FEDERAL AGENCY OF WATER RESOURCES

RUSSIAN RESEARCH INSTITUTE FOR INTEGRATED WATER MANAGEMENT AND PROTECTION

Program-target Technologies in Water Use Management in the River Basin

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Specific features of the programtarget technology:

- system approach, solution of integrated problems;
- availability of resources at the stage of planning;
- integration of target water/economic and water/protective programs into the programs of the basin social/economic development;
- possibility of stage-by-stage attainment of the goals.



Catchment area: 4680 km², including 92.7 % of the area on the territory of the RF, 7.3 % of the area on the territory of Ukraine.

Discharge volume 50 %, - 148 million m³, 95 % - 54 million m³.

<u>The structure of water intake in</u> <u>the Tuzlov River basin.</u>





Problems of the Tuzlov River basin

- •low carrying capacity of the a channel bed;
- territories inundation due to floods and rains;
 presence of reservoirs;
- old water work facilities at ponds and reservoirs, ecologically dangerous ponds; high risk of hydrodynamic accidents; no owners of a great number of ponds; no maintenance service at ponds and reservoirs; multi-branch water use; pollution supply with waste waters; absence of water-protective zones.















Objectives

water use objectives;
water quality objectives;
provisional regional norms of pollutants discharge with waste waters;
ecological objectives

Program measures Group I

cleaning of the silted portions of the beds;

liquidation of old bridge piers and abutments that narrow the beds.

Program measures

Group II.

- major repairs, reconstruction of water work facilities with unsatisfactory and hazardous level of safety;
- liquidation of the ponds that are out of use, or ponds that have no owners;
- liquidation of the closed water bodies in front of the road embankments;
- repair, reconstruction, and elimination of motor road bridges (crossings), pedestrian bridges (crossings) in order to increase water carrying capacity of the bed in the facilities' reaches.

Program measures Group III. reconstruction and liquidation of ecologically hazardous ponds and storage reservoirs; repair and reconstruction of waste water treatment facilities for industrial enterprises and mines; development of the water qualitative and quantitative indicators monitoring systemp, improvement of discharge forecasts' reliability.

An example of the "Priority Measures" subject layer



THANK YOU FOR YOUR ATTENTION