search veterinarian in USDA's sketchy. ·Agricultural Research Service. mys that study findings imply healthy birds raised in isolafeeders, waterers, house sur- from infected birds. All ex- of polluted water in rural health authorities reported

Shows Value Of is, Marek's disease is a cancer free from the disease. Tests to cool pasteurized water for Tested also in a milkhouse, one like infection; it attacks the with swabs of saliva trans-dunking or other uses where 50-gallon heater proved adenervous, system, viscera, eyes, ferred from infected to healthy muscles, and skin — causing birds showed that this route of Marek's disease, an acute more poultry losses than any infection also is possible.

ens in droppings and saliva, a Before the And study, cold appear in the saliva, a ducted at the Regional Poul- from infected to healthy chick-Dr. Richard L. Witter, a re- about the disease's spread was are continuing.

In one of a series of trials, Pasteurizer Purifies that farmers should take spe- tion units were placed on litcial care to disinfect or sanitize ters exposed to droppings

Before the ARS study, con- spot in the cycle of infection try Research Laboratory, East ens. Studies on this and other Lansing, Mich., knowledge effective methods of control

Water For Rural Use

feeders, waterers, house sur-from infected birds. All ex-faces and equipment which can posed birds contracted the disharbor droppings and saliva ease. On the other hand, birds

Penn State University have developed an electric pasteurizer capable of purifying water used by an average family of five persons. This development

More farmers each

Of polluted water in rural thealth authorities reported that about half of the individual all water supplies tested each year were found to be polluted. Cost of pasteurizing water for use by two adults and three children amounted to solve the pollutant alone would either pollutant alone would the persons. This development the pollutant alone would ease the pollutant ease that about half of the individual water supplies tested each year were found to be polluted. Cost of pasteurizing water for use by two adults and the pollutants are pollutants. was described by Mark D. less than \$3 per month. Shaw, of the agricultural enlumbus, Ohio

Shaw said the new pasteuriz-

that water does not leave the operated satisfactorily.

Work in developing the pasteurizer commonly used today was begun in 1961, Shaw point. Air Pollutants Combine Helping to solve the problem ed out, when Pennsylvania To Cause Crop Damage five persons. This development three children amounted to

ination systems.

Improvement Seminar in Co-more than adequate to heat pendently on leaf tissue. ing system uses conventional of five persons, including laun- some of the air-pollutant damelectric water heaters to heat dry, bathing, and toilets Only age to plants that occurs in the and store pasteurized water. A tering the lawn and similar recorded levels of ozone and heat the income the income of the air-pollutant damped to heat exchanger is used to pre-

hot water is not needed. A quate where a minimum of control system makes certain water was used. Both systems

Lancaster Farming, Saturday, December 3, 1966—13

unit until it has been at the Addressing members of the pasteurizing temperature of American Society of Agricul-145 degrees Fahrenheit for 30 tural Engineers in 13 agencies minutes. The process is auto- and organizations. Professor matic, he added, and elimin- Shaw said work is underway ates the need for careful to have the pasteurizer manumaintenance essential in chlor-factured and placed on the market.

and pasteurize all of the wa- Results of their test, the ter used indoors by the family scientists say, may explain heat the incoming water and purposes was not pasteurized sulfur dioxide alone are not high enough to cause damage.

siologist H. A. Menser and plant pathologist H E Hegge-Two, conventional 80-gallon stad, disproves the theory that gineering department, during electric water heaters were the two pollutants act indea Farmstead Water Quality electric water heaters were the two pollutants act indea

Sudfud dioxide is largely a

product of fuel combustion for power and heating. Concentrations tend to be highest in fall, winter and spring. Ozone is one of a class of air pollutants called oxidants, or photo-chemical smog, formed by the reaction of sunlight on exhaust from motor vehicles. Levels of oxidants are generally highest during summer. Both ozone and sulfur dio-

vegetable, field, and ornamental plants. The pollutants reduce leaf quality of crops such as tobacco and spinach, and cut yield of crops such as cereal grains, grapes, beans, and citrus fruit They damage tree leaves and hinder development of ornamentals.

Nitrate Poisoning Can Be Prevented

Nitrate poisoning can be prevented The prime concern with drought-affected corn is getting it into the silo when it is in the best condition; then nitrate toxicity can be dealt with Nitrogen buildup occurs in fast growing plants when they are suddenly interrupted in their growth due to (Continued on Page 16)

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FRIDAY, DECEMBER 9, 1966

Night Sale 8 P.M.

Consignment of Phillip Gilgore, New Park, Pa. complete dairy herd of 20 Holstein cattle — 4 first calf heifers, 16 mature cows, 5 close springers, 4 recently fresh, balance in full flow of milk.

Consignment of Kemp Sheppard, Bel Air, Md. Complete dairy herd of 29 cows of which 8 are recently fresh, 6 close

springers, balance in full flow of milk. Charles Dixon of Stewartstown, Pa., will sell one load of fresh cows

Donald Perry of Darlington, Md., will sell one load of

There will be 15 top fresh and springing cows from Dela-

All cattle are T.B. Accredited and Certified Bangs Free, Calfhood Vaccinated and tested within 30 days of sale for out of state shipments.

MANAGER'S NOTE: There will be other consignments of top cows and large first calf heifers. Majority of cattle will be fresh or close springing at sale time. This is a good group of cattle. Plan to attend this sale if you need additional cattle or replacements.

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