

2016 Corn Herbicide Evaluation - Averages of the three locations

Corn @ \$3.00 / bushel

Herbicide	Rate	Pre						Final						Yield	Cost	Returns	
		Grass	Girw	Corw	Colq	Amar	Vele	Grass	Girw	Corw	Colq	Amar	Vele				
		3	1	1	3	2	1	3	1	1	3	3	1				
<u>Preemergence</u>	(product/A)	% Control												Bu/A	\$/A		
Acuron	3 qt	89	93	94	97	95	94	81	98	99	99	99	99	99	209	57.00	559
<u>Preemergence/POST I (2" weeds)</u>																	
Acuron Flexi / Acuron Flexi + NIS + AMS	1.12 qt / 1.12 qt + 0.25% + 1.5 qt	90	86	94	97	96	94	96	99	99	99	99	99	99	212	69.90	555
<u>Preemergence/POST II (2-4" weeds)</u>																	
Acuron Flexi / Halex GT + NIS + AMS	1.12 qt / 3.6 pt + 0.25% + 1.5 qt	81	86	85	92	82	70	98	99	99	99	98	99	211	81.00	541	
<u>Preemergence/POST III (4" weeds)</u>																	
Harness / Diflexx + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 10 oz + 28 oz + 0.5% + 1.5 qt	93	13	94	94	96	75	99	89	99	98	98	99	198	73.49	510	
Corvus / Liberty + atrazine + AMS	5.6 oz / 29 oz + 16 oz + 2 qt	91	87	85	96	95	94	98	98	99	99	98	99	209	75.11	544	
Harness / Diflexx Duo + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 24 oz + 28 oz + 0.5% + 1.5 qt	94	14	75	95	96	90	99	90	99	99	99	99	195	75.29	499	
Breakfree NXT / Realm Q + Abundit Extra + atrazine + NIS + AMS	2 pt / 4 oz + 32 oz + 12 oz + 1.5 qt	97	28	80	94	96	75	98	93	99	99	99	99	210	69.41	549	
Breakfree NXT Lite / Instigate + Abundit Extra + AMS	2 pt / 5.25 oz + 32 oz + 12 oz + 1.5 qt	97	89	94	97	96	94	99	98	99	99	99	99	207	65.71	546	
TripleFlex II / Impact + Roundup PowerMax + MSO + AMS	2 pt / 0.75 oz + 32 oz + 1 % + 1.5 qt	93	84	85	87	86	90	98	94	99	99	99	99	211	76.24	544	
Harness / Impact + Roundup PowerMax + MSO + AMS	36 oz / 0.75 oz + 32 oz + 1 % + 1.5 qt	96	31	90	93	95	80	99	84	99	99	99	92	205	87.56	518	
TripleFlex II / Status + Roundup PowerMax + NIS + AMS	2 pt / 5 oz + 32 oz + 0.25 % + 1.5 qt	87	83	94	92	95	94	98	97	99	98	98	97	204	75.53	529	
Harness / Roundup PowerMax + Status + AMS	36 oz / 32 oz + 5 oz + 1.5 qt	97	29	94	96	96	95	99	88	99	98	99	97	204	86.85	514	
TripleFlex II / Impact + Roundup PowerMax + Destiny HC + AMS	2 pt / 0.75 oz + 32 oz + 0.5 % + 1.5 qt	97	97	94	97	96	94	99	99	99	99	99	99	215	80.24	555	
Resicore / Durango + AMS	3 qt / 32 oz + 1.5 qt	92	87	85	92	95	75	94	99	99	99	99	99	210	76.30	541	
Resicore / Resicore + Durango + AMS	1.5 qt / 1.25 qt + 32 oz + 1.5 qt	95	91	85	93	92	94	98	95	99	99	99	99	210	63.04	556	
SureStart II / Durango + AMS	2.5 pt / 32 oz + 1.5 qt	92	87	85	97	96	70	98	98	99	99	99	95	212	76.72	548	
Verdict / ArmezonPRO + atrazine + Roundup PowerMax + COC + AMS	10 oz / 16 oz + 16 oz + 32 oz + 1 pt + 1.5 qt	86	88	90	94	93	85	99	98	99	99	99	99	213	73.40	556	
Verdict / Roundup PowerMax + Status + NIS + AMS	16 oz / 32 oz + 5 oz + 0.25% + 1.5 qt	96	94	90	97	96	80	98	98	99	99	99	99	208	82.30	532	
Anthem Max / Solstice + Roundup PowerMax + AMS	4 oz / 32 oz + 3 oz + 1.5 qt	95	11	60	85	83	60	95	94	87	97	99	99	214	73.85	556	
Harness / Impact + atrazine + Destiny HC + AMS	2.25 pt / 0.75 oz + 32 oz + 1% + 1.5 qt	94	29	80	97	96	80	98	91	99	99	99	90	207	76.90	533	
<u>POST I (2" weeds)</u>																	
Solstice + Anthem Max + Roundup PowerMax + atrazine + AMS	2.5 oz + 2 oz + 32 oz + 16 oz + 1.5 qt	0	0	0	0	0	0	93	94	99	99	99	99	213	54.54	574	
Realm Q + Abundit Extra + atrazine + NIS + AMS	4 oz + 32 oz + 0.25% + 1.5 qt	0	0	0	0	0	0	91	88	99	99	97	99	196	45.31	534	
<u>Checks</u>																	
Weedy Check	-	0	0	0	0	0	0	0	0	0	0	0	0	100	0.00	296	
Weed-Free Check	-	100	100	100	100	100	100	100	100	100	100	100	100	202	0.00	595	
	LSD (0.10)	6	3	4	4	7	4	5	3	3	1	1	4	7		20	

2016 Corn Herbicide Evaluation Lamberton

Corn @ \$3.00 / bushel

Herbicide	Rate (product/A)	Pre			Final			Yield Bu/A
		Grass	Colq	Tawh	Grass	Colq	Tawh	
<u>Preemergence</u>								
1 Acuron	3 qt	78	99	96	61	99	98	221
<u>Preemergence/POST I (2" weeds)</u>								
2 Acuron Flexi / Acuron Flexi + NIS + AMS	1.12 qt / 1.12 qt + 0.25% + 1.5 qt	76	99	99	97	99	99	240
<u>Preemergence/POST II (2-4" weeds)</u>								
3 Acuron Flexi / Halex GT + NIS + AMS	1.12 qt / 3.6 pt + 0.25% + 1.5 qt	53	82	70	99	99	97	231
<u>Preemergence/POST III (4" weeds)</u>								
4 Harness / Diflexx + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 10 oz + 28 oz + 0.5% + 1.5 qt	99	88	99	99	99	98	200
5 Corvus / Liberty + atrazine + AMS	5.6 oz / 29 oz + 16 oz + 2 qt	99	99	99	99	99	99	226
6 Harness / Diflexx Duo + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 24 oz + 28 oz + 0.5% + 1.5 qt	97	92	99	99	99	99	195
7 Breakfree NXT / Realm Q + Abundit Extra + atrazine + NIS + AMS	2 pt / 4 oz + 32 oz + 12 oz + 1.5 qt	97	90	99	99	99	99	229
8 Breakfree NXT Lite / Instigate + Abundit Extra + AMS	2 pt / 5.25 oz + 32 oz + 12 oz + 1.5 qt	99	99	99	99	99	98	230
9 TripleFlex II / Impact + Roundup PowerMax + MSO + AMS	2 pt / 0.75 oz + 32 oz + 1 % + 1.5 qt	96	82	87	98	99	99	232
10 Harness / Impact + Roundup PowerMax + MSO + AMS	36 oz / 0.75 oz + 32 oz + 1 % + 1.5 qt	99	94	97	99	99	98	239
11 TripleFlex II / Status + Roundup PowerMax + NIS + AMS	2 pt / 5 oz + 32 oz + 0.25 % + 1.5 qt	67	85	97	99	99	99	222
12 Harness / Roundup PowerMax + Status + AMS	36 oz / 32 oz + 5 oz + 1.5 qt	99	94	99	99	99	99	224
13 TripleFlex II / Impact + Roundup PowerMax + Destiny HC + AMS	2 pt / 0.75 oz + 32 oz + 0.5 % + 1.5 qt	99	99	99	99	99	99	235
14 Resicore / Durango + AMS	3 qt / 32 oz + 1.5 qt	87	94	99	99	99	99	228
15 Resicore / Resicore + Durango + AMS	1.5 qt / 1.25 qt + 32 oz + 1.5 qt	100	99	99	99	99	99	232
16 SureStart II / Durango + AMS	2.5 pt / 32 oz + 1.5 qt	92	99	99	99	99	99	237
17 Verdict / ArmezonPRO + atrazine + Roundup PowerMax + COC + AMS	10 oz / 16 oz + 16 oz + 32 oz + 1 pt + 1.5 qt	74	92	93	99	99	99	232
18 Verdict / Roundup PowerMax + Status + NIS + AMS	16 oz / 32 oz + 5 oz + 0.25% + 1.5 qt	94	99	99	99	99	99	226
19 Anthem Max / Solstice + Roundup PowerMax + AMS	4 oz / 32 oz + 3 oz + 1.5 qt	92	87	92	99	97	99	237
20 Harness / Impact + atrazine + Destiny HC + AMS	2.25 pt / 0.75 oz + 32 oz + 1% + 1.5 qt	99	97	99	97	98	99	234
<u>POST I (2" weeds)</u>								
21 Solstice + Anthem Max + Roundup PowerMax + atrazine + AMS	2.5 oz + 2 oz + 32 oz + 16 oz + 1.5 qt	0	0	0	97	99	99	244
22 Realm Q + Abundit Extra + atrazine + NIS + AMS	4 oz + 32 oz + 0.25% + 1.5 qt	0	0	0	97	99	99	229
<u>Checks</u>								
23 Weedy Check	-	0	0	0	0	0	0	179
24 Weed-Free Check	-	100	99	99	99	99	99	222
	LSD (0.10)	16	12	13	11	1	2	11

## 2016 Corn Herbicide Evaluation Rochester

Corn @ \$3.00 / bushel

Herbicide	Rate	Pre			Final				Yield
		Grass	Girw	Colq	Grass	Girw	Colq	Tawh	
<u>Preemergence</u>	(product/A)	% Control							Bu/A
1 Acuron	3 qt	99	93	99	99	98	99	99	218
<u>Preemergence/POST I (2" weeds)</u>									
2 Acuron Flexi / Acuron Flexi + NIS + AMS	1.12 qt / 1.12 qt + 0.25% + 1.5 qt	99	86	99	99	99	99	99	219
<u>Preemergence/POST II (2-4" weeds)</u>									
3 Acuron Flexi / Halex GT + NIS + AMS	1.12 qt / 3.6 pt + 0.25% + 1.5 qt	99	86	99	97	99	99	99	222
<u>Preemergence/POST III (4" weeds)</u>									
4 Harness / Diflexx + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 10 oz + 28 oz + 0.5% + 1.5 qt	99	13	99	98	89	95	98	206
5 Corvus / Liberty + atrazine + AMS	5.6 oz / 29 oz + 16 oz + 2 qt	99	87	99	98	98	99	97	220
6 Harness / Diflexx Duo + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 24 oz + 28 oz + 0.5% + 1.5 qt	99	14	99	99	90	98	99	206
7 Breakfree NXT / Realm Q + Abundit Extra + atrazine + NIS + AMS	2 pt / 4 oz + 32 oz + 12 oz + 1.5 qt	99	28	99	99	93	99	99	217
8 Breakfree NXT Lite / Instigate + Abundit Extra + AMS	2 pt / 5.25 oz + 32 oz + 12 oz + 1.5 qt	99	89	99	99	98	99	99	220
9 TripleFlex II / Impact + Roundup PowerMax + MSO + AMS	2 pt / 0.75 oz + 32 oz + 1 % + 1.5 qt	99	84	99	99	94	98	98	218
10 Harness / Impact + Roundup PowerMax + MSO + AMS	36 oz / 0.75 oz + 32 oz + 1 % + 1.5 qt	99	31	99	99	84	98	99	198
11 TripleFlex II / Status + Roundup PowerMax + NIS + AMS	2 pt / 5 oz + 32 oz + 0.25 % + 1.5 qt	99	83	99	98	97	98	97	222
12 Harness / Roundup PowerMax + Status + AMS	36 oz / 32 oz + 5 oz + 1.5 qt	99	29	99	99	88	97	99	210
13 TripleFlex II / Impact + Roundup PowerMax + Destiny HC + AMS	2 pt / 0.75 oz + 32 oz + 0.5 % + 1.5 qt	99	97	99	99	99	99	99	226
14 Resicore / Durango + AMS	3 qt / 32 oz + 1.5 qt	98	87	98	99	99	99	99	219
15 Resicore / Resicore + Durango + AMS	1.5 qt / 1.25 qt + 32 oz + 1.5 qt	99	91	99	99	95	99	98	218
16 SureStart II / Durango + AMS	2.5 pt / 32 oz + 1.5 qt	99	87	99	99	98	99	99	221
17 Verdict / ArmezonPRO + atrazine + Roundup PowerMax + COC + AMS	10 oz / 16 oz + 16 oz + 32 oz + 1 pt + 1.5 qt	99	88	99	99	98	99	99	220
18 Verdict / Roundup PowerMax + Status + NIS + AMS	16 oz / 32 oz + 5 oz + 0.25% + 1.5 qt	99	94	99	99	98	98	99	211
19 Anthem Max / Solstice + Roundup PowerMax + AMS	4 oz / 32 oz + 3 oz + 1.5 qt	99	11	99	99	94	99	99	220
20 Harness / Impact + atrazine + Destiny HC + AMS	2.25 pt / 0.75 oz + 32 oz + 1% + 1.5 qt	99	29	99	99	91	99	99	213
<u>POST I (2" weeds)</u>									
21 Solstice + Anthem Max + Roundup PowerMax + atrazine + AMS	2.5 oz + 2 oz + 32 oz + 16 oz + 1.5 qt	0	0	0	96	94	99	98	211
22 Realm Q + Abundit Extra + atrazine + NIS + AMS	4 oz + 32 oz + 0.25% + 1.5 qt	0	0	0	88	88	98	94	180
<u>Checks</u>									
23 Weedy Check	-	0	0	0	0	0	0	0	3
24 Weed-Free Check	-	100	100	100	100	100	100	100	204
	LSD (0.10)	1	3	1	2	3	1	2	13

2016 Corn Herbicide Evaluation Waseca

Corn @ \$3.00 / bushel

Herbicide	Rate	Pre					Final					Yield
		Gift	Corw	Colq	Rrpw	Vele	Gift	Corw	Colq	Rrpw	Vele	
<u>Preemergence</u>	(product/A)						% Control					Bu/A
1 Acuron	3 qt	90	94	94	94	94	84	99	99	99	99	187
<u>Preemergence/POST I (2" weeds)</u>												
2 Acuron Flexi / Acuron Flexi + NIS + AMS	1.12 qt / 1.12 qt + 0.25% + 1.5 qt	94	94	94	94	94	91	99	99	99	99	177
<u>Preemergence/POST II (2-4" weeds)</u>												
3 Acuron Flexi / Halex GT + NIS + AMS	1.12 qt / 3.6 pt + 0.25% + 1.5 qt	90	85	94	94	70	99	99	99	99	99	179
<u>Preemergence/POST III (4" weeds)</u>												
4 Harness / Diflexx + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 10 oz + 28 oz + 0.5% + 1.5 qt	80	94	94	94	75	99	99	99	99	99	188
5 Corvus / Liberty + atrazine + AMS	5.6 oz / 29 oz + 16 oz + 2 qt	75	85	90	90	94	98	99	99	99	99	182
6 Harness / Diflexx Duo + Roundup PowerMax + Destiny HC + AMS	1.25 pt / 24 oz + 28 oz + 0.5% + 1.5 qt	85	75	94	94	90	99	99	99	99	99	183
7 Breakfree NXT / Realm Q + Abundit Extra + atrazine + NIS + AMS	2 pt / 4 oz + 32 oz + 12 oz + 1.5 qt	94	80	94	94	75	97	99	99	99	99	183
8 Breakfree NXT Lite / Instigate + Abundit Extra + AMS	2 pt / 5.25 oz + 32 oz + 12 oz + 1.5 qt	94	94	94	94	94	99	99	99	99	99	172
9 TripleFlex II / Impact + Roundup PowerMax + MSO + AMS	2 pt / 0.75 oz + 32 oz + 1 % + 1.5 qt	85	85	80	85	90	97	99	99	99	99	181
10 Harness / Impact + Roundup PowerMax + MSO + AMS	36 oz / 0.75 oz + 32 oz + 1 % + 1.5 qt	90	90	85	94	80	99	99	99	99	92	179
11 TripleFlex II / Status + Roundup PowerMax + NIS + AMS	2 pt / 5 oz + 32 oz + 0.25 % + 1.5 qt	94	94	94	94	94	97	99	96	99	97	169
12 Harness / Roundup PowerMax + Status + AMS	36 oz / 32 oz + 5 oz + 1.5 qt	94	94	94	94	95	99	99	99	99	97	178
13 TripleFlex II / Impact + Roundup PowerMax + Destiny HC + AMS	2 pt / 0.75 oz + 32 oz + 0.5 % + 1.5 qt	94	94	94	94	94	99	99	99	99	99	185
14 Resicore / Durango + AMS	3 qt / 32 oz + 1.5 qt	90	85	85	90	75	84	99	99	99	99	182
15 Resicore / Resicore + Durango + AMS	1.5 qt / 1.25 qt + 32 oz + 1.5 qt	85	85	80	85	94	95	99	99	99	99	179
16 SureStart II / Durango + AMS	2.5 pt / 32 oz + 1.5 qt	85	85	94	94	70	97	99	99	99	95	177
17 Verdict / ArmezonPRO + atrazine + Roundup PowerMax + COC + AMS	10 oz / 16 oz + 16 oz + 32 oz + 1 pt + 1.5 qt	85	90	90	94	85	99	99	99	99	99	188
18 Verdict / Roundup PowerMax + Status + NIS + AMS	16 oz / 32 oz + 5 oz + 0.25% + 1.5 qt	94	90	94	94	80	97	99	99	99	99	187
19 Anthem Max / Solstice + Roundup PowerMax + AMS	4 oz / 32 oz + 3 oz + 1.5 qt	95	60	70	75	60	88	87	96	99	99	183
20 Harness / Impact + atrazine + Destiny HC + AMS	2.25 pt / 0.75 oz + 32 oz + 1% + 1.5 qt	85	80	94	94	80	97	99	99	99	90	172
<u>POST I (2" weeds)</u>												
21 Solstice + Anthem Max + Roundup PowerMax + atrazine + AMS	2.5 oz + 2 oz + 32 oz + 16 oz + 1.5 qt	0	0	0	0	0	88	99	99	99	99	184
22 Realm Q + Abundit Extra + atrazine + NIS + AMS	4 oz + 32 oz + 0.25% + 1.5 qt	0	0	0	0	0	89	99	99	99	99	180
<u>Checks</u>												
23 Weedy Check	-	0	0	0	0	0	0	0	0	0	0	119
24 Weed-Free Check	-	100	100	100	100	100	100	100	100	100	100	180
	LSD (0.10)	4	4	3	3	4	9	3	2	1	4	12