

2016 Soybean Herbicide Evaluation - Averages of the three locations

Soybean @ \$8.75 / bushel

Herbicide	Rate	Pre						Final						Yield	cost	returns	
		Grass	Corw	Girw	Colq	Vele	Amar	Grass	Corw	Girw	Colq	Vele	Amar				
		3	1	1	2	1	3	3	1	1	3	1	3				3
Preemergence/ POST I (21-28 DAP)		(Product/A)						% control						bu/A		\$/A	
Boundary / Flexstar GT 3.5 + MSO + AMS	1.75 pt / 3.5 pt + 1% + 1.5 qt	96	93	3	73	95	97	98	99	97	99	99	99	62.5	65.53	482	
Rowel / Roundup PowerMax + Warrant + AMS	3 oz / 32 oz + 1.9 qt + 1.5 qt	89	91	26	84	95	98	98	97	97	99	99	99	62.1	70.38	473	
Preemergence/ POST II (2" weeds)																	
BroadAxe XC / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	25 oz / 1 pt + 3.5 pt + 1% + 1.5 qt	97	91	5	73	95	98	99	99	99	99	99	99	59.7	85.24	437	
Boundary / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	1.75 pt / 1 pt + 3.5 pt + 1% + 1.5 qt	96	93	0	73	95	98	99	99	99	99	99	99	58.9	79.93	436	
Authority First / Roundup PowerMax + Warrant Ultra + MSO + AMS	6.4 oz / 32 oz + 48 oz + 1% + 1.5 qt	84	93	1	93	95	98	99	99	98	99	99	99	60.1	89.91	436	
Preemergence/ POST III (4" weeds)																	
Rowel / Roundup PowerMax + WarrantUltra + MSO + AMS	3 oz / 32 oz + 48 oz + 1% + 1.5 qt	88	93	23	85	95	97	99	99	99	99	99	96	59.4	76.53	443	
Rowel / Warrant + Cobra + Roundup PowerMax + MSO + AMS	3 oz / 1.9 qt + 10 oz + 32 oz + 0.5 qt + 1.5 qt	86	93	24	84	95	94	99	99	97	99	99	99	59.4	89.34	430	
Authority First / Roundup PowerMax + AMS	6.4 oz / 32 oz + 1.5 qt	92	95	0	91	95	97	99	99	98	99	99	99	64.2	66.80	495	
Authority Assist / Roundup PowerMax + AMS	12 oz / 32 oz + 1.5 qt	93	51	5	80	95	98	99	99	94	99	99	99	64.5	69.03	495	
Authority First / Roundup PowerMax + AnthemMaxx + AMS	6.4 oz / 32 oz + 2.5 oz + 1.5 qt	95	81	0	92	95	98	99	99	98	99	99	99	63.5	81.76	473	
Fierce + FirstRate / Roundup PowerMax + AMS	3 oz + 0.3 oz / 32 oz + 1.5 qt	93	95	23	91	95	98	99	99	98	99	99	99	64.1	67.48	494	
Fierce + metribuzin / Roundup PowerMax + AMS	3 oz + 4 oz / 32 oz + 1.5 qt	94	93	33	85	95	97	99	99	95	99	99	98	62.3	58.51	487	
Zidua PRO / Roundup PowerMax + NIS + AMS	4.5 oz / 32 oz + 0.25% + 1.5 qt	85	93	4	76	95	98	98	99	93	99	99	99	61.7	51.02	488	
Verdict + Zidua / Roundup PowerMax + NIS + AMS	5 oz + 2.3 oz / 32 oz + 0.25% + 1.5 qt	79	94	5	80	95	98	98	99	96	99	99	99	64.6	55.83	509	
Verdict + metribuzin / Roundup PowerMax + NIS + AMS	5 oz + 5 oz / 32 oz + 0.25% + 1.5 qt	82	95	4	81	95	98	98	99	95	99	99	97	67.0	47.96	539	
Sonic / Durango DMA + AMS	4.5 oz / 32 oz + 1.5 qt	89	95	0	89	95	97	99	99	96	99	99	98	64.1	56.60	504	
Surveil / Durango DMA + AMS	2.8 oz / 32 oz + 1.5 qt	88	95	25	94	95	97	99	99	99	99	99	95	64.2	49.89	512	
Sonic / Durango DMA + Flexstar + COC + AMS	4.5 oz / 32 oz +12 oz + 0.5% + 1.5 qt	88	95	4	89	95	98	99	99	97	99	99	99	62.7	61.24	487	
Enlite / Abundit Extra + Cinch + AMS	2.8 oz / 32 oz + 1 pt + 1.5 qt	79	95	15	84	95	94	98	99	92	99	99	97	65.5	65.61	507	
Enlite / Abundit Extra + AMS	2.8 oz / 32 oz + 1.5 qt	84	95	11	82	95	97	98	99	93	99	99	97	63.7	49.35	508	
POST II (2-inch weeds) / POST IV (Late Post)																	
Roundup PowerMax + Cobra + COC + AMS / Roundup PowerMax + AMS	32 oz + 8 oz + 1 pt + 1.5 qt / 32 oz + 1.5 qt	0	0	0	0	0	0	99	99	99	99	99	99	60.6	58.26	472	
Roundup PowerMax + Anthem Maxx + COC + AMS / Roundup PowerMax + AMS	32 oz + 12 oz + 1 pt + 1.5 qt / 32 oz + 1.5 qt	0	0	0	0	0	0	99	99	98	99	99	97	59.9	59.67	464	
Checks																	
Weedy Check	-	0	0	0	0	0	0	0	0	0	0	0	0	32.2	0.00	282	
Weed Free	-	100	100	100	100	100	100	100	100	100	100	100	100	65.2	0.00	571	
LSD(0.10)		3	6	5	2	1	2	1	1	2	1	1	3	2.6		23	

2016 Soybean Herbicide Evaluation - Lamberton

Soybean @ \$8.75 / bushel

Herbicide	Rate	Grass	Pre Tawh	Colq	Grass	Final Tawh	Colq	Yield
Preemergence/ POST I (21-28 DAP)	(Product/A)			% control				bu/A
1 Boundary / Flexstar GT 3.5 + MSO + AMS	1.75 pt / 3.5 pt + 1% + 1.5 qt	99	97	99	99	99	99	60.7
2 Rowel / Roundup PowerMax + Warrant + AMS	3 oz / 32 oz + 1.9 qt + 1.5 qt	87	99	99	99	99	99	60.1
Preemergence/ POST II (2" weeds)								
3 BroadAxe XC / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	25 oz / 1 pt + 3.5 pt + 1% + 1.5 qt	99	99	99	99	99	99	61.1
4 Boundary / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	1.75 pt / 1 pt + 3.5 pt + 1% + 1.5 qt	99	99	99	99	99	99	60.4
5 Authority First / Roundup PowerMax + Warrant Ultra + MSO + AMS	6.4 oz / 32 oz + 48 oz + 1% + 1.5 qt	97	99	99	99	98	99	60.6
Preemergence/ POST III (4" weeds)								
6 Rowel / Roundup PowerMax + WarrantUltra + MSO + AMS	3 oz / 32 oz + 48 oz + 1% + 1.5 qt	99	97	99	99	97	99	61.6
7 Rowel / Warrant + Cobra + Roundup PowerMax + MSO + AMS	3 oz / 1.9 qt + 10 oz + 32 oz + 0.5 qt + 1.5 qt	99	89	99	99	98	99	59.8
8 Authority First / Roundup PowerMax + AMS	6.4 oz / 32 oz + 1.5 qt	97	98	99	99	99	99	62.4
9 Authority Assist / Roundup PowerMax + AMS	12 oz / 32 oz + 1.5 qt	99	99	99	99	98	99	62.7
10 Authority First / Roundup PowerMax + AnthemMaxx + AMS	6.4 oz / 32 oz + 2.5 oz + 1.5 qt	96	99	99	99	99	99	62.7
11 Fierce + FirstRate / Roundup PowerMax + AMS	3 oz + 0.3 oz / 32 oz + 1.5 qt	99	99	99	99	98	99	62.4
12 Fierce + metribuzin / Roundup PowerMax + AMS	3 oz + 4 oz / 32 oz + 1.5 qt	99	98	99	99	96	99	61.0
13 Zidua PRO / Roundup PowerMax + NIS + AMS	4.5 oz / 32 oz + 0.25% + 1.5 qt	99	99	99	99	99	99	59.5
14 Verdict + Zidua / Roundup PowerMax + NIS + AMS	5 oz + 2.3 oz / 32 oz + 0.25% + 1.5 qt	99	99	99	99	99	99	61.6
15 Verdict + metribuzin / Roundup PowerMax + NIS + AMS	5 oz + 5 oz / 32 oz + 0.25% + 1.5 qt	99	99	99	99	97	99	63.9
16 Sonic / Durango DMA + AMS	4.5 oz / 32 oz + 1.5 qt	99	99	99	99	96	99	64.2
17 Surveil / Durango DMA + AMS	2.8 oz / 32 oz + 1.5 qt	97	97	99	99	86	99	62.5
18 Sonic / Durango DMA + Flexstar + COC + AMS	4.5 oz / 32 oz + 12 oz + 0.5% + 1.5 qt	97	99	99	99	99	99	63.0
19 Enlite / Abundit Extra + Cinch + AMS	2.8 oz / 32 oz + 1 pt + 1.5 qt	86	89	99	99	92	99	64.8
20 Enlite / Abundit Extra + AMS	2.8 oz / 32 oz + 1.5 qt	96	98	99	99	94	99	64.6
POST II (2-inch weeds) / POST IV (Late Post)								
Roundup PowerMax + Cobra + COC + AMS /	32 oz + 8 oz + 1 pt + 1.5 qt /							
21 Roundup PowerMax + AMS	32 oz + 1.5 qt	0	0	0	99	99	99	58.4
Roundup PowerMax + Anthem Maxx + COC + AMS /	32 oz + 12 oz + 1 pt + 1.5 qt /							
22 Roundup PowerMax + AMS	32 oz + 1.5 qt	0	0	0	99	97	99	59.8
Checks								
23 Weedy Check	-	0	0	0	0	0	0	56.6
24 Weed Free	-	99	99	99	99	99	99	63.6
LSD(0.10)		8	6	1	1	7	1	2.5

2016 Soybean Herbicide Evaluation - Rochester

Soybean @ \$8.75 / bushel

		Pre				Final				
Herbicide	Rate	Grass	Girw	Colq	Tawh	Grass	Girw	Colq	Tawh	Yield
Preemergence/ POST I (21-28 DAP)		(Product/A)				% control				bu/A
1	Boundary / Flexstar GT 3.5 + MSO + AMS	1.75 pt / 3.5 pt + 1% + 1.5 qt	99	3	24	99	99	97	99	58.8
2	Rowel / Roundup PowerMax + Warrant + AMS	3 oz / 32 oz + 1.9 qt + 1.5 qt	98	26	58	99	98	97	99	58.3
Preemergence/ POST II (2" weeds)										
3	BroadAxe XC / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	25 oz / 1 pt + 3.5 pt + 1% + 1.5 qt	99	5	25	99	99	99	99	53.3
4	Boundary / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	1.75 pt / 1 pt + 3.5 pt + 1% + 1.5 qt	99	0	25	99	99	99	99	53.2
5	Authority First / Roundup PowerMax + Warrant Ultra + MSO + AMS	6.4 oz / 32 oz + 48 oz + 1% + 1.5 qt	99	1	84	99	99	98	99	52.0
Preemergence/ POST III (4" weeds)										
6	Rowel / Roundup PowerMax + WarrantUltra + MSO + AMS	3 oz / 32 oz + 48 oz + 1% + 1.5 qt	99	23	60	99	99	99	99	49.8
7	Rowel / Warrant + Cobra + Roundup PowerMax + MSO + AMS	3 oz / 1.9 qt + 10 oz + 32 oz + 0.5 qt + 1.5 qt	98	24	58	99	98	97	99	51.5
8	Authority First / Roundup PowerMax + AMS	6.4 oz / 32 oz + 1.5 qt	99	0	78	99	99	98	99	62.8
9	Authority Assist / Roundup PowerMax + AMS	12 oz / 32 oz + 1.5 qt	99	5	45	99	99	94	99	62.8
10	Authority First / Roundup PowerMax + AnthemMaxx + AMS	6.4 oz / 32 oz + 2.5 oz + 1.5 qt	99	0	81	99	99	98	99	61.6
11	Fierce + FirstRate / Roundup PowerMax + AMS	3 oz + 0.3 oz / 32 oz + 1.5 qt	99	23	79	99	99	98	99	60.0
12	Fierce + metribuzin / Roundup PowerMax + AMS	3 oz + 4 oz / 32 oz + 1.5 qt	99	33	61	99	99	95	99	55.6
13	Zidua PRO / Roundup PowerMax + NIS + AMS	4.5 oz / 32 oz + 0.25% + 1.5 qt	97	4	33	99	97	93	99	59.1
14	Verdict + Zidua / Roundup PowerMax + NIS + AMS	5 oz + 2.3 oz / 32 oz + 0.25% + 1.5 qt	97	5	45	99	97	96	98	60.2
15	Verdict + metribuzin / Roundup PowerMax + NIS + AMS	5 oz + 5 oz / 32 oz + 0.25% + 1.5 qt	96	4	49	99	96	95	98	62.4
16	Sonic / Durango DMA + AMS	4.5 oz / 32 oz + 1.5 qt	98	0	74	99	98	96	99	60.4
17	Surveil / Durango DMA + AMS	2.8 oz / 32 oz + 1.5 qt	99	25	89	99	99	99	99	60.5
18	Sonic / Durango DMA + Flexstar + COC + AMS	4.5 oz / 32 oz +12 oz + 0.5% + 1.5 qt	98	4	74	99	98	97	99	56.5
19	Enlite / Abundit Extra + Cinch + AMS	2.8 oz / 32 oz + 1 pt + 1.5 qt	98	15	58	99	98	92	99	60.9
20	Enlite / Abundit Extra + AMS	2.8 oz / 32 oz + 1.5 qt	96	11	53	99	96	93	99	58.8
POST II (2-inch weeds) / POST IV (Late Post)										
	Roundup PowerMax + Cobra + COC + AMS /	32 oz + 8 oz + 1 pt + 1.5 qt /								
21	Roundup PowerMax + AMS	32 oz + 1.5 qt	0	0	0	0	98	99	98	59.4
	Roundup PowerMax + Anthem Maxx + COC + AMS /	32 oz + 12 oz + 1 pt + 1.5 qt /								
22	Roundup PowerMax + AMS	32 oz + 1.5 qt	0	0	0	0	99	98	99	54.2
Checks										
23	Weedy Check	-	0	0	0	0	0	0	0	15.4
24	Weed Free	-	100	100	100	100	100	100	100	
LSD(0.10)		1	5	6	1	1	2	1	1	4.6

2016 Soybean Herbicide Evaluation - Waseca

Soybean @ \$8.75 / bushel

Herbicide	Rate	Gift	Corw	Pre Colq	Vele	Rrpw	Gift	Corw	Final colq	Vele	Rrpw	Yield
Preemergence/ POST I (21-28 DAP)	(Product/A)					% control						bu/A
1 Boundary / Flexstar GT 3.5 + MSO + AMS	1.75 pt / 3.5 pt + 1% + 1.5 qt	90	93	95	95	95	97	99	99	99	99	68.1
2 Rowel / Roundup PowerMax + Warrant + AMS	3 oz / 32 oz + 1.9 qt + 1.5 qt	81	91	95	95	95	97	97	99	99	99	67.8
Preemergence/ POST II (2" weeds)												
3 BroadAxe XC / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	25 oz / 1 pt + 3.5 pt + 1% + 1.5 qt	94	91	95	95	95	99	99	99	99	99	64.7
4 Boundary / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	1.75 pt / 1 pt + 3.5 pt + 1% + 1.5 qt	89	93	95	95	95	99	99	99	99	99	63.2
5 Authority First / Roundup PowerMax + Warrant Ultra + MSO + AMS	6.4 oz / 32 oz + 48 oz + 1% + 1.5 qt	58	93	95	95	95	99	99	99	99	99	67.8
Preemergence/ POST III (4" weeds)												
6 Rowel / Roundup PowerMax + WarrantUltra + MSO + AMS	3 oz / 32 oz + 48 oz + 1% + 1.5 qt	65	93	95	95	95	99	99	99	99	93	66.6
7 Rowel / Warrant + Cobra + Roundup PowerMax + MSO + AMS	3 oz / 1.9 qt + 10 oz + 32 oz + 0.5 qt + 1.5 qt	61	93	95	95	95	99	99	99	99	99	66.9
8 Authority First / Roundup PowerMax + AMS	6.4 oz / 32 oz + 1.5 qt	79	95	95	95	95	99	99	99	99	99	67.5
9 Authority Assist / Roundup PowerMax + AMS	12 oz / 32 oz + 1.5 qt	80	51	95	95	95	99	99	99	99	99	67.9
10 Authority First / Roundup PowerMax + AnthamMaxx + AMS	6.4 oz / 32 oz + 2.5 oz + 1.5 qt	90	81	95	95	95	99	99	99	99	99	66.0
11 Fierce + FirstRate / Roundup PowerMax + AMS	3 oz + 0.3 oz / 32 oz + 1.5 qt	83	95	95	95	95	99	99	99	99	99	70.0
12 Fierce + metribuzin / Roundup PowerMax + AMS	3 oz + 4 oz / 32 oz + 1.5 qt	84	93	95	95	95	99	99	99	99	99	70.3
13 Zidua PRO / Roundup PowerMax + NIS + AMS	4.5 oz / 32 oz + 0 .25% + 1.5 qt	59	93	95	95	95	99	99	99	99	99	66.3
14 Verdict + Zidua / Roundup PowerMax + NIS + AMS	5 oz + 2.3 oz / 32 oz + 0 .25% + 1.5 qt	41	94	95	95	95	99	99	99	99	99	71.9
15 Verdict + metribuzin / Roundup PowerMax + NIS + AMS	5 oz + 5 oz / 32 oz + 0 .25% + 1.5 qt	50	95	95	95	95	99	99	99	99	99	74.8
16 Sonic / Durango DMA + AMS	4.5 oz / 32 oz + 1.5 qt	71	95	95	95	95	99	99	99	99	99	67.6
17 Surveil / Durango DMA + AMS	2.8 oz / 32 oz + 1.5 qt	70	95	95	95	95	99	99	99	99	99	69.5
18 Sonic / Durango DMA + Flexstar + COC + AMS	4.5 oz / 32 oz +12 oz + 0.5% + 1.5 qt	68	95	95	95	95	99	99	99	99	99	68.5
19 Enlite / Abundit Extra + Cinch + AMS	2.8 oz / 32 oz + 1 pt + 1.5 qt	54	95	95	95	95	97	99	99	99	99	70.7
20 Enlite / Abundit Extra + AMS	2.8 oz / 32 oz + 1.5 qt	60	95	95	95	95	99	99	99	99	99	67.9
POST II (2-inch weeds) / POST IV (Late Post)												
Roundup PowerMax + Cobra + COC + AMS /	32 oz + 8 oz + 1 pt + 1.5 qt /											
21 Roundup PowerMax + AMS	32 oz + 1.5 qt	0	0	0	0	0	99	99	99	99	99	64.0
Roundup PowerMax + Anthem Maxx + COC + AMS /	32 oz + 12 oz + 1 pt + 1.5 qt /											
22 Roundup PowerMax + AMS	32 oz + 1.5 qt	0	0	0	0	0	99	99	99	99	94	65.7
Checks												
23 Weedy Check	-	0	0	0	0	0	0	0	0	0	0	24.7
24 Weed Free	-	100	100	100	100	100	100	100	100	100	100	66.9
	LSD(0.10)	5	6	1	1	1	2	1	1	1	4	5.6