JOURNAL OF DAIRY RESEARCH

Volume 46 Number 1 January 1979 JDRSAN 46 (No. 1) 1-160 (1979) 0022-0299

CAMBRIDGE UNIVERSITY PRESS

THE JOURNAL OF DAIRY RESEARCH

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

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

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

Editorial Assistant: MRS DOROTHY SKIDMORE

Secretary: J. C. F. COLES

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 46, 1979, of the *Journal* is £38.00 net (U.S.A. and Canada US \$93.00) for a volume of three parts. Single copies may be purchased at £12.00 net (U.S.A. and Canada US \$30.00) each, plus postage. Subscriptions may be sent to any bookseller or to the Cambridge University Press, P.O. Box 110, Cambridge CB2 3RL. 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.

© Proprietors of The Journal of Dairy Research 1979

Copying. This journal is registered with the Copyright Clearance Center, New York. 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. © law) subject to payment to C.C.C. of the per-copy fee indicated in the code on the first page of the article. This consent does not extend to multiple copying for promotional or commercial purposes.

ISI Tear Service, 325 Chestnut Street, Philadelphia, Pennsylvania 19106, 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.