

Buckbrush Control in Rangeland with Chaparral near Rushville, Nebraska during the 2009 Growing Season.

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A field study was conducted north of Rushville, Nebraska to compare the performance of Chaparral (aminophyralid plus metsulfuron) applied in late spring or early summer for buckbrush control. The experimental design was a randomized complete block with four replications. Plot size was 11 feet wide by 25 feet long. Herbicides were applied in late spring (May 22, 2009) and in early summer (June 18, 2009) when buckbrush was fully leafed out and actively growing. Herbicides were applied with a backpack sprayer calibrated to deliver 20 gallons of spray solution per acre at 36-psi pressure using Spraying Systems 11002 VS nozzles. Environmental conditions at the time of herbicide application are given in Table 1.

Buckbrush density was uniform across the plot area. Evaluations taken on August 19, 2009 indicated that all treatments provided excellent control of buckbrush (Table 2). Plots will be evaluated in 2010 to assess buckbrush control and forage production.

Table 1. Environmental Conditions at the Time of Herbicide Application.

Date	Air temperature	Humidity	Wind speed & direction	Time of day	Buckbrush height
	(F)	(%)	(mph)		(inches)
May 22	70	50	3 SE	1:00 PM	25
June 18	75	45	3 W	11:00 AM	26

Table 2. Buckbrush Control in Rangeland with Chaparral Near Rushville, Nebraska During the 2009 Growing Season.

Treatment	Rate	Time of application	Visual evaluations of buckbrush control 8/19/09
	(lb/acre)		(%)
Nontreated			
Chaparral + X77	0.077	5/22	98
Chaparral + X77	0.096	5/22	97
Chaparral + X77	0.116	5/22	98
Chaparral + 2,4-D ester + X77	0.077 + 1.0	5/22	99
Chaparral + 2,4-D ester + X77	0.077 + 0.5	5/22	99
2,4-D ester + X77	2.0	5/22	99
Cimarron Plus + X77	0.019	5/22	99
DPX-MAT 28 + Escort XP + MSO	0.058 + 0.018	5/22	99
Cimarron Plus + Weedmaster +X77	0.009 + 0.487	5/22	99
Chaparral + X77	0.077	6/18	97
Chaparral + X77	0.096	6/18	99
Chaparral + X77	0.116	6/18	99
Chaparral + 2,4-D ester + X77	0.077 + 1.0	6/18	99
Chaparral + 2,4-D ester + X77	0.077 + 0.5	6/18	99
2,4-D ester + X77	2.0	6/18	99
Cimarron Plus + X77	0.019	6/18	99
DPX-MAT 28 + Escort XP + MSO	0.058 + 0.018	6/18	99
Cimarron Plus + Weedmaster +X77	0.009 + 0.487	6/18	99
LSD at 0.05	--	--	5