

Study Name: Broadleaf weed control with Paramount tank mixes

Study Number: 9921

Objectives: Evaluate effect of Paramount

Results: The field was prepared in a conventional-till system and fertilized with anhydrous. Due to the wet conditions in early May, we were not able to seed the wheat until May 20. We had a good population of green and yellow foxtail (24/ft²) and wild buckwheat (4/ft²), but a low population of kochia and pigweed (1-2/ft²). The wheat was severely damaged by hail on July 13 and 80 mph winds a week later. We estimated over 50% injury in late July.

Foxtail control with Paramount dropped slightly when tankmixed with a broadleaf product compared to Paramount alone. Control was slightly higher with the higher Paramount rate. There was more antagonism from Assert (10-20%) than Bronate (7-10%), while there was essentially no difference in foxtail control when tankmixed with Canvas.

Bronate by itself showed excellent control of wild buckwheat, kochia, and pigweed. However, when tankmixed with Paramount, wild buckwheat control dropped 10-25%, pigweed control about 15%, while kochia control did not change.

As would be expected, kochia and pigweed control was higher when Paramount was tankmixed with Assert compared to Assert alone. Assert showed fair activity on wild buckwheat. However, at the last rating, wild buckwheat control was reduced about 25% when Assert was tankmixed with Paramount compared to Assert alone.

There was no difference in pigweed control where Assert and Canvas were applied alone or in combination with Paramount. However, pigweed control dropped about 15% when Bronate was mixed with Paramount compared to Bronate alone.

Table. Broadleaf weed control with Paramount tank mixes

Treatment	Rate	Fxtl	Wibw	Kocz	Rrpw	Fxtl	Wibw	Kocz	Rrpw
		July 6				Aug 17			
-----% control -----									
Untreated		0	0	0	0	0	0	0	0
Paramount + MSO	0.14 lb ai + 24 fl oz	83	0	43	33	88	0	30	27
Paramount + MSO	0.188 lb ai + 24 fl oz	87	0	52	23	89	0	37	23
Paramount + MSO + Assert	0.14 lb ai + 24 fl oz + 0.31 lb ai	76	63	28	20	68	42	23	20
Paramount + MSO + Assert	0.188 lb ai + 24 fl oz + 0.31 lb ai	81	62	45	28	78	43	32	23
Paramount + MSO + Bronate	0.14 lb ai + 24 fl oz + 0.5 lb ai	77	90	85	81	78	81	88	78
Paramount + MSO + Bronate	0.188 lb ai + 24 fl oz + 0.5 lb ai	80	81	93	78	82	68	92	79
Paramount + MSO + Ally + Harmony Extra	0.14 lb ai + 24 fl oz + 0.05 oz + 0.15 oz	80	78	82	95	87	63	72	96
Paramount + MSO + Ally + Harmony Extra	0.188 lb ai + 24 fl oz + 0.05 oz + 0.15 oz	83	75	85	95	88	62	78	97
Tiller	1.7 pt	89	20	42	70	92	17	27	73
Assert + MSO	0.31 lb ai + 24 fl oz	0	73	13	10	0	67	17	17

Bronate + MSO	0.5 lb ai + 24 fl oz	0	92	93	90	0	92	92	93
Ally + Harmony Extra+ MSO	0.05 oz + 0.15 oz + 24 fl oz	18	88	77	95	20	90	65	98
