

● **Reflections** TEN YEARS AGO (Continued from Page 6)

realized from the Lancaster County Poultry Association's barbecue, according to preliminary figures reported by chair-

man Lew Mortonsen Tuesday (July 9).

Among improvements listed for next year's barbecue, Mortonsen suggested changing from electric appliances to all gas, and expanding the cooking con-

test. In addition to Mortonsen, barbecue committee members included Jay Greider, Walter Aierstuck, Mark Myer, and Mrs. Clara Kopf.

● **\$Million Rain Ends Drought**
— Rains that soaked most of the state Tuesday (July 23) considerably eased the drought conditions in the area.

Described as a "multi-million dollar rainfall", the first substantial rain of the month may have come at a crucial time for many county crops.

● **Tobacco Price and Use Drop**
— According to the latest Tobacco Situation report from the USDA, domestic use of cigar filler and binder tobacco in 1956-57 is down.

Acreage planted this year is expected to stay about the same for Type 41 tobacco, but Ohio types may be off as much as 7½ percent.

Prices for 1956 Pennsylvania filler leaf averaged 24 cents, one-half cent below the preceding year.

The report also shows that the state's farmers grossed \$11 million from tobacco last year, 15 percent of the total state farm income; gross in the 1955 crop year was \$13 million.

● **LF Adds Egg Quotation**
— Starting with this issue (July 19), Lancaster Farming offers a new service to its readers.

The Urner-Barry New York Egg Quotation will appear weekly on the market pages. The Philadelphia egg report now carried will be continued for the time being.

● **Wheat Harvest Underway**
— Wheat harvest in the Garden Spot is well underway, it was observed this week (July 12).

With test weights and yields running higher this year, one producer went so far as to say this looked like a real vintage year for wheat.

● **Leukosis** (Continued from Page 4)

discovered that the causative agent could be spread from infected to healthy chickens in droppings and saliva. But the identity of the agent remained unknown, despite repeated attempts at laboratory culture by scientists at ARS's Regional Poultry Research Laboratory, East Lansing, Mich.

Success finally came when ARS microbiologist Dr. John J. Solomon and co-workers used cultures of duck embryo cells seeded with blood from chickens infected with Marek's disease. Previous, unsuccessful studies were tied on cultures prepared from chicken tissues.

Solomon found that the culture of infected duck embryo cells developed colonies of altered cells, evidence that the disease agent was present. Chickens injected with infected cells came down with Marek's disease while those injected with uninfected cells did not.

When Nazarian examined a culture of infected cells under an electron microscope, he found particles that looked like herpes virus. The herpes virus group infect the nucleus of cells, and under experimental conditions have not been infectious outside of cells, probably because the viruses lack an outer coat. This finding may explain why scientists have been unable to transmit the Marek's disease agent from one bird to another without transmitting whole cells from an infected bird to an uninfected bird.

By contrast, lymphoid leukosis viruses infect cell areas outside the nucleus, and they

NEW FUNGICIDE CLEARED
Clearance was recently granted for a new fungicide, Dithane M-45, manufactured by the Rohm and Haas Company of Philadelphia.

The U.S. Department of Agriculture clearances permit a broader use of the fungicide to include potato seed pieces and rice seeds.

In addition, the frequency with which Dithane M-45 may be applied in the control of gray leaf spot on tomatoes has been increased to two applications per week at a maximum rate of three pounds per acre.

For control of Fusarium seed-piece decay the company recommends whole or cut potato tubers should be dipped in 1¼ pounds of Dithane M-45 per 50 gallons of water. For dry treatment, Dithane M-45-based dusts are available from local suppliers, the spokesman said.

A broad-spectrum fungicide, Dithane M-45 reportedly effectively controls major diseases on such crops as potatoes, tomatoes, onions, carrots, celery, sugarbeets, corn, cereal crops, apples and grapes.

can be isolated outside of the cells they infect.

Scientists at the Houghton Poultry Research Station, Houghton, England, announced their independent identification of Marek's disease virus at the same AVMA meeting. They grew the virus in a culture of chick kidney cells, unlike the East Lansing group's procedure.

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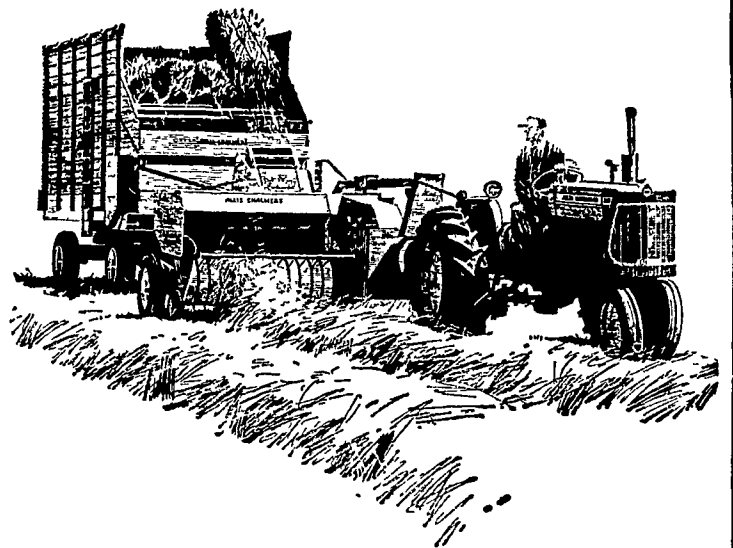
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