



# Integrated Feed and Livestock Management

Progress report 1 June 2006 – 31 May 2007



Barbara Rischkowsky and National Coordinators



## Project implementation

- Site selection and start of team building in CA in June 2006
- Inception workshops in September 2006 in CA (whole ICARDA team)
- Inception workshop in Pakistan (Asamoah Larbi, Abdl Majid)
- Pakistani teams started project implementation in October 2007
- First annual workplan & budget sent to IFAD 19 December 2007 by Luis Iniguez
- Project coordination taken over by B. Rischkowsky in January 2007
- Most activities in CA started in January/February 2007



## Project implementation – Team building in CA

Themes	PI at HQ	NPO	PIs in Countries
<b>1: Socio-economics</b>	Aden Aw-Hassan	Nariman Nishanov	<b>Tad:</b> SH. Makhmudov G. Safaraliev <b>Kaz:</b> A. Nurridin <b>Kyr:</b> J. Isakov U. Osmonaliev
<b>2: Range &amp; Forage Productivity</b>	Asamoah Larbi	Aziz Nurbekov	<b>Tad:</b> M. Bokiev A.A. Madaminov <b>Kaz:</b> S. Abdraimov <b>Kyr:</b> K. Joldoshev & I. Ponomarenko
<b>3: Improvement of livestock productivity</b>	Barbara Rischkowsky & Luis Iñiguez	Vacant	<b>Tad:</b> M. Kasimov F.M. Ikromov <b>Kaz:</b> M. Tuekbasov <b>Kyr:</b> A. Ajibekov



## Project implementation - Team building in Pakistan

### **National Coordinator**

Sartaj Khan, NARC Islamabad

### **Administrative support**

Dr. Abdul Majid, Country office, ICARDA

### **Coordination of Socioeconomics**

Dr. Azeem Khan and Dr. Aden Aw-Hassan

### **Rainfed site Gujar Khan**

Team leader: Sartaj Khan, Forage Specialist, NARC, Islamabad

Dr. Muhammad Zubair, Social Scientist, NARC, Islamabad

Dr. Muhammad Ansar, Crop Scientist, Arid Agriculture University, Rawalpindi

Dr. Imdad Hussain, Animal Nutritionist, NARC, Islamabad

Tariq Aziz, Dairy Technologist, NARC Islamabad



## Project implementation - Team building in Pakistan

### Irrigated site Sargodha

Team leader: Akhtar Ali, Forage specialist, Fodder Research Institute, Sarghoda

Dr. Muhammad Sadique Javed, Agricultural Economist, Univ. of Agriculture, Faisalabad

Dr. Ghulam Mohy Ud Din, Plant Scientist, Fodder Research Institute, Sarghoda

Dr. Qurban Hussain, Animal Nutritionist, Livestock Dept. Sargodha,

Dr. Nuzhat Huma, Dairy Technologist, Univ. of Agriculture, Faisalabad



## Theme 1: Socioeconomics

### Activity 1. Analysis of rural livelihoods in Kazakhstan, Kyrgyzstan & Tajikistan

- Research site selection and village profiles in all countries
- Kazakhstan: Rapid Rural Appraisal 150 households in May 2007 in Akdala village
- Kyrgyzstan: RRA with 100 households from February-May 2006
- Tajikistan – Khojand: Informal interviews with about 50 informants in Ujas and Karochingil villages including householders, producers, processors, sellers, middlemen (procurers), and buyers of the angora mohair



## Theme 1: Socioeconomics

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### **Activity 2. Socioeconomic evaluation of the technological options (impact on rural livelihoods)**

Kazakhstan:

- Analysis of some livestock production technologies and cost calculation

Kyrgyzstan

- Preliminary analysis of fattening and cost/benefit analysis for a flock of 10 ewes

Tajikistan

- Preliminary analysis of gains from Mohair production in Liba's report



## Theme 1: Socioeconomics

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### **Activity 3. Analysis of markets and farmers' access to markets**

- in Kazakhstan (meat)
- in Tajikistan (Mohair goat fiber and meat)
- in Kyrgyzstan (lambs)

Progress:

- Market survey started in January 2007 (prices from January to August 2007), exception Dusti community/Tajikistan
- Market channels and market chain analysis in progress

Technical report on rural livelihoods and market analysis in preparation to be finalized latest end 2007



## Theme 1: Socioeconomics - Pakistan

### Pakistan

#### Activity 1. Participatory Rapid Rural Appraisal

- Village selection (different number of villages visited)
- Village profiles
- Farmers' typologies
- Selection of participating farmers

#### Activity 2. Impact assessment

- Farmers' perception on technologies
- Rough cost/benefit calculation
- Framework developed



#### Activity 2. Socioeconomic Evaluation of the technological options

- Plan the data collection for the economic assessment of proposed new technologies with the other research teams in July/August 2007

#### Activity 3. Market analysis

- to be continued till April 2008 and with less frequency throughout the project to capture seasonal and annual variations



## Theme 2: Range and Forage Productivity

### Activity 4. Evaluation and dissemination of improved fodder crops and agronomic packages

#### 4.1 Assessment of current status of fodder crop production

- in Kyrgyzstan: on medium size farms (Alymseit & Kenesh)
- in Kazakhstan: brief description of situation
- in Tajikistan (Dusti jamoat): grazing systems analyzed and status of rangelands monitored
- in Pakistan: feeding calendar
  
- Questionnaire developed for a comprehensive survey in all participating and neighboring farms



## Theme 2: Range and Forage Productivity

#### 4.2 Integration of forages in cropping systems

- Kyrgyzstan: Alfalfa planted in wheat and in barley in two medium scale farms, monitored yield of alfalfa from previous years
- Kazakhstan: Alfalfa and corn planted on one pilot farms & in three communities
- Dusti jamoat/Tajikistan: early maturing variety of maize vs. traditional after winter crop and sainfoin vs. alfalfa tested on framers' fields
- Khojand/Tajikistan: some demonstration plots with maize planted in irrigated areas and yield of alfalfa from previous year monitored
- Pakistan: a full range of winter and summer crops tested (improved varieties, new forages, mixes) and options for forages selling enterprise & seed production were tested



## Theme 2: Range and Forage Productivity

### *4.3 Improving carrying capacity of degraded rangelands around villages*

- Rotational grazing of rangelands in Kazakhstan
  - Baseline monitoring of soils and botanical composition in two larger farms
  - Experiment started in May on the two farms
- Rotational grazing of winter ranges in Khojand/Tajikistan plus pasture improvements
  - Users monitored & rotational system developed
- Rotational grazing between winter and summer ranges for small farmers in Dusti community
  - Flocks have been monitored in April 2007 and joined for summer grazing



## Theme 2: Range and Forage Productivity

### *4.3 Improving carrying capacity of degraded rangelands around villages*

- Improvement of natural rangelands in Kazakhstan
- Improvements of haymaking fields in natural ranges in Kyrgyzstan



## Theme 2: Range and Forage Productivity

### Activity 5. Promoting use of fodder, crop residues & agro-industrial products for animal feeding

#### 5.1 Assessment of feed resources & feeding calendars

- same questionnaire as for 4.1

#### 5.2 Supplementation to improve milk, meat & wool production

- Rainfed/Pakistan: Testing of new forages and concentrates on milk production of cows and buffalos
- Irrigated/Pakistan: Evaluation of different fodder crop varieties (green fodder) and concentrates on milk yield and milk quality in buffalos & cows and on fattening of buffalo & cattle calves



## Theme 3: Livestock productivity

### Activity 6 & 7. Early lambing, early weaning & milking of ewes in Kazakhstan

- Participating farmers identified
- Baseline data recorded (weights of ewes and lambs, physiological status & body conformation of ewes)
- Milk yields
- Preparation of ewes for mating (timely weaning of lambs)





## Theme 3: Livestock productivity

### Activity 8 & 12. Community based household sheep & cow milk processing in Kazakhstan & Kyrgyzstan

- Milk marketing explored in both countries

#### Kazakhstan

- Local knowledge on milk processing documented
- Milking time hand versus machine milking
- Milk composition in Karaku sheep
- Brienza composition from ewes of different age

#### Kyrgyzstan

- Ayran production with sheep milk in Kyrgyzstan
- Community meetings to discuss possibilities for cooperative milk marketing



## Theme 3: Livestock productivity

### Activity 10. Production diversification: introducing sheep milk production in Kyrgyzstan

- Experiments are being carried out on a medium size pilot farm
- Evaluation of performance and economics of dairy Awassi sheep farming





## Theme 3: Livestock productivity

### Activities 9 & 13 & 17. Improvement of livestock management to increase productivity on small farms in Kyrgyzstan & Tajikistan

- Participating farmers and control farmers identified,
- Plans for improved management developed based on analysis of constraints and discussions with farmers
- Animals marked & baseline animal data recorded
- Animal health plan started in Kyrgyzstan on medium scale farms & in communities? and Training of farmers on animal health care



## Theme 3: Livestock productivity

### Activity 10. Production diversification: introducing sheep milk production in Kyrgyzstan

- Experiments are being carried out on a medium size pilot farm
- Evaluation of performance and economics of dairy Awassi sheep farming





## Theme 3: Livestock productivity

### **Activity 11 & 15. Set the basis for a decentralized & participatory breeding plan for farmers to access improved animals**

#### Merino sheep in Kyrgyzstan:

- Improved rams from research breeding station were pre-selected by researchers
- Creation of collaborative units in the communities

#### Mohair goats in Tajikistan (Activity 14):

- Flock structure & wool yields
- 70 wool samples tested in Almaty and 63 sent for cross-checking in certified lab
- New selection standard is being developed



## Theme 3: Livestock productivity

### **Activity 16. Value added local processing of goat fibers by women in Tajikistan**

Presentation by Liba Brent





## Theme 4: Knowledge exchange & Capacity building

### Knowledge exchange

- Planning workshops at national level: Aug. 2007
- Interregional workshop: Sep. 2007 in Bishkek

### Capacity building

- Socioeconomics Training: Interregional workshop 24 March 2007 in Shymkent/Kazakhstan
- Planning workshop on Theme 2 Forage & Range at regional level: May 2007
- Training of Nariman Nishanov at ICARDA: in July 2007



## Difficulties encountered

### Central Asia

- Delayed start
- Change in project coordination
- Difficulties in recruiting in NPOs
- Redirection of emphasis to small farms

### Pakistan

- Problem with participation of NARC scientists
- Problems in involving scientists from universities

### Progress reports and work plan

- Financial administration relatively complicated & not yet optimized
- Last minute delivery before national workshops
- Wrong planning of intervals between National Workshops & SCM



ICARDA

## Expenditures 1 June 2006- 30 June 2006



### Total Budget (IFAD grant design document)

	Year 1	Year 2	Year 3	Total
Personnel				
ICARDA	62,770	62,770	62,770	188,310
National NPOs (Central Asia = 3)	14,400	14,400	14,400	43,200
Partners	10,500	10,500	10,500	31,500
Sub-Total	87,670	87,670	87,670	263,010
Travel	90,000	90,000	90,000	270,000
Equipment, Materials and Supplies				
Capital	60,000	40,000		100,000
Materials and supplies	50,000	50,000	50,000	150,000
Sub-Total	110,000	90,000	50,000	250,000
Training	28,000	24,000	18,000	70,000
Workshops and Meetings				
Regional workshops	20,000	20,000	20,000	60,000
Annual National Coordination meetings	15,000	15,000	15,000	45,000
Annual Regional coordination meetings	30,000	30,000	40,000	100,000
Sub-Total	65,000	65,000	75,000	205,000
Reporting and publications	3,000	5,000	7,000	15,000
<b>Total Direct Costs</b>	<b>383,670</b>	<b>361,670</b>	<b>327,670</b>	<b>1,073,010</b>
Indirect costs (12%)	46,040	43,400	39,320	128,760
<b>Total IFAD Contribution</b>	<b>429,710</b>	<b>405,070</b>	<b>366,990</b>	<b>1,201,770</b>

### Budget expenditures 1 June 2006 – 30 June 2007

	Budget Year 1	Spent 2006	Spent 2007	Not yet re- ported to HQ	Balance 1st year
<b>Personnel</b>					
ICARDA	86000	13975	18494		53531
Partners					
<b>sub total</b>	<b>86000</b>	<b>13975</b>	<b>18494</b>		<b>53531</b>
<b>Travel</b>	<b>92440</b>	<b>21839</b>	<b>19857</b>		<b>50744</b>
<b>Equipment, Material and Supplies</b>			0		0
Capital	74000	35627	1335	18339	18699
Materials and Supplies	56130	15200	17066		23864
<b>sub total</b>	<b>130130</b>	<b>50827</b>	<b>18401</b>	<b>18339</b>	<b>42563</b>
<b>Training</b>	<b>25100</b>	<b>0</b>	<b>2523</b>		<b>22577</b>
<b>Workshop and Meetings</b>					
Regional workshops	16000		13434		2566
Annual National Coordination meetings	15000		0		15000
Annual Regional Coordination meetings	16000	18524	0		-2524
<b>sub total</b>	<b>47000</b>	<b>18524</b>	<b>13434</b>		<b>15042</b>
<b>Reporting and Publications</b>	<b>3000</b>		<b>0</b>		<b>3000</b>
<b>Total Direct Cost under 267</b>	<b>383670</b>	<b>105165</b>	<b>72709</b>	<b>18339</b>	<b>187457</b>
CA & Pakistan Country budgets			18450	42417	60867
<b>Total Direct Costs</b>	<b>383670</b>	<b>105165</b>	<b>91159</b>	<b>60756</b>	<b>126590</b>
Indirect Cost (1.2%)	46040	12620	10939	7291	15190
<b>Total</b>	<b>429710</b>	<b>117785</b>	<b>101980</b>	<b>68047</b>	<b>141897</b>



### Budget expenditures in countries

#### 1 January – 30 June 2007

- Central Asia (BC 271-273): 47 925
- Pakistan (BC 270) : 16,753 + 2023 = 18 776

