

Table 1. Weed management in corn with preemergence and postemergence applied herbicides.

Treatment ^a	Rate Product/Acre	Appln Timing	Corn stand ^b	Injury 31-May	Setfa	Abuth	Amata	Cheal	Polpy
					31-May				
				- (%) -	----- (% weed control ^c) -----				
Untreated	-		30	0	0	0	0	0	0
G-Max Lite + Balance Pro	3.5 pt + 1.5 fl oz	PRE	28	0	95	90	99	99	99
G-Max Lite (Distinct + NIS + AMS)	3.5 pt + (4.0 oz wt + 0.25 % v/v + 5.0 lb/100 gal)	PRE + (MPOST)	30	0	90	48	99	92	96
Dual II Magnum + (Impact + Atrazine + MSO + 28 % UAN)	1.12 pt + (0.5 fl oz + 1.0 pt + 1.0 % v/v + 2.5 % v/v)	PRE + (POST)	31	0	73	17	77	63	63
Outlook + (Impact + Atrazine + MSO + 28 % UAN)	13.0 fl oz + (0.5 fl oz + 1.0 pt + 1.0 % v/v + 2.5 % v/v)	PRE + (POST)	28	0	78	20	77	73	63
Radius + Atrazine	22.0 fl oz + 3.0 pt	PRE	31	0	93	96	99	99	99
Balance Pro + (Option + Callisto + MSO + 28 % UAN)	1.5 fl oz + (1.5 oz wt + 1.0 fl oz + 1.5 pt + 1.5 qt)	PRE + (MPOST)	30	0	85	78	99	99	96
Balance Pro + Atrazine (Roundup WeatherMAX + AMS)	1.5 fl oz + 1.5 pt + (22.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	29	0	82	77	98	99	99
Keystone + (Glyphomax XRT + AMS)	1.35 qt + (24.0 fl oz + 2.0 % w/w)	PRE + (MPOST)	30	0	83	40	99	98	93
Keystone + Glyphomax XRT + AMS	1.35 qt + 24.0 fl oz + 2.0 % w/w	POST	30	0	0	0	0	0	0
Surpass + (Hornet WDG + Callisto + Atrazine + COC + AMS)	2.5 pt + (3.0 oz wt + 0.75 fl oz + 0.25 lb + 1.0 % v/v + 2.0 % w/w)	PRE + (POST)	30	0	90	22	93	83	88
Resolve + Atrazine + (Roundup WeatherMAX + AMS)	1.0 oz wt + 1.0 lb + (22.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	29	0	68	42	95	87	85
Steadfast + Callisto + Atrazine + COC + AMS	0.75 oz wt + 2.0 fl oz + 0.5 lb + 1.0 % v/v + 2.0 lb	POST	29	0	0	0	0	0	0
Harness Xtra + (Roundup WeatherMAX + AMS)	1.2 qt + (22.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	31	0	88	43	99	95	93
Degree Xtra + Roundup WeatherMAX + AMS	2.0 qt + 22.0 fl oz + 17.0 lb/100 gal	POST	30	0	0	0	0	0	0
Lumax	3.0 qt	PRE	30	0	88	93	99	99	99
Lumax + (Touchdown Total + AMS)	2.0 qt + (24.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	29	0	85	88	99	99	99
Lumax + Touchdown Total + AMS	2.0 qt + 24.0 fl oz + 17.0 lb/100 gal	POST	29	0	0	0	0	0	0
LSD (P=0.05)			3	0	9	8	7	8	14

^aNIS=Activator 90, a non-ionic surfactant from UAP - Loveland Industries; AMS=ammonium sulfate fertilizer from Agrilience, LLC; MSO=methylated seed oil plus surfactant from UAP - Loveland Industries; 28 % UAN=mixture of urea and ammonium sulfate from United Suppliers; COC=Herbimax crop oil concentrate from UAP - Loveland Industries.

^bCorn stand per 17 ft 6 in. row on May 31.

^c% weed control (Setfa=giant foxtail, Abuth=velvetleaf, Amata=common waterhemp, Cheal=common lambsquarters, Polpy=Pennsylvania smartweed).

Table 2. Weed management in corn with preemergence and postemergence applied herbicides.

Treatment ^a	Rate Product/Acre	Appln Timing	Injury		Setfa	Abuth	Amata 19-Jun	Cheal	Polpy
			9-Jun	19-Jun					
			----- (%) -----		----- (% weed control ^b) -----				
Untreated	-		0	0	0	0	0	0	0
G-Max Lite + Balance Pro	3.5 pt + 1.5 fl oz	PRE	0	0	96	98	99	99	99
G-Max Lite (Distinct + NIS + AMS)	3.5 pt + (4.0 oz wt + 0.25 % v/v + 5.0 lb/100 gal)	PRE + (MPOST)	0	10	92	90	99	96	98
Dual II Magnum + (Impact + Atrazine + MSO + 28 % UAN)	1.12 pt + (0.5 fl oz + 1.0 pt + 1.0 % v/v + 2.5 % v/v)	PRE + (POST)	5	2	99	99	99	99	99
Outlook + (Impact + Atrazine + MSO + 28 % UAN)	13.0 fl oz + (0.5 fl oz + 1.0 pt + 1.0 % v/v + 2.5 % v/v)	PRE + (POST)	3	2	99	93	99	99	99
Radius + Atrazine	22.0 fl oz + 3.0 pt	PRE	0	0	95	98	99	99	99
Balance Pro + (Option + Callisto + MSO + 28 % UAN)	1.5 fl oz + (1.5 oz wt + 1.0 fl oz + 1.5 pt + 1.5 qt)	PRE + (MPOST)	0	8	95	99	99	99	98
Balance Pro + Atrazine (Roundup WeatherMAX + AMS)	1.5 fl oz + 1.5 pt + (22.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	0	2	99	99	99	99	99
Keystone + (Glyphomax XRT + AMS)	1.35 qt + (24.0 fl oz + 2.0 % w/w)	PRE + (MPOST)	0	2	99	99	99	99	98
Keystone + Glyphomax XRT + AMS	1.35 qt + 24.0 fl oz + 2.0 % w/w	POST	5	2	99	99	99	99	99
Surpass + (Hornet WDG + Callisto + Atrazine + COC + AMS)	2.5 pt + (3.0 oz wt + 0.75 fl oz + 0.25 lb + 1.0 % v/v + 2.0 % w/w)	PRE + (POST)	0	0	95	96	99	99	99
Resolve + Atrazine + (Roundup WeatherMAX + AMS)	1.0 oz wt + 1.0 lb + (22.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	0	5	99	99	99	99	99
Steadfast + Callisto + Atrazine + COC + AMS	0.75 oz wt + 2.0 fl oz + 0.5 lb + 1.0 % v/v + 2.0 lb	POST	5	2	98	99	99	99	99
Harness Xtra + (Roundup WeatherMAX + AMS)	1.2 qt + (22.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	0	2	99	99	99	99	98
Degree Xtra + Roundup WeatherMAX + AMS	2.0 qt + 22.0 fl oz + 17.0 lb/100 gal	POST	3	3	99	99	99	99	99
Lumax	3.0 qt	PRE	0	0	85	98	99	99	99
Lumax + (Touchdown Total + AMS)	2.0 qt + (24.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	0	2	99	99	99	99	99
Lumax + Touchdown Total + AMS	2.0 qt + 24.0 fl oz + 17.0 lb/100 gal	POST	7	0	99	99	99	99	99
LSD (P=0.05)			2	4	4	3	0	1	2

^aNIS=Activator 90, a non-ionic surfactant from UAP - Loveland Industries; AMS=ammonium sulfate fertilizer from Agrilience, LLC; MSO=methylated seed oil plus surfactant from UAP - Loveland Industries; 28 % UAN=mixture of urea and ammonium sulfate from United Suppliers; COC=Herbimax crop oil concentrate from UAP - Loveland Industries.

^b% weed control (Setfa=giant foxtail, Abuth=velvetleaf, Amata=common waterhemp, Cheal=common lamb's quarters, Polpy=Pennsylvania smartweed).

Table 3. Weed management in corn with preemergence and postemergence applied herbicides.

Treatment ^a	Rate	Appln Timing	Injury 28-Jul	Setfa	Abuth	Amata	Cheal	Polpy	Yield 23-Oct
	Product/Acre		- (%) -	----- (% weed control ^b) -----					(bu/acre)
Untreated	-		0	0	0	0	0	0	131
G-Max Lite + Balance Pro	3.5 pt + 1.5 fl oz	PRE	0	93	98	98	99	99	161
G-Max Lite (Distinct + NIS + AMS)	3.5 pt + (4.0 oz wt + 0.25 % v/v + 5.0 lb/100 gal)	PRE + (MPOST)	0	88	95	99	99	99	181
Dual II Magnum + (Impact + Atrazine + MSO + 28 % UAN)	1.12 pt + (0.5 fl oz + 1.0 pt + 1.0 % v/v + 2.5 % v/v)	PRE + (POST)	0	95	85	99	99	99	173
Outlook + (Impact + Atrazine + MSO + 28 % UAN)	13.0 fl oz + (0.5 fl oz + 1.0 pt + 1.0 % v/v + 2.5 % v/v)	PRE + (POST)	0	92	83	99	99	99	182
Radius + Atrazine	22.0 fl oz + 3.0 pt	PRE	0	92	98	99	99	99	170
Balance Pro + (Option + Callisto + MSO + 28 % UAN)	1.5 fl oz + (1.5 oz wt + 1.0 fl oz + 1.5 pt + 1.5 qt)	PRE + (MPOST)	0	90	99	99	99	98	162
Balance Pro + Atrazine (Roundup WeatherMAX + AMS)	1.5 fl oz + 1.5 pt + (22.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	0	92	98	99	98	99	172
Keystone + (Glyphomax XRT + AMS)	1.35 qt + (24.0 fl oz + 2.0 % w/w)	PRE + (MPOST)	0	95	88	98	96	99	164
Keystone + Glyphomax XRT + AMS	1.35 qt + 24.0 fl oz + 2.0 % w/w	POST	0	95	75	99	99	99	172
Surpass + (Hornet WDG + Callisto + Atrazine + COC + AMS)	2.5 pt + (3.0 oz wt + 0.75 fl oz + 0.25 lb + 1.0 % v/v + 2.0 % w/w)	PRE + (POST)	0	90	95	99	96	99	173
Resolve + Atrazine + (Roundup WeatherMAX + AMS)	1.0 oz wt + 1.0 lb + (22.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	0	90	83	98	96	99	147
Steadfast + Callisto + Atrazine + COC + AMS	0.75 oz wt + 2.0 fl oz + 0.5 lb + 1.0 % v/v + 2.0 lb	POST	0	90	99	99	99	99	166
Harness Xtra + (Roundup WeatherMAX + AMS)	1.2 qt + (22.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	0	96	88	99	95	96	182
Degree Xtra + Roundup WeatherMAX + AMS	2.0 qt + 22.0 fl oz + 17.0 lb/100 gal	POST	0	93	78	99	98	99	184
Lumax	3.0 qt	PRE	0	77	98	99	99	99	168
Lumax + (Touchdown Total + AMS)	2.0 qt + (24.0 fl oz + 17.0 lb/100 gal)	PRE + (MPOST)	0	98	99	99	99	99	177
Lumax + Touchdown Total + AMS	2.0 qt + 24.0 fl oz + 17.0 lb/100 gal	POST	0	93	99	99	99	99	175
LSD (P=0.05)			0	5	8	2	3	1	24

^aNIS=Activator 90, a non-ionic surfactant from UAP - Loveland Industries; AMS=ammonium sulfate fertilizer from Agrilience, LLC; MSO=methylated seed oil plus surfactant from UAP - Loveland Industries; 28 % UAN=mixture of urea and ammonium sulfate from United Suppliers; COC=Herbimax crop oil concentrate from UAP - Loveland Industries.

^b% weed control (Setfa=giant foxtail, Abuth=velvetleaf, Amata=common waterhemp, Cheal=common lamb's quarters, Polpy=Pennsylvania smartweed).