

**JOURNAL OF DAIRY
RESEARCH**

Volume 50 Number 2 May 1983

JDRSAN 50 (No. 2) 135–240 (1983) 0022–0299

NIRD/HRI

50th Volume

CAMBRIDGE UNIVERSITY PRESS

THE JOURNAL OF DAIRY RESEARCH

Editors: M. ELISABETH SHARPE, National Institute for Research
in Dairying, Shinfield, Reading RG2 9AT

W. MANSON, Hannah Research Institute, Ayr
KA6 5HL

Assistant Editors: A. T. ANDREWS, B. F. BONE, L. W. PHIPPS

Editorial Assistants: DOROTHY SKIDMORE, B. GILLIAN DAY

Secretary: L. C. FITZGERALD

The Journal was established in 1929 as a medium for the publication of the results of original research in dairy science and cognate subjects. It is published by the Cambridge University Press.

The subscription to volume 50, 1983, of the *Journal of Dairy Research* (ISSN 0022-0299) is £68.00 net (U.S.A. and Canada US \$175.00) for a volume of four parts published quarterly in February, May, August and November. Single copies may be purchased at £19.00 net (U.S.A. and Canada US \$49.50) each, plus postage. Orders which must be accompanied by payment, may be sent to any bookseller or to Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU. Subscribers in the U.S.A. or Canada should send their orders to Cambridge University Press, 32 East 57th Street, New York, N.Y. 10022. Second class postage paid at New York, N.Y. and at additional mailing offices. POSTMASTER: send address changes in U.S.A. and Canada to Cambridge University Press, 32 East 57th Street, New York, N.Y. 10022.

© Proprietors of *The Journal of Dairy Research* 1983

Copying. This journal is registered with the Copyright Clearance Center, 21 Congress Street, Salem, Mass. 01970. Organizations in the U.S.A. who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of U.S. Copyright law) subject to payment to C.C.C. of the per-copy fee of \$05.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0022-0299/83/1234-5678 \$05.00.

ISI Tear Service, 3501 Market Street, Philadelphia, Pennsylvania 19104, U.S.A., is authorized to supply single copies of separate articles for private use only.

For all other use, permission should be sought from the Cambridge or New York offices of the Cambridge University Press.

Back Volumes. Enquiries about the price and availability of back volumes should be sent to the publishers.

Claims for the replacement of journals believed to have been lost in transmission will only be entertained if made immediately upon receipt of the subsequent issue.