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Michigan Wheat Field Day Field Notes

Herbicide options for weed control in winter wheat

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Problem Statement:

Winter wheat is a fairly good competitor with weeds. However, winter annual weeds, like common chickweed and mustard species, and some early-season summer annuals can reduce wheat yields if not adequately controlled. These weeds can also complete their life-cycles and produce viable seed that will contribute to the weed seed bank. There are several herbicide options that Michigan wheat growers can apply for weed control.

Research Objectives:

- Compare the effectiveness and yield of individual herbicides and herbicide programs for weed control in winter wheat.

Herbicides Available and Examined:

- **Affinity BroadSpec** (*thifensulfuron + tribenuron*): Site of Action (SOA) Groups: 2/2, Rate: 0.75 oz/A, Timing: Feekes 1.2 to 7.9, Additives: NIS, Strengths: chickweed, mustards, common lambsquarters. Will not control ALS-(Group 2) resistant weeds.
- **Huskie** (*pyrasulfotole + bromoxynil*): SOA Groups: 27/6, Rate: 13.5 fl oz/A, Timing: Feekes 1 to 7.9, Additives: NIS + AMS, Strengths: chickweed, horseweed, mustards, common lambsquarters.
- **Talinor** (*bicyclopyrone + bromoxynil*): SOA Groups: 27/6, Rate: 13.7 fl oz/A, Timing: Feekes 1.2 to 8, Additives: CoAct+ + COC, Strengths: chickweed, mustards, common lambsquarters, common ragweed.
- **Quelex** (*halauxifen + florasulam*): SOA Groups: 4/2, Rate: 0.75 oz/A, Timing: Feekes 1.2 to 7.9, Additives: COC, Strengths: chickweed, horseweed, mustards, common lambsquarters.
- **2,4-D ester**: SOA Group: 4, Rate: 1 pt/A, Timing: Feekes 3 to 6, Additives: none, Strengths: mustards, horseweed, common lambsquarters, common ragweed.
- **Clarity** (*dicamba*): SOA Group: 4, Rate: 0.25 pt/A, Timing: Feekes 3 to 6, Additives: none, Strengths: horseweed, shepherdspurse, common lambsquarters, common ragweed.
- **WideMatch** (*clopyralid + fluroxypyr*): SOA Groups: 4/4, Rate: 1.33 pt/A, Timing: Feekes 1.3 to 9, Additives: none, Strengths: horseweed, common ragweed.
- **PowerFlex** (*pyroxsulam*): SOA Group: 2, Rate: 2 oz/A, Timing: Feekes 1.3 and 6, Additives: NIS + AMS, Strengths: grasses (including windgrass, cheat, downy brome),

chickweed, mustards, common lambsquarters. Will not control ALS-(Group 2) resistant weeds.

- **Osprey** (*mesosulfuron*): SOA Group: 2, Rate: 4.75 oz/A, Timing: Feekes 1 and 6, Additives: NIS + AMS, Strengths: grasses (including windgrass, cheat, annual bluegrass). Will not control ALS-(Group 2) resistant weeds.

New Weed Problems in Winter Wheat

Several new grass weed problems are showing up in Michigan wheat fields. It is important to be able to distinguish these different grasses for appropriate control measures.

