

Wild oat control with A12303 (Pinoxaden) + A12127 alone and with broadleaf herbicides at Crookston, MN - 2005. Durgan, Beverly R., Jochum Wiersma, Jim Cameron, and Douglas Miller . The objective of the this experiment was to evaluate wild oat control and crop injury with A12303 + A12127 (Pinoxaden + adjuvant) alone and with several broadleaf herbicides at two application dates. The experiment was conducted at Crookston, MN on a Donaldson and Wheaton loam soil. Following weedy fallow, the experimental area received 100 lb/A of N and was fall plowed. In the spring of the following year, the experimental area was disked and harrowed. 'Alsen' hard red spring wheat was seeded on May 3 at 1.5 Bu/A. All herbicide treatments were applied with a backpack type sprayer delivering 10 gpa at 30 psi using 80015 flat fan nozzles. The experimental design was a randomized complete block with three replications and plot size was 10 by 16 ft. Application data and environmental conditions are listed below. Crop injury and wild oat control were visually rated. Yields were measured. All data are presented in the table below.

Treatment Date	June 4	June 9
Wheat stage	3.5 - 4 leaf	4 - 4.5 leaf
Air temperature (°F)	65	60
Relative humidity (%)	85	65
Soil conditions	moist	moist
Rainfall before Application		
Week 1 (inch)	0.47	1.47
Rainfall after Application		
Week 1 (inch)	1.40	2.39
Week 2 (inch)	2.39	0.00

Table. Wild oat control with A12303 (pinoxaden) + A12127 alone and with broadleaf herbicides at Crookston, MN - 2005 (Durgan, Wiersma, Cameron, and Miller).

Treatment	Rate (lb ai/A)	Wheat Injury		AVEFA Control		Wheat Yield (bu/A)
		7/5	7/11	7/5	7/11	
----- % -----						
<u>Application #1 (June 4)</u>						
A12303 ¹ + A12127 ²	0.053 + 0.75%	0	0	100	99	58
A12303 + A12127 + bromoxynil & MCPA ester ³	0.053 + 0.75% + 0.25 & 0.25	0	0	100	99	57
A12303 + A12127 + thifensulfuron & tribenuron ⁴	0.053 + 0.75% + 0.0125 & 0.0062	0	0	100	99	54
A12303 + A12127 + clopyralid & fluroxypyr ⁵ + MCPA ester	0.053 + 0.75% + 0.125 & 0.125 + 0.025	0	0	100	99	49
A12303 + A12127 + thifensulfuron + tribenuron	0.053 + 0.75% + 0.015 + 0.00375	0	0	100	99	57
A12303 + A12127 + thifensulfuron + MCPA ester	0.053 + 0.75% + 0.0187 + 0.25	0	0	100	99	43
Fenoxaprop & safener + bromoxynil & MCPA ester	0.084 + 0.25 & 0.25	0	0	99	96	53
Clodinafop & cloquintocet+ bromoxynil & MCPA ester	0.05 + 0.25 & 0.25	0	0	100	99	56
<u>Application #2 (June 9)</u>						
A12303 + A12127	0.053 + 0.75%	0	0	99	99	39
A12303 + A12127 + bromoxynil & MCPA ester	0.053 + 0.75% + 0.25 & 0.25	0	0	100	99	37
A12303 + A12127 + thifensulfuron & tribenuron ⁴	0.053 + 0.75% + 0.0125 & 0.0062	0	0	100	99	34
A12303 + A12127 + clopyralid & fluroxypyr ⁵ + MCPA ester	0.053 + 0.75% + 0.125 & 0.125 + 0.025	0	0	99	99	31
A12303 + A12127 + thifensulfuron + tribenuron	0.053 + 0.75% + 0.015 + 0.00375	0	0	100	99	35
A12303 + A12127 + thifensulfuron + MCPA ester	0.053 + 0.75% + 0.0187 + 0.25	0	0	00	99	44
Fenoxaprop & safener + bromoxynil & MCPA ester	0.084 + 0.25 & 0.25	0	0	95	60	31
Clodinafop & cloquintocet+ bromoxynil & MCPA ester	0.05 + 0.25 & 0.25	0	0	100	99	29
Weedy check		0	0	--	--	21
LSD (P=.05)		ns	ns	ns	9	16

¹ A12303 = pinoxaden.

² A12127 = adjuvant.

³ Premix = Bronate Advanced 5E.

⁴ Premix = Harmony Extra 75DF.

⁵ Premix = Widematch 1.5E.