

Weed control in corn.

The objective of this study was to evaluate general weed control in corn with various soil-applied and postemergence herbicides. The study was conducted under conventional tillage. Corn (Mycogen 2K154) was planted May 14 followed by preemergence (PRE) herbicide applications on May 15. One treatment consisted of a split application of glyphosate applied at V3 followed by V4 to V5. All other treatments consisted of a PRE followed by a POST application at V4 to V5.

All treatments provided excellent wild oat control. Only two treatments provided greater than 80% yellow foxtail control (Balance fb Gly + Atrazine and Zidua fb Gly + Atrazine). Only four treatments provided greater than 90% wild buckwheat control (Acet fb Liberty + Atrazine; Acet + Clarity fb Gly + Atrazine; Sharpen + Outlook fb Gly + Atrazine; and Acet fb Capreno + Atrazine). It is likely that a new weed flush emerged after the POST application, which contributed to the lower weed control.

Treatment ^a	Rate	Timing	Weed Control									
			Wild oat			Yellow foxtail			Wild buckwheat			
			Jul-2	Aug-1	Aug-22	Jul-2	Aug-1	Aug-22	Jul-2	Aug-1	Aug-22	
-----%-----			-----%-----			-----%-----						
Untreated			0	0	0	0	0	0	0	0	0	0
Gly ^b / Gly ^b	22 oz / 22 oz	V3 / V4-5	100	100	100	99	78	77	92	77	78	
Acet / Liberty + Atr + AMS	1.75 pt / 22 oz + 0.375 lb ai + 8.82%	PRE / V4-5	96	95	95	96	64	64	99	91	90	
Acet / Gly + Atr ^b	1.75 pt / 22 oz + 0.375 lb ai	PRE / V4-5	99	100	100	95	69	71	88	88	87	
Balance Pro / Gly + Atr ^b	2.5 oz / 22 oz + 0.375 lb ai	PRE / V4-5	99	100	100	98	93	94	87	76	77	
Acet / SF + Clarity + Atr ^c	1.75 pt / 0.75 oz + 4 oz + 0.375 lb ai	PRE / V4-5	95	100	100	89	70	70	96	82	83	
Acet / Option + Status ^c	1.75 pt / 1.5 oz + 5 oz	PRE / V4-5	95	100	100	89	68	66	96	85	82	
Acet + Clarity / Gly + Atr ^b	1.25 pt + 0.5 pt / 22 oz + 0.375 lb ai	PRE / V4-5	98	100	100	93	68	68	87	91	91	
Zidua / Gly + Atr ^b	3 oz / 22 oz + 0.375 lb ai	PRE / V4-5	99	100	100	99	84	84	90	93	89	
Sharpen + Outlook / Gly + Atr ^b	3 oz + 12.5 oz / 22 oz + 0.375 lb ai	PRE / V4-5	97	100	100	86	72	73	96	96	96	
Acet / Armezon + Atr + MSO ^b	1.75 pt / 0.75 oz + 0.375 lb ai + 1%	PRE / V4-5	94	100	98	95	65	68	89	56	57	
Acet / Capreno + Atr + MSO ^b	1.75 pt / 3 oz + 0.375 lb ai + 1%	PRE / V4-5	95	91	91	98	82	79	98	93	92	
LSD (0.05)			3.8	4.6	4.9	6.7	11.8	12.1	6.1	14.2	15.4	
CV			2.5	3.0	3.2	4.6	10.3	10.6	4.2	10.8	11.9	
^a Gly=Glyphosate; Acet=Acetochlor; Atr=Atrazine; SF=Steadfast												
^b Applied with AMS (2.5%)												
^c Applied with MSO (1.5 pt) and UAN (2 qt)												