

Holstein Bulls Look Promising for Beef

Ferdinand the bull, if he were a Holstein, would be a more efficient producer of meat than "just plain Ferdinand," latest experiments at The Pennsylvania State University indicate. The studies show Holstein dairy bulls superior in most respects to steers as well as to partially castrated Holsteins.

While steers produced the best carcasses in fat thickness, bulls and partial castrates had longer loin-eye areas, higher cutability, and slightly more desirable lean meat flavor and total acceptability scores. The partial castrates are known as cryp-

torchids, produced by retaining the testicles within the body cavity.

The results show now apparent reason for making Holstein bulls into cryptorchids, says Dr. Lowell L. Wilson, professor of animal science at Penn State. The cryptorchids in this study showed the same "bullish" behavior as other bulls. Farmers should find the experiments helpful, Dr. Wilson believes, since a growing number of dairy farmers are raising bulls for beef.

The bulls, steers, and cryptorchids were all slaughtered

when 402 days old. Average daily weight gains after 190 days of age were 2.67 pounds for bulls, 2.48 for cryptorchids, and 2.28 pounds for steers. When slaughtered the bulls averaged 1078 pounds, the cryptorchids 995 pounds, and steers averaged 961 pounds. Thirty-two straightbred Holstein bull calves were studied. They were divided into 3 groups by sex when 190 days old.

Bulls and cryptorchids did better in weight gains than steers. Bulls averaged 7.8 pounds of feed for each pound of weight gained. Cryptorchids were close behind at 8 pounds of feed per pound of gain. Steers needed 8.8 pounds of feed per pound of gain.

The percentage of usable meat per carcass was significantly higher for bulls than for either cryptorchids or steers. There was no significant difference in degree of marbling. However, the heavier bull bodies may have accumulated the most fat within muscles, thus enhancing flavor and total acceptability, Dr. Wilson believes.

The findings are included in the 1972 volume of "Animal Science Research Summary," distributed to persons attending Livestock Day held recently at Penn State. Additional copies are available for \$2.00 from room 324 Animal Industries Building, University Park, Pa. 16802.

The advantages of feeding Holstein bulls to market weight could enable farmers and feedlot operators to expand production of dairy bulls for beef, he suggests. Much will depend upon the market demand for bulls versus steers—and safe, efficient feeding facilities.

Evaluation for tenderness, flavor, and juiciness included sampling of a 12th rib steak from each carcass by a taste panel.

The Penn State studies were the first comparing meat producing ability of castrated Holstein bulls with partial castrates slaughtered at identical ages. Previous studies at University Park and elsewhere were carried out mostly with lambs and beef breeds of cattle.

Beef Demand Is Seen Increasing

United States livestockmen will be faced with the challenge to raise 8 to 13 million additional beef animals by 1980 to keep pace with the projected demand for meat.

That's the prediction of Dr. Walter Woods, head of Purdue University's Department of Animal Science, who spoke at the 3rd Livestock Day March 22 on The Pennsylvania State University campus.

"Today each person is eating on the average of 114 pounds of beef each year. By 1980 surveys indicate that the per capita consumption will be up to 130 pounds," Dr. Woods said.

This increase in demand for

beef, he said, places increased pressures on the beef producer. He not only must increase the number of animals he raises, he also has to find ways to produce high quality cuts of meat at a low cost.

"Livestockmen need more cattle that have a potential for producing calves that gain at a faster rate and have the ability to convert feed efficiently into beef," the animal scientist emphasized.

He also predicted that a more sophisticated growing and feeding program will be initiated by producers. There will be cattlemen who specialize in obtaining a high rate of growth during the animal's early life. Then other specialists will take over and provide the concentrated feeding program needed to produce high quality cuts of meat.

Dr. Woods stated that all areas of the United States have the resources to produce beef. For this reason, the product should always be near large population centers for easy marketing and distribution.

Yoder Herd Records

Four Registered Holstein cows in the Jefferson D. Yoder herd, Elverson RD1, have been cited by the Holstein-Friesian Association of America for milk and butterfat production levels established.

Cows recognized for their exceptional food producing ability are:

Rocky-Side Posch Regal 6473620, age 6-2, 24,700 pounds of milk, 1,003 pounds of butterfat, 4.1 percent test, in 305 days; Rocky-Side Apollo 6473616, 6-3 23,460 pounds of milk, 875 pounds of butterfat, 3.7 test in 305 days; Rocky-Side pounds of milk, 811 pounds of butterfat, 4.2 test in 334 days; Rocky-Side Star June 6926877, 4-6, 21,710 pounds of milk, 649 pounds of butterfat, 3.0 test, in 336 days.

Balanced Snacks

Nutrition specialists at The Pennsylvania State University point out that it may be difficult to supply small appetites with all the essential nutrients. Give your child nutritious snacks such as fruit, juice, vegetables, milk or crackers rather than empty high calorie sweets.

Help Us Serve You

Don't assume we know about your farm organization's meeting. To get your meeting on our Farm Calendar, it's safer to assume we don't know.

Remind us by calling 394-3047 or 626-2191 or by writing to Lancaster Farming, 22 E. Main St., Lititz, Pa. 17543. You'll be helping us to serve you better.

P.S.—If you're not sure you told us already, we don't mind hearing from you again.

READ LANCASTER FARMING FOR FULL MARKET REPORTS

ALL DAY CONSIGNMENT SALE

FRIDAY, APRIL 6, 1973 9:30 A.M.

on North Maple Avenue, Leola, ½ mile North of Route 23, watch for sale sign.

International 500 crawler with hydraulic ankle plate; TD 6 Int. crawler PTO, both like new; 800 Ford with loader and backhoe; 100 Farmall with cult; 130 Farmall with side mounted mower; 100-3x7-13'; 40-1x12-16' tongue and groove; 4-8x9-26'; 13-3x8-28'; 4-6x6-24'.

Variety of Tractors, Farm Machinery, Horse Drawn Implements, Lumber, New Hardware and Tools, etc.

Truck load of citrus fruit direct from Florida.

We have buyers for hay and straw.

Frank & Paul Snyder.

Robert E. Martin, Aucls.

SALE BY

DAVID H. GOOD

Next sale Friday, April 20, 1973

Not responsible for accidents.

Public Sale

FARM MACHINERY, PICKUP TRUCK, SHOP & HAND TOOLS

SATURDAY, APRIL 7, 1973

at 9:00 A.M.

Located along South Church Ave. at the edge of Shrewsbury Boro, in Shrewsbury Twp., York Co., Pa. Take exit 1 off Interstate Rt. 83 and go west on Rt. 851 to South Highland Dr. and proceed to South Church Ave. or from Rt. 111 take East Church Ave. and follow signs to sale.

J.D. 2510 diesel, 2900 hrs.; J.D. F-1458 semi-mounted 4 bottom plow; J.D. A tractor with mounted J.D. #227 corn picker; J.D. B tractor with #45 manure loader; dirt, snow bucket & snow blade attachments; J.D. L.A. tractor with cultivators; Ford 8N tractor with Sauder manure loader; Ford 8N tractor with Ford mounted mower; J.D. #45 self-propelled combine with 10 ft. grain head & 2 row corn head; J.D. #400 grinder mixer, like new; J.D. 14T pickup baler; J.D. 7 ft. side mounted mower; J.D. flail chopper; J.D. hay rake; J.D. 40 ft. bale & grain elevator; J.D. 25 ft. hay conveyer with motor, like new; J.D. #21 hay conditioner; 2 J.D. dump wagons; 2 other wagons & flats; J.D. 15 disc grain drill used one season; J.D. 4 row corn planter; J.D. 2 row cultivator; 2 J.D. 4 row cultivators; 10 ft. transport disc; 2 J.D. 4 section harrows; 2 - 3 section harrows; J.D. 2 - 14" trailer plow; Oliver 2 - 14" mounted plow; 9 ft. cultipacker; 8 ft. disc; J.D. 2 wheel trailer type field sprayer with large fiber glass tank; J.D. manure spreader.

New Idea #17 manure spreader, good cond.; Ford cultivator & rear blade; J.D. #5 mower; J.D. corn binder; ensilage blower; J.D. hammer mill; J.D. corn sheller; Flipper seed cleaner; straw cutter; J.D. one hole corn sheller with motor; alum. 15 ft. portable grain elevator with electric motor; 2 platform scales; grain cart; wood saw; 3 oil fuel tanks; Homelite chain saw; Marquette electric welder; bench vises; grinders; drill press; anvil; forge; grindstones; 40 ft. ext. ladder; 2 large wagon loads of small tools, hand & garden tools and misc. items too numerous to mention.

1970 Chevrolet ½ ton step side pickup truck with 8 ft. bed. Truck is light green in color, has V-8 motor with only 1300 miles. Set of 8 ft. side boards and 8 ft. cattle racks.

Terms: cash or approved check

Mrs. John P. Lerew, owner

Robert L. Sechrist, auctioneer Ph. 382-4379
John Hope Anderson, clerk

Refreshment rights reserved

Not responsible for accidents

DAIRY FARM DISPERSAL

80 HEAD-PIPELINE, TANK-MACHINERY

ANDY MUNNIKSMAS & SON PORT COLDEN, N.J.

THURSDAY, APRIL 5, 1973 AT 11 a.m.

Place - on the farm Port Colden N.J. 1½ mi. E. of Washington, N.J. ½ mi. N. off Rt. 57, 15 mi. E. of Easton, Pa.

12:00 Noon 80 hd. of top Holstein cattle, 76 cows, 3 Spr. heifers, 1 stock bull, 46 hd. will be recently fresh or Springing at sale time, with about 30 hd. bred for fall freshening. Big young cattle with tremendous milk ability and strong sound well attached udders. Herd is presently over a 53 lb. per cow avg. with individuals over 100 lbs., many cattle carry popular ABS sires. Vet examined for pregnancy! T.B. & Blood tested and eligible for immediate interstate shipment!

Machinery - 11:00 A.M. N.I. No. 218 manure spreader w-hyd. gate (1 yr. old), J.D. 4 row corn planter, J.D. No. 112 and a No. 110 chuck wagons, N.H. No. 717 forage chopper w-corn hd. (2 yr. old), N.H. No. 36 flail chopper 2 yr. old, J.D. No. 8 chopper w-2 hds., N.H. hopper blower w-9" pipe, 4-20 ft. feeders, 3 grain augers 5 & 8", generator. Barn Equip. - Craft 800 gal. bulk tank 3A, De Laval 76 cow glass pipeline w-automatic washer, 6 De Laval units, Weaverline elec. feed cart, clay barn cleaner 350 ft. chain, 2 clay 16 ft. silo unloaders, 3 fans, stanchens and cups and some other items. Cattle are in top working condition and equipment has had good care! Owner & auctioneers not responsible for accidents!

Terms cash or good check sale day!

Lunch

Owners

ANDY MUNNIKSMAS & SON

201-689-3297

Sale conducted by:

Col. Fred R. Daniel
Auctioneers, Inc.

Neshanic Sta., N. J. 08853
(201) 369-4784