



UNEP/CMS/BKD/TW1/Inf.2 19 June 2020 Original: English

TECHNICAL WORKSHOP UNDER THE MEMORANDUM OF UNDERSTANDING CONCERNING CONSERVATION AND RESTORATION OF THE BUKHARA DEER (*Cervus elaphus bactrianus*) Online, 19-22 October 2020

ACTION PLAN CONCERNING CONSERVATION AND RESTORATION OF THE BUKHARA DEER (Cervus elaphus bactrianus)

## Action Plan concerning

Conservation and Restoration of the Bukhara Deer (Cervus elaphus bactrianus)





Objective	Programme	Activity	Responsible	Collaborators	Progress/Results	Further Activities
1. Restore range and numbers	1. Examination and support of existing nature reserves inhabited by BD populations	1. Examination and revision of existing nature reserves and their management	WWF LHI WWF PCA Range States	S-CMS	Examination and revision of existing nature reserves and their management was done; urgent needs identified; proposals worked out; particular measures undertaken in some nature reserves (change of the staff for management regulation; rebuilding of the rangers stations, etc.)	Optimal regime of conservation and use need to be identified and approved.
	L-Parameter.	2. Optimisation of the ecosystem development in the nature reserves, inhabited with BD	Range States	WWF LHI WWF PCA	Necessary measures identified for the majority of the nature reserve (work of experts, special round tables organised). The main problem of the majority of riparian forests is identified as a lack of natural watering. Probable ways of artificial watering identified, water can be given to the forests during the spring periods, when it is not needed for the fields.	Special decisions of water-management agencies; special technical support (dike restoration, support with water-pumps and gas for their work, etc.)
		3. Financial and technical support for management work in the nature reserves	WWF LHI WWF PCA WWF Pakistan	S-CMS Range States	Kyzylkumskii (KK), Badai-Tugai (BT) and Zeravshan (Z) zapovedniks (Uzbekistan), Amudarija (AD) zapovednik (Turkmenistan), Tigrovaja balka (TB) (Tajikistan) are supported with equipment (binoculars, cameras, portable Dictaphone, nets for catching animals for translocation, motor boat, uniform for the ranger, bikes (TB), vehicle (AD), capital reparation of old vehicles (AD), etc to enforce the guarding system; on behalf of WWF LHI (Netherlands; support in 1999); CNRS, France, and Embassy of France in Uzbekistan; WWF Pakistan; The major part of support - grant of WWF Netherlands (July 1999-June 2002)	On – going support in the frame of the grant of WWF Netherlands (July 1999-June 2002) Needs for additional support identified (Kugitang zapovednik, Turkmenistan, needs to be included), which need additional sources of funding
ij.		4. Financial and methodological support for biotechnical work in nature reserves	WWF LHI WWF PCA	S-CMS Range States INTAS	KK and BT zapovedniks (Uzbekistan) booked variable fodder to keep pen groups of BD in good condition and for the winter extra-feeding in necessary cases on behalf of WWF LHI (Netherlands; support in 1999) and WWF PCA-Netherlands grant; methodological assistance in Karatchingil (Kch) (Kazakhstan) - on behalf of INTAS grant; in AD, BT WWF PCA-Netherlands grant	On – going support in the frame of the grant of WWF Netherlands (July 1999-June 2002) Needs for additional support identified, which need additional sources of funding
UNEA	£	5. Direct networking between the management of the protected areas	WWF LHI WWF PCA Range States	CMS		

UNED

Objective	Programme	Activity	Responsible	Collaborators	Progress/Results	Further Activities
	2. Development of	Identification of key-	Range States	S-CMS	Suggestions are worked out on additional riparian forest	Creation of protected
	an interstate econet	areas of riparian	WWF PCA		sites for BD conservation	areas of different status
	(system of protected	forests which need			(WWF PCA-Netherlands grant):	in the identified areas;
	areas) which could	special status of			Uzbekistan: Kyzkala (halfly belonging to Turkmenistan),	working out and
	support self-	protection			Kiik-tugai, Kopaly, Shortakli, Gurli, Algara, Gugurtly;	implementation of
	sustainable			4	Isaland and Tyksuat; some sites on Syrdaria;	transboundary
	population				Turkmenistan: Borli, Djigerbent-Karaigyr (both suggested	management plans for
	development of BD				to be zakazniks; documents prepared and passed to the	these areas.
					Ministry), Djarguzar (suggested as a new area of Kugitang	
					zapovednik), Darganata, Gorelde (increase the Gorelde	
					part of Amudaria zapovednik), Kyzkala (halfly belonging	
					to Turkmenistan), Island;	
					Kazakhstan: Totally suitable habitats of BD in Syrdaria	
					valley occupy more then 270,0 thousands hectares, natural	
					rehabilitation of habitats is on-going.	
					Tajikistan: period of protection is prolonged for 10 years	
					for Zeravshan sanctuary (1,6 thousands ha), bordering with	
					Uzbekistan;	
					• In Syrdaria valley are riparian forest Sumagar (30,0 th.	
					ha), Tartogai (27,0 th. ha) Besterek (14,0 th.ha).	
					• In the Ily river valley riparian forests in the National	
					Park "Altyn-Emel" (11,4 th. ha).	
					• It is necessary to organize a network of protected areas	
					of different status in the middle reaches of Syrdaria;	
					By the initiative of the regional administration a	
					special zakaznik is created in Turkestan region, riparian	
					forests of Syrdaria (area 30 th. ha) for the purpose of BD	
					restoration.	
		Integration of the	WWF PCA	S-CMS	Project – brief for the scheme of Econet Development for	Development of the
		bukhara deer	UNEP		Central Asia prepared (GEF-UNEP-WWF project) and	project and its further
		conservation problems	Range States		passed to UNEP; it is integrated into the Regional	implementation with the
		in the project of			Environmental action Plan for Central Asia by the decision	practical development of
		Econet development			of Inter-Regional Sustainable Development Commission	the first model elements
		for Central Asia				of econet

Objective	Programme	Activity	Responsible	Collaborators	Progress/Results	Further Activities
	3. Restoration of the species in suitable habitats with special measures for protection and favourable conditions for reproduction	1. Agreements with local authorities on BD restoration in the region and on special regime of land-use in the surrounding area	Range States	WWF RPO WWF LHI	<ul> <li>Contacts with the Samarkand administration established (Uzbekistan) for BD restoration in Zeravshan;</li> <li>There are migrations of BD from Zeravshan sanctuary (Tajikistan) to the surrounding areas, including Uzbekistan (the population had been created in 1980-th by reintroducing 14 deer);</li> <li>By the initiative of the regional administration a special zakaznik is created in Turkestan region of the South-Kazakhstan oblast (Kazakhstan), riparian forests of Syrdaria (area 30 th. ha) for the purpose of BD restoration; (WWF PCA-Netherlands grant)</li> </ul>	Additional work with the administration of identified areas (p.1.1) e.g., creation of a Syrdaria zapovednik (at least 100 000 ha) and some zakazniks (sanktuaries).
		2. Building pens for the survey of groups of BD for the first year after translocation	Range States	CNRS France Min. of For. Aff., France WWF PCA WWF LHI WWF Pakistan	<ul> <li>Uzbekistan - a system of 3 pens was built in Zeravshan zapovednik, 4 animals were brought from BT in May 1996 and 2 from KK nature reserve in October 1997 (CNRS – grant PICS 260;</li> <li>WWF PCA-Netherlands grant)</li> <li>Kazakhstan - a pen was built in Alamata zoo for intermediate rehabilitation and deer group composition; and in Turkestan zakaznik; first seven deer are brought from the zoo and from Karatchingil President's game area (as a gift from the Government) to Turkestan.</li> <li>(WWF PCA-Netherlands grant)</li> <li>Tajikistan - there are 16 deer in the pens of Shakhrinau forestry.</li> </ul>	Similar works need to be initiated within other suitable areas
		3. Preparation of the necessary store of food including mainly local hay and some mixed fodder and vegetables - for 8-9 month feeding animals in pens	Range States	CNRS France INTAS WWF PCA WWF LHI	Group of animals is supported with the necessary food, reproduction of adults is successful, necessary infrastructure created, store of food booked, etc (CNRS – grant PICS 260; WWF LHI, WWF PCA-Netherlands grant)	Further support of pen groups of animals
UNEAC		4. Preparation of special boxes for individual transportation of animals	Range States	WWF PCA WWF LHI	The first transportation's were done in specially equipped tracks	

Objective	Programme	Activity	Responsible	Collaborators	Progress/Results	<b>Further Activities</b>
		5. Preparation of groups of animals for translocation: •Catching adult animals in existing populations •Collecting and handrearing of new-borns from existing populations	Range States	WWF PCA WWF LHI CNRS France INTAS	<ul> <li>Uzbekistan – Zeravshan – there are 14 animals now (natural reproduction), conditions for setting free the first group – in preparation;</li> <li>There are preliminary agreements on the usage of additional deer from Badai-Tugai</li> <li>Kazakhstan - first two deer are brought from the Alamata zoo to Turkestan; a permission is received from the government of Kazakhstan to catch 6 deer in Karatchingil President's game area for the reintroduction in Turkestan</li> </ul>	Additional deer transportation for the quick and successful population development
		6. Transportation of	Range States	WWF PCA		
		animals 7. Survey of the groups of animals in pens for 1-2 years	Range States	WWF LHI WWF PCA WWF LHI		
		8. Setting the groups free from pens	Range States	WWF PCA WWF LHI		<u> </u>
		9. "Attractive" feeding and watering of BD in the surrounding of the system of pens for 3-5 month (to decrease migratory activity)	Range States	WWF PCA WWF LHI		
		10. Monitoring of reintroduced population	Range States	WWF PCA WWF LHI CNRS France		
2. Reduce mortality	Legal protection measures	1. Ensure that BD is strictly protected by law and that legal instruments for the protection of the	Range States	WWF PCA WWF LHI CITES	Preliminary discussions with official authorities	
UNEA		species and its habitats are being implemented				

Objective	Programme	Activity	Responsible	Collaborators	Progress/Results	<b>Further Activities</b>
		2. Support of the anti- poaching activity	Range States	WWF PCA	Amudaria-basin inspection was created by a special order of the "Gosbiokontrole" department of the State Committee for nature conservation (3 persons in the staff of the department); the inspection is supported with a 4-wheel drive vehicle, binoculars;	Development of the inspection activity (necessary technical support to be completed) in co-operation with the similar works in Turkmenistan (creation of a rangers group on the base of Kugitang zapovednik) and Tajikistan, and frontier troops
	2. Inventory works in existing populations (should be put in the objective 1)	1. Deer census in:  *Tigrovaja balka and neighbouring riparian forests of Vaksh and Piandj (Tajikistan)  *Badai-Tugai nature reserve (Uzbekistan)  *Kyzylkumskii nature reserve (Uzbekistan)  *Karatchingil special wildlife management system (Kazakhstan)	Range States	WWF PCA WWF LHI INTAS	Inventory of a part of bukhara deer populations and condition of ecosystems is recently done: special expeditions were organised along Amudaria in Uzbekistan in September – October 1994 (financially supported by CNRS, France, on PICS 266) and in Turkmenistan in September 1995 (financially supported by MacArthur Foundation; Syrdaria expedition - INTAS project 96 - 1289) TB, KK, Kch – in 1999-2000 Census in BT in autumn 2001; (WWF PCA-Netherlands grant)	Detailed analysis of the populations in Tajikistan; Inventory of habitats and BD census in Surkhandaria region in Uzbekistan; regular monitoring of all populations.
NED	3. Inventory works in deer habitats to identify areas still suitable for the deer (should be put in the objective 1)	1. Expedition along Syrdaria, examining state of riparian forests, possibilities of their restoration and development	Range States	INTAS WWF PCA WWF LHI	Kazakhstan – Syrdaria, Ily, etc. – habitat analysis done (INTAS project 96 – 1289; WWF PCA-Netherlands grant)	Additional analysis of the sites along the Uzbekistan part of Syrdaria, upper (existing and planned sites of Kugitang zapovednik, site Djarguzar) and lower (Karakalpakstan) reaches of Amudaria.
TACS		2. Estimation of the existing data on the forestry inventory and previous expeditions	Range States	WWF RPO, WWF PCA WWF LHI		

Objective	Programme	Activity	Responsible	Collaborators	Progress/Results	Further Activities
		3. Preparation of national Proposals and joint action plan on BD restoration, with definition of the keypoints (different levels of priorities), basing on the recent data on Amudaria and southern Uzbekistan and additional data of regional specialists of the condition of ecosystems	Range States WWF PCA	CMS Secretariat	A complex program on bukhara deer restoration in the USSR (Flint, Pereladova, Mirutenko, 1989) had been worked out. It included all biological characteristics of the species, methodological recommendations for different forms of activities. About 40 points were suggested in our Programme for bukhara deer restoration for reintroduction and increasing the number of animals, with possibilities of increase the number up to 4000 and more. Although the situation is very different now, this document can be used as a background for the further development of Action Plan and Transboundary agreements.	
	4. Increase public awareness	1. Involvement of mass-media (regional, state, local level) in the problem of BD restoration	Range States	WWF LHI WWF RPO WWF PCA	TV programmes on the bukhara deer problems in Samarkand TV, local and national radio (in Turkmenistan, Uzbekistan, Kazakhstan), publications in national and local newspapers (some dozens already) (WWF PCA-Netherlands grant)	Regular work with mass- media of different levels; national TV programs
		2. Practical works of regional specialists with local people: lecture, excursions, involvement of local communities in practical works on BD restoration	Range States	WWF LHI WWF RPO WWF PCA	<ul> <li>Lectures, informational matters and schoolbooks, games for children were prepared for the schoolchildren of different ages – in Russian, Uzbek, Turkmen, and Karakalpak languages – and widely distributed;</li> <li>Special activity of "Girl-scouts" was initiated;</li> <li>In connection with 25-years anniversary of Zeravshan zapovednik, a booklet (with special attention to BD program) is published;</li> </ul>	Further development of the activity, increasing the public awareness of the problem
EP/C					<ul> <li>7 children's Ecological Clubs of Tashkent (Uzbekistan) were collecting acorns in the surrounding mountains - as a winter store of food for our deer; special poems, songs, etc. were prepared and presented by the children;</li> <li>Children's competition on paintings and compositions devoted to BD was organized in Tashkent (7 schools</li> </ul>	,
					participated), Samarkand region (2 schools), districts Karakalpakia (5 schools); numerous schools of 5 districts of Turkmenistan;  • Series of bookmarks were published (devoted to BD	

Objective	Programme	Activity	Responsible	Collaborators	Progress/Results	Further Activities
					conservation) and distributed;	
					Special exhibition was prepared and was presented in	
					11 schools of Samarkand region, together with special	
					lectures, video;	
					Different ecological clubs of the country are starting	
					to participate in different forms of "WWF friends"	
					activities;	
y .					Booklet of Amudaria zapovednik is published	
					(Turkmenistan);	
					• Museums of nature are organized in the administrative	
					buildings of Zr and AD zapovedniks, with a special	
					exposition, devoted to the BD and our program.	
					(WWF PCA-Netherlands grant)	
	20000 00 0000	3. Video on the	Range States	WWF LHI	Special video-film (educational) and tree clips on BD are	
		problem of riparian	5000	WWF PCA	prepared (Ecological Club "Eremurus", Uzbekistan) video-	for TV
		forests of the region			film on BT zapovednik;	
		and BD as its unique			(WWF PCA-Netherlands grant)	
		and very important			*	
		component				Market and
	5. Economic	1. Co-operation	Range States	WWF LHI	Initial background for the ecotourism development in	
	measures	between state		WWF RPO	connection with BD programs being developed.	
		authorities, political		WWF PCA	(WWF PCA-Netherlands grant)	
		decision makers,				
		economic sectors,				
		local communities and				
		associations of land			i	
		users to develop				
		economic activities		,		
		which are not harmful			*	
		to the BD and the				
		biodiversity it				
		depends on in order to				
		raise the acceptance of				
		the local communities				
MEPIO		for the conservation			;	
7000		measures in favour of				
IL (E)	1	the BD and to				
N. V.		compensate for any				

Cretariat

Objective	Programme	Activity	Responsible	Collaborators	Progress/Results	<b>Further Activities</b>
		damage, land users				
		may have from such				
		conservation measures				
*	6. Project on deer	1. Biochemical	Range States	WWF LHI	Biochemical analysis of velvets had been conducted in	
	farming	analysis of velvets of	70	WWF PCA	Tajikistan in the end of 1980-th, approving high activity	
	development	BD		CNRS France	of pantocrene (data in the archive of the Ministry).	
				AgResearch, NZL	Velvets are cut and frozen from the first 2 BD males in	
				Min. of For. Aff.	Kazakhstan;	
				France	Preliminary agreement on analysis with AgResearch, New	
					Zealand	
,		2. Certification of the	Range States	WWF LHI		
		results of biochemical		WWF PCA		
		analysis in the way,		AgResearch, NZL		
		approving further	12			
		development of BD				
		farming and official				
		trade of velvets				
		3. Development of a	WWF LHI	Range States,	Basing on the existing deer farm in Tajikistan (with sika	
		feasibility study	WWF PCA	international and	deer recently) BD farm for velvets can be developed.	
		including proposals		national experts		+
		for one or two		C.I.C.		
		appropriate places,				
		organisations,				
		funding, time frame				
		and assessment of results			2	
	!		Danas Ctatas	WWFLHI		
		4. Preparation of a model project of BD	Range States	WWFPCA		
	i	farnt, using existing		C.I.C.		
		recommendations		C.I.C.		
		(biological and		ì	•	
	2	technically, norms and	!	!	ī 4 1	
	9	models on sika deer.			) :	
		with special				İ
NEP		corrections, connected		1		
NEP C		with ecological	1	į		
IR	1	characteristics of BD				

Objective	Programme	Activity	Responsible	Collaborators	Progress/Results	Further Activities
3. Enhance	1. Improve	1. Designate national	Range States			
international	exchange of	co-ordinators with	******			
co-operation	information and	responsibility for				
	technical expertise	liasing with				
		counterparts in other				
		Range States and with				
		co-operating				
		organisations				
		2. Provide central co-	S-CMS	WWF PCA	Joint database on BD is created (including references, data	
		ordination of	WWF LHI		on BD reproduction in the zoos of the world, etc.) and	
		information exchange			published	
					(WWF PCA-Netherlands grant)	
		3. Organise regular	S-CMS	WWF PCA		
		meetings of BD	WWF LHI			
		Range States				
		4. Provide technical	Range States	WWF PCA		
		training for field staff		WWF LHI		
	2 Raise funds for	1. Develop	Range States	WWF LHI		
	conservation	comprehensive project	WWF PCA	S-CMS	!	
	programmes	proposals, both on				
		country basis and			į	
		transborder				
		programmes, for				
		submission to				
		appropriate agencies				
	3. Involve	1. Develop one or	C.I.C, national	WWF PCA		
	international	more projects on how	hunters			
	organisations of	the C.I.C. could on	organisations			
	users and other	global, regional and				
	stakeholders	national level assist in	Range States			
		reaching the aims of				
		conservation and		Ì	ļ	
	1	sustainable use		1		



## Abbreviations/Acronyms:

AgResearch New Zealand - Deer Farming Association, both commercial and scientific

AD Amudarija BD Bukhara deer BT Badai-Tugai

C.I.C International Council for Game and Wildlife Conservation

CNRS Centre National de la Recherché Scientifique, the main organisation for fundamental scientific research in France, including 7 departments (Science de la Vie - Biology - one of them), 1300

institutes and laboratories

INTAS International Association, special program of the European Commission for international technical assistance for CIS (Independent States of the former Soviet Union), with regular calls for

grants in different fields of science.

Kch Karatchingil KK Kyzylkumskii

MoFor Aff, FR Ministry of Foreign Affairs of France, which is supporting the work through their embassies in the countries (embassy in Uzbekistan was already very helpful)

S-CMS Secretariat of the Convention on Migratory Species (UNEP/CMS Secretariat)

TB Tigrovajabalka

WWF World Wide Fund for Nature
WWF PCA WWF Programme for Central Asia
WWF LHI WWF Large Herbivore Initiative

Z Zeravshan

