

## Livestock Notes

### Sale Directory

A suggestion was made at the annual Northumberland County Sheep and Wool Growers Banquet that cooperative extension and the association develop a directory listing the addresses and phone numbers of people who would like to list their breeds of sheep, club lambs, freezer lambs, or sheep products (wool, yarns, supplies, fencing co. etc.) that they may have available for sale.

The directory would be updated every two years and would be distributed to area businesses and advertisers. For this first year listings are available for \$2 each for members of the Northumberland County Sheep and Wool Growers Association. Listings for others (sheep dog breeders, sheep and wool products, fencing businesses, etc. who are not members) will be available for \$5 to cover the publication costs.

Anyone who is not a member and wants to make a listing or wants more information may call Dave Bailey at the extension office (717) 644-4455.

### Accent and Beacon in 1991

Accent and Beacon are two new sulfonylurea herbicides registered in 1990 for use in field corn.

They are applied post-emergence and have excellent activity on members of the sorghum family such as shattercane and johnsongrass. In addition, Accent has good activity on annual grasses such as foxtail and Beacon is strong on a number of broadleaf weeds.

Several label changes have occurred for Beacon in 1991. Per-

manent changes include:

- Do not use Beacon on sweet corn or popcorn.

- Do not use Beacon and Counter the same season.

- For other organophosphate (OP) insecticides (AAsar, Dyfonate, Lorsban, or Timet) applied at time of corn planting, temporary injury may occur following Beacon application. Do not use a foliar OP 10 days before or after Beacon.

- Aerial applications of Beacon are not allowed.

- Include nonionic surfactant (NIS) or crop oil concentrate (COC) with applications. May include liquid fertilizer (28 percent or 34 percent UAN) if desired. Do not use liquid fertilizer as the spray carrier.

- May tank-mix Beacon with Banvel, Buctril, or 2,4-D to broaden the weed control spectrum. Use NIS, not COC or UAN if tank-mixed.

- Do not tank-mix with any other pesticides than listed above.

- A potentially important weed in Pennsylvania added to the label: Burcucumber.

### Farm Management Agent Appointed

Luther B. Smith has been appointed associate extension agent with cooperative extension effective December 10, 1990.

As multi-county Farm Management Agent, Luther will be housed in Lebanon County and will work also with the extension staff and clientele in Dauphin and Berks Counties.

Luther was born and raised in East Greenville, Montgomery County, Pennsylvania. While attending high school, he worked on a 50-cow dairy farm where he was involved in all aspects of the farm, from animal care and milking to field work. He developed an appreciation for the many different "hats" a farmer must wear in operating a farm.

LUTHER graduated from Iowa State University with a B.S. degree in farm operation. This course of study was broad in nature, including agronomy, animal sciences, ag mechanization, economics and farm management.

Following graduation from Iowa State, he moved to Missouri and managed a farrow-to-finish hog operation. The operation was unique in that breeding, gestation and farrowing was conducted in open pastures. The nursery unit and finishing unit were contained housing.

### Accent and Beacon Rotational Crop Restrictions

Crop	Accent	mo.	Beacon
Alfalfa	12		8
Barley	10		8
Wheat	10		3
Oats	10		8
Sweet or Popcorn	10		8
Soybeans	10		8
Others	10 at pH<6.5 18 at pH>6.5		18

After returning to Pennsylvania, he worked for Pennfield Corporation in the feed marketing division as a dairy feed salesman managing a sales territory in the State College area, specifically Centre, Mifflin, Clinton, Snyder and Union counties. He later transferred to a new sales territory which included Berks, Montgomery, Bucks, Lehigh, western New Jersey and the northeastern corner of Lancaster counties. During this time, he developed a better understanding of the agricultural industry both from a farmer/producer view and an agri-business viewpoint.

Deciding to pursue a master's degree in business administration (MBS), he left full-time employment in August of 1989 to finish his master's degree on a full-time basis at York College of Pennsylvania. He was graduated in December of 1990.

### Revised Penn State Extension Manure Analysis Program

Manure analysis has been established as an important tool in developing effective manure man-

agement programs for farms in Pennsylvania.

Results of nine years of manure analysis has indicated that using book values or average values for manure nutrient content may be off by up to 100 percent on any individual farm.

Thus, it is critical that individual manure samples be analyzed on each farm if manure management is going to be optimized for maximum economic benefits for the farmer and minimum impact on the environment.

To help facilitate the use of manure analysis over the last nine years, Penn State Cooperative Extension made arrangements with a private lab to do the analysis and make manure mailing containers available through the county extension offices. This program has been quite successful and Penn State has led the way in increasing the interest in manure analysis.

As a result, other labs are now in the manure analysis business and the time has come to expand the program.

## Research Boosts Soybean Protein

ST. LOUIS, Mo. — For years, farmers' demands for higher yields have encouraged breeders to squeeze more bushels out of new varieties. That extra output, however, has come partly at the expense of reduced protein.

But this negative protein and yield relationship may soon be a thing of the past. Joseph Burton, a plant geneticist at a USDA Agricultural Research Service unit at Raleigh, North Carolina, has developed a bean with a 3.4 percent higher protein level that also has recorded good yields. This increase, from a little over 42 percent protein to 46 percent translates to a possible \$1.00 to \$1.50 per bushel in extra revenue, Burton said.

"Currently there's no soybean meal surplus and the market can use all the protein produced from soybeans. There's a real need for this variety," the scientist said.

Burton developed the bean

through a technique called restricted index selection, which allowed him to uncouple genetically-paired protein and yield traits.

"The advantage of this system is it maintains genetic diversity for yielding ability in the offspring and maintains a constant protein level," Burton said. "Offspring are then used in a more conventional pedigree breeding method to develop a pure line or variety as quickly as possible."

ASA staff vice president for research, Keith Smith, said "Dr. Burton's development and the impact it could have is very exciting. The varieties that may result could help us regain export markets we've lost abroad in recent years. That would increase soybean farmers profit opportunities and that's why we've strongly supported this effort through checkoff investments."

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