

2013 Corn Herbicide Evaluation Waseca Site

Herbicide	Rate	Pre					Final					H2O	Yield	Cost	Returns		
		Gift	Corw	Colq	Vele	%Control	Gift	Corw	Colq	Vele	Rrpw						
<u>Preemergence/POST III (V4 corn)</u>		(product/A)															
1	Zemax / Halex GT + NIS + AMS	1 qt / 3.6 pt + 0.25% + 3 qt	80	84	83	93	95	99	98	99	99	99	99	18.1	196	71.51	882
2	Harness / Laudis + Destiny HC + AMS	1.75 pt / 3 oz + 0.5% + 2 qt	64	74	70	68	94	94	99	97	99	99	17.4	208	61.30	954	
3	Corvus / Laudis + Roundup PowerMax + Destiny HC + AMS	5.6 oz / 3 oz + 32 oz + 0.5% + 2 qt	73	79	84	83	95	99	99	99	99	99	17.7	202	89.77	896	
4	Breakfree / Realm Q + Abundit Extra+ NIS + AMS	1.5 pt / 4 oz + 32 oz + 0.25%+ 3qt	94	69	88	88	94	99	99	99	99	99	18.6	204	66.43	922	
5	Breakfree / Realm Q + Abundit Extra+ NIS + AMS	2.5 pt / 4 oz + 32 oz + 0.25%+ 3qt	80	83	84	88	94	99	99	99	99	99	18.1	200	73.13	899	
6	Instigate + Breakfree ATZ Lite / Abundit Extra + AMS	5.25 oz +1.5 qt / 32 oz + 3qt	90	94	93	91	95	99	99	99	99	99	17.3	197	64.25	898	
7	Harness / Roundup WeatherMax + AMS	1.25 pt / 32 oz + 3 qt	83	85	85	93	95	99	99	99	99	99	18.1	201	54.90	922	
8	Zemax / Touchdown Total + AMS	1.6 qt / 28 oz + 3 qt	86	88	85	88	95	99	99	99	99	99	17.6	201	63.03	920	
9	SureStart / Durango + AMS	2 pt / 24 oz + 3 qt	95	90	95	94	95	99	99	99	97	99	17.1	216	56.65	1002	
10	SureStart / Durango + AMS	2.5 pt / 24 oz + 3 qt	90	89	85	94	95	98	99	99	99	99	18.2	201	62.03	916	
11	SureStart / SureStart + Durango + AMS	2 pt / 1.5 pt + 24 oz + 3 qt	88	84	88	93	95	99	99	99	99	99	17.9	202	72.79	911	
12	Verdict / Roundup PowerMax + NIS + AMS	18 oz / 32 oz + 0.25% + 3 qt	97	91	95	95	95	99	99	99	99	99	17.7	203	66.47	925	
13	Verdict / Roundup PowerMax + Status + NIS + AMS	16 oz / 32 oz + 2.5 oz + 0.25% + 3 qt	60	68	68	86	95	99	99	99	99	99	17.6	204	73.04	922	
14	Anthem + F9387 / Roundup PowerMax + AMS	10 oz + 3 oz / 32 oz + 3 qt	80	78	85	91	95	99	99	99	99	99	18.1	209	-	-	
15	Harness / Impact + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 0.75 oz + 32 oz + 0.5% + 3 qt	41	59	75	84	95	99	99	99	99	99	17.2	208	73.72	943	
<u>POST I (1" Weeds) / POST IV (4" weeds)</u>																	
16	Roundup WeatherMax + AMS / Roundup WeatherMax + AMS	22 oz + 3 qt / 22 oz + 3 qt	95	95	95	95	95	99	99	99	99	99	18.0	202	54.03	928	
<u>POST II (2" - 4" weeds) / Post III (V4 corn)</u>																	
17	Capreno + RoundupPowerMax + AMS / Laudis + Destiny HC + AMS	3 oz + 18 oz + 2 qt / 3 oz + 0.5% + 3 qt	0	0	0	0	0	99	99	99	99	99	17.1	200	75.07	905	
<u>POST II (2" - 4" weeds)</u>																	
18	Warrant + Impact + Roundup PowerMax + Destiny HC + AMS	3 pt +0.75 oz 32 oz + 0.5% + 3 qt	0	0	0	0	0	99	99	99	99	99	18.5	184	62.89	829	
19	F9387 + Roundup PowerMax + NIS + AMS	3 oz + 32 oz + 0.25% + 3 qt	0	0	0	0	0	94	96	99	99	99	17.7	190	-	-	
20	Halex GT + atrazine + NIS + AMS	3.6 pt + 16 oz + 0.25% + 3 qt	0	0	0	0	0	99	99	99	99	99	17.0	209	49.52	974	
21	SureStart + Durango + AMS	2 pt + 24 oz + 3 qt	0	0	0	0	0	99	99	99	99	99	17.8	200	49.65	927	
22	Realm Q + Abundit Extra + NIS + AMS	4 oz + 32 oz + 0.25% + 3 qt	0	0	0	0	0	98	99	99	99	99	18.5	191	49.39	880	
<u>Checks</u>																	
23	Weedy Check	-	0	0	0	0	0	0	0	0	0	0	19.7	142	0.00	682	
24	Weed-Free Check	-	99	99	99	99	99	100	99	99	97	97	18.5	198	0.00	960	
LSD (0.10)			6	6	5	5	1	3	1	1	2	1	1.0	23		116	

2013 Corn Herbicide Evaluation  
Lamberton

Herbicide	Rate	Grft	Pre Tawh	Colq	Grft	Final Tawh	Colq	Yield	Cost	Returns
<u>Preemergence/POST III (V4 corn)</u>				% Control				Bu/A		\$/A
1	Zemax / Halex GT + NIS + AMS	1 qt / 3.6 pt + 0.25% + 3 qt	79	100	100	100	100	186	71.51	771
2	Harness / Laudis + Destiny HC + AMS	1.75 pt / 3 oz + 0.5% + 2 qt	87	100	100	99	100	190	61.30	799
3	Corvus / Laudis + Roundup PowerMax + Destiny HC + AMS	5.6 oz / 3 oz + 32 oz + 0.5% + 2 qt	93	100	100	100	100	191	89.77	774
4	Breakfree / Realm Q + Abundit Extra+ NIS + AMS	1.5 pt / 4 oz + 32 oz + 0.25%+ 3qt	96	99	100	99	100	191	66.43	799
5	Breakfree / Realm Q + Abundit Extra+ NIS + AMS	2.5 pt / 4 oz + 32 oz + 0.25%+ 3qt	96	100	100	100	100	185	73.13	762
6	Instigate + Breakfree ATZ Lite / Abundit Extra + AMS	5.25 oz +1.5 qt / 32 oz + 3qt	71	75	100	100	100	190	64.25	793
7	Harness / Roundup WeatherMax + AMS	1.25 pt / 32 oz + 3 qt	89	100	100	100	100	185	54.90	782
8	Zemax / Touchdown Total + AMS	1.6 qt / 28 oz + 3 qt	91	100	98	100	100	189	63.03	793
9	SureStart / Durango + AMS	2 pt / 24 oz + 3 qt	81	100	98	100	100	186	56.65	784
10	SureStart / Durango + AMS	2.5 pt / 24 oz + 3 qt	80	99	95	100	100	188	62.03	787
11	SureStart / SureStart + Durango + AMS	2 pt / 1.5 pt + 24 oz + 3 qt	91	100	75	100	100	188	72.79	779
12	Verdict / Roundup PowerMax + NIS + AMS	18 oz / 32 oz + 0.25% + 3 qt	74	75	75	100	100	186	66.47	773
13	Verdict / Roundup PowerMax + Status + NIS + AMS	16 oz / 32 oz + 2.5 oz + 0.25% + 3 qt	99	100	75	100	100	182	73.04	751
14	Anthem + F9387 / Roundup PowerMax + AMS	10 oz + 3 oz / 32 oz + 3 qt	93	100	73	100	100	183	-	
15	Harness / Impact + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 0.75 oz + 32 oz + 0.5% + 3 qt	93	95	73	100	100	187	73.72	773
<u>POST I (1" Weeds) / POST IV (4" weeds)</u>										
16	Roundup WeatherMax + AMS / Roundup WeatherMax + AMS	22 oz + 3 qt / 22 oz + 3 qt	0	0	0	100	100	199	54.03	846
<u>POST II (2" - 4" weeds) / Post III (V4 corn)</u>										
17	Capreno + RoundupPowerMax + AMS / Laudis + Destiny HC + AMS	3 oz + 18 oz + 2 qt / 3 oz + 0.5% + 3 qt	0	0	0	100	100	184	75.07	756
<u>POST II (2" - 4" weeds)</u>										
18	Warrant + Impact + Roundup PowerMax + Destiny HC + AMS	3 pt +0.75 oz 32 oz + 0.5% + 3 qt	0	0	0	100	100	189	62.89	792
19	F9387 + Roundup PowerMax + NIS + AMS	3 oz + 32 oz + 0.25% + 3 qt	0	0	0	100	100	190	-	
20	Halex GT + atrazine + NIS + AMS	3.6 pt + 16 oz + 0.25% + 3 qt	0	0	0	100	100	188	49.52	801
21	SureStart + Durango + AMS	2 pt + 24 oz + 3 qt	0	0	0	100	99	184	49.65	784
22	Realm Q + Abundit Extra + NIS + AMS	4 oz + 32 oz + 0.25% + 3 qt	0	0	0	99	100	191	49.39	816
<u>Checks</u>										
23	Weedy Check	-	0	0	0	0	0	173	0.00	781
24	Weed-Free Check	-	0	0	0	100	100	184	0.00	831
LSD (0.10)			18	17	27	1	1	1	8	38

2013 Corn Herbicide Evaluation  
Rochester

Herbicide	Rate	Pre				Final				H2O	Yield	Cost	Returns
		Grass	Girw	Colq	Cowh	Grass	Girw	Colq	Cowh				
<u>Preemergence/POST III (V4 corn)</u>	(product/A)					% Control				%	bu/A		\$/A
1 Zemax / Halex GT + NIS + AMS	1 qt / 3.6 pt + 0.25% + 3 qt	99	66	99	99	99	99	99	99	17.5	145	71.51	638
2 Harness / Laudis + Destiny HC + AMS	1.75 pt / 3 oz + 0.5% + 2 qt	99	60	99	99	96	99	99	99	17.6	152	61.30	681
3 Corvus / Laudis + Roundup PowerMax + Destiny HC + AMS	5.6 oz / 3 oz + 32 oz + 0.5% + 2 qt	96	86	99	99	95	99	99	99	17.6	152	89.77	655
4 Breakfree / Realm Q + Abundit Extra+ NIS + AMS	1.5 pt / 4 oz + 32 oz + 0.25%+ 3qt	99	61	99	99	97	98	99	99	17.3	140	66.43	617
5 Breakfree / Realm Q + Abundit Extra+ NIS + AMS	2.5 pt / 4 oz + 32 oz + 0.25%+ 3qt	99	66	99	99	97	97	99	99	17.1	139	73.13	610
6 Instigate + Breakfree ATZ Lite / Abundit Extra + AMS	5.25 oz +1.5 qt / 32 oz + 3qt	99	92	99	99	96	98	99	99	17.2	144	64.25	640
7 Harness / Roundup WeatherMax + AMS	1.25 pt / 32 oz + 3 qt	99	61	99	99	89	95	95	98	17.2	139	54.90	623
8 Zemax / Touchdown Total + AMS	1.6 qt / 28 oz + 3 qt	99	79	99	99	97	94	98	99	17.2	150	63.03	673
9 SureStart / Durango + AMS	2 pt / 24 oz + 3 qt	99	78	99	99	93	97	98	99	17.4	146	56.65	655
10 SureStart / Durango + AMS	2.5 pt / 24 oz + 3 qt	99	87	99	99	91	96	99	99	16.8	137	62.03	609
11 SureStart / SureStart + Durango + AMS	2 pt / 1.5 pt + 24 oz + 3 qt	99	75	99	99	99	97	99	99	17.0	137	72.79	598
12 Verdict / Roundup PowerMax + NIS + AMS	18 oz / 32 oz + 0.25% + 3 qt	99	75	99	99	92	95	94	99	17.4	146	66.47	647
13 Verdict / Roundup PowerMax + Status + NIS + AMS	16 oz / 32 oz + 2.5 oz + 0.25% + 3 qt	99	74	99	99	95	98	93	99	17.2	140	73.04	615
14 Anthem + F9387 / Roundup PowerMax + AMS	10 oz + 3 oz / 32 oz + 3 qt	99	85	99	99	95	96	96	99	17.0	130	-	
15 Harness / Impact + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 0.75 oz + 32 oz + 0.5% + 3 qt	99	55	99	99	94	99	99	99	17.6	146	73.72	640
<u>POST I (1" Weeds) / POST IV (4" weeds)</u>													
16 Roundup WeatherMax + AMS / Roundup WeatherMax + AMS	22 oz + 3 qt / 22 oz + 3 qt	0	0	0	0	90	97	98	99	17.3	141	54.03	635
<u>POST II (2" - 4" weeds) / Post III (V4 corn)</u>													
17 Capreno + RoundupPowerMax + AMS / Laudis + Destiny HC + AMS	3 oz + 18 oz + 2 qt / 3 oz + 0.5% + 3 qt	0	0	0	0	97	99	99	99	17.6	155	75.07	680
<u>POST II (2" - 4" weeds)</u>													
18 Warrant + Impact + Roundup PowerMax + Destiny HC + AMS	3 pt +0.75 oz 32 oz + 0.5% + 3 qt	0	0	0	0	97	96	99	99	17.2	143	62.89	639
19 F9387 + Roundup PowerMax + NIS + AMS	3 oz + 32 oz + 0.25% + 3 qt	0	0	0	0	89	99	99	99	17.2	149	-	
20 Halex GT + atrazine + NIS + AMS	3.6 pt + 16 oz + 0.25% + 3 qt	0	0	0	0	98	99	99	99	16.9	141	49.52	642
21 SureStart + Durango + AMS	2 pt + 24 oz + 3 qt	0	0	0	0	98	96	99	99	17.1	137	49.65	624
22 Realm Q + Abundit Extra + NIS + AMS	4 oz + 32 oz + 0.25% + 3 qt	0	0	0	0	95	98	99	99	17.6	154	49.39	700
<u>Checks</u>													
23 Weedy Check	-	0	0	0	0	0	0	0	0	16.4	84	0.00	415
24 Weed-Free Check	-	100	100	100	100	100	100	100	100	16.9	134	0.00	657
	LSD (0.10)	1	13	1	1	3	3	2	1	0.5	17		85

2013 Corn Herbicide Evaluation  
Average Over All Locations

Herbicide	Rate	Pre							Final							3	3	S.E		
		3	1	2	3	1	1	1	3	1	2	1	3	3	3					
		Foxtails	Corw	Tawh	Colq	Girw	Vele	Rrpw	3	1	3	1	2	1	Yield	Cost	Returns	Returns		
<u>Preemergence/POST III (V4 corn)</u>		(product/A)							% Control							Bu/A	\$/A			
1	Zemax / Halex GT + NIS + AMS	1 qt / 3.6 pt + 0.25% + 3 qt	86	84	100	94	66	93	95	99	98	99	99	99	100	99	176	71.51	764	38.6
2	Harness / Laudis + Destiny HC + AMS	1.75 pt / 3 oz + 0.5% + 2 qt	83	74	100	88	60	68	94	97	99	99	99	100	99	183	61.30	811	38.6	
3	Corvus / Laudis + Roundup PowerMax + Destiny HC + AMS	5.6 oz / 3 oz + 32 oz + 0.5% + 2 qt	87	79	100	94	86	83	95	98	99	99	99	100	99	182	89.77	775	33.6	
4	Breakfree / Realm Q + Abundit Extra+ NIS + AMS	1.5 pt / 4 oz + 32 oz + 0.25%+ 3qt	96	69	99	87	61	88	94	98	99	99	98	100	99	178	66.43	780	42.5	
5	Breakfree / Realm Q + Abundit Extra+ NIS + AMS	2.5 pt / 4 oz + 32 oz + 0.25%+ 3qt	92	83	100	85	66	88	94	99	99	99	97	100	99	175	73.13	757	41.2	
6	Instigate + Breakfree ATZ Lite / Abundit Extra + AMS	5.25 oz +1.5 qt / 32 oz + 3qt	87	94	87	89	92	91	95	98	99	99	98	100	99	177	64.25	777	36.8	
7	Harness / Roundup WeatherMax + AMS	1.25 pt / 32 oz + 3 qt	90	85	100	94	61	93	95	96	99	98	95	99	99	175	54.90	776	42.9	
8	Zemax / Touchdown Total + AMS	1.6 qt / 28 oz + 3 qt	92	88	100	95	79	88	95	99	99	99	94	99	99	180	63.03	795	35.9	
9	SureStart / Durango + AMS	2 pt / 24 oz + 3 qt	92	90	100	98	78	94	95	97	99	99	97	99	99	183	56.65	814	49.0	
10	SureStart / Durango + AMS	2.5 pt / 24 oz + 3 qt	90	89	99	94	87	94	95	96	99	99	96	99	99	175	62.03	771	42.4	
11	SureStart / SureStart + Durango + AMS	2 pt / 1.5 pt + 24 oz + 3 qt	92	84	100	96	75	93	95	99	99	99	97	100	99	176	72.79	763	42.7	
12	Verdict / Roundup PowerMax + NIS + AMS	18 oz / 32 oz + 0.25% + 3 qt	90	91	87	90	75	95	95	97	99	98	95	99	99	178	66.47	782	38.0	
13	Verdict / Roundup PowerMax + Status + NIS + AMS	16 oz / 32 oz + 2.5 oz + 0.25% + 3 qt	86	68	100	89	74	86	95	98	99	97	98	100	99	175	73.04	763	40.5	
14	Anthem + F9387 / Roundup PowerMax + AMS	10 oz + 3 oz / 32 oz + 3 qt	90	78	100	95	85	91	95	98	99	98	96	99	99	174	-			
15	Harness / Impact + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 0.75 oz + 32 oz + 0.5% + 3 qt	78	59	97	82	55	84	95	98	99	99	99	100	99	180	73.72	786	46.4	
<u>POST I (1" Weeds) / POST IV (4" weeds)</u>																				
16	Roundup WeatherMax + AMS / Roundup WeatherMax + AMS	22 oz + 3 qt / 22 oz + 3 qt	32	95	0	32	0	95	95	96	99	99	97	99	99	181	54.03	803	38.8	
<u>POST II (2" - 4" weeds) / Post III (V4 corn)</u>																				
17	Capreno + RoundupPowerMax + AMS / Laudis + Destiny HC + AMS	3 oz + 18 oz + 2 qt / 3 oz + 0.5% + 3 qt	0	0	0	0	0	0	0	98	99	99	99	100	99	179	75.07	780	33.1	
<u>POST II (2" - 4" weeds)</u>																				
18	Warrant + Impact + Roundup PowerMax + Destiny HC + AMS	3 pt +0.75 oz 32 oz + 0.5% + 3 qt	0	0	0	0	0	0	0	99	99	99	96	99	100	172	62.89	753	30.7	
19	F9387 + Roundup PowerMax + NIS + AMS	3 oz + 32 oz + 0.25% + 3 qt	0	0	0	0	0	0	0	94	96	99	99	100	99	176	-			
20	Halex GT + atrazine + NIS + AMS	3.6 pt + 16 oz + 0.25% + 3 qt	0	0	0	0	0	0	0	99	99	99	99	100	99	179	49.52	806	42.4	
21	SureStart + Durango + AMS	2 pt + 24 oz + 3 qt	0	0	0	0	0	0	0	99	99	99	96	99	99	174	49.65	778	41.4	
22	Realm Q + Abundit Extra + NIS + AMS	4 oz + 32 oz + 0.25% + 3 qt	0	0	0	0	0	0	0	97	99	99	98	100	99	179	49.39	799	31.7	
<u>Checks</u>																				
23	Weedy Check	-	0	0	0	0	0	0	0	0	0	0	0	0	0	133	0.00	626	55.2	
24	Weed-Free Check	-	100	99	100	100	100	99	99	100	99	100	97	100	97	172	0.00	816	40.6	
LSD (0.10)			6	6	8	9	13	5	1	1	1	1	3	2	1	1	10	49		