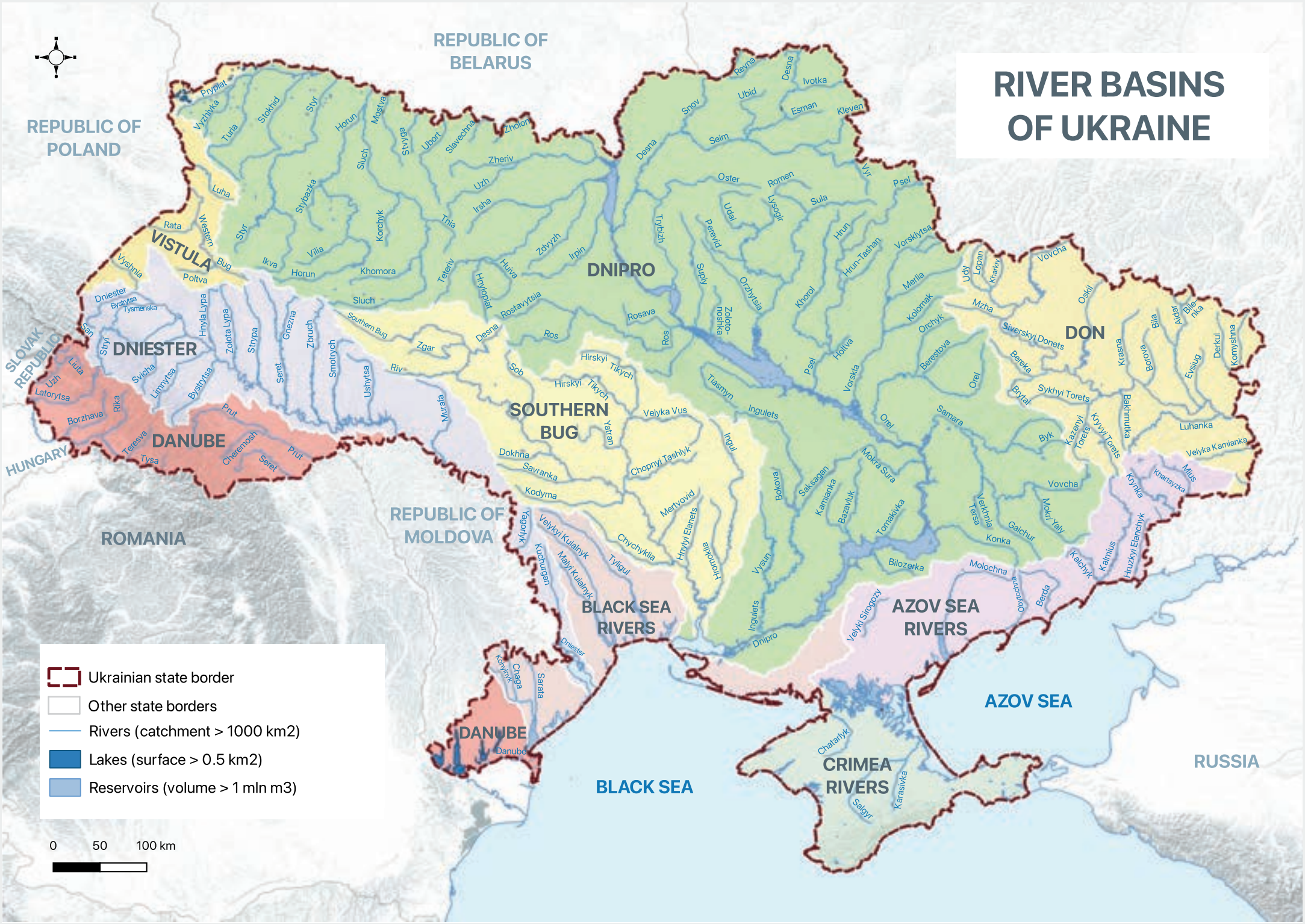
River Basin Management Plan

Dnipro 2025–2030

Saint Volodymyr Hill © Blue Rivers


RIVER BASINS OF UKRAINE
REPUBLIC OF BELARUS
REPUBLIC OF POLAND
SLOVAK REPUBLIC
HUNGARY
ROMANIA
REPUBLIC OF MOLDOVA
RUSSIA
VISTULA
DNIESTER
DANUBE
DNIPRO
SOUTHERN BUG
DON
BLACK SEA RIVERS
AZOV SEA RIVERS
CRIMEA RIVERS
AZOV SEA
BLACK SEA
Ukrainian state border
Other state borders
Rivers (catchment > 1000 km2)
Lakes (surface > 0.5 km2)
Reservoirs (volume > 1 mln m3)
0
50
100 km

RIVER BASIN MANAGEMENT PLAN – DNIPRO

RIVER BASIN GEOGRAPHY

The transboundary Dnipro River Basin is located on the territory of **three countries**: Ukraine, the Republic of Belarus and the Russian Federation.

The basin covers the territory of **19 oblasts of Ukraine** (look at the map). The Dnipro basin has five sub-basins: Upper Dnipro, Middle Dnipro, Lower Dnipro, Prypiat River Sub-basin and Desna River Sub-basin.

3879 surface water bodies (SWBs):

2049 rivers
16 lakes
2 transitional waters
0 coastal waters
1740 HMWBs*
72 AWBs*

26 groundwater bodies (GWBs)

* HMWBs – heavily modified water bodies, AWBs – artificial water bodies

RIVER BASIN MANAGEMENT PLAN – DNIPRO

ECOLOGICAL STATUS AND POTENTIAL

MAIN ELEMENTS:

- **Biological** (composition and abundance) parameters
  - macro invertebrates
  - other aquatic flora
  - phytoplankton
  - fish (not determined)

SUPPORTING ELEMENTS:

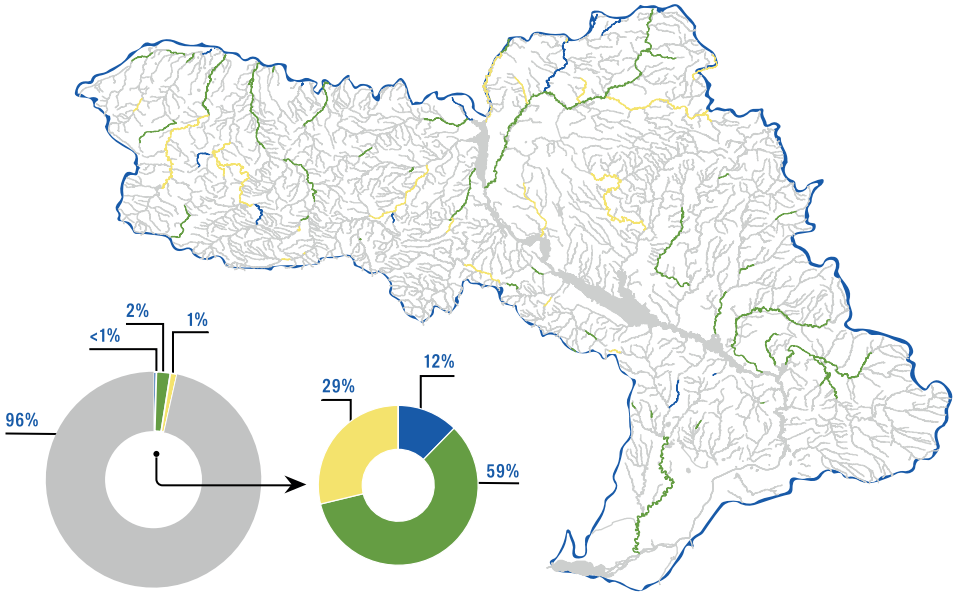
- Chemical and physico-chemical parameters
- Hydromorphology (flows, sediments)
- Basin specific (synthetic and non-synthetic) pollutants

https://cutt.ly/cenginwr

Link to the methodology document

ECOLOGICAL STATUS

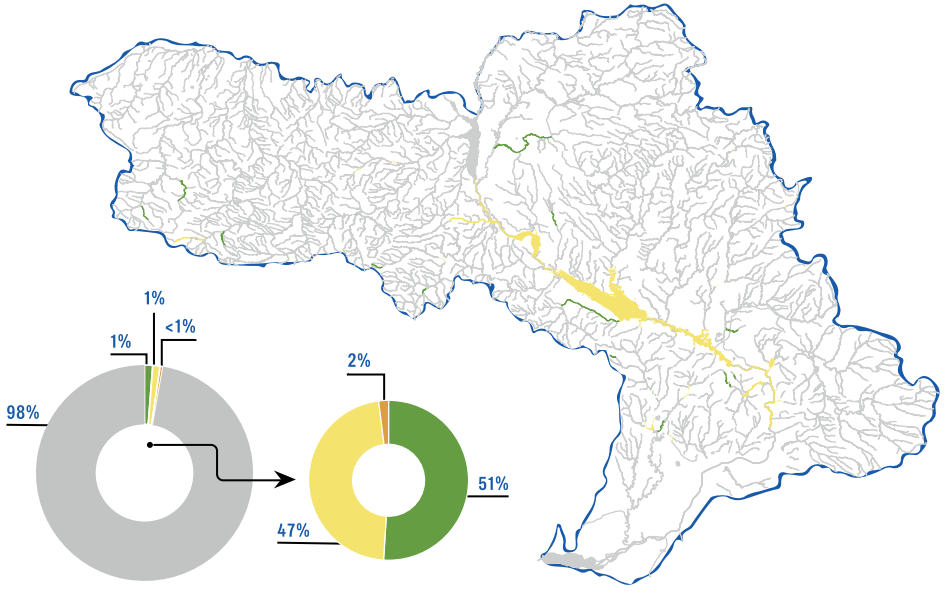
Defined only for the category of natural surface water bodies, **2067 SWBs**



high status | good status | moderate status | no monitoring data

ECOLOGICAL POTENTIAL

Defined only for the categories of heavily modified (HMWB) and artificial (AWB) surface water bodies, **1812 SWBs**



good potential | moderate potential | poor potential | no monitoring data

CHEMICAL STATUS

This is determined for **45 pollutants.**

If the concentration of any of them exceeds the established environmental quality standard for surface water, the status of the SWB is classified as **"failure to achieve good status".**

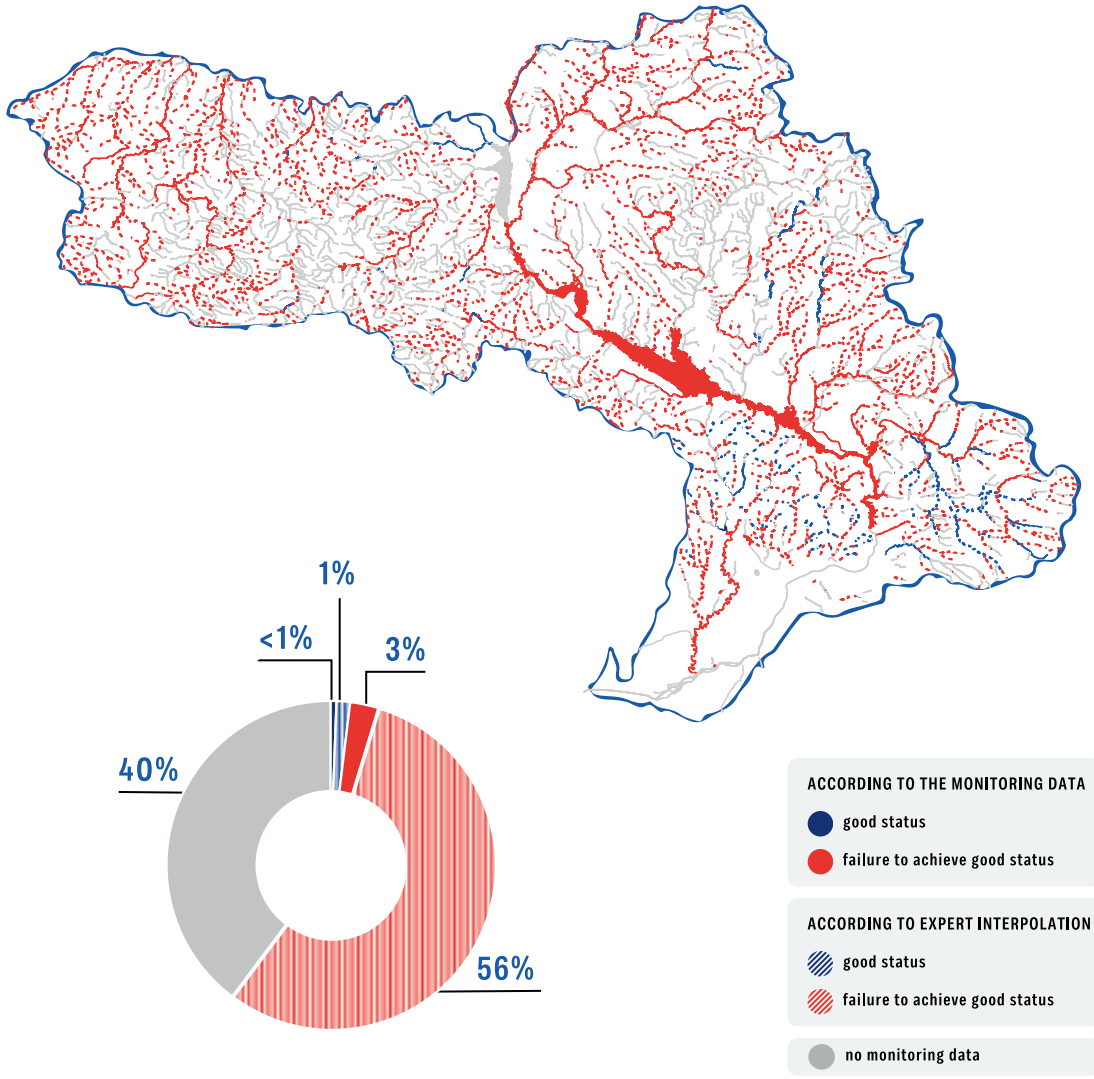
Exceedances of the following pollutants were identified:

cadmium and its compounds, chlorpyrifos (chlorpyrifos-ethyl), lead and its compounds, mercury and its compounds, nickel and its compounds, benzo(a)pyrene, dicofol, cybuthrin, cypermethrin, alachlor, fluoranthene, benzo(b)fluoranthene, aclonifen, benzo(k)fluoranthene, benzo(g,h,i,)perylene, trichloromethane (chloroform).

Chemical monitoring of GWBs is not conducted at present.

https://cutt.ly/EenguUfB

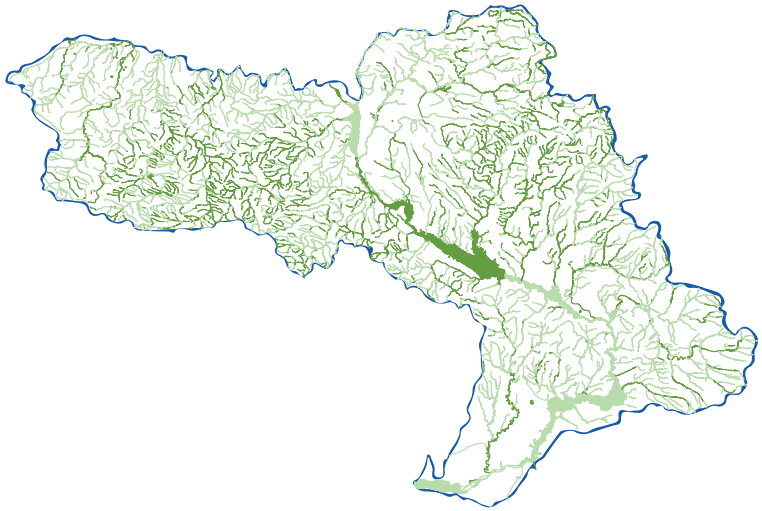
List of pollutants



RIVER BASIN MANAGEMENT PLAN – DNIPRO

ENVIRONMENTAL OBJECTIVES FOR SWBs *

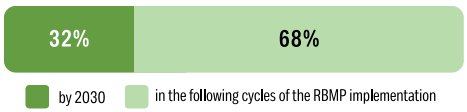
1. **Preventing the deterioration** of all SWBs
2. Achieving / maintaining a **good ecological** and **chemical status** of all natural SWBs (rivers, lakes, transitional and coastal waters)
3. Achieving / maintaining a **good ecological potential** and **chemical status** of heavily modified and artificial SWBs
4. Gradual **reduction** to the complete **absence of hazardous substances**



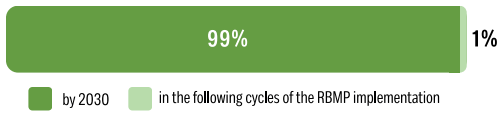
https://cutt.ly/oengy9jl

Link to the methodology document

Timeframe for achieving the good ecological status of SWBs



Timeframe for achieving the good chemical status of SWBs

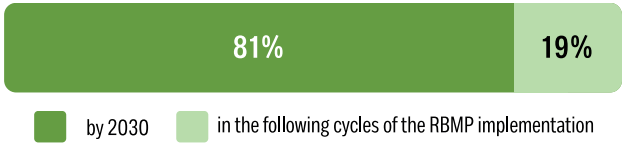


* The map shows the deadlines for achieving a good ecological status of the SWBs

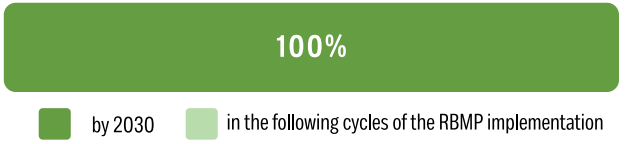
ENVIRONMENTAL OBJECTIVES FOR GWBs

1. **Preventing the deterioration** of all GWBs
2. Achieving / maintaining a **good quantitative** and **chemical status** of all GWBs
3. **Preventing** and **limiting groundwater pollution**

Timeframe for achieving the good chemical status of GWBs



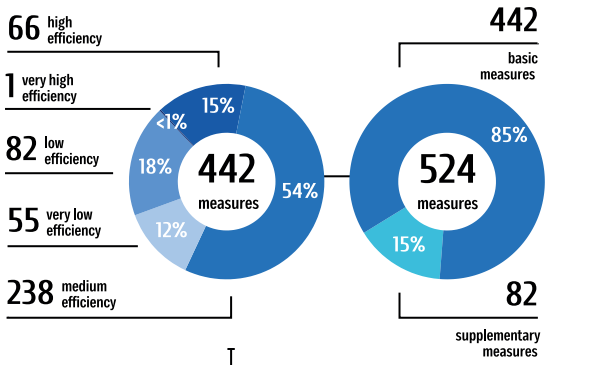
Timeframe for achieving the good quantitative status of GWBs



RIVER BASIN MANAGEMENT PLAN – DNIPRO

I-5

PROGRAMMES OF MEASURES



€3596M*

TOTAL COSTS OF MEASURES

€35*

COSTS OF MEASURES PER INHABITANT PER YEAR

https://cutt.ly/ce0DaACp

A full list of Measures is available in the Dnipro River Basin Management Plan

SANITATION

1. Reconstruction of WWTP** and construction of a technological line for the treatment and utilization of sludge at the Bortnytsia Aeration Station, WWTP in Kyiv
2. Reconstruction of WWTP in the cities of Bila Tserkva, Lubny, Chernihiv, Kryvyi Rih, Nikopol, Kakhovka...
3. Reconstruction of WWTP and SN** in Sumy, Poltava, Fastiv, Pyriatyn, Kremenchuk, Kherson, Shostka, Konotop, Nizhyn, Dnipro, Zaporizhzhia, Zhovti Vody, Synelnykove...
4. Construction of WWTP and SN in Berdychiv, Rivne
5. Construction of WWTP in Zhytomyr, Boryspil, Cherkasy
6. Reconstruction of sewer collectors in Cherkasy
7. Reconstruction/modernization of storm sewerage treatment plants in Zhytomyr, Kremenchuk, Chernihiv, Rivne
8. Reconstruction of WWTP and SN in Bakhmach, Bohuslav, Zolotonosha, Ichnia, Bohodukhiv, Kobeliaky, Khoroshiv, Pokrovske, Orlivka...
9. Construction of WWTP and SN in Krolevets, Putivl, Horodnya, Voronezh, Sosnytsia, Talalaivka, Boromlya, Nova Basan...
10. Construction of WWTP and reconstruction of SN in the villages of Desna, Velyka Novosilka...
11. Reconstruction of WWTP and stormwater drainage networks in Novhorod-Siverskyi, Vuhledar...
12. Reconstruction of WWTP in Korosten, Dobropillya, Bilozerske, Kurakhove, Hirnyk...
13. Reconstruction of WWTP at the State Institution "Selydivska Correctional Colony 82", the Private Joint Stock Company "Enrichment Plant Ukraine"...

TOTAL COSTS OF MEASURES

€3488M or 97%

HYDROMORPHOLOGY

1. Restoration of the storage capacity of the Upper Bila Tserkva Reservoir, the Korsun-Shevchenkivske Reservoir...
2. Revitalization of the Vyr, Staryi Oster, Sumka, Uday, Ichnenka and Tiasmin rivers
3. Improvement of the technical condition of the Lake Vira, the Saksahan, Vovcha and Haichur rivers... and of the old channel of the Oril River...
4. Restoration of dam damages at Karlivka, Staromlynivka reservoirs...
5. Revitalization of the Hnylusha, Byk rivers...

INDUSTRY

1. Construction of a WWTP and SN at the "Zhytomyr Butter Plant"...
2. Construction of a WWTP and reconstruction of the SN at the "Romny Dairy Plant"...
3. Construction of a WWTP at the PJSC "Ichnianskyi Dairy Canning Plant"and the PJSC "Salyvonkivskyi Sugar Plant"
4. Reconstruction of the WWTP at the State Enterprise "Selydivvuhillya", at the State Enterprise "Dobropillya-vuhillya-Vydobuvannya", at the Additional Liability Company "Bilozerska Mine"

AGRICULTURE

1. Establishment of a sanitary protection zone in the area of the water intake for the centralized water supply in the cities of Bohuslav, Myronivka, Korsun-Shevchenkivskyi, Ruzhyn
2. Construction of WWTPs and utilization of agricultural waste

OTHER

1. Plugging Closure of inactive artesian wells at the Kherson community
2. Arrangement of landfills at the villages Velyki Kuskivtsi and Predmirka
3. Restoration of wetlands on the territory of the Ivankivska community (exclusion zone and zone of unconditional (mandatory) resettlement)

VERY HIGH EFFICIENCY

24% of the budget — benefit for 3469M ppl.

HIGH EFFICIENCY

54% of the budget — benefit for 9365K ppl.

MEDIUM EFFICIENCY

18% of the budget — benefit for 3148K ppl.

LOW EFFICIENCY

3% of the budget — benefit for 8457K ppl.

VERY LOW EFFICIENCY

1% of the budget — benefit for 377K ppl.

SUPPLEMENTARY MEASURES

82 measures

benefit for 26M ppl.

1. Geological and economic reassessment of the operational reserves of the GWB
2. Spatial and temporal study of the effects of Russian armed aggression on the status of the Lower Dnipro Sub-basin
3. Implementation of educational activities
4. Educational and information campaigns to raise environmental awareness of the population
5. Development of rules for the operation of reservoirs
6. Separate collection of solid waste, provision of services to the population for its removal and disposal

* according to the NBU rate 1 EUR = 45 UAH, June 2024; calculations of costs of measures were carried out during 2016-2023

** WWTP – waste water treatment plant, SN – sewage network

M – million; K – thousand; ppl. – people