

COMMUNITY-BASED SUSTAINABLE USE CONSERVATION

Some Aspects Common to Successful Programs

November 2016-Mike Frisina

Community-Based Sustainable Use Projects

Among the major issues to be documented for legitimacy are:

- 1. Funding.**
- 2. Community acceptance.**
- 3. Conservation goals.**
- 4. Monitoring**
- 5. Document accomplishments.**

Community-Based Sustainable Use Projects

Torghar conservation program in Pakistan will be used to illustrate how the following five items were handled:

- 1. Funding.**
- 2. Community acceptance.**
- 3. Conservation goals.**
- 4. Monitoring**
- 5. Document accomplishments.**

Torghar Community-Based Project Sulaiman Markhor

Capra falconeri megaceros [jerdoni]



1. Funding



Torghar



USFWS was initially contacted to provide recommendations.

1. Funding



Capra falconeri megaceros [jerdoni]



Ovis orientalis cycloceros

1. Funding



Torghar



Trophy hunting is not a goal of STEP, but a means of funding the conservation program.

2. Community acceptance

Human Setting



2. Community acceptance

Human Setting



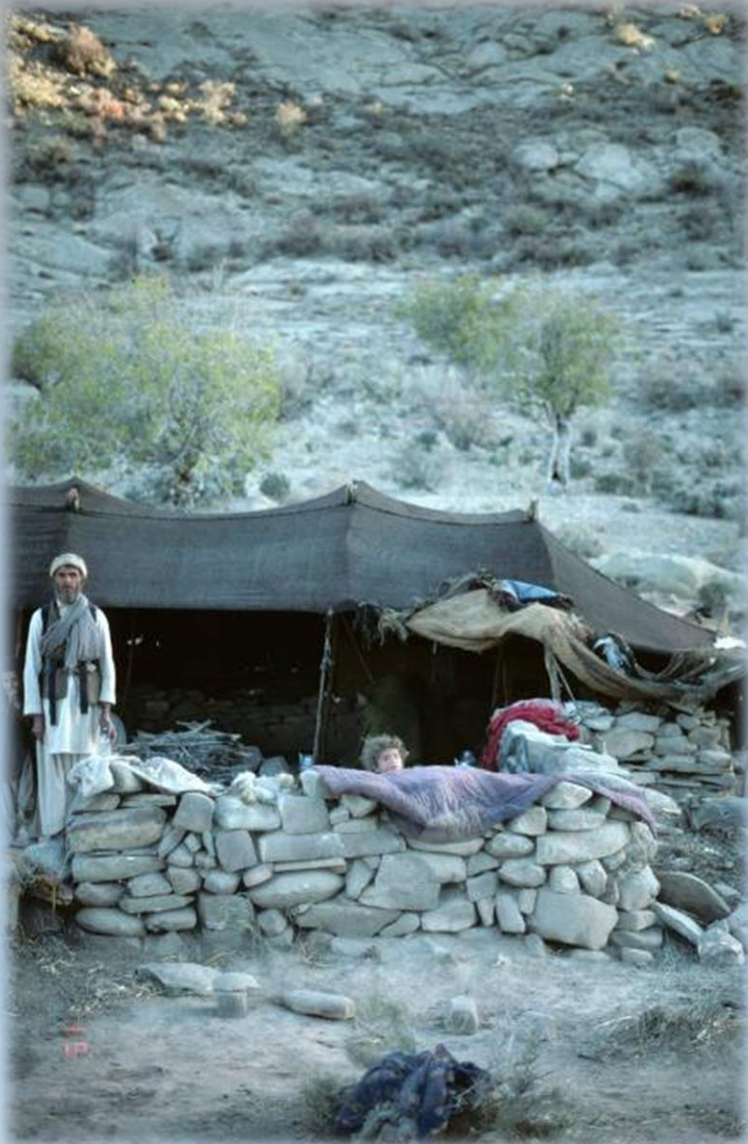
Livestock



Orchards

2. Community acceptance

Human Setting



To conserve the biodiversity of Torghar it is essential to improve the lives of people in the local community.

2. Community acceptance

Human Setting

Game Guard Program

After careful consideration, tribesmen agreed to accept a ban on hunting in exchange for the potential employment opportunities and economic benefits associated with a conservation program.

3. Conservation Goals

Conserve Biodiversity

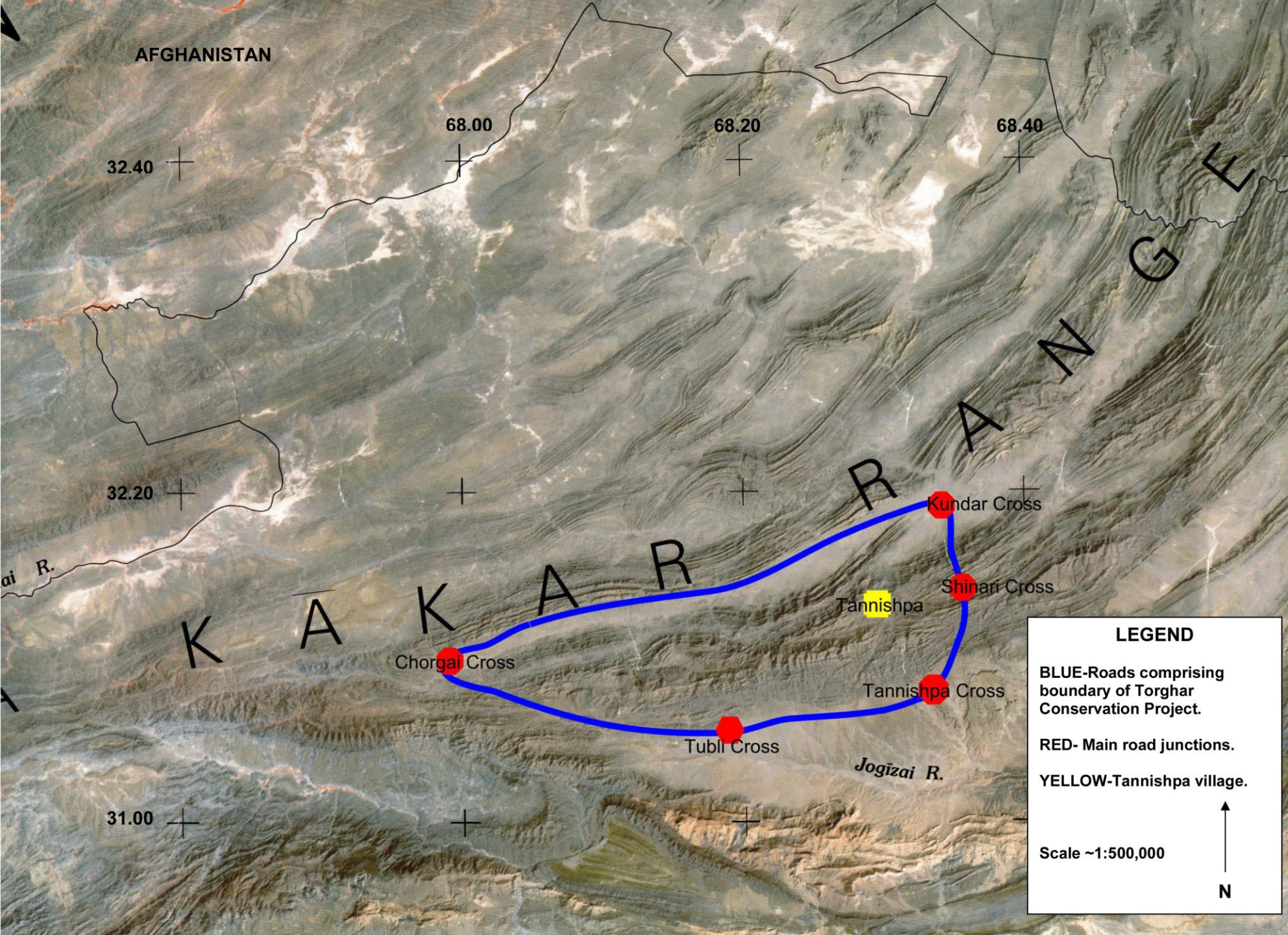
- Conservation of markhor the primary goal.
- Overall biodiversity also a goal.



4. Monitoring

Monitor markhor and urial populations

- **Develop a systematic approach for monitoring population trend.**
- **Develop a systematic approach for determining sustainable hunting quotas.**
- **Monitor hunter harvest levels.**
- **Monitor habitat health and quality.**



1800 Square km
area.

Torghar
Conservation
Project

4. Monitoring

Markhor and Urial Population Surveys

With assistance a population survey protocol was developed.



4. Monitoring Community Benefits

- **Account for expenditure of revenues derived from hunting.**
- **Document specific benefits to local people.**
- **Frequently assess the needs of the community and their level of satisfaction with the program.**

5. Accomplishments

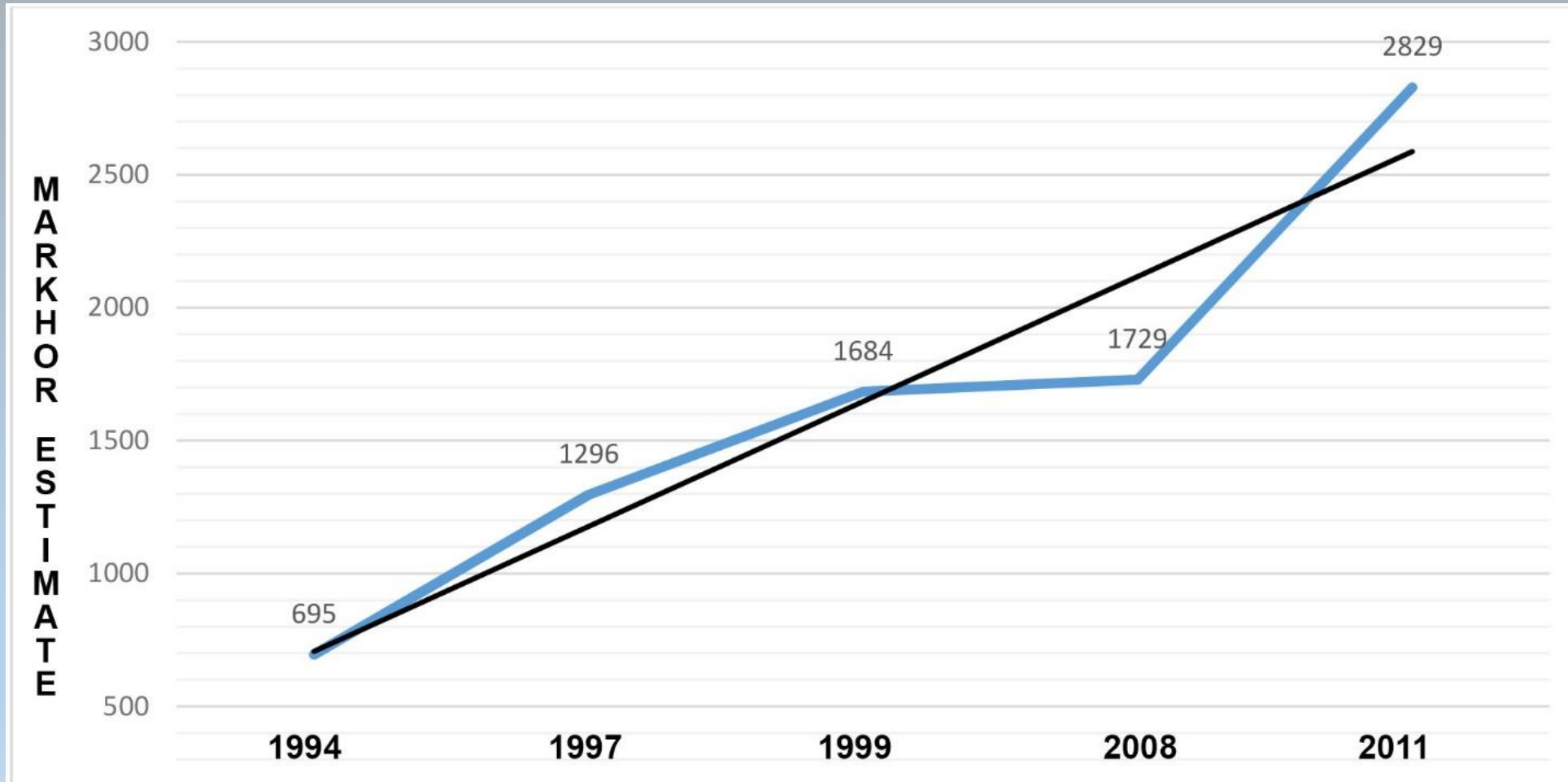
Conservation of markhor and urial

Year	Markhor	Urial
1985	<100	~200
2011	~2,829	~1,181

5. Accomplishments



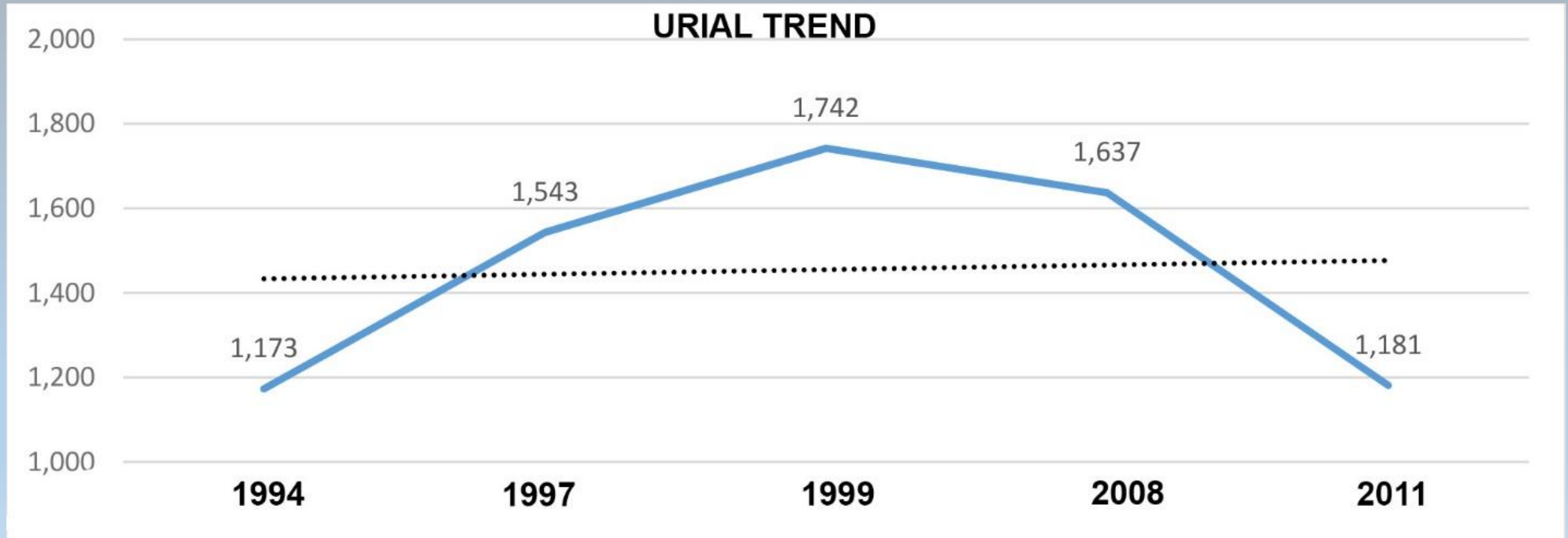
1985 <100



5. Accomplishments



1985 >200



5. Accomplishments

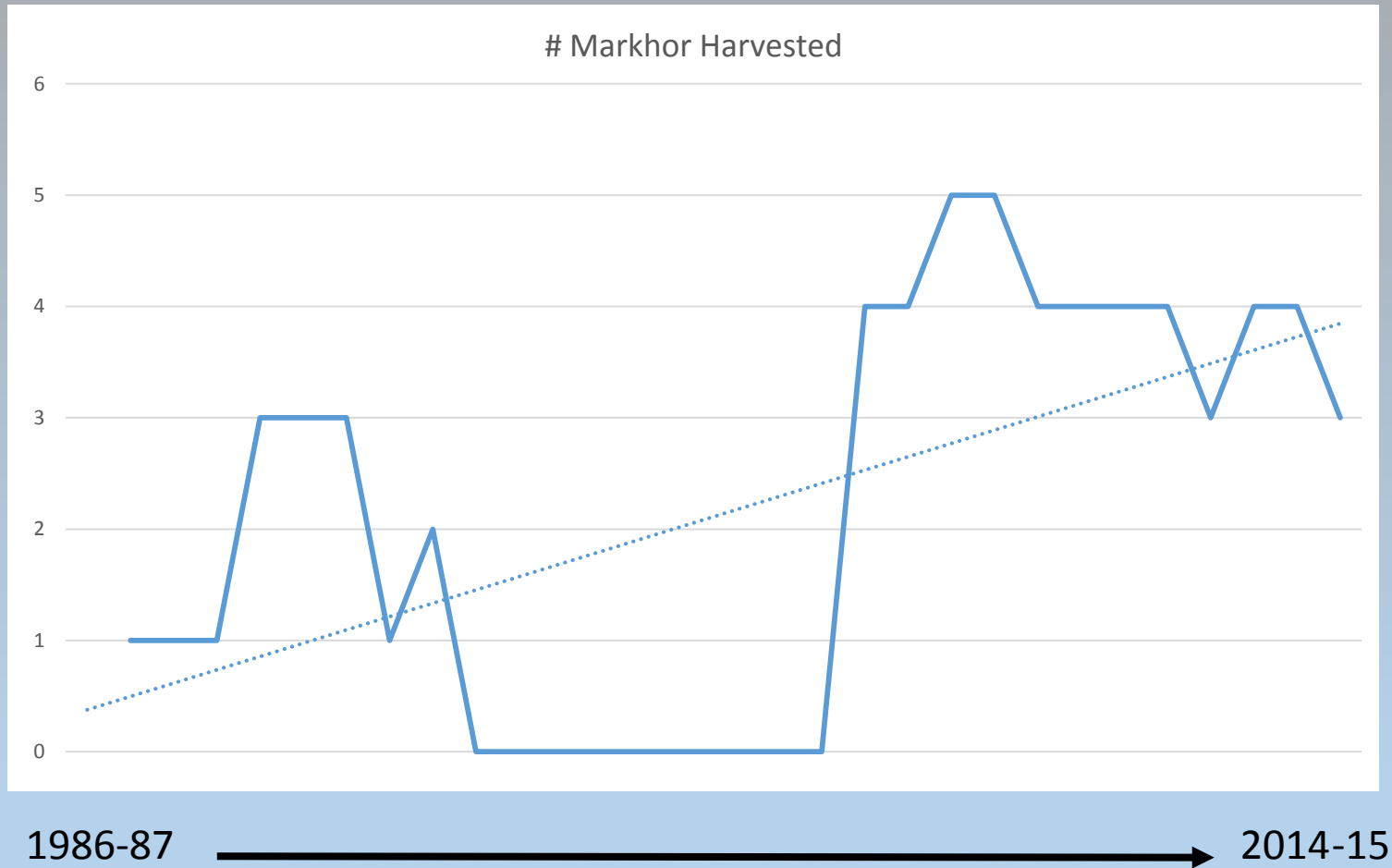


Harvest 0 to 5 markhor annually . Average 2



***Harvest 0 to 7 urial annually .
Average 3***

5. Accomplishments



63 markhor

5. Accomplishments

Table 9.2 Proportion of trophy and adult males observed in the population during the years of trophy hunting.^a

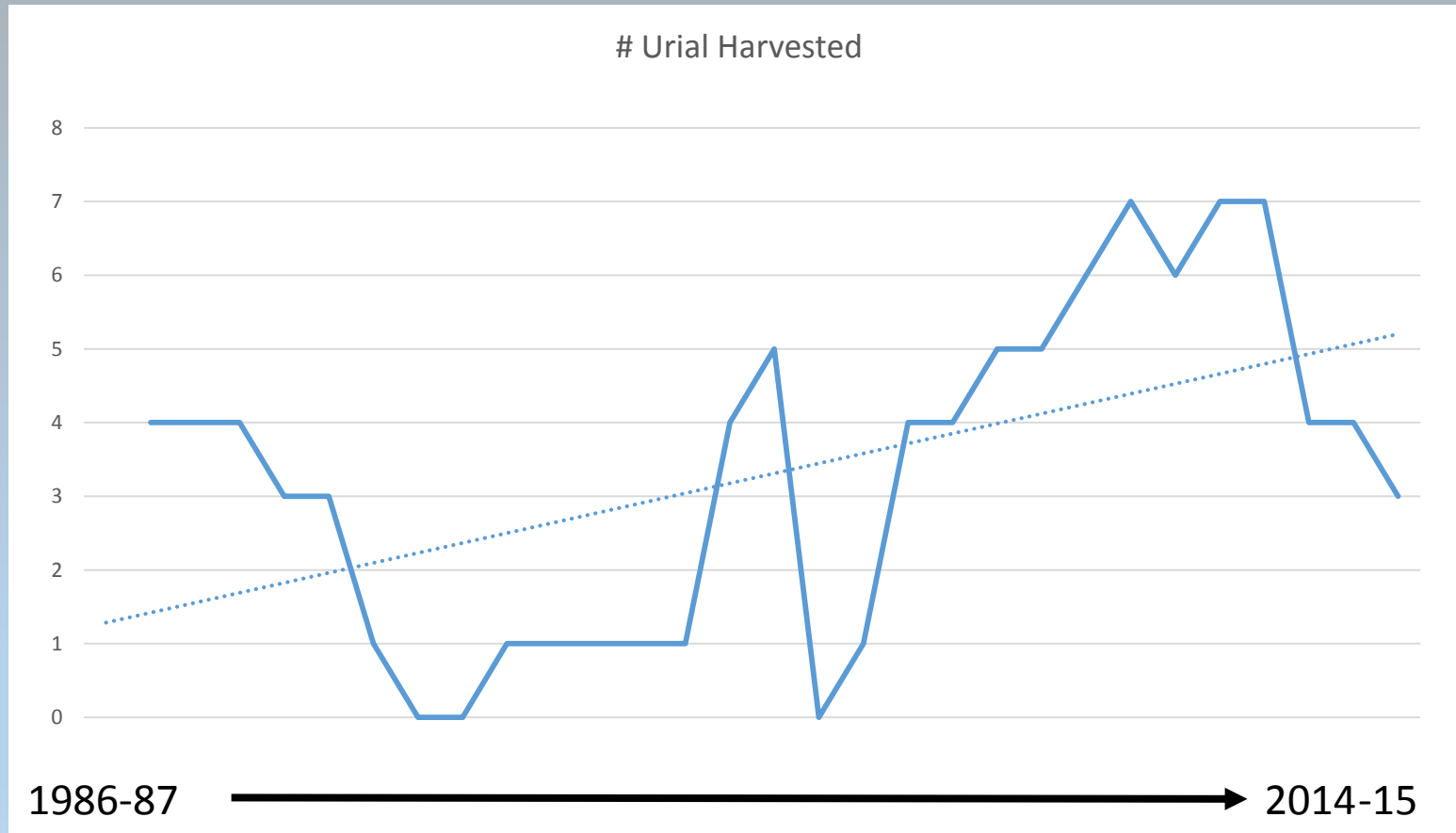
Species	Trophy males			Adult males			N ^b
	≥6 years	Range	SD	≥2.5 years	Range	SD	
Markhor	14%	10–17	2.9	24%	13–29	7.2	4
Urial	16%	10–25	6.5	32%	24–49	11.8	4

^aData from Johnson (1997a), Frisina *et al.* (1998), Frisina (2000), and Shafique (2006).

^bN = the number of annual autumn (fall) census surveys.

5. Accomplishments

96 urial



5. Accomplishments

Habitat



Conservation efforts emphasize protection of all wildlife within the TCP.

5. Accomplishments

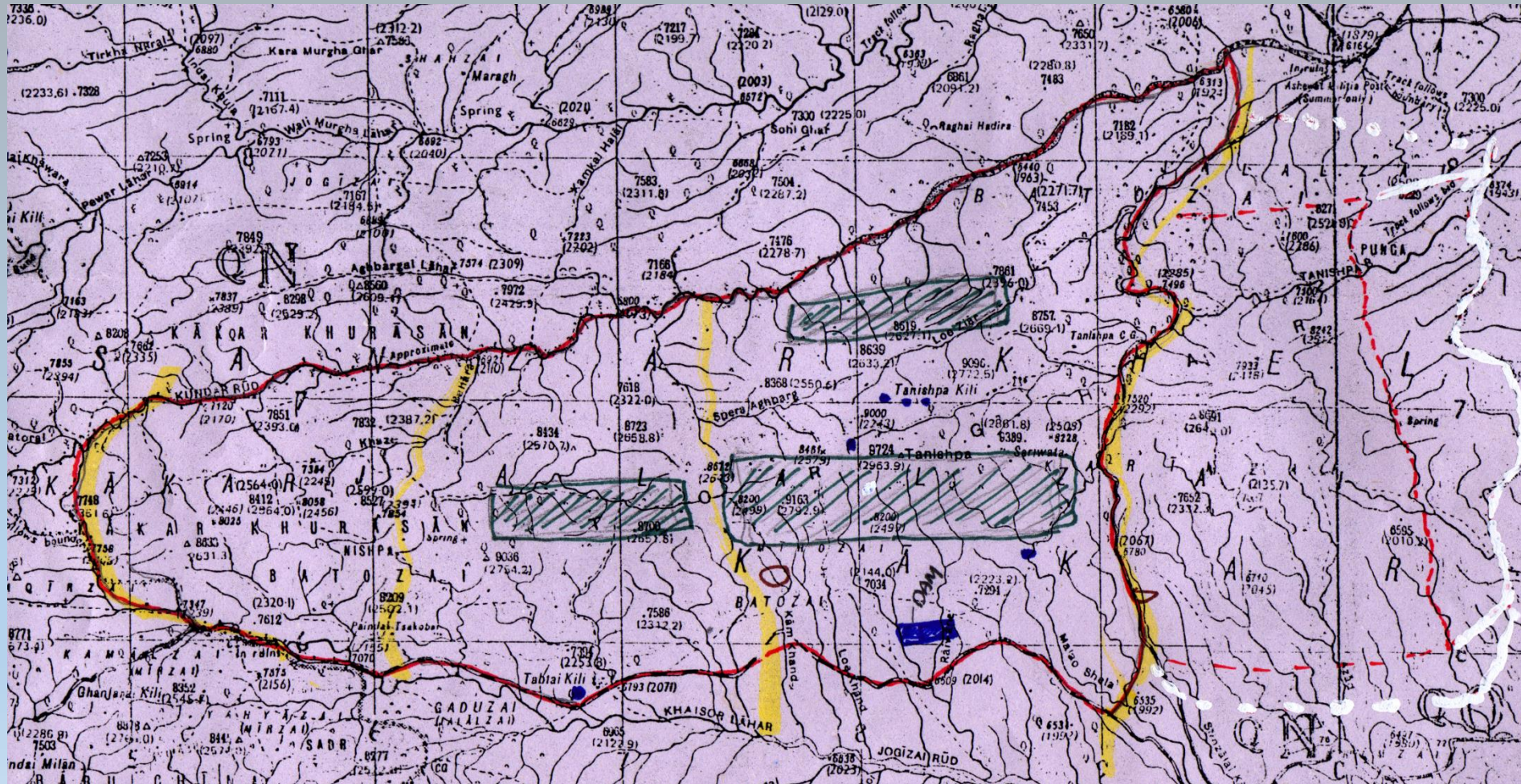
Habitat

In 2000, following 4 years of severe drought, the people at Torghar made the decision to tie their future more to wildlife.



5. Accomplishments

Habitat



5. Accomplishments

Habitat



Control of
livestock

5. Accomplishments

Habitat



STEP has trained 10 veterinary and agriculture technicians.

Maintain fewer but healthier livestock.

5. Accomplishments

Community Benefits

Since 1986 the trophy harvest has brought in a total income of *US \$2,552,800* (less *US \$454,000* in required fees paid to the government of Balochistan). Net to STEP *\$2,098,800*

5. Accomplishments

Community Benefits

Health Care



A portion of the funds are used to provide health care for the local people.

5. Accomplishments

Community Benefits

Water Supply



STEP with joint support from UNDP has developed water tanks, wells, channels, and storage dams.

5. Accomplishments

Community Benefits

Road Repair



5. Accomplishments

Community Benefits

Improved Agriculture



STEP has assisted with development of agricultural fields and provided fruit and firewood sapling trees for orchards.

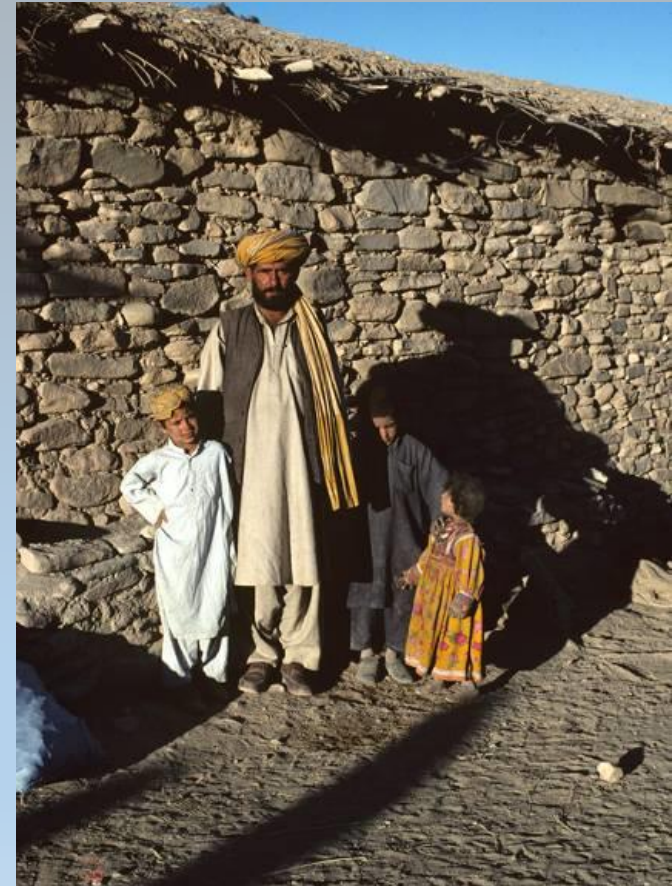
5. Accomplishments

Community Benefits



STEP employs 10 veterinary and agriculture technicians.

STEP employs 95 game guards



5. Accomplishments

Community Benefits



5. Accomplishments



*An interdependent
future.*



Acknowledgements:

Conservation Force

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