

Corn Talk News

RESEARCH UPDATE



CORN TALK NEWS

PENNSYLVANIA MASTER CORN GROWERS ASSOC., INC.

WHAT'S NEW FOR AGRONOMIC WEED CONTROL IN 1996

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The new year has brought us a number of herbicide label changes and new products that are available for weed control in corn, soybeans, and alfalfa.

Several new products are on the horizon. We've tried to summarize some of the highlights of these changes below.

Corn

Label changes and new products:

- Accent SP can now be applied to food-grade corn hybrids (high lysine, white, and waxy). The rotational interval for soybeans has been changed from 10 months to 15 days. Also, the worker restricted entry interval (REI) has been reduced from 12 hours to four hours. Several new tank mix partners may be added to the label. Accent may be applied broadcast to corn up to 24S tall (free-standing) or that exhibits six or fewer collars. However, application to 3 to 4 leaf corn provides the best safety.

- Basis 75DF (rim-sulfuron + thifensulfuron (Pinnacle)) is a combination annual grass and broadleaf herbicide. This DuPont product is applied early POST, up to 6S tall corn or before the third collar is visible. Since rimsulfuron is similar to Accent, this product is good on 1-2S tall barnyard-grass, foxtails, and panicum. Basis also controls smartweed, pigweed, lambsquarters, and velvetleaf that are 1-3S tall. Basis had a few relatively minor label changes from 1995; however, others are awaiting EPA

approval. Label changes pending include tank mixing with atrazine, Marksman, and others for a broader spectrum of weed control and resistance management. Others include raising the minimum application rate to 15

gallon per acre and applying Basis prior to the fully emerged third collar of corn.

- Exceed 57WDG (prosulfuron + primisulfuron (Beacon)), developed by Ciba, is applied at 1 ounce product/acre (previously 0.88 ounce product/acre). It will be marketed as 5 x 4 ounce water-soluble packets that will treat 20 acres. It is applied postemergence and is good on most annual broadleaves including, velvetleaf, pigweed, lambsquarters, and smartweed. Exceed is currently the most effective *post* herbicide for bur cucumber control in corn.

- Roundup Ultra from Monsanto is a 4-pound ai/gallon product that already contains the needed additives. Roundup Ultra will be utilized where reg-

ular Roundup was previously used.

- Broadstrike (flumetsulam) soil-applied products injured corn in some fields during 1995. Most injury occurred in soils with cool wet conditions, high pH, low organic matter content, or after soybean herbicides carried over. According to the labels, Broadstrike + Dual 7.67L and Broadstrike Plus 0.86WSP (flumetsulam + clopyralid (Stinger)) can not be applied to soils with a pH greater than 7.8 and/or less than 1.5 percent organic matter in corn. Also, corn should be planted at least 1.5 inches deep and after average soil temperature is above 50 F. Injury still can be difficult to predict, so Penn State does not recommend soil-applied Broadstrike products

for early season corn when environmental conditions can favor injury. The use of IMI corn can provide an *insurance policy* for Broadstrike injury.

- Scorpion III, from DowE-lanco, is a postemergence product for corn that contains flumetsulam, clopyralid, and 2,4-D. Scorpion III will be applied early *post* (<8S corn) and is effective on a wide spectrum of broadleaf weeds, including Canada thistle. A herbicide for grasses will need to be included in the program. Broadstrike injury to corn is not an issue with this product; however, early application to corn is necessary for maximum 2,4-D safety.

- Permit 75DG, (halosulfuron) is marketed by Monsanto

(Turn to Page 25)



FORCE 1.5G Protects Your Crop, Is Safe For The Environment

Here's what Northeast growers are saying about FORCE:

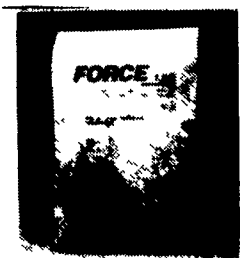


Clarence Keener, Jr.
Manheim, PA

FORCE® 1.5G is the #1 dealer-recommended soil insecticide in the Northeast. FORCE offers outstanding protection against a *broad spectrum* of soil-borne insect pests, including Northern and Western corn rootworms, cutworm and wireworm.

Other benefits include:

- ▲ Low toxicity to mammals and birds
- ▲ No impact on earthworm populations
- ▲ Compatibility with Accent, Beacon and Broadstrike herbicides and other post-applied herbicides.
- ▲ Less leaching potential than other soil insecticides



"We enter state and national Corn Grower Association yield contests every year — so protecting our crop from insect pests is important to us. Two of our entries in '95 were 197 and 202 bushels per acre



"We've used FORCE for the past three years on 100 acres of corn. It has worked well at controlling rootworms. We haven't seen any in all the time that we've used it.

"The safety of FORCE is a consideration. Other products such as Furadan can kill birds. FORCE doesn't.

"I also like the fact that using FORCE doesn't restrict our

post herbicide applications. Lambsquarters, velvetleaf and pigweed are the problem broadleaves on our farm. We sometimes have problems with foxtails, fall panicum and other grasses.



"At times, we've had to go in with a tankmix of Accent, Banvel and atrazine for a rescue treatment. With FORCE, we've got the freedom to use any post product that's needed — without worrying about the insecticide interacting with the herbicide."



Consistent Performance You Can Trust

FORCE 1.5G has received excellent rootworm ratings from Cornell University.

Cornell Four-Year Average Rootworm Trials		
T-Band Treatment	Rate/1000	4 Year Average
FORCE 1.5G	8	2.39
Counter 15G	8	2.68
Lorsban 15G	8	2.89
Untreated checks		4.25

Average trials completed at both the Tully and Freeville locations (1992-1995). Rates are expressed as oz. product per 1000 row feet.



With FORCE insecticide, you can control the rootworms that cause this damage.

For more information, contact your local Zeneca dealer, or call Zeneca at 1-800-759-2500.

ZENECA Ag Products

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