



# Introduction of advanced technologies in WUA “Akbar Abad”

**Ferghana province. Uzbekistan**

Total number of WUA members constitutes 125 farms including:

- 70 farms specializing in cotton and grain farming;
- 45 farms specializing in horticulture;
- 10 Community self-administration districts.

Total irrigated area of WUA constitutes 3051 ha, Including:

- Cotton – 1092 ha
- Grain – 756 ha
- Gardens – 360 ha
- Homestead land – 705 ha
- Others – 138 ha

Major water sources for WUA are:

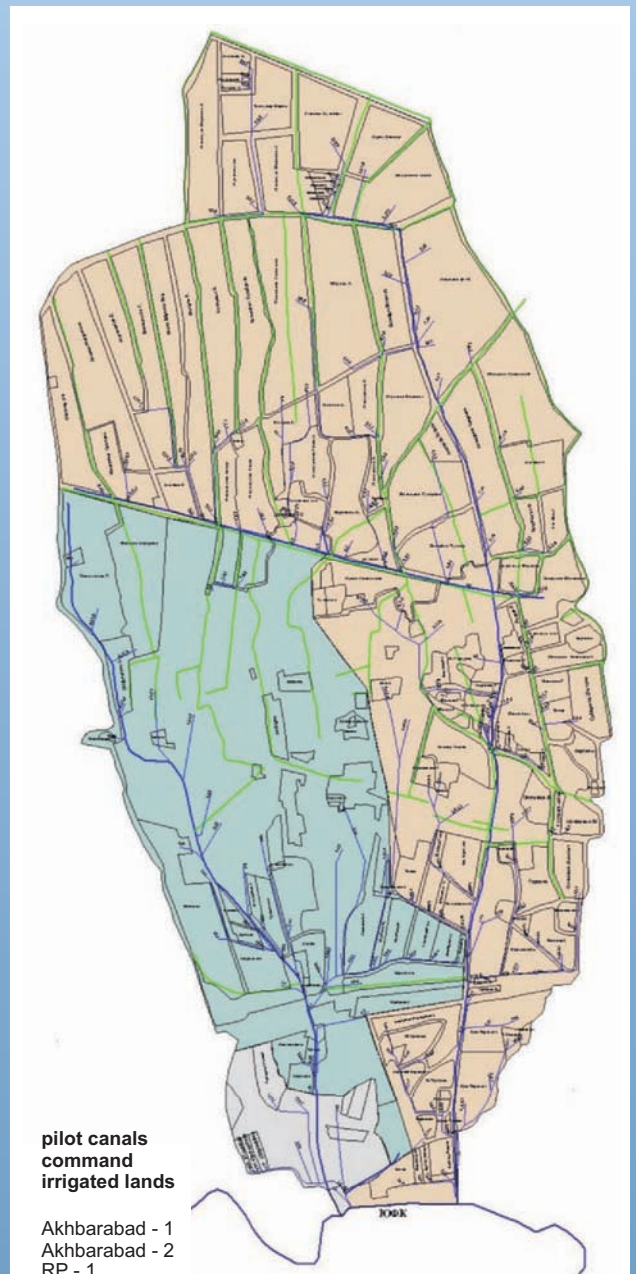
- SFMC – Akbarabad-1, Akbarabad-2 canals and RP-1
- Interfarm collectors – Gandabulak, Kandabulak, Okkuduk.

To improve water use management operation of irrigation network in WUA several WUG were established:

- 3 WUG – specializing in horticulture
- 6 WUG – homestead land within the territory of WUA.

WUG water users elected a community-paid irrigator-in-charge.

Total amount of water abstraction in WUA has been lessening with every passing year. WUA keeps records of all kinds of water use with regard to canals and collectors.



pilot canals  
command  
irrigated lands

Akbarabad - 1  
Akbarabad - 2  
RP - 1

**Map of the “Akbarabad” WUA»**



Introduction of daily water distribution method depending on specific crop enabled managers to organize water delivery from canals and collectors of WUA for each crop. Water was distributed among farmers in accordance with the queue timetable, and the order of delivery had been established in the process of registration of water demand applications submitted water users. . Having established this systematized order of registering applications from water users WUA ensured stable service delivery without rush and haste.

Now WUA members and water management operators know in advance what amounts of water, when and where are to be delivered with regard to every kind crop. Introduction of this procedure enabled WUA water managers to increase operational efficiency factor from 0.51 up to 0.79.

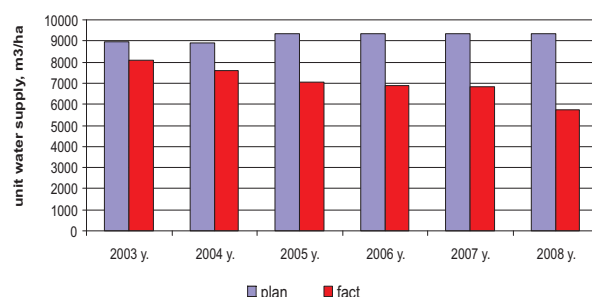
With application of daily water use planning - acuteness of the issue of infringement of end water users' interests ceased to exist. Determination of water delivery queue does not depend on the size of irrigated area and water users' rights are equal regardless of location and area of their fields.

On completion of each crop's vegetation period WUA managers carried out operational analysis water distribution practices according to demand applications submitted by water users and identified reasons for failure to submit an application or requests to get additional amount of water ahead of the timetable.

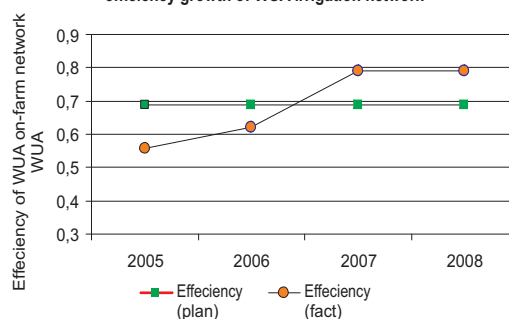
Accomplishment of all above stated arrangements enabled the stake holders to prevent conflicts and disputes between water users and WUA managers and resulted in more effective collection of fees and charges for water services provided by WUA.

**WUA - Water Users Assosiation**  
**WUG - Water Users Group**

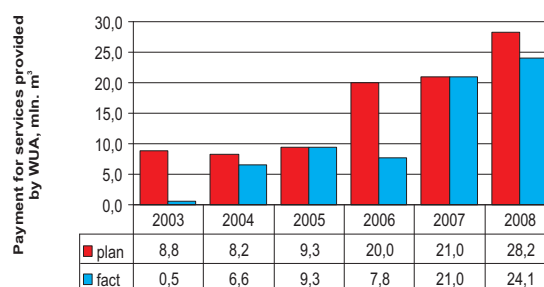
Dynamics of unit water supply to WUAs



Dynamics of operational efficiency growth of WUA irrigation network



Dynamics of collection of payments for water-management services provided by WUA



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