

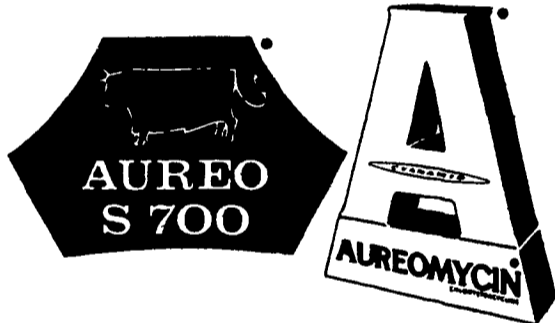


During the Horse Club Recognition Banquet, several members were honored for having had perfect attendance throughout the years. Receiving citations were (front row from left): Jim Glick, Bareville, Cherrie Gochnauer, Centerville Rd., Brian Ressler, Elizabethtown; Dave Good,

Elizabethtown; Tiera Ressler, Elizabethtown; (Back row) Randy Glick, Bareville, Margaret Keeney, Manheim; Kevin Chafin, Elizabethtown; Dwayne Weaver, Elizabethtown; Dennis Ressler, Elizabethtown and Alan Ressler, Elizabethtown.

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4-H Participation Increased in 1974

Participation in all aspects of the 4-H program are up this year it was announced in Chicago recently by Dean Vaughan, national 4-H leader, Extension Service, U.S. Department of Agriculture. The highlights include: 4-H club membership grew from 2,248,276 in 1973 to 2,284,769 this year. 4-H special interest group enrollment rose to 1,458,057 as compared with 1,094,405 in '73, and young people involved in Instructional 4-H TV more than doubled - 2,570,342 contrasted with 1,024,043 the previous year. Total for the youth phase of the Expanded Nutrition Program is expected to meet the 893,723 figure from 1973. This would bring the '74 total 4-H participation to more than 7 million, or about a 2 million increase over 1973. Total 4-H participation has more than doubled since 1970.

Young people participating in 4-H camping activities is also on the upswing this year. Both 4-H members and other youth numbering 434,078 attended 4-H day and overnight camps across the country - up 36,000.

To demonstrate the appeal 4-H has, to young people, wherever they live, participation in 4-H clubs and Special Interest groups increased in each of the following areas in 1974: farm, 936,378 over 927,617; towns under 10,000 and open country, 1,592,276 over 1,385,289; towns 10,000-50,000, 568,678 over 538,854; Suburbs, 357,274 over 212,468 and central cities 388,220 over 278,453.

More volunteers are also working in 4-H leadership. Adult volunteers totaled 342,189 compared to 322,153 last year, and teen leaders totaled 152,464 compared to

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Hormones in Feed Kill Flies

Two new, synthetic hormones offer promise of controlling flies more effectively than any similar materials tested, according to experiments reported recently by a U.S. Department of Agriculture (USDA) scientist.

Dr. Richard W. Miller, an animal scientist of USDA's Agricultural Research Service (ARS), Beltsville, Md., described tests with a number of insect hormone mimics incorporated in the feed of dairy cows and chickens, at the annual meeting of the Entomological Society of America.

Normally, flies lay their eggs in manure and the immature insects develop to maturity there. The immature stages are difficult to kill because they burrow within the manure, and thus are protected from direct contact with conventional insecticides.

The synthetic hormones pass through the animals' and birds' digestive systems into the droppings. "The experimental hormones permeate the manure," Dr. Miller said. "The two most effective hormones killed 100 percent of the flies. These results were obtained with the four most important species of flies: Face, horn, house, and stable flies."

Dr. Meyer Schwarz, an ARS chemist at Beltsville, synthesized the hormones used in these tests. The most effective hormone is derived from terpene chemicals, used commercially in perfumes. Therefore it would be expected to be less expensive

than other synthetic hormones that require more complicated manufacturing processes.

These chemicals appear to be readily degradable and therefore no adverse effects on the health of humans, livestock, or wild animals is anticipated. No undesirable effects have been observed on cows or chickens used in the experiments. However, additional research is necessary to provide the data needed on residues, if any, in milk, meat and eggs.

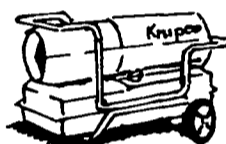
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