CRP Dryland Systems

Activity Cluster:

(CA) 4.5 Establish a seed systems platform compatible with existing agro-ecological environments to supply farmers with high quality seed and planting materials so as to improve livelihoods, food security and incomes of smallholders

Action Site: Aral Sea Region

Year: 2014

Reporting Center: ICBA

Outputs:

1. Seed production of 4 varieties of sorghum on 6.0 ha, 1 variety of pearl millet on 1.0 ha, 1 variety of alfalfa on 2.5 ha and six species of perennial shrubs on 7.4 ha
2. Optimum recommendations on seed quality control and postharvest storage on-farm level

Outcomes:

1. Seventeen ton seed produced (11.5 ton of 4 sorghum varieties, 0.04 ton of 1 pearl millet variety, and 4.9 ton of 7 species of fodder).
2. Twelve seed growers (8 men and 4 women) trained in postharvest practices on seed quality and storage

Partners:
Uzbek Scientific Research Corn Station and Institute of Karakul Sheep Breeding and Desert Research, Uzbek Scientific Production Centre of Agriculture
Karakalpakstan Branch of Tashkent Agrarian University, Nukus, Karakalpakstan
Nukus Experimental Forestry Station, Republic Scientific and Production Center of Decorative Horticulture and Forestry
Karakalpakstan Branch of Rice Institute

Title of subactivity:

Seed production of salt tolerant forage crops and perennial fodder rangelands shrubs

Production of super-elite (high quality) seeds salt tolerant varieties of sorghum, pearl millet, alfalfa and forage perennial shrubs on farm trials

Crop nomenclature	Location	Area (ha)	Seed produced (ton)
Sorghum Var			
Uzbekistan 18	Azamat Farm, Khegeli district, , KArakalpakstan	2.0	3.0
Boy Dzugara	Azamat Farm, Khegeli district, , KArakalpakstan	1.0	2.5
Korabosh	Azamat Farm, Khegeli district, , KArakalpakstan	2.0	3.0
Davlet,	Azamat Farm, Khegeli district, , KArakalpakstan	1.0	3.0
Pearl Millet var			
Local released Hashaki 1 var	Azamat Farm, Khegeli district, , Karakalpakstan	0.3	0.25
	Kyzylkesek fram, Madaniyat district, Uzbekistan	0.2	0.15
	Gafurov Farm, Sogd province, Tajikistan	0.5	0.015
Alfalfa (variety 'Kyzylkesek')	Kyzylkesek fram, Madaniyat district, Uzbekistan	2.5	0.5
Kochia prostrata	Tutli farm, Nurata region, Uzbekistan	5.0	3.0
Kochia scoparia	Kyzylkesek fram, Madaniyat district, Uzbekistan	1.0	0.5
Atriplex nitens	Kyzylkesek fram, Madaniyat district, Uzbekistan	1.0	0.30
Atriplex undulata	Kyzylkesek fram, Madaniyat district, Uzbekistan	0.09	0.20
Ceratoides ewersmanniana	Kyzylkesek fram, Madaniyat district, Uzbekistan	0.3	0.20

Haloxylon aphyllum	Kyzylkesek fram, Madaniyat district, Uzbekistan	Artificial plantation (free collection by commmunity)	0.20

Uzbek Experimental Corn station is developing the seed production system of these crops with participatory work of local seed growers; criteria for seed purity control in the filed are maintained.

Training on postharvest control of seed quality and storage:

- Dates of training in collaboration with with UNDP :
  - 20-23 September 2014 in Nukus;
  - 18-21 November, 2014 in Bukhara
- Trainers:
  - Seed multiplication of sorghum and pearl millet
    - Dr. Igor Masssino (Uzbek Corn Research Station)
    - Dr Davlet Edenbaev (Karakalpakstan Branch of Uzbek Corn Research Station)
  - Seed multiplication of legumes
    - Dr. Zulfiya Sultanova (Nukus Branch of Tashkent , Agrarian University)
  - Seed multiplication perennial fodder shrubs
    - Dr. Kristina Toderich
    - Dr. Tolib Mukimov
    - Dr Himoil Rakhmatullaev
- Participants:
  - 12 seed growers (farmers) from Nukus region
  - Training venue: Khegeli farm , Nukus