

**University of Minnesota 2016 Statewide Soybean Weed Management at Rochester, MN.**

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The objective of this trial was to evaluate herbicide systems for weed control and crop response in soybeans in southeastern Minnesota. The research site was a loamy sand series with pH of 6.5, O.M. 2.1% and soil test P and K levels of 27 ppm and 124 ppm, respectively. The field was fall chisel plowed, spring disked and field cultivated once prior to planting. The previous crop was corn. The soybean variety was ASGROW AG1935 and was planted on May 17, 2016 at a depth of 1.5 inches in 30-inch rows at a rate of 165,000 seeds per acre. A randomized complete block design was used with four replications. Preemergence (PRE) treatments were applied with a tractor-mounted sprayer delivering 15 gpa at 30 psi with a ground speed of 4.5 mph using TTI 11002 nozzles. Postemergence (POST) treatments were applied at 15 gpa, 30 psi and ground speed of 4.5 MPH. When contact materials were applied as part of the treatment TTJ60 11002 nozzles were used. Systemic materials were applied with TTI 11002 nozzles. Evaluations of the plots were taken June 6, 10, 16, 22, 28, July 11 and September 27. The center two rows of each plot were machine harvested on October 10, 2016. Application dates, environmental conditions, and weed stages can be found in Table 1. Performance rating for giant ragweed, common lambsquarters, common waterhemp, grass control, and crop injury can be found in Tables 2 through 6, respectively. (University of Minnesota Extension Regional Office, Rochester.)

**Table 1. Application timing, plant stages, environmental conditions.**

Date	5/18	6/10	6/14	6/17	6/24
<b>Treatment</b>	PRE A	POST I B	POST II C	POST III D	POST IV E
<b>Temperature (F)</b>					
Air	64	83	73	75	64
Soil	59.7	73.7	73.9	73.7	65.1
<b>Relative Humidity (%)</b>	30	69	81	73	90
<b>Wind (mph)</b>	0	16	14	12	7
<b>Soil Moisture</b>	Normal	Normal	Normal	Normal	Normal
<b>Soybean</b>					
Stage		V2	V2	V3	V4-V5
Height (in)	0	5.3	6.9	8.0	10.0
<b>Giant Ragweed</b>					
Weed Density (ft <sup>2</sup> )				10.5	
Height (in)		4.2	4.0	4.5	2.5
<b>Common Lambsquarter</b>					
Weed Density (ft <sup>2</sup> )				1.5	
Height (in)		1.0	1.4	2.0	0.8
<b>Common Waterhemp</b>					
Weed Density (ft <sup>2</sup> )				2.0	
Height (in)		0.8	1.5	1.8	2.3
<b>Grass</b>					
Weed Density (ft <sup>2</sup> )				10.5	
Height (in)	0	1.9	2.8	2.5	2.1
<b>Rainfall after each application (in)</b>					
Week 1	0.56	2.82	1.64	1.69	0.78
Week 2	1.47	0.28	0.05	0.78	1.63
Week 3	1.32	0.78	1.95	1.63	1.15



**Table 2 (continued). Giant ragweed control with soybean herbicide systems at Rochester, MN in 2016.**

Pest Code				AMBTR							YIELD						
				Giant Ragweed							13%						
Pest Name				June-10	June-16	June-22	June-28	July-11	Sept-27	Oct-10							
Rating Date										Percent Control (%)							BU/A
Treatment	Rate	Appl															
<b>PRE (5/18/16) / POST III (6/17/16) 4 inch weeds</b>																	
5	SOA 2 / 9, 14, 15			84	bc	91	efg	98	a-d	99	b	99	bc	98	abc	52.0	efg
	AUTHORITY FIRST	6.4	oz wt/a														
	ROUNDUP POWERMAX	32	fl oz/a														
	WARRANT ULTRA	48	fl oz/a														
	MISO	1	% v/v														
	N-Pa-K AMS	1.5	qt/a														
8	SOA 2, 14 / 9			78	cd	91	efg	96	d-g	97	e-h	98	bcd	98	bcd	62.8	a
	AUTHORITY FIRST	6.4	oz wt/a														
	ROUNDUP POWERMAX	32	fl oz/a														
	N-Pa-K AMS	1.5	qt/a														
10	SOA 2, 14 / 9, 14, 15			81	c	91	efg	96	c-g	98	b-e	98	bc	98	bcd	61.6	a
	AUTHORITY FIRST	6.4	oz wt/a														
	ROUNDUP POWERMAX	32	fl oz/a														
	ANTHEM MAXX	2.5	fl oz/a														
	N-Pa-K AMS	1.5	qt/a														
11	SOA 2, 15, 14 / 9			79	cd	91	efg	97	b-f	98	bcd	98	bc	98	abc	60.0	abc
	FIERCE	3	oz wt/a														
	FIRSTRATE	0.3	oz wt/a														
	ROUNDUP POWERMAX	32	fl oz/a														
	N-Pa-K AMS	1.5	qt/a														
<b>PRE (5/18/16) / POST IV (6/24/16) 4 inch weeds</b>																	
17	SOA 2, 14 / 9			89	b	94	bcd	93	hi	96	ghi	99	b	99	ab	60.5	ab
	SURVEIL	2.8	oz wt/a														
	DURANGO DMA	32	fl oz/a														
	N-Pa-K AMS	1.5	qt/a														
<b>POST I (6/10/16) 2 inch weeds / POST IV (6/24/16) 4 inch weeds</b>																	
21	SOA 9, 14 / 9			0	k	97	ab	95	fgh	98	b-f	98	bc	99	abc	59.4	abc
	ROUNDUP POWERMAX	32	fl oz/a														
	COBRA	8	fl oz/a														
	COC	1	pt/a														
	N-Pa-K AMS	1.5	qt/a														
	ROUNDUP POWERMAX	32	fl oz/a														
	N-Pa-K AMS	1.5	qt/a														
22	SOA 9, 14, 15 / 9			0	k	92	def	92	i	97	fgh	98	bcd	98	bcd	54.2	d-g
	ROUNDUP POWERMAX	32	fl oz/a														
	ANTHEM MAXX	3	fl oz/a														
	N-Pa-K AMS	1.5	qt/a														
	ROUNDUP POWERMAX	32	fl oz/a														
	N-Pa-K AMS	1.5	qt/a														
<b>LSD P=10</b>				<b>6.0</b>		<b>3.1</b>		<b>2.4</b>		<b>1.0</b>		<b>1.2</b>		<b>1.8</b>		<b>4.5</b>	



**Table 3 (continued). Common lambsquarters control with soybean herbicide systems at Rochester, MN in 2016.**

Pest Code				CHEAL						YIELD							
Pest Name				Common Lambsquarters						Oct-10							
Rating Date				June-10	June-16	June-22	June-28	July-11	Sept-27	BU/A							
Treatment	Rate	Appl		Percent Control (%)													
<b>PRE (5/18/16) / POST III (6/17/16) 4 inch weeds</b>																	
5	SOA 2 / 9, 14, 15			99	b	99	b	99	b	99	b	99	b	52.0	efg		
	AUTHORITY FIRST	6.4	oz wt/a	A													
	ROUNDUP POWERMAX	32	fl oz/a	D													
	WARRANT ULTRA	48	fl oz/a	D													
	MSO	1	% v/v	D													
	N-Pa-K AMS	1.5	qt/a	D													
8	SOA 2, 14 / 9			99	b	99	b	99	b	99	b	99	b	62.8	a		
	AUTHORITY FIRST	6.4	oz wt/a	A													
	ROUNDUP POWERMAX	32	fl oz/a	D													
	N-Pa-K AMS	1.5	qt/a	D													
10	SOA 2, 14 / 9, 14, 15			99	b	99	b	99	b	99	b	99	b	61.6	a		
	AUTHORITY FIRST	6.4	oz wt/a	A													
	ROUNDUP POWERMAX	32	fl oz/a	D													
	ANTHEM MAXX	2.5	fl oz/a	D													
	N-Pa-K AMS	1.5	qt/a	D													
11	SOA 2, 15, 14 / 9			99	b	99	b	99	b	99	b	99	b	60.0	abc		
	FIERCE	3	oz wt/a	A													
	FIRSTRATE	0.3	oz wt/a	A													
	ROUNDUP POWERMAX	32	fl oz/a	D													
	N-Pa-K AMS	1.5	qt/a	D													
<b>PRE (5/18/16) / POST IV (6/24/16) 4 inch weeds</b>																	
17	SOA 2, 14 / 9			99	b	99	b	99	b	99	b	99	b	60.5	ab		
	SURVEIL	2.8	oz wt/a	A													
	DURANGO DMA	32	fl oz/a	E													
	N-Pa-K AMS	1.5	qt/a	E													
<b>POST I (6/10/16) 2 inch weeds / POST IV (6/24/16) 4 inch weeds</b>																	
21	SOA 9, 14 / 9			0	c	99	b	96	d	97	e	98	c	98	c	59.4	abc
	ROUNDUP POWERMAX	32	fl oz/a	B													
	COBRA	8	fl oz/a	B													
	COC	1	pt/a	B													
	N-Pa-K AMS	1.5	qt/a	B													
	ROUNDUP POWERMAX	32	fl oz/a	E													
	N-Pa-K AMS	1.5	qt/a	E													
22	SOA 9, 14, 15 / 9			0	c	99	c	95	e	98	d	99	b	99	b	54.2	d-g
	ROUNDUP POWERMAX	32	fl oz/a	B													
	ANTHEM MAXX	3	fl oz/a	B													
	N-Pa-K AMS	1.5	qt/a	B													
	ROUNDUP POWERMAX	32	fl oz/a	E													
	N-Pa-K AMS	1.5	qt/a	E													
<b>LSD P=.10</b>				<b>0.5</b>	<b>0.2</b>	<b>0.7</b>	<b>0.6</b>	<b>0.5</b>	<b>0.6</b>	<b>0.5</b>	<b>0.6</b>	<b>0.5</b>	<b>0.6</b>	<b>4.53</b>			





**Table 4 (continued). Common waterhemp control with soybean herbicide systems at Rochester, MN in 2016.**

Pest Code		AMATA						YIELD								
Pest Name		Common Waterhemp						Oct-10 BU/A								
Rating Date		June-10	June-16	June-22	June-28	July-11	Sept-27									
Treatment	Rate	Appl	Percent Control (%)													
<b>PRE (5/18/16) / POST III (6/17/16) 4 inch weeds</b>																
5	SOA 2 / 9, 14, 15		99	b	99	b	99	b	99	b	99	b	99	b	52.0	efg
	AUTHORITY FIRST	6.4 oz wt/a		A												
	ROUNDUP POWERMAX	32 fl oz/a		D												
	WARRANT ULTRA	48 fl oz/a		D												
	MSO	1 % v/v		D												
	N-Pa-K AMS	1.5 qt/a		D												
8	SOA 2, 14 / 9		99	b	99	b	99	b	99	b	99	b	99	b	62.8	a
	AUTHORITY FIRST	6.4 oz wt/a		A												
	ROUNDUP POWERMAX	32 fl oz/a		D												
	N-Pa-K AMS	1.5 qt/a		D												
10	SOA 2, 14 / 9, 14, 15		99	b	99	b	99	b	99	b	99	b	99	b	61.6	a
	AUTHORITY FIRST	6.4 oz wt/a		A												
	ROUNDUP POWERMAX	32 fl oz/a		D												
	ANTHEM MAXX	2.5 fl oz/a		D												
	N-Pa-K AMS	1.5 qt/a		D												
11	SOA 2, 15, 14 / 9		99	b	99	b	99	b	99	b	99	b	99	b	60.0	abc
	FIERCE	3 oz wt/a		A												
	FIRSTRATE	0.3 oz wt/a		A												
	ROUNDUP POWERMAX	32 fl oz/a		D												
	N-Pa-K AMS	1.5 qt/a		D												
<b>PRE (5/18/16) / POST IV (6/24/16) 4 inch weeds</b>																
17	SOA 2, 14 / 9		99	b	99	b	99	bc	99	b	99	b	99	b	60.5	ab
	SURVEIL	2.8 oz wt/a		A												
	DURANGO DMA	32 fl oz/a		E												
	N-Pa-K AMS	1.5 qt/a		E												
<b>POST I (6/10/16) 2 inch weeds / POST IV (6/24/16) 4 inch weeds</b>																
21	SOA 9, 14 / 9		0	c	99	b	99	b	99	b	99	b	99	b	59.4	abc
	ROUNDUP POWERMAX	32 fl oz/a		B												
	COBRA	8 fl oz/a		B												
	COC	1 pt/a		B												
	N-Pa-K AMS	1.5 qt/a		B												
	ROUNDUP POWERMAX	32 fl oz/a		E												
	N-Pa-K AMS	1.5 qt/a		E												
22	SOA 9, 14, 15 / 9		0	c	99	b	98	d	99	bc	99	b	99	bc	54.2	d-g
	ROUNDUP POWERMAX	32 fl oz/a		B												
	ANTHEM MAXX	3 fl oz/a		B												
	N-Pa-K AMS	1.5 qt/a		B												
	ROUNDUP POWERMAX	32 fl oz/a		E												
	N-Pa-K AMS	1.5 qt/a		E												
<b>LSD P=.10</b>			.	.	0.3	0.4	0.3	0.6	4.53							

**Table 5. Grass control with soybean herbicide systems at Rochester, MN in 2016.**

Pest Code	GRASS Species						YIELD Oct-10 BU/A		
	June-10	June-16	June-22	June-28	July-11	Sept-27			
Rating Date	Percent Control (%)								
Treatment	Rate	Appl							
23 Weedy Check			0 d	0 f	0 g	0 h	0 j	0 h	15.4 h
24 Weed-Free		E	100 a	100 a	100 a	100 a	100 a	100 a	
<b>PRE (5/18/16) / POST II (6/14/16) 4 inch weeds</b>									
1 SOA 5, 15 / 9, 14			99 b	99 ab	99 ab	99 b	99 b	99 abc	58.8 abc
BOUNDARY 6.5 EC	1.75 pt/a	A							
FLEXSTAR GT 3.5	3.5 pt/a	C							
MSO	1 % v/v	C							
N-Pa-K AMS	1.5 qt/a	C							
2 SOA 14 / 9, 15			99 b	99 ab	99 b	98 cde	98 c-f	98 c-f	58.3 a-d
ROWEL	3 oz wt/a	A							
ROUNDUP POWERMAX	32 fl oz/a	C							
WARRANT	1.9 qt/a	C							
N-Pa-K AMS	1.5 qt/a	C							
3 SOA 14,15 / 15, 9, 14			99 b	99 ab	99 ab	99 bc	99 b	99 bc	53.3 efg
BROADAXE XC	25 fl oz/a	A							
DUAL II MAGNUM	16 fl oz/a	C							
FLEXSTAR GT 3.5	3.5 pt/a	C							
MSO	1 % v/v	C							
N-Pa-K AMS	1.5 qt/a	C							
4 SOA 5, 15 / 15, 9, 14			99 b	99 ab	99 ab	99 b	99 b	99 abc	53.2 efg
BOUNDARY 6.5 EC	1.75 pt/a	A							
DUAL II MAGNUM	16 oz/a	C							
FLEXSTAR GT 3.5	3.5 pt/a	C							
MSO	1 % v/v	C							
N-Pa-K AMS	1.5 qt/a	C							
6 SOA 14 / 9, 14, 15			99 b	99 b	99 ab	99 ab	99 ab	99 ab	49.8 g
ROWEL	3 oz wt/a	A							
ROUNDUP POWERMAX	32 fl oz/a	C							
WARRANT ULTRA	48 fl oz/a	C							
MSO	1 % v/v	C							
N-Pa-K AMS	1.5 qt/a	C							
7 SOA 14 / 15, 14, 9			99 b	99 ab	99 b	98 de	98 def	98 c-f	51.5 fg
ROWEL	3 oz wt/a	A							
WARRANT	1.9 qt/a	C							
COBRA	10 fl oz/a	C							
ROUNDUP POWERMAX	32 fl oz/a	C							
COC	0.5 qt/a	C							
N-Pa-K AMS	1.5 qt/a	C							
9 SOA 2, 14 / 9			99 bc	99 ab	99 b	98 bcd	98 b-e	99 bcd	62.8 a
AUTHORITY ASSIST	12 fl oz/a	A							
ROUNDUP POWERMAX	32 fl oz/a	C							
N-Pa-K AMS	1.5 qt/a	C							
12 SOA 14, 15, 5 / 9			99 b	99 ab	99 ab	98 cde	98 b-e	99 bcd	55.6 c-f
FIERCE	3 oz wt/a	A							
METRIBUZIN	4 oz wt/a	A							
ROUNDUP POWERMAX	32 fl oz/a	C							
N-Pa-K AMS	1.5 qt/a	C							
13 SOA 2, 14, 15 / 9			99 b	99 ab	98 bc	98 cde	97 fgh	97 ef	59.1 abc
ZIDUA PRO	4.5 fl oz/a	A							
ROUNDUP POWERMAX	32 fl oz/a	C							
NIS	0.25 % v/v	C							
N-Pa-K AMS	1.5 qt/a	C							
14 SOA 14, 15 / 9			99 b	99 ab	99 ab	98 de	97 gh	97 fg	60.2 ab
VERDICT	5 fl oz/a	A							
ZIDUA	2.3 fl oz/a	A							
ROUNDUP POWERMAX	32 fl oz/a	C							
NIS	0.25 % v/v	C							
N-Pa-K AMS	1.5 qt/a	C							
15 SOA 14, 15, 5 / 9			99 b	99 b	98 bcd	97 ef	96 i	96 g	62.4 a
VERDICT	5 fl oz/a	A							
METRIBUZIN	5 oz wt/a	A							
ROUNDUP POWERMAX	32 fl oz/a	C							
NIS	0.25 % v/v	C							
N-Pa-K AMS	1.5 qt/a	C							
16 SOA 2, 14 / 9			99 b	98 bcd	98 bcd	98 de	97 gh	98 def	60.4 ab
SONIC	4.5 oz wt/a	A							
DURANGO DMA	32 fl oz/a	C							
N-Pa-K AMS	1.5 qt/a	C							
18 SOA 2, 14 / 9, 14			99 b	99 ab	99 b	98 cde	98 c-f	98 b-e	56.5 b-e
SONIC	4.5 oz wt/a	A							
DURANGO DMA	32 fl oz/a	C							
FLEXSTAR	12 fl oz/a	C							
COC	0.5 % v/v	C							
N-Pa-K AMS	1.5 qt/a	C							
19 SOA 2, 14, / 9, 15			98 c	97 cde	99 b	98 de	98 efg	98 c-f	60.9 ab
ENLITE 2.8 oz/A									
- chlorimuron	0.33 oz wt/a	A							
- thifensulfuron	0.5 oz wt/a	A							
- flumioxazin	2 oz wt/a	A							
ABUNDIT EXTRA	32 fl oz/a	C							
CINCH	1 pt/a	C							
N-Pa-K AMS	1.5 qt/a	C							
20 SOA 2, 14 / 9			98 c	97 cde	97 de	97 fg	97 h	96 g	58.8 abc
ENLITE 2.8 oz/A									
- chlorimuron	0.33 oz wt/a	A							
- thifensulfuron	0.5 oz wt/a	A							
- flumioxazin	2 oz wt/a	A							
ABUNDIT EXTRA	32 fl oz/a	C							
N-Pa-K AMS	1.5 qt/a	C							



**Table 5 (continued). Grass control with soybean herbicide systems at Rochester, MN in 2016.**

Pest Code	GRASS Species						YIELD Oct-10 BU/A									
	June-10	June-16	June-22	June-28	July-11	Sept-27										
Rating Date	Percent Control (%)															
Treatment	Rate	Appl														
<b>PRE (5/18/16) / POST III (6/17/16) 4 inch weeds</b>																
5	SOA 2 / 9, 14, 15		99	b	98	bcd	99	ab	99	bc	99	b	99	abc	52.0	efg
	AUTHORITY FIRST	6.4 oz wt/a														
	ROUNDUP POWERMAX	32 fl oz/a														
	WARRANT ULTRA	48 fl oz/a														
	MISO	1 % v/v														
	N-Pa-K AMS	1.5 qt/a														
8	SOA 2, 14 / 9		99	b	98	bc	99	b	98	cde	99	b	99	bc	62.8	a
	AUTHORITY FIRST	6.4 oz wt/a														
	ROUNDUP POWERMAX	32 fl oz/a														
	N-Pa-K AMS	1.5 qt/a														
10	SOA 2, 14 / 9, 14, 15		98	c	97	de	99	ab	99	b	99	b	99	abc	61.6	a
	AUTHORITY FIRST	6.4 oz wt/a														
	ROUNDUP POWERMAX	32 fl oz/a														
	ANTHEM MAXX	2.5 fl oz/a														
	N-Pa-K AMS	1.5 qt/a														
11	SOA 2, 15, 14 / 9		99	b	99	ab	99	ab	98	bcd	99	bcd	99	bcd	60.0	abc
	FIERCE	3 oz wt/a														
	FIRSTRATE	0.3 oz wt/a														
	ROUNDUP POWERMAX	32 fl oz/a														
	N-Pa-K AMS	1.5 qt/a														
<b>PRE (5/18/16) / POST IV (6/24/16) 4 inch weeds</b>																
17	SOA 2, 14 / 9		99	bc	96	e	92	f	96	g	99	bcd	99	bcd	60.5	ab
	SURVEIL	2.8 oz wt/a														
	DURANGO DMA	32 fl oz/a														
	N-Pa-K AMS	1.5 qt/a														
<b>POST I (6/10/16) 2 inch weeds / POST IV (6/24/16) 4 inch weeds</b>																
21	SOA 9, 14 / 9		0	d	99	ab	97	cde	98	de	97	fgh	98	c-f	59.4	abc
	ROUNDUP POWERMAX	32 fl oz/a														
	COBRA	8 fl oz/a														
	COC	1 pt/a														
	N-Pa-K AMS	1.5 qt/a														
	ROUNDUP POWERMAX	32 fl oz/a														
	N-Pa-K AMS	1.5 qt/a														
22	SOA 9, 14, 15 / 9		0	d	99	ab	96	e	98	bcd	99	bc	99	bc	54.2	d-g
	ROUNDUP POWERMAX	32 fl oz/a														
	ANTHEM MAXX	3 fl oz/a														
	N-Pa-K AMS	1.5 qt/a														
	ROUNDUP POWERMAX	32 fl oz/a														
	N-Pa-K AMS	1.5 qt/a														
<b>LSD P=.10</b>			<b>0.7</b>		<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>		<b>4.5</b>	



**Table 6 (continued). Crop Response to herbicide systems in soybean at Rochester, MN in 2016.**

Pest Code	CROP RESPONSE				YIELD Oct-10 BU/A							
	June-6	June-16	June-22	July-11								
Rating Date	Percent Injury (%)											
Treatment	Rate	Appl										
<b>PRE (5/18/16) / POST III (6/17/16) 4 inch weeds</b>												
5	SOA 2 / 9, 14, 15		1	d	0	f	29	b	1	f	52.0	efg
	AUTHORITY FIRST	6.4 oz wt/a		A								
	ROUNDUP POWERMAX	32 fl oz/a		D								
	WARRANT ULTRA	48 fl oz/a		D								
	MSO	1 % v/v		D								
	N-Pa-K AMS	1.5 qt/a		D								
8	SOA 2, 14 / 9		0	d	0	f	1	hi	0	f	62.8	a
	AUTHORITY FIRST	6.4 oz wt/a		A								
	ROUNDUP POWERMAX	32 fl oz/a		D								
	N-Pa-K AMS	1.5 qt/a		D								
10	SOA 2, 14 / 9, 14, 15		0	d	0	f	15	e	0	f	61.6	a
	AUTHORITY FIRST	6.4 oz wt/a		A								
	ROUNDUP POWERMAX	32 fl oz/a		D								
	ANTHEM MAXX	2.5 fl oz/a		D								
	N-Pa-K AMS	1.5 qt/a		D								
11	SOA 2, 15, 14 / 9		23	b	0	f	3	ghi	0	f	60.0	abc
	FIERCE	3 oz wt/a		A								
	FIRSTRATE	0.3 oz wt/a		A								
	ROUNDUP POWERMAX	32 fl oz/a		D								
	N-Pa-K AMS	1.5 qt/a		D								
<b>PRE (5/18/16) / POST IV (6/24/16) 4 inch weeds</b>												
17	SOA 2, 14 / 9		25	b	0	f	0	i	0	f	60.5	ab
	SURVEIL	2.8 oz wt/a		A								
	DURANGO DMA	32 fl oz/a		E								
	N-Pa-K AMS	1.5 qt/a		E								
<b>POST I (6/10/16) 2 inch weeds / POST IV (6/24/16) 4 inch weeds</b>												
21	SOA 9, 14 / 9		0	d	58	c	18	de	4	de	59.4	abc
	ROUNDUP POWERMAX	32 fl oz/a		B								
	COBRA	8 fl oz/a		B								
	COC	1 pt/a		B								
	N-Pa-K AMS	1.5 qt/a		B								
	ROUNDUP POWERMAX	32 fl oz/a		E								
	N-Pa-K AMS	1.5 qt/a		E								
22	SOA 9, 14, 15 / 9		0	d	21	e	10	f	0	f	54.2	d-g
	ROUNDUP POWERMAX	32 fl oz/a		B								
	ANTHEM MAXX	3 fl oz/a		B								
	N-Pa-K AMS	1.5 qt/a		B								
	ROUNDUP POWERMAX	32 fl oz/a		E								
	N-Pa-K AMS	1.5 qt/a		E								
<b>LSD P=.10</b>			<b>5</b>		<b>6</b>		<b>4</b>		<b>2</b>		<b>4.5</b>	