeet	50	WG	1	oz/a	+4" weed	C						
3	AMS		WG	17	lb/100 gal	+4" weed	C						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	0	99	99	99	0	99
4	Upbeet	50	WG	1	oz/a	2" weeds	A						
4	Destiny HC		L	1	pt/a	2" weeds	A						
4	AMS		WG	17	lb/100 gal	2" weeds	A						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
4	Upbeet	50	WG	1	oz/a	+4" weed	C						
4	Destiny HC		L	1	pt/a	+4" weed	C						
4	AMS		WG	17	lb/100 gal	+4" weed	C						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	0	99	99	99	0	99
5	Upbeet	50	WG	1	oz/a	2" weeds	A						
5	Stinger	3	L	2	fl oz/a	2" weeds	A						
5	Destiny HC		L	1	pt/a	2" weeds	A						
5	AMS		WG	17	lb/100 gal	2" weeds	A						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
5	Upbeet	50	WG	1	oz/a	+4" weed	C						
5	Stinger	3	L	2	fl oz/a	+4" weed	C						
5	Destiny HC		L	1	pt/a	+4" weed	C						
5	AMS		WG	17	lb/100 gal	+4" weed	C						
6	Untreated							0	0	0	0	0	0
7	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	0	99	99	98	0	99
7	AMS		WG	17	lb/100 gal	2" weeds	A						
7	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C						
7	AMS		WG	17	lb/100 gal	+4" weed	C						
8	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	0	99	99	99	0	99
8	Upbeet	50	WG	0.5	oz/a	2" weeds	A						
8	Destiny HC		L	1	pt/a	2" weeds	A						
8	AMS		WG	17	lb/100 gal	2" weeds	A						
8	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C						
8	Upbeet	50	WG	0.5	oz/a	+4" weed	C						
8	Destiny HC		L	1	pt/a	+4" weed	C						
8	AMS		WG	17	lb/100 gal	+4" weed	C						

MSU Weed Science Research Program

Tank-mixtures of Upbeet and glyphosate in Roundup Ready sugarbeet

Trial ID: SB02-11 Study Dir.: Sprague, Powell
Conducted: SVREC Investigator: Christy Sprague

Table with columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec., Trt No., Treatment Name, Form Conc, Form Type, Rate, Rate Unit, Grow Stg, Appl Code, CHEAL injury percent, CHEAL control percent, AMARE control percent, POLPY control percent, BETVU injury percent, BETVU control percent. Includes summary statistics at the bottom like LSD, Standard Deviation, and CV.

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Trial ID: SB02-11 Study Dir.: Sprague, Powell
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Weed Code	AMARE	POLPY	BETVU	CHEAL	AMARE	POLPY
Crop Code						
Rating Data Type	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Rating Date	7/21/2011	7/21/2011	9/12/2011	9/12/2011	9/12/2011	9/12/2011
Trt-Eval Interval	26 DA-C	26 DA-C	79 DA-C	79 DA-C	79 DA-C	79 DA-C
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMARE	POLPY	BETVU	CHEAL	AMARE	POLPY
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	99	99	0	99	99	99
1	AMS		WG	17	lb/100 gal	2" weeds	A						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
1	AMS		WG	17	lb/100 gal	+4" weed	C						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	99	99	0	99	99	99
2	Upbeet	50	WG	0.5	oz/a	2" weeds	A						
2	Destiny HC		L	1	pt/a	2" weeds	A						
2	AMS		WG	17	lb/100 gal	2" weeds	A						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
2	Upbeet	50	WG	0.5	oz/a	+4" weed	C						
2	Destiny HC		L	1	pt/a	+4" weed	C						
2	AMS		WG	17	lb/100 gal	+4" weed	C						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	99	99	0	99	99	99
3	Upbeet	50	WG	1	oz/a	2" weeds	A						
3	AMS		WG	17	lb/100 gal	2" weeds	A						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
3	Upbeet	50	WG	1	oz/a	+4" weed	C						
3	AMS		WG	17	lb/100 gal	+4" weed	C						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	99	99	0	99	99	99
4	Upbeet	50	WG	1	oz/a	2" weeds	A						
4	Destiny HC		L	1	pt/a	2" weeds	A						
4	AMS		WG	17	lb/100 gal	2" weeds	A						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
4	Upbeet	50	WG	1	oz/a	+4" weed	C						
4	Destiny HC		L	1	pt/a	+4" weed	C						
4	AMS		WG	17	lb/100 gal	+4" weed	C						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	99	99	0	99	99	99
5	Upbeet	50	WG	1	oz/a	2" weeds	A						
5	Stinger	3	L	2	fl oz/a	2" weeds	A						
5	Destiny HC		L	1	pt/a	2" weeds	A						
5	AMS		WG	17	lb/100 gal	2" weeds	A						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C						
5	Upbeet	50	WG	1	oz/a	+4" weed	C						
5	Stinger	3	L	2	fl oz/a	+4" weed	C						
5	Destiny HC		L	1	pt/a	+4" weed	C						
5	AMS		WG	17	lb/100 gal	+4" weed	C						
6	Untreated							0	0	0	0	0	0
7	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	99	99	0	99	99	99
7	AMS		WG	17	lb/100 gal	2" weeds	A						
7	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C						
7	AMS		WG	17	lb/100 gal	+4" weed	C						
8	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	99	99	0	99	99	99
8	Upbeet	50	WG	0.5	oz/a	2" weeds	A						
8	Destiny HC		L	1	pt/a	2" weeds	A						
8	AMS		WG	17	lb/100 gal	2" weeds	A						
8	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C						
8	Upbeet	50	WG	0.5	oz/a	+4" weed	C						
8	Destiny HC		L	1	pt/a	+4" weed	C						
8	AMS		WG	17	lb/100 gal	+4" weed	C						

MSU Weed Science Research Program

Tank-mixtures of Upbeet and glyphosate in Roundup Ready sugarbeet

Trial ID: SB02-11 Study Dir.: Sprague, Powell
Conducted: SVREC Investigator: Christy Sprague

Table with 7 columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec. and 6 treatment columns (AMARE, POLPY, BETVU, CHEAL, AMARE, POLPY) with corresponding control/injury percent and dates.

Main data table with columns: Trt No., Treatment Name, Form Conc, Form Type, Rate, Rate Unit, Grow Stg, Appl Code, and 6 treatment columns (AMARE, POLPY, BETVU, CHEAL, AMARE, POLPY) showing results for various treatments like Roundup PowerMax, Upbeet, Destiny HC, and AMS.

Summary statistics table with 7 columns: LSD (P=.05), Standard Deviation, CV, and 6 treatment columns (AMARE, POLPY, BETVU, CHEAL, AMARE, POLPY).

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

MSU Weed Science Research Program

Tank-mixtures of Upbeet and glyphosate in Roundup Ready sugarbeet

Trial ID: SB02-11 Study Dir.: Sprague, Powell
 Conducted: SVREC Investigator: Christy Sprague

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Subsamples, Dec.

BETVU count 100' row 9/15/2011 105 DA-A 0	BETVU % sugar 9/15/2011 105 DA-A 1	BETVU yield ton/acre 9/15/2011 105 DA-A 1	BETVU RWST #/ ton 9/15/2011 105 DA-A 0	BETVU RWSA #/ acre 9/15/2011 105 DA-A 0
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	223	19.1	22.4	278	6218
1	AMS		WG	17	lb/100 gal	2" weeds	A					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C					
1	AMS		WG	17	lb/100 gal	+4" weed	C					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	233	19.2	22.6	279	6290
2	Upbeet	50	WG	0.5	oz/a	2" weeds	A					
2	Destiny HC		L	1	pt/a	2" weeds	A					
2	AMS		WG	17	lb/100 gal	2" weeds	A					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C					
2	Upbeet	50	WG	0.5	oz/a	+4" weed	C					
2	Destiny HC		L	1	pt/a	+4" weed	C					
2	AMS		WG	17	lb/100 gal	+4" weed	C					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	232	19.2	20.6	277	5693
3	Upbeet	50	WG	1	oz/a	2" weeds	A					
3	AMS		WG	17	lb/100 gal	2" weeds	A					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C					
3	Upbeet	50	WG	1	oz/a	+4" weed	C					
3	AMS		WG	17	lb/100 gal	+4" weed	C					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	216	19.5	19.0	282	5348
4	Upbeet	50	WG	1	oz/a	2" weeds	A					
4	Destiny HC		L	1	pt/a	2" weeds	A					
4	AMS		WG	17	lb/100 gal	2" weeds	A					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C					
4	Upbeet	50	WG	1	oz/a	+4" weed	C					
4	Destiny HC		L	1	pt/a	+4" weed	C					
4	AMS		WG	17	lb/100 gal	+4" weed	C					
5	Roundup PowerMax	4.5	SL	22	fl oz/a	2" weeds	A	240	18.9	21.3	275	5835
5	Upbeet	50	WG	1	oz/a	2" weeds	A					
5	Stinger	3	L	2	fl oz/a	2" weeds	A					
5	Destiny HC		L	1	pt/a	2" weeds	A					
5	AMS		WG	17	lb/100 gal	2" weeds	A					
5	Roundup PowerMax	4.5	SL	22	fl oz/a	+4" weed	C					
5	Upbeet	50	WG	1	oz/a	+4" weed	C					
5	Stinger	3	L	2	fl oz/a	+4" weed	C					
5	Destiny HC		L	1	pt/a	+4" weed	C					
5	AMS		WG	17	lb/100 gal	+4" weed	C					
6	Untreated							219	19.6	16.1	288	4618
7	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	222	19.4	20.4	283	5768
7	AMS		WG	17	lb/100 gal	2" weeds	A					
7	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C					
7	AMS		WG	17	lb/100 gal	+4" weed	C					
8	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	214	19.1	20.0	276	5528
8	Upbeet	50	WG	0.5	oz/a	2" weeds	A					
8	Destiny HC		L	1	pt/a	2" weeds	A					
8	AMS		WG	17	lb/100 gal	2" weeds	A					
8	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C					
8	Upbeet	50	WG	0.5	oz/a	+4" weed	C					
8	Destiny HC		L	1	pt/a	+4" weed	C					
8	AMS		WG	17	lb/100 gal	+4" weed	C					

MSU Weed Science Research Program

Tank-mixtures of Upbeet and glyphosate in Roundup Ready sugarbeet

Trial ID: SB02-11 Study Dir.: Sprague, Powell
 Conducted: SVREC Investigator: Christy Sprague

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Subsamples, Dec.

BETVU count 100' row	BETVU % sugar	BETVU yield ton/acre	BETVU RWST # / ton	BETVU RWSA # / acre
9/15/2011	9/15/2011	9/15/2011	9/15/2011	9/15/2011
105 DA-A	105 DA-A	105 DA-A	105 DA-A	105 DA-A
0	1	1	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
9	Roundup PowerMax	4.5	SL	11	fl oz/a	2" weeds	A	218	19.5	21.0	281	5929
9	Upbeet	50	WG	1	oz/a	2" weeds	A					
9	Destiny HC		L	1	pt/a	2" weeds	A					
9	AMS		WG	17	lb/100 gal	2" weeds	A					
9	Roundup PowerMax	4.5	SL	11	fl oz/a	+4" weed	C					
9	Upbeet	50	WG	1	oz/a	+4" weed	C					
9	Destiny HC		L	1	pt/a	+4" weed	C					
9	AMS		WG	17	lb/100 gal	+4" weed	C					
10	Roundup PowerMax	4.5	SL	11	fl oz/a	6" weed	B	221	19.5	21.3	285	6049
10	AMS		WG	17	lb/100 gal	6" weed	B					
11	Roundup PowerMax	4.5	SL	11	fl oz/a	6" weed	B	219	19.3	20.1	279	5634
11	Upbeet	50	WG	0.5	oz/a	6" weed	B					
11	Destiny HC		L	1	pt/a	6" weed	B					
11	AMS		WG	17	lb/100 gal	6" weed	B					
12	Roundup PowerMax	4.5	SL	11	fl oz/a	6" weed	B	225	18.5	19.7	267	5274
12	Upbeet	50	WG	1	oz/a	6" weed	B					
12	Destiny HC		L	1	pt/a	6" weed	B					
12	AMS		WG	17	lb/100 gal	6" weed	B					
LSD (P=.05)								18.6	1.07	2.98	17.9	875.5
Standard Deviation								12.9	0.74	2.07	12.4	606.3
CV								5.76	3.86	10.15	4.45	10.67

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.