

## In Search

(Continued from Page 34)

Station, Urbana) USDA's Agricultural Research Service (ARS) administers the laboratory.

One puzzle the ARS scientists are tackling is how to make more nitrogen available to soybean plants. About 400 pounds of nitrogen are needed to produce a 70 bushel per acre soybean crop and the scientists are seeking ways to make this nitrogen more available, either through fertilizer nitrogen or more efficient strains of root nodule bacteria which take nitrogen from the air and convert it to a form that soybean plants can use.

Other problems confronting the scientists include discovering why soybeans that lodge have a lower yield than those that don't. Soybean breeders are working to develop semi-dwarf varieties that will be high-yielding, as well as resistant to lodging, diseases and pests.

A long-term project is being conducted to find the effects of crop rotation and herbicide treatment upon



Dr. Robert W. Rinne cultures soybean tissues in solutions containing radioactive compounds. He follows the pathways these compounds take in the growing tissue to study how the plant produces protein and oil. This information is used to develop new soybean varieties with desired levels of protein and oil.

yields could theoretically increase by 50 percent.

Developing varieties with more oil and protein and finding ways to cut harvest losses are other research areas that the ARS scientists are exploring.

Research will provide the know-how for farmers to get higher soybean yields, which will help maintain a steady and growing supply to meet world demands for the protein-rich soybean.

## Sale Reports

**Ja-Jean Herd Dispersal**  
Joseph Graybill, owner  
Black and White Holstein Farm  
August 1, 1974

A large crowd of buyers convened at the Black and White Holstein Farm on Thursday, August 1, for the herd dispersal sale of Ja-Jean Farms.

Largest buyer of the day was Harvestore Haven Farm from Silver Lake, Indiana. Top selling cow Ja-Jean Evelyn Ast. Chief Sold to Ed Misiaszek and Herbert Kallman of Jewett City, Conn. for \$2,200

Cows averaged over \$800 for the sale.

Local buyers included: Joe Hess, Walter Mowes, Sam Long, Jay Mylin, Andrew Miller, Leroy Oberholtzer, Robert Young, and Marlin Weaver.

weed seed population in the soil and upon soybean yields. Developing a control method for yellow nutsedge, which is becoming a major weed problem in soybeans, is also a primary objective.

Soybeans do not use sunlight efficiently. If scientists can find a way to improve their efficiency,

# Public Sales

SAT. AUG. 17-1 P.M. DST A. Holtz Herd Dispersal from New Jersey to be held at the Shady Lane Dairy Cow Stables located 1/4 mile West of Quarryville off Oak Bottom Road. Sale by Fite Bros., Owners; Kersey Bradley, Auctioneer.

ce Stoner: Paul Snyder, Auctioneer.

SAT. AUG. 17-11 A.M. Sixth Annual Combination Sale, Leesport Market and Auction, Inc., Leesport, Pa. Sponsored by Berks County Pomona Grange. LeRoy H. & John U. Weist, owners and managers of dairy cattle sale.

SAT. AUG. 17-12:30 P.M. Annual Holstein Heifer Sale located 2 miles West of Fredericksburg, on Lickdale Road, cross over interstate 78 to Sunser Drive. Second farm on right. Sale by Claren

SAT. AUG. 17 - 10 A.M. Public Sale of Household Items and Antiques located 2 miles South of Cochranville near 41 and 796 in-

(Continued on Page 38)

## L & S AUCTION CENTER

RD1, STRASBURG  
ON ROUTE 896

CONDUCTOR OF  
PUBLIC SALES  
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AUCTION CENTER



Real Estate • Antiques • Farm • Household

### PUBLIC AUCTION

WEDNESDAY, AUG. 21, 6:30 P.M.

FINE LINE OF HOUSEHOLD  
FURNISHINGS & ANTIQUES

PHONE 687-8505

LARRY L. LEFEVER, AUCTIONEER  
RICHARD P. SCHROYER, AUCTIONEER

Receiving Hours — Mon., Thurs. 7-9 P.M.; Sat. 9 to 12 or by Appointment

## PUBLIC SALE

### 72 ACRE FARM

Located 2 miles North of New Enterprise off Route 869, 1 mile West of Salemville in Bedford County.

WEDNESDAY, AUGUST 21, 1974

9:30 A.M.

Household Goods, Furniture, Dishes, other Items.

Farm machinery selling at 11 A.M. including M-T John Deere Tractor; 2 bottom plows; John Deere Side Rake; John Deere Baler; Mower; Elevator; Harrow; 2-row corn planter; 13 hole McCormick Drill; New Idea Spreader; 2 flat bed wagons; trailer; forks; shovels; chains, 2,500 bales of mixed hay.

29 Head of Holstein and Guernsey Cattle  
19 milk cows, 8 Heifers, 2 calves.

Health Charts

Real Estate offered at 1 P.M.

72 Acre farm, 8 room house, bank barn, modern conveniences, 20 stanchions, milk equipment, farm stream through pasture, land in high state of cultivation.

Terms: Personal property cash. Real Estate 10 percent down, balance on delivery of deed.

Owner

**MR. & MRS. JOHN KAGARISE**

New Enterprise, Pa. R.D.  
Phone 814-766-2753

Claycomb & Mishler, Auctioneers  
Phone 814-276-3272

## Finger Lakes N. Y. FARM FOR SALE

187 acres more or less, level suitable for grain or dairy. Located on main Highway 414.

Dairy barn with 46 ties, 4 box stalls, barn cleaner, bulk tank and silo.

Two large pole sheds.

House with modern improvements.

Spring fed pond. Asking \$140,000.

Phone 1-607-869-5659

**Edward & Janet Chapter**

RD2, Romulus, N. Y. 14541

## 2 COMPLETE HERD DISPERSALS

at the New Holland Sales Stables, Inc.

FRIDAY  
EVENING,  
AUG. 23, 1974

7:30 P.M. Sharp



Herd No. 1 — Owned by Gary Stutzman from Collegeville, Pa. 45 Holstein Dairy Cows in all stages of production. 12 cows fresh in last 6 weeks milking from 60 to 84 pounds per day. Milk weights will be given night of sale. A few Registered cows, 20 heifers, 12 bred, balance yearlings.

This herd was milked in a stanchion barn.

Herd No. 2 — From George Waddington, New Jersey. 50 Holstein Dairy cows, all home raised, artificial breeding for 25 years. These cows have lots of size and dairy quality. Many bred to freshen from Aug. 15 to Dec. 15. 8 first calf heifers have freshened in past 2 months.

This is a milk parlor herd.

Both herds tested for Interstate and pregnancy.

**Abe Diffenbach, Manager**

## HARRY'S AUCTION

GEORGE CLAPPER  
MANAGER



11 GRAYBILL ROAD  
BAREVILLE, PA.

8 Miles East of Lancaster  
Just Off Route 23  
656-2272

**SALE -  
AUGUST 24**

Starting at 10:00 A.M.

CONSIGNMENTS WELCOME

- Household Goods
- Appliances
- Furniture
- Antiques
- Television Sets
- Many Useful Items



If you have tat  
cattle or  
need feeders . . .

**THINK  
NEW HOLLAND**

### BEEF SALES

MONDAY 2:30 P.M.

THURSDAY 12:00 NOON

Sale Order - Fat Bulls, Steers, Stockers, Beef  
Cows and Veal Calves

**NEW HOLLAND SALES STABLES, INC.**

Phone 717-354-4341

Daily Market Report Phone 717-354-7288

Abe Diffenbach, Manager

Field Representatives - Bob Kling 717-354-5023

Luke Eberly 215-267-6608



## NIGHT HORSE SALE

WEDNESDAY EVE., AUGUST 21, 1974

PAUL Z. MARTIN'S

2 MILES EAST OF INTERCOURSE, PA., ALONG ROUTE 340.

Load of 20 Head, mostly Good Big Standardbred Carriage Horses from New York for Abe King  
Local Saddle Horses, Walking Horses, Pleasure Horses and Standardbreds

Horses Hitched at 1 30 p.m.

Tack Sale at 6.00 p.m.

Horses at 7 00 p.m. Sharp!

MARTIN  
AUCTIONEERS

**PAUL Z. MARTIN**

BLUE BALL, PENNA. 17506

Residence — 717-354-6671

Business — 717-354-8108

HAY, STRAW & CORN SALE EVERY WEDNESDAY at 12 Noon