

Corn Talk News

RESEARCH UPDATE



CORN TALK NEWS

PENNSYLVANIA MASTER CORN GROWERS ASSOC., INC.

NEW HERBICIDE PRODUCT UPDATE

William S. Curran
Assistant Professor
Weed Science
Penn State

There have been a number of major label changes or new formulations that corn and soybean growers should be aware of this year.

I have summarized the important points on each below. Always be sure to consult the label before applying any of these products.

Cyanazine products (Bladex, Extrazine, and Cycle) will contain new "best management practice" guidelines for ground and surface water protection. The changes are similar to what atrazine went through in 1993. The following is an overview of the major changes.

Rate restrictions:

- a. Do not apply more than 6.5 pounds total cyanazine per acre per year to any land area.
- b. On highly erodible land (HEL), if plant residues are less than 30 percent, do not apply more than 3 pounds total cyanazine per acre per year.

Setback and buffer zones:

- a. Do not mix, load, rinse, or wash within 50 feet of any well unless specific safeguards are in place (see a label for specific requirements).
- b. Do not apply aerially or by ground within 66 feet of the points where field surface

water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes or reservoirs. The setback or buffer must be planted to a crop or seeded with grass or other suitable crop on HEL.

Bicep II is a formulation of Bicep (atrazine plus metolachlor) that contains a safening agent to increase corn protection. This product may not be widely marketed in the Northeast.

Buctril Gel is a gel encapsulated formulation of bromoxynil (Buctril) that increases user and environmental safety.

Concert SP is a water dispersible granule containing 12.5 percent chlorimuron (Classic) plus 12.5 percent thifensulfuron (Pinnacle). The DuPont product will be sold as 2-ounce soluble packs treating four acres each. This product is labeled for use in soybeans.

Dual II is a formulation of metolachlor that contains a safening agent to increase corn protection. This product may or may not be widely marketed in the Northeast.

Frontier 7.5L is labeled for corn and should be labeled for use in soybeans by the 1994 season. Frontier (dimethenamid) is similar to Dual or Lasso in weed control activity, but is used at about 60 percent of the equivalent metolachlor active ingredient (Dual) rate. Use rates for soybeans should be similar to those used in corn.

Guardman 5E is a new pre-

mixture from Sandoz that contains 2.33 pounds dimethenamid (Frontier) plus 2.67 pounds atrazine. The use rate is 2.5 to 5 pints per acre. This product is labeled for use in corn.

Harmony Extra 75DF (thifensulfuron plus tribenuron) may be applied early preplant (at least 45 days ahead of planting) to increase knock-down activity in front of corn or soybeans. Harmony Extra would typically be tank-mixed with Roundup or other systemic herbicides for increased activity on problem perennial weeds such as wild garlic, briars, and dock species.

Pentagon 60DG is a 60 percent active pan granulated formulation of pendimethalin (Prowl) from American Cyanamid labeled for use in corn and soybeans.

Sencor DF received a 2(ee) label for a reduced rate application for control of common and mouseear chickweed, red deadnettle, henbit, and Virginia pepperweed in established alfalfa. The rate is 1/2 to 1-1/2 pounds of 75DF per acre. Sencor is marketed by Miles Inc. of Kansas City, Mo.

Synchrony STS is a water dispersible granule containing three parts chlorimuron to one part thifensulfuron. This DuPont product is targeted for use with STS (sulfonyleurea-tolerant) soybean varieties.



Vanquish 4S is a diglycolamine salt (DGA) formulation of dicamba that is now labeled for use on grass pastures. The reduced vapor pressure characteristics of Vanquish may be promoted as a means of reducing the vapor drift potential of dicamba.

Chlorimuron Premixes. Dupont markets several different formulations of soybean herbicides that contain the active ingredient chlorimuron (Classic). These products contain either linuron (Lorox) or metribuzin (Lexone) in addition to the chlorimuron component.

In order to avoid some of the confusion, here's a quick overview of these chlorimuron premix formulations:

- Canopy 75DG — 6:1 metribuzin/chlorimuron used at 4 to 8 ounces/acre 10-month corn and alfalfa.
- Preview 75DG — 10:1 metribuzin/chlorimuron used at

5 to 8 ounces/acre.

- Gemini 60DG — 12:1 linuron/chlorimuron used at 8 to 16 ounces/acre.

- Lorox Plus 60DG — 18:1 linuron/chlorimuron used at 12 to 16 ounces/acre.

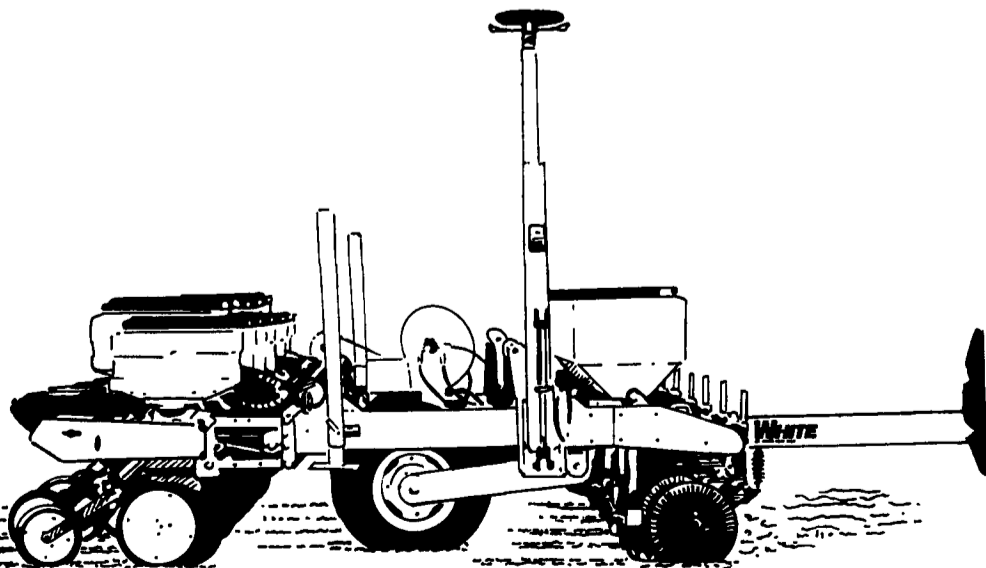
Canopy and Preview are better suited for the finer-textured soils (>2 percent organic matter) whereas because of the linuron, Gemini and Lorox Plus are typically used on the coarser-textured soil areas. Linuron is more easily tied up to clay and organic matter. Canopy and Preview are slightly broader in spectrum than Gemini or Lorox Plus and probably require less rainfall for mobilization. However, because they contain a triazine, Canopy and Preview may be weaker on triazine-resistant weeds, especially lambsquarters. In addition, recrop restrictions can differ slightly with the four products as shown in the following table:

Table 1. Recrop restrictions in months for chlorimuron premixes for soils with a pH less than 6.8. Higher pH soils may require an increased waiting period for safe recrop.

Herbicide	Alfalfa	Clover	Corn	Sorghum
Canopy	10	12	10	12
Preview	10	12	10	12
Gemini	10	12	10	10
Lorox Plus	18?	12	10	10

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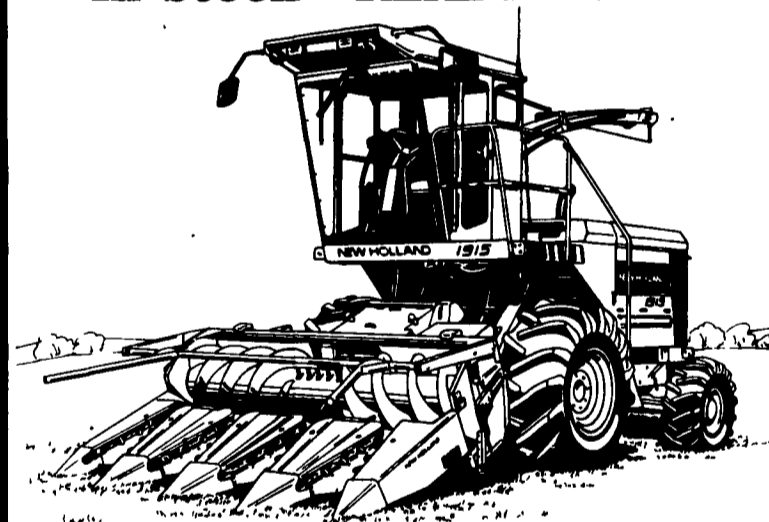
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