

# Are Sows Being Overfed?

(Continued from Page 29)

Formaldehyde and fumigating should follow the washdown.

"Breeding research, like building research, is very time consuming and expensive," Younkin said. He added that funds are no longer even available for the breeding farm the University did have.

He explained that sows average about 20 eggs, but have an average litter of only 10. "What happened to the other 10? With proper research, maybe we could average 15 to 16 pigs, or at least 12.

Hog producers selecting the best gilts should look first at the gilts' mothers. "Too many times meatiness has been put at the top. A couple of breeds that put top emphasis on meatiness are in trouble."

### Sassy Sows

Bad traits will be passed on from one generation of sows to the next, he indicated. "If mothers are sassy or if you can't get in the pen with them, get rid of them. If it takes them two or three days to farrow, get rid of them. It's the sow that you never had any trouble with that you should keep."

While the mother is the guiding factor in selecting a gilt, the boar should be judged largely on meatiness, Younkin said.

He showed sides of hog carcasses to explain that the ratio of meat to fat can vary greatly in hogs. But he noted that packers pay only a slight difference for the much greater proportion of meat. That's one of the things wrong with the hog business, he said.

The boar is the key factor in meatiness over a long-term breeding period.

He explained that if a good meaty boar is bred to a good sow, pigs in the resulting litter will contain half of the traits from the sire and half from the sow.

The gilts that are a product of that litter, he said, then are bred to another meaty boar, with the resulting litter having 75 per cent of the traits, in this case meatiness.

When the gilts of that litter are then bred to another meaty boar, 87.5 per cent of the desired meatiness traits will have been passed on.

### Efficient Reproduction

To receive the most efficiency in swine reproduction, two things must be done.

These, Younkin said, are limiting feeding and using cross breeding.

By limiting feeding to sows being farrowed, more pigs can be saved, pigs are stronger and the sows are better milkers.

Cross breeding provides several advantages. First, research has shown that an average of 1.5 pigs per litter more can be weaned.

Second, the pigs are stronger and grow faster.

Third, the sows milk better.

### Not Meatiness

By cross breeding, however, the swine producer will not effect meatiness or feed efficiency. These traits he said, will not be passed on just because of cross breeding. They are passed along in any breeding program.

### Environmental Stress

Another major point in his address concerned environmental stress on the sow.

According to Younkin, stress must be kept from the sow 21-30 days after she has been bred. After that the sow is pretty hardy, he stated.

Heat, noise, movement, cold

and nutritional deficiencies will have the most effect, and can even cause the sow to absorb some of the eggs and therefore not produce pigs.

Temperatures of 90 degrees or more have the most effect, he said, and efforts should be made to keep the animal cool. A water spray is one way in the summer, he said. Cold doesn't seem to bother the sow, Younkin stated.

Younkin discounted the use of artificial insemination for smaller breeders at this point in research. The biggest problem, he said, lack of uniformity of impregnation and cost also is high.

### Pig Loss

Younkin also cited statistics

showing that the greatest loss of newborn pigs is within the first two days.

An Illinois study showed that the greatest death rate came the first day, with 26 per cent of those that died being lost then. The second greatest rate came the second day with 13 per cent dying. Approximately 17 per cent of those farrowed were still born.

He also told swine producers that the farrowed pigs fought for social position three to four times.

Larger pigs usually then nursed from the front teats where the most milk is, with the weaker pigs having those farthest to the back.

## PUBLIC SALE

SAT., MAR. 28, 1970 AT 10:00 A. M.

Location: 1 miles west of Donegal High School, 1/2 mile south of Kraybill School on Kraybill Church Road, R.D. #1, Mt. Joy, Pa.  
Farm Machinery: 445 MM LP Gas, J.D. B, Ford Ferguson tractors, 3-14" MM plow, Case harvester, Wood Bros. corn picker, J.D. Corn Planter, PTO generator welder, poultry equipment, household goods and antiques, etc. Na-churs Grown Ear Corn.

Terms by M. DAVID AND EDNA BRUBAKER Stone & Kilmer, Auctioneers.

Food Stand by Kraybill's School. See listing later.

## PUBLIC SALE

NEW AND USED FARM EQUIPMENT

WEDNESDAY, MAR. 11, 1970 AT 10:00 A.M., SHARP

To all farmers and dealers present before 10:00 o'clock, come to office and get a Free Ticket on a NEW 5-TON GROVE WAGON.

The undersigned will offer at public sale on the premises located 1/4 mile south of Adamstown on Bowmansville road off Route 222, 9 miles west of Reading and 2 1/2 miles east of Reading Interchange of Pa. Turnpike in Lanc. Co., Pa.

### 30 - 35 TRACTORS

JOHN DEERE 4020-D, 4010-D, 4010 Gas, 3020-D, 2520 Gas Demonstrator with 85 hours; 2510 Gas, 730-D, 520, 420-W with power steering; 50 and 40-B; IHC 806-D, 706 Gas, 656 Gas, 350 Gas, Super M, M on steel; Oliver 1950TD with 690 hours, 1750-D, 1650-D, 1650 Gas, 770 Gas with power steering; Ford 4000-DT Demonstrator with 210 hours; 4000 Gas, Ferguson 20, M.H. 44 Gas, A.C. with cultivator and hydraulic; Ford 641-D; D-2 Caterpillar Crawler.

NEW EQUIPMENT — J.D. 10-ft. and 8-ft. Roller Harrows; 12-ft Harrow, 9-ft. Harrow; New Idea 323 1-row Corn Picker, New Idea 195-bu. 3-beater Spreader, J.D. B Grain Drill, Parker Grain Bin with wagon; J.D. 5 Flail Shredder, N.H. Flail Shredded, Farmhand Wheel Rake, J.D. 25 Sprayer, J.D. 60H Hopper Blower, J.D. 105 Rotary Mower, 5-ft. Emco Rotary Mower, J.D. 55 Demmo Combine; J.D. 24T Baler.

HAY EQUIPMENT — N.H. 271 Baler, PTO thrower; N.H. 68 Baler, N.H. 460 Hay Bind, 2 N.H. 450 Mowers, 2 New Idea Hay Conditioner, like new; J.D. Hay Conditioner, J.D. Side Rake, Nichlons Hay Tedder.

HARVESTER EQUIPMENT — N.H. SP Harvester with Chev. motor; Gehl Harvester, like new; J.D. 72 with motor; IHC 16 and 15 Harvester, J.D. 15 Flail Chopper, Fox PTO Table Blower, Kools PTO Hopper Blower, Badger self-unloading Wagon; IHC IPR Picker, like new.

CORN PLANTERS AND GRAIN DRILLS — J.D. FBB 17x7 Grain Drill, one year old; Late IHC Grain Drill, J.D. 30" 6-row Corn Planter, one year old; J.D. 494A Corn Planter, one year old; A.C. 4-row Corn Planter, IHC 456 4-row Corn Planter.

DISC HARROWS - PLOWS AND HARROWS — J.D. KBA and Wheel Type Discs; Case 32 Wheel Type; J.D. RW Wheel Type Discs; M.M. 28 Wheel Type and Harrows; J.D. F345, F125, F130, 416 2-3-4-bottom Plows; J.D. 620 3-16" Plows; Oliver and A.C. Plows; J.D. 4-row Cultivator, Ford 3-point Cultivator; 8-10-12 Cultipackers; Oliver 566 5-bottom 16" Semi-Plow. SPREADERS — I.H.C. PTO Spreader, J.D. N PTO Spreader, Case PTO Spreader, New Idea 12A Spreader, J.D. Spreader, J.D. R Spreader, J.D. 45 Loader, Sauder Loader; Used Tractor Tires and Rims; 100 New Recapped Car Tires; J.D. Parts and Tools, Chain Saws, sold off wagon.

If you farmers need good equipment, don't miss this sale. Sale at 10:00 a.m. Terms by

EDWIN HURST, INC.

R.D. 2, Mohnton, Pa., phone 215-484-4391

Ralph Horst and Rentzel, Auctioneers.

Lunch will be served

## USDA Buys Lentils

The U.S. Department of Agriculture Service said the purchase, culture has announced the purchase of 2,301,968 pounds of lentils at a cost of \$254,684 for distribution to needy families, schools, and institutions. Purchases were on a competitive bid basis.

USDA's Consumer and Market-

ing Service said the purchase, financed with Section 32 (Public Law 320) funds, is to be packed 1,861,968 pounds in one-pound packages and 440,000 pounds in ten-pound bags. The lentils are for delivery March 1 through May 15, 1970.

## PUBLIC SALE

R. F. HEILMAN & SON

SATURDAY, MARCH 14, 1970

Located 4 miles northwest of Lebanon, Pa., 1 mile north of Cleona, Pa. and Route 422.

75 HEAD OF REGISTERED CANADIAN HOLSTEINS

25 FALL COWS — OCT. AND NOV.

SPECIAL — 4 Daughters of Roybrook Telstar (Ex.)  
2 — 3 year olds, Fresh, 1 Milking 90 lbs.  
2 — 2 year olds, Due in August.

Daughters of the following Sires in Hamilton & Waterloo Units  
5 — Forestlee Rockette Centurians, Milking 60-75 lbs.  
2 — Bardholm Royale Supreme, 1 Milking 85 lbs.  
4 — Glenafton Royal Hamilton.  
3 — Grand Daughters of Persius, 1 Milking 92 lbs.  
2 — Rosafe Centurian.  
2 — Thornlea Texal Supreme.  
3 — Meadowlark Golden Cross.

All D.H.I.A. Records announced on Sale Day.  
30 HEIFER CALVES, 2-6 months old, from above cows.  
150 HEAD OF YORKSHIRE HOGS — 30 Bred Gilts, Due in March and April, 3 Serviceable Age Boars, 2 Registered Yorkshire, Balance Shoats from 40-90 Lbs.

Sale Time — Hog Sale, 12:00 Noon; Cattle Sale, 1:00 P.M.  
Lunch Served By Hill Lutheran Sunday School

Pedigrees — Fred Naugle Auctioneers — Dupes & Ebersole

WRITE FOR CATALOG

R. F. HEILMAN & SON

Route No. 4, Lebanon, Pa. 17042

Telephone 717-867-1625

## PUBLIC SALE

Of Farm Machinery And Some Household Goods

Along Route 222, 2 Miles North of Wakefield, 7 Miles South of Quarryville, Pa.

FRIDAY, MARCH 20, 1970

11:30 A. M.

### 5 TRACTORS

John Deere 630 Fully Equipped, IHC 340 with New Idea 503 Manure Loader Hyd. Fork and Snow Bucket, Farmall C with Cultivators and Front Mounted Cornplanter, 2 Farmall H (good),

Oliver 3-16 in Trip Bottom 3 Pt. 1 Yr Old, 2 Bottom 14 in. Oliver Trailer Plow, 2-16 in IHC Plow Trip 2 Pt., IHC 32 Disc Harrow Heavy Duty, Cultipacker, New Holland 270 Hayliner with P.T.O. Thrower, 3 Wagons with High Sides (2 New Cases), 28-ft. Case Elevator 2 Years, 16 ft. Single Chain Elevator, IHC 7 ft. Semi-Mount Mower, New Holland Hay Crusher (1/2 Year Old), New Idea Semi-Mount Rake 5 Bar with all Triple Teeth, Case 12 Disc Drill, New Holland P.T.O. Manure Spreader,

8 ft. Spring Harrow, New Idea 1 Row Cornpicker, 2 Bin Wagons, on Rubber, Dauser Post Hole Digger Mounts on C or 3 Pt. (Good), 2 Wheel Trailer, 12 Bale of Baler Twine, New P.T.O. Seed Sower, Wheelbarrow Seed Sower, 12x38 Tractor Chains, Saw Buck, Heat Houses for 340, 85 ft. Electric Cord, 4 Fence Controllers, 2 Batt. 2 Electric, Air Compressor, Rope and Pulleys, Litter Carrier Hoist, Nail Fuller and Box, Tools, Brace and Bits, Pipe Wrench, 1/2 in. Electric Drill and other articles too numerous to mention.

### 50 TONS OF EAR CORN

10 Tons of Straw, 10 Tons of Meadow Hay, 10 Bushels of Homegrown Cloverseed, S.P. 22 Surge Pump, 4-50 lb. Surge Pails with Narrow Bore, 3-16 qt. Stainless Steel Carrying Pails, 2 Stainless Steel Strainers, 1 Stainless Steel Double Tub Wall Hung, 2 Feed Carts Rubber Tired, 21 Milk Cans, Old Milk Cans, Stewart Chipmaster, Dehorners, Dari vac, Lawn Seeder, Corn Shelter with Motor, Old 1 Row Cornplanter, Oil Drum, Potato Plow, Emery Wheel, Cement Mixer, Set of Harness, Grindstone, Ladders, Electric Brooder, Shovels, Forks, Chains and other articles.

### HOUSEHOLD GOODS

Necchi Sewing Machine, Fire Place Set, Ladder Back Rocker, Love Seat and 3 Chairs (old), Rockers, Dinner Bell, Night Stands, 2 Old Beds Wood and Iron, Some Old Dishes, Crocks and Fruit Jars, Dinette Table, 6 High Back Chairs, Round Extension Table, Living Room Suite, Couch, Porch Glider and Rocker, Old Picture Frames, Butchering Pots and other articles.

TERMS BY

VANCE RICHARDSON and MARY GOSS

Kreider and Diller, Auctioneers

Lunch by Robert Fulton Fire Co.

Household Items 11.30