

**NA06B2A001 Spotlight herbicide demonstration in university COI trials**  
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**Background/Objective:** How does fluroxypyr compare with competitive products in cool season turf in university field trials?

**Site Information**

<b>Location:</b>	William H. Daniel Research and Diagnostic Center
<b>Soil Type:</b>	Starks-Fincastle silt loam
<b>Soil pH:</b>	7.2
<b>Turfgrass Species:</b>	Kentucky bluegrass blend
<b>Turf Condition:</b>	poor
<b>Turf Management: Mowing Height cm (in):</b>	6.4 (2.5)
<b>Fertilization:</b>	1 lb N/M/YR
<b>Irrigation:</b>	To prevent moisture stress
<b>Testing on Site Previous Year:</b>	none
<b>Target Pest:</b>	Dandelion ( <i>Taraxacum officinale</i> ) White clover ( <i>Trifolium repens</i> )
<b>Growth Stage:</b>	mature

**Application Information**

<b>Application Date:</b>	24 May
<b>Application Time:</b>	10:15 a.m.
<b>Air Temperature C<sup>0</sup>(F<sup>0</sup>):</b>	21.6 (71)
<b>Relative Humidity(%):</b>	49
<b>Wind Speed m s<sup>-1</sup> (mph):</b>	1.3 (3)
<b>Soil Temperature(7.6 cm depth) C<sup>0</sup>(F<sup>0</sup>):</b>	13.3 (56)
<b>Soil Moisture:</b>	moist
<b>Spray Volume L ha<sup>-1</sup> (gal 1000 ft<sup>-2</sup>):</b>	814 (2)
<b>Spray Pressure:</b>	30psi
<b>Spray Nozzle:</b>	8001.5
<b>Spray Equipment:</b>	CO <sub>2</sub> backpack
<b>Irrigation After Application:</b>	None
<b>Experimental Design:</b>	Randomized complete block
<b>Replications:</b>	3
<b>Plot Size m (ft):</b>	1.5 X 1.5 (5 X 5)

**Results:**

- All herbicides provided excellent control of dandelion and clover in this study (Tables 1 and 2).
- There was no differences in control among the treatments.

**Table 1.** Percent dandelion cover<sup>a</sup> after treatment with Spotlight and other herbicides.

Treatment	Rate of application	7 June	22 June	21 July
	pt/A	% cover		
Spotlight	1	3.3	3.3	2.7
+ 2,4-D amine	2			
Spotlight	2	1.7	1.0	2.0
+ 2,4-D amine	1			
Spotlight	2	1.3	1.0	2.7
Escalade 2	3	2.7	0.3	1.3
Confront	2	3.7	1.7	1.7
Check		13.3	21.7	8.3
LSD (0.05)		4.8	5.6	2.9

<sup>a</sup> Percent of the plot area covered by dandelion.

**Table 2.** Percent<sup>a</sup> clover after treatment with Spotlight and other herbicides.

Treatment	Rate of application	7 June	22 June	21 July
	pt/A	% cover		
Spotlight	1	0.0	0.0	0.0
+ 2,4-D amine	2			
Spotlight	2	0.3	0.0	0.0
+ 2,4-D amine	1			
Spotlight	2	0.3	0.0	0.0
Escalade 2	3	0.3	0.0	0.0
Confront	2	0.3	0.0	0.0
Check		8.7	15.0	13.3
LSD (0.05)		NS	NS	NS

<sup>a</sup> Percent of the plot area covered by clover.