

Table 1. Preemergence and postemergence applied herbicide combinations for weed control in corn.

Treatment ^a	Rate	Appl time	Corn ^b stand	Injury 6/17	Setfa 6/17	Abuth 6/17	Amata 6/17	Cheal 6/17	Polpy 6/17
	Product/acre			- (%) -	----- (% weed control ^c) -----				
Untreated	-	-	33	0	0	0	0	0	0
Balance Pro 4 SC + Atrazine 4 L + (Option 35 WG + MSO + 28% UAN)	1.5 fl oz + 1.0 qt + (1.5 oz wt + 1.5 pt + 1.5 qt)	PRE + (POST)	33	0	98	98	99	99	99
Balance Pro 4 SC + Define 4 SC + Atrazine 4 L	2.0 fl oz + 17.0 fl oz + 1.5 qt	PRE	34	0	99	99	99	99	99
Equip 32 WG + Distinct 70 WG + Atrazine 4 L + MSO + 28% UAN	1.5 oz wt + 3.0 oz wt + 0.5 qt + 1.5 pt + 1.5 qt	POST	34	0	0	0	0	0	0
Outlook 6 EC + (Distinct 70 WG + NIS + 28% UAN)	21.0 fl oz + (4.0 oz wt + 0.25 % + 1.25 %)	PRE + (POST)	33	0	96	5	98	68	43
G-Max Lite 5 SC + (Clarity 4 SL + Roundup 3 SL + NIS + AMS)	2.0 pt + (8.0 fl oz + 16.0 fl oz + 0.25 % + 2.5 lb)	PRE + (POST)	33	0	98	58	99	99	90
Roundup 3 SL + Distinct 70 WG + NIS + AMS + (Roundup 3 SL + AMS)	16.0 fl oz + 4.0 oz wt + 0.25 % + 2.5 lb + (24.0 fl oz + 2.5 lb)	POST + (SPOST)	34	0	0	0	0	0	0
Prowl H ₂ O 3.8 EC + Roundup 3 SL + NIS + AMS	4.0 pt + 24.0 fl oz + 0.25 % + 2.5 lb	POST	34	0	0	0	0	0	0
FulTime 4 CS + Hornet WDG 68.5 WG	3.35 qt + 3.0 oz wt	PRE	34	0	99	95	99	99	99
Surpass 6.4 EC + (Hornet WDG 68.5 WG + Callisto 4 SC + Atrazine 90 DF + COC + 28% UAN)	2.5 pt + (3.0 oz wt + 0.75 fl oz + 0.28 lb + 1.0 % + 2.5 %)	PRE + (POST)	34	0	98	7	99	73	43
Keystone 5.25 SE + (Hornet WDG 68.5 WG + Steadfast 75 WG + COC + 28% UAN)	1.75 qt + (3.0 oz wt + 0.56 oz wt + 1.0 % + 2.5 %)	PRE + (POST)	35	0	99	85	99	99	96
Keystone 5.25 SE + (Glyphomax Plus 3 SL + AMS)	1.75 qt + (2.0 pt + 2.5 lb)	PRE + (POST)	34	0	98	75	99	99	99
Steadfast 75 WG + Callisto 4 SC + Atrazine 90 DF + Agridex + AMS	0.75 oz wt + 1.5 fl oz + 13.3 oz wt + 1.0 % + 2.0 lb	POST	34	0	0	0	0	0	0
Harness Xtra 6 SE + (Permit 75 DF + NIS + 28% UAN)	2.3 qt + (0.67 oz wt + 0.25 % + 2.0 qt)	PRE + (POST)	33	0	99	85	99	99	99
Bicep Lite II Magnum 6 L + (Northstar 47.4 WG + NIS + 28% UAN)	2.0 qt + (5.0 oz wt + 0.25 % + 2.0 %)	PRE + (POST)	35	0	99	83	98	99	99
LSD (P=0.05)			2	0	2	11	1	11	4

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

^b Corn stand per 17' 5" row feet on July 29.

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

Table 2. Preemergence and postemergence applied herbicide combinations for weed control in corn.

Treatment ^a	Rate	Appl time	Injury 7/3	Setfa 7/3	Abuth 7/3	Amata 7/3	Cheal 7/3	Polpy 7/3
	Product/acre		- (%) -	----- (% weed control ^b) -----				
Untreated	-	-	0	0	0	0	0	0
Balance Pro 4 SC + Atrazine 4 L + (Option 35 WG + MSO + 28% UAN)	1.5 fl oz + 1.0 qt + (1.5 oz wt + 1.5 pt + 1.5 qt)	PRE + (POST)	3	99	99	99	99	99
Balance Pro 4 SC + Define 4 SC + Atrazine 4 L	2.0 fl oz + 17.0 fl oz + 1.5 qt	PRE	0	99	99	99	99	99
Equip 32 WG + Distinct 70 WG + Atrazine 4 L + MSO + 28% UAN	1.5 oz wt + 3.0 oz wt + 0.5 qt + 1.5 pt + 1.5 qt	POST	3	98	98	96	99	99
Outlook 6 EC + (Distinct 70 WG + NIS + 28% UAN)	21.0 fl oz + (4.0 oz wt + 0.25 % + 1.25 %)	PRE + (POST)	3	98	93	99	99	99
G-Max Lite 5 SC + (Clarity 4 SL + Roundup 3 SL + NIS + AMS)	2.0 pt + (8.0 fl oz + 16.0 fl oz + 0.25 % + 2.5 lb)	PRE + (POST)	3	98	99	99	99	99
Roundup 3 SL + Distinct 70 WG + NIS + AMS + (Roundup 3 SL + AMS)	16.0 fl oz + 4.0 oz wt + 0.25 % + 2.5 lb + (24.0 fl oz + 2.5 lb)	POST + (SPOST)	2	99	99	99	99	99
Prowl H ₂ O 3.8 EC + Roundup 3 SL + NIS + AMS	4.0 pt + 24.0 fl oz + 0.25 % + 2.5 lb	POST	0	99	98	96	90	98
FulTime 4 CS + Hornet WDG 68.5 WG	3.35 qt + 3.0 oz wt	PRE	0	99	96	99	99	99
Surpass 6.4 EC + (Hornet WDG 68.5 WG + Callisto 4 SC + Atrazine 90 DF + COC + 28% UAN)	2.5 pt + (3.0 oz wt + 0.75 fl oz + 0.28 lb + 1.0 % + 2.5 %)	PRE + (POST)	2	98	99	99	99	99
Keystone 5.25 SE + (Hornet WDG 68.5 WG + Steadfast 75 WG + COC + 28% UAN)	1.75 qt + (3.0 oz wt + 0.56 oz wt + 1.0 % + 2.5 %)	PRE + (POST)	8	99	99	99	99	99
Keystone 5.25 SE + (Glyphomax Plus 3 SL + AMS)	1.75 qt + (2.0 pt + 2.5 lb)	PRE + (POST)	0	99	98	99	99	99
Steadfast 75 WG + Callisto 4 SC + Atrazine 90 DF + Agridex + AMS	0.75 oz wt + 1.5 fl oz + 13.3 oz wt + 1.0 % + 2.0 lb	POST	2	99	99	99	99	99
Harness Xtra 6 SE + (Permit 75 DF + NIS + 28% UAN)	2.3 qt + (0.67 oz wt + 0.25 % + 2.0 qt)	PRE + (POST)	0	99	99	99	99	99
Bicep Lite II Magnum 6 L + (Northstar 47.4 WG + NIS + 28% UAN)	2.0 qt + (5.0 oz wt + 0.25 % + 2.0 %)	PRE + (POST)	0	99	99	99	99	99
LSD (P=0.05)			3	2	3	2	2	1

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

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

Table 3. Preemergence and postemergence applied herbicide combinations for weed control in corn.

Treatment ^a	Rate Product/acre	Appl time	Setfa	Abuth	Amata	Cheal	Polpy	Yield Bu/A ^c
			7/29	7/29	7/29	7/29	7/29	
Untreated	-	-	0	0	0	0	0	112
Balance Pro 4 SC + Atrazine 4 L + (Option 35 WG + MSO + 28% UAN)	1.5 fl oz + 1.0 qt + (1.5 oz wt + 1.5 pt + 1.5 qt)	PRE + (POST)	99	98	99	99	99	132
Balance Pro 4 SC + Define 4 SC + Atrazine 4 L	2.0 fl oz + 17.0 fl oz + 1.5 qt	PRE	99	99	99	99	99	140
Equip 32 WG + Distinct 70 WG + Atrazine 4 L + MSO + 28% UAN	1.5 oz wt + 3.0 oz wt + 0.5 qt + 1.5 pt + 1.5 qt	POST	99	98	96	99	99	136
Outlook 6 EC + (Distinct 70 WG + NIS + 28% UAN)	21.0 fl oz + (4.0 oz wt + 0.25 % + 1.25 %)	PRE + (POST)	98	95	99	98	99	134
G-Max Lite 5 SC + (Clarity 4 SL + Roundup 3 SL + NIS + AMS)	2.0 pt + (8.0 fl oz + 16.0 fl oz + 0.25 % + 2.5 lb)	PRE + (POST)	98	93	99	99	99	133
Roundup 3 SL + Distinct 70 WG + NIS + AMS + (Roundup 3 SL + AMS)	16.0 fl oz + 4.0 oz wt + 0.25 % + 2.5 lb + (24.0 fl oz + 2.5 lb)	POST + (SPOST)	99	99	99	99	99	139
Prowl H ₂ O 3.8 EC + Roundup 3 SL + NIS + AMS	4.0 pt + 24.0 fl oz + 0.25 % + 2.5 lb	POST	98	99	96	88	99	130
FulTime 4 CS + Hornet WDG 68.5 WG	3.35 qt + 3.0 oz wt	PRE	99	96	99	99	99	154
Surpass 6.4 EC + (Hornet WDG 68.5 WG + Callisto 4 SC + Atrazine 90 DF + COC + 28% UAN)	2.5 pt + (3.0 oz wt + 0.75 fl oz + 0.28 lb + 1.0 % + 2.5 %)	PRE + (POST)	93	99	99	99	99	139
Keystone 5.25 SE + (Hornet WDG 68.5 WG + Steadfast 75 WG + COC + 28% UAN)	1.75 qt + (3.0 oz wt + 0.56 oz wt + 1.0 % + 2.5 %)	PRE + (POST)	99	99	99	99	99	135
Keystone 5.25 SE + (Glyphomax Plus 3 SL + AMS)	1.75 qt + (2.0 pt + 2.5 lb)	PRE + (POST)	99	96	99	99	99	140
Steadfast 75 WG + Callisto 4 SC + Atrazine 90 DF + Agridex + AMS	0.75 oz wt + 1.5 fl oz + 13.3 oz wt + 1.0 % + 2.0 lb	POST	99	99	99	99	99	128
Harness Xtra 6 SE + (Permit 75 DF + NIS + 28% UAN)	2.3 qt + (0.67 oz wt + 0.25 % + 2.0 qt)	PRE + (POST)	96	99	99	99	99	127
Bicep Lite II Magnum 6 L + (Northstar 47.4 WG + NIS + 28% UAN)	2.0 qt + (5.0 oz wt + 0.25 % + 2.0 %)	PRE + (POST)	99	98	99	99	99	140
LSD (P=0.05)			3	3	2	3	0	21

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

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

^c Bu/A = bushels/Acre.