Progress made in beef cattle breeding

UNIVERSITY PARK -Beef cattle breeders have come a long way in imporving their animals during the past 40 years, according to Lowell L. Wilson, professor of animal science at Penn State. Even into the 1930's, Dr. Wilson noted, steers tended to be latematuring, slow-growing and difficult to feed efficiently for market

Then cattle breeders turned to more intensive management systems, combined with improved breeding methods developed through research, he pointed out Attention was given in particular to certain economically important characteristics of beef cattle growth rate, carcass meatiness, carcass structural eatability, soundness, fertility, and milk production.

Studies at Penn State determined the relative influence of inheritance on each of these characteristics. Next, methods of selection to bring about maximum improvement were developed, Wilson commented.

Over time, beef cattle breeders gave increased attention to selecting replacements for growth rate and carcass muscling, both highly inherited

Farmer Share of **Dollar Drops**

The farmer's share of the dollar spent in retail food stores dropped to 381/2 cents in August, compared with 39 cents in July and slightly over 39 cents in August last year, reports the U.S. Department of Agriculture. The cost for assembling, transporting, distributing an average of market basket of food increased nearly one per cent from July to August. Most of the increase was for beef, pork, poultry, and oilseed products. In contrast, marketing spreads decreased sharply for eggs. The farm-retail spread in August averaged 3.7 per cent above a year earlier.

characteristics. Fertility, on the other hand, was not emphasized in selecting breeding stock since fertility is not highly heritable.

Cooperating researchers at other institutions, the Penn Staters have developed reasons and techniques for recording performance on individual animals while they are maturing. Records are kept on weaning weight, yearling weight, structural soundness, and - in some cases ultrasonic estimates of fat cover and loin-eye area.

heritable Highly characteristics, such as yearling weight, must be obtained accurately to use in selection programs. Ten years ago, less than five per cent of all purebred beef cattle breeders collected such information. Now, said Wilson, all purebred beef associations sponsor performance and most have progeny tests programs. In addition, about 100 bull test stations in the U.S. collect performance records.

"Performance records in ındıvidual calves automatically become progeny records on sires and dams. Progeny testing is positive proof of a bull's or cow's genetic ability," he stated.

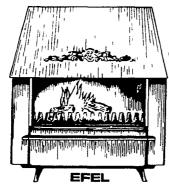
Penn State studies indicate that Angus-Holstein crossbred cows can produce calves averaging 80 pounds more at eight months of age than most other purebred or crossbred cows. However, nutrition and management must be relatively good for cows producing high yields of milk to have acceptable fertility.

"Success crossbreeding programs still

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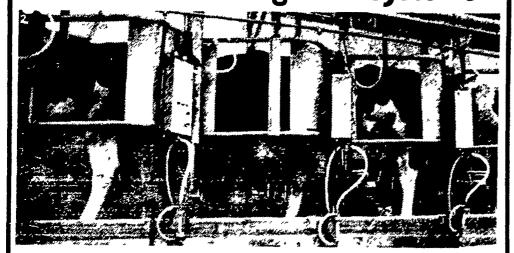
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rehes on selection of herd replacements with the genetic ability for high levels of growth rate, structural soundness, and carcass meatiness. Fortunately, crossbreeding has the greatest effect on calving per cent, one criteria of reporductive performance," Dr. Wilson affirmed.

He indicated the English beef cattle breeds - Angus,

continue their popularity in meat - is not as accurate in most commercial herds. However, other breeds such from different types of beef as Charolais, Chianina, Limousin, Maine-Anjou, and infuse highly desirable characteristics crossbred cattle.

score - an estimate of the ceptability.

Hereford, and Shorthorn - amount of fat in the lean predicting eating pleasure as once thought.

Practically all cattle from Simmental, are used to beef breeding projects at Penn State are evaluated for growth rate and other traits reflecting consumer satisfaction. One important aspect is the taste panel, in Experiments at Penn which eight trained people State have shown that evaluate differences in carcass conformation is not juiciness, tenderness, and necessarily related to the flavor. These measurements proportion of edible meat. aid in breeding or producing Another factor, marbling cattle with high ac-

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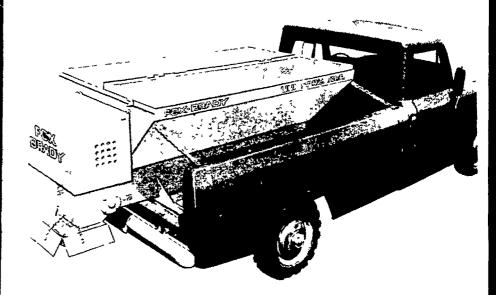
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