

The IUCN Species Survival Commission

# Conservation and Development Interventions at the Wildlife/Livestock Interface

## Implications for Wildlife, Livestock and Human Health



# **Conservation and Development Interventions at the Wildlife/Livestock Interface**

## **Implications for Wildlife, Livestock and Human Health**

Edited and compiled by Steven A. Osofsky

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*AHEAD* invitees (or a good portion of them!) – V<sup>th</sup> World Parks Congress – Durban, South Africa, September 2003

Angela Yang. Sincere apologies to anyone we may have inadvertently missed!

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Sincerely,

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# Abbreviations and Acronyms

AAAS	American Association for the Advancement of Science
ADMADE	Administrative Management Design for Game Management Areas
AE	adult equivalent
AGID	agar-gel immunodiffusion
<i>AHEAD</i>	Animal Health for the Environment And Development
AIDS	acquired immune deficiency syndrome
ASAL	arid and semi-arid lands
ASF	African swine fever
AU/CTTBD	African Union/Centre for Ticks and Tick-Borne Diseases
AU/IBAR	African Union/Interafrican Bureau for Animal Resources
AWF	African Wildlife Foundation
AZA	American Zoo and Aquarium Association
BIIT	blood infectivity incubation test
BINP	Bwindi Impenetrable National Park
BTB	bovine tuberculosis
CAHS	Community-based Animal Health Systems
CAHW	Community-based Animal Health Workers
CAMPFIRE	Communal Areas Management Program For Indigenous Resources
CAPE	Community-based Animal Health and Participatory Epidemiology
CBNRM	Community-Based Natural Resource Management
CBPP	contagious bovine pleuropneumonia
CCPP	contagious caprine pleuropneumonia
CI	Conservation International
CIRAD	Centre de coopération internationale en recherche agronomique pour le développement
CITES	Convention on International Trade in Endangered Species
CONASA	Community-based Natural Resource Management and Sustainable Agriculture
CRB	Community Resource Board
DFID	Department For International Development
DNPWM	Department of National Parks and Wildlife Management
DRC	Democratic Republic of Congo
EAC	East African Community
ECF	East Coast fever (theileriasis)
EDD	Exotic Diseases Division
EIA	environmental impact assessment
EU	European Union
FAO	Food and Agriculture Organization (of the United Nations)
FEWS	Famine Early Warning System
FMD	foot and mouth disease
FVP	Field Veterinary Program
GATT	General Agreement on Tariffs and Trade
GDP	gross domestic product
GEF	Global Environment Facility
GIS	Geographic Information Systems



GLTFCA	Great Limpopo Transfrontier Conservation Area
GLTFP	Great Limpopo Transfrontier Park
GMA	Game Management Area
GR	Game Reserve
GREP	Global Rinderpest Eradication Programme
GTZ	Gesellschaft für Technische Zusammenarbeit
ha	hectare
HIV	human immunodeficiency virus
HUP	Hluhluwe-Umfolozi Park
ILRI	International Livestock Research Institute
IRDNC	Integrated Rural Development and Nature Conservation
IUCN	World Conservation Union (International Union for Conservation of Nature and Natural Resources)
JMB	Joint Management Board
KARI	Kenya Agricultural Research Institute
KEMRI	Kenya Medical Research Institute
KNP	Kruger National Park
KWS	Kenya Wildlife Service
LIFE	Living In a Finite Environment
LPEC	Livestock Production Efficiency Calculator
LSU	large stock unit
MAWRD	Ministry of Agriculture, Water, and Rural Development
MCF	malignant catarrhal fever
MET	Ministry of Environment and Tourism
MGE	mobile genetic elements
MOLD	Ministry of Livestock Development
NCAA	Ngorongoro Conservation Area Authority
NGO	nongovernmental organization
NIMR	Naval Institute of Medical Research (Tanzania)
NNF	Namibia Nature Foundation
NP	National Park
NSF	National Science Foundation
OAU	African Union (previously Organization of African Unity)
ODA	Overseas Development Administration
OIE	Office International des Epizooties, <i>also</i> World Organisation for Animal Health
OSS	Observatoire du Sahara et du Sahel
PACE	Pan African Programme for the Control of Epizootics
PARC	Pan African Rinderpest Campaign
PCR	polymerase chain reaction
PPR	peste des petits ruminants
RFLP	restriction fragment length polymorphism
ROSELT	Réseau d'Observatoires de Surveillance Ecologique à Long Terme
RP	rinderpest
RT-PCR	reverse transcription polymerase chain reaction
RVF	Rift Valley fever
SADC	Southern African Development Community
SANParks	South African National Parks

SARS	severe acute respiratory syndrome
SASUSG	Southern Africa Sustainable Use Specialist Group
SAT	South African Territories
SAVA	South African Veterinary Association
SEATIP	South East Africa Tourism Investment Program
SEL	South East Lowveld
<i>SRA</i>	serum-resistance associated (gene)
SSC	Species Survival Commission
SUA	Sokoine University of Agriculture
TANAPA	Tanzania National Parks
TAWIRI	Tanzania Wildlife Research Institute
TB	tuberculosis
TBD	tick-borne disease
TFCA	Transfrontier Conservation Area
TLU	tropical livestock unit
TPN3	Thematic Programme Network 3
TRAFFIC	Trade Records Analysis of Fauna and Flora In Commerce
TREP	Tropical Resource Ecology Programme
UAE	United Arab Emirates
UK	United Kingdom
UNCCD	United Nations Convention to Combat Desertification
UNEP-GEF	United Nations Environment Programme-Global Environment Facility
UNESCO	United Nations Educational, Scientific, and Cultural Organization
US	United States
US\$	United States dollars
USAID	United States Agency for International Development
USDA	United States Department of Agriculture
UWA	Uganda Wildlife Authority
WCS	Wildlife Conservation Society
WHO	World Health Organization
WHS	Wildlife Health Sciences
WTO	World Trade Organization
WWF	World Wide Fund for Nature (World Wildlife Fund)
ZSL	Zoological Society of London