

CONTENTS

JANUARY. No. 1

The Influence of the Use of Butter on the Freezing Properties of Ice Cream Mix. Randall Whitaker.....	1
The Physiological Effect of Pituitary Extract (Posterior Lobe) on the Lactating Mammary Gland. Chas. W. Turner and I. S. Slaughter.....	8
Color of Evaporated Milks. Byron H. Webb and George E. Holm.....	25
A Comparison of the Volumetric and Gravimetric Methods for Bacteriological Examination of Ice Cream. A. C. Fay.....	40
Some Factors Influencing the Volume of Foam on Milk. F. P. Sanmann and H. A. Ruehe.....	48
Variations in <i>Streptococcus Lactis</i> . B. W. Hammer.....	64
Observations on Ropiness in Butter Cultures. B. W. Hammer.....	69
Minutes of Meeting of Advanced Registry Section, American Dairy Science Association.....	78

MARCH. No. 2

The Reliability of Bi-monthly Tests. Warren Gifford.....	81
The Effect of Lactose on the Survival of <i>Escherichia coli</i> When Heated to 145°F. for Thirty Minutes. E. Arthur Beavens.....	91
The <i>Escherichia-Aerobacter</i> Group as an Index to Proper Pasteurization. E. Arthur Beavens.....	94
Mineral Supplements for Dairy Cows. J. B. Lindsey and J. G. Archibald.....	102
The Influence of Molasses and Sodium Chloride in Dairy Rations on the Lactose and Chloride Content and Taste of Milk. C. L. Roadhouse and J. L. Henderson.....	117
Factors Influencing the Properties of Fermented Reconstructed Milk. Wm. H. E. Reid and F. F. Welch.....	124
α and β Lactose in Some Milk Products. H. C. Troy and Paul Francis Sharp..	140

MAY. No. 3

The Sterilization of Sweet Cream for Market Purposes. B. H. Webb.....	159
The Feed Requirements and the Feed Cost of the Dairy Sire. O. G. Schaefer and C. H. Eckles.....	165
Normal Variations in the Inorganic Phosphorus of the Blood of Dairy Cattle. L. S. Palmer, W. S. Cunningham and C. H. Eckles.....	174
A Study of the Relation between the Time a Cow is Carried in Utero and Her Mature Equivalent Butterfat Production. J. P. LaMaster and E. C. Elting.....	196
Some Observations on Processed Cheese. Hugh L. Templeton and H. H. Sommer.....	203
Studies on Oxidation-Reduction in Milk. The Methylene Blue Reduction Test. H. R. Thornton and E. G. Hastings.....	221

Studies on the Nutritive Value of Milk. IV. The Supplementary Value of Yeast in Nutritional Anemia of Albino Rats. W. E. Krauss.....	246
Length of Gestations in Jersey Cows. Lynn Copeland.....	257
Quantitative Changes in the Microflora of Butter During Storage. H. Macy.....	266

JULY. NO. 4

Significance of Colon-Aerogenes Group in Ice Cream. I. Survival of Members of the Escherichia-Aerobacter Group to Pasteurizing Temperatures in Ice Cream. F. W. Fabian and E. W. Coulter.....	273
A Case of Sandiness in Processed Cheese. H. H. Sommer.....	288
Optimum Amount of Silage in the Dairy Ration for Most Economical Production. Avery D. Pratt and George C. White.....	291
Thlaspi Arvense (French Weed) in Relation to Dairy Products. C. H. Eckles, W. B. Combs and Paul Derby.....	308
Grades and Methods of Analysis of Dry Skim Milk. E. C. Thompson, W. S. Slemmons and R. S. Fleming.....	319
Studies on the Chemical Composition of Bovine Blood. Arthur K. Anderson, Howard E. Gayley and Avery D. Pratt.....	336
Book Reviews.....	349

SEPTEMBER. No. 5

Normal Variations in the Calcium Content of the Blood of Dairy Cattle. L. S. Palmer and C. H. Eckles.....	351
The Biometry of Calcium and Inorganic Phosphorus in the Blood Plasma of Dairy Cattle. Application of Results to Bone Mineralization. L. S. Palmer, R. A. Gortner and Rachel Rude.....	360
Effect of the Electropure Process and of the Holding Method of Treating Milk upon Bacterial Endospores. A. J. Gelpi, Jr., and E. D. Devereux... ..	368
Measuring the Influence of Hormone and Mechanical Stimulation by Means of a Non-Fecund Lactation. R. B. Becker and P. C. McGilliard.....	372
The Chemical Analysis of Butter.....	380
Suggested Methods for the Microbiological Analysis of Butter.....	394
The Effect of Initial Cooling Temperature on Gelatin in the Aging of the Ice Cream Mix. K. E. Wright.....	406

NOVEMBER. No. 6

Relation between Titratable Acidity and Hydrogen Ion Concentration of Ice Cream Mixes. C. D. Dahle, W. K. Budge and J. I. Keith.....	417
Effect of a Diet of Sweet Clover on the Calcium in the Blood Serum. C. Y. Cannon and Delbert Greenwood.....	424
The Calcium and Phosphorus Metabolism of Heavily Milking Cows. C. F. Huffman, C. S. Robinson and O. B. Winter.....	432
A Study of the Bacterial Content of the Fore Milk of Cows. Jack Faber.....	449
The Effect of Lipins on the Fat Test of Buttermilk. E. W. Bird and G. C. Sands.....	453
Air in Butter. E. S. Guthrie.....	461

CONTENTS

v

A New Form of Lactose Crystal Found in Sandy Ice Cream. O. E. Williams and P. N. Peter.....	471
Cottonseed Meal Studies. III. Heavy Feeding of Cottonseed Meal to Dairy Cattle during Reproduction and Lactation. C. F. Huffman and L. A. Moore.....	478
Fat Soluble Vitamins. XXXI. Butter Fat: Its Antirachitic Properties and Its Artificial Activation. H. Steenbock and Alice M. Wirick with the cooperation of Blanche M. Riising.....	497
Seasonal Variations in Certain Inorganic Constituents of Dry Milk Produced in New York and Wisconsin. G. C. Supplee.....	522
Proceedings of the Twenty-Fifth Annual Meeting of the American Dairy Science Association.....	528
Index.....	539