## Broadleaf weed control in spring wheat with Huskie FX at Crookston, MN - 2021.

Durgan, Beverly R., Jochum Wiersma, Jim Cameron, and Houston Lindell. This experiment was designed to evaluate broadleaf weed control and wheat injury with Huskie FX. The experiment was conducted at Crookston, MN on a Donaldson and Wheaton loam soil. Following weedy fallow, 149 lbs/A N and 52 lbs/A P was applied, and the area was chisel plowed in the fall of 2020. In the spring of 2021, a seedbed was prepared using a field cultivator with rolling baskets. 'Linkert' hard red spring wheat was seeded on May 13 at 1.75 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 7** |
|---|---|
| Air temperature (°F) | 81 |
| Soil temperature (under sod) (°F) | 63 |
| Relative humidity (%) | 44 |
| Wind | NE 6.5 mph |
| Rainfall before Application | |
| Week 1 (inch) | 0.08 |
| Rainfall after Application | |
| Week 1 (inch) | 0.41 |
| Week 2 (inch) | 0.58 |
| Broadleaf weed height (inches) | 3-5 |

| **Weed Densities** | **(#/ft$^{2)}$** |
|---|---|
| Common Lambquarters | 15 |
| Common Mallow | 17 |
| Redroot Pigweed | 10 |
| Wild Buckwheat | 29 |
| Wild Mustard | 21 |

### Results

Control of common lambsquarters, common mallow, redroot pigweed, wild buckwheat, and wild mustard was excellent with all herbicide treatments.

Slight injury symptoms were observed with tank-mix combinations of Huskie FX + Luxxur and Huskie FX + Axial Bold on June 4. No injury was observed at any of the later rating dates.

There were no significant yield differences between the herbicide treatments or the untreated check.

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| | | Weed Control | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Common Lambsquarters | | | Common Mallow | | | Redroot Pigweed | | | Wild Buckwheat | | | Wild Mustard | | | Wheat Injury | | | Wheat |
| Treatment | Rate | 6/18 | 6/24 | 7/2 | 6/18 | 6/24 | 7/2 | 6/18 | 6/24 | 7/2 | 6/18 | 6/24 | 7/2 | 6/18 | 6/24 | 7/2 | 6/4 | 6/12 | 6/18 | Yield |
| | (Product/A) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (Bu/A) |
| Huskie FX | 15.5 oz | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 2 | 0 | 0 | 34 |
| Huskie FX | 18 oz | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 0 | 0 | 0 | 35 |
| Huskie FX + Luxxur B + Luxxur A | 15.5 oz + 6.85 oz + 0.21 oz | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 8 | 0 | 0 | 26 |
| Huskie FX + Luxxur B + Luxxur A | 18 oz + 6.85 oz + 0.21 oz | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 10 | 0 | 0 | 27 |
| Huskie FX + Axial Bold | 15.5 oz+ 15 oz | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 7 | 0 | 0 | 29 |
| Widematch + MCPA ester | 1 pt + 0.5 pt | 99 | 99 | 96 | 99 | 99 | 96 | 99 | 99 | 96 | 99 | 99 | 99 | 99 | 99 | 99 | 0 | 0 | 0 | 31 |
| Talinor + CoAct+ | 13.7 oz + 2.75 oz | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 96 | 99 | 99 | 96 | 99 | 99 | 3 | 0 | 0 | 24 |
| Bison | 1 pt | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 0 | 0 | 0 | 29 |
| Untreated Check | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0 | 0 | 0 | 32 |
| LSD (0.05) | | ns | ns | ns | ns | ns | ns | ns | ns | ns | ns | ns | ns | ns | ns | ns | 5.5 | ns | ns | ns |

Huskie FX 2.31 EC = pyrasulfotole (0.26 lb ai/gal) & fluroxypyr (0.60 lb ai/gal) & bromoxynil (1.45 lb ai/gal) & safener.

Luxxur B 0.083L = thiencarbazone-methyl.

Luxxur A 50SG = tribenuron-methyl.

Axial Bold 0.685EC = pinoxaden (0.457 lb/gal) and fenoxaprop-p-ethyl (0.228 lb/gal).

Widematch 1.5E = clopyralid (0.75 lb ae/gal) & fluroxypyr (0.75 lb ae/gal).

MCPA Ester 4E.

Talinor = bicyclopyrone & bromoxynil.

CoAct+ = adjuvant.

Bison 4E = bromoxynil (2 lb ai/gal) & MCPA (2 lb ae/gal).