



Annexes

Annex 1: Research and Management Tables from Working Groups

TABLE A-1. RESEARCH ACTIVITIES AND GAPS IDENTIFIED FOR EACH TERAI PROTECTED AREA

Issues	RBNP	PWR	RSWR	RCNP	KWR
Tree invasion in grassland	P	N	P	P	P
Illegal burning	P	N	P	P	P
Settlement in core area	--	P	P	--	P
Illegal grazing	P	P	P	P	P
Collection of grass	P	P	P	P	P
Scarcity of water	P	P	P	P	--
Forest road/park infrastructure	P	--	P	P	P
Hydrology and flooding	P	--	P	P	P
Tourism	P	--	P	P	P
Park/camp elephant grazing	P	--	P	P	P
Corridors and conductivity	P	P	P	P	P
Research and monitoring	P	P	P	P	P
Transboundary conservation	P	P	P	P	P
Stakeholder collaboration	P	P	P	P	P
Development activities	P	P	P	P	P
Disease transfer	P	N	P	P	P
Crop depredation	P	P	P	P	P

'G' = good initiative; 'N' = no initiative; 'P' = partially addressed; and '--' = not relevant

TABLE A-2. MANAGEMENT ACTIVITIES AND GAPS IDENTIFIED FOR EACH TERAI PROTECTED AREA

Issues	RBNP	PWR	RSWR	RCNP	KWR
Tree invasion in grassland	P	P	P	P	N
Illegal burning	P	P	P	P	P
Settlement in core area	--	G	G	--	P
Illegal grazing	P	P	P	P	P
Collection of grass	P	P	P	P	P
Scarcity of water	P	P	P	P	--
Forest road/park infrastructure	P	--	P	--	--
Hydrology and flooding	P	--	P	P	P
Tourism	P	--	P	P	P
Park/camp elephant grazing	N	--	N	P	N
Corridors and conductivity	P	P	P	P	P
Research and monitoring	P	P	P	P	P
Transboundary conservation	P	P	P	P	P
Stakeholder collaboration	P	P	P	P	P
Development activities	P	P	P	P	P
Disease transfer	P	N	P	P	P
Crop depredation	P	P	P	P	P

'G' = good initiative; 'N' = no initiative; 'P' = partially addressed; and '--' = not relevant

TABLE A-3. RESEARCH ACTIVITIES AND GAPS IDENTIFIED FOR EACH MOUNTAIN PROTECTED AREA

Issues	KNP	RNP	SPNP	LNP	DHR	KCA	ACAP	MBNP	SNP	MCA
Forest burning	N	N	N	N	N	N	N	N	N	N
Wild plant extraction	P	N	G	P	N	N	P	P	N	?
Poaching/hunting	G	G	G	G	G	G	G	G	G	G
Livestock grazing	P	P	G	P	P	N	G	G	G	?
Winter forage/fodder	N	N	P	P	--	N	G	--	N	?
Livestock depredation	P	-	G	P	N	--	G	--	?	?
Tourism/pilgrimage	P	P	P	G	P	P	G	G	G	P
Livestock-wildlife competition	N	N	P	N	N	N	P	P	P	?
Crop depredation	N	N	N	P	--	N	P	G	P	?
Transboundary conservation	N	--	N	G	--	P	P	P	P	?
Agricultural encroachment/ illegal settlement	P	G	G	G	G	G	G	G	G	?
Indigenous management systems	N	N	P	P	P	P	G	G	G	?
Disease transfer	N	--	N	N	N	N	N	N	N	N
Livestock composition change	N	--	P	N	P	--	--	--	P	?
Extraction of forest products	P	P	P	P	P	P	P	P	P	?
Collaboration among stakeholders	P	P	P	P	P	N	G	G	P	?
Shifting cultivation	--	--	--	--	N	N	P	G	--	?
Conservation awareness	P	P	P	P	P	P	G	P	G	?
Non-park development projects and activities	--	--	--	P	--	P	P	--	P	--

'G' = good initiative; 'N' = no initiative; 'P' = partially addressed; and '--' = not relevant

TABLE A-4. MANAGEMENT ACTIVITIES AND GAPS IDENTIFIED FOR EACH MOUNTAIN PROTECTED AREA

ISSUES	KNP	RNP	SPNP	LNP	DHR	KCA	ACAP	MBNP	SNP	MCA
Forest burning	N	N	N	N	N	N	N	N	N	N
Wild plant extraction	N	N	N	G	N	N	G	N	N	?
Poaching/hunting	G	G	G	G	G	N	G	G	G	G
Livestock grazing	G	G	P	P	N	N	G	G	N	?
Winter forage/fodder	N	N	N	P	--	N	G	--	P	?
Livestock depredation	N	--	P*	P*	N	--	P	--	N	?
Tourism/pilgrimage	P	P	P	G	N	P	G	P	G	P
Livestock-wildlife competition	P	P	N	P	N	N	P	P	N	?
Crop depredation	N	N	P*	N	--	N	N	P	N	?
Transboundary conservation	--	--	N	G	--	P	P	P	P	?
Agricultural encroachment/ illegal settlement	P	P	P	N	N	--	P	N	?	?
Indigenous management systems	N	N	G	N	P	N	G	G	P	?
Disease transfer	N	--	N	N	N	N	P	N	N	N
Livestock composition change	N	--	N	N	N	--	--	--	N	?
Extraction of forest products	P	P	G	P	N	P	P	P	P	?
Collaboration among stakeholders	P	P	P	P	P	N	G	P	P	?
Shifting cultivation	--	--	--	--	N	N	P	G	--	?
Conservation awareness	P	P	P	P	P	P	G	G	G	?
Non-park development projects and activities	--	--	--	N	--	N	P	--	P	--

'G' = good initiative; 'N' = no initiative; 'P' = partially addressed; and '--' = not relevant

* = other initiatives indirectly address this issue

Annex 2: List of Participants



Camille Richard

Tika Ram Adhikari
Warden
RTCPA, Bardia
Nepal

Anish Bania
Env.-Planner, IUCN
Bakundole, Kathmandu
Nepal
Tel: +977-1-527078, 526668

Shyam Bajimaya
Buffer Zone Management Officer
Department of National Parks and Wildlife
Conservation
P.O. Box 860
Babar Mahal, Kathmandu
Nepal
Tel: +977-1-220850, 220912
Fax: +977-1-227675
e-mail: dnpwc@bcn.wlink.com.np

Dibya Deo Bhatta
Regional Director
Mid Western Regional Forestry Directorate
Birendranagar, Surkhet
Nepal
Tel: +977-083-20148
Fax: +977-083-20187

Shiva R. Bhatta
Chief Warden,
Royal Bardia National Park
Thakurdwara Bardia
Nepal
Tel: +977-084-29712, 29719

Sushil Bhattarai
Joint Secretary (Tech)
Ministry of Forests and Soil Conservation
P.O. Box 6117
Kathmandu
Tel: +977-1-220067
e-mail: sbhattarai@wlink.com.np

Harish Kumar Guleria
Research Fellow
Wildlife Institute of India
Dehradun
India
or Post Box No. 18
Tehsila Dist. Mandi
Himachal Pradesh
Tel: +91-0135-640112
Fax: +910135-640117
e-mail: harishtca@hotmail.com

Sarita Jnawali
WDO
KMTNC/BCP
Betani, Bardia
Nepal
Tel: +977-084-29718

Shant Raj Jnawali
Project Director
KMTNC-Bardia Conservation Programme
Betani, Bardia
Nepal

P. O. Box 3712
Kathmandu
Tel: +977-1-084-29718
e-mail: kmtnc@beta.wlink.com.np

Jhamak Banadur Karki
Chief
Warden
Langtang National Park
Rasuwa, Dhunche
Nepal
Tel: +977-010-40119, 219

Jay Shankar Lal
Project Co-Manager
Buffer Zone Development Project (CARE)
Chisapani (East), Banke, Bardia
Nepal
Tel: +977-081-29115
e-mail: care@bzdp.mos.com.np

Pradeep Kumar Mathur
Scientist SF
Wildlife Institute of India
P. Box 18
Chandrabani
Dehradun 248001
(U.P.) India
Tel: +91-0135- 640111 to 640115
Fax: +91-0135- 640117
e-mail: mathurpk@wii.gov.in

Nilamber Mishra
Warden
Khaptad National Park, Bajura
Nepal

Sushila Nepali
Asst. Project Manager
BICP-Bardia/WWF
Bardia
Nepal
Tel: +977-084-29719/712
Fax: +977-084-29719
e-mail: bicp@rbnp.mos.com.np

Surya Bahadur Pandey
Chief Warden
Parsa Wildlife Reserve
Adahabhar, Nepal
Tel: +977-53-20246

Kamal Kumar Panthi
Reporter
Kantipur and Kathmandu Post
Gularia, Bardia
Nepal
Tel: +977-084-20142

Ramayan Pathak
Asst. Lecture
Institute of Forestry
Hetauda
Nepal
Tel: +91-057-20453

Ram Paudel
Activity Director
Environment and Forest Enterprise

Activity
Ministry of Forest and Soil Conservation
EFEA, Tulsipur
Dang
Nepal
Tel: +91-082-20505
e-mail: paudel@efea.wlink.com.np

Nic Peet
University of East Anglia
c/o Birdlife International, Well Brook
Court, Girion Road
Cambridge
U.K.
Tel: 0044-1371-873054

Chiranjibi Pokharel
Research Assistant
KMTNC/Bardia Conservation Project
Betani, Bardia
Nepal
Tel: +977-084-29718

Jay Prakash Sah
Lecturer
Central Department of Botany
Tribhuvan University
Kirtipur, Kathmandu
Nepal
Tel: +977-1-331322 (O)
+977-1-527691 (R)
Fax: +977-1-536128
e-mail: jpsah@wlink.com.np

Vishwas B. Sawarkar
Additional Director
Wildlife Institute of India
P. O. Box 18
Chandrabani
Dehradun 248001
India
Tel: +91-0135- 640112
Fax: +91-0135- 640117
e-mail: omega@wii.gov.in

Bhuvan Silwal
BZ Development Officer,
Royal Bardia National Park
Bardia
Nepal

Pawaneshor Shrestha
Ranger
Department of National Parks and Wildlife
Conservation
Babar Mahal, Kathmandu

Nepal

Tel: +977-1-220912, 220850

Fax: +977-1-227675

Chatur Lal Shrestha
Computer Operator
Department of National Parks and Wildlife
Conservation
Babar Mahal, Kathmandu
Nepal
Tel: +977-1-220912

Krishna Man Shrestha
Bətaini, Bardia
Nepal
Tel: +977-084-29719

Ramji Prasad Shiwakoti
Asst. Warden
Royal Bardia National Park
Buffer Zone Development Project
(east Chisepani)
Bardia, Nepal
Tel: +977-1-522143/522153

Basant Subba
Consultant Editor
Department of National Parks and Wildlife
Conservation (DNPWC)
Babar Mahal, Kathmandu Nepal
Tel: +977-1-220912, 220850

Sher Singh Thagunna
Asst. Conservation Education Officer
Department of National Parks and Wildlife
Conservation,
Babar Mahal, Kathmandu
Nepal
Tel: +977-1-220912, 220850
Fax: +977-1-227675

Gopal Prasad Upadhyay
Conservation Education Officer
Department of National Parks and Wildlife
Conservation
P.O. Box 860
Babar Mahal, Kathmandu
Nepal
Tel: +977-1-220850, 220912, 227926
Fax: +977-1-227675

Shekhar Kumar Yadav
District Forest Officer
District Forest Office
Bardia, Nepal
Tel: +977-084-20156

**Participants in Mountain Group
Working Session**

Som Ale
Officer in Charge
Annapurna Conservation Area Project
KMTNC, P. O. Box 183
Pokhara
Nepal
Tel: +977-061-21102
e-mail: acapgd@mos.com.np

Khadga Basnet
Ecoregion Coordinator
Tribhuvan University and
WWF Nepal Program
P. O. Box 7660, Lal Durbar, Naxal
Kathmandu
Nepal
Tel: +977-1-434970/434820
Fax: +977-1-434537
e-mail: kbasnet@wwfnep.org.np

Yash Veer Bhatnagar
Snow Leopard Conservationist
International Snow Leopard Trust
C-20 Sector 27, Noida (U.P.) 201301
India
Tel: +91-0118-521376
e-mail: yashkris@vsnl.com

Gopal Bahadur Ghimire
Act. Warden, Rara National Park
Hutu, Mugu
Nepal

Ram Chandra Kandel
Warden
Dhorpatan Hunting Reserve
Dhorpatan
Nepal

Fanindra R. Kharel
Project Manager, Kanchenjunga
Conservation Area Project
Leleb, Taplejung
Nepal
Fax: +977-1-534052
Tel: +977-1-530560 (R)

Rita Koirala
Lecturer
Trichandra Campus
P.O. Box 5228
Kathmandu
Nepal

Tel: +977-1-262396/261354
 Fax: +977-1-292396
 e-mail: info@deprosc.wlink.com. np

Colleen McVeigh
 Ph.D. Candidate
 Cornell University
 USA

Tel: +977-1-485550 (res)
 e-mail: maya@wlink.com.np

Narendra Man Babu Pradhan
 Asst. Ecologist
 Department of National Parks and Wildlife
 Conservation
 Babar Mahal, Kathmandu
 Nepal

Tel: +977-1-220912, 280850
 Fax: +977-1-227675

Gopal Singh Rawat
 Scientist - SF
 Wildlife Institute of India
 P.B. 18
 Chandrabani, Dehradun
 India

Tel: +91-0135- 640112
 Fax: +91-0135- 640117
 e-mail: rawatg@wii.gov.in

Camille Richard
 Rangeland Management Specialist
 Mountain Natural Resources Division
 ICIMOD
 P.O. Box 3226,
 Jawalakhel, Kathmandu
 Nepal
 Tel: +977-1-525313/525312
 Fax: +977-1-524509
 e-mail: camille@icimod.org.np

Prakash Sayami
 Forest Officer
 Hills Leasehold Forestry & Forage Dev.
 Project
 Department of Forests
 Nepal

Tel: +977-1-227632 (O) 356022 (R)

Tulsi Ram Sharma
 Warden
 Shey Phoksundo National Park
 Dolpa
 Nepal

Principal Technical Paper Authors not present at the Workshop

Hem Sagar Baral
 Institute of Systematic and Population
 Biology
 Department of Birds and Mammals
 University of Amsterdam
 Mauritskade 61, P. O. Box 94766
 1090 GT Amsterdam, The Netherlands
 e-mail: oiseau@worldonline.nl
 Current address: Bird Conservation Nepal
 P. O. Box 12465
 Kathmandu, Nepal
 e-mail: birdlife@mos.com.np

John F. Lehmkuhl
 Research Wildlife Biologist
 USDA Forest Service, Pacific Northwest
 Research Station
 1133 N. Western Ave.
 Wenatchee Washington 98801 USA
 e-mail: Lehmkuhl_John_F/
 r6pnw_wenatchee@fs.fed.us

Per Wegge
 Department of Ecology and Nature
 Conservation
 Agricultural University of Norway
 P.O.Box 5014
 N-1432 Ås, Norway
 e-mail: per.wegge@ibn.nlh.no

Rodney Jackson
 Conservation Director, International Snow
 Leopard Trust
 Seattle, Washington, and Senior Program
 Associate for Ecology and Biodiversity
 Conservation The Mountain Institute,
 Franklin, West Virginia
 18030 Comstock Ave.
 Sonoma, CA 95476 USA
 e-mail: rodjackson@mountain.org

Santosh Rayamajhi
 Park People Programme
 Maitighar Height, Kathmandu
 P.O.Box 15113
 Tel: +977-1-222245 (work)
 Tel: +977-1-427663 (home)
 Fax: +977-1-247056
 e-mail: manren@unlimit.com
 sraya@mos.com.np

Annex 3: Workshop Programme

DAY I (MARCH 16, 1999)	
9:00 – 10:00	I. INTRODUCTORY SESSION A. Inauguration Chief Guest: Mr. Sushil Bhattarai, Under Secretary, Ministry of Forests and Soil Conservation Chairperson: Mr. Dibya Dev Bhatta, Director General, Mid-western Forests Office Welcome Addresses by: Chief Warden Royal Bardia National Park - Mr. Shiva Raj Bhatta Mr. Shyam Bajimaya - Department of National Parks and Wildlife Conservation Presiding Chairperson Mr. Dibya Dev Bhatta Chief Guest Mr. Sushil Bhattarai Lighting of the Panes by Mr. Sushil Bhattarai
10:00 – 10:20	B. Background, Goals and Objectives of the Workshop Jhamak Bahadur Karki, DNPWC
10:20 – 10:40	C. An Agro-ecosystem Approach to Grassland and Rangeland Management in Protected Areas Camille Richard, ICIMOD
10:40 – 11:00	Tea
	II. PRESENTATION OF TECHNICAL PAPERS A. Terai Grasslands Coordinators: Mr. Narendra Babu Pradhan Mr. Jhamak B. Karki Chairperson: Mr. Sushil Bhattarai
11:00 – 11:20	A Landscape Approach to Managing Terai Ecosystems with Reference to Uttar Pradesh, India V.B. Sawakar
11:20 – 11:40	Status of Research and Monitoring in Protected Areas of the Indian Terai: An Overview P.K. Mathur
11:40 – 12:00	Managing the Terai Grasslands: Recent Research and Future Priorities Nic Peet
12:00 – 12:20	Koshi Tappu's Treasure: Grasslands or Wetlands? Jay Prakash Sah
12:20 – 12:40	Grassland Management Impact on Small Mammals Tika Ram Adhikary
12:40 – 13:00	Effects of Management Practices on the Grassland Vegetation and Their Use by Ungulates in Dudwa National Park, Uttar Pradesh, India Harish Kumar
13:00 – 14:00	Lunch

14:00 – 14:20	Wetlands and Their Importance in Grassland Management in Royal Shukla Phanta Wildlife Reserve Jay Prakash Sah
14:20 – 14:40	Importance of Grasslands in Mega Herbivore Conservation Shanta Raj Jnawali
14:40 – 15:00	Impacts of Grassland Management on Ungulates at Royal Bardia National Park Jhamak Bahadur Karki
15:00 – 15:20	Discussion
15:20 – 15:40	Tea
B. Himalayan Forests and Rangelands	
<i>Coordinators:</i> Mr. Narendra Babu Pradhan Ms. Camille Richard	
<i>Chairperson:</i> Mr. Shyam Bajimaya	
15:40 – 16:00	Representation of Grasslands in the Eastern Himalaya Ecoregions Dr. Khadga Basnet
16:00 – 16:20	Rangeland, Animal Husbandry and Wildlife in Annapurna, Nepal: A Case Study Som Ale
16:20 – 16:40	Alpine Vegetation of North Western India. An Ecological Review Gopal S. Rawat
16:40 – 17:00	Grasslands in the Damodar Kunda Region of Upper Mustang, Nepal Rita Koirala
DAY II (MARCH 17, 1999)	
9:00 – 9:20	Ecological Separation between Ibex and Resident Livestock in a Trans-Himalayan Protected Area Yashveer Bhatnagar
9:20 – 9:40	Participatory Approaches to Rangeland Research and Management: Developing the Action Plan for Rangeland Conservation in Mountain Protected Areas Colleen McVeigh
9:40 – 10:00	Discussion
III. PRESENTATIONS OF STATUS PAPERS AND WORKING GROUP SESSIONS	
10:00 – 12:20	A. Mountain Protected Areas <i>Chairperson:</i> Mr Shyam Bajimaya Tea Langtang National Park Jhamak Karki Kanchenjunga Conservation Area Fanindra Kharel Dhorpatan Hunting Reserve Ramchandra Kandel Khaptad National Park Nilamber Mishra

	Rara National Park Gopal Ghimire Shey Phoksundo National Park Tulsi Ram Sharma
12:20 – 12:40	Discussion
12:40 – 14:00	Lunch
14:00 – 16:00	B. Working Group Session to Prioritise Mountain PA Issues
	Facilitators: Narendra Pradhan and Colleen McVeigh
16:00 – 18:00	Field Trip

DAY III (MARCH 18, 1999)

9:00 – 10:00	C. Terai Protected Areas Chairperson: Mr Shyam Bajimaya Parsa Wildlife Reserve Surya Bahadur Pandey Royal Bardia National Park Shiva Raj Bahtta Shukla Phanta Wildlife Reserve Sher Singh Thagunna
10:00 – 10:20	Discussion
10:20 – 10:40	Tea
10:40 – 11:40	D. Working Group Session to Prioritize Terai PA Issues Facilitators: Jhamak Karki and Narendra Pradhan
11:40 – 14:00	E. Working Group Sessions to Identify Research and Management Guidelines for Terai and Mountain PAs (Lunch) Terai PAs Facilitators: Jhamak Karki and J.P. Sah Mountain PA's Facilitators: Colleen McVeigh and Narendra Pradhan
14:00 – 16:00	F. Working Group Summaries
	IV. CONCLUSION OF THE WORKSHOP AND CLOSING CEREMONY
16:20 – 17:00	Follow-up Actions Closing Remarks and Vote of Thanks
18:30	Reception

About the Editors

Ms Camille Richard is a Rangeland Specialist working in the Mountain Natural Resources' Division of ICIMOD, Nepal.

Mr Jay Prakash Sah is a Lecturer at the Central Department of Botany, Tribhuvan University, Kathmandu, Nepal.

Dr. Khadga Basnet is the Ecoregion Coordinator at Tribhuvan University and the WWF Nepal Program, Kathmandu, Nepal.

Mr Jhamak Bahadur Karki is the Warden, Langtang National Park, Rasuwa, Dhunche, Nepal.

Mr Basant Subba is a Consultant Editor for the Department of National Parks and Wildlife Conservation (DNPWD), Kathmandu, Nepal.

Mr Yogendra Raut is the Assistant to ICIMOD's Rangeland Project, Kathmandu, Nepal.

Participating Countries of the Hindu Kush-Himalayan Region



Afghanistan



Bangladesh



Bhutan



China



India



Myanmar



Nepal



Pakistan



International Centre for Integrated
Mountain Development (ICIMOD)
4/80 Jawalakhel, GPO Box 3226
Kathmandu, Nepal

Telephone

+977 1 525313

Facsimile

+977 1 524509

+977 1 536747

email

distri@icimod.org.np

web site

<http://www.icimod.org.sg>

Cable

ICIMOD Nepal