

Journal of **ANIMAL SCIENCE**

VOLUME 37

OCTOBER 1973

NUMBER 4

TABLE OF CONTENTS

	<i>Page</i>
Meat Science and Muscle Biology	
Influence of Muscle Quality on the Relative Weight Loss and Palatability of Intact and Dissected Dry-Cured Hams. <i>W. R. Henning, W. G. Moody, James D. Kemp and J. D. Fox</i>	879
Observations on the Postmortem Histochemistry of Myofibers from Stress-Susceptible Pigs. <i>H. J. Swatland and R. G. Cassens</i>	885
Body and Carcass Composition of Targhee and Finn-Targhee Lambs. <i>P. V. Rattray, W. N. Garrett, H. H. Meyer, G. E. Bradford, N. E. East and N. Hinman</i>	892
Nonruminant Nutrition	
Simplified Diets Based on Barley for Reproducing Swine. <i>L. G. Young, R. P. Forshaw and G. C. Smith</i>	898
Influence of Dietary Calcium and Phosphorus Levels on the Performance and Bone Characteristics of Growing-Finishing Swine. <i>W. L. Stockland and L. G. Blaylock</i>	906
Copper, Molybdenum and Sulfate Interaction in Young Swine. <i>S. E. Dale, R. D. Ewan, V. C. Speer and Dean R. Zimmerman</i>	913
Chemotherapeutics for Pigs. <i>A. J. Clawson and W. L. Alsmeyer</i>	918
Magnesium, Calcium and Phosphorus Metabolism in Ponies Fed Varying Levels of Magnesium. <i>H. F. Hintz and H. F. Schryver</i>	927
Energy and Protein Digestibility of Sorghum Grains with Different Endosperm Textures and Starch Types by Growing Swine. <i>Robert S. Cohen and Thomas D. Tanksley, Jr.</i>	931
Related Effects of Copper, Molybdenum and Sulfide on Performance, Hematology and Copper Stores of Growing Pigs. <i>R. K. Kline, M. A. Corzo, V. W. Hays and G. L. Cromwell</i>	936
Selenium Balance in the Pig as Affected by Selenium Source and Vitamin E. <i>A. W. Groce, E. R. Miller, J. P. Hitchcock, D. E. Ullrey and W. T. Magee</i>	942
Selenium Requirements in Corn-Soy Diets for Growing-Finishing Swine. <i>A. W. Groce, E. R. Miller, D. E. Ullrey, P. K. Ku, K. K. Keahey and D. J. Ellis</i> ..	948

Physiology and Endocrinology

Route of Progestagen Administration to the Ewe and Spermicidal Action in the Vagina at the Ensuing Estrus. <i>H. W. Hawk and H. H. Conley</i>	957
Plasma Estrogens in Pregnant and Postpartum Mares. <i>Torrance M. Nett, Donald W. Holtan and V. Liné Estergreen</i>	962
Maintenance of Pregnancy in Prepuberal Gilts. <i>A. R. Ellicott, P. J. Dziuk and C. Polge</i>	971
Association of Blood and Bone Composition and PostMortem Muscle Changes to Leg Weakness in Dutch Landrace Swine. <i>G. M. Weiss, Th.P. Dekker, G. vanPutten and W. Sybesma</i>	974
Blood Serum Testosterone after Sexual Preparation or Ejaculation, or after Injections of LH or Prolactin in Bulls. <i>O. W. Smith, K. Mongkonpunya, H. D. Hafs, E. M. Convey and W. D. Oxender</i>	979
Endocrine Response after GnRH in Luteal Phase Cows and Cows with Ovarian Follicular Cysts. <i>Roger J. Kittok, Jack H. Britt and Edward M. Convey</i> ...	985
Luteolysis Following a Single Injection of Prostaglandin F _{2α} in Sheep. <i>R. H. Douglas and O. J. Ginther</i>	990

Ruminant Nutrition

Changes in Carbohydrate and Nitrogen Fractions and Digestibility of Forages: Maturity and Ensiling. <i>Michael M. Danley and R. L. Vetter</i>	994
Intraruminal Urea Infusion and Abomasal Amino Acid Passage. <i>F. N. Owens, W. M. Knight and K. O. Nimrick</i>	1000
Waxy Corn and Nitrogen Sources for Finishing Lambs and Steers Fed All-Concentrate Rations. <i>W. L. Braman, E. E. Hatfield, F. N. Owens and J. D. Rincker</i>	1010
Intake and Digestibility by Lambs of Low-Quality Sudan-Grass Hay Supplemented with Mineral Mixtures Having Different Acid-Alkali Ash Values. <i>R. M. Koes and W. H. Pfander</i>	1018
Chemically Degraded Wood in Finishing Beef Cattle Rations. <i>S. D. Clarke and I. A. Dyer</i>	1022
Biuretolytic Activity of Rumen Microorganisms as Influenced by the Frequency of Feeding Biuret Supplement. <i>E. T. Clemens and R. R. Johnson</i> ..	1027
Postruminal Supplemental Methionine Infusion to Sheep Fed High Quality Diets. <i>G. T. Schelling, J. E. Chandler and G. C. Scott</i>	1034
Growth and Reproductive Performance of Beef Females Fed High Urea-Containing Diets. <i>James Bond and Robert R. Oltjen</i>	1040

Other

Symposium—Starch Utilization in Ruminants	
Chemical and Physical Properties of Starch. <i>Dexter French</i>	1048
Extent and Partition of Cereal Grain Starch Digestion in Ruminants. <i>D.R. Waldo</i>	1062
Influence of Processing on the Utilization of Grains (Starch) by Ruminants. <i>W. H. Hale</i>	1075
Placement	1081
News and Notes	1082