

When cows stop the beam of this "electric eye" (see arrow) they pass through a curtain of spray. This device provided effective contiol of horn, stable and horse flies in tests in 1956 by Dr. Tien-hsi Cheng at the Pennsylvania State University Agricultural Experiment Station. The livestock spray used contained pyrethrins and a fly iepellant mixed according to manufacturer's directions. Pressure was provided by a small motor and pump. To decrease costs, this fly (sprayer could be connected to a tractor-driven weed sprayer

## Modern Water Storage Displayed At World's Conservation Exposition

a firsthand view of modern on . the-farm storage of our most valuable natural resource-wateras they tour the site of the 1957 World's Conservation Exposition and Plowing Contests here September 17 18, 19 and 20

Among the many conservation attractions on the 2,500 - acie site, just north of Peebles, are seven farm ponds S1x were specially built to show visitors how water can best be stored and used on the farm Livestock watering tanks also will be on exhibition

of surface, are ted both by illustrate good fish pond managesprings, and by runoff from sur- ment for faimeis and spoitsmen | enemy shipping destroyed

PEEBLES, Ohio — Visitors, rounding area of crop and wood-from all over the world will get | land As a part of the complete land As a part of the complete drainage system planned for the 16-farm area, these ponds supplement such control measures as drainage ditches, tile lines, terraces, contour strips, sod waterways and rotation cropping They also illustrate how farm

ponds can provide flood control water supply for livestock and irrigation, fire control, and in some cases furnish drinking water-or at least raise the

water level in nearby wells The rolling land of Adams County provides ideal situations for farm ponds to act as basins Those ponds, ranging in size for water draining in from sur-to more than an acre and a half rounding slopes The ponds also

## State Issues Warning Bulletin **On Wild Cherry**

HARRISBURG - Reports of catle killed from eating wilted wild black cherry leaves today prompted the State Department of Agriculture to warn farmers of the danger

According to deputy Secretary L H Bull, reports of losses are scattered Death is caused by hydiocyanic acid, more commonly known as prussic acid, which develops in wilted leaves of wild cherry and sometimes choke cheiry

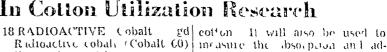
He attributed the immediate causes to cuiting or spraying wild cherry in pasture fence rows, along power lines and highways where the wilted leaves are eaten by cattle Effects of huiricane Audrey also contributed to the danger when branches and leaves were torn from tres, blown into pasture fields and allowed to wilt

Prussic acid is not found in any dangerous quantity in heal thy growing plants, Bull explain ed

To avoid trouble, he said farm ers should use care in removing all wild cherry cuttings, also sprouts killed by spraying for plants pest control, so that cattle cannot reach them

The poison developed through wilting may kill an animal within a few minutes or several hours at most Symptoms include depression and paralysis, colic, stuper, difficult breathing and frequent convulsions

Dollar for dollar and man for on Complising only 16 per cent of the Navy's Wold War II percountry's most economical weapsonnel, the submarine service accounted for 55 per cent of all



tions into new uses for cotton der verying conditions and other crops Future research ment says

Dr Jett C Aithur, Ji, oi USDA's Southern Utilization Re search a ndDevelopment Division in New Orleans is in charge of Farmers Need Not Stop the new research project He has been specially trained and licens ed by the Atomic Energy Com mission to use radioactive mater-, ials A two-ounce supply of Cobalt 60 has recently been received by Dr Arthui's group It is one of the largest single supplies

of this material outside of the AEC installation at Oak Ridge, Tenn Cotion is the first commodity

scheduled for radiation study. In the past few years, agricultural researchers have made much progress toward increasing the demand for cotton through physical and chemical modification of cotton cellulose The scientists believe that Cobalt 60 will now provide them with a faster and more accurate means of determining how various modifications affect the chemical reactivity and physical properties of

**Grain Feeding** man, the submarine is this Needs Adjustment

> Now that most cows have been on full pasture feeding for two or three weeks Associate County Agent Hrry Sloat says adjustments can be made in grain feeding He recominends a grain mixture containing 10 to 12 per cent crude protein when cows have plenty of good quality pasture to graze By early July, when for age becomes more mature and less abundant, 12 to 14 per cent mixture may be necessary

> In each case, the lower protein level is suggested with laigely legume pasture, while the higher protein recommendation applies to forage that is principally grass When small grains, like sudan or millet are grazed, they should be considered grasses

Amounts of grain fed can also be reduced when a large amount of good quality pasture is available Grain to milk ratios of 1 4 to 16 should be more common for small and large breeds respectively When the forage is more mature and scarce larger amounts of grain may be required Feed enough grain to keep cows in "working" flesh. High producing cows can not be expected to get their nutrient needs satisfied on pasture alone Some cows frequently lose considerable flesh during the early pasteure season, so they need extra grain later to maintain milk flow When cows on good pasture refuse to eat all of their grain allowance it is especially importtant to use a high energy grain mix A high fiber feed is often low in energy and is actually a "hotter" feed than a heavy grain, mixture. Such bulky and low energy feerstuffs as wheat bran and brewer's dried grains are not well adapted for use in summer feeding.

### Radioactive Cobalt Being Used In Cotton Utilization Research gd cotton. It will also be used to

will soon be used by scentists of hesion of cotton dyes and to obthe U.S. Department of Agricul tain other information about the ture to speed up them investiga [ behavior of the cotton fiber un-

Reduction research is also plancalls also for radiation treat- ned on cottonseed products and ments to help create useful new lituits and vegetibles, and scienproducts from pine gum, tung tists see possibilities for creating oil, and castor oil, the Depart-i new materials from other radiation treated faim produced substances

## Work for Social Security

Many faimers, unlike the selfemployed man in town, will no doubt continue to live on their farms after they start getting social security benefits

Social Security Administration officials remind that the law does not require such farmers to stop all work in order to get payments They may, if they wish, work part time or throughtout the year and get some or all their monthly social security benefits

If they earn \$1200 a year, or less, they get payments for each month, but if they work all 12 months of the year and have earnings in excess of \$1,200, they will lose one or more monthly pryments

More specifically, a retired former will get a payment for each wonth in which he neither cains \$80 working for someone else, noi does substancial work on his own fum He will not be considered to have done "sub-stancial work" it he repairs his own house, for example, or taises vegetables, livestock, or poultry for home consumption

Under some arrangements, the SSA officials say, rental income faimers get count as eatnings for social security purposes



A Third Reason Why Pullets Pick

Lack of exercise and not enough to do encourage can-nibalism in laying pullets Heavy laying pullets have lots of energy, lots of 71p and this liveliness has to be work-ed off one way or another One reason poultrymen who feed their pullets on crumbles in-stead of mash have trouble with picking is that the pul-lets can fill up on the crumbles with picking is that the pul-lets can fill up on the crumbles so quickly that they have lots of time on their hands they dont know what to do with it I, therefore, suggest that for layers you feed your laying ration in mash form because it takes birds several times as long to get their fill with mash as with crumbles or pellets as with crumbles or pellets





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#### Ice Cream, Turkey Plentiful in July

Ice cream and turkey are featured on the plentiful foods list for July and they will receive extra promotion from the USDA. Emphasis on ice cream will be given during the week beginning July 7, turkey during the weeks beginning June 30 and July 21.

Other items on the plentiful foods list will be peaches and summer vegetables during the weeks beginning July 14 and 28 respectively.

Lemons, limes, frozen strawberries, milk and dairy products, eggs, fresh fish, peanut butter and fats and oils are also listed.

I suggest that you not feed more than 4 lbs of fleshing pellets or supplemental pellets per hundred birds per day If you feed higher levels of pellets the birds are full for a number of hours and are more likely to pick

Scratch grain should be fed in the litter which encourages everuse and the birds really like to scratch (scratching in the litter also helps to keep their feet cleaner and give you cleaner egged cleaner eggs)

I believe, but I am not sure, all mash rations usually cause more picking than when you feed a laying mash plus scraich grain Pullets appre-ciate the diversion they get if you feed scraich in the litter Pullets do not have maga-rines, radios or television Try to give them a little variety of activity The more personal attention you give the birds the better they will lay for you

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