

Journal of Dairy Science

May 1979

Volume 62, Number 5

CONTENTS

NEWS AND EVENTS	4
GENERAL INTEREST:	
Administrative Information	3
RESEARCH PAPERS:	
Determination of Lactose in Milk Products by High-Performance Liquid Chromatography. J. R. Euber and J. R. Brunner	685
Production and Consumer Acceptance of Latin American White Cheese. R. C. Chandan, H. Marin, K. R. Nakrani, and M. D. Zehner	691
Vitamin B ₁₂ Binding Proteins in Bovine Serum. D. M. Polak, J. M. Elliot, and M. Haluska	697
Mammary Gland Development of Dairy Heifers during Their First Gestation. E. W. Swanson and J. I. Poffenbarger	702
Calcium-Containing Crystals in Alfalfa: Their Fate in Cattle. G. Ward, L. H. Harbers, and J. J. Blaha	715
Effect of a Low Chloride Diet on Lactating Holstein Cows. C. E. Coppock, R. A. Aguirre, L. E. Chase, G. B. Lake, E. A. Oltenacu, R. E. McDowell, M. J. Fettman, and M. E. Woods	723
Soybean Meal or Starea for Microbial Protein Synthesis or Milk Production with Rations Above Thirteen Percent Natural Protein. J. S. Edwards and E. E. Bartley	732
Relative Yields and Nutritive Values of Barley, Oats, and Peas Harvested at Four Successive Dates for Forage. A. L. Brundage, R. L. Taylor, and V. L. Burton	740
Feeding Cholesterol and Tallow to Young Calves. T. R. Wrenn, J. Bitman, S. Kahl, J. R. Weyant, and D. L. Wood	746
Components of Variance Associated with Service Sire for Milk Yield and Reproductive Traits. L. P. Johnson and L. D. Van Vleck	754
Fluctuations in Sire Evaluations. D. C. Bolgiano, L. D. Van Vleck, and R. W. Everett	760
Change in Adrenal Response from Free Stall Competition. T. H. Friend, F. C. Gwazdauskas, and C. E. Polan	768
Effect of Thawing Time in Warm Water on Fertility of Bovine Spermatozoa in Plastic Straws. J. O. Almquist, J. L. Rosenberger, and R. J. Branas	772

TECHNICAL NOTES:

Removal of Residual Protein from Cheese Whey Permeates by Bentonite.
E. J. Guy 776

Injury of Lactic Streptococci by Culturing in Media Containing High Phosphates.
R. A. Ledford and M. L. Speck 781

Methylmalonic Acid in Ruminant Urine – A Re-Evaluation.
J. M. Elliot, M. Haluska, J. P. Peters, and E. P. Barton 785

Nutritional Value of Brown Midrib Corn Silage for Lactating Dairy Cows.
E. A. Keith, V. F. Colenbrander, V. L. Lechtenberg, and L. F. Bauman 788

Utilization of Cotton Gin Trash by Lactating Dairy Cows.
W. H. Brown, G. D. Halbach, J. W. Stull, and F. M. Whiting. 793

Projection Factors for Goat Lactation Records.
G. R. Wiggans, L. D. Van Vleck, and F. N. Dickinson 797

OUR INDUSTRY TODAY:

Quality of Commercial Buttermilk.
P. C. Vasavada and C. H. White 802

Analysis of Forages by Infrared Reflectance.
J. S. Shenk, M. O. Westerhaus, and M. R. Hoover. 807

SYMPOSIUM: PHYSIOLOGICAL BASES FOR GENETIC IMPROVEMENT IN DAIRY CATTLE

Physiological Bases for Genetic Improvement in Dairy Cattle –
Introductory Remarks.
T. H. Blosser. 813

Endocrine Factors in Genetic Improvement of Milk Production. .
J. Gorski 814

A Review of Research on Genetic Variation in Physiological Characteristics
Related to Performance in Dairy Cattle.
C. A. Kiddy 818

SYMPOSIUM: CYTOGENETICS OF FARM ANIMALS

Distribution and Effects of the 1/29 Robertsonian Translocation in Cattle.
I. Gustavsson 825

Cytogenetic Research Techniques in Humans and Laboratory Animals
That Can Be Applied Most Profitably to Livestock.
S. Pathak 836

Cytogenetics in Animal Production.
N. S. Fechheimer. 844