

# RESEARCH UPDATE

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**New Active Ingredients:**  
Broadstrike +Dual 7.67L is a new product being marketed by Ciba and DowElanco for use in field, silage, seed corn, and soybeans. This product contains 7.47 pounds metolachlor (Dual) plus 0.2 pound flumetsulam per gallon. Flumetsulam belongs to a new herbicide family called the sulfonamides. The sulfonamides are amino acid synthesis inhibitors specifically blocking the same process as the sulfonyleureas and imidazo-

linones (ALS enzyme). Broadstrike +Dual can be applied pre-plant or preemergence and the use rate ranges from 2 to 2-3/4 pints per acre. Broadstrike +Dual is effective on controlling lambsquarters, pigweed, velvetleaf, eastern black nightshade, smartweed, and annual grasses plus nutsedge.

Some early-season corn injury has been observed in University trials plus EUP plots and may be related to coarse textured soils and more alkaline soil pH. Early season injury may not adversely affect final

yield. Broadstrike +Dual is persistent enough to adversely affect several sensitive follow crops (sorghum and canola), so read the recropping statement on the label prior to using the product.

Harness Plus 7E and Surpass 6.4EC are two products that contain the same active ingredient called acetachlor plus different crop safening agents and may be labeled for field, silage, and popcorn by the 1994 use season. Acetachlor is a chloroacetamide herbicide in the same family as Dual, Lasso, and Frontier. Monsanto will be marketing Harness Plus and Zeneca will market Surpass.

Acetachlor is applied pre-



# CORN TALK NEWS

PENNSYLVANIA MASTER CORN GROWERS ASSOC., INC.

plant or preemergence for annual grass control plus control or suppression of some broadleaf weeds. Acetachlor shows good control of pigweed species, fair control of lambsquarters, and suppression of common ragweed.

Tough 3.75EC was labeled for use in corn in spring of 1993, but few people had an opportunity to use it. The active ingredient in Tough is pyridate, a foliar applied contact-type herbicide (photosynthesis inhibitor).

Tough is applied at 1 to 2 pints/acre and is effective on lambsquarters, pigweed, and nutsedge and is rather weak on velvetleaf and either of the ragweed species. Typical applications are tank-mixed with atrazine to broaden the spectrum of control. Corn shows good tolerance to pyridate, so crop safety is of little concern.

## Herbicide-Resistant Crops

The interest in developing herbicide-resistant crops continues to grow. Several new corn hybrids are being released in 1994 with the IR/IT gene for imidazolinone resistance. At least three seed companies are marketing IR/IT hybrids including Pioneer, ICI Seeds, and Ciba/Funks. Some of these new varieties are probably better suited for the northeastern

growing conditions than previous ones. The primary areas where the IR/IT hybrids fit are:

- Where carryover concerns exist from the previous season's sulfonyleurea or imidazolinone herbicide.

- Where Pursuit herbicide is an appropriate choice for annual weed control (e.g. shattercane). Another reason may include greater freedom of insecticide choice.

STS soybeans (sulfonyleurea-tolerant) will be available on a wider scale in 1994 for use with certain sulfonyleurea herbicides that are already labeled for soybeans. As with the IR/IT corn hybrids, the newer soybean varieties may be better suited to northeastern conditions.

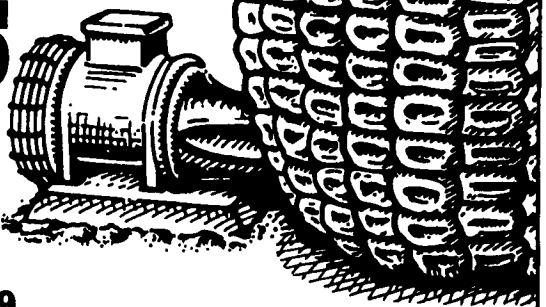
Several herbicide resistant crop areas to watch for include glyphosate or Roundup resistant soybeans which may be available as early as 1995, and glufosinate (ignite) and sethoxydim (Poast) resistant corn hybrids.

## Future Products (1995 Or Beyond)

Battalion 15 DG (MON12000) is a preplant or preemergence product from Monsanto being developed for use in corn. Battalion contains a sulfonyleurea herbicide plus a safening agent to help improve crop safety. It is effective on a

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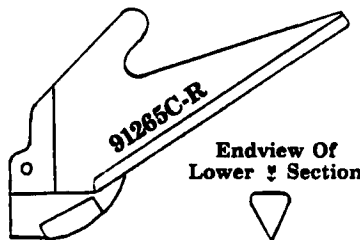
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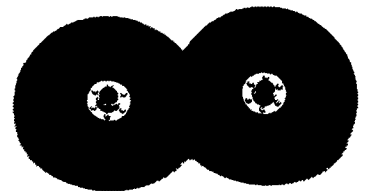
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| 91265C-R   | Tungsten Carbide      | \$22.65 |
| 1277777C1  | Std. Boot             | \$23.15 |
| 1277777C-R | Tungsten Carbide Boot | \$49.95 |

### PLANTER & DRILL DISK OPENERS (With Bearings)

- Case IH
- John Deere
- Krause
- Great Plains



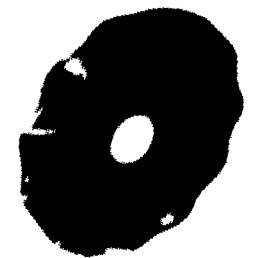
| PART #    | DESC.              | PRICE   |
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| 90851C92  | Disk               | \$19.95 |
| 603020R92 | Case IH Drill      | \$14.49 |
| 1344911C1 | Case IH Drill      | \$17.99 |
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