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Late Season Broadleaf Weed Control in Corn and Sorghum

Corn should not be sprayed with 2,4-D from a week before tassel emergence until after the silks turn brown. Treatments during this critical time often interfere with pollination and cause yield reductions. After the silks turn brown, pollination is complete and 2,4-D use can safely resume. Most corn in Nebraska is now in the stage where it should not be sprayed with 2,4-D.

Grain sorghum should not be sprayed with 2,4-D from the boot stage through dough stage of the grain. As in corn, pollination problems and yield reductions result from spraying sorghum during this sensitive period. Spraying with 2,4-D can be resumed after the soft dough stage. Between 12" height and boot stage, drop extensions should be used to direct 2,4-D away from the sorghum whorl. Under no conditions should Banvel be used on grain sorghum after it is 15" tall.

Rescue Treatments for Soybeans

Rescue from Uniroyal is a combination of Alanap and 2,4-DB registered for control of escaped sunflower 12" to flowerbud and cocklebur 8" to 24" tall in soybeans. Applications should be made after soybeans are 14" tall or first bloom. Crop oil concentrate or a nonionic surfactant should be used with Rescue. Spray pressures of 40 to 50 psi result in better coverage and weed control. Aerial application and spot spraying are also labeled. Under dry conditions, soybeans may wilt and suffer set back by a Rescue treatment. Recovery may not be complete if the weather stays dry. Weeds under dry conditions may not be completely controlled.

Butyrac 200 (2,4-DB) is registered as a broadcast treatment for cocklebur control from 10 days prebloom to midbloom. Cocklebur must form a protective canopy over the soybeans or crop injury may occur. Soybeans may show some effects of the herbicide for several days after treatment. Without a protective weed canopy, considerable soybean injury results from broadcast treatments.
Prepare Now for Conservation Tillage Next Year

Control weeds in small grain stubble this summer for planting wheat in the fall or for 1988 spring planting of corn, sorghum, and soybeans. Advances in chemical weed control make possible the control of weeds and volunteer grain without tillage. Weed control without tillage conserves moisture, reduces wind and water erosion, and cuts back on energy, machinery, and labor costs.

The immediate demand for information is for weed control in small grain stubble so that winter wheat can be seeded this fall. However, planning ahead now for corn, sorghum, and soybean planting in 1988 is just as important. Successful chemical weed control requires consideration of certain basics:

1. Straw behind the combine should be uniformly spread, if not, bale it. Excess straw interferes with herbicide performance and planting the next crop.

2. A poor job of combining will contribute to poor herbicide performance. Heavy stands of volunteer grain are likely to strain herbicide capabilities.

3. Spray equipment should be operated at a minimum of 30 psi to provide thorough coverage.

4. Uniform herbicide distribution, regardless of the material used, is a must for satisfactory herbicide performance.

5. Let the straw residue "settle-in" on the field for two weeks before applying herbicides.

6. Use at least 20 gallons of water per acre with atrazine and Bladex. Do not use the 4L formulation of Bladex as it "hangs up" on the residue and does not perform well.

7. Use as little water as possible when applying Roundup. Unsatisfactory performance is likely if either Roundup or Gramoxone is applied to dust laden plants.

Suggested Herbicide Treatments Applied this Summer for Weed Control in Small Grain Stubble to be Planted to the Following Crops

<table>
<thead>
<tr>
<th>Small Grain Stubble</th>
<th>Corn-Sorghum-1988</th>
<th>Soybeans-1988</th>
<th>Wheat (this fall)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atrazine 2-3 lb ai +2,4-D ester 1 qt + Crop Oil Concentrate</td>
<td>Bladex 2.75 lb ai + 2,4-D ester 1-2 pt + Crop Oil Concentrate</td>
<td>Bladex 2-2.25 lb ai + 2,4-D ester 1 qt + Crop Oil Concentrate</td>
<td></td>
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</tbody>
</table>

Where annual grasses are more than 3" tall or very dry conditions exist, use Gramoxone + X-77 in place of 2,4-D. Treatments containing 2,4-D will help control field bindweed and hemp dogbane. The addition of 0.5 pt Banvel applied in areas at least 1/2 mile from sensitive crops will improve control of perennials including milkweed.

Postemergence Non-Residual Herbicide Treatments

1. Roundup 0.75-1 pt + 1 pt 2,4-D amine or 0.5 pt Banvel + 4 oz X-77. Ammonium sulfate (feed or fluid grade) at 17 lb/100 gallons of spray mixture can be added for improved consistency. Use no more than 10 gallons of water per acre. Controls annual grass and broadleaf weeds.

2. Gramoxone 1 1/2-2 pts/A + X-77. Use the lower rate on weeds less than 4" tall. Will burn down most weeds.

3. 2,4-D LV ester 1 qt/A. Controls annual and certain perennial broadleaf weeds. For improved control of perennials add 0.5 pt/A Banvel in areas at least 1/2 mile from sensitive crops.

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