

Crop Observation

(Continued from Page 19)

longer rainfast intervals. Some products have optimized surfactant packages in the formulation. This may not improve control compared to other glyphosate products applied with high-quality surfactants. However, choice of surfactant may influence control under certain conditions when the applicator has to decide which surfactant to use.

Comparing the amount of active ingredient in glyphosate products can be difficult. The true indicator of the activity of a glyphosate formulation is often not the total pounds of glyphosate shown on the label, but rather the pounds of glyphosate acid (or acid equivalent). This is the figure that should be considered when comparing the rates and costs of glyphosate formulations. The form of glyphosate found in Touchdown is a slight variation on the original glyphosate molecule, but has essentially the same specific activity or effectiveness per pound of glyphosate acid. The following table shows the amount of product required to provide the equivalent of 0.75 pounds glyphosate acid, or one quart of Roundup Ultra.

Product/formulation Rate for 0.75 pound glyphosate acid.

- Roundup Ultra 3S — 32-ounces
- Roundup Ultra Max 3.75S — 26-ounces
- Roundup Original 3S — 32-ounces
- Glyphomax/Glyphomax Plus 3S — 32-ounces
- Touchdown IQ — 32-ounces

Other premix products that contain glyphosate include:

Backdraft (BASF), a premix of imazaquin (Scepter) plus glyphosate for control of emerged weeds and residual control of broadleaf weeds. This product is targeted primarily for preplant or preemergence application to any type of soybean, but can be applied postemergence on Roundup Ready soybeans. The rate of glyphosate in this product may be too low for many burndown situations — the 1.5 quart per acre rate provides an amount of glyphosate equivalent to 13-ounces of Roundup Ultra Max (or one pint of Roundup Ultra).

Extreme (BASF), a premix of imazethapyr (Pursuit) plus glyphosate for postemergence plus residual weed control in Roundup Ready soybeans. This product may improve velvetleaf control, compared to glyphosate alone. The residual control from the imazethapyr may

also help control annual grasses, black nightshade, and a few other weeds that can emerge after postemergence applications. The use rate provides the equivalent of a labeled rate of Pursuit plus 20-ounces per acre of Roundup Ultra Max.

Ready Master ATZ (Monsanto), a premix of glyphosate (Roundup Ultra Max) plus atrazine. This product can be applied preemergence on any corn hybrid, and postemergence on Roundup Ready hybrids only. The two-quart rate provides the equivalent of one pound per acre of atrazine plus 26-ounces of Roundup Ultra Max.



CORN TALK NEWS

PENNSYLVANIA MASTER CORN GROWERS ASSOC., INC.

Nitrogen Topdress For Wheat (Lentz)

Soon it will be time to apply nitrogen as wheat fields begin to greenup. With the high cost of nitrogen and low grain prices, producers are looking for ways to get the most out of their fertilizer program. It is tempting to arbitrarily decrease nitrogen rates without considering the impact. Wheat yields will be greatly affected without adequate nitrogen, but what is adequate?

Nitrogen recommendations for Ohio wheat are based on the following rate equation: $40 + [1.75 \times (\text{yield potential } 50)]$

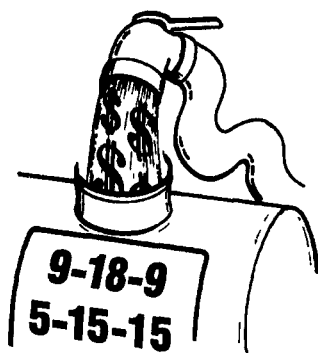
This equation shows that a realistic yield goal is the first place to consider rate adjustments. For example, if the yield goal has been 100 bushels per acre, but yields have actually been 90, then the crop has received 20 pounds that were not needed for yield. If the goal had been 100 bushels and average yields

(Turn to Page 21)

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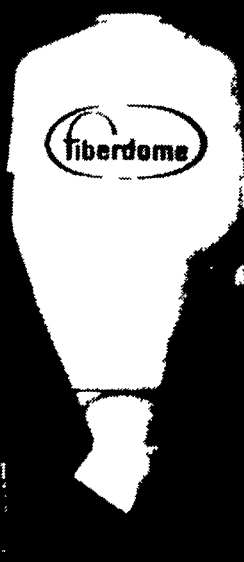
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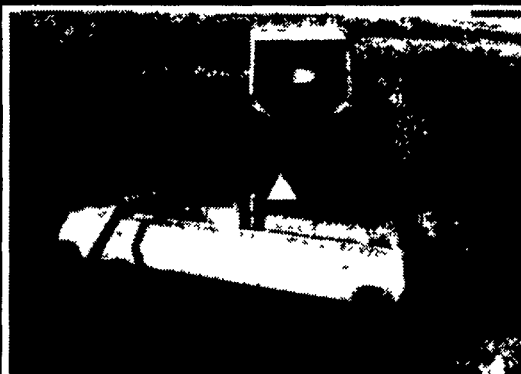
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