

Broadleaf tank-mixes with reduced MKH6562 rate. Howatt, Kirk A., Ronald F. Roach, and Janet D. Harrington. An experiment was established to evaluate antagonism when MKH 6562 at reduced rates was applied with broadleaf herbicides. "Oxen" hard red spring wheat was seeded May 2. Treatments were applied to 3.5 leaf wheat and wild oat on June 4 with 72 F, 23% relative humidity, 15% cloudcover, 3 to 7 mph northeast wind, and soil temperature of 65 F. Treatments were applied with a backpack type sprayer delivering 8.5 gpa at 40 psi through 8001 flat fan nozzles to a 7 ft wide area the length of 10 by 30 ft plots. Wild oat population was greater than 300 plants/ft². A 4 by 30 ft area of each plot was harvested on August 5. The experiment was a randomized complete block design with four replicates.

There was no wheat injury. On July 4, 0.42 oz/A MKH 6562 provided 88% wild oat control. Only dicamba + carfentrazone antagonized MKH 6562, reducing wild oat control by 5 to 9 percentage points. Even though wild oat control generally was less than 90% it was observed that very few seeds were produced by surviving plants. (Dept. of Plant Sciences, North Dakota State University, Fargo)

Table. Broadleaf tank-mixes with reduced MKH6562 rate (Howatt, Roach, and Harrington).

Treatment ^a	Rate	Jun-20	Jul-04	Aug-05
		AVEFA	AVEFA	Yield
	(oz/A)	(%)	(%)	(bu/A)
MKH6562+NIS	0.42+0.25%	89	88	45
MKH6562+NIS	0.28+0.25%	87	87	47
MKH6562+brox&MCPA+NIS	0.42+4&4+0.25%	90	92	48
MKH6562+brox&MCPA+NIS	0.28+4&4+0.25%	89	89	50
MKH6562+thif&trib+flox&MCPA+NIS	0.42+0.15&0.07+1.6&6.4+0.25%	86	89	44
MKH6562+thif&trib+flox&MCPA+NIS	0.28+0.15&0.07+1.6&6.4+0.25%	82	88	43
MKH6562+dicamba+carf+NIS	0.42+1.5+0.128+0.25%	87	83	47
MKH6562+dicamba+carf+NIS	0.28+1.5+0.128+0.25%	79	78	46
Untreated	0	0	0.0	36
CV		2	2	9
LSD 5%		2	3	6

^aNIS was Activator 90 from Loveland Industries, Greeley, CO.