

Table 1. Postemergence applied Marksman, Clarity, Lightning, Aim and other herbicides for weed control in an imidazolinone tolerant corn variety.

Treatment ^a	Rate Product/Acre	Appl time	Corn ^b stand	Corn injury					Gift 6/15	Colq 6/15	Cowh 6/15	Pesw 6/15	Vele 6/15
				6/1	6/15	6/28	7/6	7/27					
Control	-	-	30	0	0	0	0	0	0	0	0	0	0
Outlook 6EC + (Marksman 3.2SC + AMS)	21.0 oz + (3.5 pt + 2.5 lb)	PRE + (EPOST)	30	0	0	7	10	5	99	90	98	70	23
Outlook 6EC + (Distinct 70WG + NIS + AMS)	21.0 oz + (6.0 oz + 0.25 % + 5.0 lb/100 gal)	PRE + (POST)	31	0	0	8	8	0	99	85	99	70	10
Guardsman Max 5SE + (Clarity 4SL + AMS)	1.75 qt + (1.0 pt + 5.0 lb/100 gal)	PRE + (EPOST)	31	0	0	15	8	2	99	99	99	95	70
Guardsman Max 5SE + (Distinct 70WG + NIS + AMS)	1.87 qt + (4.0 oz + 0.25 % + 5.0 lb/100 gal)	PRE + (POST)	31	0	0	5	5	0	98	99	98	96	70
Outlook 6EC + (Celebrity Plus 70WG + Newtone + AMS)	10.0 oz + (4.7 oz + 1.0 % + 1.0 lb)	PRE + (POST)	31	0	0	5	2	0	95	53	99	33	13
Outlook 6EC + (Lightning 70DG + Distinct 70WG + Newtone + AMS)	10.0 oz + (1.3 oz + 4.0 oz + 1.0 % + 1.0 lb)	PRE + (POST)	31	0	0	5	3	0	95	53	99	27	2
Lightning 70DG + Distinct 70WG + Newtone + AMS	1.3 oz + 4.0 oz + 1.0 % + 1.0 lb	EPOST	32	0	0	7	8	5	0	0	0	0	0
Lightning 70DG + Marksman 3.2SC Newtone + AMS	1.3 oz + 2.5 pt 1.0 % + 1.0 lb	EPOST	30	0	0	10	10	3	0	0	0	0	0
Dual II Magnum 7.64EC + (Aim 40DF + Atrazine 90DF + Clarity 4SL + NIS)	1.5 pt + (0.32 oz + 0.56 lb + 0.25 pt + 0.25 %)	PRE + (EPOST)	32	0	0	10	5	0	95	33	96	22	10
Dual II Magnum 7.64EC + (Aim 40DF + Hornet WDG 68.5WG + NIS)	1.5 pt + (0.32 oz + 3.0 oz + 0.25 %)	PRE + (EPOST)	31	0	0	5	5	0	98	42	98	32	5
Dual II Magnum 7.64EC + (Aim 40DF + Atrazine 90DF + COC)	1.5 pt + (0.32 oz + 1.1 lb + 1.0 %)	PRE + (EPOST)	32	0	0	8	5	0	98	45	98	27	10
Aim 40DF + Accent Gold 83.8DF + COC + 28%N)	0.16 oz + 2.9 oz + 1.0 % + 4.0 qt)	EPOST	30	0	0	5	5	0	0	0	0	0	0
Dual II Magnum 7.64EC + (Aim 40DF + Northstar 47.4WG + NIS)	1.5 pt + (0.32 oz + 4.0 oz + 0.25 %)	PRE + (EPOST)	31	0	0	7	5	0	96	35	98	25	7
Teamwork 40DF + Atrazine 4L + Sterling 4SL + Preference + Dry AMS	0.32 oz + 0.42 qt + 4.0 oz + 0.25 % + 2.0 lb	EPOST	30	0	0	7	5	0	0	0	0	0	0
Degree 3.8 CS + (Permit 75WG + NIS)	4.6 pt + (0.67 oz + 0.25 %)	PRE + (POST)	32	0	0	0	0	0	99	88	99	70	7
Degree 3.8 CS + (Permit 75WG + Clarity 4SL + NIS)	4.6 pt + 0.67 oz + 0.25 pt + 0.25 %)	PRE + (POST)	30	0	0	8	5	0	96	90	99	82	18
LSD (0.05)			2	0	0	3	4	3	4	17	3	17	13

^a NIS = Activator 90, a non-ionic surfactant penetrant from Loveland Industries; Newtone = a basic blend adjuvant premix from

Agriliance; COC = Herbimax, and oil-surfactant adjuvant from Loveland Industries; 28%N = mixture of urea and ammonium nitrate.

^b Corn stand per 17.5 row feet on June 15.

^c Percent weed control: Gift = giant foxtail, Colq = common lambsquarters, Cowh = common waterhemp,

Table 2. Postemergence applied Marksman, Clarity, Lightning, Aim and other herbicides for weed control in an imidazolinone tolerant corn variety.

Treatment ^a	Rate Product/Acre	Appl time	Gift	Colq	Cowh	Pesw	Vele	Gift	Colq	Cowh	Pesw	Vele	Gift	Colq	Cowh	Pesw	Vele
			7/6	7/6	7/6	7/6	7/6	7/27	7/27	7/27	7/27	7/27	8/22	8/22	8/22	8/22	8/22
			----- (% weed control ^b) -----														
Control	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Outlook 6EC + (Marksman 3.2SC + AMS)	21.0 oz + (3.5 pt + 2.5 lb)	PRE + (EPOST)	99	99	99	96	92	95	99	98	95	95	93	99	98	95	95
Outlook 6EC + (Distinct 70WG + NIS + AMS)	21.0 oz + (6.0 oz + 0.25 % + 5.0 lb/100 gal)	PRE + (POST)	99	99	99	99	83	96	99	99	99	98	95	99	98	99	96
Guardsman Max 5SE + (Clarity 4SL + AMS)	1.75 qt + (1.0 pt + 5.0 lb/100 gal)	PRE + (EPOST)	99	99	96	99	93	96	99	95	98	92	95	99	95	98	92
Guardsman Max 5SE + (Distinct 70WG + NIS + AMS)	1.87 qt + (4.0 oz + 0.25 % + 5.0 lb/100 gal)	PRE + (POST)	99	99	98	99	85	93	99	99	99	92	92	99	96	99	92
Outlook 6EC + (Celebrity Plus 70WG + Newtone + AMS)	10.0 oz + (4.7 oz + 1.0 % + 1.0 lb)	PRE + (POST)	99	96	99	99	87	98	99	99	99	96	98	99	99	99	98
Outlook 6EC + (Lightning 70DG + Distinct 70WG + Newtone + AMS)	10.0 oz + (1.3 oz + 4.0 oz + 1.0 % + 1.0 lb)	PRE + (POST)	99	95	99	99	93	98	98	99	99	96	96	98	99	99	98
Lightning 70DG + Distinct 70WG + Newtone + AMS	1.3 oz + 4.0 oz + 1.0 % + 1.0 lb	EPOST	93	95	90	93	92	93	98	83	98	95	93	98	87	98	95
Lightning 70DG + Marksman 3.2SC Newtone + AMS	1.3 oz + 2.5 pt 1.0 % + 1.0 lb	EPOST	92	99	95	99	90	92	99	96	99	93	88	99	93	99	93
Dual II Magnum 7.64EC + (Aim 40DF + Atrazine 90DF + Clarity 4SL + NIS)	1.5 pt + (0.32 oz + 0.56 lb + 0.25 pt + 0.25 %)	PRE + (EPOST)	96	99	99	83	88	88	99	95	75	87	88	99	95	70	87
Dual II Magnum 7.64EC + (Aim 40DF + Hornet WDG 68.5WG + NIS)	1.5 pt + (0.32 oz + 3.0 oz + 0.25 %)	PRE + (EPOST)	98	93	98	87	90	90	90	96	82	80	88	92	96	80	78
Dual II Magnum 7.64EC + (Aim 40DF + Atrazine 90DF + COC)	1.5 pt + (0.32 oz + 1.1 lb + 1.0 %)	PRE + (EPOST)	98	99	99	95	95	95	99	98	96	92	93	99	98	95	90
Aim 40DF + Accent Gold 83.8DF + COC + 28%N)	0.16 oz + 2.9 oz + 1.0 % + 4.0 qt)	EPOST	90	92	70	93	93	92	90	55	92	95	92	88	50	92	95
Dual II Magnum 7.64EC + (Aim 40DF + Northstar 47.4WG + NIS)	1.5 pt + (0.32 oz + 4.0 oz + 0.25 %)	PRE + (EPOST)	98	93	99	83	85	95	95	99	80	78	95	95	96	80	78
Teamwork 40DF + Atrazine 4L + Sterling 4SL + Preference + Dry AMS	0.32 oz + 0.42 qt + 4.0 oz + 0.25 % + 2.0 lb	EPOST	38	98	96	80	92	33	98	92	73	92	27	98	92	70	92
Degree 3.8 CS + (Permit 75WG + NIS)	4.6 pt + (0.67 oz + 0.25 %)	PRE + (POST)	99	60	99	99	85	95	58	99	99	67	95	57	99	99	60
Degree 3.8 CS + (Permit 75WG + Clarity 4SL + NIS)	4.6 pt + 0.67 oz + 0.25 pt + 0.25 %)	PRE + (POST)	98	98	99	99	90	92	99	99	99	91	90	99	99	99	93
LSD (0.05)			4	5	3	5	6	5	5	6	8	9	6	5	7	9	9

^a NIS = Activator 90, a non-ionic surfactant penetrant from Loveland Industries; Newtone = a basic blend adjuvant premix from

Agriliance; COC = Herbimax, and oil-surfactant adjuvant from Loveland Industries; 28%N = mixture of urea and ammonium nitrate.

^b Percent weed control: Gift = giant foxtail, Colq = common lambsquarters, Cowh = common waterhemp,

Pesw = Pennsylvania smartweed, Vele = velvetleaf.