

# Journal of Dairy Science

October 1982

Volume 65, Number 10

## CONTENTS

<b>NEWS AND EVENTS</b> . . . . .	4
<b>GENERAL INTEREST:</b>	
Administrative Information . . . . .	3
Call for Papers for the 1983 ADSA Annual Meeting . . . . .	2045
<b>RESEARCH PAPERS:</b>	
Stable and Unstable Casein Micelles. T.A.J. Payens . . . . .	1863
Electrophoretic and Biochemical Comparison of Casein and Whey Protein from Porcine Colostrum and Milk. W. R. Aimutis, E. T. Kornegay, and W. N. Eigel. . . . .	1874
Optimization of Whey-Based or Nonfat Dry Milk-Based Media for Production of pH Controlled Bulk Lactic Cultures. S. L. Wright and G. H. Richardson . . . . .	1882
Lipolytic Activity of <i>Syncephalastrum racemosum</i> . A. K. Chopra, H. Chander, and J. Singh. . . . .	1890
Effects of Potassium Dichromate and Sample Storage Time on Fat and Protein by Milko-Scan and on Protein and Casein by a Modified Pro-Milk Mk II Method. K. F. Ng-Kwai-Hang and J. F. Hayes . . . . .	1895
Evaluation of the Foss Mark III Milkotester for Payment of Farm Separated Cream. L. Szijarto and F. R. van de Voort . . . . .	1900
Incorporation of [Hydrogen-3] Alkylglycerolether and [Carbon-14] Hexadecanol into Bovine Colostrum and Milk Lipids. L. Ahné and D. L. Palmquist . . . . .	1905
Fractionation of Plasma Triglyceride-Rich Lipoproteins of the Dairy Cow: Evidence of Chylomicron-Size Particles. L. F. Ferreri and R. C. Elbein . . . . .	1912
Dexamethasone Concentrations in Bovine Blood Plasma and Milk After Intravenous Injection. D. Tainturier, M. Alvinerie, R. A. Brandon, and P. L. Toutain . . . . .	1921
Nutritional Status of Dairy Cows Indicated by Analysis of Blood. D. S. Kronfeld, S. Donoghue, R. L. Copp, F. M. Stearns, and R. H. Engle. . . . .	1925
Prevention of Parturient Hypocalcemia: Effect of a Single Oral Dose of 1,25-Dihydroxyvitamin D <sub>3</sub> . K. Hove and T. Kristiansen . . . . .	1934

Effects of Monensin Fed to Replacement Dairy Heifers During the Growing and Gestation Period upon Growth, Reproduction, and Subsequent Lactation.  
C. A. Baile, C. L. McLaughlin, W. V. Chalupa, D. L. Snyder, L. C. Pendlum, and E. L. Potter . . . . . 1941

In Vivo Evaluation of Brown-Midrib Corn Silage by Sheep and Lactating Dairy Cows.  
C. C. Stallings, B. M. Donaldson, J. W. Thomas, and E. C. Rossman. . . . . 1945

Response to Abomasal Infusion of Methionine of Weaned Dairy Calves Fed a Complete Pelleted Starter Ration Based on By-Product Feeds.  
C. G. Schwab, S. J. Muise, W. E. Hylton, and J. J. Moore, III. . . . . 1950

Effect of Soy Protein on Calves' Intestinal Absorptive Ability and Morphology Determined by Scanning Electron Microscopy.  
F. J. Seegraber and J. L. Morrill . . . . . 1962

Influence of Sodium Bicarbonate on Growth and Health of Young Calves.  
P. J. Eppard, D. E. Otterby, R. G. Lundquist, and J. G. Linn. . . . . 1971

Estrous Behavior and Endocrine Status of Dairy Heifers with Varied Intakes of Phosphorus.  
W. L. Hurley, L. A. Edgerton, D. Olds, and R. W. Hemken . . . . . 1979

Mastitis: Effect of pH, Temperature, and Emollients on Disinfecting Action of N,N-Dimethyldodecanamine.  
P. A. Turck, J. Bitman, and M. J. Thompson. . . . . 1987

Environmental Influences on Protein Content and Composition of Bovine Milk.  
K. F. Ng-Kwai-Hang, J. F. Hayes, J. E. Moxley, and H. G. Monardes . . . . . 1993

Comparison of First Lactations and All Lactations of Dams to Predict Sons' Milk Evaluations.  
P. A. Murphy, R. W. Everett, and L. D. Van Vleck. . . . . 1999

Anthelmintic Treatment of Nonpastured Dairy Cows in California.  
J. S. Glenn, N. F. Baker, C. E. Franti, and J. D. Ver Steeg. . . . . 2006

**TECHNICAL NOTES:**

Milk Progesterone for Pregnancy Diagnosis in Dairy Goats.  
J. A. Pennington, W. F. Hoffman, L. H. Schultz, S. L. Spahr, and J. R. Lodge. . . . . 2011

Genetic and Environmental Trends of Milk Production in a Closed Flock of Beetal Goats.  
R. N. Singh and R. M. Acharya . . . . . 2015

Computer Algorithm for the Recursive Method of Calculating Large Numerator Relationship Matrices.  
G.F.S. Hudson, R. L. Quaas, and L. D. Van Vleck . . . . . 2018

**OUR INDUSTRY TODAY:**

Considerations Necessary to Provide for Sterilized Milk and Milk Products in Hermetically Sealed, Nonrefrigerated Containers.  
E. T. McGarrahan . . . . . 2023

Development of the New Gaulin Micro-Gap™ Homogenizing Valve.  
W. D. Pandolfe . . . . . 2035

**ASSOCIATION AFFAIRS:**

Call for Papers for the 1983 ADSA Annual Meeting. . . . . 2045