DAIRY BREEDERS, TAKE NOTE:

USDA Begins Predicted Difference for Dollars and % Test

cal information on predicted per cent test. difference of sires to show the farmer how much a particular from the 1971 May report sire can mean to his herd. The Jack and Joe. Jack has a P.D. information should be of interfor milk of +880 and Joe has a est to all farmers who believe PD. for milk of +871. Daughthat a good breeding program tels of both these bulls should ing and profits. The item was 880 pounds more of milk than mated to be .40 verses that of that most cows which don't profitable herd of cows. submitted by Gary Willier, ABS daughters of a breed average milk at .25). district sales manager.

dairy cattle breeding are apt to bull stray to the May USDA DHIA Active AI Sire Summary List.

The Sire Summary is a report card for all registered dairy bulls with more than 10 daughters completing records supervised by the Dany Herd Imacross the nation The Summary is published each year in January, May and September. The May report includes all Active Sires while the January only those sires with proofs May report.

This year's report has several additions which can be quite May USDA report is a PD. for ceptionally valuable tool for helpful to the dairyman interested in selecting bulls to use in his herd.

The USDA report compares production of all the daughters of a particular bull with that of their heidmates - those animals in the same herd calving in the same month, two months before or two months after that particular daughter The evaluation also compares the herdmates to the average of all cows of that breed and regresses the result according to the number of daughters involved, number of herds, etc

The end result is a Predicted Difference - an estimate of what future daughters of this bull will produce compared to the average of the breed A Predicted Difference for pounds of milk and pounds of fat have been standard for several years.

The 1971 May report also lists a Predicted Difference (PD) for per cent test and for dol-

It is no great surprise that **cows** which give more milk make more money for their owners Bulls with a high PD for milk will sire daughters which will on the average make more money for their owners than will daughters of bulls with average or minus PD. for malk This is both logical and straight forward

A more difficult evaluation, however, is the effect of the per cent test of the milk being produced. A cow producing 15,000 pounds of 38 per cent milk should return considerably more money to her owner than a cow producing 15,000 pounds of 32 per cent mlk Just how much more depends on the market and the butter fat differential premium

With the new PD for dollars. USDA has attempted to provide a guideline for dairymen

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cently added some new statisti. P.D. for milk and also P.D. for already been taken into contest in their herd.

bull (PD of 0) no matter

has a PD for dollars of +21provement testing organizations US Joe's daughters will return owners than Jack's daughters.

As you can imagine, this is due to the higher butterfat content of the milk which will be and September reports include produced by the Joe daughters.

easily in this example.

sideration in determining the some separate comment.

economically important traits but should also last several lacselected for by dairymen tations. (Heritability for test is esti-

As with milk production, per Each May while most thoughts what kind of herds they are cent test is also greatly inturn to Spring things, the compared in So you can see fluenced by the environment in thoughts of those involved in they are both the right kind of which the cow finds herself Re-Further study of these two difficult to evaluate a bull's bulls show, howevr, that Jack ability to affect per cent test by looking only at the daughter while Joe has a PD. for dol- level. A bull whose daughters lars of +50 or more than produce 40 per cent milk in a double that of Jack. This means herd where the average is 42 that on the average across the per cent is probably not a test improver. However, a bull \$29 more each lactation to their whose daughters average .05 per cent more than the average test of their herdmates -, even though the daughters may be averaging only 3.8 per cent should be a real test improver.

The P.D. for per cent test The value of the new P.D. estimates what future daughsignificantly different from the for dollars can be seen quite ters of a bull will test as compared to the breed average. The second addition to the This should prove to be an ex-

Any knowledgeable dairy-Let's look at two examples P.D. for dollars, it deserves man knows that there is more

Editor's Note: The USDA re-in selecting sires based on both per cent test. While this has those interested in improving milk will not make money for their owners.

> USDA invests a great deal of to selecting bulls than simply money in preparing P.D.'s for Per cent test is one of the looking at production proofs. bulls available to darrymen. To most highly heritable of the Cows must not only milk well, overlook this information is to miss out on some of the most valuable and useful tools avail-The fact remains, however, able in the breeding of a more

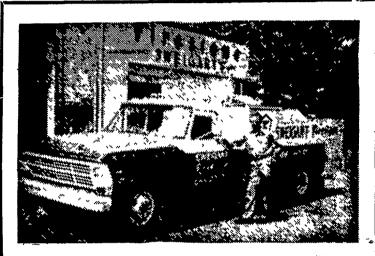
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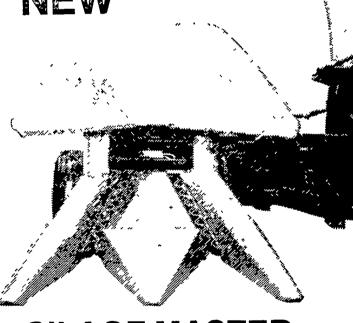


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