Animal Welfare

Vol 7 No 1 1998

Articles

Public support for animal welfare
Preferences for nest boxes
Preference testing by pigs
Health monitoring of wildlife
Welfare of farmed red deer over winter
Captive clouded leopard behaviour
Milk cortisol concentrations for measuring stress
Carcase rejection rates in broilers

Short communication

Anxiety in silver foxes

Reports and comments

Book reviews

Books and videos received

UNIVERSITIES
FEDERATION
FOR
ANIMAL
WELFARE

Animal Welfare

ISSN 0962-7286

Editor-in-Chief: James K Kirkwood Editorial Assistant: Helen O'Leary Typesetter: Samantha Griffin

Universities Federation for Animal Welfare

The Old School, Brewhouse Hill, Wheathampstead, Herts AL4 8AN, UK

Tel: 01582 831818 Fax: 01582 831414

Website: http://www.users.dircon.co.uk/~ufaw3/animalwelfare.htm

Editorial Assistant Tel/Fax: 01242 257935

Section Editors

Farmed mammals and fish Professor Berry M Spruijt Animal Welfare Centre Utrecht University Yalelaan 17 3584 CL Utrecht, The Netherlands

Zoo and wild animals
Dr Miranda Stevenson

Royal Zoological Society of Edinburgh

Edinburgh Zoo Murrayfield

Edinburgh EH12 6TS, UK

Ethics and philosophy

Professor Marian Stamp Dawkins

Department of Zoology University of Oxford South Parks Road Oxford OX1 3PS, UK Companion animals
Dr Dennis C Turner

Institute for applied Ethology and Animal Psychology (IEAP)

Vorderi Siten 30

Postfach 8816 Hirzel, Switzerland

Laboratory animals
Professor Jann Hau

Department of Comparative Medicine University of Uppsala

Box 570

75123 Uppsala, Sweden

Poultry

Dr Linda Keeling

Department of Animal Environment

and Health

Swedish University of Agricultural Sciences

PO Box 234

SE-532 23 Skara, Sweden

Editorial Advisers

Dr Robert Baker - ANZCCART, University of Adelaide, Australia

Dr M F Bouissou - Institut National de la Recherche Agronomique, France

Mr Roger Ewbank - Ealing, London, UK

Dr Michael Festing - University of Leicester, UK

Dr David Fraser - University of British Columbia, Vancouver, Canada

Professor Benjamin Hart - University of California, Davis, USA

C B Hart - Berkhamsted, Herts, UK

Professor David Morton - University of Birmingham, UK

Dr James Serpell - University of Pennsylvania, USA

Professor John Webster - University of Bristol, UK

Professor Piet Wiepkema - Oosterbeek, The Netherlands

Animal Welfare (ISSN 0962-7286) brings together the results of scientific research and technical studies related to the welfare of animals kept on farms, in laboratories, as companions, in zoos or managed in the wild.

Subscription rates: Individuals £50/US\$100; Corporate/Institutes/Libraries £70/US\$140 per year.

Orders: Can be made direct to UFAW and are accepted by Volume, which consists of four issues per year.

Papers: Instructions for authors are summarized on the inside back cover; comprehensive instructions are available on request. Manuscripts should be submitted preferably to the appropriate Section Editor or to the Editor-in-Chief.

Animal Welfare is abstracted in Biological Abstracts; CAB Abstracts; Current Contents/Agriculture, Biology and Environmental Sciences; Current Primate References; Focus on: Veterinary Science & Medicine; Humans & Other Species; Research Alert; SciSearch; Sociological Abstracts; Toxicology Abstracts; Veterinary Update; is indexed in Zoological Record, and is covered by the Science Citation Index.

© 1998 UFAW

All rights reserved; no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means; electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the Publisher. Opinions expressed by authors do not necessarily reflect the views of UFAW, its Council, Staff, Members or Associates, the Section Editors or the Editorial Advisers.

Animal Welfare

ISSN 0962-7286

Volume 7 Number 1	February 1998
CONTENTS	
ARTICLES	
Measuring public support for animal welfare legislation: a case study of cage egg production R Bennett	1
Preferences for nest boxes as environmental enrichment for laboratory medium HA Van de Weerd, PLP Van Loo, LFM Van Zutphen, JM Koolhaus	ice 11
and V Baumans Preference testing of substrates by growing pigs V E Beattie, N Walker and I A Sneddon	27
Minimally invasive health monitoring of wildlife J E Cooper	35
Effects of winter housing, exercise, and dietary treatments on the behavio and welfare of red deer (Cervus elaphus) hinds J C Pollard and R P Littlejohn	our 45
Behaviour of a captive pair of clouded leopards (Neofelis nebulosa): introduction without injury G Law and P Tatner	57
Characterization of milk cortisol concentrations as a measure of short-ter-	m 77
stress responses in lactating dairy cows G A Verkerk, A M Phipps, J F Carragher, L R Matthews and K Stelwagen An observational cohort study of the effects of catching method on carcase rejection rates in broilers	87
C Ekstrand	
SHORT COMMUNICATION	97
Anxiolytic drugs inhibit hyperthermia induced by handling in farmed	91
silver foxes (Vulpes vulpes)	
R O Moe and M Bakken	101
REPORTS AND COMMENTS	101
Welfare of bobby calves Practical farm animal research	
Quarantine for pets Government Response to the Farm Animal Welfare Council Report on the Welfare of Pigs Kept Outdoors	
Transport of live animals by air	
Review of scientific procedures	
Bovine tuberculosis in badgers	
BOOK REVIEWS	106
Animals and Their Moral Standing	
The Domestic Rabbit, 5th edition	
The Well-being of Animals in Zoo and Aquarium Sponsored Research	
Free-range Poultry, 2nd edition	
Research and Captive Propagation	
Law Relating to Animals	
BOOKS AND VIDEOS RECEIVED	115
Published by Universities Federation for Animal Welfare	

The Old School, Brewhouse Hill, Wheathampstead, Herts AL4 8AN Tel: 01582 831818 Fax: 01582 831414