

## Wayne feed announces new worming product for dairy cattle

CHICAGO, Ill. — Wayne Fresh 'N Worm, a combination wormer and nutritional product fed to dairy cows on the day of freshening, has been introduced in a new, improved formula by the Wayne Feed Division of Allied Mills, Inc.

Tests from 2,000 dairy cow herds in all areas of the U.S. have proven that over 94% of all dairy herds are infected with worms. Even though the herd does not look sick, the worms are there, says Dr. Gary Hartnell, Dairy

Research Specialist with Wayne Feeds' Research and Development Center.

"The worms are nematodes or roundworms that live in the abomasum and small intestine," Hartnell notes. "Once the calf or cow has consumed the infective larvae from its surroundings, the larvae or immature stages most often burrow into the lining of the gut."

These worms may affect the host animals in the following ways:

1. By damaging or consuming the cow's gut lining and thus reducing its absorptive capability for nutrients.
2. By absorbing nutrients that the cow could use for growth, maintenance reproduction, or milk production.
3. By sucking the cow's blood. Some species can suck off as much as a pint in a few days.
4. By blocking secretion of digestive juices.
5. By causing wounds through which other kinds of pathogenic organisms may enter into the cow's bloodstream.

and heifers to produce higher weight gains.

The active worming agent in the product is thiabendazole, proven effective in controlling the five major species of gastrointestinal round worms. At the same time, the product has been improved for palatability and in the nutritional support it provides for the cow's rapid recovery from calving:

—Complete vitamins and mineral fortification, including B-complex vitamins and minerals in the highly available chelated and inorganic form.

—Propylene glycol to help alleviate low blood glucose levels generally common in ketotic cows.

—Protein, energy and fiber to help meet the cow's nutritional needs.

Worming programs are increasingly beneficial to dairymen as average milk production rises, explains Dr. Gary Hartnell, Wayne Feeds' manager of dairy research. For example, a cow's production can be cut by 3-4% if she is laden with internal parasites.

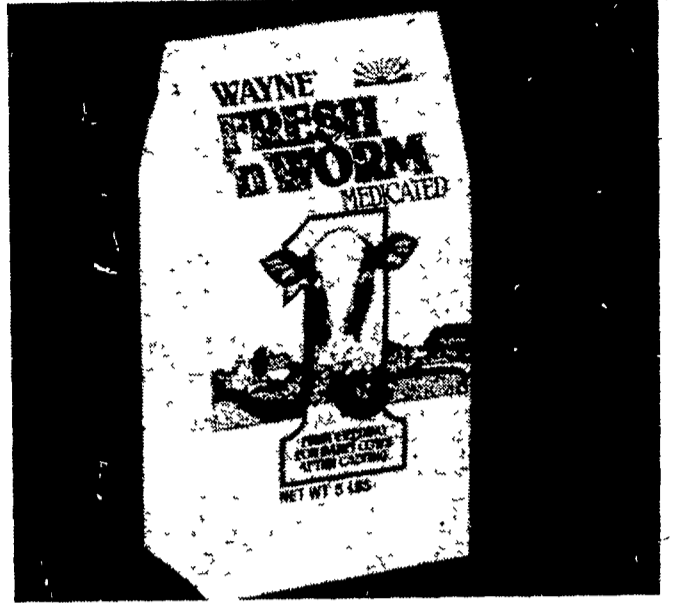
That means milk production from a cow producing more than 13,000 lbs. of milk could be reduced over 400 lbs., he said. At \$12.50 a hundredweight, it's \$56 per lactation, or \$2,800 for a 50-cow herd.

Hartnell cited research which shows deworming on the day of freshening is very

"As if that were not enough, the adult female worm lays eggs, depending on species, at rates up to 10,000 eggs per day," Hartnell says. "The eggs are excreted in the manure which may land in the barnyard, on water tanks, feed bunks, other cows, stanchions and fences. Later on, the eggs hatch into larvae which are consumed as the animal licks herself and the surroundings."

Wayne Fresh 'N Worm comes in a 5 lb. size that is ready for use in the right amount for one meal. The package size eliminates measuring, waste and staleness. It is available in two forms — Krums and Pellets.

The product is also effective in worming calves



effective. Studies in six dairy areas and 75 herds indicated that the extra milk production ranged from 423 to 1,075 lbs. per cow per lactation. The average fell

between 500 and 750 lbs. Worming on the first day of lactation will result in greater returns compared to worming later on in lactation, Hartnell added.



## Penn State slates horticulture show

STATE COLLEGE — Within a few short weeks horticulture students of Penn State will convert two huge circus tents into a landscape wonderland. Saturday and Sunday, September 27 and 28, the flower gardens of the University Park campus will be the site for this year's 67th annual Horticulture Show.

The show will open on Saturday with the dedication at 10 a.m. and will run until 9 p.m., continuing on Sunday, September 28, from 10 a.m. to 4 p.m.

"Horticulture, Yesterday's Seeds Growing Today" is this year's theme — in honor of Penn State's 125th anniversary. Planned and built by students interested in horticulture, the event will represent all areas of horticulture — ornamentals, floriculture, fruits, and vegetables — and will depict the evolution of horticulture from the 1800's to the present.

Visitors will walk through an introduction area into an old fashioned garden, and then proceed to a patio garden. Walking next into a

house, visitors will see home canning exhibits — which lead to a vegetable garden.

Featured beyond the home area will be an exhibit of hydroponics (growing plants in nutrient solution). The next area will present a "new fashioned" garden. This will be followed by a display from Pi Alpha Xi, the honorary floriculture and ornamental horticulture society.

A sales area will be located at the walk's end where visitors will be able to buy fresh apple cider. A variety of plants will be on sale, including a large selection of indoor plants, foliage plants, hanging baskets, African violets, gloxinias, and many more. A selection of spring flowering bulbs to be planted in the fall will also be available.

At the conclusion of the show, after 4 p.m. September 28, all plant material in the displays will be sold.

As always this 67th annual Horticulture Show will be free to the public, Saturday and Sunday, September 27 and 28.

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