

2012 POST Applied Herbicide + Fertilizer on Grain Corn at Minot, ND - Eric Eriksmoen

'DKC30-20' corn was seeded into tilled summer fallow on May 15. Treatments were applied on June 28 to V5 corn with 65° F, 74% RH, sunny sky and SW wind at 5 mph. Treatments were applied with a hand held CO₂ propelled boom delivering 10 gpa to 5 foot wide by 25 foot long plots. The soil is classified as a loam with a pH of 6.9 and OM of 2.7%. The trial was a randomized complete block design with four replications. Plots were evaluated for crop injury and weed control on July 13 and September 14. The trial was harvested on September 19.

Summary

Crop injury from applied treatments was not observed. Both broadleaf and grassy weed control was very good for all treatments and none of the foliar fertilizers appeared to enhance or antagonize herbicide efficacy. The top three yielding treatments (trts 10, 13 & 15) all contained Actigro Cu even though soil and leaf tissue analysis did not indicate a copper deficiency.

Treatment	Product	--- June 18 ---		Days to	----- Sept 14 -----			Test	Grain	
	Rate	Crop Inj	fxtl	Silk	Crop Inj	fxtl	bdlf*	weight	yield	
	oz/A	%	%	DAP**	%	%	%	lbs/bu	bu/A	
1	Makaze + LI 6421 + LI 700 + WeatherGuard	32 32 16/100gal 0.5%	0	99	73	0	94	96	57.8	132
2	Makaze + Black Jack Zn + LI 700 + WeatherGuard	32 16 16/100gal 0.5%	0	99	73	0	97	98	58.0	125
3	Makaze + BoMnZn + LI 700 + WeatherGuard	32 10 16/100gal 0.5%	0	99	73	0	96	98	57.6	132
4	Makaze + Awaken Zn+ LI 700 + WeatherGuard	32 32 16/100gal 0.5%	0	99	73	0	98	97	57.3	131
5	Makaze + LI 700 + WeatherGuard	32 16/100gal 0.5%	0	99	73	0	93	99	58.3	127
6	R'up WeatherMax	16	0	99	73	0	92	97	57.9	127
7	R'up WeatherMax + Awaken Zn + UAN + NIS	16 32 5% + 0.5%	0	99	73	0	95	96	57.5	125
8	R'up WeatherMax + AMS + NIS	16 5% + 0.5%	0	95	73	0	90	5	57.8	122
9	R'up WeatherMax + BoMnZn + UAN + NIS	16 10 5% + 0.5%	0	99	73	0	93	98	57.1	135
10	R'up WeatherMax + BoMnZn + Actigro Cu + UAN + NIS	16 10 64 5% + 0.5%	0	97	73	0	95	97	57.9	142
11	R'up WeatherMax + BoMnZn + AMS + NIS	16 10 5% + 0.5%	0	99	73	0	97	97	57.8	136
12	R'up WeatherMax + UAN + NIS	16 5% + 0.5%	0	99	73	0	93	95	57.8	129
13	R'up WeatherMax + Actigro Cu + UAN + NIS	16 64 5% + 0.5%	0	98	73	0	89	92	57.4	150
14	R'up WeatherMax + 25-0-0-Boron + NIS	16 5% + 0.5%	0	99	73	0	93	97	58.3	138
15	R'up WeatherMax + Actigro Cu + NIS	16 64 + 0.5%	0	98	73	0	91	95	57.8	148
16	R'up WeatherMax + MiracleGro + NIS	16 1 lb + 0.5%	0	99	73	0	95	93	57.6	130
C.V. %			0	1.3	0	0	3.4	13.1	1.3	8.1
LSD 0.1			NS	1	NS	NS	4	NS	NS	13

* bdlf = purslane and common lambsquarter mix.

NS = no statistical difference between treatments.

** DAP = days after planting.