

## Clover awards presented in Bucks County

DOYLESTOWN - The presentation of the Bucks County 4-H Clover Awards highlighted the Awards Night of Bucks County 4-H on October 13, 1979. One hundred fifty persons were in attendance at Gayman Elementary School, Danboro.

Clover Award winners, who were recognized for outstanding 4-H achievement, included: Janine Fountain, 15, Edgewood 4-H Club; Charlene Gormley, 16, Wrightstown 4-H Club; Bonnie Hottle, 15, Whichway 4-H Club and Barbara

Milnor, 16, Ottsville 4-H Club. The Clover Award winners received pewter plates donated by the Bucks County 4-H Development Fund.

Blue Ribbon Club Achievement Awards were presented to the following clubs: Springtown, Mrs. Betty Jane Rick, leader; Spurs 'N Burrs, Mr. and Mrs. Clarence Hottle, leaders; Unami, Mr. & Mrs. Walter Wurster, leaders and Whichway, Miss Debbie Hottle, leader. These awards were based on community service, club activities and project completions. Ott-

sville, Mrs. Mary Lou Fenn and Mrs. Anne Fallon, leaders; and Wrightstown, Mrs. Eleanor Goll, leader, received Red Ribbon Club awards.

Teen Leader Awards for outstanding work with younger 4-H members were given to Michael Pellecchia, Richboro; Paula Scheetz, Hilltown; Karen Fink, Unami; Sharon Raab, Buckingham; Tom Wurster, Unami and Debbie Smith, Richboro.

Recognized for helping with the 4-H dog program for twelve years, was Mrs. Alma Arnold, Quakertown.

Arnold was presented with a silver bowl by the Bucks County 4-H Council. Arnold teaches 4-H members dog obedience and handling classes.

Janice Buckman, Unami 4-H was presented with a pin for the outstanding club secretary book. The Unami club also won the 4-H scrapbook competition with honors going to Wendy Worthington.

Receiving special 4-H mugs in recognition of their last year in 4-H Club work were: Harold Benner, Springtown; Janice Buckman, Unami; Roseann

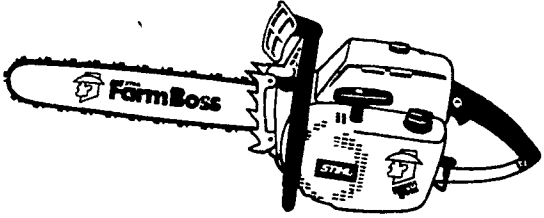
Greenberg, Wrightstown; Toni Hoelper, Wrightstown; Joanne Langhans, Double Trouble; Bruce Sames, Unami; Paula Scheetz, Hilltown; Esther Sokol, Buckingham Valley; Virginia Walton, Danboro; Cynthia Worthington, Unami; John David Worthington, Unami; Lisa Schorr, Buckingham.

Adult volunteer leaders were honored for their years of service to the 4-H Club program. Recognized for five years were: Ernest Beatty, Richboro, Sally Gormley, Wrightstown; Ella Kirk, Double Trouble; Diane

Ash, South Horse and Pony; Jean and Ralph Anderson, Richboro. Leaders for 15 years were: Herman M. Bishop; Earl Hunsberger, Danboro; Mary and J. Henry Myers, Danboro. Leader for 20 years was: Florence Cook, Carversville. Leaders for 25 years: Eugenia Howes, Wrightstown; Margaret Freed, Danboro.

Entertainment for the evening was a magician, Earl Arrowood, Jr. of Doylestown. Installation of County Council Officers was the conclusion of the program.

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## Cool stored grain before winter

NEWARK, Del. - With another corn record yield and a projected record soybean harvest in Delaware again this year, a lot of grain will be going into storage. And as farmers continue to increase their on-farm storage capabilities, there is concern about how well this grain holds up in storage.

According to University of Delaware extension agricultural engineer Tom Williams, grain that is dried to a safe moisture level and relatively clean before being placed in storage and that has proper aeration in storage will keep safely for extended periods of time with proper management.

Corn that is to be sold by spring should be dried to 14.5 percent before going into the bin. Corn that will be held into the summer or longer should be dried to 13 percent moisture. Small grains also should not be stored above 13 percent moisture.

Since soybeans contain oil, they have to be stored at lower moisture—14 percent or below for short-term storage and 11 percent for storage into summer.

After grain is placed in storage, it should be kept cool with aeration. Aeration is a process of keeping dry grain at nearly the same temperature as the outside air to prevent moisture migration in the bin. During aeration a small amount of air—one-tenth to one-fifth cfm (cubic feet per minute) per bushel - is continuously pulled down through the grain and exhausted at the bottom of the storage bin to equalize temperatures in the grain mass.

Proper aeration reduces the risk of stored grain going out of condition from moisture migration, mold growth, and insect infestation. Aeration, however, will not protect grain that is not dried to a

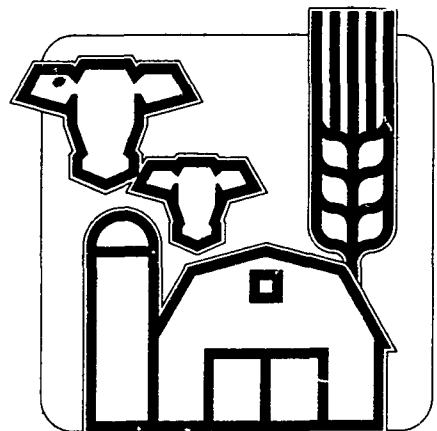
safe level before being stored, cautions Williams.

Dried grain placed in storage in the fall should be cooled down to 46 degrees Fahrenheit by winter. Begin cooling warm grain as soon as it goes into storage. Run the aeration fans continuously until the grain temperature is down to 70 degrees F. in September. The grain temperature can be checked by holding a thermometer in the exhaust air stream. This is also a good place to smell the grain condition. Musty odors indicate spoilage.

An air flow of 1/10 cfm per bushel will take about a week of continuous running to change the grain temperature. One cfm per bushel will take 15 hours of continuous running to change the grain temperature.

Continue to cool the grain into winter. Cool to 60 degrees F. by the end of October, 50 degrees F. by the end of November, and 40 degrees F. by the end of December. Then maintain the 40 degree F. temperature through March. Do not operate fans for extended periods when the outside temperature is below 30 degrees F. or the grain may freeze. Frozen grain can cause problems in the spring.

After the grain is cooled down to the recommended average monthly temperature, check its condition once a week by running the fans for about 20 minutes. This permits you to check the temperature, smell for signs of spoilage, and bring fresh air into the bin. It is best to do this when the relative humidity is below 75 percent.



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