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Control of leafy spurge with fluroxypyr

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Two experiments were established in 1985 to compare times of application and sequential treatments following fluroxypyr (Ef689). Applications of fluroxypyr at 0.5 lb ai/A were applied in two studies. The first area received fluroxypyr on July 24, 1985. One year following initial applications of fluroxypyr areas within both studies were retreated with fluroxypyr, dicamba, 2,4-D(LVE) and picloram at 0.5, 2.0, 2.0 and 0.5 lb ai/A, respectively. Dates of each of the series of retreatments in both studies were June 2, 1986 and July 28, 1986. Each of the treatments was compared to an untreated check and an area treated with only an initial fluroxypyr application at 0.5 lb ai/A.

Treatments were applied with hand-held sprayers applying 40 gallons per acre of herbicide solution.

Evaluations were taken, two years following treatments, on May 18, 1987. No differences were found between the initial treatments of fluroxypyr applied in July and August, 1987 (Tables 1, 2, 3 and 4). Both of the initial treatment times provided similar control when followed by retreatments applied the same day. All retreatments applied on July 28, 1986 controlled considerably higher percentages of leafy spurge than the same treatments applied on June 2, 1986 (Tables 1, 2, 3 and 4).

Fluroxypyr set-up treatments followed by retreatments provided more effective control of leafy spurge than would be expected from any retreatment used alone. More research should be done to further determine the time and application rates to be applied.

Table 1. Hallam Ranch - Lander, Wyoming.

Herbicide	lbs ai/A	Date of application	Percent control
1. fluroxypyr	0.5	7/24/85	48
+ fluroxypyr	0.5	6/2/86	
2. fluroxypyr	0.5	7/24/85	46
+ dicamba	2.0	6/2/86	
3. fluroxypyr	0.5	7/24/85	29
+ 2,4-D (LVE)	2.0	6/2/86	
4. fluroxypyr	0.5	7/24/86	69
+ picloram	0.5	6/2/86	
5. fluroxypyr	0.5	7/24/86	11
6. check	—	—	0

Table 2. Hallam Ranch - Lander, Wyoming.

Herbicide	lbs ai/A	Date of application	Percent control
1. fluroxypyr	0.5	7/24/85	65
+ fluroxypyr	0.5	7/28/86	
2. fluroxypyr	0.5	7/24/85	87
+ dicamba	2.0	7/28/86	
3. fluroxypyr	0.5	7/24/85	59
+ 2,4-D (LVE)	2.0	7/28/86	
4. fluroxypyr	0.5	7/24/85	97
+ picloram	0.5	7/28/86	
5. fluroxypyr	0.5	7/24/85	11
6. check	—	—	0

Table 3. Hallam Ranch - Lander, Wyoming.

Herbicide	lbs ai/A	Date of application	Percent control
1. fluroxypyr	0.5	8/26/85	34
+ fluroxypyr	0.5	6/2/86	
2. fluroxypyr	0.5	8/26/85	35
+ dicamba	2.0	6/2/86	
3. fluroxypyr	0.5	8/26/85	36
+ 2,4-D (LVE)	2.0	6/2/86	
4. fluroxypyr	0.5	8/26/85	50
+ picloram	0.5	6/2/86	
5. fluroxypyr	0.5	8/26/85	5
6. check	—	—	0

Table 4. Hallam Ranch - Lander, Wyoming.

Herbicide	lbs ai/A	Date of application	Percent control
1. fluroxypyr	0.5	8/26/85	73
+ fluroxypyr	0.5	7/28/86	
2. fluroxypyr	0.5	8/26/85	86
+ dicamba	2.0	7/28/86	
3. fluroxypyr	0.5	8/26/85	63
+ 2,4-D (LVE)	2.0	7/28/86	
4. fluroxypyr	0.5	8/26/85	97
+ picloram	0.5	7/28/86	
5. fluroxypyr	0.5	8/26/85	5
6. check	—	—	0