

## 2004 Soybean Herbicide Evaluation (Rochester, Lamberton, and Waseca Results)

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Herbicide	Rate (product / A)	Giant foxtail	Yellow foxtail	Wild proso millet	Common lambsquarters	Redroot pigweed	Common ragweed	Giant ragweed	Velvetleaf	Tall waterhemp	Yield	Cost	Returns	
		Number of locations										(bu/A)	-----(\$/A)-----	
		4	1	1	5	3	2	2	2	1	6		6	
		----- (% control) -----												
<u>Preemergence</u>														
1	Pendimax + Gangster	3 pt + 3.6 oz	83	78	79	98	98	96	95	99	73	46.4	32.30	187
<u>Preplant incorporate 2X/POST I (4-inch weeds)</u>														
2	Prowl H2O / Raptor + UltraBlazer + NIS + AMS	43 oz / 4 oz + 8 oz + 0.25% + 2.5 lb	83	93	93	99	86	30	54	99	99	24.2	44.52	104
3	Pusuit Plus / Rezult B + Rezult G + NIS + AMS	2.5 pt / 1.6 pt + 1.6 + 0.25% + 2.5 lb	99	97	98	98	96	24	59	99	61	30.2	38.11	134
4	Prowl H2O / Extreme + NIS + AMS	43 oz / 3 pt + 0.125% + 2.5 lb	99	97	99	98	98	92	97	99	99	46.2	32.91	192
<u>Preemergence/POST I (4-inch weeds)</u>														
5	Valor SX / FirstRate + Phoenix + V10137 + AMS	3 oz / 0.6 oz + 10 oz + 16 oz + 2 lb	97	93	99	99	100	99	91	99	99	45.9	-	
6	Pemdimax / FirstRate + Select + Cobra + COC + AMS	3 pt / 0.3 oz + 8 oz + 6 oz + 1% + 2.5 lb	98	94	96	93	78	94	82	99	99	43.4	45.76	161
7	Boundary / Flexstar + Fusion + COC + AMS	1.5 pt / 16 oz + 8 oz + 1% + 2.5 lb	95	96	100	99	100	97	86	99	97	44.9	48.39	174
8	Authority / Flexstar + Assure + COC + AMS	5.3 oz / 16 oz + 9 oz + 1% + 2.5 lb	97	96	100	99	99	98	79	99	99	42.3	42.20	173
<u>Preemergence/POST I (6-inch weeds)</u>														
9	InRRo / Roundup WeatherMax + AMS	4 pt / 22 oz + 2.5 lb	98	97	100	99	97	97	98	99	99	49.0	38.98	200
10	Prowl H2O + Outlook / Roundup WeatherMax	1 pt + 12.6 oz / 22 oz + 2.5 lb	98	97	100	99	98	90	98	99	96	50.3	47.25	193
11	Gangster/ Roundup WeatherMax + AMS	1.8 oz / 22 oz + 2.5 lb	97	95	100	99	99	99	100	99	99	53.3	38.79	218
12	Boundary / Touchdown Total + AMS	1.25 pt / 24 oz + 2.5 lb	99	97	100	99	94	95	98	99	98	53.3	41.69	212

**Table continued.** 2004 Soybean Herbicide Evaluation (Rochester, Lambertton, and Waseca Results)

Herbicide	Rate (product / A)	Giant foxtail	Yellow foxtail	Wild proso millet	Common lambsquarters	Redroot pigweed	Common ragweed	Giant ragweed	Velvetleaf	Tall waterhemp	Yield	Cost	Returns	
		Number of locations										(bu/A)	----(\$/A)----	
		4	1	1	5	3	2	2	2	1	6		6	
<u>Preemergence/POST I (6-inch weeds) continued.</u>														
13	Valor SX / Roundup WeatherMax + AMS	2 oz / 22 oz+2.5 lb	97	97	100	99	97	99	96	99	99	51.7	36.83	211
14	Valor SX + Python / Roundup WeatherMax + AMS	1.5 oz + 0.5 oz / 22 oz + 2.5 lb	97	98	100	99	100	97	99	99	93	53.6	39.64	216
15	Authority / Roundup WeatherMax + AMS	4 oz / 22 oz+2.5 lb	98	98	100	99	100	91	96	99	99	49.9	35.52	205
<u>POST I (4-inch weeds)</u>														
16	Flexstar + Fusion + HarmonyGT + COC + AMS	16 oz + 10 oz + 0.04 oz + 1% + 2.5 lb	85	95	100	92	89	88	68	99	85	34.5	31.29	155
17	Flexstar + Fusion + FirstRate + COC + AMS	16 oz + 10 oz + 0.3 oz + 1% + 2.5 lb	87	94	97	65	79	88	94	99	67	38.6	38.79	163
<u>POST I (4-inch weeds)/POST III (Canopy)</u>														
18	Roundup WeatherMax + AMS/ Roundup Weather Max+AMS	22 oz + 2.5 lb / 22 oz + 2.5 lb	99	97	100	97	94	99	100	99	99	47.9	39.98	196
<u>POST II (6-inch weeds)</u>														
19	GF 1279 + FirstRate + AMS	24 oz + 0.3 oz + 2.5 lb	99	98	100	95	97	97	96	99	99	46.9	-	
20	Clearout 41Plus + AMS	32 oz + 2.5 lb	99	97	100	96	92	94	95	99	96	46.3	18.16	213
21	GF 1279 + AMS	24 oz + 2.5 lb	99	97	100	95	78	93	96	99	99	46.9	-	
22	Roundup WeatherMax + AMS	22 oz + 2.5 lb	99	97	100	98	83	95	95	99	99	46.0	23.99	205
<u>Checks</u>														
23	Weedy	-	0	0	0	0	0	0	0	0	0	8.3	0.00	40
24	Hand-Weeded	-	100	100	100	100	100	100	100	100	100	52.0	0.00	249
	<b>LSD(0.10)</b>		3	3	4	4	12	8	9	12	12	3.0		11

Soybean Price = \$4.91  
(Waseca Co. 2004 Loan Rate)

## 2004 Soybean Herbicide Evaluation (Rochester)

Herbicide	Rate (pt/A)	Wild Proso Millet	Common Lambs. (% control)	Velvetleaf	Giant ragweed	Yield (bu/A)	Cost -----	Income Over Herb (\$/A) -----
<u>Preemergence</u>								
1 Pendimax + Gangster	3 +3.6 oz	79	98	100	95	33.4	32.30	132
<u>Preplant incorporate 2X/POST I (4-inch weeds)</u>								
2 Prowl H2O / Raptor + UltraBlazer + NIS + AMS	43 oz / 4 oz + 8 oz + 0.25% + 2.5 lb	93	96	100	88	29.1	44.52	98
3 Pusuit Plus / Rezult B + Rezult G + NIS + AMS	2.5 / 1.6 + 1.6 + 0.25% + 2.5 lb	98	97	100	91	36.0	38.11	139
4 Prowl H2O / Extreme + NIS + AMS	43oz / 3 pt + 0.125% + 2.5 lb	99	99	100	99	35.8	32.91	143
<u>Preemergence/ POST I (4-inch weeds)</u>								
5 Valor SX / FirstRate + Phoenix + V10137 + AMS	3 oz / 0.6 oz + 10 oz + 16 oz + 2 lb	99	98	100	96	34.8	-	-
6 Pemdimax / FirstRate + Select + Cobra + COC + AMS	3 / 0.3 oz + 8 oz + 6 oz + 1% + 2.5 lb	96	87	100	90	26.5	45.76	85
7 Boundary / Flexstar + Fusion + COC + AMS	1.5 pt / 16 oz + 8 oz + 1% + 2.5 lb	100	99	100	92	37.5	48.39	136
8 Authority / Flexstar + Assure + COC + AMS	5.3 oz / 16 oz + 9 oz + 1% + 2.5 lb	100	100	100	96	38.4	42.20	146
<u>Preemergence/ POST I (6-inch weeds)</u>								
9 InRRo / RoundupWeatherMax + AMS	4 / 22 oz + 2.5 lb	100	99	100	100	39.4	38.98	154
10 Prowl H2O + Outlook / Roundup WeatherMax	1 + 12.6 oz / 22 oz + 2.5 lb	100	100	100	100	37.6	47.25	137
11 Gangster / Roundup WeatherMax + AMS	1.8 oz / 22 oz + 2.5 lb	100	100	100	100	44.2	38.79	178
12 Boundary / Touchdown Total + AMS	1.25 pt / 24 oz + 2.5 lb	100	99	100	97	40.6	41.69	157
13 Valor SX / Roundup WeatherMax + AMS	2 oz / 22 oz + 2.5 lb	100	100	100	100	39.1	36.83	155
14 Valor SX + Python / Roundup WeatherMax + AMS	1.5 oz + 0.5 oz / 22 oz + 2.5 lb	100	100	100	99	41.1	39.64	162
15 Authority / Roundup WeatherMax + AMS	4 oz / 22 oz + 2.5 lb	100	100	100	97	38.8	35.52	155

**Table continued.** 2004 Soybean Herbicide Evaluation (Rochester)

Herbicide	Rate (pt/A)	Wild Proso Millet	Common Lambs. (% control)	Velvetleaf	Giant ragweed	Yield (bu/A)	Cost	Income Over Herb (\$/A)
<u>POST I (4-inch weeds)</u>								
16 Flexstar + Fusion + HarmonyGT + COC + AMS	16 oz + 10 oz + 0.04 oz + 1% + 2.5 lb	100	93	100	93	35.3	31.29	142
17 Flexstar + Fusion + FirstRate + COC + AMS	16 oz + 10 oz + 0.3 oz + 1% + 2.5 lb	97	85	100	99	37.3	38.79	145
<u>POST I (4-inch weeds) / POST III(Canopy)</u>								
18 Roundup WeatherMax + AMS/ Roundup Weather Max + AMS	22 oz + 2.5 lb / 22 oz + 2.5 lb	100	100	100	100	42.8	39.98	170
<u>POST II (6-inch weeds)</u>								
19 GF 1279 + FirstRate + AMS	24 oz + 0.3 oz + 2.5 lb	100	99	100	100	42.4	-	-
20 Clearout 41Plus + AMS	32 oz + 2.5 lb	100	99	100	97	42.9	18.16	192
21 GF 1279 + AMS	24 oz + 2.5 lb	100	99	100	99	40.1	-	-
22 Roundup WeatherMax + AMS	22 oz + 2.5 lb	100	100	100	97	41.3	23.99	179
<u>Checks</u>								
23 Weedy	-	0	0	0	0	12.7	0.00	62
24 Hand-Weeded	-	100	100	100	100	40.9	0.00	201
<b>LSD(0.10)</b>		4	3	1	5	5.2		26

Soybean Price = \$4.91  
(Waseca Co. 2004 Loan Rate)

## 2004 Soybean Herbicide Evaluation (Lamberton)

Herbicide	Rate (pt/A)	Yellow foxtail -----	Common lambsquarters (% control) -----	Redroot pigweed -----	Yield (bu/A)	Cost -----	Income Over Herb (\$/A) -----
<u>Preemergence</u>							
1 Pendimax + Gangster	3 +3.6 oz	78	100	98	48.9	32.30	208
<u>Preplant incorporate 2X/POST I (4-inch weeds)</u>							
2 Prowl H2O / Raptor + UltraBlazer + NIS + AMS	43 oz / 4 oz+ 8 oz+0.25%+2.5 lb	93	100	98	55.8	44.52	230
3 Pusuit Plus / Rezult B + Rezult G + NIS + AMS	2.5 / 1.6 + 1.6 + 0.25% + 2.5 lb	97	98	94	53.9	38.11	227
4 Prowl H2O / Extreme + NIS + AMS	43oz / 3 pt+0.125%+2.5 lb	97	100	98	54.5	32.91	235
<u>Preemergence/ POST I (4-inch weeds)</u>							
5 Valor SX / FirstRate + Phoenix + V10137 + AMS	3 oz / 0.6 oz + 10 oz + 16 oz + 2 lb	93	100	100	54.6	-	-
6 Pemdimax / FirstRate + Select + Cobra + COC + AMS	3 / 0.3 oz + 8 oz + 6 oz + 1% + 2.5 lb	94	94	99	52.6	45.76	213
7 Boundary / Flexstar + Fusion + COC + AMS	1.5 pt / 16 oz + 8 oz + 1% + 2.5 lb	96	100	100	54.7	48.39	220
8 Authority / Flexstar + Assure + COC + AMS	5.3 oz / 16 oz + 9 oz + 1% + 2.5 lb	96	100	100	55.3	42.20	229
<u>Preemergence / POST I (6-inch weeds)</u>							
9 InRRo / Roundup WeatherMax + AMS	4 / 22 oz + 2.5 lb	97	100	99	56.0	38.98	236
10 Prowl H2O + Outlook / Roundup WeatherMax	1 + 12.6 oz / 22 oz + 2.5 lb	97	100	99	54.3	47.25	219
11 Gangster/ Roundup WeatherMax + AMS	1.8 oz / 22 oz+2.5 lb	95	100	100	56.1	38.79	237
12 Boundary / Touchdown Total + AMS	1.25 pt / 24 oz + 2.5 lb	97	100	100	55.8	41.69	232
13 Valor SX / Roundup WeatherMax + AMS	2 oz / 22 oz+2.5 lb	97	100	100	56.4	36.83	240
14 Valor SX + Python / Roundup WeatherMax + AMS	1.5 oz + 0.5 oz / 22 oz + 2.5 lb	98	100	100	56.3	39.64	237
15 Authority / Roundup WeatherMax + AMS	4 oz / 22 oz+2.5 lb	98	100	100	55.2	35.52	235

**Table continued.** 2004 Soybean Herbicide Evaluation (Lamberton)

Herbicide	Rate (pt/A)	Yellow foxtail -----	Common lambsquarters (% control) -----	Redroot pigweed -----	Yield (bu/A)	Cost -----	Income Over Herb -----
<u>POST I (4-inch weeds)</u>							
16 Flexstar + Fusion + HarmonyGT + COC + AMS	16 oz + 10 oz + 0.04 oz + 1% + 2.5 lb	95	91	96	54.2	31.29	235
17 Flexstar + Fusion + FirstRate + COC + AMS	16 oz + 10 oz + 0.3 oz + 1% + 2.5 lb	94	89	90	55.0	38.79	231
<u>POST I (4-inch weeds)/POST III(Canopy)</u>							
18 Roundup WeatherMax + AMS/ Roundup Weather Max + AMS	22 oz + 2.5 lb / 22 oz + 2.5 lb	97	100	98	54.1	39.98	226
<u>POST II (6-inch weeds)</u>							
19 GF 1279 + FirstRate + AMS	24 oz + 0.3 oz + 2.5 lb	98	100	100	54.7	-	-
20 Clearout 41Plus + AMS	32 oz + 2.5 lb	97	99	100	54.9	18.16	251
21 GF 1279 + AMS	24 oz + 2.5 lb	97	98	98	55.1	-	-
22 Roundup WeatherMax + AMS	22 oz + 2.5 lb	97	100	100	55.1	23.99	247
<u>Checks</u>							
23 Weedy	-	0	0	0	2.9	0.00	14
24 Hand-Weeded	-	100	100	100	55.6	0.00	273
<b>LSD(0.10)</b>		3	3	3	1.9		9

Soybean Price = \$4.91  
(Waseca Co. 2004 Loan Rate)

## 2004 Soybean Herbicide Evaluation (Waseca)

### Giant Ragweed Site

Herbicide	Rate (pt/A)	Giant foxtail -----	Giant ragweed (% control) -----	Common lambsquarters -----	Yield (bu/A)	Cost -----	Income Over Herb (\$/A) -----
<u>Preemergence</u>							
1 Pendimax + Gangster	3 +3.6 oz	96	96	99	53.3	32.30	229
<u>Preplant incorporate 2X/POST I (4-inch weeds)</u>							
2 Prowl H2O / Raptor+UltraBlazer+NIS+AMS	43 oz / 4 oz+ 8 oz+0.25%+2.5 lb	96	20	99	11.9	44.52	14
3 Pusuit Plus / Rezult B + Rezult G + NIS + AMS	2.5 / 1.6 + 1.6 + 0.25% + 2.5 lb	99	28	99	20.5	38.11	62
4 Prowl H2O / Extreme+NIS+AMS	43oz / 3 pt+0.125%+2.5 lb	99	95	99	49.4	32.91	210
<u>Preemergence/ POST I (4-inch weeds)</u>							
5 Valor SX / FirstRate + Phoenix + V10137 + AMS	3 oz / 0.6 oz + 10 oz + 16 oz + 2 lb	97	87	99	47.3	-	-
6 Pemdimax / FirstRate+Select+Cobra+COC+AMS	3 / 0.3 oz + 8 oz + 6 oz + 1% + 2.5 lb	99	74	99	40.6	45.76	154
7 Boundary / Flexstar + Fusion + COC + AMS	1.5 pt / 16 oz + 8 oz + 1% + 2.5 lb	96	80	99	38.4	48.39	140
8 Authority / Flexstar + Assure + COC + AMS	5.3 oz / 16 oz + 9 oz + 1% + 2.5 lb	97	63	99	32.4	42.20	117
<u>Preemergence/ POST I (6-inch weeds)</u>							
9 InRRo / RoundupWeatherMax + AMS	4 / 22 oz + 2.5 lb	99	97	99	52.1	38.98	217
10 Prowl H2O + Outlook / Roundup WeatherMax	1 + 12.6 oz / 22 oz + 2.5 lb	99	96	99	52.1	47.25	209
11 Gangster/ Roundup WeatherMax+AMS	1.8 oz / 22 oz+2.5 lb	99	99	99	51.1	38.79	212
12 Boundary / Touchdown Total + AMS	1.25 pt / 24 oz + 2.5 lb	99	99	99	50.3	41.69	205
13 Valor SX / Roundup WeatherMax+AMS	2 oz / 22 oz+2.5 lb	99	93	99	48.1	36.83	200
14 Valor SX + Python / Roundup WeatherMax+AMS	1.5 oz + 0.5 oz / 22 oz + 2.5 lb	99	98	99	52.4	39.64	218
15 Authority / Roundup WeatherMax+AMS	4 oz / 22 oz+2.5 lb	99	96	99	49.2	35.52	206

**Table continued.** 2004 Soybean Herbicide Evaluation (Waseca) Giant Ragweed Site

Herbicide	Rate (pt/A)	Giant foxtail -----	Giant ragweed (% control)	Common lambsquarters -----	Yield (bu/A)	Cost -----	Income Over Herb (\$/A) -----
<u>POST I (4-inch weeds)</u>							
16 Flexstar + Fusion + HarmonyGT + COC + AMS	16 oz + 10 oz + 0.04 oz + 1% + 2.5 lb	93	43	99	25.7	31.29	95
17 Flexstar + Fusion + FirstRate + COC + AMS	16 oz + 10 oz + 0.3 oz + 1% + 2.5 lb	94	90	50	38.6	38.79	151
<u>POST I (4-inch weeds)/POST III(Canopy)</u>							
18 Roundup WeatherMax+AMS/ Roundup Weather Max+AMS	22 oz + 2.5 lb / 22 oz + 2.5 lb	99	99	99	51.2	39.98	211
<u>POST II (6-inch weeds)</u>							
19 GF 1279 + FirstRate + AMS	24 oz + 0.3 oz + 2.5 lb	99	92	99	47.3	-	-
20 Clearout 41Plus + AMS	32 oz + 2.5 lb	99	93	99	47.1	18.16	213
21 GF 1279 + AMS	24 oz + 2.5 lb	98	92	99	45.0	-	-
22 Roundup WeatherMax+AMS	22 oz + 2.5 lb	99	92	99	43.0	23.99	187
<u>Checks</u>							
23 Weedy	-	0	0	0	4.2	0.00	21
24 Hand-Weeded	-	100	100	100	47.9	0.00	235
<b>LSD(0.10)</b>		3	16	14	7.2		37

Soybean Price = \$4.91  
(Waseca Co. 2004 Loan Rate)



## 2004 Soybean Herbicide Evaluation (Waseca)

### Common Cocklebur Site

Herbicide	Rate (pt/A)	Giant	Common	Common	Common	Velvetleaf	Yield (bu/A)	Cost -----	Income	
		foxtail	cocklebur	ragweed	lambquarters				Over Herb (\$/A) -----	
<u>Preemergence</u>										
1 Pendimax + Gangster	3 +3.6 oz	86	84	94	99	99	41.1	32.30	169	
<u>Preplant incorporate 2X/POST I (4-inch weeds)</u>										
2 Prowl H2O / Raptor + UltraBlazer + NIS + AMS	43 oz / 4 oz+ 8 oz + 0.25%+2.5 lb	74	78	36	99	74	4.3	44.52	-24	
3 Pusuit Plus / Rezult B + Rezult G + NIS + AMS	2.5 / 1.6 + 1.6 + 0.25% + 2.5 lb	98	49	16	99	99	10.4	38.11	13	
4 Prowl H2O / Extreme + NIS + AMS	43 oz / 3 pt + 0.125% + 2.5 lb	99	93	86	91	97	24.5	32.91	87	
<u>Preemergence/ POST I (4-inch weeds)</u>										
5 Valor SX / FirstRate + Phoenix + V10137 + AMS	3 oz / 0.6 oz + 10 oz + 16 oz + 2 lb	98	98	99	99	99	28.7	-	-	
6 Pemdimax / FirstRate + Select + Cobra + COC + AMS	3 / 0.3 oz + 8 oz + 6 oz + 1% + 2.5 lb	98	94	90	91	57	28.9	45.76	96	
7 Boundary / Flexstar + Fusion + COC + AMS	1.5 pt / 16 oz + 8 oz + 1% + 2.5 lb	95	86	95	99	99	35.0	48.39	123	
8 Authority / Flexstar + Assure + COC + AMS	5.3 oz / 16 oz + 9 oz + 1% + 2.5 lb	99	93	97	99	99	34.5	42.20	127	
<u>Preemergence/ POST I (6-inch weeds)</u>										
9 InRRo / Roundup WeatherMax + AMS	4 / 22 oz + 2.5 lb	97	93	96	99	96	31.3	38.98	115	
10 Prowl H2O + Outlook / Roundup WeatherMax	1 + 12.6 oz / 22 oz + 2.5 lb	99	91	82	99	96	41.5	47.25	156	
11 Gangster/ Roundup WeatherMax + AMS	1.8 oz / 22 oz + 2.5 lb	94	96	99	99	99	50.7	38.79	210	
12 Boundary / Touchdown Total + AMS	1.25 pt / 24 oz + 2.5 lb	99	89	90	96	89	47.4	41.69	191	
13 Valor SX / Roundup WeatherMax + AMS	2 oz / 22 oz + 2.5 lb	95	97	99	99	94	47.1	36.83	194	
14 Valor SX + Python / Roundup WeatherMax + AMS	1.5 oz + 0.5 oz / 22 oz + 2.5 lb	94	98	95	99	99	49.0	39.64	201	
15 Authority / Roundup WeatherMax + AMS	4 oz / 22 oz + 2.5 lb	96	95	84	99	99	38.5	35.52	153	

**Table continued.** 2004 Soybean Herbicide Evaluation (Waseca) Common Cocklebur Site

Herbicide	Rate (pt/A)	Giant foxtail	Common cocklebur	Common ragweed	Common lambsquarters	Common Velvetleaf	Yield (bu/A)	Cost	Income Over Herb (\$/A)
<u>POST I (4-inch weeds)</u>									
16 Flexstar + Fusion + HarmonyGT + COC + AMS	16 oz + 10 oz + 0.04 oz + 1% + 2.5 lb	61	87	83	91	83	12.8	31.29	32
17 Flexstar + Fusion + FirstRate + COC + AMS	16 oz + 10 oz + 0.3 oz + 1% + 2.5 lb	67	95	80	41	68	16.9	38.79	44
<u>POST I (4-inch weeds)/POST III(Canopy)</u>									
18 Roundup WeatherMax + AMS/ Roundup Weather Max + AMS	22 oz + 2.5 lb / 22 oz + 2.5 lb	98	96	99	88	89	32.7	39.98	121
<u>POST II (6-inch weeds)</u>									
19 GF 1279 + FirstRate + AMS	24 oz + 0.3 oz + 2.5 lb	98	94	95	89	94	33.5	-	-
20 Clearout 41Plus + AMS	32 oz + 2.5 lb	98	96	89	86	85	33.6	18.16	147
21 GF 1279 + AMS	24 oz + 2.5 lb	98	96	87	79	57	33.7	-	-
22 Roundup WeatherMax + AMS	22 oz + 2.5 lb	97	96	91	91	65	32.4	23.99	135
<u>Checks</u>									
23 Weedy	-	0	0	0	0	0	1.0	0.00	5
24 Hand-Weeded	-	100	100	100	100	100	48.0	0.00	236
<b>LSD(0.10)</b>		9	10	15	14	24	6.6		33

Soybean Price = \$4.91  
(Waseca Co. 2004 Loan Rate)

## 2004 Soybean Herbicide Evaluation (Waseca)

### Tall Waterhemp Site

Herbicide	Rate (pt/A)	Giant foxtail --- (% control) ---	Tall waterhemp ---	Yield (bu/A)	Cost -----	Income Over Herb (\$/A) -----
<u>Preemergence</u>						
1 Pendimax + Gangster	3 +3.6 oz	61	73	37.1	32.30	150
<u>Preplant incorporate 2X/POST I (4-inch weeds)</u>						
2 Prowl H2O / Raptor + UltraBlazer + NIS+AMS	43 oz / 4 oz+ 8 oz + 0.25% + 2.5 lb	69	99	33.8	44.52	121
3 Pusuit Plus / Rezult B + Rezult G + NIS + AMS	2.5 / 1.6 + 1.6 + 0.25% + 2.5 lb	99	61	40.5	38.11	161
4 Prowl H2O / Extreme + NIS+AMS	43 oz / 3 pt + 0.125% + 2.5 lb	99	99	53.8	32.91	231
<u>Preemergence / POST I (4-inch weeds)</u>						
5 Valor SX / FirstRate + Phoenix + V10137 + AMS	3 oz / 0.6 oz + 10 oz + 16 oz + 2 lb	97	99	50.1	-	-
6 Pemdimax / FirstRate + Select + Cobra + COC + AMS	3 / 0.3 oz + 8 oz + 6 oz + 1% + 2.5 lb	99	99	48.5	45.76	192
7 Boundary / Flexstar + Fusion + COC + AMS	1.5 pt / 16 oz + 8 oz + 1% + 2.5 lb	95	97	50.1	48.39	198
8 Authority / Flexstar + Assure + COC + AMS	5.3 oz / 16 oz + 9 oz + 1% + 2.5 lb	93	99	44.8	42.20	178
<u>Preemergence / POST I (6-inch weeds)</u>						
9 InRRo / Roundup WeatherMax + AMS	4 / 22 oz + 2.5 lb	96	99	54.3	38.98	228
10 Prowl H2O + Outlook / Roundup WeatherMax	1 + 12.6 oz / 22 oz + 2.5 lb	95	96	49.7	47.25	197
11 Gangster/ Roundup WeatherMax + AMS	1.8 oz / 22 oz + 2.5 lb	94	99	49.7	38.79	205
12 Boundary / Touchdown Total + AMS	1.25 pt / 24 oz + 2.5 lb	99	98	53.8	41.69	223
13 Valor SX / Roundup WeatherMax + AMS	2 oz / 22 oz + 2.5 lb	97	99	54.9	36.83	233
14 Valor SX + Python / Roundup WeatherMax + AMS	1.5 oz + 0.5 oz / 22 oz + 2.5 lb	96	93	53.4	39.64	222
15 Authority / Roundup WeatherMax + AMS	4 oz / 22 oz + 2.5 lb	98	99	54.7	35.52	233
<u>POST I (4-inch weeds)</u>						
16 Flexstar + Fusion + HarmonyGT + COC + AMS	16 oz + 10 oz + 0.04 oz + 1% + 2.5 lb	92	85	45.1	31.29	190
17 Flexstar + Fusion + FirstRate + COC + AMS	16 oz + 10 oz + 0.3 oz + 1% + 2.5 lb	93	67	45.1	38.79	183

**Table continued.** 2004 Soybean Herbicide Evaluation (Waseca) Tall Waterhemp Site

Herbicide	Rate (pt/A)	Giant foxtail --- (% control) ---	Tall waterhemp ---	Yield (bu/A)	Cost -----	Income Over Herb (\$/A) -----
<u>POST I (4-inch weeds) / POST III(Canopy)</u>						
18 Roundup WeatherMax + AMS/ Roundup Weather Max + AMS	22 oz + 2.5 lb / 22 oz + 2.5 lb	99	99	50.8	39.98	209
<u>POST II (6-inch weeds)</u>						
19 GF 1279 + FirstRate + AMS	24 oz + 0.3 oz + 2.5 lb	99	99	53.1	-	-
20 Clearout 41Plus + AMS	32 oz + 2.5 lb	98	96	47.6	18.16	215
21 GF 1279 + AMS	24 oz + 2.5 lb	99	99	52.3	-	-
22 Roundup WeatherMax + AMS	22 oz + 2.5 lb	99	99	53.7	23.99	240
<u>Checks</u>						
23 Weedy	-	0	0	13.7	0.00	67
24 Hand-Weeded	-	100	100	54.7	0.00	268
<b>LSD(0.10)</b>		8	12	5.7		29

Soybean Price = \$4.91  
(Waseca Co. 2004 Loan Rate)

## 2004 Soybean Herbicide Evaluation (Waseca)

### Common Ragweed Site

Herbicide	Rate (pt/A)	Giant foxtail	Common ragweed ----- (% control)	Common lambquarters -----	Velevet- leaf -----	Yield (bu/A)	Cost -----	Income Over Herb (\$/A) -----
<u>Preemergence</u>								
1 Pendimax + Gangster	3 +3.6 oz	91	98	96	99	54.1	32.30	234
<u>Preplant incorporate 2X / POST I (4-inch weeds)</u>								
2 Prowl H2O / Raptor + UltraBlazer + NIS + AMS	43 oz / 4 oz+ 8 oz + 0.25% + 2.5 lb	96	24	99	99	46.9	44.52	186
3 Pusuit Plus / Rezult B + Rezult G + NIS + AMS	2.5 / 1.6 + 1.6 + 0.25% + 2.5 lb	99	33	99	99	49.4	38.11	205
4 Prowl H2O / Extreme + NIS + AMS	43 oz / 3 pt + 0.125% + 2.5 lb	99	98	99	99	57.1	32.91	248
<u>Preemergence / POST I (4-inch weeds)</u>								
5 Valor SX / FirstRate + Phoenix + V10137 + AMS	3 oz / 0.6 oz + 10 oz + 16 oz + 2 lb	95	99	99	99	57.5	-	-
6 Pemdimax / FirstRate + Select + Cobra + COC + AMS	3 / 0.3 oz + 8 oz + 6 oz + 1% + 2.5 lb	97	98	94	99	55.8	45.76	228
7 Boundary / Flexstar + Fusion + COC + AMS	1.5 pt / 16 oz + 8 oz + 1% + 2.5 lb	95	99	99	99	56.1	48.39	227
8 Authority / Flexstar + Assure + COC + AMS	5.3 oz / 16 oz + 9 oz + 1% + 2.5 lb	98	99	98	99	57.4	42.20	240
<u>Preemergence / POST I (6-inch weeds)</u>								
9 InRRo / Roundup WeatherMax + AMS	4 / 22 oz + 2.5 lb	99	99	99	99	58.4	38.98	248
10 Prowl H2O + Outlook / Roundup WeatherMax	1 + 12.6 oz / 22 oz + 2.5 lb	99	99	99	99	58.2	47.25	238
11 Gangster/ Roundup WeatherMax + AMS	1.8 oz / 22 oz + 2.5 lb	99	99	99	99	61.6	38.79	264
12 Boundary / Touchdown Total + AMS	1.25 pt / 24 oz + 2.5 lb	99	99	99	99	61.5	41.69	261
13 Valor SX / Roundup WeatherMax + AMS	2 oz / 22 oz + 2.5 lb	99	99	99	99	56.9	36.83	242
14 Valor SX + Python / Roundup WeatherMax + AMS	1.5 oz + 0.5 oz / 22 oz + 2.5 lb	99	99	99	99	59.8	39.64	254
15 Authority / Roundup WeatherMax + AMS	4 oz / 22 oz + 2.5 lb	99	99	99	99	57.3	35.52	246

**Table continued.** 2004 Soybean Herbicide Evaluation (Waseca) Common Ragweed Site

Herbicide	Rate (pt/A)	Giant foxtail	Common ragweed	Common lambsquarters	Velevet- leaf	Yield (bu/A)	Cost	Income Over Herb (\$/A)
<u>POST I (4-inch weeds)</u>								
16 Flexstar + Fusion + HarmonyGT + COC + AMS	16 oz + 10 oz + 0.04 oz + 1% + 2.5 lb	93	93	88	99	54.4	31.29	236
17 Flexstar + Fusion + FirstRate + COC + AMS	16 oz + 10 oz + 0.3 oz + 1% + 2.5 lb	94	96	60	99	53.8	38.79	225
<u>POST I (4-inch weeds) / POST III(Canopy)</u>								
18 Roundup WeatherMax + AMS/ Roundup Weather Max + AMS	22 oz + 2.5 lb / 22 oz + 2.5 lb	99	99	99	99	56.9	39.98	239
<u>POST II (6-inch weeds)</u>								
19 GF 1279 + FirstRate + AMS	24 oz + 0.3 oz + 2.5 lb	98	99	91	99	53.5	-	-
20 Clearout 41Plus + AMS	32 oz + 2.5 lb	99	99	99	99	57.0	18.16	262
21 GF 1279 + AMS	24 oz + 2.5 lb	99	99	99	99	56.7	-	-
22 Roundup WeatherMax + AMS	22 oz + 2.5 lb	99	99	99	99	54.7	23.99	245
<u>Checks</u>								
23 Weedy	-	0	0	0	0	14.2	0.00	70
24 Hand-Weeded	-	100	100	100	100	57.5	0.00	283
<b>LSD(0.10)</b>		3	8	10	1	3.9		19

Soybean Price = \$4.91  
(Waseca Co. 2004 Loan Rate)