#### Sales Up

(From page 2) dard steers \$22 50 - 25 rding to weight. Load lb standard grades, \$23. 1545 lb commercial s \$22 00, two loads 1150lb' utility steers \$21 50 22 50 Shipment choice prime 1004 lb heifers 75, highest price straight ers in loadlots since last

largely \$27 00 up, stan-to low-good he fers Two loads ed standard and good 905 Nebraskas, \$25 00 ew standard cows \$20 50-

Utility and commercows closed at \$17.50 - 0, mostly \$18 - 20. Late canners and cutters \$16ly canners as low as \$13 ity and commercial bulls ed at \$23 50 - 25.50. ood vealers \$29 - 32 Utiand standard \$20 - 29 is down to \$15 Two is good 500 - 575 lb mixsteer heifer stockers 25 - 28 Few head good k steer calves sold up to

## Insect Resistance To Flight Stress Tested

eign country land at our air- jet wings or inside the airports, the planes are inspect- craft in both heated and cold ed ins de and out Plant, sections material that may harbor inte bulk good and choice search the interior for largists W N Sullivan and eners \$25 50 - 28 25. Cho- vae, pupae, and adult stages tomology student E B Knipof pests dangerous to agriculture and public health the aircraft for egg masses of destructive insects And with insecticidal aerosols

But with the coming of the jet age, new quarantine 75 Few heavy Holstein problems arise Though high ers \$19 00 Few light or altitute may be fatal to in-

> 1075 lb feeding steers \$24 - 26 25, medium 1075 lb weights \$24-

When aircraft from a for- tality of insect hitchhikers on

Experiments have been sects is removed. Inspectors conducted by ARS entemololing in the laboratories at Beltsville, Md, and in actual They look at the wings of flight tests in co-operation the aircraft for egg masses with the US Navy Disease Vector Control Center, Jackthey treat infested aircraft sonville, Fla, the Naval Air Test Center, Patuxent River, Md, and the military Air Transport Service USAF

LABORATORY STUDIES altitute may be fatal to in- at Beltsville indicated that sects, high speeds cut the several species of insects transportation time. USDA were killed after one hour entomologists are conducting cil refrigeration at five degrees tests to determine the mor- to minus 22 degrees F. During tests at Jacksonville, \$32 Package high-good 765- yellow fever and common malaria mosquitoes, American and German roaches, rat fleas, and flies, died in

1.57c

0 29c

2.00c

190c

0 20c 86 02c unheated areas of "Fury" unable to stand as much fighter aircraft that flew over heat as man To determine 40 minutes at 40,000 feet

equipment, insects survived tric oven During flights at lower altiof laboratory-reared army- degrees F to kill all these worms were laid on alumin insects um foil and the foil taped on the wings of jets before ed inside a grounded C-47 had been killed Altitudes sun) reached 120 degrees F. were up to 40,000 feet with or higher Thus, many in-More experiments must be ed throughout the year made with other species of clusions can be reached

temperatures, too They're quarantine procedures

how much heat insects could Insects were also killed endure from friction in unwhen "Skywarrior" bomb- refrigerated sections of airers flew for three hours at craft in supersonic flight, 40,000 feet Outside temper- scientists conducted laboraatures in both instances var- tory tests to estimate the ned between minus 38 dethermal death point of sev-grees and minus 78 degrees eral species Insects were ex-F In some areas warmed by posed from 15 to 60 minutes radar and other electronic at 104 degrees F in an elec-

Northern house mosquitoes tudes, where temperatures and common malaria moare warmer, insects remain- squitoes showed 100 percent ed alive What other insects mortality at 133 degrees F will do under the same con- Yellow fever mosquitoes and citions and what various in- Mexican bean beetle larvae sects will do in other sec- were killed at 122 degrees tions of the plane is still not F and Mexican bean beetle known During inspection of adults, house flies, Japanese planes entering Miami (Fla) beetles, confused flour beet-International Airport, Phal-les, and American dog ticks eanidae egg masses occasion- at 131 degrees F. Grasshop-ally are found To determine pers and Colorado potato the effect of jet speeds and beetles were hardest to kill. altitudes on egg masses, eggs It took a temperature of 140

Temperatures were recordtakeoff at Patuxent When fuselage to simulate condithe aircraft returned, scien- tions in an un-insulated tists checked the eggs, us- jet plane On half the sumually the most difficult stage mer days the temperature into destroy, and found they side the plane (parked in the outside temperatures as low sects in uninsulated aircraft as minus 76 degrees F in the tropics would be kill-

These studies help us unegg masses before final con- derstand how air transportation may spread insect Laboratory tests showed pests and what safeguards that insects die at excessive must be provided through

# REPLACEMENT PULLETS

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In the late fall we completed the raising of 2888 pullet; at the Miller and Bushong Manor Farm.

RECORD OF GROWING PERIOD

Number of chicks started 2,888 (540 were heavy breeds) Number of pullets fit to be housed -2,715 (94 01% 144 days 148 (5 12%) 25 (0 87%) Mortality in growing Number of birds culled .173 (5 99%) Total mortality and Culls

GROWING COST PER PULLET (144 days)

Feed cost per pullet (bulk feed) (Feed consumption per pullet - 19 1 lbs 79 10c Litter cost 0 24c Grit Electric 0.72cGas for brooders

Medication ' Vaccination Newcastle (twice) Bronchitis (twice)

Chicken Pox

Insurance

Total cost per pullet (Excluding cost of chick and labor)

Costs slightly kigher than normal because a special medication was used in the feed for the first six weeks. This extra precaution was taken because forty-eight different strains were housed in one building.

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S. We have customers who do better than this. More about that

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