

AJCC Supports Jersey Research

REYNOLDSBURG, Ohio — Seven research projects have received funding totaling \$35,000 from The American Jersey Cattle Club Research Foundation.

Each year the AJCC Research Foundation sponsors competitive research grants to fund projects addressing significant issues for the Jersey breed and Jersey milk producers. Since the beginning, the Foundation has provided partial or full funding to approximately 10 worthy projects every year.

The AJCC Research Foundation sends out a Call For Proposals

each September for research projects to be funded the following year. The Foundation is a permanent trust operated to promote and sponsor scientific research in the dairy industry.

Six research priorities have been established by the AJCC Research Advisory Committee, including: Nutrition of high-producing Jerseys; Factors affecting yield of products manufactured from Jersey milk; Factors affecting net income, longevity, and lifetime profit; Optimal young sire usage; Biological and economics efficiencies of Jerseys;

and Factors affecting management of Jersey calves.

The projects receiving funding this year fall into four of these six categories.

Factors affecting management of Jersey Calves:

1. Epidemiology and economics of dairy heifer management practices on Jersey farms in Pennsylvania, A. J. Heinrichs, Pennsylvania State University; Prevalence of Escherichia Coli, rotavirus, and coronavirus and incidence of disease in Jersey calves, James D. Quigley III, D. A. Bemis, L. N. Potgeiter, C. R. Reinemyer and B.

W. Rohrbach, University of Tennessee; and The effect of plasma calcium concentration on neutrophil adherence and migration in Jersey cows and calves, Howard D. Tyler and Sushila J. Kapil, Iowa State University.

Factors affecting yield of products manufactured from Jersey milk:

Determination of Jersey skim milk membrane quality for prevention of culture agglutination during the manufacture of cottage cheese curd, C. L. Hicks, University of Kentucky; and Comparison of cheese manufacturing proper-

ties and cheese yield from Jersey and Holstein milk of similar protein genetic variants, Phillip S. Tong, California Polytechnic State University.

Nutrition of high-producing Jerseys:

Effect of protected amino acids on milk production and composition of Jersey cows fed whole cottonseed, Fred E. Pardue, Jean Bertrand and Thomas Jenkins, Clemson University, S.C.

Factors affecting net income, longevity, and lifetime profit:

Use of genetic markers as indicators of mastitis resistance and milk production in Jersey cattle, Stephen P. Oliver, Bhushan M. Jayarao and Arnold M. Saxton, The University of Tennessee.

The AJCC Research Foundation has made research on issues affecting Jerseys a reality. Early projects funded by the Foundation include identifying Limber Legs and Rectovaginal Constriction as genetic abnormalities inherited as autosomal recessives. Research helped develop practical ways to begin eliminating the abnormality from the population.

More recent research with long-reaching effects includes a project identifying a relationship between type traits and culling in Jersey cows.

The conclusion of the project "selection for higher production, higher udders, and closer teat placement will improve the economic efficiency of Jersey cattle more than selection on production traits alone" helped The American Jersey Cattle Club introduce a new Production-Type Index (PTI) formula in 1991.

The PTI includes a Functional Trait Index (FTI) which combines PTAs for linear traits and weighs them according to their contributions to net income, placing more emphasis on traits such as udder depth, teat placement, and rear udder height than stature and strength

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*The Top 54 U.S. Egg Producers as listed in Nov./Dec. 1991 EGG INDUSTRY

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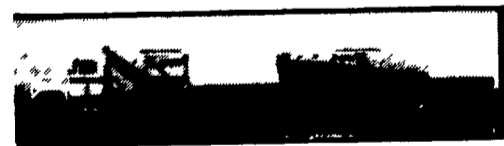
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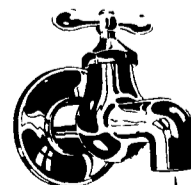


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