

# JOURNAL OF ANIMAL SCIENCE

WALTER R. HARVEY, *Editor-in-Chief* (1975) \*

CLAUDE J. CRUSE, *Business Manager*

## Section Editors

WALTER R. HARVEY—*Applied Animal Science and Teaching* (1975)  
O. W. ROBISON—*Breeding and Genetics* (1975)  
R. A. MERKEL—*Meat Science and Muscle Biology* (1976)  
W. G. POND—*Nonruminant Nutrition* (1974)  
E. K. INSKEEP—*Physiology and Endocrinology* (1974)  
R. R. OLTJEN—*Ruminant Nutrition* (1975)

## Editorial Board

EUGENE ALLEN (1974)	R. C. EWAN (1974)	PAUL W. MOE (1975)
C. B. AMMERMAN (1976)	R. A. FIELD (1974)	WILLIAM G. MOODY (1975)
W. B. ANTHONY (1976)	L. T. FROBISH (1974)	A. B. NELSON (1974)
C. M. BAILEY (1974)	O. J. GINTHER (1975)	FREDRIC N. OWENS (1976)
J. P. BAKER (1974)	RICHARD GOODRICH (1974)	A. Z. PALMER (1976)
R. L. BALDWIN (1974)	HAROLD D. HAFS (1975)	ERNEST R. PEO, JR. (1976)
R. A. BELLOWS (1975)	W. D. HOHENBOKEN (1975)	B. W. PICKETT (1974)
D. L. BLACK (1976)	CLARENCE V. HULET (1976)	GERALD T. SCHELLING (1975)
B. E. BRENT (1974)	A. H. JENSEN (1975)	W. L. SINGLETON (1974)
C. C. BROOKS (1976)	NAT M. KIEFFER (1974)	FREDRICK STORMSHAK (1975)
Z. L. CARPENTER (1975)	TERRY KLOFFENSTEIN (1975)	R. L. VETTER (1974)
LAUREN L. CHRISTIAN (1976)	E. T. KORNEGAY (1975)	DONALD G. WAGNER (1976)
GARY L. CROMWELL (1976)	D. H. KROPP (1976)	CHARLES O. WOODY (1976)
JOE L. EVANS (1975)	J. W. LASSITER (1975)	

\* Terms expire on December 31 of year indicated.

## OFFICERS OF THE AMERICAN SOCIETY OF ANIMAL SCIENCE

F. H. BAKER, <i>President</i>	W. G. POND, <i>Northeastern Director</i>
V. R. BOHMAN, <i>Vice-President</i>	D. E. YOUNKIN, <i>Northeastern Director</i>
T. J. MARLOWE, <i>Secretary-Treasurer</i>	MARVIN KOGER, <i>Southern Director</i>
G. P. LOFGREEN, <i>Director-at-Large</i>	S. L. HANSARD, <i>Southern Director</i>
V. C. SPEER, <i>Midwestern Director</i>	D. M. BOWDEN, <i>Western Director</i>
HOWARD TEAGUE, <i>Midwestern Director</i>	R. L. BLACKWELL, <i>Western Director</i>

**Subscriptions.** Correspondence concerning subscriptions, purchase of single copies and back issues and related business should be addressed to the Business Manager, Claude Cruse, 425 Illinois Bldg., 113 North Neil St., Champaign, Illinois 61820. Subscription price for nonmembers for Volume 32 and Volume 33, (1971) is \$24.00 in U.S. and Canada, \$24.50 in rest of North and South America, and \$25.00 in other places. Checks should be made payable to the American Society of Animal Science. Foreign subscribers are requested to remit by international money order or by a draft on a New York bank.

**Address Change.** Notice of change in address should be received by the Business Manager. Lost copies, owing to change of address, cannot be supplied unless adequate notice has been given.

**Missing Copies.** Claims for missing copies should be sent to the Business Manager within 30 days (90 days foreign) of publication date to insure replacement copies at no charge.

**Membership.** Application is invited from persons with interest in animal science and livestock production. The Vice President of the Society is Chairman of the Membership Committee. Annual dues in the Society, which includes the Journal of Animal Science, are \$20.00 in U.S. and Canada, \$20.50 in rest of North and South America and \$21.00 in other countries. Student Affiliate Membership to those who are certified by a Professional member as a regularly enrolled college student who does not hold a full-time position at the time of application for, or annual renewal of, affiliate membership, \$10.00 annually which includes receipt of the Journal of Animal Science. Applications for membership with remittance should be mailed to the Business Manager, A.S.A.S., 113 N. Neil St., Champaign, IL 61820.

**Manuscripts.** Address manuscripts and correspondence concerning them to the Editor-in-Chief Walter R. Harvey, Department of Dairy Science, 625 Stadium Drive, Ohio State University, Columbus, Ohio 43210. At least one of the authors of a manuscript must be a member of the Society. Publication of papers by nonmembers requires the approval of the Executive Committee. See "Information for Contributors" on back cover and "Style and Form for Journal of Animal Science" in J. Anim. Sci. 29:850, 1969, for the standard requirements for Journal papers.

**Reprints.** Reprints of papers in the Journal are obtainable only from the authors or their institutions. Authors of papers accepted for publication are required to make a minimal purchase of 100 reprints.

**News and Notes.** Announcements about meetings, personnel changes and other items of interest to the Society may be sent directly to the Editor.

*Second-class postage* paid at Champaign, Ill. 61820 and at additional mailing offices.

Copyright 1974 by AMERICAN SOCIETY OF ANIMAL SCIENCE. Printed in the U.S.A. All rights reserved. Reproduction in part or whole prohibited.

Boyd Printing Company, Inc., 49 Sheridan Ave., Albany, N. Y. 12210