

**Table 1. Pre-emergence followed by post-emergence applied Distinct, Lightning, and others for woolly cupgrass control in imidazolinone tolerant corn.**

Treatment <sup>a</sup>	Rate Product/Acre	Appl time	Corn <sup>b</sup> stand	Corn injury			Wocu	Colq	Cowh
				6/13	6/26	7/12	6/13	6/13	6/13
				----- (%) -----			--- (% weed control <sup>c</sup> ) ----		
Control	-	-	25	0	0	0	0	0	0
Outlook 6EC + Balance Pro 4SC	21.0 oz + 1.5 oz	PRE	20	0	2	0	93	93	99
Outlook 6EC + Balance Pro 4SC + Atrazine 90DF	21.0 oz + 1.5 oz + 1.0 lb	PRE	22	0	3	0	87	96	99
Outlook 6EC + (Distinct 70WG + Newtone + AMS)	21.0 oz + (4.0 oz + 1.0 % + 5.0 lb/100 gal)	PRE + (POST)	23	0	3	0	85	50	99
Outlook 6EC + (Distinct 70WG + Accent 75WG + Newtone + AMS)	21.0 oz + (4.0 oz + 0.32 oz + 1.0 % + 1.0 lb)	PRE + (POST)	22	0	3	0	82	52	99
Outlook 6EC + (Celebrity Plus 70WG + Newtone + AMS)	10.0 oz + (4.7 oz + 1.0 % + 1.0 lb)	PRE + (POST)	22	0	2	0	63	30	99
Outlook 6EC + (Lightning 70DG + Distinct 70WG + Newtone + AMS)	10.0 oz + (1.28 oz + 4.0 oz + 1.0 % + 1.0 lb)	PRE + (POST)	23	0	5	0	60	32	99
Surpass 6.4EC + (Celebrity Plus 70WG + NIS + 28%N)	2.5 pt + (4.7 oz + 0.25 % + 2.5 %)	PRE + (POST)	21	0	3	0	68	57	99
Surpass 6.4EC + (Hornet WDG 68.5WG + Steadfast 75WDG + COC + 28%N)	2.5 pt + (3.0 oz + 0.75 oz + 1.0 % + 2.5 %)	PRE + (POST)	21	0	2	0	60	58	99
Surpass 6.4EC + (Hornet WDG 68.5WG + Steadfast 75WDG + COC + 28%N)	2.5 pt + (3.0 oz + 0.38 oz + 1.0 % + 2.5 %)	PRE + (POST)	21	0	2	0	63	63	99
Balance Pro 4SC + (Steadfast 75WDG + Clarity 4SL + COC + 28%N)	1.5 oz + (0.75 oz + 0.25 pt + 1.0 % + 2.0 qt)	PRE + (POST)	26	0	3	0	53	75	99
Balance Pro 4SC + (Steadfast 75WDG + Callisto 4SC + COC + 28%N)	1.5 oz + (0.75 oz + 2.0 oz + 1.0 % + 2.0 qt)	PRE + (POST)	25	0	2	0	58	77	99
Balance Pro 4SC + (Accent Gold 83.8DF + COC + 28%N)	1.5 oz + (2.9 oz + 1.0 % + 2.0 qt)	PRE + (POST)	22	0	5	0	50	78	99
Leadoff 5SL + (Basis Gold 89.5DF + Clarity 4SL + COC + 28%N)	0.75 qt + (14.0 oz + 0.25 pt + 1.0 % + 2.0 qt)	PRE + (POST)	23	0	2	0	52	77	98
Leadoff 5SL + (Accent Gold 83.8DF + Clarity 4SL + COC + 28%N)	0.75 qt + (2.9 oz + 0.25 pt + 1.0 % + 2.0 qt)	PRE + (POST)	25	0	3	0	50	77	99
LSD (0.05)			4	0	6	0	34	31	1

<sup>a</sup> Newtone = a basic blend adjuvant premix from Agrilience, NIS = Activator 90, a nonionic surfactant penetrant from Loveland Industries, 28%N = mixture of urea and ammonium nitrate, COC = Herbimax, an oil-surfactant from Loveland Industries.

<sup>b</sup> Corn stand per 17.5 row feet on June 28.

<sup>c</sup> Percent weed control: Wocu = woolly cupgrass, Colq = common lambsquarters, Cowh = common waterhemp.

**Table 2. Pre-emergence followed by post-emergence applied Distinct, Lightning, and others for woolly cupgrass control in imidazolinone tolerant corn.**

Treatment <sup>a</sup>	Rate	Appl time	Wocu 7/12	Colq 7/12	Cowh 7/12	Wocu 8/17	Colq 8/17	Cowh 8/17
Product/Acre		----- (% weed control <sup>b</sup> ) -----						
Control	-	-	0	0	0	0	0	0
Outlook 6EC + Balance Pro 4SC	21.0 oz + 1.5 oz	PRE	90	92	99	87	90	99
Outlook 6EC + Balance Pro 4SC + Atrazine 90DF	21.0 oz + 1.5 oz + 1.0 lb	PRE	88	98	98	83	98	98
Outlook 6EC + (Distinct 70WG + Newtone + AMS)	21.0 oz + (4.0 oz + 1.0 % + 5.0 lb/100 gal)	PRE + (POST)	88	99	99	82	99	99
Outlook 6EC + (Distinct 70WG + Accent 75WG + Newtone + AMS)	21.0 oz + (4.0 oz + 0.32 oz + 1.0 % + 1.0 lb)	PRE + (POST)	87	99	99	82	99	99
Outlook 6EC + (Celebrity Plus 70WG + Newtone + AMS)	10.0 oz + (4.7 oz + 1.0 % + 1.0 lb)	PRE + (POST)	85	99	99	73	98	99
Outlook 6EC + (Lightning 70DG + Distinct 70WG + Newtone + AMS)	10.0 oz + (1.28 oz + 4.0 oz + 1.0 % + 1.0 lb)	PRE + (POST)	93	99	96	87	99	96
Surpass 6.4EC + (Celebrity Plus 70WG + NIS + 28%N)	2.5 pt + (4.7 oz + 0.25 % + 2.5 %)	PRE + (POST)	87	99	99	78	99	98
Surpass 6.4EC + (Hornet WDG 68.5WG + Steadfast 75WDG + COC + 28%N)	2.5 pt + (3.0 oz + 0.75 oz + 1.0 % + 2.5 %)	PRE + (POST)	67	98	99	50	96	99
Surpass 6.4EC + (Hornet WDG 68.5WG + Steadfast 75WDG + COC + 28%N)	2.5 pt + (3.0 oz + 0.38 oz + 1.0 % + 2.5 %)	PRE + (POST)	73	99	99	63	96	96
Balance Pro 4SC + (Steadfast 75WDG + Clarity 4SL + COC + 28%N)	1.5 oz + (0.75 oz + 0.25 pt + 1.0 % + 2.0 qt)	PRE + (POST)	77	99	99	70	98	98
Balance Pro 4SC + (Steadfast 75WDG + Callisto 4SC + COC + 28%N)	1.5 oz + (0.75 oz + 2.0 oz + 1.0 % + 2.0 qt)	PRE + (POST)	82	99	99	75	99	99
Balance Pro 4SC + (Accent Gold 83.8DF + COC + 28%N)	1.5 oz + (2.9 oz + 1.0 % + 2.0 qt)	PRE + (POST)	68	99	99	60	99	99
Leadoff 5SL + (Basis Gold 89.5DF + Clarity 4SL + COC + 28%N)	0.75 qt + (14.0 oz + 0.25 pt + 1.0 % + 2.0 qt)	PRE + (POST)	70	99	99	60	99	98
Leadoff 5SL + (Accent Gold 83.8DF + Clarity 4SL + COC + 28%N)	0.75 qt + (2.9 oz + 0.25 pt + 1.0 % + 2.0 qt)	PRE + (POST)	55	99	99	48	99	99
LSD (0.05)			22	3	2	28	4	3

<sup>a</sup> Newtone = a basic blend adjuvant premix from Agrilience, NIS = Activator 90, a non-ionic surfactant penetrant from Loveland Industries, 28%N = mixture of urea and ammonium nitrate, COC = Herbimax, an oil-surfactant from Loveland Industries.

<sup>b</sup> Percent weed control: Wocu = woolly cupgrass, Colq = common lambsquarters, Cowh = common waterhemp.