

Table 1. Balance Pro, Atrazine, and Define applied preemergently and Liberty, Atrazine, Option, Distinct, and Buctril plus Atrazine applied postemergently for woolly cupgrass control in corn.

Treatment	Rate	Appl time	Corn ^a stand	Corn injury 6/5/02 --- (%) ---	Erbvi 6/5/02 -- (% weed control ^b) --	Abuth 6/5/02	Amata 6/5/02
	Product/acre						
Untreated			27	0	0	0	0
Balance Pro 4SC + Atrazine 90DF + (Liberty 1.67SL + Atrazine 90DF + AMS ^c)	1.5 oz + 0.556 lb + (28.0 oz + 0.556 lb + 3.0 lb)	PRE + (MPOST)	27	2	90	99	99
Balance Pro 4SC + Atrazine 90DF + (Option 35WDG + 28%UAN ^d + MSO ^e)	1.5 oz + 0.556 lb + (1.5 oz + 2.0 qt + 1.5 pt)	PRE + (MPOST)	25	5	87	99	98
Balance Pro 4SC + Define 60DF	3.0 oz + 12.0 oz	PRE	28	3	92	99	99
Balance Pro 4SC + Atrazine 90DF	3.0 oz + 1.67 lb	PRE	27	10	90	99	99
Balance Pro 4SC + Define 60DF + Atrazine 90DF	2.25 oz + 13.0 oz + 1.67 lb	PRE	26	0	90	98	99
Define 60DF + (Liberty 1.67SL + Atrazine 90DF + AMS)	10.0 oz + (28.0 oz + 1.11 lb + 3.0 lb)	PRE + (MPOST)	26	0	50	53	88
Define 60DF + (Option 35WDG + Distinct 70WG + MSO + 28%UAN)	10.0 oz + (1.5 oz + 3.0 oz + 1.5 pt + 2.0 qt)	PRE + (MPOST)	28	0	57	47	83
Liberty 1.67SL + Atrazine 90DF + AMS	28.0 oz + 1.67 lb + 3.0 lb	EPOST	27	0	0	0	0
Define 60DF + (Buctril + Atrazine)	18.0 oz + (2.0 pt)	PRE + (MPOST)	28	0	80	47	85
Balance Pro 4SC + (Buctril + Atrazine)	2.25 oz + (2.0 pt)	PRE + (MPOST)	26	7	88	99	99
Option 35WDG + Distinct 70WG + MSO + 28%UAN	1.5 oz + 3.0 oz + 1.5 pt + 2.0 qt	MPOST	24	0	0	0	0
LSD (P=0.05)			3	6	18	9	12

^aCorn stand per 17.5 row feet on July 2.

^b% weed control = Erbvi = woolly cupgrass, Abuth = velvetleaf, Amata = common waterhemp.

^cAMS = ammonium sulfate fertilizer from Agrilience, LLC.

^d28%UAN = mixture of urea and ammonium sulfate from United Suppliers.

^eMSO = methylated seed oil plus surfactant from UAP-Loveland Industries.

and Buctril plus Atrazine applied postemergently for woolly cupgrass control in corn.

Treatment	Rate	Appl time	Corn injury 8/1/02 --- (%) ---	Erbvi 8/1/02 ----- (% weed control ^a) -----	Abuth 8/1/02	Amata 8/1/02	Cheal 8/1/02
	Product/Acre						
Untreated			0	0	0	0	0
Balance Pro 4SC + Atrazine 90DF + (Liberty 1.67SL + Atrazine 90DF + AMS ^c)	1.5 oz + 0.556 lb + (28.0 oz + 0.556 lb + 3.0 lb)	PRE + (MPOST)	0	98	99	99	99
Balance Pro 4SC + Atrazine 90DF + (Option 35WDG + 28%UAN ^d + MSO ^e)	1.5 oz + 0.556 lb + (1.5 oz + 2.0 qt + 1.5 pt)	PRE + (MPOST)	0	85	99	82	99
Balance Pro 4SC + Define 60DF	3.0 oz + 12.0 oz	PRE	0	90	99	93	99
Balance Pro 4SC + Atrazine 90DF	3.0 oz + 1.67 lb	PRE	0	80	99	98	99
Balance Pro 4SC + Define 60DF + Atrazine 90DF	2.25 oz + 13.0 oz + 1.67 lb	PRE	0	75	99	96	99
Define 60DF + (Liberty 1.67SL + Atrazine 90DF + AMS)	10.0 oz + (28.0 oz + 1.11 lb + 3.0 lb)	PRE + (MPOST)	2	95	99	95	99
Define 60DF + (Option 35WDG + Distinct 70WG + MSO + 28%UAN)	10.0 oz + (1.5 oz + 3.0 oz + 1.5 pt + 2.0 qt)	PRE + (MPOST)	3	65	95	90	95
Liberty 1.67SL + Atrazine 90DF + AMS	28.0 oz + 1.67 lb + 3.0 lb	EPOST	0	87	98	82	99
Define 60DF + (Buctril + Atrazine)	18.0 oz + (2.0 pt)	PRE + (MPOST)	0	63	85	70	99
Balance Pro 4SC + (Buctril + Atrazine)	2.25 oz + (2.0 pt)	PRE + (MPOST)	0	85	99	95	99
Option 35WDG + Distinct 70WG + MSO + 28%UAN	1.5 oz + 3.0 oz + 1.5 pt + 2.0 qt	MPOST	5	48	93	87	95
LSD (P=0.05)			2	16	7	7	0

^a% weed control = Erbvi = woolly cupgrass, Abuth = velvetleaf, Amata = common waterhemp, Cheal = common lambsquarters.

^bAMS = ammonium sulfate fertilizer from Agrilience, LLC.

^c28%UAN = mixture of urea and ammonium sulfate from United Suppliers.

^dMSO = methylated seed oil plus surfactant from UAP-Loveland Industries.

Table 3. Balance Pro, Atrazine, and Define applied preemergently and Liberty, Atrazine, Option, Distinct, and Buctril plus Atrazine applied postemergently for woolly cupgrass control in corn.

Treatment	Rate	Appl time	Corn injury 7/16/02	Erbvi 7/16/02	Abuth 7/16/02	Amata 7/16/02	Cheal 7/16/02
	Product/acre		--- (%) ---	----- (% weed control ^a) -----			
Untreated			0	0	0	0	0
Balance Pro 4SC + Atrazine 90DF + (Liberty 1.67SL + Atrazine 90DF + AMS ^c)	1.5 oz + 0.556 lb + (28.0 oz + 0.556 lb + 3.0 lb)	PRE + (MPOST)	0	99	99	99	99
Balance Pro 4SC + Atrazine 90DF + (Option 35WDG + 28%UAN ^d + MSO ^e)	1.5 oz + 0.556 lb + (1.5 oz + 2.0 qt + 1.5 pt)	PRE + (MPOST)	7	87	99	82	99
Balance Pro 4SC + Define 60DF	3.0 oz + 12.0 oz	PRE	0	91	99	95	99
Balance Pro 4SC + Atrazine 90DF	3.0 oz + 1.67 lb	PRE	0	82	99	99	99
Balance Pro 4SC + Define 60DF + Atrazine 90DF	2.25 oz + 13.0 oz + 1.67 lb	PRE	0	80	99	96	99
Define 60DF + (Liberty 1.67SL + Atrazine 90DF + AMS)	10.0 oz + (28.0 oz + 1.11 lb + 3.0 lb)	PRE + (MPOST)	8	98	99	96	99
Define 60DF + (Option 35WDG + Distinct 70WG + MSO + 28%UAN)	10.0 oz + (1.5 oz + 3.0 oz + 1.5 pt + 2.0 qt)	PRE + (MPOST)	8	73	95	92	95
Liberty 1.67SL + Atrazine 90DF + AMS	28.0 oz + 1.67 lb + 3.0 lb	EPOST	7	92	98	83	99
Define 60DF + (Buctril + Atrazine)	18.0 oz + (2.0 pt)	PRE + (MPOST)	0	68	88	70	99
Balance Pro 4SC + (Buctril + Atrazine)	2.25 oz + (2.0 pt)	PRE + (MPOST)	0	85	99	96	99
Option 35WDG + Distinct 70WG + MSO + 28%UAN	1.5 oz + 3.0 oz + 1.5 pt + 2.0 qt	MPOST	10	63	93	87	95
LSD (P=0.05)			7	13	4	9	0

^a% weed control = Erbvi = woolly cupgrass, Abuth = velvetleaf, Amata = common waterhemp, Cheal = common lambsquarters.

^bAMS = ammonium sulfate fertilizer from Agrilience, LLC.

^c28%UAN = mixture of urea and ammonium sulfate from United Suppliers.

^dMSO = methylated seed oil plus surfactant from UAP-Loveland Industries.

Table 2. Balance Pro, Atrazine, and Define applied preemergently and Liberty, Atrazine, Option, Distinct, and Buctril plus Atrazine applied postemergently for woolly cupgrass control in corn.

Treatment	Rate	Appl time	Corn injury 6/25/02	Erbvi 6/25/02	Abuth 6/25/02	Amata 6/25/02	Cheal 6/25/02
	Product/acre		--- (%) ---	----- (% weed control ^a) -----			
Untreated			0	0	0	0	0
Balance Pro 4SC + Atrazine 90DF + (Liberty 1.67SL + Atrazine 90DF + AMS ^b)	1.5 oz + 0.556 lb + (28.0 oz + 0.556 lb + 3.0 lb)	PRE + (MPOST)	0	99	99	99	99
Balance Pro 4SC + Atrazine 90DF + (Option 35WDG + 28%UAN ^c + MSO ^d)	1.5 oz + 0.556 lb + (1.5 oz + 2.0 qt + 1.5 pt)	PRE + (MPOST)	17	90	99	93	99
Balance Pro 4SC + Define 60DF	3.0 oz + 12.0 oz	PRE	0	93	99	95	99
Balance Pro 4SC + Atrazine 90DF	3.0 oz + 1.67 lb	PRE	0	88	99	99	99
Balance Pro 4SC + Define 60DF + Atrazine 90DF	2.25 oz + 13.0 oz + 1.67 lb	PRE	0	83	99	99	99
Define 60DF + (Liberty 1.67SL + Atrazine 90DF + AMS)	10.0 oz + (28.0 oz + 1.11 lb + 3.0 lb)	PRE + (MPOST)	8	96	99	95	99
Define 60DF + (Option 35WDG + Distinct 70WG + MSO + 28%UAN)	10.0 oz + (1.5 oz + 3.0 oz + 1.5 pt + 2.0 qt)	PRE + (MPOST)	8	75	88	88	90
Liberty 1.67SL + Atrazine 90DF + AMS	28.0 oz + 1.67 lb + 3.0 lb	EPOST	7	99	99	92	99
Define 60DF + (Buctril + Atrazine)	18.0 oz + (2.0 pt)	PRE + (MPOST)	2	72	88	82	99
Balance Pro 4SC + (Buctril + Atrazine)	2.25 oz + (2.0 pt)	PRE + (MPOST)	0	92	99	96	99
Option 35WDG + Distinct 70WG + MSO + 28%UAN	1.5 oz + 3.0 oz + 1.5 pt + 2.0 qt	MPOST	10	65	88	87	88
LSD (P=0.05)			7	15	2	5	3

^a% weed control = Erbvi = woolly cupgrass, Abuth = velvetleaf, Amata = common waterhemp, Cheal = common lambsquarters.

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