

RESEARCH UPDATE

(Continued from Page 24)

and provides postemergence control of velvetleaf, pigweed, ragweed, and nutsedge. Permit, as well as other sulfonylureas, will generally be used in combination with non-ALS inhibitor herbicides to increase weed resistance. Also, with the sulfonylureas, remember to include an appropriate adjuvant.

- **Harness Xtra 5.6L** contains a higher amount of atrazine and less acetochlor than **Harness Xtra 6L**. Both products will be marketed; however, the 5.6L formulation mainly will be used in the Midwest.

- **Laddok S-12** is a new formulation, which contains higher rates of bentazon and atrazine (2.5 lb each). It replaces **Laddok 3.33L**.

- **Shotgun**, a premix herbicide from UAP, contains atrazine (2.25 pounds) and 2,4-D (1 pound). Apply to #8S tall corn. Controls several grasses and broadleaves.

- **Sethoxydim Resistant (SR)/ Poast Compatible** corn became available in summer 1995. Poast and Poast Plus now can be broadcast over the corn. Apply Poast Plus at 1.5 pint/acre plus appropriate adjuvant when weeds are within labeled height. This will supply good control of annual grasses as a total *post* program or to pick up *escapes*. Seed will be available from Asgrow, DeKalb, Cargill, and other seed companies.

- **Soybeans**
Label changes and new products:

- With the introduction of Roundup Ready soybeans in 1995, Roundup Ultra may be applied as an over-the-top application. These soybeans will be used most effectively when drill planted and where there is low to moderate weed problems or certain perennial species. Apply 24 to 48 ounces/acre (<64 ounces/acre total). These soybeans can be sprayed

with Roundup from cracking through the full flowering stage. Split or sequential application may be needed. There will be a \$5 premium charged per unit and yields are expected to be competitive. Asgrow will be the initial supplier with other companies following.

- FMC will market a micro-encapsulated formulation of Command (Command 3ME). (Still pending approval by EPA.) This will be applied as a preemergence (not PPI) treatment, and will significantly reduce the risk of damage to off target vegetation. Command provides good control of velvetleaf, lambsquarters, jimsonweed, foxtails, and panicum.

- DuPont has several premix products of chlorimuron (Classic) + thifensulfuron (Pinnacle) — **Concert 25DF** (1:1 mix) is available for use on *normal* soybeans. **Reliance STS** (2:1 mix) provides good annual broadleaf weed control.

- **Synchrony STS** (3:1 mix) will be available as three formulations: a 42 percent DF bulk product that is applied at

1/2 ounce/acre; and in 25 percent and 42 percent premeasured soluble packets (SP). Synchrony has better activity on some harder-to-control weeds. Each packet will treat four acres. Reliance and Synchrony are labeled for use on STS soybeans varieties only. This mixture provides good control of velvetleaf, lambsquarters, pigweed, smartweed, and cocklebur.

- **Conclude** from BASF is a total *post* herbicide that includes the active ingredients of Storm and Poast. It will control both broadleaves and grasses and will be available in returnable *closed systems* or jugs.

Future Products

- **Action (CGA248757)** from Ciba is a postemergence, contact-type herbicide that provides excellent control of velvetleaf, but also has activity on some other broadleaves. Action will be tank mixed with a variety of other products to increase the weed spectrum. Action will have an Experimental Use Per-

mit (EUP) for 1996 and should be marketed by 1997.

- **Authority 75DF** or 4F (sulfentrazone) is a preemergence broadleaf herbicide for soybeans being developed by FMC. It is active on several broadleaves including lambsquarters, pigweed, morningglory, nightshade, jimsonweed, and nutsedge. It will require tank mixing to improve control of grasses and common ragweed. Authority will have an EUP in 1996, with expected label registration by 1997.

- **Axiom 68DF** (thiaflumide + Sencor) is a pre-applied product from Bayer that will be used in corn and soybeans. Thiaflumide is one of the most active members from the chloroacetamide family (Dual, Lasso etc.), and is applied at low use rates (0.5 lb/acre). Axiom will control foxtail, crabgrass, barnyardgrass, panicum, and several annual broadleaves.

- **Chart 75WDG (CGA277476)** is a sulfonylurea herbicide from Ciba being

tested for post-emergence weed control in soybeans. Broadleaves will be the main target of Chart; however, some grasses and nutsedge will be suppressed. Chart is short-lived in the soil and should not interfere with crop rotations. Ciba will have an EUP for 1996 and hopes to have it labeled by 1997.

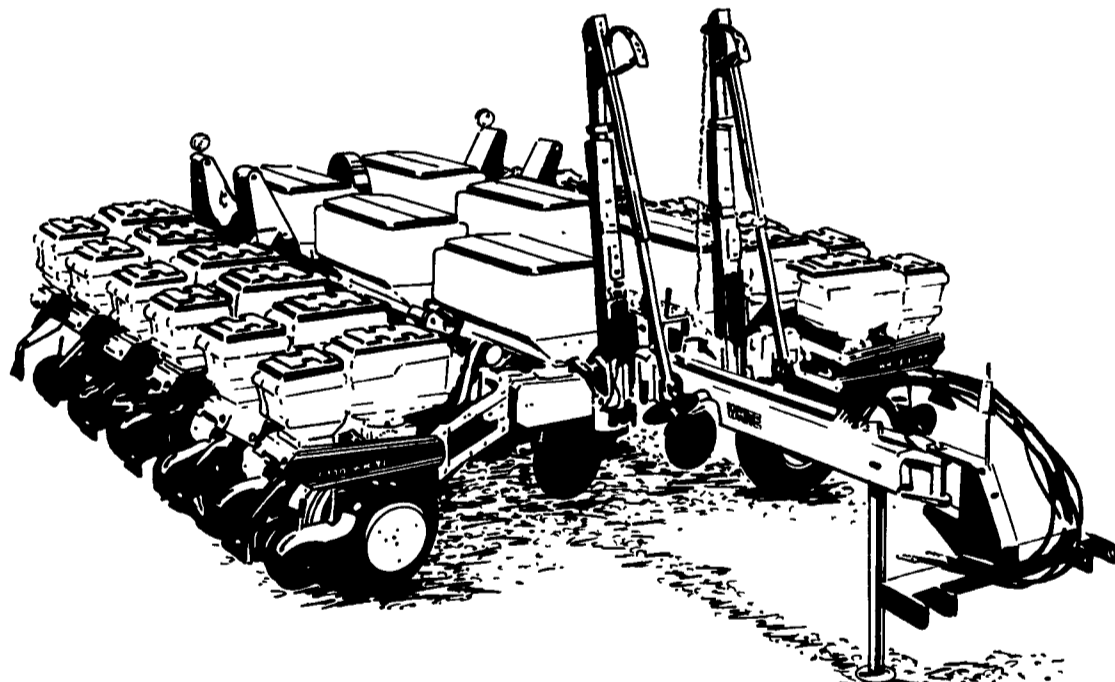
- **Balance (isoxaf-lutole — EXP31130A)** from Rhone Poulenc provides broadleaf and grass control PRE in corn. It controls a wide number of weed species, including velvetleaf, lambsquarters, pigweed, common ragweed, smartweed, and nightshade, as well as some grasses. It will have an EUP in 1996 and should be marketed in 1997.

- **FirstRate 8 4 W D G** (cloransulam-methyl) is a product being developed by DowE-lanco for use in soybeans. It is a broadleaf herbicide that controls lambsquarters, pigweed, velvetleaf, ragweeds, and morningglory when applied either PRE or POST. FirstRate is another ALS inhibiting herbicide, so resistance management must be considered. It is anticipated to be marketed by 1998.

- **Liberty (glufosinate)**, formally known as Ignite, is a broad spectrum herbicide (RRoundup/Gramoxone-likeS) being developed by AgrEvo for use on Liberty Link corn and

(Turn to Page 30)

Accurate, Precise Single Seed Placement



Accurate seed spacing and precise depth increase yield potential.

- Time-proven positive air metering system and edge drop seed discs gently singulate seeds to eliminate wasteful doubles.
- The short 18" seed drop makes seed spacing accurate.
- Consistent seed depth is assured through our independently operating walking beam gauge wheels...adjust in 1/8" increments.
- Low air pressure gently handles fragile seed coat.
- Fewer moving parts reduce maintenance and downtime.
- No-till attachments give you flexibility to plant in all residual levels.
- Interchangeable seed discs available for soybeans, corn, sweet corn, popcorn, sorghum, milo, acid delinted cotton, sugar beets and others.
- Ask about competitive financing plans through Agricredit Acceptance Company.

See Your
AGCO White
Dealer Listed Below.

Delaware

Georgetown
Baxter Farms

Maryland

Dayton
J.D. Mullinix
Lineboro
Wertz Farm Equipment

Pennsylvania

Airville
Farmers Equipment & Supply
Bechtelsville
Miller Equipment

Bethel

Zimmerman's Farm Service

Carlisle

Carlisle Farm Service

Dover

George N. Gross
Greencastle
Meyers Implements
Greensburg

J & M Machinery

Klingerstown

Stanley's Farm Service

Lebanon

Umbergers of Fontana

Manheim

G & D Farm Equipment

Mifflinburg

B, S & B Repair

New Bethlehem

Hetrick Farm Supply

Oakland Mills

Peoples Sales & Service

Somerset

Lincoln Supply



WHITE