

2002 Grassy Weed Control in Spring Wheat at Hettinger. (Eriksmoen) Reeder hard red spring wheat was seeded on April 30. Treatments were applied to 3 leaf wheat and to 3 leaf wild oats on May 31 with 58 F, 79 % RH, clear sky and 7 mph wind. Treatments were applied with a tractor mounted CO2 propelled plot sprayer delivering 17 gpa at 40psi through 8001 flat fan nozzles to a 5 foot wide area the length of 10 by 28 foot plots. The trial was sprayed with 1 pt/A Buctril + 8 oz/A Starane on June 7 to control broadleaf weeds. The experiment was a randomized complete block design with four replications. Wild oat populations were 22 plants per sq. foot. Evaluations for crop injury were on June 14 and for wild oat control on July 2 and on July 16. Areas of downy brome and Japanese brome were scattered throughout the trial site and were evaluated for control when present. The trial was not harvested due a short and thin crop caused by severe drought.

| Treatment | Rate | 6/14 | | 7/2 | | | 7/16 |
|-----------|---|-----------------------------|-------|-----------------------|------|------|------|
| | | HRSW | Wiot | Dobr | Jabr | Wiot | |
| | oz ai/A | Injury | | ----- % Control ----- | | | |
| 1 | Prcz + Thif&Trib + Act 90 | 0.63 + 0.22 + 0.25% | 0 | 97 | 95 | -- | 99 |
| 2 | Flcz + Thif&Trib + 2,4-D-Salvo + Act 90 | 0.42 + 0.22 + 4 + 0.25% | 0 | 99 | 90 | 99 | 99 |
| 3 | Clfp + Brox&MCPA5 + Score | 0.8 + 8 + 1% | 0 | 99 | 45 | 0 | 99 |
| 4 | Fenx + Brox&MCPA5 | 0.8 + 8 | 0 | 74 | 80 | -- | 76 |
| 5 | Tral + Brox& MCPA5 + Supercharge | 2.9 + 8 + 0.5% | 0 | 30 | 5 | -- | 40 |
| 6 | Flcz + Fenx + Brox&MCPA5 + Act 90 | 0.42 + 0.8 + 8 + 0.25% | 0 | 99 | 99 | -- | 99 |
| 7 | Flcz + Fenx + Brox&MCPA5 + Act 90 | 0.21 + 0.6 + 8 + 0.25% | 0 | 99 | 95 | -- | 99 |
| 8 | Flcz + Clfp + Brox&MCPA5 + Score + Act 90 | 0.42 + 0.8 + 8 + 1% + 0.25% | 0 | 99 | 99 | -- | 99 |
| 9 | Flcz + Clfp + Brox&MCPA5 + Score + Act 90 | 0.21 + 0.6 + 8 + 1% + 0.25% | 0 | 99 | 99 | 99 | 99 |
| 10 | Dife + Thif&Trib | 12 + 0.22 | 4 | 76 | -- | 0 | 80 |
| 11 | Dife + Immb + Thif&Trib + Act 90 | 3.7 + 8 + 0.22 + 0.25% | 0 | 99 | 0 | -- | 99 |
| 12 | Untreated | 0 | 0 | 0 | 0 | 0 | 0 |
| C.V. % | | | 175.8 | 15.0 | | | 12.6 |
| LSD 5% | | | 1 | 17 | | | 15 |

Summary

Crop injury was minimal on all herbicide treatments with the exception of the Dife + Thif&Trib (trt 10) treatment. Season long wild oat control was excellent for all herbicide treatments except for Fenx + Brox&MCPA5 (trt 4), Tral + Brox&MCPA5 + Supercharge (trt 5) and Dife + Thif&Trib (trt 10) which had significantly lower wild oat control than the other treatments. All Flcz treatments (trts 2, 6 - 9) and the Prcz treatment (trt 1) provided excellent downy brome and Japanese brome control where noted.