

Journal of Dairy Science

February 1973

Volume 56, Number 2

CONTENTS

NEWS AND EVENTS	5
GENERAL INTEREST:	
Administrative Information	3
President's Comments	4
Symposium: Milk Composition Variability and its Relation to Milk Marketing ...	263
Abstracts of Papers Presented at the Southern Divisional Meeting of ADSA	303
RESEARCH PAPERS:	
Comparison of Flavor and Physical Properties of Foam Spray-Dried Whole Milks Prepared from Concentrates Foamed with Air and with Nitrogen. A. Tamsma, F. E. Kurtz, and M. J. Pallansch	161
Nature and Cause of Yellow Film Occurring on Dairy Equipment. R. B. Maxcy	164
Effect of Freezing Rate and Thawing Rate on Milk Properties. S. J. Weese, W. V. Thayne, and D. F. Butcher	168
Isolation, Purification, and Determination of Some Chemical and Physicochemical Characteristics of Sheep Alpha _s -Casein. J. Shalichev and G. Tanev	171
α -Lactalbumin and Serum Albumin in Human Milk. Taro Nagasawa, Isao Kiyosawa, Yasuo Fukuwatari, Toru Kitayama, Masafumi Uechi, and Yukio Hyodo	177
Inhibitory Effect of Continuous Infusion of Oxytocin on Lactation in Cows. G. C. Graf, C. S. Elliott, Jr., and H. A. Randy, Jr.	181
Relationships among Mammary Nucleic Acids, Milk Yield, Serum Prolactin, and Growth Hormone in Heifers from 3 Months of Age to Lactation. H. Allen Tucker, J. A. Koprowski, and W. D. Oxender	184
Environmental Heat Exposure on Cattle Plasma Catecholamine and Glucocorticoids. M. B. Alvarez and H. D. Johnson	189
Problems in Estimating Thyroxine Secretion Rates in Cattle. E. W. Swanson and J. K. Miller	195
Motility of Spermatozoa and Control of Bacteria in Bovine Semen Diluents Containing Penicillin and Neomycin or Epicillin. N. L. Zaugg and J. O. Almquist	202
Performance of Dairy Cows Fed Propionic Acid-treated High-moisture Shelled Corn Rations for Complete Lactations. G. M. Jones	207
Performance and Milk Zinc from Low-zinc Intake in Holstein Cows. M. W. Neathery, W. J. Miller, D. M. Blackmon, and R. P. Gentry	212
Sulfur Supplementation of Urea-containing Silages and Concentrates. I. Feed Intake and Lactation Performance. D. G. Grieve, C. E. Coppock, W. G. Merrill, and H. F. Tyrrell	218

Sulfur Supplementation of Urea-containing Silages and Concentrates. II. Ration Digestibility, Nitrogen, and Sulfur Balances. D. G. Grieve, W. G. Merrill, and C. E. Coppock	224
Formaldehyde and Formic Acid as a Silage Additive. D. R. Waldo, J. E. Keys, Jr., and C. H. Gordon	229
Digestibility of Roughage Materials Ensiled with Sodium Chlorite. H. K. Goering, L. W. Smith, P. J. Van Soest, and C. H. Gordon	233
Ammonia Kills Spoilage Molds in Corn. R. J. Bothast, E. B. Lancaster, and C. W. Hesseltine	241
Vitamin E Supplementation During Acute Hypovitaminosis A of the Calf. J. E. Rousseau, Jr., K. C. Hayes, R. J. Cousins, H. D. Eaton, Margaret H. Burns, and R. C. Hall, Jr.	246

TECHNICAL NOTES:

Sodium and Potassium in Supraspinatus Muscle from Hypervitaminotic A Holstein Calves. R. C. Hall, Jr., J. E. Rousseau, Jr., E. J. Gorgacz, and H. D. Eaton	252
Selected Physico-Chemical Characteristics of Bovine Colostrum Immunoglobulin. S. Kumar and E. M. Mikolajcik	255
Blood Fatty Acids and Glycerol Response to Diet and Norepinephrine. K. S. Sidhu and R. S. Emery	258
Luteinizing Hormone, Prolactin, and Interval to Ovulation After Melengestrol Acetate in Cattle. R. P. Wettemann, H. D. Hafs, and D. A. Morrow	261

SYMPOSIUM:

Milk Composition Variability and its Relation to Milk Marketing. D. M. Graham	263
Variations in Composition of Fluid Milk Products to Consumer. U. Grant Grayson	264
Genetic and Environmental Changes Possible in Milk Composition. Stanley N. Gaunt	270
Testing Program for Maintenance of Minimum Standards of Solids-not-fat or Protein in Milk. J. W. Sherbon and G. E. Houghton	279
Effects of Varying Nonfat Solids and Fat on Consumer Acceptance of Milk Beverages. J. E. Devero	286
Double Standardized Whole Milk for Increased Beverage Consumption. D. H. Jacobsen	292
Marketing Milk of Variable Composition. H. Alan Luke	294
Pricing Systems as Related to Milk Composition Variability. Stewart Johnson	297

ASSOCIATION AFFAIRS:

Abstracts of Papers Presented at the Southern Divisional Meeting of the American Dairy Science Association	303
---	-----