

WATER RESOURCES IN UKRAINE

9 river basins

7 river basins - transboundary

9175 water body

Significant Water Management Issues

Organic Pollution

Nutrient Pollution

Hazardous Substances Pollution

Hydro morphological Alterations

Climate Change Impacts

62 % water bodies

with significant pressures

40 % water bodies with hydro morphological alterations

NEW ISSUE THE WAR OF THE RUSSIAN FEDERATION AGAINST UKRAINE





Water pollution as a result of military operations

Long-acting chemical pollution

Dangerous and toxic substances, oil products, propellant residues and explosives (*Nitrotoluene, Dinitrotoluene, Trinitrotoluene*)

Monitoring shows:

Exceeding the norm for Hg, Cu, Zn, Mn.

Growth of organic and biogenic pollution.

Exceeding the content of **surfactants** (benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(h,h,i)perylene) by **2-8 times**.

Exceeding the norms for **oil products** and **mercury by 8.5 times** is observed in those places where before the war they were not recorded at all.

Destruction of infrastructure due to war

State Agency of Water Resources of Ukraine

500 infrastructure facilities

753.3 million m3

The volume of water lost due to damage and destruction of dams

154.4 million dollars

the cost of destroyed objects

7.7 billion dollars

The cost of restoration of irrigation systems, drainage and hydrotechnical structures for 10 years



Integration NBs in water management

Significant Water Management Issues + WAR RUSSIA against Ukraine

River Basin Management Plans as a RECOVERY PLAN

NATURE-BASED SOLUTIONS should be **INTEGRATED** into the **PROGRAM OF MEASURES** of river basin management plans

Adaptation and mitigating measures to climate change

Restoration of floodplains and wetlands

Renaturalization of rivers

Restoration of hydromorphological characteristics of river

Restoration of coastal protective strips



What has already been done in Ukraine?

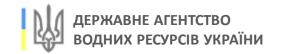


A ROAD MAP for the renaturalization and revitalization of water bodies has been developed



A PROJECT OF METHODICAL RECOMMENDATIONS ON RESTORATION of hydromorphological characteristics of rivers has been developed

PILOT PROJECTS on renaturalization of rivers are being implemented



Mechanisms of implementation of nature-based solutions

Information needs	Trainings and promotion	Legal transformations
Monitoring the impact of war on water resources	Sectoral cooperation in planning the program measures	Legislative regulation of NBs
Water cadastre	Dissemination of NBs practices	Financial instruments
	Study programs	

Proposals for project

Integration of NBs into measures of river basin management plans - a wide educational project for planners and managers of funds and executors of nature-oriented activities