

**Table 1. Evaluation of pre-emergence and post-emergence applied herbicides for weed control in glufosinate-resistant corn.**

Treatment <sup>b</sup>	Rate Product/A	Appl time	Corn <sup>a</sup> stand	Corn injury			Gift	Colq	Cowh	Pesw	Vele
				6/19	6/27	7/19	6/19	6/19	6/19	6/19	6/19
				----- (%) -----			----- (% weed control <sup>c</sup> ) -----				
Control	-	-	28	0	0	0	0	0	0	0	0
Balance Pro 4SC + (Liberty 1.67SL + Atrazine 90DF + AMS)	2.24 oz + (28.0 oz + 1.0 lb + 3.0 lb)	PRE + (POST)	29	0	0	0	96	99	96	67	99
Balance Pro 4SC + Define 60DF + Atrazine 90DF	3.0 oz + 0.5 lb + 1.5 lb	PRE	31	0	0	0	99	99	99	99	99
Outlook 6EC + (Marksman 3.2SC + AMS)	21.0 oz + (3.5 pt + 2.5 lb)	PRE + (EPOST)	29	3	3	0	99	99	99	99	99
Guardman Max 5SE + (Distinct 70WG + NIS + AMS)	2.0 qt + (4.0 oz + 0.25 % + 5.0 lb)	PRE + (POST)	29	0	0	0	99	99	99	99	99
Axiom 68DF + (Marksman 3.2SC + AMS)	21.0 oz + (2.5 pt + 2.5 lb)	PRE + (EPOST)	29	3	2	0	99	99	99	98	99
Epic 58DF + (Liberty 1.67SL + AMS)	6.9 oz + (20.0 oz + 3.0 lb)	PRE + (POST)	29	0	0	0	98	99	99	72	99
Epic 58DF + (Basis Gold 89.5DF + COC + 28%N)	6.9 oz + (14.0 oz + 1.0 % + 2.0 qt)	PRE + (POST)	31	0	0	0	98	99	99	63	98
Define 60DF + Atrazine 90DF + COC	21.0 oz + 1.0 lb + 1.0 qt	EPOST	29	0	0	0	98	99	99	88	99
FulTime 4SC + Hornet WDG 68.5WG	3.0 qt + 3.0 oz	PRE	30	0	0	0	99	99	99	98	99
FulTime 4SC + (Hornet WDG 68.5WG + Atrazine 90DF + 28%N + NIS)	3.0 qt + (3.0 oz + 1.0 lb + 2.5 % + 0.25 %)	PRE + (POST)	28	2	2	0	99	99	99	95	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)	29	0	0	0	95	98	95	73	98
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)	29	7	0	2	99	99	99	99	99
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)	29	5	0	0	99	99	99	93	99
Degree Xtra 4.04CS + Balance Pro 4SC	3.7 qt + 2.0 oz	PRE	29	0	0	0	99	99	99	98	99
Degree 3.8 CS + (Permit 75WG + Clarity 4SL + NIS)	2.5 qt + (0.66 oz + 0.25 pt + 0.25 %)	PRE + (POST)	29	0	2	0	99	73	99	52	72
Bicep II Lite Magnum 6SC + (Callisto 4SC + COC + 28%N)	2.2 qt + (3.0 oz + 1.0 % + 2.5 %)	PRE + (POST)	28	0	0	0	99	99	99	99	99
Dual II Magnum 7.64EC + (Northstar 47.4WG + COC + 28%N)	2.0 pt + (5.0 oz + 1.0 % + 2.5 %)	PRE + (POST)	28	0	0	0	99	87	99	65	70
<b>LSD (0.05)</b>			<b>2</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>11</b>	<b>3</b>	<b>17</b>	<b>2</b>

<sup>a</sup> Corn stand per 17.5 row feet on August 21.<sup>b</sup> NIS = Activator 90, a non-ionic surfactant penetrant and COC = Herbimax, an oil-surfactant adjuvant, both from Loveland Industries; 28% N = mixture of urea and ammonium nitrate.<sup>c</sup> Percent weed control: Gift = giant foxtail, Colq = common lambsquarters, Cowh = common waterhemp, Pesw = Pennsylvania smartweed, Vele = velvetleaf.

**Table 2. Evaluation of pre-emergence and post-emergence applied herbicides for weed control in glufosinate-resistant corn.**

Treatment <sup>a</sup>	Rate Product/A	Appl time	Gift	Colq	Cowh	Pesw	Vele	Gift	Colq	Cowh	Pesw	Vele
			7/19	7/19	7/19	7/19	7/19	8/21	8/21	8/21	8/21	8/21
Control	-	-	0	0	0	0	0	0	0	0	0	0
Balance Pro 4SC + (Liberty 1.67SL + Atrazine 90DF + AMS)	2.24 oz + (28.0 oz + 1.0 lb + 3.0 lb)	PRE + (POST)	98	99	99	99	99	98	99	99	99	99
Balance Pro 4SC + Define 60DF + Atrazine 90DF	3.0 oz + 0.5 lb + 1.5 lb	PRE	98	99	99	99	99	98	99	99	99	99
Outlook 6EC + (Marksman 3.2SC + AMS)	21.0 oz + (3.5 pt + 2.5 lb)	PRE + (EPOST)	99	99	99	99	99	99	99	98	99	99
Guardman Max 5SE + (Distinct 70WG + NIS + AMS)	2.0 qt + (4.0 oz + 0.25 % + 5.0 lb)	PRE + (POST)	99	99	99	99	99	98	99	99	99	99
Axiom 68DF + (Marksman 3.2SC + AMS)	21.0 oz + (2.5 pt + 2.5 lb)	PRE + (EPOST)	99	99	99	99	99	99	99	99	99	99
Epic 58DF + (Liberty 1.67SL + AMS)	6.9 oz + (20.0 oz + 3.0 lb)	PRE + (POST)	99	99	99	99	99	98	99	99	99	99
Epic 58DF + (Basis Gold 89.5DF + COC + 28%N)	6.9 oz + (14.0 oz + 1.0 % + 2.0 qt)	PRE + (POST)	98	99	99	98	99	96	99	99	96	99
Define 60DF + Atrazine 90DF + COC	21.0 oz + 1.0 lb + 1.0 qt	EPOST	96	99	96	88	99	93	96	92	85	99
FulTime 4SC + Hornet WDG 68.5WG	3.0 qt + 3.0 oz	PRE	99	99	99	99	99	99	99	99	98	99
FulTime 4SC + (Hornet WDG 68.5WG + Atrazine 90DF + 28%N + NIS)	3.0 qt + (3.0 oz + 1.0 lb + 2.5 % + 0.25 %)	PRE + (POST)	99	99	99	99	99	99	99	99	99	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)	99	99	99	99	99	99	99	99	99	99
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)	99	99	99	96	96	99	98	99	90	96
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)	99	99	99	96	95	98	99	99	96	95
Degree Xtra 4.04CS + Balance Pro 4SC	3.7 qt + 2.0 oz	PRE	99	99	99	98	99	99	99	99	98	99
Degree 3.8 CS + (Permit 75WG + Clarity 4SL + NIS)	2.5 qt + (0.66 oz + 0.25 pt + 0.25 %)	PRE + (POST)	99	99	99	98	99	99	99	99	98	99
Bicep II Lite Magnum 6SC + (Callisto 4SC + COC + 28%N)	2.2 qt + (3.0 oz + 1.0 % + 2.5 %)	PRE + (POST)	99	99	99	99	99	99	99	99	99	99
Dual II Magnum 7.64EC + (Northstar 47.4WG + COC + 28%N)	2.0 pt + (5.0 oz + 1.0 % + 2.5 %)	PRE + (POST)	99	99	99	99	99	99	99	99	99	99
<b>LSD (0.05)</b>			<b>2</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>2</b>

<sup>a</sup> NIS = Activator 90, a non-ionic surfactant penetrant and COC = Herbimax, an oil-surfactant adjuvant, both from Loveland

Industries; 28% N = mixture of urea and ammonium nitrate.

<sup>b</sup> Percent weed control: Gift = giant foxtail, Colq = common lambsquarters, Cowh = common waterhemp,

Pesw = Pennsylvania smartweed, Vele = velvetleaf.