

**2004 Small Grain Variety Tolerance to ET Herbicide at Hettinger.** Varieties of HRSW, durum, barley and oat were seeded on April 5. ET Herbicide was applied at rates of 1 ounce and 2 ounces pre acre to 4 leaf small grain varieties on May 27 with 59° F, 68% RH, clear sky and 3 mph W wind. Treatments were applied with a pickup mounted sprayer delivering 20 gpa at 40 psi through 8004 flat fan nozzles to a 6 foot wide area the width of 11 by 120 foot plots. The experiment was not replicated. Varieties were evaluated for crop injury on May 29, June 4 and on June 22.

HRSW	Durum	Barley	Oat
Oxen	Rugby	Morex	AC Assiniboia
Mercury	Monroe	Robust	Beach
Parshall	Renville	Excel	Buff
Reeder	Munich	Stander	CDC Dancer
Alsen	Ben	Foster	Ebeltoft
Briggs	Belzer	Drummond	AC Gwen
Granite	Maier	Lacey	Hyttest
Dapps	Mountrail	Legacy	HiFi
Keene	Lebsock	Tradition	Jerry
Gunner	Plaza	Bowman	AC Kaufman
Russ	Pierce	Conlon	Killdeer
Ingot	Dilse	Eslick	AC Medallion
Norpro	AC Avonlea	Harrington	Monida
AC Amizon	Primo D'Oro	Logan	Morton
AC Superb		AC Metcalfe	Otana
Knudson		Stark	CDC Pacer
Hanna		Valier	AC Pinnacle
Steele ND		Haxby	Paul
Freyr			Reeves
Banton			AC Ronald
Laser			Sesqui
Outlook			Stark
Trooper			Youngs

### Summary

All varieties exhibited severe leaf chlorosis and necrosis on May 29. New plant growth was evident on all varieties on June 4. There was no noticeable injury (plant stunting, head deformity, leaf chlorosis or necrosis) to any variety on June 22.