

RIVER BASIN GEOGRAPHY



The basin is located entirely within Ukraine.



The basin is located within **7 oblasts of Ukraine**: Khmelnytskyi, Vinnytsia, Kyiv, Cherkasy, Kirovohrad, Mykolaiv, Odesa.

1090 surface water bodies (SWBs):

375 rivers

Iakes

1 transitional waters

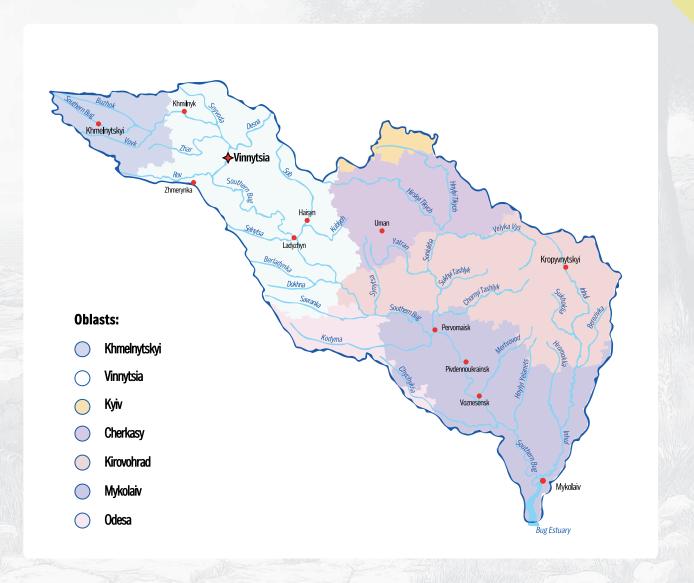
O coastal waters

692 HMWBs*

22 AWBs*

12 groundwater bodies (GWBs)

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



ECOLOGICAL STATUS AND POTENTIAL



MAIN ELEMENTS:

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

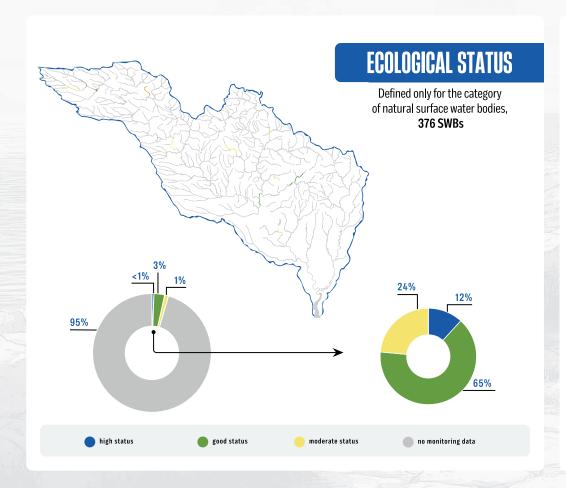


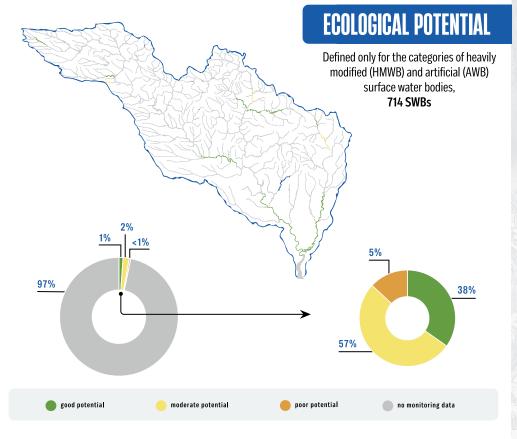
SUPPORTING ELEMENTS:

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



Link to the methodology document





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:

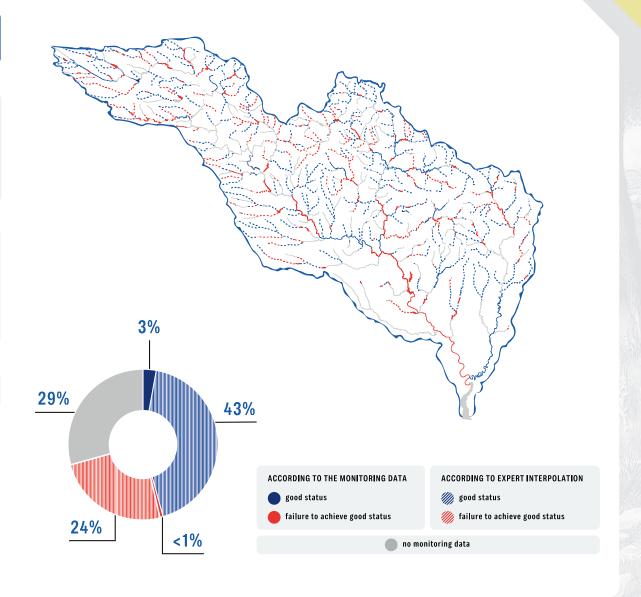
cadmium-chlorpyrifos (chlorpyrifos-ethyl), fluoranthene, lead and its compounds, mercury and its compounds, nickel and its compounds, benzo(a)pyrene, dicofol, cybutrin, cypermethrin.



Chemical monitoring of GWBs is not conducted at present.



List of pollutants



ENVIRONMENTAL OBJECTIVES FOR SWBs

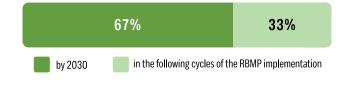
- Preventing the deterioration of all SWBs
- Achieving / maintaining a **good ecological** and **chemical status** of all natural SWBs (rivers, lakes, transitional and coastal waters)
- Achieving / maintaining a **good ecological potential** and **chemical status** of heavily modified and artificial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

Timeframe for achieving the good ecological status of SWBs Timeframe for achieving the good chemical status of SWBs 24% 76% 25% by 2030 in the following cycles of the RBMP implementation

ENVIRONMENTAL OBJECTIVES FOR GWBs

- Preventing the deterioration of all GWBs
- Achieving / maintaining a good quantitative and chemical status of all GWBs
- Preventing and limiting groundwater pollution

Timeframe for achieving the good chemical status of GWBs

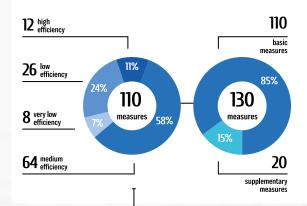


Timeframe for achieving the good quantitative status of GWBs



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

PROGRAMMES OF MEASURES



€642M* TOTAL COSTS OF MEASURES

€ 29*

COSTS OF MEASURES PER INHABITANT PER YEAR



A full list of Measures is available in the Southern Bug River Basin **Management Plan**

Construction of a WWTP** and reconstruction of the SN** at the "Khmelnytskvodokanal" in Khmelnytskvi

- Construction and reconstruction of stormwater drainage networks and treatment facilities in Khmelnytskyi city
- Reconstruction of WWTPs and SNs in the cities of Vinnytsia, Kropyvnytskyi, Pervomaisk, Uman, Mykolaiv, Khmilnyk, Voznesensk, Zhmerynka, Haisyn, Talne
- Reconstruction of WWTPs in Bar City and at the villages of Pariivka, Stara Syniava
- Reconstruction of WWTPs and SNs in the cities of Derazhnia, Pivdennoukrainsk, Haivoron, Bashtanka, Nemvriv, Bobrynets... the towns of Letychiv, Teplyk, Katerynopil, Novhorodka... the villages of Katerynivka, Subotsi, Vilne...
- Construction of WWTPs and SNs in the cities of Tulchyn, Zvenyhorodka, Shpola, Novyi Buh, Lypovets, Blahovishchencke... the towns of Lityn, Kryve, Tyvriv, Kyrnasivka, Savran, Liubashivka, Chechelnyk... the village of Pishchana...
- Construction of a WWTP and reconstruction of the SN in Balta city

TOTAL **COSTS OF MEASURES** €610M

Improvement of water use accounting



Identification of the source of the Southern Bug River near the village of Kholodets and identification of measures for its restoration and conservation

DROMORPHOLOGY

Revitalization, improvement of the ecological status and restoration of river flow of the Diagtvanets. Inhul, Berezivka, Southern Bug (Khmelnytskyi, Yuzhnoukrainskyi communities), Ploska, Kudryanka, Savranka, Kilten, Bobrynets, Vovk, Hirskyi Tikych (in Talne city), Velyka Vysia, Mertyovod rivers

- Reconstruction of emergency hydraulic structures of Polumyanske Reservoir
- Revitalization, improvement of the ecological status and restoration of river flow of the Zhurbynka and Revukha rivers
- Restoration and maintenance of a favorable hydrological regime of the Butska HPP Reservoir in the
- Reconstruction of emergency hydraulic structures of Shkilnyi Pond (Morynska community), pond at the road P-48 in Kupil village

AGRICULTURE

Development of projects of sanitary protection zones for the water supply sources of Balta and Pishchanska communities in Odesa oblast

INDUSTRY

- Construction of a WWTP and SN at the State Enterprise "Ukrvetssanzavod" in Tulchyn city
- Reconstruction of the WWTP and SN at the LLC "Supark" at the village of Sutysky

HIGH EFFICIENCY



69% of the budget



benefit for 2M ppl.

MEDIUM EFFICIENCY



26% of the budget benefit for 636K ppl.

LOW EFFICIENCY



4% of the budget



benefit for 6.4M ppl

VERY LOW EFFICIENC



<1% of the budget

benefit for 17K ppl.

SUPPLEMENTARY MEASURES

measures

benefit for 3.7M ppl.

Development of a methodology for determining and calculating the ecological flow

Inventory of the network of groundwater observation wells

Inventory and subsequent rehabilitation / repairing or preservation of the network



Reassessment of operational groundwater reserves



Development of a Drought Management Plan (DMP) as part of the RBMP



Inventory of barriers that impede the free flow of rivers and prioritization of their removal



Development of recommendations for restoring the forest landscape of river valleys



Public campaigns for waste collection, awareness raising activities

