J.S.D.A. Tries rridiation Dn Corn Borers

Research entomologists ncouraged by successful era- males. ication and control of the hrough the mass release of untreated females. ies made sterile by radiation

Although corn borer damage

Iowa, in cooperation with the percent. Towa Agricultural Experiment

Adult male corn borers were treatment, the younger pupae melon fly.

sterilized by doses of 32,000 roentgens of X-rays applied one day after emergence.

At this dosage level, only 1 percent or less of the eggs were mated with untreated fe-

crewworm and melon fly ce skully with normal males for ture feels, to take off the mask

are investigating this tac- long as untreated males, sug- cious year-round drink for rules for producing better cidic as a potential weapon ag- gesting that their survival in many occasions. inst another serious agricul- the field might compare favorural pest, the European corn ably with that of natural breakfast, according to Delmar browns. They probably will

However, there was an in- the department's Bureau n recent years has taken a dication that sterile males of Foods and Chemistry. onsistent downward trend, it the European corn borer might till is substantial enough to not be as successful as sterile being more susceptible to ir- tion of quality eider for yearteen this pest high on the male screwworms in competing radiation. And while the fer- round marketing. ist of agriculture's insect en- with normal males. For ex-tility of both sexes decreased mies. Last year corn borer ample, when sterile corn borer namages were estimated at \$94 males outnumbered untreated female pupae were affected apples, 8.9 per cent of the males 2 to 1, about 40 per- more. USDA insect experts, J. R. cent of the eggs resulting from Walker and T. A. Brindley matings with untreated feconducted irradiation tests, us- males hatched. However, in ing X-rays on laboratory pop- experiments involving the ulations, at the Corn Borer Re- screwworm, the same ratio remearch Laboratory Ankeny, duced the legg hatch to 35

Tests were also run on the hours old. Station. After irradiation, the breeding performance of corn corn borers were placed into borers irradiated as pupae. egg-laying cages for study. These showed that the percenentomologists - found tage of egg hatch varied with the age of pupae at time of

Good Cider Is All-Year Drink

hatched when the sterile males Hallowe'en traditionally go together.

Sterile males competed suc- vania Department of Agricul- or spicy hot." and reveal cider for what is Sterile males lived about as really it, or can be — a deli- ia's cider industry. Twelve

> A particular occasion is K. Myers, acting director of

cent — when pupae under 24 gallons of juice or cider, de- mer Degree in 1959. hours old were irradiated with 'pending on the variety. 5,000 roentgens. This problem

Lancaster Farming, Saturday, September 7, 1963-7

HARRISBURG - Cider and juice, tasty and healthful," Myers said. Myers said. "And it adds variety to the morning menu for it But it's time, the Pennsyl- can be served cool and sweet,

Steps already have been taken to expand Pennsylvaner and apple juice have been drawn up as a guide tor apple become requirements of a cider mill sanitation program that may be introduced next year, Myers said. The object, he explained, is to encourage produc-

Pennsylvania growers last as radiation dosage increased, year used 835,000 bushels of crop, for making apple juice, Deformities were a problem older and-vinegar. A bushel of reaching a rate of 50 per-apples will yield 2½ to 3½

Cider and apple juice are was remedied by withholding very much alike, but cider treatment until pupae were 48 may contain very fine particles of the fruit that import a dis-The scientists used X-rays tinctive, tangy flavor, while as the source of radiation for apple juice is clarified by filthese studies, rather than the tering. Approved preservatives cobalt-60 treatment employed or pasteurization will prevent Farm Women 4 against the screwworm and the fermentation and maintain cider in its-sweet, natural state.

"Cider fortified with vita- Only tirm, clean apples are min C is an ideal breakfast used for making quality cider,

Manheim H.S.

(Continued from Page 1) Township H. S. in Lacawana County prior to going to Mans-

At Mansfield Hess saw 36 of his students receive the Keystone Farmer degree, and tour of them went on to become American Farmers in the FFA.

Mansfield, one of the oldest Vocational Agriculture departments in the state, being oiganized in 1914, received top award five times in state dairy project competition under Hess' guidance.

He was awarded the Honorary Keystone Farmer degree in 1949, and received the coveted Honorary American Far-

Hess plans to move his wife to Manheim in the near future. His daughter is married and teaching school in a Philadelphia suberb, and his two sons are students of theology at out of state seminaries.

See Collection Of Buttons

Interesting stories about button collections was a feature of the recent meeting of Farm Women Society 4 in the home of Mrs. Marie Nissley, Salun-

The president Mrs. Daniel Will opened the meeting Devotions were led by Mrs Ira Frantz Roll call was answered with "An interesting experience that I had last week"

Miss Debra McFarland played a piano solo for the group Mrs. Henry Hiestand, a member of both the Farm Women Society 4 and the Red Rose Button Club, presented a program on buttons, telling stories about numerous buttons in her collection of 22,000

The next meeting of the group will be held Sept 28 at the home of Mrs Ira Neff, 2146 Columbia Ave, Lancaster At that time a book review will be presented by Mrs. Lloyd Nolt.



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