Weed resistant managment systems in Roundup Ready sugarbeet

Trial ID: SB01-12 Study Dir.: Sprague, Powell Conducted: SVREC Investigator: Christy Sprague

Date Planted: Apr/04/2012 30" Row Spacing: ΙN No. of Reps: % OM: Vari ety: Hilleshog 9173 4 2. 2 Popul ati on: 48,000 seeds/A Clay loam

Soil Type: Plot Size: pH: Desi gn: 10 **X** 30 RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel; spring soil finished twice Previous crop: Wheat

Fertilizer: Preplant urea: 125 lb actual N/A

Crop and Weed Description

Common Name Scientific Name Weed Code CHENOPODI UM ALBUM L. AMBROSI A ARTEMI SI I FOLI A L. 1. CHEAL LAMBSQUARTERS, COMMON AMBEL RAGWEĚD, COMMON Crop Code Common Name BETVU BEET, SUGAR

Application Description C 2 LEAF D Ε В Application Timing: PPI PRE 4 LEAF 6 LEAF Apr/04/2012 Apr/04/2012 May/15/2012 May/24/2012 Jun/04/2012 Date Treated: Time Treated: 6: 45 PM 10: 45 AM 5: 05 PM 10: 45 AM 12: 00 PM % Cloud Cover:
Air Temp., Unit:
% Relative Humidity:
Wind Speed/Unit/Dir:
Soil Temp., Unit:
Soil/Leaf Surface M: ŏ 0 80 10 50 50 F 52 F 82 F 63 F 82 F 51. 3 9 mph N 36 3 42 70 45 mph NE 12 mph S 9 mph N 10 mph E 53 44. 5 F 64 F 74 F 69 F F 5 5 5 5 5 5 5 5 5 5 2 Soil Moist (1=w 5=d):

Crop Stage at Each Application
B C D E BETVU BETVU BETVU BETVU BETVU Crop Name:

Height (In.): Stage (L): 1. 25" 3. 5" 3 6

Weed Stage at Each Application CHEAL CHEAL CHEAL CHEAL Weed 1 Name: Height (In.): Stage (L): Weed 2 Name: 1.5" 1.5" AMBEL AMBEL AMBEL AMBEL 1. 5" Height (In.): 1. 5" 1. 5" 6 7 Stage (L):

Weed Density (plants/sq. ft.)

Jul /09/2012 Date: Weed Name: CHEAL Densi ty: 12 Jul /09/2012 Date: Weed Name: **AMAPO** Densi ty: <1 Jul /09/2012 Date:

Weed Name: AMBEL Densi ty:

Application Equipment Appl Sprayer Speed Nozzle Nozzle Nozzle Nozzle Type MPH Type Size Height Spacing Boom Height Spacing Width GPA Carrier PSI 3.8 AirMix 11003 20" Cub 20' 100" 19 Water 28 20" 100" 20" 28 B Ai rMi x 11003 Cub 3.8 19 Water 20" 20" 100" Cub 3.8 AirMix 11003 19 Water 28 20" 22" 20" 100" D Cub 3.8 AirMix 11003 19 Water 28 20" E Cub 3.8 AirMix 11003 100" 19 Water 28

Incorporated "A" to 2" depth immediately after spraying Comments:

MSU Weed Science Research Program Weed resistant managment systems in Roundup Ready sugarbeet

Study Dir.: Sprague, Powell Investigator: Christy Sprague Trial ID: SB01-12 Conducted: SVREC

C R R R T A	reed Code rop Code ating Data Type ating Unit ating Date rt-Eval Interval RM Action Codes Subsamples, Dec.							BETVU injury percent May/22/2012 7 DA-C	CHEAL control percent May/22/2012 7 DA-C	AMBEL control percent May/22/2012 7 DA-C	BETVU injury percent May/30/2012 6 DA-D
Т	rt Treatment o. Name		Form Type		Rate Unit	Grow A	Appl Code				
1	Roundup PowerMax AMS Roundup PowerMax		SL	17 22	fl oz/a lb/100 gal fl oz/a	6-leaf I	C E	0	57	57	0
2	AMS Roundup PowerMax AMS Roundup PowerMax		SL		lb/100 gal fl oz/a lb/100 gal fl oz/a	2-leaf	C C	0	68	63	4
3	AMS	6		17 2	lb/100 gal qt/a fl oz/a		E A	18	35	38	11
4	AMS	6		17 2	lb/100 gal qt/a fl oz/a pt/a		D A D	16	28	36	11
5	AMS Nortron Roundup PowerMax	4	WG L SL	17 3 33	lb/100 gal pt/a fl oz/a	4-leaf I PRE I 4-leaf I	D B D	10	38	20	3
6	AMS Nortron Roundup PowerMax Betamix	4 4.5 1.3	WG L SL L	17 3 33 3	lb/100 gal pt/a fl oz/a pt/a	4-leaf I PRE I 2-leaf (2-leaf (B C	13	93	80	1
	AMS Roundup PowerMax AMS	4.5	WG SL WG	17 22 17	lb/100 gal fl oz/a lb/100 gal	2-leaf (6-leaf l 6-leaf l	C E E				
7	AMS Roundup PowerMax	4.5	SL	17	lb/100 gal fl oz/a	6-leaf I	C E	0	43	43	0
8	Stinger AMS Roundup PowerMax AMS	3 4.5	SL	17	fl oz/a lb/100 gal fl oz/a lb/100 gal	2-leaf	E C	0	40	43	0
	Roundup PowerMax Outlook AMS	4.5 6	SL L	22 16 17	fl oz/a fl oz/a lb/100 gal	6-leaf l 6-leaf l	E E				
9	Roundup PowerMax AMS Roundup PowerMax	4.5	SL	17 22	lb/100 gal fl oz/a	6-leaf I	C E	0	38	38	0
1	Warrant AMS Roundup PowerMax AMS	3 4.5	SL	3 17 22 17	pt/a lb/100 gal fl oz/a lb/100 gal	2-leaf	E C	0	38	35	0
	Roundup PowerMax Dual Magnum AMS	7.62	SL L WG	22 1.33 17	fl oz/a pt/a lb/100 gal	6-leaf 6-leaf 6-leaf	E E E				
1	1 Roundup PowerMax AMS Roundup PowerMax	4.5	SL	17 22	fl oz/a lb/100 gal fl oz/a	6-leaf	C E	3	75	57	3
	Stinger AMS	3	L WG	4 17	fl oz/a lb/100 gal	6-leaf l 6-leaf l					

Cro Rat Rat Rat Trt- AR	ed Code p Code ing Data Type ing Unit ing Date Eval Interval M Action Codes							7 DA-C	CHEAL control percent May/22/2012 7 DA-C	7 DA-C	6 DA-D
	ubsamples, Dec.	F	C		Data	0	۸ ا	0	0	0	0
	Treatment		Form			Grow					
		Conc				Stg		0	00	50	0
12	Roundup PowerMax	4.5	SL			2-leaf		3	68	58	0
	AMS	4 5		17	lb/100 gal fl oz/a						
	Roundup PowerMax	4.5 6	SL L			6-leaf 6-leaf					
	Outlook AMS	O		17	lb/100 gal						
12	Roundup PowerMax	15	SL	33		2-leaf		1	50	50	0
13	AMS	4.5			lb/100 gal			1	50	50	O
	Roundup PowerMax	15	SL	22	fl oz/a	6-leaf					
	Warrant	3	L	3		6-leaf					
	AMS	Ü	WG	17	lb/100 gal						
14	Roundup PowerMax	4.5	SL	33		2-leaf		1	53	51	0
	AMS			17	lb/100 gal						
	Roundup PowerMax	4.5	SL	22		6-leaf					
	Dual Magnum	7.62		1.33		6-leaf					
	AMS		WG	17	ib/100 gal	6-leaf	Е				
15	Roundup PowerMax	4.5	SL	22		2-leaf		8	79	68	0
	Betamix	1.3	L	3	pt/a	2-leaf	С				
	AMS		WG	17	lb/100 gal	2-leaf	С				
	Roundup PowerMax	4.5	SL	22		6-leaf					
	AMS			17	lb/100 gal						
16	Roundup PowerMax		SL			2-leaf		10	79	66	0
	Betamix	1.3	L	3	•	2-leaf					
	AMS	4.5		17	lb/100 gal						
	Roundup PowerMax AMS	4.5	SL WG	22 17		6-leaf					
17	Roundup PowerMax	15	SL		lb/100 gal fl oz/a	2-leaf		9	76	63	0
17	Betamix		L	2		2-leaf		9	70	00	0
	AMS	1.0	WG	17	lb/100 gal						
	Roundup PowerMax	4.5	SL			6-leaf					
	AMS			17	lb/100 gal	6-leaf	Е				
18	Roundup PowerMax	4.5	SL	22		2-leaf		15	59	88	6
	Stinger	3	L	4	fl oz/a	2-leaf	С				
	AMS		WG	17	lb/100 gal	2-leaf	С				
	Roundup PowerMax	4.5	SL			6-leaf					
	AMS		WG	17	lb/100 gal			_			
19	Roundup PowerMax	4.5	SL			2-leaf		0	45	45	0
	AMS	4.5		17	lb/100 gal						
	Roundup PowerMax		SL			6-leaf					
	Stinger Dual Magnum	3 7.62	L	4 1.33		6-leaf 6-leaf					
	AMS	1.02	WG	1.33	lb/100 gal						
20	Untreated		***	.,	ioi ioo gai	JIGAI	_	0	0	0	0
	D (P=.05)							3.9	11.5	11.0	4.8
CV								52.77	15.43	15.61	176.66
- '											

	ed Code p Code							CHEAL	AMBEL	BETVU	CHEAL	AMARE
Rat Rat Rat Trt-	ing Data Type ing Unit ing Date Eval Interval M Action Codes							control percent May/30/2012 6 DA-D	control percent May/30/2012 6 DA-D	injury percent	control percent Jun/13/2012 9 DA-E	control percent Jun/13/2012 9 DA-E
# S	ubsamples, Dec.							0	0	0	0	0
	Treatment Name		Form Type		Rate Unit	Grow Stg	Appl Code					
1	Roundup PowerMax AMS			17	fl oz/a lb/100 gal		С	59	69	0	99	99
	Roundup PowerMax AMS			22 17	fl oz/a lb/100 gal		E					
2	Roundup PowerMax AMS			33 17	fl oz/a lb/100 gal		С	73	84	0	99	99
	Roundup PowerMax AMS			22 17	fl oz/a lb/100 gal		E					
3	Ro-Neet Roundup PowerMax	6 4.5	SL	2 33	qt/a fl oz/a	PPI 4-leaf	D	95	93	18	99	99
4	AMS Ro-Neet	6	WG EC	17 2	lb/100 gal qt/a	PPI	Α	75	98	20	94	99
	Roundup PowerMax Warrant AMS	3	SL L WG	33 3 17	fl oz/a pt/a lb/100 gal	4-leaf	D					
5	Nortron Roundup PowerMax	4	L SL	3 33	pt/a fl oz/a	PRE 4-leaf	В	96	90	0	99	99
6	AMS Nortron	4.5	WG L	17 3	lb/100 gal pt/a		D	94	86	0	99	99
Ū	Roundup PowerMax Betamix		SL L	33 3	fl oz/a pt/a	2-leaf 2-leaf	С					
	AMS Roundup PowerMax		WG SL	17 22	lb/100 gal fl oz/a		С					
7	AMS Roundup PowerMax	4.5	WG SL	17 22	lb/100 gal fl oz/a	2-leaf	С	73	87	1	99	99
	AMS Roundup PowerMax		WG SL	17 22	lb/100 gal fl oz/a	6-leaf	Е					
	Stinger AMS	3		4 17	fl oz/a lb/100 gal		E					
8	Roundup PowerMax AMS			22 17	fl oz/a lb/100 gal		С	60	81	0	99	99
	Roundup PowerMax Outlook AMS	4.5 6	SL L WG		fl oz/a fl oz/a lb/100 gal	6-leaf	Е					
9	Roundup PowerMax AMS	4.5	SL	22 17	fl oz/a lb/100 gal	2-leaf	С	65	76	0	98	99
	Roundup PowerMax Warrant	4.5 3	SL L	22 3	fl oz/a pt/a	6-leaf 6-leaf	Е					
10	AMS Roundup PowerMax	4.5	WG SL	17 22	lb/100 gal fl oz/a	6-leaf 2-leaf		58	74	0	99	99
	AMS Roundup PowerMax		SL	17 22	lb/100 gal fl oz/a	6-leaf	E					
	Dual Magnum AMS	7.62	WG	1.33 17	ib/100 gal		Е					
11	Roundup PowerMax AMS			17	fl oz/a lb/100 gal		С	86	93	0	99	99
	Roundup PowerMax Stinger AMS	4.5 3	SL L WG	22 4 17	fl oz/a fl oz/a	6-leaf 6-leaf	E					
12	Roundup PowerMax AMS	4.5	SL	33 17	lb/100 gal fl oz/a lb/100 gal	2-leaf	С	88	87	0	99	99
	Roundup PowerMax Outlook	4.5 6	SL L	22	fl oz/a fl oz/a	6-leaf 6-leaf	Е					
	AMS			17	lb/100 gal	6-leaf	Е					

	ed Code							CHEAL	AMBEL		CHEAL	AMARE
Rat Rat Rat	p Code ing Data Type ing Unit ing Date							•	control percent May/30/2012			
	Eval Interval M Action Codes							6 DA-D	6 DA-D	9 DA-E	9 DA-E	9 DA-E
	ubsamples, Dec.							0	0	0	0	0
	Treatment		Form		Rate	Grow						
No. 13	Name Roundup PowerMax		Type SL	Rate 33	Unit fl oz/a	Stg 2-leaf	Code	70	82	0	98	99
13	AMS	4.5		33 17	lb/100 gal			70	02	U	90	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	Warrant	3	L	3	pt/a	6-leaf						
	AMS		WG	17	ib/100 gal	6-leaf	E					
14	Roundup PowerMax	4.5	SL	33	fl oz/a	2-leaf		75	86	0	99	99
	AMS		_	17	lb/100 gal							
	Roundup PowerMax		SL	22	fl oz/a	6-leaf						
	Dual Magnum AMS	7.62		1.33 17	lb/100 gal	6-leaf						
15	Roundup PowerMax	45	SL	22	fl oz/a	2-leaf		76	71	0	99	99
10	Betamix	1.3	L	3	pt/a	2-leaf	-	70	, ,	O	33	55
	AMS	1.0		17	lb/100 gal							
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	AMS		WG	17	lb/100 gal	6-leaf	E					
16	Roundup PowerMax		SL	33	fl oz/a	2-leaf		76	80	0	99	99
	Betamix	1.3	L	3	pt/a	2-leaf						
	AMS	4.5	_	17	lb/100 gal							
	Roundup PowerMax AMS	4.5	SL WG	22	fl oz/a	6-leaf						
17	Roundup PowerMax	15	SL	17 22	lb/100 gal fl oz/a	2-leaf		63	74	0	99	99
.,	Betamix	1.3	L	2	pt/a	2-leaf		00	7-7	O	33	33
	AMS			17	lb/100 gal		-					
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	AMS			17	lb/100 gal							
18	Roundup PowerMax		SL	22	fl oz/a	2-leaf	С	64	96	0	99	99
	Stinger	3	L	4	fl oz/a	2-leaf						
	AMS	4.5		17	lb/100 gal							
	Roundup PowerMax AMS	4.5	SL WG	22 17	fl oz/a	6-leaf						
10	Roundup PowerMax	15	SL	22	lb/100 gal fl oz/a	2-leaf		54	79	1	99	99
13	AMS	4.5		17	lb/100 gal			J-1	13	•	33	33
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	Stinger	3	Ĺ	4	fl oz/a	6-leaf						
	Dual Magnum	7.62	L	1.33	pt/a	6-leaf	Ε					
	AMS		WG	17	lb/100 gal	6-leaf	E					
	Untreated							0	0	0	0	0
	O (P=.05)							12.8	14.2	3.0	2.1	0.0
CV								12.94	12.71	105.76	1.59	0.0

	ed Code							AMBEL		CHEAL	AMARE	AMBEL
	op Code ting Data Type							control	BETVU injury	control	control	control
	ting Unit							percent	percent	percent	percent	percent
	ting Date							Jun/13/2012				
	Eval Interval M Action Codes							9 DA-E	37 DA-E	37 DA-E	37 DA-E	37 DA-E
	ubsamples, Dec.							0	0	0	0	0
	Treatment		Form		Rate	Grow						
No	Name	Conc	Type	Rate	Unit	Stg	Code					
1	Roundup PowerMax AMS	4.5	SL WG	22 17	fl oz/a lb/100 gal	2-leaf		94	0	99	99	98
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
_	AMS			17	lb/100 gal				•			••
2	Roundup PowerMax AMS	4.5	SL WG	33 17	fl oz/a lb/100 gal	2-leaf		98	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	AMS		WG	17	lb/100 gal	6-leaf	E					
3	Ro-Neet	6	L	2	qt/a	PPI /		99	0	99	99	98
	Roundup PowerMax AMS	4.5	SL WG	33 17	fl oz/a lb/100 gal	4-leaf						
4	Ro-Neet	6	EC	2	qt/a	PPI		99	0	99	99	98
	Roundup PowerMax		SL	33	fl oz/a	4-leaf			-			
	Warrant	3	L	3	pt/a	4-leaf						
5	AMS Nortron	4	WG L	17 3	lb/100 gal pt/a	4-lear PRE		99	0	98	99	98
3	Roundup PowerMax		SL	33	fl oz/a	4-leaf		99	U	30	33	90
	AMS		WG	17	lb/100 gal							
6	Nortron	4	L	3	pt/a	PRE I		95	0	99	99	99
	Roundup PowerMax Betamix	4.5 1.3	SL L	33 3	fl oz/a pt/a	2-leaf (
	AMS	1.3		3 17	lb/100 gal							
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	E					
_	AMS			17	lb/100 gal							
7	Roundup PowerMax AMS	4.5	SL WG	22 17	fl oz/a lb/100 gal	2-leaf		95	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	Stinger	3	Ĺ	4	fl oz/a	6-leaf						
_	AMS			17	lb/100 gal				_			
8	Roundup PowerMax AMS	4.5	SL WG	22 17	fl oz/a lb/100 gal	2-leaf	-	92	0	99	99	97
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	Outlook	6	L		fl oz/a	6-leaf	E					
	AMS	4 -		17	lb/100 gal			0.5	•	00	00	00
9	Roundup PowerMax AMS	4.5	SL WG	22 17	fl oz/a lb/100 gal	2-leaf		95	0	99	99	96
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	Warrant	3	L	3	pt/a	6-leaf	E					
40	AMS Roundup RowerMey	1 =		17	lb/100 gal			00	0	00	00	00
10	Roundup PowerMax AMS	4.5	SL WG	22 17	fl oz/a lb/100 gal	2-leaf		90	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	Dual Magnum	7.62		1.33	•	6-leaf						
11	AMS Poundup PowerMay	15	WG SL	17 33	lb/100 gal			99	0	99	99	99
11	Roundup PowerMax AMS	4.0		33 17	fl oz/a lb/100 gal	2-leaf		3 3	0	3 3	3 3	33
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	Stinger	3	L	4	fl oz/a	6-leaf						
40	AMS Roundup RowerMey	1 F		17	lb/100 gal			00	0	00	99	00
۱Z	Roundup PowerMax AMS	4.5	SL WG	33 17	fl oz/a lb/100 gal	2-leaf		99	0	99	33	98
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	Outlook	6	L	16	fl oz/a	6-leaf						
	AMS		WG	17	lb/100 gal	6-leaf	E					

	ed Code							AMBEL	DET (1)	CHEAL	AMARE	AMBEL
Rat Rat Rat Trt-	op Code ting Data Type ting Unit ting Date Eval Interval M Action Codes							control percent Jun/13/2012 9 DA-E	BETVU injury percent Jul/11/2012 37 DA-E	control percent Jul/11/2012 37 DA-E	control percent Jul/11/2012 37 DA-E	control percent Jul/11/2012 37 DA-E
	ubsamples, Dec.							0	0	0	0	0
	Treatment		Form		Rate	Grow						
	Name Roundup PowerMax		Type SL		Unit fl oz/a	Stg 2-leaf	Code	96	0	99	99	99
13	AMS	4.5		17	lb/100 gal			90	U	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	Warrant	3	L	3	pt/a	6-leaf						
	AMS		WG	17	ib/100 gal	6-leaf	E					
14		4.5	SL	33	fl oz/a	2-leaf		97	0	99	99	99
	AMS			17	lb/100 gal							
	Roundup PowerMax		SL	22 1.33	fl oz/a	6-leaf 6-leaf						
	Dual Magnum AMS	7.62		1.33	lb/100 gal							
15	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf		91	0	99	99	99
	Betamix	1.3	Ĺ	3	pt/a	2-leaf	-		-			
	AMS		WG	17	ib/100 gal							
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	AMS		_	17	lb/100 gal				_			
16	Roundup PowerMax		SL	33	fl oz/a	2-leaf		97	0	99	99	99
	Betamix AMS	1.3	L WG	3 17	pt/a lb/100 gal	2-leaf						
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	AMS	1.0		17	lb/100 gal							
17	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf		87	0	98	99	97
	Betamix	1.3	L	2	pt/a	2-leaf	С					
	AMS			17	lb/100 gal							
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
10	AMS Roundup RowerMey	1 5	WG SL	17 22	lb/100 gal fl oz/a	6-leaf		99	0	97	99	98
10	Roundup PowerMax Stinger	3	L	4	fl oz/a	2-leaf		99	U	91	99	90
	AMS	J		17	lb/100 gal							
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf						
	AMS			17	lb/100 gal	6-leaf	E					
19	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf		92	0	99	99	99
	AMS			17	lb/100 gal							
	Roundup PowerMax		SL	22	fl oz/a	6-leaf						
	Stinger Dual Magnum	3 7.62	L	4 1.33	fl oz/a	6-leaf 6-leaf						
	AMS	1.02	WG		lb/100 gal							
20	Untreated					3 .541	_	0	0	0	0	0
	O (P=.05)							7.3	0.0	1.6	0.2	2.5
CV								5.69	0.0	1.22	0.12	1.91

Cro Rat Rat	ed Code p Code ing Data Type ing Unit							CHEAL control percent	AMARE control percent	AMBEL control percent	BETVU count 100' row
Trt-	ing Date Eval Interval M Action Codes							95 DA-E	95 DA-E	95 DA-E	Sep/11/2012 160 DA-A T1
	ubsamples, Dec.				Data	0	A I	0	0	0	0
	Treatment Name		Form Type		Rate Unit	Grow Stg	Code				
1	Roundup PowerMax AMS	4.5	SL WG		fl oz/a lb/100 gal	2-leaf 2-leaf		96	99	94	426
	Roundup PowerMax AMS	4.5	SL WG		fl oz/a lb/100 gal	6-leaf					
2	Roundup PowerMax	4.5	SL	33	fl oz/a	2-leaf	С	98	99	95	433
	AMS Roundup PowerMax	4.5	WG SL		lb/100 gal fl oz/a	2-leaf 6-leaf					
•	AMS		WG	17	lb/100 gal	6-leaf	Е	00	0.5	00	440
3	Ro-Neet Roundup PowerMax	6 4.5	L SL	2 33	qt/a fl oz/a	PPI 4-leaf		89	95	92	442
4	AMS	6	WG EC		lb/100 gal			00	00	0.4	445
4	Ro-Neet Roundup PowerMax	6 4.5	SL	2 33	qt/a fl oz/a	PPI 4-leaf		90	99	94	415
	Warrant AMS	3	L WG	3 17	pt/a lb/100 gal	4-leaf					
5	Nortron	4	L	3	pt/a	PRE	В	93	99	93	440
	Roundup PowerMax AMS	4.5	SL WG		fl oz/a lb/100 gal	4-leaf					
6	Nortron	4	L	3	pt/a	PRE	В	95	99	96	440
	Roundup PowerMax Betamix	4.5 1.3	SL L	33 3	fl oz/a pt/a	2-leaf 2-leaf					
	AMS			17	ib/100 gal	2-leaf	С				
	Roundup PowerMax AMS	4.5	SL WG		fl oz/a lb/100 gal	6-leaf 6-leaf					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	С	96	98	99	428
	AMS Roundup PowerMax	4.5	WG SL		lb/100 gal fl oz/a	2-lear 6-leaf					
	Stinger AMS	3	L WG		fl oz/a lb/100 gal	6-leaf					
8	Roundup PowerMax	4.5	SL		fl oz/a	2-leaf		96	99	96	430
	AMS Roundup PowerMax	15	WG SL		lb/100 gal fl oz/a						
	Outlook	6	L	16	fl oz/a	6-leaf	Е				
9	AMS Roundup PowerMax	4.5	WG SL		lb/100 gal fl oz/a	6-leaf 2-leaf		92	99	93	412
Ů	AMS		WG	17	lb/100 gal	2-leaf	С	02			
	Roundup PowerMax Warrant	4.5 3	SL L	22 3	fl oz/a pt/a	6-leaf 6-leaf					
40	AMS			17	ib/100 gal	6-leaf	Е	0.5	00	04	400
10	Roundup PowerMax AMS	4.5	SL WG		fl oz/a lb/100 gal	2-leaf 2-leaf		95	99	91	436
	Roundup PowerMax		SL		fl oz/a	6-leaf					
	Dual Magnum AMS	7.62		1.33 17	lb/100 gal	6-leaf 6-leaf					
11	Roundup PowerMax AMS	4.5	SL WG		fl oz/a lb/100 gal	2-leaf		99	98	99	444
	Roundup PowerMax	4.5	SL		fl oz/a	6-leaf					
	Stinger AMS	3	L WG	4 17	fl oz/a lb/100 gal	6-leaf					
12	Roundup PowerMax	4.5	SL	33	fl oz/a	2-leaf	С	98	99	93	439
	AMS Roundup PowerMax	4.5	WG SL		lb/100 gal fl oz/a	2-leaf 6-leaf					
	Outlook	6	L	16	fl oz/a	6-leaf	Е				
	AMS		WG	17	lb/100 gal	6-leaf	E				

	ed Code							CHEAL	AMARE	AMBEL	<i>u</i> .
Rat Rat	p Code ing Data Type ing Unit							control percent	control percent	control percent	BETVU count 100' row
Trt-	ing Date Eval Interval M Action Codes							Sep/07/2012 95 DA-E	Sep/07/2012 95 DA-E	Sep/07/2012 95 DA-E	Sep/11/2012 160 DA-A T1
	ubsamples, Dec.							0	0	0	0
	Treatment	Form	Form		Rate	Grow	Appl				
	Name		Type				Code				
13	Roundup PowerMax	4.5	SL	33	fl oz/a	2-leaf		92	99	94	432
	AMS	1 E	WG SL	17 22	lb/100 gal						
	Roundup PowerMax Warrant	4.5 3	SL L	3	fl oz/a pt/a	6-leaf 6-leaf					
	AMS	3		3 17	lb/100 gal						
14	Roundup PowerMax	4.5	SL	33	fl oz/a	2-leaf		94	99	97	435
	AMS		WG	17	lb/100 gal	2-leaf	С				
	Roundup PowerMax		SL	22	fl oz/a	6-leaf					
	Dual Magnum	7.62		1.33		6-leaf					
4.5	AMS	4.5		17 22	lb/100 gal			0.4	00	0.5	450
15	Roundup PowerMax Betamix	4.5 1.3	SL L	3	fl oz/a pt/a	2-leaf 2-leaf		94	98	95	452
	AMS	1.3		3 17	lb/100 gal		-				
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf					
	AMS		_	17	lb/100 gal						
16	Roundup PowerMax	4.5	SL	33	fl oz/a	2-leaf		96	98	94	459
	Betamix	1.3	L	3	pt/a	2-leaf	-				
	AMS	4.5		17	lb/100 gal						
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf					
17	AMS Roundup PowerMax	15	WG SL	17 22	lb/100 gal fl oz/a	6-leaf		88	99	92	416
17	Betamix	1.3	L	2	pt/a	2-leaf		00	99	32	410
	AMS			_ 17	lb/100 gal		-				
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf					
	AMS			17	lb/100 gal						
18	Roundup PowerMax		SL	22	fl oz/a	2-leaf		90	96	95	417
	Stinger	3	L	4	fl oz/a	2-leaf	-				
	AMS Poundup PowerMay	15	WG SL	17 22	lb/100 gal fl oz/a	2-lear 6-leaf					
	Roundup PowerMax AMS	4.5	_	17	lb/100 gal						
19	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf		98	99	99	436
	AMS			17	lb/100 gal						
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf					
	Stinger	3	L	4	fl oz/a	6-leaf					
	Dual Magnum	7.62		1.33		6-leaf					
20	AMS		WG	17	lb/100 gal	6-leaf	E	0	0	0	100
	Untreated							0	2.7	7.5	123
CV	O (P=.05)							6.0 4.77	2.7	7.5 5.9	49.2 8.33
υv									2.00	0.0	0.00

We	ed Code										
	p Code ing Data Type							BETVU % sugar	BETVU yield	BETVU RWST	BETVU RWSA
	ing Unit							% sugar	ton/acre	# / ton	# / acre
	ing Date										Sep/11/2012
	Eval Interval M Action Codes							160 DA-A	160 DA-A TY3	160 DA-A	160 DA-A T2
	ubsamples, Dec.							1	1	0	0
	Treatment Name		Form Type		Rate	Grow Stg	Appl Code				
INO.	Name	Conc	туре	Nate	Offic	Sig	Code				
1	Roundup PowerMax	4.5	SL		fl oz/a	2-leaf	-	16.1	23.3	235	5494
	AMS Roundup PowerMax	4.5	WG SL	17 22	lb/100 gal fl oz/a	2-lear 6-leaf					
	AMS		WG	17	lb/100 gal	6-leaf	E				
2	Roundup PowerMax AMS	4.5	SL WG	33 17	fl oz/a lb/100 gal	2-leaf		16.2	23.4	236	5522
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf					
•	AMS	•		17	lb/100 gal			40.4	04.4	000	5040
3	Ro-Neet Roundup PowerMax	6 4.5	L SL	2 33	qt/a fl oz/a	PPI 4-leaf		16.4	24.4	238	5816
	AMS		WG	17	lb/100 gal						
4	Ro-Neet	6	EC	2	qt/a	PPI		16.2	22.4	237	5311
	Roundup PowerMax Warrant	4.5 3	SL L	33 3	fl oz/a pt/a	4-leaf 4-leaf					
	AMS		WG	17	ib/100 gal	4-leaf	D				
5	Nortron Roundup PowerMax	4	L SL	3 33	pt/a fl oz/a	PRE 4-leaf		15.5	23.3	224	5198
	AMS	4.5		33 17	lb/100 gal						
6	Nortron	4	L	3	pt/a	PRE	В	16.1	23.8	235	5610
	Roundup PowerMax Betamix	4.5 1.3	SL L	33 3	fl oz/a pt/a	2-leaf 2-leaf					
	AMS	1.5	WG	17	lb/100 gal						
	Roundup PowerMax	4.5	SL		fl oz/a	6-leaf	E				
7	AMS Roundup PowerMax	4.5	WG SL	17 22	lb/100 gal fl oz/a	6-leaf 2-leaf		16.5	22.9	242	5557
•	AMS		WG	17	lb/100 gal			10.0	22.0		
	Roundup PowerMax	4.5 3	SL L		fl oz/a fl oz/a	6-leaf 6-leaf					
	Stinger AMS	3		4 17	lb/100 gal						
8	Roundup PowerMax	4.5	SL		fl oz/a	2-leaf	С	16.2	22.4	234	5250
	AMS Roundup PowerMax	15	WG SL	17 22	lb/100 gal fl oz/a						
	Outlook	6	L		fl oz/a	6-leaf					
•	AMS	4.5		17	lb/100 gal			45.7	04.7	000	4004
9	Roundup PowerMax AMS	4.5	SL WG		fl oz/a lb/100 gal	2-leaf 2-leaf		15.7	21.7	228	4994
	Roundup PowerMax		SL	22	fl oz/a	6-leaf	E				
	Warrant AMS	3	L WG	3 17	pt/a lb/100 gal	6-leaf					
10	Roundup PowerMax	4.5	SL	22	_	2-leaf		15.8	23.6	229	5427
	AMS		WG	17	lb/100 gal	2-leaf	С				
	Roundup PowerMax Dual Magnum	4.5 7.62	SL ı	22 1.33		6-leaf 6-leaf					
	AMS	1.02		17	lb/100 gal						
11	Roundup PowerMax	4.5	SL		fl oz/a	2-leaf		15.9	23.9	230	5530
	AMS Roundup PowerMax	4.5	WG SL	17 22	lb/100 gal fl oz/a	2-leaf 6-leaf					
	Stinger	3	L		fl oz/a	6-leaf	E				
40	AMS Boundup BowerMey	1 5		17	lb/100 gal			1 <i>E E</i>	24.1	222	F242
12	Roundup PowerMax AMS	4.5	SL WG	33 17	fl oz/a lb/100 gal	2-leaf 2-leaf		15.5	24.1	222	5343
	Roundup PowerMax		SL	22	fl oz/a	6-leaf	E				
	Outlook	6	L		fl oz/a	6-leaf					
	AMS		WG	17	lb/100 gal	o-ieaī					

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	ed Code p Code							BETVU	BETVU	BETVU	BETVU
	ing Data Type							% sugar	vield	RWST	RWSA
	ing Unit							70 Sugai	ton/acre	# / ton	# / acre
	ing Date							Sep/11/2012			Sep/11/2012
	Eval Interval							160 DA-A	160 DA-A	160 DA-A	160 DA-A
	M Action Codes								TY3		T2
# S	ubsamples, Dec.							1	1	0	0
Trt	Treatment	Form	Form		Rate	Grow	Appl				
No.	Name	Conc	Туре	Rate	Unit	Stg	Code				
13	Roundup PowerMax	4.5	SL	33	fl oz/a	2-leaf		15.6	22.7	226	5141
	AMS			17	lb/100 gal						
	Roundup PowerMax		SL	22	fl oz/a	6-leaf					
	Warrant	3	L	3	pt/a	6-leaf					
	AMS	4.5	WG	17	lb/100 gal			10.4	00.7	000	5500
14	Roundup PowerMax	4.5	SL	33	fl oz/a	2-leaf		16.1	23.7	233	5530
	AMS Roundup PowerMax	1 5	WG SL	17 22	lb/100 gal fl oz/a	2-leaf					
	Dual Magnum	7.62	_	1.33		6-leaf					
	AMS	7.02		17	lb/100 gal						
15	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf		16.6	24.6	244	6010
	Betamix	1.3	L	3	pt/a	2-leaf					
	AMS			17	lb/100 gal						
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf	E				
	AMS		WG	17	lb/100 gal	6-leaf	Е				
16	Roundup PowerMax	4.5	SL	33	fl oz/a	2-leaf	С	16.2	24.5	235	5787
	Betamix	1.3	L	3	pt/a	2-leaf	С				
	AMS		_	17	lb/100 gal						
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf					
47	AMS	4.5	_	17	lb/100 gal			45.7	00.5	007	5440
17	Roundup PowerMax		SL	22	fl oz/a	2-leaf		15.7	22.5	227	5118
	Betamix AMS	1.3	L WG	2 17	pt/a lb/100 gal	2-leaf	-				
	Roundup PowerMax	15	SL	22	fl oz/a	6-leaf					
	AMS	4.5		17	lb/100 gal						
18	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf		15.9	22.7	232	5250
	Stinger	3	L	4	fl oz/a	2-leaf		.0.0		202	0200
	AMS	_		17	lb/100 gal						
	Roundup PowerMax	4.5	SL	22	fl oz/a	6-leaf					
	AMS		WG	17	lb/100 gal	6-leaf	E				
19	Roundup PowerMax	4.5	SL	22	fl oz/a	2-leaf	С	15.9	22.8	234	5340
	AMS			17	lb/100 gal						
	Roundup PowerMax		SL	22	fl oz/a	6-leaf					
	Stinger	3	L	4	fl oz/a	6-leaf					
	Dual Magnum	7.62		1.33		6-leaf					
20	AMS		WG	17	lb/100 gal	o-ieat		16.0	2.1	232	715
	Untreated							16.0	3.1		715
CV	O (P=.05)							0.56 2.46	3.00 9.51	9.9 3.0	769.5 10.47
٠v								Z. 4 U	J.J I	3.0	10.47