

Barley tolerance to preemergence herbicides

The objective of the study was to evaluate barley tolerance to non-labeled preemergence herbicides. If resistance to Group 1 herbicides (Puma, Axial, etc.) continues to increase, we will need alternative herbicides to control grassy weeds in barley. All treatments were applied May 15, four days after planting. Dual II Magnum, Pre-Pare, and Valor caused slight to moderate crop injury at the June 5 and June 25 ratings. However, by July 11 very little barley injury was visible. Despite the early injury from some herbicides, there were no yield differences between treatments. Several treatments yielded slightly lower than the untreated; however, statistically there were no yield differences between treatments. This study will be conducted again in 2013 to confirm these results.

| Table. Barley tolerance to preemergence herbicides. (1208) | | Barley | | | | | |
|--|---------|-------------|--------|--------|--------|-------|-------|
| Treatment ^a | Rate | Injury | | | | Yield | TW |
| | | 5-Jun | 25-Jun | 11-Jul | 21-Jul | 6-Aug | |
| | | -----%----- | | | | bu/A | lb/bu |
| Untreated | | 0 | 0 | 0 | 0 | 84.8 | 42.4 |
| Zidua | 3 oz | 0 | 0 | 0 | 0 | 78.6 | 43.3 |
| Warrant | 1.5 qt | 2 | 1 | 1 | 0 | 86.2 | 43.3 |
| Dual II Magnum | 1.67 pt | 15 | 13 | 6 | 5 | 82.5 | 43.1 |
| Pre-Pare | 0.3 oz | 25 | 17 | 5 | 3 | 81.0 | 42.6 |
| Prowl H2O | 3 pt | 2 | 1 | 0 | 0 | 80.5 | 43.5 |
| Valor | 3 oz | 30 | 20 | 5 | 2 | 82.0 | 42.9 |
| LSD (0.05) | | 6 | 5 | NS | NS | NS | NS |
| CV | | 29 | 40 | 139 | 257 | 10 | 3 |

^a All treatments applied PRE