

Preplant dandelion control with Glyphosate + Group 14 herbicides

The objective of the study was to evaluate preplant dandelion control with glyphosate alone compared to glyphosate tank mixed with Group 14 herbicides (Aim, Sharpen, Spartan, and Valor). All treatments were applied 5 days prior to planting. All treatments were applied May 7 and wheat planted on May 12. All treatments were applied with AMS and MSO.

Glyphosate applied alone or tank mixed with Express or 2,4-D provided approximately 87-90% dandelion control (based on June 15 evaluation). Glyphosate applied with Group 14 herbicides (Aim, Sharpen, Spartan, or Valor) provided only 50-70% dandelion control (based on June 15 evaluation). Thus, if dandelion is the primary weed to be controlled, it would be better to apply glyphosate by itself or with Express or 2,4-D. Glyphosate should be applied separate from Aim, Sharpen, Spartan, and Valor when targeting dandelion or other perennial weeds.

Treatment	Rate	Timing	Weed Control		
			Dandelion		
			May-12	May-24	Jun-15
			-----%-----		
Untreated			0	0	0
Glyphosate ^a	22 oz	5 DPP	10	90	89
Aim + Glyphosate ^{ab}	1 oz + 22 oz	5 DPP	52	75	65
Sharpen + Glyphosate ^{ab}	1 oz + 22 oz	5 DPP	68	75	63
Sharpen + Glyphosate ^{ab}	2 oz + 22 oz	5 DPP	73	77	70
Spartan + Glyphosate ^{ab}	4 oz + 22 oz	5 DPP	30	57	55
Spartan Charge + Glyphosate ^{ab}	5 oz + 22 oz	5 DPP	58	77	66
Valor + Glyphosate ^{ab}	2 oz + 22 oz	5 DPP	45	65	50
Express + Glyphosate ^{ac}	0.25 oz + 22 oz	5 DPP	13	91	90
Glyphosate + 2,4-D ester ^a	22 oz + 0.5 pt	5 DPP	27	87	87
LSD (0.05)			6.9	8.9	12.7
^a Applied with AMS (2.5 gal/100 gal)					
^b Applied with MSO (1%)					
^c Applied with NIS (0.25%)					