

## 2010 Corn Herbicide Evaluations

Herbicide	Rate	Giant	Yellow	Common	Common	Velvet-	Redroot	Common	Giant	Tall water-	Yield	Cost	Returns	
		foxtail	foxtail	lambsquarters	ragweed	leaf	pigweed	cocklebur	ragweed	hemp				
		Number of locations												
		4	1	5	2	2	2	1	2	3	bu/A	\$/A	\$/A	
		-----% control-----												
<b>Preemergence/POST III (V4 corn)</b>														
1	Harness / Laudis + atrazine + MSO + 28%	1.75 pt / 3 oz + 16 oz + 1% + 1.5 qt	95	98	98	99	99	99	99	95	97	192	47.17	940
<b>Preemergence/POST I (V2 - V3 corn)</b>														
2	Dual II Magnum / Halex GT+ NIS + AMS	1 pt / 3.6 pt + 0.25% + 3 qt	97	97	98	98	99	99	99	88	98	197	63.00	942
<b>Preemergence/POST III (V4 corn)</b>														
3	Harness / Laudis + Buctril + MSO + 28%	1.75 pt / 3 oz + 6 oz + 1% + 1.5 qt	98	96	98	99	99	99	99	95	98	188	48.44	916
4	Harness / Ignite + AMS	1.75 / 22 oz + 2 qt	96	97	96	96	99	99	99	86	94	175	39.65	862
5	Breakfree / Resolve Q + Abundit Extra + AMS	1.25 pt / 1.25 oz + 32 oz + 3qt	98	97	97	99	99	99	99	89	95	185	50.22	901
6	Breakfree / Realm Q + Abundit Extra + AMS	1.25 pt / 4 oz + 32 oz + 3qt	98	96	98	99	99	99	99	95	97	185	NL	
7	Harness / Roundup Weather Max + AMS	1.25 pt / 22 oz + 3 qt	96	97	96	97	99	99	92	87	94	190	41.72	929
8	Lumax / Touchdown Total + AMS	3 pt / 24 oz + 3 qt	98	98	99	99	99	99	96	93	98	190	55.55	917
9	SureStart / Durango DMA + AMS	1.75 pt / 24 oz + 3 qt	94	97	98	85	99	99	99	88	95	184	48.74	897
10	SureStart / Durango DMA + AMS	2.5 pt / 24 oz + 3 qt	91	98	98	86	99	99	99	8	97	187	55.78	902
11	SureStart + atrazine / Durango DMA + AMS	1.75 pt + 1.5 pt / 24 oz + 3 qt	98	97	99	96	99	99	99	87	98	192	51.89	936
12	Verdict / Roundup WeatherMax + Status + NIS + AMS	16 oz / 22 oz + 2.5 oz + 0.25% + 3 qt	99	98	98	99	99	99	99	92	98	191	62.76	916
13	Verdict / Roundup WeatherMax + NIS + AMS	16 oz / 22 oz + 0.25% + 3 qt	98	97	98	99	99	99	99	92	98	198	55.63	961
14	Harness / Impact + atrazine + MSO + AMS	1.75 pt / 0.75 oz + 16 oz + 1% + 3 qt	99	97	99	97	99	99	99	94	98	188	52.01	907
15	Harness / Impact + Roundup WeatherMax + AMS	1.25 pt / 0.5 oz + 22 oz + 3 qt	98	97	97	99	99	99	99	82	97	185	51.67	893
<b>POST I (1" weeds) / POST IV (4"weeds)</b>														
16	Roundup WeatherMax + AMS / Roundup WeatherMax + AMS	22 oz + 3 qt / 22 oz + 3 qt	99	95	98	99	99	99	99	96	97	193	40.64	948
<b>POST I (V2 - V3 corn)</b>														
17	SureStart + Durango DMA + AMS	1.75 pt + 24 oz + 3 qt	98	97	99	99	98	99	99	85	97	188	41.74	921
18	Halex GT + atrazine + NIS + AMS	3.6 pt + 16 oz + 0.25% + 3 qt	92	97	98	93	99	99	99	92	97	190	43.36	930
19	Capreno + Roundup WeatherMax + Superb HC + AMS	3 oz + 18 oz + 0.5% + 3 qt	92	94	97	97	99	99	99	81	95	190	41.55	930
<b>POST II (V3 corn)</b>														
20	Realm Q + Abundit Extra + AMS	4 oz + 32 oz + 3 qt	96	93	97	100	99	99	99	93	96	180	NL	
21	Resolve Q + Abundit Extra + AMS	1.25 oz + 32 oz + 3 qt	94	91	93	98	99	96	99	83	84	173	34.47	852
22	Accent Q + Impact + MSO + AMS	0.5 oz + 0.5 oz + 1% + 3 qt	92	80	93	82	97	96	91	57	87	160	34.00	788
<b>Checks</b>														
23	Weedy Check	-	0	0	0	0	0	0	0	0	45	0.00	242	
24	Weed-Free Check	-	100	100	100	100	100	100	100	100	190	0.00	971	
LSD (0.10)			3	2	2	8	1	2	3	4	2	8		43

Yellow = Equivalent to weed free or highest returning treatment

Corn = \$5.25/bu and NL=Not labeled



Source: J. Gunsolus, Applied Weed Science Research, University of Minnesota, 2010.

## 2010 Soybean Herbicide Evaluation

Herbicide	Rate	Giant	Yellow	Barnyard-	Common	Common	Velvetleaf	Redroot	Giant	Common	Tall water-	Yield	Cost	Returns	
		foxtail	foxtail	grass	ragweed	lambquarters		pigweed	ragweed	cocklebur	hemp				
		Number of locations													
		4	1	1	2	5	2	3	2	1	3				
		% control											bu/A	\$/A	\$/A
<b>Preemergence / POST II (4-inch weeds)</b>															
1	Boundary / Flexstar + Fusion + Harmony SG + MSO + 28%	1.5 / 16 oz + 8 oz + 0.125 oz + 1% + 2.5%	93	89	100	97	99	99	99	86	85	95	44	66.52	362
2	Authority First / Flexstar + Select + COC + 28%N	6.4 oz / 16 oz + 6 oz + 1% + 2.5%	93	98	100	97	99	99	99	93	96	99	45	66.00	375
3	Gangster / Raptor + Select + COC + 28%N	3 oz / 4 oz + 6 oz + 1% + 2.5%	94	96	100	81	97	99	93	71	71	89	45	65.71	368
<b>Preemergence / POST III (6-inch weeds)</b>															
4	Authority First / Roundup Original Max + AMS	3.2 oz / 22 oz + 3qt	94	91	100	95	99	99	99	94	97	93	47	45.41	413
5	Authority Assist / Roundup OriginalMax + AMS	5 oz / 22 oz + 3 qt	93	96	100	97	99	99	99	85	92	91	47	44.03	415
6	Gangster / Roundup Original Max + AMS	2.4 oz / 22 oz + 3 qt	94	97	98	99	97	99	99	96	95	93	46	50.34	401
7	Prefix / Touchdown Total + AMS	2 pt / 24 oz + 3 qt	97	99	98	99	98	98	99	93	99	92	48	44.78	423
8	Boundary / Touchdown Total + AMS	1.5 pt / 24 oz + 3 qt	97	99	100	99	98	99	97	85	99	85	46	47.52	403
9	Fierce / Roundup Original Max + AMS	3 oz / 22 oz + 3 qt	96	98	100	99	99	99	99	92	96	97	47	NL	
10	Valor SX / Roundup Original Max + AMS	2 oz / 22 oz + 3 qt	96	95	100	99	97	99	99	91	99	96	46	43.46	409
11	Optill / Roundup Original Max + AMS	2 oz / 22 oz + 3 qt	96	98	100	99	98	99	99	96	99	90	46	43.46	409
12	Sonic / Durango DMA + AMS	3 oz / 24 oz + 3 qt	97	95	99	99	98	99	98	95	99	97	47	46.52	410
13	Enlite / Abundit Extra + AMS	2.8 oz / 32 oz + 3 qt	97	96	100	99	99	98	99	95	99	97	47	46.52	408
14	Enlite / Abundit Extra + Harmony SG + AMS	2.8 oz / 32 oz + 0.125 oz + 3 qt	93	96	98	99	98	99	99	93	99	93	45	50.37	387
<b>POST I (2-4-inch weeds)</b>															
15	Warrant + Roundup WeatherMax + AMS	3 pt + 22 oz + 3 qt	95	98	100	94	96	99	97	80	99	97	46	34.71	414
<b>POST I (2-4-inch weeds) / POST III (Canopy)</b>															
16	Roundup Weather Max + AMS / Roundup Weather Max + AMS	22 oz + 3 qt / 22 oz + 3qt	98	99	100	99	99	99	99	99	99	99	46	40.64	407
17	Durango DMA + First Rate + AMS / Durango DMA + AMS	24 oz + 0.3 oz + 3 qt / 24 oz + 3 qt	98	99	100	99	99	99	99	99	99	99	47	51.25	410
18	Flexstar GT + AMS / Touchdown Total + AMS	3 pt + 3 qt / 24 oz + 3 qt	99	99	100	99	99	99	99	99	99	99	46	52.64	396
19	Synchrony XP + Abundit Extra + AMS / Abundit Extra + AMS	0.375 oz + 32 oz + 3 qt / 32 oz + 3 qt	98	99	100	99	99	99	99	99	99	99	46	44.49	407
20	Roundup Original Max + Resource + NIS + AMS / Roundup Original Max + AMS	22 oz + 2 oz + 0.25% + 3 qt / 22 oz + 3qt	98	99	100	99	99	99	99	99	99	99	46	45.04	401
21	Roundup Original Max + Cadet + NIS + AMS / Roundup Original Max + AMS	22 oz + 0.5 oz + 0.25% + 3 qt / 22 oz + 3 qt	98	99	100	99	99	99	99	99	99	99	46	46.79	400
<b>POST III (6-inch weeds)</b>															
22	Roundup Weather Max + AMS	22 oz + 3 qt	96	88	100	99	91	99	95	87	90	92	46	25.32	427
<b>Checks</b>															
23	Weedy Check	-	0	0	0	0	0	0	0	0	0	0	17	0.00	170
24	Weed-Free Check	-	100	100	100	100	100	100	100	100	100	100	46	0.00	447
LSD (0.10)			3	2	2	5	1	1	4	7	8	6	2		22

Yellow = Equivalent to weed free or highest returning treatment

Soybeans = \$9.75/bu and NL= Not labeled

Source: J. Gunsolus, Applied Weed Science Research, University of Minnesota, 2010.