

## Frey, Stoltzfus Cows Cited For 1/2-Ton Fat Levels

An official production record exceeding a half ton of butterfat has been completed by Fultonway Lucifer Joan, a Registered Holstein cow owned by J. Mowery Frey & Son, Lancaster. This is the second time that Fultonway Lucifer Joan has achieved the 1,000 lb. butterfat production level in a single lactation.

Joan's official record of production totalled 27,800 lbs. of milk, 1,118 lbs. butterfat and 2,354 lbs. solids-not-fat in 365 days. She started her lactation at the age of 8 years and 11 months and was milked two times daily.

Solids-not-fat (SNF), the nutrients in milk below the creamline, are now being recorded in addition to milk and butterfat, as a part of the Holstein Association's Total Nutrient Testing (TNT) program and provides information useful as a management tool in herd improvement.

Fultonway Lucifer Joan was bred in the Frey herd. She was sired by Lauxmont Admiral Lucifer, a Gold Medal Sire.

Another local dairyman, Andrew D Stoltzfus of Elverson, had two Registered Holstein cows completing yearly production records exceeding a half ton of butterfat in the official production testing programs.

Caernarvon Greenwood Ellen has achieved the 1,000 lb butterfat production level in a single lactation for the fourth time. Her official 345-day record of production totalled 23,917 lbs. of milk, 1,107 lbs. of butterfat and 2,110 lbs. of solids-not-fat. She started her lactation at the age of 12 years 2 months and was sired by Greenwoodmaster, a bull that has earned Gold Medal Sire recognition.

Completing her first yearly

## New Treatment Of Seed Stops Barley Smut

A big stride has been taken in the fight to control loose smut in barley, according to the Pennsylvania Department of Agriculture.

Hot water treatment of seed production record or over 1,000 lbs. of butterfat is Caernarvon Pearl Darlene. Her official 365-day record totalled 25,018 lbs. of milk, 1,016 lbs. butterfat and 2,137 lbs. of solids-not-fat. "Darlene" started her testing period at the age of 6 years 5 months and was sired by Caernarvon Star.

Both "Ellen" and "Darlene" were milked twice daily and bred in the Stoltzfus herd.

— a tricky technique that requires almost perfect temperature control — is proving highly effective in checking the spread of smut, State Agriculture Secretary Leland H. Bull said.

The disease, when uncontrolled, seriously reduces yield by causing plants to produce heads with no grain. It is spread by wind-borne spores that settle on blossoms and impregnate grain as it develops. Infected grain, if used for seed the following season, produces plants with black smutty heads in which no grain develops.

The infection can be eliminated by treating seed with hot water, but the process requires precise control of time and temperature. Spore will survive if the water is not hot enough or the treatment time too short. If the

water is too hot, or the treatment too long, the seed itself may be damaged.

Only one seed distributor in the state, the Pennsylvania Foundation Seed Cooperative at Jersey Shore, is using the hot water process for treating foundation barley seed, Bull said. Foundation seed is used by seedsmen to produce subsequent crops of registered or certified seed. Ten fields of foundation seed, totaling 118 acres, were

inspected this spring by William L. Yount, plant pathologist of the Agriculture Department's Bureau of Plant Industry. No evidence of loose smut was found in any field.

It was pointed out that since loose smut spores can be so easily spread by wind, barley seed that has been treated to kill the disease should not be planted near other barley that may be diseased.



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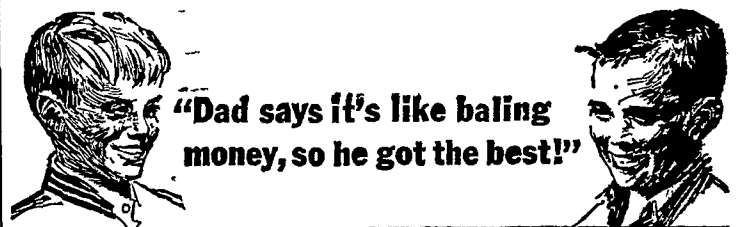
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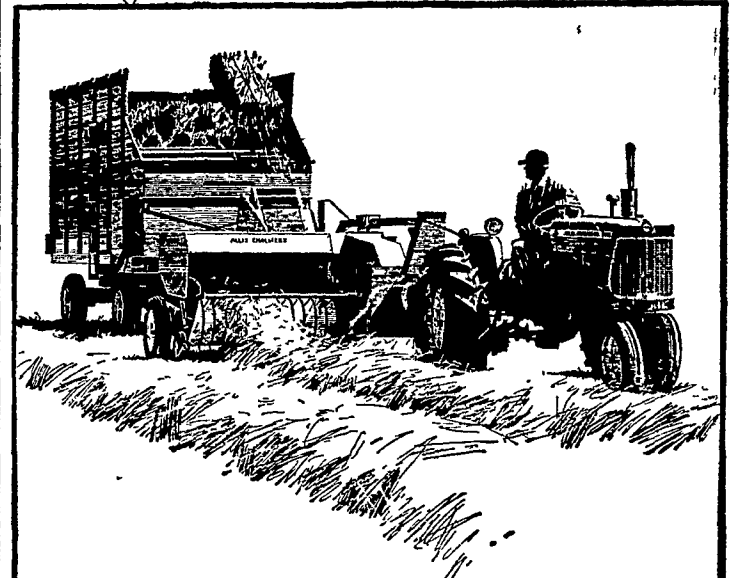
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