

Broadleaf weed control in spring wheat with Huskie and other broadleaf herbicides at Crookston, MN - 2007. Durgan, Beverly R., Jochum Wiersma, Jim Cameron, and Douglas Miller.

This experiment was designed to evaluate broadleaf weed control and wheat injury with Huskie (pyrasulfotole & bromoxynil & safener premix) and various other broadleaf herbicides. 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 the experimental area was disked and harrowed. 'Alsen' hard red spring wheat was seeded on April 25 at 1.75 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 24 ft. Application date and environmental conditions are listed below. Crop injury and weed control were visually rated and yields were measured. Data presented in the tables below.

Treatment Date **May 27**

Wheat stage 4.5 leaf

Weed Size

Wild Buckwheat 6 leaf

Wild Mustard 8 leaf

Air temperature (°F) 68

Relative humidity (%) 28

Soil temperature (°F) 65

Wind W 1 mph

Sky sunny

Rainfall before

Application

Week 1 (inch) 1.21

Rainfall after

Application

Week 1 (inch) 0.57

Week 2 (inch) 1.28

Table 1. Broadleaf weed control in spring wheat with Huskie and other broadleaf herbicides at Crookston, MN - 2007. Durgan, Wiersma, Cameron, and Miller.

Treatment	Rate	Weed Control										
		Common			Pennsylvania			Redroot				
		Lambsquarters	Smartweed	Pigweed	6/15	6/28	7/6	6/15	6/28	7/6	6/15	6/28
	Product/A	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Huskie + N-Pak AMS	11 oz + 1.2 pt	100	100	100	100	99	97	100	100	100		
Huskie + N-Pak AMS + Preference	11 oz + 1.2 pt + 3.2 oz	100	100	100	100	97	100	100	100	100		
Huskie + N-Pak AMS	13.5 oz + 1.2 pt	100	100	100	100	99	100	100	100	100		
Huskie + Alliance	11 oz + 19.2 oz	100	100	100	100	100	100	100	100	100		
Huskie + Alliance	11 oz + 16 oz	100	100	100	100	100	100	100	100	100		
Huskie + AG 03019	11 oz + 2 pt	100	100	99	100	100	97	100	100	100		
Huskie + AG 07046	11 oz + 1 pt	100	100	100	100	100	100	100	100	100		
Huskie + AG 07046	11 oz + 2 pt	100	100	100	100	100	100	100	100	100		
AGH 020075	5 oz	100	100	100	95	87	94	97	97	97		
2,4-D LV6	0.33 pt	100	100	97	92	93	88	95	93	93		
BAYER Test Compound 13 + N-Pak AMS	27.4 oz + 1.2 pt	98	100	98	98	97	91	98	100	96		
Harmony GT + Express	0.48 + 0.24	98	98	100	98	95	96	98	98	100		
Affinity Tankmix + MCPA-Ester	0.5 oz + 0.33 pt	97	98	100	98	95	97	98	98	100		
Bronate Advanced	0.8 pt	97	98	100	98	98	99	98	98	100		
Widematch + MCPA-Ester	1 pt + 0.75 pt	98	98	100	98	95	99	98	98	100		
Clarity + MCPA-Ester	4 oz + 0.5 pt	92	98	99	92	92	90	93	90	98		
Curtail	2 pt	100	100	99	98	97	91	98	98	98		
Affinity Tankmix + Starane	0.6 oz + 0.33 pt	100	100	100	98	100	97	98	98	100		
Weedy Check	--	--	--	--	--	--	--	--	--	--		
LSD (0.05)		ns	ns	ns	5	6	5	4	4	ns		

Huskie 2.08 EC = pyrasulfotole & bromoxynil & safener.

N-Pak AMS = ammonium sulfate solution.

Preference = nonionic surfactant.

Alliance = ammonium sulfate based water conditioning agent.

AG 03019 = experimental adjuvant from Agrilience.

AG 07046 = experimental adjuvant from Agrilience.

AGH 020075 = experimental from Agrilience.

2,4-D LV6 Ester 6E.

Harmony GT 50SG = thifensulfuron.

Express 50SG = tribenuron.

Affinity Tankmix 50SG = thifensulfuron (40%) & tribenuron (10%).

MCPA Ester 4E.

Bronate Advanced 5E = bromoxynil (2.5 lb ai/gal) & MCPA (2.5 lb ae/gal).

Widematch 1.5 E = clopyralid (0.75 lb ae/gal) & fluroxypyr (0.75 lb ae/gal).

Clarity 4L = dicamba.

Curtail 2.38 L = clopyralid (0.38 lb ai/gal) & 2,4-D (2 lb ae/gal).

Starane 1.5 E = fluroxypyr.

Table 2. Broadleaf weed control in spring wheat with Huskie and other broadleaf herbicides at Crookston, MN - 2007. Durgan, Wiersma, Cameron, and Miller.

Treatment	Rate Product/A	Weed Control									Wheat Yield (Bu/A)	
		Wild Buckwheat			Wild Mustard			Wheat Injury				
		6/15 (%)	6/28 (%)	7/6 (%)	6/15 (%)	6/28 (%)	7/6 (%)	6/8 (%)	6/15 (%)	6/28 (%)		7/6 (%)
Huskie + N-Pak AMS	11 oz + 1.2 pt	100	100	97	100	100	100	0	0	0	0	65
Huskie + N-Pak AMS + Preference	11 oz + 1.2 pt + 3.2 oz	100	100	100	98	97	100	2	0	0	0	64
Huskie + N-Pak AMS	13.5 oz + 1.2 pt	100	100	100	100	100	100	0	0	0	0	69
Huskie + Alliance	11 oz + 19.2 oz	100	100	100	100	98	100	0	0	0	0	68
Huskie + Alliance	11 oz + 16 oz	97	100	100	100	100	100	2	0	0	0	60
Huskie + AG 03019	11 oz + 2 pt	100	100	99	100	100	100	0	0	0	0	62
Huskie + AG 07046	11 oz + 1 pt	100	100	100	100	100	100	0	0	0	0	68
Huskie + AG 07046	11 oz + 2 pt	100	100	100	100	100	100	0	0	0	0	61
AGH 020075	5 oz	88	87	92	95	92	100	3	2	2	0	66
2,4-D LV6	0.33 pt	87	85	87	93	92	100	5	2	2	3	66
BAYER Test Compound 13 + N-Pak AMS	27.4 oz + 1.2 pt	98	98	91	98	100	100	3	3	2	0	69
Harmony GT + Express	0.48 + 0.24	92	90	94	96	98	100	2	0	0	0	60
Affinity Tankmix + MCPA-Ester	0.5 oz + 0.33 pt	98	98	99	96	95	100	2	2	2	0	66
Bronate Advanced	0.8 pt	98	98	99	97	100	100	0	0	0	0	68
Widematch + MCPA-Ester	1 pt + 0.75 pt	93	92	99	93	93	100	2	0	0	0	65
Clarity + MCPA-Ester	4 oz + 0.5 pt	83	78	93	90	90	97	17	20	20	20	60
Curtail	2 pt	98	100	92	95	97	100	7	5	7	12	61
Affinity Tankmix + Starane	0.6 oz + 0.33 pt	97	98	98	98	98	100	3	2	2	0	72
Weedy Check	--	--	--	--	--	--	--	2	0	0	0	40
LSD (0.05)		8	9	5	5	6	ns	5	4	4	2	ns

Huskie 2.08 EC = pyrasulfotole & bromoxynil & safener.

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