

Common Mullein Control with Various Herbicide Treatments near Bayard, Nebraska during the 2009 Growing Season.

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A field study was initiated near Bayard, Nebraska to compare various herbicides for control of common mullein. The experimental design was a randomized complete block with three replications. Plots were 11 feet wide by 10 feet long. Herbicides were applied on June 26 with a backpack sprayer calibrated to deliver 20 gallons of spray solution per acre at 32-psi pressure using Spraying Systems 11002 VS nozzles. At the time of treatment common mullein was bolting, air temperature was 82 F, humidity was 54%, and wind was out of the SE at 2 mph.

All herbicides except Forefront provided excellent common mullein control. Many of the riparian areas infested with common mullein also contain Canada, musk, and Scotch thistles. Chaparral which contains aminopyralid plus metsulfuron would be an excellent choice for control of common mullein and thistles.

Table 1. Common Mullein Control with Various Herbicide Treatments near Bayard, Nebraska during the 2009 Growing Season.

Treatment ¹	Rate	Common mullein control	
		7/21/09	9/11/09
	(lb/acre)	----- (%) -----	
Nontreated	--	0	0
Chaparral + X77 .25%	0.077	99	99
Chaparral + X77 .25%	0.116	99	99
Chaparral + MSO 1 qt/A	0.077	97	99
Chaparral + MSO 1 qt/A	0.116	99	99
Chaparral + SYL-TAC .25%	0.077	96	99
Chaparral + SYL-TAC .25%	0.116	99	99
Chaparral + AMS 8.5 lb/A + X77 0.25%	0.077	99	99
Chaparral + AMS 8.5 lb/A + X77 0.25%	0.116	98	99
Chaparral + 2,4-D amine + X77	0.077 + 0.475	98	99
Forefront R+P + X77	0.747	50	62
Cimarron + Weedmaster + X77	0.009 + 0.487	99	99
Cimarron Plus + X77	0.019	99	99
Chaparral + COC 1 qt/A	0.077	98	99
DPX-MAT28 + Escort XP + MSO	0.058 + 0.018	99	99
LSD at (0.05)	--	4	1

¹Herbicide treatments applied June 26, 2009 to common mullein in the bolting growth stage.