

2013 Soybean Herbicide Evaluation - Waseca

Herbicide	Rate	Gift	Corw	Pre			Final					Yield	cost	returns	
				Colq	Vele	Rrpw	Gift	Corw	colq	Vele	Rrpw				
<u>Preemergence/ POST II (4-inch weeds)</u>		(Product/A)		% control								bu/A	\$/A		
1	Authority First / Roundup PowerMax + AMS	6.4 oz / 32 oz + 3 qt	98	98	98	98	98	99	99	99	99	99	60.4	68.71	687
2	Boundary / Flexstar GT 3.5 + MSO + AMS	1.5 pt / 3.5 pt + 0.5% + 3 qt	75	53	95	95	95	99	99	99	99	99	57.7	66.82	655
3	Boundary / Touchdown Total + AMS	1.5 pt / 28 oz + 3 qt	97	97	95	96	96	99	99	99	99	99	57.7	50.92	670
4	Gangster / Roundup PowerMax + AMS	2.4 oz / 32 oz + 3 qt	97	95	97	96	95	99	99	99	99	99	57.4	56.47	661
5	Fierce / Roundup PowerMax + AMS	3 oz / 32 oz + 3 qt	96	96	97	97	97	99	99	99	99	99	59.3	55.36	686
6	Valor SX / Roundup PowerMax + AMS	3 oz / 32 oz + 3 qt	64	65	96	95	95	99	99	99	99	99	54.3	55.02	624
7	Fierce + Classic / Roundup PowerMax + AMS	3 oz + .33 oz / 32 oz + 3 qt	74	95	96	96	87	99	99	99	99	99	57.9	60.60	663
8	Optill Pro / Roundup PowerMax + NIS + AMS	12 oz / 32 oz + .25% + 3 qt	97	96	97	94	96	99	99	99	99	99	58.3	57.54	671
9	Verdict + Outlook / Roundup PowerMax + NIS + AMS	5 oz + 10 oz / 32 oz + 0.25% + 3 qt	76	60	55	95	95	99	99	99	99	99	57.7	56.51	665
10	Zidua + Verdict / Roundup PowerMax + NIS + AMS	2 oz + 5 oz / 32 oz + 0.25% + 3 qt	96	95	96	95	95	99	99	99	99	99	56.4	61.07	644
11	Sonic / Durango DMA + AMS	3 oz / 24 oz + 3 qt	96	96	95	98	98	99	99	99	99	99	51.7	49.50	596
12	Sonic / Durango DMA + AMS	4.5 oz / 24 oz + 3 qt	96	95	96	97	96	99	99	99	99	99	56.8	56.68	653
13	Enlite / Abundit Extra + AMS	2.8 oz / 32 oz + 3 qt	50	95	96	96	96	99	99	99	99	99	60.1	53.00	698
14	Enlite / Abundit S + Harmony SG + AMS	2.8 oz / 32 oz + 0.125 oz + 3 qt	48	63	63	63	63	99	99	99	99	99	55.5	57.36	637
15	Warrant / Roundup WeatherMax + AMS	3 pt + 22 oz + 3 qt	80	65	63	68	63	97	99	99	99	99	57.5	51.07	667
<u>Preemergence/ POST I (2-inch weeds)</u>															
16	Valor SX / Warrant + Roundup PowerMax + AMS	2 oz / 3 pt + 32 oz + 3 qt	60	95	95	96	97	99	99	99	99	99	59.5	62.98	681
<u>POST I (2-inch weeds)</u>															
17	Marvel + Roundup PowerMax + NIS + AMS	6 oz + 32 oz + 0.25% + 3 qt	0	0	0	0	0	99	99	90	99	99	54.5	41.98	640
<u>POST I (2-inch weeds)/POST III(Canopy)</u>															
18	Roundup WeatherMax + AMS / Roundup WeatherMax + AMS	32 oz + 3 qt / 32 oz + 3 qt	0	0	0	0	0	99	99	98	98	94	57.8	54.03	668
19	Durango DMA + First Rate + AMS / Durango DMA + AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	0	0	0	0	0	99	99	99	99	99	58.8	57.75	677
20	Flexstar GT 3.5 + MSO + AMS / Touchdown Total + AMS	3.5 pt + 0.5% + 3 qt / 28 oz + 3 qt	0	0	0	0	0	99	99	99	99	99	58.7	64.55	669
21	Synchrony + Abundit Extra + AMS / Abundit Extra + AMS	0.375 oz + 32 oz + 3 qt / 32 oz + 3 qt	0	0	0	0	0	99	99	98	99	99	57.7	52.35	669
22	Roundup PowerMax + Cobra + COC + AMS / Roundup PowerMax + AMS	32 oz + 12.5 oz + 1 pt + 3 qt / 32 oz 3 qt	0	0	0	0	0	99	99	95	99	97	58.0	71.57	654
<u>Checks</u>															
23	Weedy Check	-	0	0	0	0	0	0	0	0	0	0	44.8	0.00	559
24	Weed Free	-	99	99	99	99	99	99	99	99	99	99	57.0	0.00	713
LSD(0.10)			7	6	4	3	5	1	1	2	1	3	4.3		53

2013 Soybean Herbicide Evaluation - Lamberton

Herbicide	Rate	foxtails	Pre Tawh	Colq	Foxtails	Final Tawh	Colq	Yield	cost	returns	
<u>Preemergence/ POST II (4-inch weeds)</u>		<u>(Product/A)</u>				<u>% control</u>			<u>bu/A</u>	<u>\$/A</u>	
1	Authority First / Roundup PowerMax + AMS	6.4 oz / 32 oz + 3 qt	61	75	75	100	100	100	50.2	68.71	559
2	Boundary / Flexstar GT 3.5 + MSO + AMS	1.5 pt / 3.5 pt + 0.5% + 3 qt	95	78	100	100	100	100	49.7	66.82	555
3	Boundary / Touchdown Total + AMS	1.5 pt / 28 oz + 3 qt	98	100	100	100	100	100	48.6	50.92	557
4	Gangster / Roundup PowerMax + AMS	2.4 oz / 32 oz + 3 qt	59	100	100	99	100	100	48.6	56.47	551
5	Fierce / Roundup PowerMax + AMS	3 oz / 32 oz + 3 qt	95	100	100	99	100	100	50.9	55.36	581
6	Valor SX / Roundup PowerMax + AMS	3 oz / 32 oz + 3 qt	86	75	75	100	100	100	46.7	55.02	528
7	Fierce + Classic / Roundup PowerMax + AMS	3 oz + .33 oz / 32 oz + 3 qt	70	75	75	100	100	100	51.7	60.60	586
8	Optill Pro / Roundup PowerMax + NIS + AMS	12 oz / 32 oz + .25% + 3 qt	98	78	100	100	100	100	51.1	57.54	581
9	Verdict + Outlook / Roundup PowerMax + NIS + AMS	5 oz + 10 oz / 32 oz + 0.25% + 3 qt	95	100	100	100	100	100	49.6	56.51	564
10	Zidua + Verdict / Roundup PowerMax + NIS + AMS	2 oz + 5 oz / 32 oz + 0.25% + 3 qt	96	75	75	100	100	100	52.4	61.07	593
11	Sonic / Durango DMA + AMS	3 oz / 24 oz + 3 qt	0	98	100	100	100	100	52.6	49.50	607
12	Sonic / Durango DMA + AMS	4.5 oz / 24 oz + 3 qt	23	100	100	100	100	100	49.4	56.68	561
13	Enlite / Abundit Extra + AMS	2.8 oz / 32 oz + 3 qt	60	100	100	98	100	100	53.9	53.00	620
14	Enlite / Abundit S + Harmony SG + AMS	2.8 oz / 32 oz + 0.125 oz + 3 qt	58	100	100	98	100	100	48.6	57.36	550
15	Warrant / Roundup WeatherMax + AMS	3 pt + 22 oz + 3 qt	93	100	98	100	100	100	52.9	51.07	610
<u>Preemergence/ POST I (2-inch weeds)</u>											
16	Valor SX / Warrant + Roundup PowerMax + AMS	2 oz / 3 pt + 32 oz + 3 qt	70	100	100	100	100	100	50.2	62.98	564
<u>POST I (2-inch weeds)</u>											
17	Marvel + Roundup PowerMax + NIS + AMS	6 oz + 32 oz + 0.25% + 3 qt	0	0	0	100	95	100	49.4	41.98	576
<u>POST I (2-inch weeds)/POST III(Canopy)</u>											
18	Roundup WeatherMax + AMS / Roundup WeatherMax + AMS	32 oz + 3 qt / 32 oz + 3 qt	0	0	0	100	100	100	49.2	54.03	561
19	Durango DMA + First Rate + AMS / Durango DMA + AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	0	0	0	100	98	100	51.3	57.75	584
20	Flexstar GT 3.5 + MSO + AMS / Touchdown Total + AMS	3.5 pt + 0.5% + 3 qt / 28 oz + 3 qt	0	0	0	100	100	100	44.9	64.55	497
21	Synchrony + Abundit Extra + AMS / Abundit Extra + AMS	0.375 oz + 32 oz + 3 qt / 32 oz + 3 qt	0	0	0	100	100	100	48.4	52.35	552
22	Roundup PowerMax + Cobra + COC + AMS / Roundup PowerMax + AMS	32 oz + 12.5 oz + 1 pt + 3 qt / 32 oz 3 qt	0	0	0	100	100	100	43.3	71.57	469
<u>Checks</u>											
23	Weedy Check	-	0	0	0	0	0	0	41.2	0.00	515
24	Weed Free	-	100	100	100	100	100	100	48.0	0.00	600
LSD(0.10)			25	29	24	1	2	1	ns		ns

2013 Soybean Herbicide Evaluation - Rochester

Herbicide	Rate	Pre				Final				Yield	cost	returns
		Grass	Girw	Colq	Cowh	Grass	Girw	Colq	Cowh			
<u>Preemergence/ POST II (4-inch weeds)</u>	<u>(Product/A)</u>	% control								bu/A		\$/A
1 Authority First / Roundup PowerMax + AMS	6.4 oz / 32 oz + 3 qt	99	70	99	99	99	96	99	99	38.9	68.71	418
2 Boundary / Flexstar GT 3.5 + MSO + AMS	1.5 pt / 3.5 pt + 0.5% + 3 qt	99	13	99	99	99	96	97	99	36.9	66.82	394
3 Boundary / Touchdown Total + AMS	1.5 pt / 28 oz + 3 qt	99	13	99	99	99	91	92	97	40.9	50.92	460
4 Gangster / Roundup PowerMax + AMS	2.4 oz / 32 oz + 3 qt	99	81	99	99	99	96	98	99	40.1	56.47	444
5 Fierce / Roundup PowerMax + AMS	3 oz / 32 oz + 3 qt	99	41	99	99	99	94	97	99	39.5	55.36	438
6 Valor SX / Roundup PowerMax + AMS	3 oz / 32 oz + 3 qt	99	50	99	99	99	95	98	99	41.2	55.02	460
7 Fierce + Classic / Roundup PowerMax + AMS	3 oz + .33 oz / 32 oz + 3 qt	99	65	99	99	99	93	98	99	41.0	60.60	452
8 Optill Pro / Roundup PowerMax + NIS + AMS	12 oz / 32 oz + .25% + 3 qt	99	63	99	99	99	96	99	96	36.7	57.54	401
9 Verdict + Outlook / Roundup PowerMax + NIS + AMS	5 oz + 10 oz / 32 oz + 0.25% + 3 qt	99	52	91	99	99	93	87	96	39.0	56.51	432
10 Zidua + Verdict / Roundup PowerMax + NIS + AMS	2 oz + 5 oz / 32 oz + 0.25% + 3 qt	99	55	97	99	99	95	95	99	40.5	61.07	445
11 Sonic / Durango DMA + AMS	3 oz / 24 oz + 3 qt	99	63	99	99	99	94	99	99	44.8	49.50	511
12 Sonic / Durango DMA + AMS	4.5 oz / 24 oz + 3 qt	99	62	99	99	99	96	99	98	41.2	56.68	459
13 Enlite / Abundit Extra + AMS	2.8 oz / 32 oz + 3 qt	99	60	99	99	99	91	99	98	40.8	53.00	457
14 Enlite / Abundit S + Harmony SG + AMS	2.8 oz / 32 oz + 0.125 oz + 3 qt	99	60	99	99	99	94	99	98	40.2	57.36	445
15 Warrant / Roundup WeatherMax + AMS	3 pt + 22 oz + 3 qt	99	0	31	96	99	92	98	99	42.0	51.07	474
<u>Preemergence/ POST I (2-inch weeds)</u>												
16 Valor SX / Warrant + Roundup PowerMax + AMS	2 oz / 3 pt + 32 oz + 3 qt	99	91	99	99	99	80	96	99	33.6	62.98	358
<u>POST I (2-inch weeds)</u>												
17 Marvel + Roundup PowerMax + NIS + AMS	6 oz + 32 oz + 0.25% + 3 qt	99	89	99	99	98	78	80	99	29.6	41.98	327
<u>POST I (2-inch weeds)/POST III(Canopy)</u>												
18 Roundup WeatherMax + AMS / Roundup WeatherMax + AMS	32 oz + 3 qt / 32 oz + 3 qt	99	86	98	98	99	99	98	99	38.7	54.03	430
19 Durango DMA + First Rate + AMS / Durango DMA + AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	99	88	99	98	99	99	98	99	43.7	57.75	488
20 Flexstar GT 3.5 + MSO + AMS / Touchdown Total + AMS	3.5 pt + 0.5% + 3 qt / 28 oz + 3 qt	99	90	99	99	99	99	98	99	42.3	64.55	465
21 Synchrony + Abundit Extra + AMS / Abundit Extra + AMS	0.375 oz + 32 oz + 3 qt / 32 oz + 3 qt	99	80	98	98	98	98	94	99	42.8	52.35	482
22 Roundup PowerMax + Cobra + COC + AMS / Roundup PowerMax + AMS	32 oz + 12.5 oz + 1 pt + 3 qt / 32 oz 3 qt	99	90	98	99	99	98	95	98	39.1	71.57	417
<u>Checks</u>												
23 Weedy Check	-	0	0	0	0	0	0	0	0	8.4	0.00	105
24 Weed Free	-	100	100	100	100	100	100	100	100	43.6	0.00	545
	LSD(0.10)	1	6	2	2	1	3	3	1	6.2		78

2013 Soybean Herbicide Evaluation - Average Over All Locations

Herbicide	Rate	Pre								Final				Yield	cost	returns	S.E.		
		2 Foxtail	1 Corw	2 Colq	1 Girw	1 Tawh	1 Vele	1 Rrpw	3 Foxtail	1 Corw	3 colq	1 Girw	2 Tawh					1 Vele	1 Rrpw
<u>Preemergence/ POST II (4-inch weeds)</u>		%											bu/A	\$/A					
1 Authority First / Roundup PowerMax + AMS	6.4 oz / 32 oz + 3 qt	80	98	87	70	75	98	98	99	99	99	96	100	99	99	49.9	68.71	555	35.5
2 Boundary / Flexstar GT 3.5 + MSO + AMS	1.5 pt / 3.5 pt + 0.5% + 3 qt	85	53	98	13	78	95	95	99	99	99	96	99	99	99	48.1	66.82	534	39.8
3 Boundary / Touchdown Total + AMS	1.5 pt / 28 oz + 3 qt	98	97	98	13	100	96	96	99	99	97	91	99	99	99	49.1	50.92	562	37.2
4 Gangster / Roundup PowerMax + AMS	2.4 oz / 32 oz + 3 qt	78	95	99	81	100	96	95	99	99	99	96	99	99	99	48.7	56.47	552	30.7
5 Fierce / Roundup PowerMax + AMS	3 oz / 32 oz + 3 qt	96	96	99	41	100	97	97	99	99	99	94	100	99	99	49.9	55.36	568	36.6
6 Valor SX / Roundup PowerMax + AMS	3 oz / 32 oz + 3 qt	75	65	86	50	75	95	95	99	99	99	95	100	99	99	47.4	55.02	537	21.4
7 Fierce + Classic / Roundup PowerMax + AMS	3 oz + .33 oz / 32 oz + 3 qt	72	95	86	65	75	96	87	99	99	99	93	99	99	99	50.2	60.60	567	28.4
8 Optill Pro / Roundup PowerMax + NIS + AMS	12 oz / 32 oz + .25% + 3 qt	98	96	99	63	78	94	96	99	99	99	96	98	99	99	48.7	57.54	551	36.7
9 Verdict + Outlook / Roundup PowerMax + NIS + AMS	5 oz + 10 oz / 32 oz + 0.25% + 3 qt	86	60	78	52	100	95	95	99	99	95	93	98	99	99	48.8	56.51	553	34.6
10 Zidua + Verdict / Roundup PowerMax + NIS + AMS	2 oz + 5 oz / 32 oz + 0.25% + 3 qt	96	95	86	55	75	95	95	99	99	98	95	100	99	99	49.8	61.07	561	31.0
11 Sonic / Durango DMA + AMS	3 oz / 24 oz + 3 qt	48	96	98	63	98	98	98	99	99	99	94	99	99	99	49.7	49.50	571	22.0
12 Sonic / Durango DMA + AMS	4.5 oz / 24 oz + 3 qt	59	95	98	62	100	97	96	99	99	99	96	99	99	99	49.1	56.68	558	32.4
13 Enlite / Abundit Extra + AMS	2.8 oz / 32 oz + 3 qt	55	95	98	60	100	96	96	99	99	99	91	99	99	99	51.6	53.00	592	33.4
14 Enlite / Abundit S + Harmony SG + AMS	2.8 oz / 32 oz + 0.125 oz + 3 qt	53	63	81	60	100	63	63	99	99	99	94	99	99	99	48.1	57.36	544	32.3
15 Warrant / Roundup WeatherMax + AMS	3 pt + 22 oz + 3 qt	87	65	80	0	100	68	63	99	99	99	92	99	99	99	50.8	51.07	584	29.2
<u>Preemergence/ POST I (2-inch weeds)</u>		%											bu/A	\$/A					
16 Valor SX / Warrant + Roundup PowerMax + AMS	2 oz / 3 pt + 32 oz + 3 qt	65	95	97	91	100	96	97	99	99	98	80	100	99	99	47.8	62.98	534	42.5
<u>POST I (2-inch weeds)</u>		%											bu/A	\$/A					
17 Marvel + Roundup PowerMax + NIS + AMS	6 oz + 32 oz + 0.25% + 3 qt	0	0	0	89	0	0	0	99	99	90	78	97	99	99	44.5	41.98	514	43.4
<u>POST I (2-inch weeds)/POST III(Canopy)</u>		%											bu/A	\$/A					
18 Roundup WeatherMax + AMS / Roundup WeatherMax + AMS	32 oz + 3 qt / 32 oz + 3 qt	0	0	0	86	0	0	0	99	99	99	99	99	98	94	48.6	54.03	553	31.5
19 Durango DMA + First Rate + AMS / Durango DMA + AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	0	0	0	88	0	0	0	99	99	99	99	98	99	99	51.3	57.75	583	29.2
20 Flexstar GT 3.5 + MSO + AMS / Touchdown Total + AMS	3.5 pt + 0.5% + 3 qt / 28 oz + 3 qt	0	0	0	90	0	0	0	99	99	99	99	100	99	99	48.6	64.55	543	32.6
21 Synchrony + Abundit Extra + AMS / Abundit Extra + AMS	0.375 oz + 32 oz + 3 qt / 32 oz + 3 qt	0	0	0	80	0	0	0	99	99	97	98	99	99	99	49.6	52.35	568	25.9
22 Roundup PowerMax + Cobra + COC + AMS / Roundup PowerMax + AMS	32 oz + 12.5 oz + 1 pt + 3 qt / 32 oz + 3 qt	0	0	0	90	0	0	0	99	99	96	98	99	99	97	46.8	71.57	513	33.2
<u>Checks</u>		%											bu/A	\$/A					
23 Weedy Check	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.4	0.00	393	63.4
24 Weed Free	-	100	99	100	100	100	99	99	100	99	100	100	100	99	99	49.5	0.00	619	25.5
LSD(0.10)		13	6	12	6	29	3	5	1	1	1	3	1	1	3	3.2		39	