

New Livestock Genetics Lab Founded

A Pioneering Research Laboratory in Basic Animal Genetics has been set up in USDA. This newest of 1 laboratories set up by ARS for creative studies will be located in the Animal Husbandry Research Division.

Basic objectives will be to arrive at a clearer understanding of concepts of inheritance, gene behavior, and why and how mutations occur. There will be studies on effects of mating systems, selection for mating, and environmental factor on traits of animal offspring.

Quantitative studies will be conducted at the Population Genetics Research Institute at Purdue University, Lafayette, Ind. Chemical studies will be carried out at the Agricultural Research Center, Beltsville, Md.

Researchers at Purdue will use laboratory animals and insects (mice, fruit flies, flour beetles, and others) to work out experimental methods that can be applied in studying livestock genetics.

etics.

The aim is to learn how a gene acts morphologically and physiologically in producing a character.

It would expedite our research tremendously to know which livestock breeding systems are most likely to bring about improvements when any one type of gene behavior determines the variations which will be transmitted for a given character.

The group at Purdue under Wendell H. Kyle will also evaluate new selection methods and breeding systems. New mutations that may be produced will be investigated thoroughly and described by the research team.

Beltsville researchers will study chemical composition of genes and the chemical reactions involved in gene effects, hereditary transmissions, and related phenomena. A leader for this work hasn't been selected.

ARS is setting up pioneering research groups to explore un-

Hay Cattle Shades Out-Perform 34 Other Types

Of 35 materials tried as cattle shades, hay provided the most effective, according to Joseph H. Way, associate Chester County agent.

Among the materials studied by agricultural engineers in addition to hay, were aluminum, galvanized steel, plywood, asbestos board, plastics, neoprene coated nylon, woven saran, and

snow fencing. All materials tested were improved as shades by painting the upper side white and the lower black.

Bright new corrugated aluminum was used as a standard and other materials were compared with it as to effectiveness as a cattle shade. Of the 35 materials or treatments tested, 15 rated above aluminum and 19 below.

Slow fencing, with its large unshaded space between slats, rated lowest.

At least, Way says it's something to think about between now and next summer.

Store pillows in a clean, dust-free place with ample space. If pillows are too compressed, especially down and feather ones, they may never regain their original buoyancy. Store feather and down pillows in a moth-free place and spray well or pack with moth-preventive crystals.

LANCASTER FARMING
CLASSIFIED ADS
PAY

charted scientific horizons in search of new scientific facts and principles. Plans for creation of the laboratories began to shape up as far back as February 1957. The first charter was awarded in August that year for basic studies of mineral nutrition of plants. These Pioneering Research

Laboratories have also been chartered: Blood Antigen, Plant Physiology, Microbiological Chemistry, Seed Protein, Plant Fibers, Allergens in Agricultural Products, Cellular Metabolism, Insect Pathology, Insect Physiology, and Plant Enzymes.

USDA Announces Israeli PL 480 Pact

The U. S. Department of Agriculture today announced an agreement between the United States and Israel which provides for financing purchase of \$37,742,000 worth (including certain ocean transportation costs) of U. S. agricultural products under Title I of Public Law 480. Formal signing of the agreement will take place shortly.

Commodity composition of the agreement follows:

Feedgrains (approximately 350,000 metric tons) \$15,335,000, wheat (approximately 180,000 metric tons) \$11,256,000, Nonfat dried milk (approximately 7,000 metric tons) \$1,528,000, Vegetable oils (approximately 8,000 metric tons) \$2,381,000; Beans (approximately 2,000 metric tons) \$331,000, Cotton, upland (approximately 6,000 bales) \$990,000, Tobacco (approximately 120 metric tons) \$198,000, and Ocean transportation (estimated \$5,703,000).

The agreement provides that 25 per cent of the Israeli pounds received as payment for the commodity will be set aside for loans to United States and Israel private business firms. These loans will be made by the Export-Import Bank of Washington, Washington 25, D. C.

Sales under this program will be made by private U. S. traders.

MUSSER Leghorn Chicks

...for large white eggs of premium quality

"Direct from the Breeder"

Money-Makers plus Satisfaction



Phone Mt. Joy 3-4911
MOUNT JOY, PA.

Farm Tested... Farm Proved

THE NEW

Homelite

DIRECT DRIVE CHAIN SAW

719



Homelite's new 719 direct drive chain saw is helping farmers to get their woodlots into money the fast easy way. Cuts through 8" hardwood in 1-seconds. 18" softwood in 12 seconds. Falls trees up to 5 feet in diameter. Weighs only 19 pounds (less bar and chain). Straight blades plunge cut now. Built cutter at technicians. It, it too!

New 7-MONTH GUARANTEE

SNAVELY'S FARM SERVICE

New Holland
Ph EL 4-2214

SIMPLICITY
Garden Tractors
Snavely's Farm Service
New Holland EL 4-2214

COMPLETE DISPERSAL SALE

SHADE-WILLOW FARM
OF

40 Head Registered Holstein Cattle

Full Line of Farm Machinery and The Farm

TUESDAY, NOVEMBER 25, 1958

AT 10 00 O'CLOCK SHARP

Location—In Lebanon Co 5 miles northwest of Lebanon, Pa close to Mt Zion also close to the Mt Zion Mennonite Church 3 miles south of Route 22 turn south at the Hamlin road

23 COWS

AND

First Calf Heifers

most are fresh or close, a few cows due throughout the year. This is a fall dairy, DHI A Herd av the last 2 yrs 13,397 milk 515 fat

16—HEAD HEIFERS—16

Different ages, a few are Bred

HERD SIRE (Selling)

Past Gale 1291835, Born 12-1-56, Sire Pabst Cyclone, Dam Pabst Leader Roburke Star, 800 fat (not yet Official) her dam 3 yrs, 880 fat, this is a very good young sire

Three daughters of Supreme Pabst Johan:

Supreme Posch Johan, 8 yrs, 365 days, 19,385 milk, 761 fat

Moby Supreme Posch Ann, 365 days, 18,269 milk, 601 fat

Mable Totilla Supreme, 375 days, 14,979 milk, 544 fat

Two daughters of Hays Inspiration:

Strathaven Inspiration Jessie, 2 yrs, 365 days, 14,601 m 623 f 4%

Strathaven Christmas Della, 4 yrs 305 days, 15,520 m 623 fat 4.0%

Also Della Admiral Nobleman (Very Good) 4 yrs, 341 days, 15,014 milk, 537 fat 3.66%

A very good bred herd, in selecting this herd we spared no time or money to get the good ones, they have good type with beautiful udders.

FARM MACHINERY—1957 40 JOHN DEERE TRACTOR with starter, lights, and live lift, 1949 JOHN DEERE B TRACTOR, starter lights, & Roll-O-Matic, New Holland 60 Baler, McDeering 7 ft mower, Meyer hay crusher, used 2 years, David Bradley side rake like new, McDade hay dryer with 5 h p motor like new, 3 bottom Mc plow, Mechanical transplanter, used for 15 acres, John Deere manure spreader, 28 John Deere Disc on rubber, Case 16 Disc Grain Drill, 3 section spring harrow, 9 ft cutpacker, 2 rubber tire wagon, power take off tire pump, platform scales, wheelbarrow, 275 gal gas tank, poultry equipment lot tomato baskets, 200 new sawed locust posts, lot new 6 in oak boards, Loudon feet cart

DAIRY EQUIPMENT—400 gal Majonier Vacuum Milk tank, used 1 year; 2-unit Surge milker, and milk pails, stainless steel double wash tubs, gas stove, Hotpoint refrigerator

FEED—1000 bales barn dried hay mostly alfalfa and some mixed hay, corn and silage, and any and everything used on a farm

For catalog write to Harvey Rettew, Manheim, Pa R 2, Sale Mgr

HARRY S. GOOD, Owner.

Auctioneers—Dupes, Diller, Buffmeyer

Clerks—Bandt and Alsbough

At The Same Time and Place Will Offer The Farm

AT 12 00 O'CLOCK NOON

126 ACRES of which 80 acres are tillable, 22 acres in pasture, with good stream of water, balance woodland, there are 20 acres in alfalfa, 14 acres in wheat

A TWO FAMILY HOUSE

with 2 baths, modern kitchen, never failing spring with pressure system, two electric hot water heaters, NEWLY REMODELED DAIRY BARN 42 by 95 with twenty comfort stalls, 3 box stalls, 3 calf pens and a bull pen, CORN BARN, POULTRY HOUSE, ne 10x20 MILK HOUSE heifers pen, 18x50, silo 12x40 This is a desirable farm located near churches, schools and in good community

Farm will be offered at 12 00 o'clock Conditions by

HARRY S. GOOD.

DISPERSAL SALE

— O F —

40 Registered & Grade Holstein Cows

AND THE NATURAL INCREASE

Bangs Certified, T. B. Accredited, Galfhood Vaccinated.

Saturday, November 22, 1958

AT 12:30 O'CLOCK, NOON

LOCATION — IN LANCASTER COUNTY, 1/2 MILE SOUTH-EAST OF STRASBURG, PA. TURN SOUTH OFF ROUTE 896 ON FIRST ROAD EAST OF STRASBURG.

40 COWS

AND

First Calf Heifers

many are fresh or close



a few due throughout the year, this is a fall dairy and are milking good now.

D H I A Herd Av 1957 14,285 milk 524.5 fat 3.65%
1956 13,445 milk 503.4 fat 3.7%

Classified—4-16 58 3 Very Good 18 Good Plus 4 Good

Many cows are bred again to the top Sires in The S E A B Coop.

Including—

Hortonholm Bonnie Midkriff 3162956
8 yrs. 305 days 18234 milk 702 fat 3.8%

Belle Lestrangle Governess 3578695
7 yrs. 305 days 16,730 milk 620 fat 3.7%

Leet Rag Ormsby De Lyn 3895559
4 yrs. 305 days 13,723 milk 579 fat 4.4%

Hengerveld Abegweit Chiefton 2969946
8 yrs. 305 days, 16,252 milk 550 fat 3.4 %
554 fat 3.6%

Elm-Becca Laurel Starlette 3586731 3 yrs 304 days 15,490 milk
554 fat 3.6%

Locus Gap Monogram Rag Apple 7 yrs 305 days 17,254 milk
564 fat

Hilda Penstate Wintertrur 3384929 332 days 14,389 milk 537
fat 3.7%

This is a hand picked herd of cows and only the best could stay in this herd, one of the top herds to be sold this fall, good udders and good type. These cows will suit the most careful buyer and must be seen to be appreciated.

DAIRY EQUIPMENT — A 500-GALLON WILSON MILK TANK, like new.

50 TON OF ALFALFA HAY (extra good), and a full line of dairy equipment.

For Catalog write to Harvey Rettew, Manheim, Pa. Sale Manager

MARVIN A. ESHLEMAN, Owner.
STRASBURG, PA.