

## **Supremacy<sup>®</sup> tank mixes for broadleaf weed control in spring wheat**

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A field study was conducted on the WSU Cook Agronomy Farm near Pullman, WA to evaluate broadleaf weed control with Supremacy herbicide and various tank mix partners. Supremacy herbicide contains fluroxypyr (Group 4), thifensulfuron (Group 2) and tribenuron (Group 2).

The soil at the site is a Thatuna silt loam with 5.7% organic matter and a pH of 4.8. On April 15, 'Diva' spring wheat was planted using a Horsch air drill with 12-inch row spacing. Seeding rate was 90 lbs/acre and seeding depth was 1.5 inches. Starter fertilizer was applied at planting at a rate of 100, 10 and 15 lb/acre of N:P:K. On May 20, post-emergence herbicide applications were made to wheat that was in the 2-leaf stage and was 6 to 8 inches tall. The CO<sub>2</sub> backpack sprayer was set to deliver 15 gpa at 32 psi and 3 mph. The air temperature was 73°F, relative humidity was 35% and the wind was out of the west at 3 mph. Common lambsquarters was 1 to 2 inches in diameter, mayweed chamomile was 1 inch in diameter, and prickly lettuce with 2 to 3 inches in diameter. Plots were harvested on August 22 using a Kincaid 8XP plot combine.

No significant differences in crop injury were observed in this study (data not shown). With the exception of Supremacy applied alone, all herbicide treatments provided excellent control of all three of the primary weeds in this study. Supremacy applied alone at either 5.0 or 5.9 oz of product per acre provided little or no control of prickly lettuce, good control of mayweed chamomile, and excellent control of common lambsquarters. Grain yield was greatest with Supremacy + Rhonox<sup>®</sup> MCPA ester and Huskie<sup>™</sup>, although the yields were only significantly greater than the nontreated check and Supremacy applied at 5.9 ounce of product per acre.

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Treatment <sup>a</sup>	Rate oz pr/a	-----June 12-----			August 22
		Prickly lettuce control	Mayweed chamomile control	Common lambsquarters control	Yield bu/a
Supremacy	5	13	86	100	68
NIS	0.25% v/v				
Supremacy	5.9	11	84	99	50
NIS	0.25% v/v				
Huskie	13	100	99	99	74
Supremacy	5	100	99	99	64
Huskie	11				
Bronate Advanced <sup>™</sup>	12.8	99	95	100	62
Supremacy	5	100	100	99	65
Bronate Advanced	12.8				
Supremacy	5	95	94	99	75
MCPA Ester	12				
Bronate Advanced	12.8	100	100	99	61
Audit <sup>®</sup> 1:1	0.4				
Bronate Advanced	12.8	100	100	100	62
Audit 4:1	0.6				
Huskie	13	100	100	100	60
Audit 1:1	0.4				
Huskie	13	100	99	100	67
Audit 4:1	0.6				
Nontreated Check	--	--	--	--	46
LSD (5%)		9	9	ns	16

<sup>a</sup> Treatments were applied POSPOS on May 20.