

Broadleaf weed control in spring wheat with Huskie and other broadleaf herbicides at Rosemount, MN - 2007. Durgan, Beverly R., Krishona Martinson, 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 Rosemount, MN on a Waukegon silt loam soil. Following soybeans, the experimental area was fall chisel plowed. In the spring, the area was fertilized with 50 lbs/A N and 70 lbs K. The field was disked once and field cultivated twice. 'Alsen' hard red spring wheat was seeded on May 2 at 85 lbs/A. The experimental design was a randomized complete block with three replications and plot size was 10 by 24 ft. All herbicide treatments were applied to a 6 ft strip with a backpack type sprayer delivering 10 gpa at 35 psi using 11001 flat-fan nozzles. A broadcast application of Puma (0.5 pt/A) was applied on June 1 to control grassy weeds. Visual weed control and yield data are presented in the table below. No visible wheat injury symptoms were noted. Environmental conditions and plant sizes are listed below.

Treatment Date	May 31
Temperature (degrees F)	
air	74
soil	82
Soil Moisture	moist
Dewpoint (degrees F)	55
Sky	20% clouds
Wind	SW 0-6
Rainfall before Application	
Week 1 (inch)	1.04
Rainfall after Application	0.80
Week 2 (inch)	0.06

Common Lambsquarters

height (inch)	2-4
leaf stage	4-6
density (#/ft ²)	9

Redroot Pigweed

height (inch)	1-3
leaf stage	6-8
density (#/ft ²)	24

Wheat

height (inch)	6-8
leaf stage	5
Tiller #	1-2

Common Ragweed

height (inch)	1-2
leaf stage	4-6
density (#/ft ²)	7.5

Wild Buckwheat

height (inch)	2-5
leaf stage	4-6
density (#/ft ²)	1.25

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Treatment	Rate	Weed Control												Wheat Yield (Bu/A)
		Common Lambsquarters			Common Ragweed			Redroot Pigweed			Wild Mustard			
		6/15	6/21	7/15	6/15	6/21	7/15	6/15	6/21	7/15	6/15	6/21	7/15	
Product/A	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)		
Huskie + N-Pak AMS	11 oz + 1.2 pt	80	99	99	67	96	99	67	85	91	67	99	99	55
Huskie + N-Pak AMS + Preference	11 oz + 1.2 pt + 3.2 oz	86	99	98	70	99	99	70	90	91	70	99	96	54
Huskie + N-Pak AMS	13.5 oz + 1.2 pt	83	99	98	67	99	99	67	80	93	67	99	98	55
Huskie + Alliance	11 oz + 19.2 oz	73	99	99	60	99	99	60	83	91	60	99	98	54
Huskie + Alliance	11 oz + 16 oz	60	99	99	37	99	98	37	83	92	37	99	98	57
Huskie + AG 03019	11 oz + 2 pt	80	99	99	60	99	99	60	82	93	60	99	96	55
Huskie + AG 07046	11 oz + 1 pt	80	99	99	63	99	99	63	80	93	63	99	99	58
Huskie + AG 07046	11 oz + 2 pt	80	99	99	60	99	99	60	83	95	60	99	99	55
AGH 020075	5 oz	60	93	70	40	53	68	33	53	72	33	79	43	55
2,4-D LV6	0.33 pt	60	96	68	27	60	63	27	40	63	27	96	40	54
BAYER Test Compound 13 + N-Pak AMS	27.4 oz + 1.2 pt	73	99	99	53	99	99	53	85	92	53	99	99	55
Affinity Tankmix	0.6 oz	67	90	98	40	53	98	53	77	95	53	96	98	53
Affinity Tankmix + MCPA-Ester	0.5 oz + 0.33 pt	67	96	99	33	47	99	47	80	92	47	96	99	52
Bronate Advanced	0.8 pt	63	99	99	43	99	96	43	80	80	43	99	88	55
Widematch + MCPA-Ester	1 pt + 0.75 pt	67	99	99	53	96	98	53	77	92	53	99	93	52
Clarity + MCPA-Ester	4 oz + 0.5 pt	60	99	85	47	99	87	47	87	83	47	99	63	51
Curtail	2 pt	60	99	96	47	99	98	47	80	91	47	99	96	49
Affinity Tankmix + Starane	0.6 oz + 0.33 pt	70	99	99	47	76	99	53	76	98	53	99	99	51
Weedy Check	--	--	--	--	--	--	--	--	--	--	--	--	--	45
LSD (0.05)		18	5	6	22	19	6	22	16	6	22	ns	7	6

Huskie 2.08 EC = pyrasulfotole & bromoxynil & safener.

N-Pak AMS = ammomium sulfate solution.

Preference = nonionic surfactant.

Alliance = ammomium 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.

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.