

Study Name: Broadleaf weed control in spring wheat with Orion (0737)

Objectives: Evaluate a new herbicide for broadleaf weed control in spring wheat

Results:

Orion (A15898) is a new broadleaf herbicide being developed by Syngenta. It contains florasulam (Group 2) and MCPA. No crop injury was observed in any treatment. Orion did not control kochia, which is likely ALS-resistant kochia. All treatments provided excellent control of lambsquarters, wild buckwheat, and redroot pigweed. However, weed density was low in the study area. All treatments had slightly higher wheat yields than the untreated check, though not statistically different.

Treatment	Rate	Kocz ^a		Colq ^a		Wibw ^a		Rrpw ^a		Wheat	
		% control Jun 26	% control Aug 6	% control Jun 26	% control Aug 6	% control Jun 26	% control Aug 6	% control Jun 26	% control Aug 6	Yield lb/A	Test wt. lb/bu
Untreated		0	0	0	0	0	0	0	0	33.5	61.4
Orion	17fl oz	37	40	93	100	85	95	70	100	40.8	61.9
Orion + Starane	17fl oz + 0.67pt	95	98	97	100	88	95	77	95	40.1	62.1
Orion + Buctril	17fl oz + 1pt	94	99	100	100	93	100	73	93	35.8	62.0
Orion + Stinger	17fl oz + 0.33pt	38	47	99	100	94	100	77	100	37.1	61.6
Bronate Advanced	1pt	95	99	100	100	94	100	80	94	36.5	61.6
WideMatch + MCPA ester	1pt + 0.75pt	95	100	98	100	93	100	67	100	37.6	62.4
Affinity TM + MCPe	0.60oz + 0.75pt	49	43	99	100	95	100	90	100	36.7	62.4
Curtail M	1.75pt	47	50	99	100	90	100	63	97	38.5	62.3
LSD (0.05)		13.9	20.2	3.6	0	5.3	4	16.3	7	NS	NS
CV		13.1	18.2	2.4	0	3.8	2.6	14.2	4.7	9.5	0.92

^a Kocz = Kochia; Colq = Common lambsquarters; Wibw = Wild buckwheat; Rrpw = Redroot pigweed