lar Heat Used Dry Crops

rmers may soon be ussolar-heated air for more tent and less expensiv drying.

n was dried better an by a solar-heated-ai m than by a convention heated-air system in inexperiments of Kansas USDA agricultural eners And fans of the solstallation used about 50 electricity. less y results are so promis-that studies will contin-

1 week, solar-heated reduced the moisture ent of 100 bushels of to 11 per cent-from 17 Similar corn was by unheated air to 12 moisture in the time, but portions of top layer still contained ercent moisture. While drying occurred in each m layer of corn, it was what greater in corn was dried by the solar d air. Both systems de-ed air continuously at 4 feet a minute.

I Lipper of the Kansas cultural Experiment Staand C P. Davis, Jr., of offer these preliminary rvations.

Need . . .



Lancaster Farming, Saturday, May 14, 1960-13

It appears that grain con-For Lean Hogs taining up to 18 percent moisture can be dried ade-

Selection is Effective Method

Four generations of selection for high and low fatness in Duroc hogs show a widening lean-to-fat ratio, indicating that selection based on backfat thickness continues to be highly effective in changing carcass composition. Backfat is measured by a lean-meter which makes use of the fact that fat tissues don't conduct electricity as well as lean tissues.

Backfat thickness in the Duroc foundation stock avbackfat thickness than in de- tions. creasing it.

Selection for high and backfat thickness, high-line low fatness has been carried Durocs continued to decrease through two generations in Yorkshire pigs, with backfat postweaning thickness averaging 1.26 in-This increased 5 percent to 132 inches in the second generation and declined 5 percent to 1.-20 inches in the second generation low-line pigs.

These studies are part of a eraged 1.49 inches. This in- long-range selective breeding bred for high backfat (high- The aim is to produce a ed had an average of only line). Selection in Durocs Similar investigations are sexes. has so far been somewhat underway at several State more effective in increasing agricultural experiment sta-

Systemic Spray **Controls** Grubs **On Cattle**

Manti. Utah- (April 19)-Ninety-nine percent control of cattle grubs, five months control of lice and improved wintering, summarizes the Utah Range Cattle Grub Control Project. These results were reported on the basis of a recent spot check of the 9,000 cattle involved.

Approximately half of the cattle were sprayed with a systemic grubicide, at the time they were brought in for the winter. At the same time, all of the cattle that wintered in the same areas were treated. The remainder of the cattle in the cooperating associations were left untreated.

A careful check in each creased about 21 percent to Agricultural Research Cen- herd of both the treated and 1.82 inches in the fourth ter, Beltsville, Md., in 1954. untreated cattle early in Apgeneration animals specially experiment begun at USDA's ril disclosed that those sprayline), and decreased about 17 meatier market hog and 19 grubs per 100 head. Check percent to 1.25 inches in pigs speed up the production of animals included cows, and bred for low backfat (low-high-quality breeding stock. calves and yearlings of both

In addition, none of the treated herds showed evidence of lice five months after treatment, while numer-Along with changes in ous lice were noten in several untreated herds. Several ranchers, whose herds were (Turn to page 14)

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flow is continuous or fans

are controlled to operate on-

ly when the relative humid-

ity is less than 85 per cent.

Where in-storage drying is

used, it is unlikely that any

profit can be made by in-

creasing the flow of solar-

heated air above that norm-

ally recommended for un-

heated air systems. A great-

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