Animal Welfare

ISSN 0962-7286

Volume 5 1996

INDEX

Universities Federation for Animal Welfare 8 Hamilton Close, South Mimms, Potters Bar, Herts EN6 3QD, UK Tel: 01707 658202 Fax: 01707 649279

LIST OF ARTICLES

Volume 5 Number 1	February 1996
Willingness to pay for farm animal welfare. R M Bennett	3
The use of wild behaviour as a welfare indicator. J S Veasey, N K Waran	
and R J Young	13
Pigs in family groups. B Wechsler	25
Space utilization by baboons. A L Kessel and L Brent	37
Responses of sheep to food and water deprivation. R F Parrott, D M Lloyd and	
J A Goode	45
Locations of harpoon wounds on minke whales. P B Best	57
Motivation in the lizard. TM Skelton, NK Waran and RJ Young	63
Welfare implications of gas stunning pigs. A B M Raj and N G Gregory	71
Volume 5 Number 2	May 1996
Qualitative versus quantitative food restriction. C J Savory, P M Hocking,	
J S Mann and M H Maxwell	105
Different feeding enhancements. S J Schapiro, S A Suarez, L M Porter	
and M A Bloomsmith	129
A behavioural comparison of wild and captive giraffe. J S Veasey, N K Waran	
and R J Young	139
Fox behaviour in modified breeding boxes. B O Braastad	155
Effect of group housing and corticosterone on neonatal rats. L A Young,	
G Pavlovska-Teglia, G Stodulski and J Hau	167
Macaques on Gibraltar. H O'Leary	177
Beak related behaviour. B O Hughes and P N Grigor	189
Volume 5 Number 3	August 1996
Evolution and erosion of a moral concept. F R Stafleu, F J Grommers and	
J Vorstenbosch	225
Interventions for wildlife welfare. J K Kirkwood and A W Sainsbury	235
(No) Stereotypies in wild voles. J J Cooper and C J Nicol	245
Handling, bruising and dehydration of slaughter cattle. A M Jarvis,	
C D A Messer and M S Cockram	259
Food presentation for cheetahs. B G Williams, N K Waran, J Carruthers	
and R J Young	271
Preferences for soiling sites. C M Sherwin	283
Translocating badgers. J A Brown and C L Cheeseman	289
Volume 5 Number 4	November 1996
Lighting in poultry. C E Manser	341
Space requirements for caged primates. V Reinhardt, C Liss and C Stevens	361
Activities of performing dolphins. L Galhardo, M C Appleby, N K Waran	
and M E dos Santos	373
Introducing dogs into kennels. S M Sonderegger and D C Turner	391
Welfare by design. C J Barnard and J L Hurst	405
Sheep welfare at slaughter. M. H. Anil, J. Preston, J. L. McKinstry,	
R G Rodway and S N Brown	435

Animal Welfare 1996, 5: 465-483

AUTHOR AND SUBJECT INDEX

A	
Alternatives, see replacement, reduction and refinement	
Anaesthesia	
welfare implications of gas stunning pigs 2. stress of induction of	
anaesthesia	
An assessment of stress caused in sheep by watching slaughter of other sheep	. 43:
Anil M H, Preston J, McKinstry J L, Rodway R G and Brown S N An	
assessment of stress caused in sheep by watching slaughter of other sheep	
Animal welfare: evolution and erosion of a moral concept	22
Appleby M C, see Galhardo L	
Assessment of motivation in the lizard, Chalcides ocellatus	63
Australian fauna	
- A Guide to the Use of Australian Native Mammals in Biomedical	
Research Section 4. Care of individual species (R)	
- Feral Pests Program (R)	
- Managing Vertebrate Pests: Foxes (B)	
- Managing Vertebrate Pests: Rabbits (B)	214
В	
Badgers	
- Badgers: Guidelines for Developers (R)	312
- The Badger (R)	
- translocating badgers	
Baboons	
- space utilization by baboons	37
Barnard C J and Hurst J L Welfare by design: the natural selection of	
welfare criteria	405
Behaviour	
- a behavioural comparison of wild and captive giraffe	139
- activities of performing dolphins	
- introducing dogs into kennels	391
- Natural behaviour is simply a question of survival (L)	218
- The Development of Brain and Behaviour in the Chicken (B)	86
- The Domestic Dog: Its Evolution, Behaviour and Interactions with	
People (B)	316
- wild behaviour as a welfare indicator	13
Behaviour of silver foxes in traditional breeding boxes and in boxes with an	
entrance tunnel	155
Behavioural time-budgets and beak related behaviour in floor-housed turkeys	189
Bennett R M People's willingness to pay for farm animal welfare	3
Best P B The external locations of harpoon wounds on minke whales taken in	
Antarctic commercial whaling operations, 1978/79 season	57
Key: (B) book review, (I) invited essay, (L) letter,	
(R) report and comment, (S) short communication,	
(T) technical contribution, (V) video review	467
\-, 	707

Birds, see also poultry
- Environmental Enrichment Information Resources for Laboratory
Animals: 1965-1995, Birds, Cats, Dogs, Farm Animals, Ferrets,
Rabbits and Rodents (R)
- Wildlife Welfare (Birds) (R)
Bloomsmith M A, see Schapiro S J
Braastad B O Behaviour of silver foxes in traditional breeding boxes and in boxes
with an entrance tunnel
Breeding
- Modern Breeding Technologies and the Welfare of Farm Animals (R) 83
Brent L, see Kessel A L
Broiler breeders, see poultry
Brown J A and Cheeseman C L The effect of translocation on a social group
of badgers (Meles meles) 289
Brown S N, see Anil M H
C
Caging
- space requirements for caged primates
Captivity
- Conservation of Endangered Species in Captivity: An Interdisciplinary
Approach (B) 459
Carruthers J, see Williams B G
Cats
- AVMA Animal Welfare Forum: The Welfare of Cats (R) 315
- Cats in Shelters: Humane Care and Handling (V) 208
- Companion Animal Overpopulation Resource Guide (R)
- Environmental Enrichment Information Resources for Laboratory
Animals: 1965-1995, Birds, Cats, Dogs, Farm Animals, Ferrets,
Rabbits and Rodents (R)
- food presentation for cheetahs
- The Hands-On Handbook (R) 312
Cattle
- handling, bruising and dehydration of slaughter cattle 259
Cetaceans
- activities of performing dolphins
- Elephants and Whales: Resources for Whom? (B)
- locations of harpoon wounds on minke whales
- Whales vs Whalers (R)
- Whaling (L)
Cheeseman C L, see Brown J A
Cheetahs, see cats
Chickens, see Poultry
Cockram M S, see Jarvis A M
Companion animals - Alternative therapies (L)
- Alternative therapies (L)
A
468 Animal Welfare 1996, 5: 465-483

_	AVMA Animal Welfare Forum: The Welfare of Cats (R)	315
_	Cats in Shelters: Humane Care and Handling (V)	
-	Code of Practice for Ferreting (R)	
-	Companion Animal Overpopulation Resource Guide (R)	83
-	Equus caballus: On Horses and Handling (B)	
-	Ferret Keeping (R)	
-	In the Company of Animals (R)	444
-	introducing dogs into kennels	391
-	Parasites and Skin Diseases (B)	447
-	Postmaster's Dog Bite Prevention Week Kit (R)	444
-	Rabies policy: what price animal welfare (L)	336
-	The Complete Book of Ferrets (B)	
-	The Complete Guide to Ferrets (B)	89
-	The Domestic Dog: Its Evolution, Behaviour and Interactions	
	with People (B)	316
-	The Hands-On Handbook (R)	
-	The Horse: General Management (B)	
-	The Horse: Physiology (B)	323
-	The Horse Shoeing Book: A Pictorial Guide for Horse Owners	
	and Students (B)	
-	The Horse: The Foot, Shoeing and Lameness (B)	323
-	Touching Horses: Communication, Health and Healing Through	
	Shiatsu (B)	206
-	Welfare Problems of Farm Animals and Horses 1. The Foot:	
~	Symposium Proceedings (R)	80
	vation of Endangered Species in Captivity: An Interdisciplinary	450
	proach (B)	
	asts in diet amongst Barbary macaques on Gibraltar: human influences	1//
	r J J and Nicol C J Stereotypic behaviour in wild caught and laboratory ed bank voles (Clethrionymus glareolus)	245
bre	ed bank voies (Clean tonymus giareolus)	243
D		
Diet		
-	contrasts in diet amongst Barbary macaques on Gibraltar	177
_	qualitative versus quantitative food restriction	
Dogs	1	
8-	Companion Animal Overpopulation Resource Guide (R)	83
_	Environmental Enrichment Information Resources for Laboratory	
	Animals: 1965-1995, Birds, Cats, Dogs, Farm Animals, Ferrets,	
	<u>~</u>	200
-		391
-		444
-	The Domestic Dog: Its Evolution, Behaviour and Interactions with	
	People (B)	316
	Key: (B) book review, (I) invited essay, (L) letter,	
	(R) report and comment, (S) short communication,	
	(T) technical contribution, (V) video review	469

- Dolphin	The Hands-On Handbook (R)	312
dos San	ntos M E, see Galhardo L	
E		
Education	on	
-	• • • • • • • • • • • • • • • • • • • •	443
	* * * * * * * * * * * * * * * * * * * *	321
		443
	of group housing and oral corticosterone administration on weight	
	•	167
		341
Elephan		
	Elephants and Whales: Resources for Whom? (B)	319
Enrichm		
	5	129
-	Environmental Enrichment Information Resources for Laboratory	
	Animals: 1965-1995, Birds, Cats, Dogs, Farm Animals, Ferrets,	200
	Rabbits and Rodents (R)	
	food presentation for cheetahs	
Ethics	space diffization by baboons	31
	Animal Welfare: A Cool Eye Towards Eden (B)	452
	· · · · · · · · · · · · · · · · · · ·	235
	Ethics on the Ark: Zoos, Animal Welfare and Wildlife Conservation (B)	
	evolution and erosion of a moral concept	
	Farm Animal Welfare: Social, Bioethical and Research Issues (B)	
	·	444
	• • •	443
	Proceedings of Animals in Science Conference: Perspectives on their Use,	460
_	The Frankenstein Syndrome: Ethical and Social Issues in the Genetic	
		317
-	welfare by design	405
Ethics o	f interventions for the welfare of free-living wild animals	235
F		
- Farm		
	Animal Welfare: A Cool Eye Towards Eden (B)	452
	A Review of the Welfare Aspects of Layer Hen Housing in Australia (R)	
	beak related behaviour in turkeys	
	Environmental Enrichment Information Resources for Laboratory Animals: 1965–1995, Birds, Cats, Dogs, Farm Animals, Ferrets,	
	Rabbits and Rodents (R)	200
	Farm Animals in Biomedical and Agricultural Research: Proceedings	
	of the Conference Held in Wellington (R)	314
470	Animal Welfare 1996, 5: 465-4	483

470

_	Farm Animal Welfare: Social, Bioethical and Research Issues (B)			450
-	fox behaviour in modified breeding boxes			
_	Gene Transfer and the Welfare of Farm Animals (R)			
_	handling, bruising and dehydration of slaughter cattle			
	In the Company of Animals (R)			
_				
-	lighting in poultry			
_	Modern Breeding Technologies and the Welfare of Farm Animals (R)			
-	Post Graduate Teaching in Farm Animal Welfare and Ethics (R)			
-	Practical Approaches to Broiler Welfare (R)			
-	qualitative versus quantitative food restriction for broiler breeders			
-	responses of sheep to food and water deprivation			
-	Restraint and Handling of Wild and Domestic Animals (B)			332
-	RSPCA Science Review '94 (R)			79
_	sheep welfare at slaughter			
_	Summary of the Law Relating to Farm Animal Welfare (R)			
_	Surgical Techniques in Experimental Farm Animals (B)			
_	The Development of Brain and Behaviour in the Chicken (B)			
=				
-	The Domestic Chicken (ANZCCART Facts Sheets) (R)			
-	The Welfare of Broiler Chickens (R)			
-	welfare implications of gas stunning pigs			71
-	Welfare Problems of Farm Animals and Horses 1. The Foot:			
	Symposium Proceedings (R)			
-	willingness to pay for farm animal welfare			3
Feeding	g			
-	contrasts in diet amongst Barbary macaques on Gibraltar			177
-	different feeding enhancements			129
_	food preparation for cheetahs			
Ferrets	• •			
_	Code of Practice for Ferreting (R)			203
_	Environmental Enrichment Information Resources for Laboratory	• •	• •	200
_	Animals: 1965–1995, Birds, Cats, Dogs, Farm Animals, Ferrets,			
	Rabbits and Rodents (R)		,	200
	· ·			
-	Ferret Keeping (R)			
-	The Complete Book of Ferrets (B)			
	The Complete Guide to Ferrets (B)	• •		89
Foxes				
-	fox behaviour in modified breeding boxes			155
-	Managing Vertebrate Pests: Foxes (B)		. 2	211
G				
	do L, Appleby M C, Waran N K and dos Santos M E Spontaneous			
acti	ivities of captive performing bottlenose dolphins (Tursiops truncatus)		. 3	373
	Key: (B) book review, (I) invited essay, (L) letter,			
	(R) report and comment, (S) short communication,			
	(T) technical contribution, (V) video review		,	471
	, , ,			

Genetics	
 Animals and Science in the Twenty-First Century: New Technologies and Challenges (B)	. 79
- a behavioural comparison of wild and captive giraffe	139
Gregory N G, see Raj A B M Grigor P N, see Hughes B O Grommers F J, see Stafleu F R	
H Handling - Cats in Shelters: Humane Care and Handling (V) - Equus caballus: On Horses and Handling (B) - Restraint and Handling of Captive Wildlife (ANZCCART Facts Sheets) (R) - Restraint and Handling of Wild and Domestic Animals (B) - Handling, bruising and dehydration of cattle at the time of slaughter - Hau J, see Young L A Hens, see poultry Hocking P M, see Savory C J	331 445 332
Hormones	
- stress hormone responses of sheep to food and water deprivation at high and low ambient temperatures	. 45
 Equus caballus: On Horses and Handling (B) Parasites and Skin Diseases (B) The Horse: General Management (B) The Horse: Physiology (B) The Horse Shoeing Book: A Pictorial Guide for Horse Owners and Students (B) The Horse: The Foot, Shoeing and Lameness (B) Touching Horses: Communication, Health and Healing Through Shiatsu (B) Welfare Problems of Farm Animals and Horses 1. The Foot: Symposium Proceedings (R) Housing space requirements for caged primates 	447 323 323 213 323 206
Hurst J L, see Barnard C J	189
Husbandry - The Experimental Animal in Biomedical Research: Volume II Care, Husbandry and Well-Being, An Overview of Species (B)	44 6

Animal Welfare 1996, 5: 465-483

472

I		
	ducing dogs into kennels: prediction of social tendencies to	204
	cilitate integration	. 391
	iler breeder welfare improved by using qualitative rather than	105
qu	nantitative food restriction to limit growth rate?	. 105
J		
	A M, Messer C D A and Cockram M S Handling, bruising and dehydration	1
	cattle at the time of slaughter	
		02
K		
Kessel	A L and Brent L Space utilization by captive-born baboons (Papio sp.)	
	fore and after provision of structural enrichment	37
	rood J K and Sainsbury A W Ethics of interventions for the welfare of	
fre	ee-living wild animals	235
_		
L .		
Labora	•	
-	A Guide to the Use of Australian Native Mammals in Biomedical	199
	Research. Section 4: Care of individual species (R)	199
-	and Challenges (B)	209
_	Code of Recommendations and Minimum Standards for the Care and	207
	Use of Animals for Scientific Purposes (R)	. 81
_	Current Issues and New Frontiers in Animal Research (B)	
_	different feeding enhancements (macaques)	
-	Directory of Resources on Alternatives and Animal Use in the Life	
	Sciences 1995 (R)	311
-	effect of group housing and corticosterone on neonatal rats	
-	Environmental Enrichment Information Resources for Laboratory	
	Animals: 1965-1995, Birds, Cats, Dogs, Farm Animals, Ferrets,	
	Rabbits and Rodents (R)	200
-	Farm Animals in Biomedical and Agricultural Research: Proceedings	
	of a Conference Held in Wellington (R)	
-	In the Company of Animals (R)	
-	Laboratory Animals: An Introduction for Experimenters (B)	. 85
-	Nonhuman Primates in Biomedical Research: Biology and Management (B)	457 245
-	(No) stereotypies in wild voles	
-	Proceedings of Animals in Science Conference: Perspectives on Their Use,	203
-	Care and Welfare (B)	460
_	RSPCA Science Review '94 (R)	
_	space requirements for caged primates	
_	space utilization by baboons	
	Key: (B) book review, (I) invited essay, (L) letter,	
	(R) report and comment, (S) short communication,	
	(T) technical contribution, (V) video review	473

-	Surgical Techniques in Experimental Farm Animals (B)
-	The Experimental Animal in Biomedical Research: Volume II Care,
_	Husbandry and Well-Being, An Overview by Species (B) 446 Wildlife Mammals as Research Models: In the Laboratory and Field (B) 96
Law	munity indiminus as Research Models. In the Laboratory and Pieta (B) 90
-	Animals, Property and the Law (B)
-	Summary of the Law Relating to Farm Animal Welfare (R) 443
Lightin	
Liss C	lighting in poultry
Lizards	, see reptiles
Lloyd	D M, see Parrott R F
M Massar	
Macaqı	different feeding enhancements
_	macaques on Gibraltar
- Manage	•
- -	Nonhuman Primates in Biomedical Research: Biology and Management (B) 457
_	Whose Eden? An Overview of Community Approaches to
	Wildlife Management (R) 313
Measur	ing welfare
-	a behavioural comparison of wild and captive giraffe
-	motivation in the lizard
-	the use of wild behaviour as a welfare indicator
-	welfare by design 405
	JS, see Savory CJ
	· C E Effects of lighting on the welfare of domestic poultry: a review
	II M H, see Savory C J
	stry J L, see Anil M H
	C D A, see Jarvis A M
Mice, s	ee rodents
N	
	J, see Cooper J J
NICOI C	J, see Cooper J J
O	
_	y H Contrasts in diet amongst Barbary macaques on Gibraltar:
	nan influences
On con	paring the behaviour of zoo housed animals with wild conspecifics
	a welfare indicator
	paring the behaviour of zoo housed animals with wild conspecifics welfare indicator, using a giraffe (Giraffa camelopardalis)
	a model
Otters	
-	Wild Otters: Predation and Populations (B)
174	Animal Welfare 1996, 5: 465-483
	· · · · · · · · · · · · · · · · · · ·

P	
Parrot	t R F, Lloyd D M and Goode J A Stress hormone responses of sheep
	food and water deprivation at high and low ambient temperatures 45
	ska-Teglia G, see Young L A
-	's willingness to pay for farm animal welfare
Pests	
-	Managing Vertebrate Pests: Foxes (B)
-	Managing Vertebrate Pests: Rabbits (B)
Pigs	
6-	pigs in family groups
-	welfare implications of gas stunning pigs
	L M, see Schapiro S J
Poultry	
-	A Review of the Welfare Aspects of Layer Hens Housing in Australia (R) 80
_	beak related behaviour in turkeys
_	lighting in poultry
-	Practical Approaches to Broiler Welfare (R)
-	qualitative versus quantitative food restriction for broiler breeders 105
-	The Development of Brain and Behaviour in the Chicken (B) 86
-	The Domestic Chicken (ANZCCART Facts Sheets) (R) 445
_	The Welfare of Broiler Chickens (R)
Prefere	nces of laboratory mice for characteristics of soiling sites
	J, see Anil M H
Primate	
-	Nonhuman Primates in Biomedical Research: Biology and Management (B) 457
-	space requirements for caged primates
Q	
•	
R	
Rabbits	
Rabblis	
-	Environmental Enrichment Information Resources for Laboratory
	Animals: 1965–1995, Birds, Cats, Dogs, Farm Animals, Ferrets,
	Rabbits and Rodents (R)
_	Managing Vertebrate Pests: Rabbits (B)
Rabies	~, · · · · · · · · · · · · · · · · · · ·
Rabics	Rabies policy: what price animal welfare? (L)
-	
	The BMA Guide to Rabies (B)
	B M and Gregory N G Welfare implications of the gas stunning of pigs
2. s	tress of induction of anaesthesia
Rats, se	e rodents
	g pigs in species-specific family groups
	edt V, Liss C and Stevens C Space requirement stipulations for
	• • • • • • • • • • • • • • • • • • • •
cag	ed non-human primates in the United States: a critical review
	Key: (B) book review, (I) invited essay, (L) letter,
	(R) report and comment, (S) short communication,
	(T) technical contribution, (V) video review 475

_	reduction and refinement (3Rs)
	tals and Science in the Twenty-First Century: New Technologies
	d Challenges (B)
	ctory of Resources on Alternatives and Animal Use in the 2 Sciences 1995 (R)
- Proc	eedings of Animals in Science Conference: Perspectives on their Use,
	re and Welfare (B)
	Three Rs: the Way Forward (R)
- Thre	e R Alternatives: An International Directory of Funding Sources (R) 82
Reptiles	
	th and Welfare of Captive Reptiles (B)
	vation in the lizard
Research	
	ent Issues and New Frontiers in Animal Research (B) 456
	Animal Welfare: Social, Bioethical and Research Issues (B) 450
- The	numan Primates in Biomedical Research: Biology and Management (B) 457 Experimental Animal in Biomedical Research: Volume II Care,
	sbandry and Well-Being, An Overview by Species (B) 446
Rodents	
	t of group housing and corticosterone on neonatal rats
	ronmental Enrichment Information Resources for Laboratory
	mals: 1965-1995, Birds, Cats, Dogs, Farm Animals, Ferrets,
	obits and Rodents (R)
	stereotypies in wild voles
	rences for soiling sites
C	
S Saimahaan A	W and Vielenged I V
•	W, see Kirkwood J K Hocking P M, Mann J S and Maxwell M H Is broiler
•	release improved by using qualitative rather than
	ve food restriction to limit growth rate?
Schapiro S J	, Suarez S A, Porter L M and Bloomsmith M A The effects of
	types of feeding enhancements on the behaviour of single-caged, thesus macaques
Sheep	hesus macaques
	nses of sheep to food and water deprivation
	welfare at slaughter
	I Preferences of laboratory mice for characteristics of soiling sites 283
	Waran N K and Young R J Assessment of motivation in
	, Chalcides ocellatus
Slaughter	, charenes occurred the first transfer occurred to
~	ing, bruising and dehydration of slaughter cattle
	welfare at slaughter
	S M and Turner D C Introducing dogs into kennels: prediction
	tendencies to facilitate integration
	-

Animal Welfare 1996, 5: 465-483

476

Space requirement stipulat	tions for caged non-human primates in the	
United States: a critical		361
	e-born baboons (Papio sp.) before and after	
provision of structural		37
	captive performing bottlenose dolphins	
	T 177 A 1 1 7 A 1 1 1 A 1 1 A 1 A 1 A 1 A	373
	J and Vorstenbosch J Animal welfare: evolution	225
	concept	225
	vild caught and laboratory bred bank voles	2.45
Stevens C, see Reinhardt V		245
Stevens C, see Rennardt v Stodulski G, see Young L		
Stress	A	
	ress caused in sheep by watching slaughter of other shee	on 135
	s of gas stunning pigs 2. stress of induction of	ър 4 55
-		71
	of sheep to food and water deprivation at	
	temperatures	45
Stunning	•	
- welfare implications	s of gas stunning pigs	71
Suarez S A, see Schapiro S	5 J	
Γ		
The effect of a moving bai	t on the behaviour of captive cheetahs	
	on a social group of badgers (Meles meles)	. 289
	es of feeding enhancements on the behaviour	
	ng rhesus macaques	. 129
	arpoon wounds on minke-whales taken in	
	whaling operations, 1978/79 season	57
Franslocation		200
Ü ,	'S	. 289
Furkeys, see poultry	0.14	
Turner D C, see Sonderegg	ger S M	
11		
IJ		
V		
•	nd Young R J On comparing the behaviour of	
	wild conspecifics as a welfare indicator	13
	nd Young R J On comparing the behaviour of	15
	wild conspecifics as a welfare indicator,	
	camelopardalis) as a model	139
using a giranic (Onajja	cameroparaumo, ao a moder	. 137
,	Key: (B) book review, (I) invited essay, (L) letter,	
	(R) report and comment, (S) short communication,	
'	(T) technical contribution, (V) video review	477
	1-,	411

Voles		
- Vorste	(no) stereotypies in wild voles	245
W		
	NK, see Galhardo L, see Skelton TM, see Veasey JS, see Williams BG	
	eler B Rearing pigs in species-specific family groups	25
	re by design: the natural selection of welfare criteria	
	re implications of the gas stunning of pigs 2. stress of induction	
	anaesthesia	71
	s, see cetaceans	
Wild		
-	a behavioural comparison of wild and captive giraffe	139
-	Animals in Peril: How 'Sustainable Use' is Wiping Out the World's	
	Wildlife (B)	90
_	Badgers: Guidelines for Developers (R)	
_	Elephants and Whales: Resources for Whom? (B)	
_	Ethics on the Ark: Zoos, Animal Welfare and Wildlife Conservation (B)	
-	interventions for wildlife welfare	235
-	locations of harpoon wounds on minke whales	57
-	macaques on Gibraltar	177
-	Managing Vertebrate Pests: Foxes (B)	211
-		214
-	natural behaviour is simply a question of survival (L)	218
-	(no) stereotypies in wild voles	
-	Restraint and Handling of Captive Wildlife (ANZCCART Facts Sheet) (R)	445
-	Restraint and Handling of Wild and Domestic Animals (B)	
-	RSPCA Science Review '94 (R)	79
_	The Badger (R)	
-	translocating badgers	
-	Whales vs Whalers (R)	
-	Whaling (L)	337
-	Whose Eden? An Overview of Community Approaches to	
	Wildlife Management (R)	
-	wild behaviour as a welfare indicator	
-	Wildlife Mammals as Research Models: In the Laboratory and Field (B)	
-	Wildlife Welfare (Birds) (R)	
	Wild Otters: Predation and Populations (B)	87
	ns B G, Waran N K, Carruthers J and Young R J The effect of a moving	254
baiı	t on the behaviour of captive cheetahs (Acinonyx jubatus)	271
X		
	ansplantation	
-	•	205

Animal Welfare 1996, 5: 465-483

and oral corticosterone a development in neonatal	lia G, Stodulski G and Hau J Effect of group housing dministration on weight gain and locomotor rats	67
Young R J, see Skelton T M, see Veasey J S, see Williams B G		
Z		
Zoo		
- a behavioural compa	rison of wild and captive giraffe	39
- activities of performi	ing dolphins	73
- Conservation of End	angered Species in Captivity: An Interdisciplinary	
Approach (B)		59
- Ethics on the Ark: Ze	oos, Animal Welfare and Wildlife Conservation (B) 4	48
	cheetahs	
•	of Captive Reptiles (B)	
· ·	ird	
- Restraint and Handli	ng of Captive Wildlife (ANZCCART Facts Sheet) (R) 4	45

Key: (B) book review, (I) invited essay, (L) letter, (R) report and comment, (S) short communication, (T) technical contribution, (V) video review

REPORTS AND COMMENTS INDEX

A Guide to the Use of Australian Native Mammals in Biomedical Research.	
Section 4: Care of individual species (National Health and Medical	
•	99
•	43
	43
A Review of the Welfare Aspects of Layer Hen Housing in Australia (Agriculture	
	80
AVMA Animal Welfare Forum: The Welfare of Cats (American Veterinary	
•	15
• · · · · · · · · · · · · · · · · · · ·	12
	03
Code of Recommendations and Minimum Standards for the Care and	
Use of Animals for Scientific Purposes (MAF NZ publication)	81
Companion Animal Overpopulation Resource Guide (Fund for Animals	-
publication)	83
Directory of Resources on Alternatives and Animal Use in the Life Sciences 1995	-
	11
Environmental Enrichment Information Resources for Laboratory Animals:	
1965-1995, Birds, Cats, Dogs, Farm Animals, Ferrets, Rabbits	
and Rodents (Animal Welfare Information Center/Universities	
·	00
Farm Animals in Biomedical and Agricultural Research: Proceedings of the	00
Conference Held in Wellington, New Zealand, 18–19 August 1995	
(Australian and New Zealand Council for the Care of Animals	
	14
3,	11
	99
Ferret Keeping (Farming Press production)	フフ
	79
	19 44
1 3 3	44
Modern Breeding Technologies and the Welfare of Farm Animals (Compassion	07
in World Farming Trust publication)	၁၁
Post Graduate Teaching in Farm Animal Welfare and Ethics (Swedish	12
J O	43
Postmaster's Dog Bite Prevention Week Kit (United States Postal Service	4 4
and the Francisco Court of the	44
Practical Approaches to Broiler Welfare (University of Birmingham	n 1
publication)	
RSPCA Science Review '94 (RSPCA publication)	
Summary of the Law Relating to Farm Animal Welfare (MAFF publication) 4	
The Badger (The Mammal Society publication)	
The Hands-On Handbook (Progressive Animal Welfare Society publication) 31	12

Animal Welfare 1996, 5: 465-483

https://doi.org/10.1017/S0962728600019333 Published online by Cambridge University Press

The Three Rs: The Way Forward (European Centre for the Validation of
Alternative Methods publication)
The Welfare of Broiler Chickens (Compassion in World Farming Trust
publication)
Three R Alternatives: An International Directory of Funding Sources (The American
Society for the Prevention of Cruelty to Animals publication)
Welfare Problems of Farm Animals and Horses 1. The Foot: Symposium Proceedings
(The Animal Health Trust publication)
Whales vs Whalers: 1971-1995 (Animal Welfare Institute publication) 203
Whose Eden? An Overview of Community Approaches to Wildlife Management
(International Institute for Environment and Development publication) 313
Wildlife Welfare (Birds) (Intervet UK Ltd publication) 313

Key: (B) book review, (I) invited essay, (L) letter,(R) report and comment, (S) short communication,(T) technical contribution, (V) video review

BOOK AND VIDEO REVIEWS INDEX

Baker R M, Einstein R, Mellor D J and Rose M A 1995 Animals and Science	
in the Twenty-First Century: New Technologies and Challenges 20	9
Bayne K A L, Greene M and Prentice E D 1995 Current Issues and	
New Frontiers in Animal Research	ϵ
Bayne K A L and Kreger M D 1995 Wildlife Mammals as Research Models:	
In the Laboratory and Field	6
Bennett B T, Abee C R and Henrickson R 1995 Nonhuman Primates	
in Biomedical Research: Biology and Management	7
Brega J 1993 The Horse: General Management	3
Brega J 1995 The Horse: Physiology	3
Brega J 1995 The Horse: The Foot, Shoeing & Lameness	3
British Medical Association 1995 The BMA Guide to Rabies	9
Fowler M E 1995 Restraint and Handling of Wild and Domestic Animals,	
2nd Edition	2
Francione G L 1995 Animals, Property and the Law	6
Freeman M M R and Kreuter U P 1995 Elephants and Whales: Resources	
for Whom? 31	9
Gibbons E F, Durrant B S and Demarest J 1995 Conservation of Endangered	
Species in Captivity: An Interdisciplinary Approach	9
Gray P 1995 Parasites and Skin Diseases	
Harrison F A 1995 Surgical Techniques in Experimental Farm Animals 32	8
Hoyt J A 1994 Animals in Peril: How 'Sustainable Use' is Wiping Out the	
World's Wildlife	0
Humane Society of the United States 1995 Cats in Shelters: Humane Care	
and Handling (V)	8
Humphreys M 1995 The Horse Shoeing Book: A Pictorial Guide for Horse	
Owners and Students	
ILAR Journal 1995 Perspectives on Xenotransplantation	5
Johnston N E 1995 Proceedings of Animals in Science Conference: Perspectives	
on Their Use, Care and Welfare	0
Kaselle M and Hannay P 1995 Touching Horses: Communication, Health	
and Healing Through Shiatsu	
Kruuk H 1995 Wild Otters: Predation and Populations	
May J 1995 Equus caballus: On Horses and Handling	
McKay J 1995 The Complete Guide to Ferrets	9
Norton B G, Hutchins M, Stevens E F and Maple T L 1995 Ethics on the	
Ark: Zoos, Animal Welfare and Wildlife Conservation 448	
Porter V and Brown N 1993 The Complete Book of Ferrets, revised edition 89	
Rogers L A 1995 The Development of Brain and Behaviour in the Chicken \ldots 86	
Rollin B E 1995 Farm Animal Welfare: Social, Bioethical and Research Issues 450)
Rollin B E 1995 The Frankenstein Syndrome: Ethical and Social Issues	_,
in the Genetic Engineering of Animals	1

Animal Welfare 1996, 5: 465-483

Rollin B E and Kessel M L 1995 The Experimental Animal in		
Biomedical Research: Volume II Care, Husbandry, and Well-Being,		
An Overview by Species	446	
Saunders G, Coman B, Kinnear J and Braysher M 1995 Managing Vertebrate		
Biomedical Research: Volume II Care, Husbandry, and Well-Being, An Overview by Species	321	
	·	
		. 85
	## April 1995 Managing Vertebrate	
	452	
Vertebrate Pests: Rabbits	214	
LETTERS INDEX		
Allport R Alternative therapies	101	
Jordan W J Whaling	337	
Pools T Natural habayiour is simply a question of survival	218	

Key: (B) book review, (I) invited essay, (L) letter,(R) report and comment, (S) short communication,(T) technical contribution, (V) video review