## Holstein Assn. adopts new ranking formula

BRATTLEBORO, VT - The Board of Directors of the Holstein Association recently approved changes in methods of calculating two basic breeding tools to improve genetic ranking of cows and bulls: the Total Performance Index (TPI) and the Predicted Difference for Type (PDT).

The Board endorsed a recommendation of the Genetic Advancement Committee to implement a new TPI formula based on protein and fat yields, plus type, in a 2:2:1 ratio. New TPIs using

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this formula will be reported on animals as a result of the sire summary run of July, 1986.

The new TPI rankings will realign genetic values to reflect the demands of domestic and international markets. In these markets, there has been a shift from fluid milk pricing to component yield pricing. This, along with an increase in the numbers of dairymen on protein testing programs, indicated the need for a change in the calculation of animal total performance indexes to help

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The Total Performance Index, introduced by the Holstein Association in 1976, has found broad acceptance among dairymen as a primary screening tool for sire and cow selection. TPI provides a single industry standard for uniform comparison of animals across a wide range of management and economic conditions.

TPI values are calculated from production and type trait indexes

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on registered animals and are listed in the performance files of the Association.

Holstein Association's Board of Directors approved the use of first record classification scores (closest to 30 months of age) in the **BLUP-PDT evaluation procedures** for the July 1986 sire summary run. Currently, PDTs are based on cows' most recent classification scores. BLUP is a statistical procedure which permits the ranking of bulls for transmitting ability of functional type, taking into account genetic trend and the genetic level of herdmates.

Research conducted by the Holstein Association, in cooperation with the University of Wisconsin, shows first lactation classification scores are a better standard of comparison.

Research results demonstrated a dramatic improvement in the ability of pedigree indexes, based on first records, to predict the

predicting the durability of a bull's daughter. Studies are being conducted to develop a measure of durability.

A high percentage of breeding and genetic decisions is currently made on first lactation information, i.e., whether a bull should go into A.I. service. Last records tend to compare relatively unselected younger cows with highly selected older cows. Consequently, the most recent classification records tend to favor older bulls, bias downward young bulls and inhibit the estimate of genetic trend for final score.

Action by the Holstein Association Board to improve PDTs and TPIs should help breeders achieve higher success with genetics in their herds. The use of first lactation classification scores in PDT calculations is expected to stabilize bull proofs, enhance herdmate comparisons and improve accuracy of proofs on young sires. Revision of the TPI formula, to include component yields, will more nearly reflect the national breeding goals of the industry. In the end, these improved breeding tools will give dairymen the means to achieve greater profitability of their



## USDA'a quarterly hogs and pigs report is due out December 23. Although current cash prices seem relatively good, this report could indicate breeding herd expansion is taking place on farms. This can lead to lower markets during summer and fall 1986.

Sound marketing strategy would be to take advantage of current Futures market to forward price at least a portion of 1986 marketing.

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