

2016 Soybean Herbicide Evaluation

Herbicide	Rate	Pre						Final						Yield	cost	returns	
		Grass	Corw	Girw	Colq	Vele	Amar	Grass	Corw	Girw	Colq	Vele	Amar				
	(Product/A)	3	1	1	2	1	3	3	1	1	3	1	3	3	3		
<u>Preemergence/ POST I (21-28 DAP)</u>																	
	(Product/A)	% control															
Boundary / Flexstar GT 3.5 + MSO + AMS	1.75 pt / 3.5 pt + 1% + 1.5 qt	96	93	24	73	95	97	98	99	97	99	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	58	84	95	98	98	97	97	99	99	99	62.1	70.38	473	
<u>Preemergence/ POST II (2" weeds)</u>																	
BroadAxe XC / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	25 oz / 1 pt + 3.5 pt + 1% + 1.5 qt	97	91	25	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	25	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	84	93	95	98	99	99	98	99	99	99	60.1	89.91	436	
<u>Preemergence/ POST III (4" weeds)</u>																	
Rowel / Roundup PowerMax + WarrantUltra + MSO + AMS	3 oz / 32 oz + 48 oz + 1% + 1.5 qt	88	93	60	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	58	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	78	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	45	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	81	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	79	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	61	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	33	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	45	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	49	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	74	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	89	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	74	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	58	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	53	82	95	97	98	99	93	99	99	97	63.7	49.35	508	
<u>POST II (2-inch weeds) / POST IV (Late Post)</u>																	
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	
<u>Checks</u>																	
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	0.00	0.00		
LSD(0.10)		3	6	6	2	1	2	1	1	2	1	1	3	2.6		23	

2016 Soybean Herbicide Evaluation - Lambertton

Herbicide	Rate	Pre			Final			Yield	cost	returns	
		Grass	Tawh	Colq	Grass	Tawh	Colq				
<u>Preemergence/ POST I (21-28 DAP)</u>		(Product/A)						% control	bu/A	\$/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	65.53	466
2	Rowel / Roundup PowerMax + Warrant + AMS	3 oz / 32 oz + 1.9 qt + 1.5 qt	87	99	99	99	99	99	60.1	70.38	455
<u>Preemergence/ POST II (2" weeds)</u>											
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	85.24	449
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	79.93	448
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	89.91	440
<u>Preemergence/ POST III (4" weeds)</u>											
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	76.53	463
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	89.34	434
8	Authority First / Roundup PowerMax + AMS	6.4 oz / 32 oz + 1.5 qt	97	98	99	99	99	99	62.4	66.80	479
9	Authority Assist / Roundup PowerMax + AMS	12 oz / 32 oz + 1.5 qt	99	99	99	99	98	99	62.7	69.03	480
10	Authority First / Roundup PowerMax + AnthamMaxx + AMS	6.4 oz / 32 oz + 2.5 oz + 1.5 qt	96	99	99	99	99	99	62.7	81.76	467
11	Fierce + FirstRate / Roundup PowerMax + AMS	3 oz + 0.3 oz / 32 oz + 1.5 qt	99	99	99	99	98	99	62.4	67.48	479
12	Fierce + metribuzin / Roundup PowerMax + AMS	3 oz + 4 oz / 32 oz + 1.5 qt	99	98	99	99	96	99	61.0	58.51	475
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	51.02	470
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	55.83	483
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	47.96	511
16	Sonic / Durango DMA + AMS	4.5 oz / 32 oz + 1.5 qt	99	99	99	99	96	99	64.2	56.60	505
17	Surveil / Durango DMA + AMS	2.8 oz / 32 oz + 1.5 qt	97	97	99	99	86	99	62.5	49.89	497
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	61.24	490
19	Enlite / Abundit Extra + Cinch + AMS	2.8 oz / 32 oz + 1 pt + 1.5 qt	86	89	99	99	92	99	64.8	65.61	501
20	Enlite / Abundit Extra + AMS	2.8 oz / 32 oz + 1.5 qt	96	98	99	99	94	99	64.6	49.35	516
<u>POST II (2-inch weeds) / POST IV (Late Post)</u>											
21	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	99	99	99	58.4	58.26	453
22	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	99	97	99	59.8	59.67	464
<u>Checks</u>											
23	Weedy Check	-	0	0	0	0	0	0	56.6	0.00	495
24	Weed Free	-	99	99	99	99	99	99	63.6	0.00	557
LSD(0.10)			8	6	1	1	7	1	2.5		22

2016 Soybean Herbicide Evaluation - Rochester

Herbicide	Rate	Pre				Final				Yield	cost	returns
		Grass	Girw	Colq	Tawh	Grass	Girw	Colq	Tawh			
<u>Preemergence/ POST I (21-28 DAP)</u>												
	(Product/A)				% control					bu/A		\$/A
1	Boundary / Flexstar GT 3.5 + MSO + AMS	99	24	24	99	99	97	99	99	58.8	65.53	449
2	Rowel / Roundup PowerMax + Warrant + AMS	98	58	58	99	98	97	99	99	58.3	70.38	440
<u>Preemergence/ POST II (2" weeds)</u>												
3	BroadAxe XC / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	99	25	25	99	99	99	99	99	53.3	85.24	381
4	Boundary / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	99	25	25	99	99	99	99	99	53.2	79.93	386
5	Authority First / Roundup PowerMax + Warrant Ultra + MSO + AMS	99	84	84	99	99	98	99	99	52.0	89.91	365
<u>Preemergence/ POST III (4" weeds)</u>												
6	Rowel / Roundup PowerMax + WarrantUltra + MSO + AMS	99	60	60	99	99	99	99	99	49.8	76.53	359
7	Rowel / Warrant + Cobra + Roundup PowerMax + MSO + AMS	98	58	58	99	98	97	99	99	51.5	89.34	361
8	Authority First / Roundup PowerMax + AMS	99	78	78	99	99	98	99	99	62.8	66.80	483
9	Authority Assist / Roundup PowerMax + AMS	99	45	45	99	99	94	99	99	62.8	69.03	480
10	Authority First / Roundup PowerMax + AnthamMaxx + AMS	99	81	81	99	99	98	99	99	61.6	81.76	457
11	Fierce + FirstRate / Roundup PowerMax + AMS	99	79	79	99	99	98	99	99	60.0	67.48	457
12	Fierce + metribuzin / Roundup PowerMax + AMS	99	61	61	99	99	95	99	99	55.6	58.51	428
13	Zidua PRO / Roundup PowerMax + NIS + AMS	97	33	33	99	97	93	99	99	59.1	51.02	466
14	Verdict + Zidua / Roundup PowerMax + NIS + AMS	97	45	45	99	97	96	98	99	60.2	55.83	471
15	Verdict + metribuzin / Roundup PowerMax + NIS + AMS	96	49	49	99	96	95	98	96	62.4	47.96	498
16	Sonic / Durango DMA + AMS	98	74	74	99	98	96	99	98	60.4	56.60	472
17	Surveil / Durango DMA + AMS	99	89	89	99	99	99	99	99	60.5	49.89	479
18	Sonic / Durango DMA + Flexstar + COC + AMS	98	74	74	99	98	97	99	99	56.5	61.24	433
19	Enlite / Abundit Extra + Cinch + AMS	98	58	58	99	98	92	99	99	60.9	65.61	467
20	Enlite / Abundit Extra + AMS	96	53	53	99	96	93	99	99	58.8	49.35	465
<u>POST II (2-inch weeds) / POST IV (Late Post)</u>												
21	Roundup PowerMax + Cobra + COC + AMS / Roundup PowerMax + AMS	0	0	0	0	98	99	98	99	59.4	58.26	462
22	Roundup PowerMax + Anthem Maxx + COC + AMS / Roundup PowerMax + AMS	0	0	0	0	99	98	99	99	54.2	59.67	414
<u>Checks</u>												
23	Weedy Check	0	0	0	0	0	0	0	0	15.4	0.00	135
24	Weed Free	100	100	100	100	100	100	100	100	0.00		
LSD(0.10)		1	6	6	1	1	2	1	1	4.6		40

2016 Soybean Herbicide Evaluation - Waseca

Herbicide	Rate	Gift	Corw	Pre			Final					Yield	cost	returns	
				Colq	Vele	Rrpw	Gift	Corw	colq	Vele	Rrpw				
<u>Preemergence/ POST I (21-28 DAP)</u>															
	(Product/A)	% control													
1	Boundary / Flexstar GT 3.5 + MSO + AMS	90	93	95	95	95	97	99	99	99	99	99	68.1	65.53	530
2	Rowel / Roundup PowerMax + Warrant + AMS	81	91	95	95	95	97	97	99	99	99	99	67.8	70.38	523
<u>Preemergence/ POST II (2" weeds)</u>															
3	BroadAxe XC / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	94	91	95	95	95	99	99	99	99	99	99	64.7	85.24	481
4	Boundary / Dual II Magnum + Flexstar GT 3.5 + MSO + AMS	89	93	95	95	95	99	99	99	99	99	99	63.2	79.93	473
5	Authority First / Roundup PowerMax + Warrant Ultra + MSO + AMS	58	93	95	95	95	99	99	99	99	99	99	67.8	89.91	503
<u>Preemergence/ POST III (4" weeds)</u>															
6	Rowel / Roundup PowerMax + WarrantUltra + MSO + AMS	65	93	95	95	95	99	99	99	99	99	93	66.6	76.53	506
7	Rowel / Warrant + Cobra + Roundup PowerMax + MSO + AMS	61	93	95	95	95	99	99	99	99	99	99	66.9	89.34	496
8	Authority First / Roundup PowerMax + AMS	79	95	95	95	95	99	99	99	99	99	99	67.5	66.80	524
9	Authority Assist / Roundup PowerMax + AMS	80	51	95	95	95	99	99	99	99	99	99	67.9	69.03	525
10	Authority First / Roundup PowerMax + AnthemMaxx + AMS	90	81	95	95	95	99	99	99	99	99	99	66.0	81.76	496
11	Fierce + FirstRate / Roundup PowerMax + AMS	83	95	95	95	95	99	99	99	99	99	99	70.0	67.48	545
12	Fierce + metribuzin / Roundup PowerMax + AMS	84	93	95	95	95	99	99	99	99	99	99	70.3	58.51	557
13	Zidua PRO / Roundup PowerMax + NIS + AMS	59	93	95	95	95	99	99	99	99	99	99	66.3	51.02	529
14	Verdict + Zidua / Roundup PowerMax + NIS + AMS	41	94	95	95	95	99	99	99	99	99	99	71.9	55.83	573
15	Verdict + metribuzin / Roundup PowerMax + NIS + AMS	50	95	95	95	95	99	99	99	99	99	99	74.8	47.96	607
16	Sonic / Durango DMA + AMS	71	95	95	95	95	99	99	99	99	99	99	67.6	56.60	535
17	Surveil / Durango DMA + AMS	70	95	95	95	95	99	99	99	99	99	99	69.5	49.89	558
18	Sonic / Durango DMA + Flexstar + COC + AMS	68	95	95	95	95	99	99	99	99	99	99	68.5	61.24	538
19	Enlite / Abundit Extra + Cinch + AMS	54	95	95	95	95	97	99	99	99	99	99	70.7	65.61	553
20	Enlite / Abundit Extra + AMS	60	95	95	95	95	99	99	99	99	99	99	67.9	49.35	544
<u>POST II (2-inch weeds) / POST IV (Late Post)</u>															
21	Roundup PowerMax + Cobra + COC + AMS / Roundup PowerMax + AMS	0	0	0	0	0	99	99	99	99	99	99	64.0	58.26	502
22	Roundup PowerMax + Anthem Maxx + COC + AMS / Roundup PowerMax + AMS	0	0	0	0	0	99	99	99	99	94	99	65.7	59.67	515
<u>Checks</u>															
23	Weedy Check	0	0	0	0	0	0	0	0	0	0	0	24.7	0.00	216
24	Weed Free	100	100	100	100	100	100	100	100	100	100	100	66.9	0.00	585
LSD(0.10)		5	6	1	1	1	2	1	1	1	4	5.6			49