CLIMATE CHANGE AND AGRICULTURE RESEARCH PAPERS

- The effect of temperature, water input and length of growing season on sugar beet yield in five locations in Greece
  J. T. TSIALTAS and N. MASLARIS 177

- Modelling of yields and soil nitrogen dynamics for crop rotations by HERMES under different climate and soil conditions in the Czech Republic

- Impact of climate change on harvest security and biomass yield of two timothy ley harvesting systems in Norway
  T. PERSSON and M. HÖGLIND 205

- A study of a pilot-scale biogas bio-filter system for utilization on pig farms
  J. U. BLY, J. CHEN and T. C. CHANG 217

- Climate variability and potential distribution of selected pest species in south Moravia and north-east Austria in the past 200 years – lessons for the future

CROPS AND SOILS RESEARCH PAPERS

- The effect and molecular mechanism of powdery mildew on wheat grain prolamins

- A comparative study between nonlinear regression and artificial neural network approaches for modelling wild oat (Avena fatua) field emergence

- A comparative greenhouse gas emission analysis of oilseed crops for biodiesel production in Greece
  C. E. VLACHOS, N. A. MARIOLIS and G. N. SKARACIS 263

- Quantitative trait loci mapping for plant architecture traits across two upland cotton populations using SSR markers

ANIMAL REVIEW PAPER

- The carbon footprint of UK sheep production: current knowledge and opportunities for reduction in temperate zones
  A. K. JONES, G. L. JONES and P. CROSS 288

ANIMAL RESEARCH PAPERS

- Comparison of non-linear models to describe the lactation curves of milk yield and composition in Iranian Holsteins
  N. GHAVI HOSSEIN-ZADEH 309

- Forage degradability, rumen bacterial adherence and fibrolytic enzyme activity in vitro: effect of pH or glucose concentration
  R. R. ABRENDZNA, L. V. KUDLOSKY, M. P. MEZONDS and A. C. FLUCK 325

- Ruminal dry matter and nitrogen degradation in relation to condensed tannin and protein molecular structures in sainfoin (Onobrychis viciifolia) and lucerne (Medicago sativa)
  J. AUFRERE, K. THEODORIDOU, I. MUELLER-HARVEY, P. YU and D. ANDUEZA 333

FORTHCOMING EVENTS 346

Submit your paper online
http://mc.manuscriptcentral.com/jagricsci

Register to receive the latest news and content from the journal
http://journals.cambridge.org/ags-alerts
SENIOR EDITORS
Dr. P. Bilbrough
University of Newcastle, School of Agriculture, Food & Rural Development, Newcastle upon Tyne NE1 7RU, UK
Paul J. Wissenman
University of Nottingham, School of Biosciences, Sutton Bonnington Campus, Loughborough, Leicestershire LE12 5RD, UK

EDITORIAL BOARD
T. Aveling, University of Pretoria, South Africa
B. Bukul, Universidad Nacional Autónoma de México, México
S. C. Bishop, Rothamsted Institute, Edinburgh, UK
M. D. Cattler, US Dairy Forage Research Center, Madison, USA
S. Cecarelli, ICARDA, France
E. Charnley, CSIRO, Australia
A. Cobb, Sotheby, UK
B. R. Cullis, University of Wollongong, Australia
J. Dijkstra, Wageningen University, The Netherlands
D. Dinkins, USDA-ARS, USA
R. N. Edmondson, Warwick HRI, Wiltshire, UK

SUBMISSIONS
The Journal has moved to electronic submission. Manuscripts should be uploaded to http://mc.manuscriptcentral.com/agric-sci. Double-blind referencing has also been adopted, therefore the authors’ names, addresses and emails should be removed from the main document and uploaded as a separate file, tagged “Not for Review”. Help is available on the website.

SUBSCRIPTIONS
The Journal of Agricultural Science (ISSN 0021-8596) is published six times a year in February, April, June, August, October and December. Six parts form a volume. The subscription price (excluding VAT) of Volume 152 (2014) (which includes delivery by air where appropriate, plus electronic access to institutional subscribers) is £1157 net (US $1926 in the USA, Canada and Mexico). Single parts are £190 net (US $327 in the USA, Canada and Mexico). The electronic only price available to institutional subscribers is £814 ($1397 in USA, Canada and Mexico). Back issues are also available.

Orders, which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct to the publisher: Cambridge University Press, University Printing House, Shaftesbury Road, Cambridge CB2 8BS, United Kingdom.

COPYING
No contents may be reproduced by any means without the permission of Cambridge University Press: this journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA (www.copying.com). Organizations in the USA who are also registered with the CCC may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to CCC. This consent does not extend to multiple copying for promotional or commercial purposes. Information on other Press titles can be found at http://www.journals.cambridge.org For further information on other Press titles access www.cambridge.org

INTERNET ACCESS
This journal is included in the Cambridge Journals Online service which can be found at http://www.journals.cambridge.org. For further information on other Press titles access www.cambridge.org

CAMBRIDGE UNIVERSITY PRESS
University Printing House, Shaftesbury Road, Cambridge CB2 8BS, United Kingdom

The Journal of Agricultural Science