

## Weed Management in soybean at Rochester, MN, in 2008.

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The objective of this trial was to evaluate herbicide systems for weed control effectiveness and economics in soybean. The research site was a Lawler loam series with a pH of 6.9 and soil test P and K levels of 71 ppm and 224 ppm, respectively. The field was spring disked and field cultivated prior to planting. The soybean variety, Pioneer 91M92 RR STS, was planted on May 22, 2008, at a depth of 1.5 inches in 30 inch rows at 150,000 seeds per acre. A randomized complete block design was used with four replications. Preemergence (PRE) and postemergence (POST I, POST II, POST III and POST IV) treatments were applied with a tractor-mounted sprayer delivering 20 gpa at 32 psi using Turbo Tee 11002 nozzles. Evaluations of the plots were taken on June 23, July 1, 7, 18, 28, and September 23. Application dates, environmental conditions, and weed stages are listed below. The center two rows of each plot were machine harvested on October 10, 2008. (University of Minnesota Extension, Regional Office – Rochester, Southern Research and Outreach Center – Waseca, and Southwest Research and Outreach Center – Lamberton, MN).

<b>Date</b>	<b>5/22</b>	<b>6/23</b>	<b>6/26</b>	<b>6/30</b>	<b>7/21</b>
<b>Treatment</b>	<b>PRE</b>	<b>POST I</b>	<b>POST II</b>	<b>POST III</b>	<b>POST IV</b>
<b>Temperature (F)</b>					
Air	66	78	74	77	74
soil	70	86	80	80	73
<b>Relative Humidity (%)</b>	40	38	57	32	66
<b>Wind (mph)</b>	7	5	6	7	7
<b>Soil moisture</b>	Inadequate	Inadequate	Inadequate	Adequate	Adequate
<b>Bean</b>					
stage		V2	V3	V3-V4	R2
height (inch)		4.5	5.0	8.0	18.0
<b>Giant Ragweed</b>					
weed density (ft <sup>2</sup> )		11.2	11.2	11.2	11.2
height (inch)		4.8	7.6	4.4	6.5
<b>Common Lambsquarters</b>					
weed density (ft <sup>2</sup> )		23.6	23.6	23.6	23.6
height (inch)		2.2	3.3	3.1	4.1
<b>Common Waterhemp</b>					
weed density (ft <sup>2</sup> )		9.7	9.7	9.7	9.7
height (inch)		1.1	1.8	3.0	5.3
<b>Giant foxtail</b>					
weed density (ft <sup>2</sup> )		3.2	3.2	3.2	3.2
height (inch)		1.8	2.2	5.0	3.6
<b>Velvetleaf</b>					
weed density (ft <sup>2</sup> )		5.0	5.0	5.0	5.0
height (inch)		2.0	2.2	2.3	3.8
<b>Rainfall after each application (inch)</b>					
week 1	1.99	0.76	0.76	0.87	0.04
week 2	2.06	0.87	1.33	0.92	0.81
week 3	6.57	0.92	0.91	0.59	0.07

**Table 1. Performance of herbicide systems for giant ragweed control in soybean on June 23, July 1, 7, 18, and 28, and September 23 at Rochester, MN in 2008.**

Treatment	Rate	Giant Ragweed Control						Yield
		6/23	7/1	7/7	7/18	7/28	9/23	
	(rate/A)	(%)						(bu/A)
<b>PRE / POST I</b>								
Boundary / Flexstar + Fusion + Harmony GT + MSO + 28% N	1.5 pt / 16 oz + 8 oz + 0.125 oz + 1% v/v + 2.5% v/v	0	99	95	93	96	89	21
<b>PRE / POST II</b>								
Authority First / Roundup OriginalMax + N-Pa-K AMS	3.2 oz / 22 oz + 3 qt	85	73	89	92	97	93	27
Authority Assist / Roundup OriginalMax + N-Pa-K AMS	5 oz / 22 oz + 3 qt	16	80	94	92	96	91	26
IntRRo / Roundup WeatherMax + N-Pa-K AMS	2 qt / 22 oz + 3 qt	0	76	95	95	94	91	25
Gangster V + Gangster FR / Roundup OriginalMax + N-Pa-K AMS	2 oz + 0.4 oz / 22 oz + 3 qt	90	89	94	96	99	97	27
Prefix / Touchdown Total + N-Pa-K AMS	1 qt / 24 oz + 3 qt	85	80	97	93	99	97	29
Boundary / Touchdown Total + N-Pa-K AMS	1.5 pt / 24 oz + 3 qt	0	76	93	93	94	89	27
Valor / Roundup OriginalMax + N-Pa-K AMS	2 oz / 22 oz + 3 qt	16	80	97	94	98	95	31
Valor SX + Python / Roundup OriginalMax + N-Pa-K AMS	1.5 oz + 0.5 oz / 22 oz + 3 qt	71	71	92	94	97	96	32
Valor SX + Sencor / Roundup OriginalMax + N-Pa-K AMS	1.75 oz + 4 oz / 22 oz + 3 qt	23	84	98	92	94	93	32
Sonic / Durango DMA + N-Pa-K AMS	4.5 oz / 24 oz + 3 qt	88	81	91	94	98	96	32
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 3 qt	79	71	93	95	98	96	34
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + Harmony GT + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 0.125 oz + 3 qt	80	70	92	94	98	94	29
<b>POST I / POST III</b>								
Roundup WeatherMax + N-Pa-K AMS / Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt / 22 oz + 3 qt	0	94	97	94	98	99	27
Durango DMA + FirstRate + N-Pa-K AMS / Durango DMA + N-Pa-K AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	0	95	98	97	99	99	30
Touchdown Total + N-Pa-K AMS / Touchdown Total + N-Pa-K AMS	24 oz + 3 qt / 24 oz + 3 qt	0	93	98	97	99	99	26
<b>POST II</b>								
Classic + Roundup PowerMax + N-Pa-K AMS	0.33 oz + 22 oz + 3 qt	0	78	95	94	95	94	24
Harmony GT + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 22 oz + 3 qt	0	79	96	93	94	91	23
Harmony GT + Classic + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 0.33 oz + 22 oz + 3 qt	0	76	95	93	95	93	24
Roundup OriginalMax + Resource + NIS + N-Pa-K AMS	22 oz + 2 oz + 0.25% v/v + 3 qt	0	79	78	85	82	79	17
Roundup OriginalMax + Cadet + NIS + N-Pa-K AMS	22 oz + 0.4 oz + 0.25% v/v + 3 qt	0	78	74	87	84	81	17
Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt	0	75	96	95	92	88	22
Weedy Check		0	0	0	0	0	0	2
Weed Free		100	100	100	100	100	100	32
	<b>LSD (P=0.10)</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>7</b>

**Table 2. Performance of herbicide systems for common lambsquarters control in soybean on June 23, July 1, 7, 18, and 28, and September 23 at Rochester, MN in 2008.**

Treatment	Rate	Common Lambsquarters Control						Yield
		6/23	7/1	7/7	7/18	7/28	9/23	
	(rate/A)	(%)						(bu/A)
<b>PRE / POST I</b>								
Boundary / Flexstar + Fusion + Harmony GT + MSO + 28% N	1.5 pt / 16 oz + 8 oz + 0.125 oz + 1% v/v + 2.5% v/v	71	99	97	88	92	88	21
<b>PRE / POST II</b>								
Authority First / Roundup OriginalMax + N-Pa-K AMS	3.2 oz / 22 oz + 3 qt	98	99	99	99	99	99	27
Authority Assist / Roundup OriginalMax + N-Pa-K AMS	5 oz / 22 oz + 3 qt	98	99	99	99	99	99	26
IntRRo / Roundup WeatherMax + N-Pa-K AMS	2 qt / 22 oz + 3 qt	66	98	98	90	90	94	25
Gangster V + Gangster FR / Roundup OriginalMax + N-Pa-K AMS	2 oz + 0.4 oz / 22 oz + 3 qt	99	99	99	96	99	96	27
Prefix / Touchdown Total + N-Pa-K AMS	1 qt / 24 oz + 3 qt	72	74	99	95	98	94	29
Boundary / Touchdown Total + N-Pa-K AMS	1.5 pt / 24 oz + 3 qt	92	99	98	91	96	86	27
Valor / Roundup OriginalMax + N-Pa-K AMS	2 oz / 22 oz + 3 qt	98	99	99	91	97	92	31
Valor SX + Python / Roundup OriginalMax + N-Pa-K AMS	1.5 oz + 0.5 oz / 22 oz + 3 qt	99	99	99	97	99	95	32
Valor SX + Sencor / Roundup OriginalMax + N-Pa-K AMS	1.75 oz + 4 oz / 22 oz + 3 qt	99	99	99	91	97	90	32
Sonic / Durango DMA + N-Pa-K AMS	4.5 oz / 24 oz + 3 qt	99	99	99	99	99	99	32
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 3 qt	99	99	99	97	98	97	34
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + Harmony GT + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 0.125 oz + 3 qt	99	99	99	98	99	97	29
<b>POST I / POST III</b>								
Roundup WeatherMax + N-Pa-K AMS / Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt / 22 oz + 3 qt	0	98	96	91	99	99	27
Durango DMA + FirstRate + N-Pa-K AMS / Durango DMA + N-Pa-K AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	0	97	92	86	99	99	30
Touchdown Total + N-Pa-K AMS / Touchdown Total + N-Pa-K AMS	24 oz + 3 qt / 24 oz + 3 qt	0	96	97	89	99	98	26
<b>POST II</b>								
Classic + Roundup PowerMax + N-Pa-K AMS	0.33 oz + 22 oz + 3 qt	0	98	95	88	97	87	24
Harmony GT + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 22 oz + 3 qt	0	97	98	92	98	91	23
Harmony GT + Classic + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 0.33 oz + 22 oz + 3 qt	0	96	98	96	99	93	24
Roundup OriginalMax + Resource + NIS + N-Pa-K AMS	22 oz + 2 oz + 0.25% v/v + 3 qt	0	96	92	85	86	80	17
Roundup OriginalMax + Cadet + NIS + N-Pa-K AMS	22 oz + 0.4 oz + 0.25% v/v + 3 qt	0	98	96	85	86	82	17
Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt	0	95	92	78	88	80	22
Weedy Check		0	0	0	0	0	0	2
Weed Free		100	100	100	100	100	100	32
<b>LSD (P=0.10)</b>		<b>4</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>7</b>

**Table 3. Performance of herbicide systems for common waterhemp control in soybean on June 23, July 1, 7, 18, and 28, and September 23 at Rochester, MN in 2008.**

Treatment	Rate (rate/A)	Common Waterhemp Control (%)						Yield (bu/A)
		6/23	7/1	7/7	7/18	7/28	9/23	
<b>PRE / POST I</b>								
Boundary / Flexstar + Fusion + Harmony GT + MSO + 28% N	1.5 pt / 16 oz + 8 oz + 0.125 oz + 1% v/v + 2.5% v/v	99	99	99	98	98	99	21
<b>PRE / POST II</b>								
Authority First / Roundup OriginalMax + N-Pa-K AMS	3.2 oz / 22 oz + 3 qt	99	96	99	99	98	98	27
Authority Assist / Roundup OriginalMax + N-Pa-K AMS	5 oz / 22 oz + 3 qt	99	99	99	97	98	95	26
IntRRo / Roundup WeatherMax + N-Pa-K AMS	2 qt / 22 oz + 3 qt	99	99	98	86	93	84	25
Gangster V + Gangster FR / Roundup OriginalMax + N-Pa-K AMS	2 oz + 0.4 oz / 22 oz + 3 qt	99	99	99	99	98	99	27
Prefix / Touchdown Total + N-Pa-K AMS	1 qt / 24 oz + 3 qt	99	99	99	99	99	99	29
Boundary / Touchdown Total + N-Pa-K AMS	1.5 pt / 24 oz + 3 qt	98	99	99	93	96	89	27
Valor / Roundup OriginalMax + N-Pa-K AMS	2 oz / 22 oz + 3 qt	99	99	99	94	98	94	31
Valor SX + Python / Roundup OriginalMax + N-Pa-K AMS	1.5 oz + 0.5 oz / 22 oz + 3 qt	99	99	99	97	98	96	32
Valor SX + Sencor / Roundup OriginalMax + N-Pa-K AMS	1.75 oz + 4 oz / 22 oz + 3 qt	97	99	99	93	96	92	32
Sonic / Durango DMA + N-Pa-K AMS	4.5 oz / 24 oz + 3 qt	99	99	99	99	98	99	32
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 3 qt	99	99	99	99	99	99	34
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + Harmony GT + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 0.125 oz + 3 qt	99	99	99	99	98	98	29
<b>POST I / POST III</b>								
Roundup WeatherMax + N-Pa-K AMS / Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt / 22 oz + 3 qt	0	9999	97	86	99	99	27
Durango DMA + FirstRate + N-Pa-K AMS / Durango DMA + N-Pa-K AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	0	99	99	92	99	99	30
Touchdown Total + N-Pa-K AMS / Touchdown Total + N-Pa-K AMS	24 oz + 3 qt / 24 oz + 3 qt	0	99	99	89	99	99	26
<b>POST II</b>								
Classic + Roundup PowerMax + N-Pa-K AMS	0.33 oz + 22 oz + 3 qt	0	99	99	95	96	92	24
Harmony GT + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 22 oz + 3 qt	0	99	99	94	97	94	23
Harmony GT + Classic + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 0.33 oz + 22 oz + 3 qt	0	99	99	96	97	94	24
Roundup OriginalMax + Resource + NIS + N-Pa-K AMS	22 oz + 2 oz + 0.25% v/v + 3 qt	0	99	99	90	86	85	17
Roundup OriginalMax + Cadet + NIS + N-Pa-K AMS	22 oz + 0.4 oz + 0.25% v/v + 3 qt	0	99	98	89	86	88	17
Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt	0	99	98	82	88	81	22
Weedy Check		0	0	0	0	0	0	2
Weed Free		100	100	100	100	100	100	32
<b>LSD (P=0.10)</b>		<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>7</b>

**Table 4. Performance of herbicide systems for giant foxtail control in soybean on June 23, July 1, 7, 18, and 28, and September 23 at Rochester, MN in 2008.**

Treatment	Rate	Giant foxtail Control						Yield
		6/23	7/1	7/7	7/18	7/28	9/23	
	(rate/A)	(%)						(bu/A)
<b>PRE / POST I</b>								
Boundary / Flexstar + Fusion + Harmony GT + MSO + 28% N	1.5 pt / 16 oz + 8 oz + 0.125 oz + 1% v/v + 2.5% v/v	99	99	98	95	99	90	21
<b>PRE / POST II</b>								
Authority First / Roundup OriginalMax + N-Pa-K AMS	3.2 oz / 22 oz + 3 qt	66	66	98	94	97	89	27
Authority Assist / Roundup OriginalMax + N-Pa-K AMS	5 oz / 22 oz + 3 qt	60	99	98	92	96	83	26
IntRRo / Roundup WeatherMax + N-Pa-K AMS	2 qt / 22 oz + 3 qt	99	99	98	88	96	87	25
Gangster V + Gangster FR / Roundup OriginalMax + N-Pa-K AMS	2 oz + 0.4 oz / 22 oz + 3 qt	89	75	98	90	97	89	27
Prefix / Touchdown Total + N-Pa-K AMS	1 qt / 24 oz + 3 qt	99	94	99	98	99	96	29
Boundary / Touchdown Total + N-Pa-K AMS	1.5 pt / 24 oz + 3 qt	99	99	99	94	98	91	27
Valor / Roundup OriginalMax + N-Pa-K AMS	2 oz / 22 oz + 3 qt	63	99	97	88	93	84	31
Valor SX + Python / Roundup OriginalMax + N-Pa-K AMS	1.5 oz + 0.5 oz / 22 oz + 3 qt	64	66	98	91	98	90	32
Valor SX + Sencor / Roundup OriginalMax + N-Pa-K AMS	1.75 oz + 4 oz / 22 oz + 3 qt	65	99	98	89	97	84	32
Sonic / Durango DMA + N-Pa-K AMS	4.5 oz / 24 oz + 3 qt	63	60	98	91	97	90	32
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 3 qt	76	74	99	90	98	90	34
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + Harmony GT + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 0.125 oz + 3 qt	81	76	99	94	99	91	29
<b>POST I / POST III</b>								
Roundup WeatherMax + N-Pa-K AMS / Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt / 22 oz + 3 qt	0	99	98	89	99	99	27
Durango DMA + FirstRate + N-Pa-K AMS / Durango DMA + N-Pa-K AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	0	99	98	96	99	99	30
Touchdown Total + N-Pa-K AMS / Touchdown Total + N-Pa-K AMS	24 oz + 3 qt / 24 oz + 3 qt	0	99	97	86	99	98	26
<b>POST II</b>								
Classic + Roundup PowerMax + N-Pa-K AMS	0.33 oz + 22 oz + 3 qt	0	99	98	90	96	83	24
Harmony GT + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 22 oz + 3 qt	0	99	98	90	96	82	23
Harmony GT + Classic + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 0.33 oz + 22 oz + 3 qt	0	99	97	92	97	87	24
Roundup OriginalMax + Resource + NIS + N-Pa-K AMS	22 oz + 2 oz + 0.25% v/v + 3 qt	0	99	98	87	88	76	17
Roundup OriginalMax + Cadet + NIS + N-Pa-K AMS	22 oz + 0.4 oz + 0.25% v/v + 3 qt	0	99	97	87	90	75	17
Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt	0	99	97	88	97	77	22
Weedy Check		0	0	0	0	0	0	2
Weed Free		100	100	100	100	100	100	32
<b>LSD (P=0.10)</b>		<b>4</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>7</b>

**Table 5. Performance of herbicide systems for velvetleaf control in soybean on June 23, July 1, 7, 18, and 28, and September 23 at Rochester, MN in 2008.**

Treatment	Rate	Velvetleaf Control						Yield
		6/23	7/1	7/7	7/18	7/28	9/23	
	(rate/A)	(%)						(bu/A)
<b>PRE / POST I</b>								
Boundary / Flexstar + Fusion + Harmony GT + MSO + 28% N	1.5 pt / 16 oz + 8 oz + 0.125 oz + 1% v/v + 2.5% v/v	71	99	96	84	92	85	21
<b>PRE / POST II</b>								
Authority First / Roundup OriginalMax + N-Pa-K AMS	3.2 oz / 22 oz + 3 qt	97	97	96	95	97	93	27
Authority Assist / Roundup OriginalMax + N-Pa-K AMS	5 oz / 22 oz + 3 qt	88	96	98	93	97	94	26
IntRRo / Roundup WeatherMax + N-Pa-K AMS	2 qt / 22 oz + 3 qt	50	89	97	90	95	88	25
Gangster V + Gangster FR / Roundup OriginalMax + N-Pa-K AMS	2 oz + 0.4 oz / 22 oz + 3 qt	98	99	98	94	99	94	27
Prefix / Touchdown Total + N-Pa-K AMS	1 qt / 24 oz + 3 qt	55	59	87	93	98	93	29
Boundary / Touchdown Total + N-Pa-K AMS	1.5 pt / 24 oz + 3 qt	70	92	96	89	96	85	27
Valor / Roundup OriginalMax + N-Pa-K AMS	2 oz / 22 oz + 3 qt	96	99	98	95	97	93	31
Valor SX + Python / Roundup OriginalMax + N-Pa-K AMS	1.5 oz + 0.5 oz / 22 oz + 3 qt	99	99	99	98	99	98	32
Valor SX + Sencor / Roundup OriginalMax + N-Pa-K AMS	1.75 oz + 4 oz / 22 oz + 3 qt	98	99	98	93	97	95	32
Sonic / Durango DMA + N-Pa-K AMS	4.5 oz / 24 oz + 3 qt	99	99	99	94	98	94	32
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 3 qt	98	99	97	92	96	91	34
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + Harmony GT + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 0.125 oz + 3 qt	97	99	98	94	99	95	29
<b>POST I / POST III</b>								
Roundup WeatherMax + N-Pa-K AMS / Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt / 22 oz + 3 qt	0	86	96	87	98	97	27
Durango DMA + FirstRate + N-Pa-K AMS / Durango DMA + N-Pa-K AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	0	93	97	93	99	98	30
Touchdown Total + N-Pa-K AMS / Touchdown Total + N-Pa-K AMS	24 oz + 3 qt / 24 oz + 3 qt	0	90	98	93	99	98	26
<b>POST II</b>								
Classic + Roundup PowerMax + N-Pa-K AMS	0.33 oz + 22 oz + 3 qt	0	85	95	90	95	85	24
Harmony GT + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 22 oz + 3 qt	0	84	96	92	94	85	23
Harmony GT + Classic + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 0.33 oz + 22 oz + 3 qt	0	84	96	92	96	90	24
Roundup OriginalMax + Resource + NIS + N-Pa-K AMS	22 oz + 2 oz + 0.25% v/v + 3 qt	0	96	94	86	90	85	17
Roundup OriginalMax + Cadet + NIS + N-Pa-K AMS	22 oz + 0.4 oz + 0.25% v/v + 3 qt	0	99	98	94	92	91	17
Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt	0	85	96	90	95	87	22
Weedy Check		0	0	0	0	0	0	2
Weed Free		100	100	100	100	100	100	32
<b>LSD (P=0.10)</b>		<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>7</b>

**Table 6. Evaluation of herbicide injury to soybean on June 23, July 1, 7, and 18 at Rochester, MN in 2008.**

Treatment	Rate (rate/A)	Injury				Yield (bu/A)
		6/23	7/1	7/7	7/18	
<b>PRE / POST I</b>						
Boundary / Flexstar + Fusion + Harmony GT + MSO + 28% N	1.5 pt / 16 oz + 8 oz + 0.125 oz + 1% v/v + 2.5% v/v	0	41	10	2.5	21
<b>PRE / POST II</b>						
Authority First / Roundup OriginalMax + N-Pa-K AMS	3.2 oz / 22 oz + 3 qt	0	0	0	0	27
Authority Assist / Roundup OriginalMax + N-Pa-K AMS	5 oz / 22 oz + 3 qt	0	0	0	0	26
IntRRo / Roundup WeatherMax + N-Pa-K AMS	2 qt / 22 oz + 3 qt	0	0	0	0	25
Gangster V + Gangster FR / Roundup OriginalMax + N-Pa-K AMS	2 oz + 0.4 oz / 22 oz + 3 qt	0	0	0	0	27
Prefix / Touchdown Total + N-Pa-K AMS	1 qt / 24 oz + 3 qt	0	0	0	0	29
Boundary / Touchdown Total + N-Pa-K AMS	1.5 pt / 24 oz + 3 qt	0	0	0	0	27
Valor / Roundup OriginalMax + N-Pa-K AMS	2 oz / 22 oz + 3 qt	0	0	0	0	31
Valor SX + Python / Roundup OriginalMax + N-Pa-K AMS	1.5 oz + 0.5 oz / 22 oz + 3 qt	0	0	0	0	32
Valor SX + Sencor / Roundup OriginalMax + N-Pa-K AMS	1.75 oz + 4 oz / 22 oz + 3 qt	0	0	0	0	32
Sonic / Durango DMA + N-Pa-K AMS	4.5 oz / 24 oz + 3 qt	0	0	0	0	32
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 3 qt	0	0	0	0	34
Enlite (clorimuron + thifensulfuron + flumioxazin) / Roundup PowerMax + Harmony GT + N-Pa-K AMS	2.8 oz (0.33 oz + 0.5 oz + 2 oz) / 22 oz + 0.125 oz + 3 qt	0	0	0	0	29
<b>POST I / POST III</b>						
Roundup WeatherMax + N-Pa-K AMS / Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt / 22 oz + 3 qt	0	0	0	0	27
Durango DMA + FirstRate + N-Pa-K AMS / Durango DMA + N-Pa-K AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	0	0	0	0	30
Touchdown Total + N-Pa-K AMS / Touchdown Total + N-Pa-K AMS	24 oz + 3 qt / 24 oz + 3 qt	0	0	0	0	26
<b>POST II</b>						
Classic + Roundup PowerMax + N-Pa-K AMS	0.33 oz + 22 oz + 3 qt	0	0	0	0	24
Harmony GT + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 22 oz + 3 qt	0	0	0	0	23
Harmony GT + Classic + Roundup PowerMax + N-Pa-K AMS	0.5 oz + 0.33 oz + 22 oz + 3 qt	0	0	0	0	24
Roundup OriginalMax + Resource + NIS + N-Pa-K AMS	22 oz + 2 oz + 0.25% v/v + 3 qt	0	30	14	0	17
Roundup OriginalMax + Cadet + NIS + N-Pa-K AMS	22 oz + 0.4 oz + 0.25% v/v + 3 qt	0	40	15	0	17
Roundup WeatherMax + N-Pa-K AMS	22 oz + 3 qt	0	0	0	0	22
Weedy Check		0	0	0	0	2
Weed Free		100	0	0	0	32
<b>LSD (P=0.10)</b>		<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>7</b>