

# JOURNAL OF DAIRY SCIENCE

OFFICIAL PUBLICATION OF THE  
AMERICAN DAIRY SCIENCE ASSOCIATION

E. O. HERREID, Editor-in-Chief, University of Illinois  
Editorial Address: Station A, Box 718, Champaign, Illinois  
Phone: EMpire 7-7073

## EDITORIAL BOARD

C. K. JOHNS Ottawa, Canada	H. D. EATON Storrs, Conn.	R. E. ELY Reno, Nevada	F. A. KUMMEROW Urbana, Ill.
N. L. JACOBSON Ames, Iowa	ROBERT JENNESS St. Paul, Minn.	J. J. JEZESKI St. Paul, Minn.	J. E. LEGATES Raleigh, N. C.
J. P. MIXNER Sussex, N. J.	DURWARD OLDS Lexington, Ky.	STUART PATTON University Park, Pa.	M. L. SPECK Raleigh, N. C.
E. L. JACK Davis, Calif.	N. L. VANDEMARK Urbana, Ill.	EVERT WALLENFELDT Madison, Wis.	G. M. WARD Manhattan, Kan.
U. S. ASHWORTH Pullman, Wash.		R. W. TOUCHBERRY Urbana, Ill.	

## COMMITTEE ON JOURNAL MANAGEMENT

F. J. DOAN, Chairman

Department of Dairy Science, Pennsylvania State University, University Park, Pa.

J. F. CAVANAUGH  
E. O. HERREID, ex officio

H. A. HERMAN  
H. F. JUDKINS, ex officio

## OFFICERS OF THE ASSOCIATION

R. E. HODGSON, President  
Animal Husbandry Research Branch, USDA  
Beltsville, Md.

E. L. JACK, Vice-President  
Department of Food Science and Technology,  
University of California, Davis, Calif.

H. F. JUDKINS, Sec.-Treas.  
32 Ridgeway Circle, White Plains, N. Y.

E. O. HERREID, Journal Editor-in-Chief  
Champaign, Ill.

## DIRECTORS

S. T. COULTER  
St. Paul, Minn.

F. J. DOAN  
University Park, Pa.

A. C. FAY  
North Miami, Fla.

N. P. RALSTON  
East Lansing, Mich.

J. T. REID  
Ithaca, N. Y.

E. C. SCHEIDENHELM  
Lexington, Ky.

G. H. WISE  
Raleigh, N. C.

E. O. HERREID, ex officio

H. F. JUDKINS, ex officio

## ADMINISTRATIVE INFORMATION

### Manuscripts

Manuscripts for publication in the Journal of Dairy Science should be submitted to the editor, E. O. Herreid, at the address above. See January, 1954, issue, page 103, for information concerning the preparation of manuscripts, or send for reprint, "Information for Authors."

### Advertising

Advertising plates, copy, insertion orders, contracts, and requests for information relating to advertising in the Journal should be addressed to the Journal of Dairy Science in care of The Garrard Press, 510-522 North Hickory Street, Champaign, Illinois.

### Nonmember Subscriptions

Nonmember subscriptions are \$15.00 per volume in the United States and Canada; \$15.50 in all other countries, net and postpaid. New subscriptions and renewals begin with the first issue of the current volume. Renewals should be sent in by December 1 of the current year for the following calendar year to avoid a break in the series. Subscriptions should be sent to the Journal of Dairy Science in care of The Garrard Press, 510-522 North Hickory Street, Champaign, Illinois.

Subscriptions for the British Isles and the British Empire should be ordered through our agents: Messrs. Bailiere, Tindall and Cox, 7 and 8 Henrietta Street, Covent

Garden, London, W.C. 2, England. Subscriptions for Australia should be sent to our agent: John H. Bryant, Herbert Street, St. Leonards, N.S.W., Australia.

Changes of mailing addresses, post office notices of undeliverable copies, inquiries about copies lost in the mail, and all other matters pertaining to the mailing list for nonmember subscribers should be sent to The Journal of Dairy Science in care of The Garrard Press at the above address. Claims for copies of the Journal of Dairy Science lost in the mails must be received within 30 days (90 days foreign) of the date of issue. Notice of change of address must be received two weeks before date of issue.

### Memberships

Membership dues in the Association are \$10.00 a year and should be sent to H. F. Judkins, Secretary-Treasurer, 32 Ridgeway Circle, White Plains, New York. Renewals should be made not later than December 1 each year.

Changes of mailing addresses, inquiries about copies lost in the mail, requests for back copies and all other matters pertaining to the mailing list for members of the American Dairy Science Association should be sent to Mr. Judkins at the above address. Claims for copies of the Journal of Dairy Science lost in the mails must be received within 30 days (90 days foreign) of the date of issue. Notice of change of address must be received two weeks before date of issue.

Form 3579 to be returned to Garrard Press

Printed by The Garrard Press, 510-522 North Hickory Street, Champaign, Illinois. Entered as second-class matter at the post office at Champaign, Illinois, under the act of March 3, 1879.

Copyright, 1961, by the American Dairy Science Association. Printed in the U. S. A.