Shorter Day (Continued from Page 13) 24-hour schedule.

- part of a larger network ular days level off. of environmental controls lected flock to four short days, instead of three conventional days, during every 72-hour period.

Commercial poultrymen began lighting houses artificially many years ago, after noting that hens lay extra eggs in spring and summer when days become longer. But they normally keep total day length at 24 hours and vary only the ratio of light to darkness.

Behind the ARS effort to shorten the chicken day lies the fact that today it takes a good hen about 24 hours to produce an egg. And so, like many body processes, egg production appears tied to the rhythm of day and night.

ARS poultry geneticist H. L Marks, in charge of the short-day project, reasons that a more rapid day-night rhythm might allow chickens to accelerate their production In other words, some chickens with the proper genetic potential might be conditioned to l'ay an egg in an average of about 18 instead of 24 hours

To see if this theory works, ARS faim electrification engineers helped poultry scientists in equipping an experimental henhouse For lighting control, they installed time clocks which provide 12 hours of light alternating with 6 hours of darkness. thus paralleling the 21 ratio of 16 hours light to 8 hours darkness that many poultry men use Also, they devised an air-conditioning unit that keeps the chickens waimer it is light than when it is dark. This equals the difference in outside temperatures between day and night.

Several generations chickens - from parent stock that varied considerably in genetic makeup - have been selected for improved egg production on 18-hour days, and compared with a similar flock working regular 24 hour days So far, both groups have improved from generation to generation at about the same rate

Selection for high lay generally improves egg production up to a point, after levels off Since which 1t both the short-day chickens and the controls are still improving, it is too early to say whether the experiment will produce the hoped-for results The true test of the

MYER SALE REPORTED

Diller and Kieidei, Auc tioneers, reported the follow ing prices at the Donald Myer Farm Dispersal sale, Bain bridge, Thursday, February 24 John Deere 3020 tractor, \$4405 NH 268 baler, \$1,-560, NH 404 crimper, \$470;

John Deere corn planter, \$260 Hay \$35 a ton, and Straw \$21 a ton Milker steel strainers, \$15 and \$16

It takes about 65,000 blue cordurov jackets each year to satisfy the demands of Kreider and Diller, Auctioneers. FFA members throughout the nation.

18-hour day, in other words, is in the question: Will hens possible, however, that these on short days keep on im- strains will continue to lay ARS poultry scientists use proving their egg produc- at a high level, even when an artificial lighting system tion after those working reg- exposed to conventional light-

to change light into dark, strains that produce well on news inside an experimental short days can be estab- whether either method will henhouse every 18 hours. Eshed, poultrymen may have help the commercial egg pro-They expose a genetically set to keep them in windowless ducer.

houses operated by timeclocks similar to those used by ARS researchers. It is If the answer is yes, and before scientists can say research will be necessary

PRIVATE SALE

FARM IMPLEMENTS and DAIRY EQUIPMENT

Located 11/2 miles south of Route 30 midway between Mountville and Columbia. Turn south at Catholic Convent on Prospect road.

5 Tractors - Cockshutt 40, Cockshutt 30 diesel with loader. Cockshutt 30 diesel for parts, International 350 with plow, mower and 3 point adapter, IHC with plow, cultivator and 2 man tobacco hoer, garden tractor, IH 46 baler used 3 years, IH crimper, used 2 years. New Idea manure spreader, New Ideal 2 row corn picker, mounted, transport disk, 3 wagons with beds, a tabacca plantar and a complete line of 6 tobacco wagons, tobacco planter, and a complete line of farming and tobacco equipment.

Dairy Equipment — Barn cleaner used two years for 26 cows, 5 and 6 can cooler, 30 milk cans, 2 unit Surge milker, late style with narrow bore and complete line of Dairy equip-

Terms by

MELVIN SAGER

Columbia R. D. #2 Phone 684-8895

PUBLIC SALE

Farm Equipment

In Pequea Township, 2 Miles South of New Danville, turn (10 to 15 degrees F) when East at Buckwalter's Shop, second place on the right or in it is light than when it is Willow Street at Hildebrand's Crossing, turn off Route 272, travel 3 Miles West to farm, Lancaster County, Penna.

Saturday, March 19, 1966

12:00 NOON

TRACTORS

OLIVER 88 DIESEL, COCKSHUTT 30 WITH 3 PT. AND CULTIVATORS, JOHN DEERE M WITH PLOW, CULTIVATORS AND TOBACCO HOERS

New Idea Hay Conditioner (like new), Allis Chalmers 3 pt. Mower (2 years old), Gehl Mix-All Grinder and Mixer (like new), 2 Rubber Tired Wagons, McCormick 3-Bottom Trip Plow on Rubber, Cockshutt 2 Bottom on Rubber (trip bottom). Massey Harris Heavy Duty Offset Disc, Graham Plow with Cylinder, Cockshutt Disc Harrow, Dunham Cultipacker, Spring Tooth Harrow, 32 ft. Cardinal Bale Elevator with 1½ H.P. Motor, 12 ft. Cardinal Grain Elevator, Smoker Grain Bin with Running Gear, One Row Corn Picker, 3 Tobacco Wagons, 16 ft., 18 ft. and 20 ft., 3 pt. Hitch Field Sprayer (Nylon Roller Pump), McCormick Corn Planter, Water Tank (approximately 750 gal.), Coop Grain Drill, Tobacco Press, 40 ft. Belt, Air Compressor, Platform Scales.

Lincoln 225 Amp. Welder, Electric Drill, Bench Grinder with Motor, ¾ H.P. Electric Motor, Extension Ladder, Bag

1955 STUDEBAKER ¾ TON TRUCK

POULTRY EQUIPMENT

2 Mechanical Buckeye Feeders with Trough and Chain, Hand Feeders, Water Fountains, 4 Gas Brooders, 25 Poultry Crates, Keenco Egg Washer, Keenco Egg Grader, Egg Nests and Baskets.

Knapsack Sprayers, 2 Lawn Mowers, 3 - 21" Gang Pennsylbrady Spreader # MS 141, \$435, NH 56 rake, \$410. Farmec elevator, \$430. blow-rand Rotary Fuel Pump Fuel Tank with hand Pump.

HOUSEHOLD GOODS -

Butter Churn (electric), Tappan Gas Range, 2 Metal Folding Cots, Plank Bottom Chairs, Rocking Chairs, Desk, Floor pump \$305, and stainless Lamps, Pressure Canner, Dishes, Jars and Crocks.

TOOLS:—Forks, Shovels, Hoes, Wrenches, Hammers, Gar-

den Hose and many other articles.

TERMS BY

MARK S. HESS

REFRESHMENTS BY NEW DANVILLE FIRE COMPANY

PUBLIC SALE

Farm Equipment

4 ml. west of Millersville, 1 mi. south of Rt. 999 on Prospect Rd., 1 mi. east of Washington Boro, Manor Twp. on Heary Hostetter farm.

SATURDAY, MARCH 12, 1966

CO-OP E4 TRACTOR; WD-ALLIS CHALMERS with 45 KIT . 2. way hydraulic system; C-ALLIS CHALMERS TRACTOR with 2 ROW CULTIVATOR; W.C. CASE with SNOW BLADE; New Idea - Semi Mounted mower; No. 30R Allis Chalmers mower; Allis Chalmers Scraper Blade; Allis Chalmers 60 Series Two Way Plow, 16" bottoms; Allis Chalmers Rake; Allis Chalmers Forage Blower with Wisconsin motor and pipe for 50' silo; Brady Hay Crimner 2 Grave 5 tan wagans 6 nly tires 16 ft. bede Hay Crimper; 2 Grove 5 ton wagons, 6 ply tires, 16 ft. beds, silage sides; Grove unloading unit and false fronts; Cockshutt 262 Wheel mounted Disc Harrow; G.I. Cultipacker; 3 section spring harrow; 7-tooth Graham Plow; Superior - 16 disc - 7 Grain Drill; MC Fertilizer Drill; Badger forage Harvester with windrow pick up and corn head (used 2 seasons); 2 12A New Idea Manure Spreaders; 10' Weeder; 2 Grain Augers, 8' and 16' with ¾ horsepower motors; 24' Smoker Elevator with 50'x 6" belt; 12 KW Generator.

POULTRY EQUIPMENT

Keenco egg grader; Chore time egg washer; egg bæke‡; chicken crates; Range Shelters; Nests; Feeders.

DAIRY EQUIPMENT

20 qt. milk pail; Dairy scales; Stewart electric Clippers; Electric Calf Dehorner; Log chains; Ropes; Forks, Shovels. STRAW BY THE TON

HOUSEHOLD GOODS

Columbian Coal Range; Butcher Furnace and Iron Kettle; Double Bed; Bureau; Library Table; 2 Wash Stands; Twio Laundry Tubs; Jars; Dishes; Crocks; other items.

SALE STARTS AT 12:30 P.M.

by JOHN S. HESS R#1 Washington Boro, Pa.

Carl Diller 392-5235 J. Everett Kreider 284-4517

Refreshment stand by Farm Women #23

PUBLIC SALE

Complete Dispersal of Dairy and Farm Equipment

LOCATION:—Take Route 999, 1 Mile West of Millersville, bear right and follow signs 34 Mile, Manor Township, Lancaster County, Penna.

THURSDAY, MARCH 10, 1966

12:00 NOON

42 HEAD OF AYRSHIRE AND GUERNSEY

30 AYRSHIRE COWS, 3 BRED AYRSHIRE HEIFERS, 3 OPEN AYRSHIRE HEIFERS, 2 AYRSHIRE YEARLINGS.

3 GUERNSEY COWS, 1 GUERNSEY HEIFER

Bangs and T.B. Certified, Vaccinated and Artifically Bred. Mostly Fall and Winter Freshenings. Charts furnished.

Farmall H Tractor, Farmall C Tractor with Cultivators,

New Holland 66 Baler, New Holland Side Delivery Rake, 14 in. Two-Bottom Little Genius Plow, 24 I. H. C. Disc Harrow, 1 Spring Harrow, Cultipacker, Case Combine, Rosenthal Corn Husker and Shreader, Ensilage Cutter, 2 Manure Spreaders, New Idea and John Deere; Case Rubber Tired Wagon & Flats, 1 Steel I.H.C. Wagon, I.H.C. 13-Disc Grain Drill, 30 ft. Case Ele-vator, I.H.C. Complanter, Combinder, Lime Drill, Hammermill, Corn Sheller, 1/2 Ton Feed Mixer and Motor, Tractor Seeder, Butchering Tools, 2 Platform Scales, Iron Kettle and Furnace.

MILKING EQUIPMENT

DeLayal Milker, Pump and 2 Units, I.H.C. 6-Can Cooler, 16 Milk Cans, Buckets, Strainer, Water Heater, Corn, Handmade Brooms, Forks, Shovels, Chains, and other articles. TERMS BY

CLARENCE J. HUBER

Kreider and Diller, Auctioneers.

LUNCH BY THE MENNONITE YOUTH NOT-RESPONSIBLE FOR ACCIDENTS