

Fall-applied Herbicides for Dandelion Control, Carrington

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A field study was conducted at the NDSU Carrington Research Extension Center to examine dandelion control with fall-applied herbicides in idle cropland. Experimental design was a randomized complete block with four replications. Herbicides were applied with a CO₂-pressurized plot sprayer delivering 17 gal/A at 35 psi through 8001 flat-fan nozzles to the center 5 ft of 8- by 20-ft plots on September 22, 2011 at 53° F, 57 percent RH and 4 mph wind to rosette-stage dandelion.

Dandelion control initially was 85 to 94 percent with tank mixtures of glyphosate with 2,4-D and Valor, and glyphosate with Sharpen one month after treatment (MAT) (Table). In May, 2012 (8 MAT), Express provided 89 percent control of dandelion, with other herbicide treatments providing 68 to 80 percent control. In July (10 MAT), dandelion control was good (82%) with Express, while control with other herbicide treatments was poor (>60%).

Table 1. Fall-applied herbicides for dandelion control.

Herbicide		Dandelion Control			
Treatment ¹	Rate	17-Oct-11	10-May-12	18-Jun-12	19-Jul-12
%					
RU PM	22 fl oz/A				
Class Act NG	2.5% v/v	63	70	20	0
2,4-D	16 fl oz/A	69	69	65	50
Express DF	0.33 oz/A				
Class Act NG	2.5% v/v	33	89	86	82
RU PM	22 fl oz/A				
2,4-D	16 fl oz/A				
Class Act NG	2.5% v/v	73	68	28	24
RU PM	22 fl oz/A				
2,4-D	16 fl oz/A				
Express DF	0.33 oz/A				
Class Act NG	2.5% v/v	75	80	65	58
RU PM	22 fl oz/A				
2,4-D	16 fl oz/A				
Valor	2 oz/A				
Class Act NG	2.5% v/v	85	74	28	10
RU PM	22 fl oz/A				
2,4-D	16 fl oz/A				
Valor	3 oz/A				
Class Act NG	2.5% v/v	88	77	55	43
RU PM	22 fl oz/A				
Sharpen	2 fl oz/A				
Destiny HC	12 fl oz/A				
Class Act NG	2.5% v/v	94	75	33	30
C.V. (%)		5.5	4.0	39.5	55.9
LSD (0.05)		6	4	27	30

¹RU PM = Roundup PowerMax; Class Act NG = surfactant&AMS, and Destiny HC = high surfactant oil concentrate (Winfield Solutions); 2,4-D = LV4.



Fall-applied herbicides for dandelion control trial, May, 2012.