

# JOURNAL OF DAIRY SCIENCE

## Contents

<i>Type, Body Size and Breeding Efficiency of Ayrshire Cow Families.</i> KENNETH A. TABLER, W. J. TYLER AND GEORGE HYATT, JR. ....	95
<i>Properties of the Colostrum of the Dairy Cow. VI. Creaming and Rate of Flow.</i> E. G. MOODY, G. H. WISE, D. B. PARRISH AND F. W. ATKESON .....	106
<i>Effects of Added Hyaluronidase and Hyaluronic Acid on the Motility of Bull Spermatozoa.</i> JAMES E. JOHNSTON AND JOHN P. MIXNER .....	116
<i>Improved Methods in the Recovery of Lactose Using Ion Exchange Resins.</i> E. D. MCGLOSSON AND J. C. BOYD .....	119
<i>A Comparison of U. S. No. 2 Field-cured Field-baled Alfalfa Hay with Artificially Dried and Ground and Pelleted Alfalfa Hays as a Source of Carotene and Roughage for Holstein Calves.</i> H. D. EATON, C. A. CARPENTER, R. J. CAVERNO, R. E. JOHNSON AND F. I. ELLIOTT .....	124
<i>A Comparison of Dry Sweet Cream Buttermilk and Non-fat Dry Milk Solids in Breadingmaking.</i> J. V. REGER, W. B. COMBS, S. T. COULTER AND R. B. KOCH .....	136
<i>B-Vitamin Studies in Calves. I. The Relation between Age of Calf and Levels of Thiamine, Riboflavin and Nicotinic Acid Found in the Digestive Tract.</i> E. M. KESLER AND C. B. KNODT .....	145
<i>A Comparison of Comfort and Tie-chain Stalls.</i> I. D. PORTER-FIELD, GEORGE HYATT, JR., D. P. BROWN AND A. D. LONGHOUSE .....	149
<i>Type Differences and Blood Antigens in a Guernsey Herd.</i> A. A. DUNLOP .....	154
<i>Abstracts of Literature</i> .....	A11
<i>Association Announcement</i> .....	A17

Vol. XXXIV, No. 2, February, 1951

Published by the  
AMERICAN DAIRY SCIENCE ASSOCIATION