

Broadleaf weed control in 2 to 4 leaf spring wheat at Crookston, MN - 2013. Durgan,

Beverly R., Jochum Wiersma, Jim Cameron, and Douglas Miller. This experiment was designed to evaluate broadleaf weed control and wheat injury with broadleaf herbicides applied at the 2 to 4 leaf wheat stage. The experiment was conducted at Crookston, MN on a Donaldson and Wheaton loam soil. Following weedy fallow, the experimental area received 100 lb/A of N and was fall plowed. In the spring the experimental area was disked and harrowed. 'RB07' hard red spring wheat was seeded on May 7 at 1.5 Bu/A. All herbicide treatments were applied with a backpack type sprayer delivering 10 gpa at 30 psi using 80015 flat fan nozzles. The experimental design was a randomized complete block with three replications and plot size was 10 by 24 ft. Application date and environmental conditions are listed below. Crop injury and weed control were visually rated and yields were measured. Data presented in the table below.

Treatment Date June 3

Weed Density (#/ft²)

| | |
|---------------------------|----|
| - Nightflowering Catchfly | 24 |
| - Redroot Pigweed | 31 |
| - Wild buckwheat | 8 |
| - Wild Mustard | 5 |

Wheat Stage 2-4 leaf

Air temperature (°F) 62
Soil temperature (°F) 52
Relative humidity (%) 38
Wind SE 4 mph
Sky overcast

Rainfall before
Application

Week 1 (inch) 1.66

Rainfall after
Application

Week 1 (inch) 0.87

Week 2 (inch) 0.03

