

Journal of Dairy Science

December 1986

Volume 69, Number 12

CONTENTS

NEWS AND EVENTS	5
GENERAL INTEREST:	
Administrative Information.	4
Student Affiliate Division Articular.	10
Memorial — Lester Earl Casida	3165
Errata	3167
Call for Papers	3168
Author Index of Original Papers, Volume 69, 1986	3171
Subject Index of Original Papers, Volume 69, 1986	3176
DAIRY FOODS RESEARCH PAPERS:	
Manufacture of Cheddar Cheese Using Proteinase-Negative Mutants of <i>Streptococcus cremoris</i> . C. J. Oberg, L. H. Davis, G. H. Richardson, and C. A. Ernstrom	2975
Correlation of the Flavor Characteristics of Swiss-Type Cheeses with Chemical Parameters. A. Vangtal and E. G. Hammond	2982
Effect of Storage Temperature on Age Gelation of Ultra-High Temperature Milk Processed by Direct and Indirect Heating Systems. B. Manji, Y. Kakuda, and D. R. Arnott	2994
DAIRY FOODS TECHNICAL NOTES:	
Quality Assessment of Pasteurized Fluid Milk as Related to Lipopolysaccharide Content. J. R. Bishop and A. B. Bodine	3002
Milk Clotting Activity in Bovine Fetal Abomasa. S. H. Pang and C. A. Ernstrom	3005
PRODUCTION RESEARCH PAPERS:	
Induction of Lactation: Histological and Biochemical Development of Mammary Tissue and Milk Yields of Cows Injected with Estradiol-17 β and Progesterone for 21 Days. J. R. Fleming, H. H. Head, K. C. Bachman, H. N. Becker, and C. J. Wilcox	3008
Effects of Intake and Postruminal Casein Infusion on Performance and Concentrations of Hormones in Plasma of Lactating Cows. W. S. Cohick, J. L. Vicini, C. R. Staples, J. H. Clark, S. N. McCutcheon, and D. E. Bauman	3022
Regulation of Bovine Adipose Tissue Metabolism During Lactation. 1. Lipid Synthesis in Response to Increased Milk Production and Decreased Energy Intake. J. P. McNamara and J. K. Hillers	3032

Regulation of Bovine Adipose Tissue Metabolism During Lactation. 2. Lipolysis Response to Milk Production and Energy Intake. J. P. McNamara and J. K. Hillers	3042
Incorporation of Uncertainty in Composition of Feeds into Least-Cost Ration Models. 1. Single-Chance Constrained Programming. N. R. St. Pierre and W. R. Harvey	3051
Incorporation of Uncertainty in Composition of Feeds into Least-Cost Ration Models. 2. Joint-Chance Constrained Programming. N. R. St. Pierre and W. R. Harvey	3063
Uncertainty in Composition of Ingredients and Optimal Rate of Success for a Maximum Profit Total Mixed Ration. N. R. St. Pierre and W. R. Harvey	3074
Influence of Niacin and Whole Cottonseed on Intake, Milk Yield and Composition, and Systemic Responses of Dairy Cows. J. L. Horner, C. E. Coppock, G. T. Schelling, J. M. Labore, and D. H. Nave	3087
Effect of Feeding Method on Nonnutritive Oral Activities in Holstein Calves. M. B. Kopp, T. H. Friend, and G. R. Dellmeier	3094
A Further Look at Evidence for Cytoplasmic Inheritance of Production Traits in Dairy Cattle. B. W. Kennedy	3100
Group Effects and Computing Strategies for Models for Estimating Breeding Values. G. K. Robinson	3106
Relationships Between Conformation and Calving Interval in Holstein Cows. E. Dadati, B. W. Kennedy, and E. B. Burnside	3112
Relationship Between Milkability and Adrenoceptor Concentrations in Teat Tissue in Primiparous Cows. E. Roets, G. Vandeputte-Van Messom, and G. Peeters	3120
Health Care of Holsteins Selected for Large or Small Body Size. C. B. Mahoney, L. B. Hansen, C. W. Young, G. D. Marx, and J. K. Reneau	3131
Cooling Dairy Cattle by a Combination of Sprinkling and Forced Ventilation and Its Implementation in the Shelter System. I. Flamenbaum, D. Wolfenson, M. Mamen, and A. Berman	3140

PRODUCTION TECHNICAL NOTES:

Association of Bovine Lymphocyte Antigens with Milk Fat Percentage Differences. H. C. Hines, F. R. Allaire, and M. M. Michalak	3148
Phytate Phosphorus Intake and Disappearance in the Gastrointestinal Tract of High Producing Dairy Cows. W. D. Clark, Jr., W. E. Wohlt, R. L. Gilbreath, and P. K. Zajac	3151

OUR INDUSTRY TODAY:

Use of Dairy Herd Improvement Testing Programs by Dairy Farmers. G. H. Schmidt and T. R. Smith	3156
---	------

ASSOCIATION AFFAIRS:

Student Affiliate Division Articular. 10
Memorial – Lester Earl Casida. 3165
Errata 3167
Call for Papers 3168
Author Index of Original Papers, Volume 69, 1986 3171
Subject Index of Original Papers, Volume 69, 1986 3176

NOTICE: Page Charges for Publication

The page charge per printed page is \$50 for members and \$100 for nonmembers for papers published in *Journal of Dairy Science* for papers submitted for publication after July 1, 1985.

In cases where only the authors' personal funds are available for payment, and where such payment would be a hardship, authors may request – prior to publication – a page charge waiver from the Executive Secretary, 309 W. Clark Street, Champaign, IL 61820. Authors who apply for page charge waiver may not order reprints.

FUTURE ANNUAL MEETINGS

- 1987 – University of Missouri, June 21–24
1988 – University of Alberta, Edmonton, June 26–29
1989 – Lexington, Kentucky, August 1–4
1990 – North Carolina State University, June 24–27