

CONTENTS

	<i>Page</i>
The Relationship of Serum Protein Bound Iodine Levels to Rates of Gain in Beef Cattle. H. O. Kunkel, R. W. Colby and Carl M. Lyman.....	3
Repeatability, Heritability and the Effect of Level of Milk Production on the Occurrence of First Estrus After Calving in Dairy Cattle. Durward Olds and D. M. Seath.....	10
Effect of Sulfur Dioxide-Silage on Vitamin Excretion by Ruminants. A. E. Teeri, D. Josse-lynn, N. F. Colovos and H. A. Keener.....	15
Terramycin Supplement for Dairy Calves. A. M. MacKay, W. H. Riddell and R. Fitzsimmons.....	19
The Effect of Feeding Sucrose to Beef Cattle and Swine on the Dressing Percentage and Quality of Meat. E. B. Wilcox, M. B. Merkley, L. S. Galloway, D. A. Greenwood, W. Binns, J. A. Bennett and L. E. Harris.....	24
Occurrence of Estrus in Sows Following Parturition. L. N. Baker, H. L. Woehling, L. E. Casida and R. H. Grummer.....	33
Heritability of Gain in Different Growth Periods of Swine. Cecil T. Blunn, Guy N. Baker and L. E. Hanson.....	39
Effects of Certain Antibiotics and Vitamin B ₁₂ on Pantothenic Acid Requirements of Growing-Fattening Swine. Damon V. Catron, Robert W. Bennisson, Helen M. Maddock, Gordon C. Ashton and Paul G. Homeyer.....	51
Development of Practical Synthetic Milk Formulas for Baby Pigs. Damon V. Catron, Leroy F. Nelson, Gordon C. Ashton and Helen M. Maddock.....	62
Dehydrated Alfalfa and Antibiotic Supplements in Gestation-Lactation Rations for Swine. J. G. De Pape, William H. Burkitt and A. E. Flower.....	77
Raising Baby Pigs on Dried Skim Milk: Effect of the Addition of Aureomycin and of Lard. Harold E. Schendel and B. Connor Johnson.....	84
Comparison of Anti-Bacterial and Anti-Yeast-Mold Antibiotics with Baby Pigs in the Presence of Several Levels of B Vitamins. Harold E. Schendel and B. Connor Johnson...	88
Penicillin and Streptomycin Affect the Microflora of the Intestinal Tract of Pigs. J. H. Bridges, I. A. Dyer and J. J. Powers.....	96
Supplementation of a Corn-Meal and Bone Scrap Ration for Weanling Pigs. R. E. Bloss, R. W. Luecke, J. A. Hoefler, F. Thorp, Jr. and W. N. McMillen.....	102
The Influence of Heat Treatment and Solvent Upon the Nutritive Value of Soybean Oil Meal for Swine. D. E. Becker, C. R. Adams, S. W. Terrill and R. J. Meade.....	107
Transmittance of Foreign Organic Compounds from the Feed to the Flesh of Swine. Paavo Roine, Matti Antila and Inkeri Suhonen.....	117
Experimental Test of Predictions of Inbred Line Performance in Crosses. James V. Craig and A. B. Chapman.....	124
Environmental Factors Affecting Body Size and Conformation in Rambouillet Yearling Ewes. Daniel W. Cassard, P. W. Gregory, J. F. Wilson, W. C. Rollins and W. C. Weir...	140
Selecting Lambs Under Farm Flock Conditions. H. A. Karam, A. B. Chapman and A. L. Pope.....	148
A Rapid Method for the Estimation of Clean Fleece Weight with the Aid of a New Wool Density Device. Khalid T. Ali, P. E. Neale and William D. McFadden.....	165
The Effects of Hormones on the Growth and Fattening of Lambs. T. M. Means, F. N. Andrews and W. M. Beeson.....	176
The Effects of Various Methods of Estrogen Administration on the Growth and Fattening of Wether Lambs. F. N. Andrews and W. M. Beeson.....	182
Protein Requirements of Ewes During Breeding and Pregnancy. Earle W. Klosterman, D. W. Bolin, M. L. Buchanan, F. M. Bolin and W. E. Dinusson.....	188
The Utilization of Ammoniated Industrial By-Products and Urea by Sheep. A. D. Tillman and R. W. Swift.....	201
The Fecal and Urinary Excretion of Certain B Vitamins by Sheep Fed Hay and Semi-Synthetic Rations. P. B. Pearson, Lee Struglia and Ivan L. Lindahl.....	213
The Use of Salt as a Regulator of Protein Supplement Intake by Breeding Ewes. W. C. Weir and R. F. Miller, Jr.....	219
Proceedings of the Forty-Fourth Annual Meeting of the Society.....	226
President's Address.....	226
Minutes of the Business Meeting.....	227
Memorials.....	235
A. D. Weber Portrait.....	238
1952 Morrison Award.....	241
1952 American Feed Manufacturers Association Award.....	243
Chairmen of Committees and Programs and Special Assignments for 1953.....	244
News and Notes.....	245

Contents of previous issues of the JOURNAL OF ANIMAL SCIENCE are indexed in the Agricultural Index which is available in most libraries and in the November issue of each complete volume of the JOURNAL.