

CONTENTS

JANUARY. No. 1

A Study of the Proteolytic Action of Specific Organisms and Groups of Organisms in Butter Made from Graded Cream. George Spitzer and E. H. Parfitt.....	1
The Use of Citric Acid and Sodium Citrate in Starter Cultures. Hugh L. Templeton and H. H. Sommer.....	21
A Study of the Factors Affecting the Growth of Dairy Heifers. Part II. C. B. Bender and J. W. Bartlett.....	37
A Study of the Effectiveness of Sodium Hypochlorite in Sterilizing Creamery Equipment. E. L. Fouts.....	51
The Relation between Weight and Fat Production of Guernsey Cattle. Charles W. Turner.....	60
Studies on the Nutritive Value of Milk. I. The Production of Nutritional Anemia in Albino Rats through Exclusive Whole Milk Diets. W. E. Krauss.....	74
The Relations of Temperature and Time of Forewarming of Milk to the Heat Stability of Its Evaporated Product. E. F. Deysher, B. H. Webb and George E. Holm.....	80
The Nutritional Value of Copper in Powdered Whole Milk. R. W. Titus and J. S. Hughes.....	90

MARCH. No. 2

The Application of Steam for Heating and Sterilizing Dairy Equipment. A. W. Farrall.....	95
Proteolysis by <i>Streptococcus lactis</i> . L. T. Anderegg and B. W. Hammer....	114
The Effects of Certain Salts on the Physical Properties of Ice Cream Mixes. J. C. Hening and A. C. Dahlberg.....	129
Metals in Dairy Equipment. Metallic Corrosion in Milk Products and Its Effect on Flavor. O. F. Hunziker, W. A. Cordes, and B. H. Nissen.....	140
The Bacterial Count of Ice Cream Held at Freezing Temperatures. John Weinzirl and Alice E. Gerdeman.....	182

MAY. No. 3

Arthur Christopher Baer, 1884-1929.....	191
The Use of Egg Yolk in Ice Cream. W. H. Martin and W. J. Caulfield....	193
The Ability of <i>Escherichia coli</i> and <i>Serratia marcescens</i> to Survive 62.8°C., for Thirty Minutes in Milk. Fred W. Tanner and Mary F. Windsor.....	202
Some Factors Affecting the Fat Clumping Produced in Milk and Cream Mixtures When Homogenized. F. J. Doan.....	211
The Antirachitic Value of Irradiated Ice Cream. Walter C. Russell, Forrest C. Button, and Orme J. Kahlenberg.....	231
Studies on the Nutritive Value of Milk. W. E. Krauss.....	242

Metals in Dairy Equipment. O. F. Hunziker, W. A. Cordes, and B. H. Nissen.....	252
A Device for Reducing an Ice Cream Mix to Its Basic Viscosity. Randall Whitaker.....	285

JULY. No. 4

The Relation of the Hydrogen-ion Concentration to the Texture of Emmenthal or Swiss Cheese. Paul D. Watson.....	289
The Comparative Accuracy of the Direct Microscopic and Agar Plate Methods in Determining Numbers of Bacteria in Milk. James D. Brew.....	304
The Use of Dehydrated Egg Products in the Manufacture of Ice Cream. William S. Mueller and Forrest C. Button.....	320
A Suggested Simplification of the Present System of Official Testing with the Dairy Breeds of Cattle. R. B. Becker and P. C. McGilliard.....	337
The Mold and Yeast Count as an Index of the Keeping Quality of Butter. H. Macy and H. B. Richie.....	351

SEPTEMBER. No. 5

A Comparison of the Bromthymol Blue Milk Test and the Methylene Blue Reduction Test for Determining Quality of Milk. E. D. Devereux.....	367
A Survey of Present Methods of Grading Milk at Condenseries, Evaporated and Dry Milk Plants.....	374
A Color Defect of Process Cheese. Walter V. Price.....	377
Copper in Dairy Products and Its Solution under Various Conditions. II. J. Miscall, G. W. Cavanaugh and P. P. Carodemos.....	379
An Unappreciated but Important Factor in the Pasteurization of Milk. J. M. Sherman, C. N. Stark and Pauline Stark.....	385
Further Studies of the Rôle of Vitamin C in the Nutrition of Calves. L. M. Thurston, L. S. Palmer and C. H. Eckles.....	394
The Solubility of Calcium Phosphate in Fresh Milk. E. O. Whittier.....	405
Effect of Cottonseed Meal and Linseed Oil Meal on the Consistency of Feces of Dairy Cattle. C. F. Huffman and L. A. Moore.....	410
Book Reviews.....	419

NOVEMBER. No. 6

Contribution to the Knowledge of the Taste of Milk. C. L. Roadhouse and G. A. Koestler.....	421
Studies on the Nutritive Value of Milk. III. The supplementary Value of Various Constituents of Synthetic Basal Rations. W. E. Krauss.....	438
The Physiological Effect of Rations Restricted Principally or Solely to the Alfalfa Plant. I. The Calcium, Phosphorus and Nitrogen Metabolism of Dairy Cattle. J. R. Haag, J. S. Jones, I. R. Jones and P. M. Brandt.....	445
The Calculation of Absolute Viscosity from Data Secured by Means of the Torsion Pendulum Viscosimeter. Randall Whitaker and B. L. Herrington.....	456
Effect of Heat (Oestrus) on Butterfat Percentage and Milk Yield. Lynn Copeland.....	464

CONTENTS

vii

The Use of the Mojonnier Milk Tester for the Routine Determination of Vanillin with Preliminary Discussion of the Towl Lead Number. L. V. Towl.....	469
A Comparison of the Modified Babcock and the Mojonnier Methods for Butterfat in Ice Cream. E. S. Chase and F. G. King.....	473
Variations in the Milk from Different Quarters of the Same Udder: Their Significance in Studies of Coagulability. Anne G. Benton.....	481
Seasonal Variations in the Freezing Point of Milk. J. H. Buchanan and O. E. Lowman.....	484
The Ovarian Hormone Content of Pregnant Cow's Urine. C. W. Nibler and Chas. W. Turner.....	491
Proceedings of the Annual Meeting of the American Dairy Science Association.....	507
Index.....	513