

WINTER ROAD MAINTENANCE IN THE EASTERN REGION OF UKRAINE

Kharkiv Region Climate

Kharkiv Region features the following key meteorological parameters: the warmest month – July, the coldest – January. The range of average monthly temperatures is 28°C (from +21°C in July to -7°C in January).

Kharkiv Region has moderate continental climate, and its continental nature increases going from Northwest to Southeast.

Annual precipitation ranges from 497 mm to 608 mm. Precipitation is the greatest in Northwestern (Kolomak, Bohodukhiv, Zolochiv) and Northeastern (Velykyi Burluk) districts of the region; the lowest – in the central districts (Balakliia, Pervomaisk, Shevchenkove).



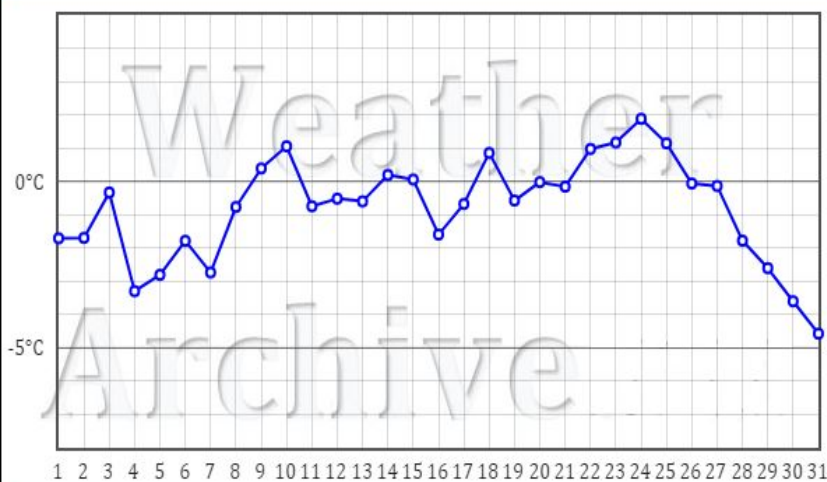
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Crossing Zero

Temperature fluctuations between positive and negative indications, together with precipitation and high ambient humidity lead to road icing.

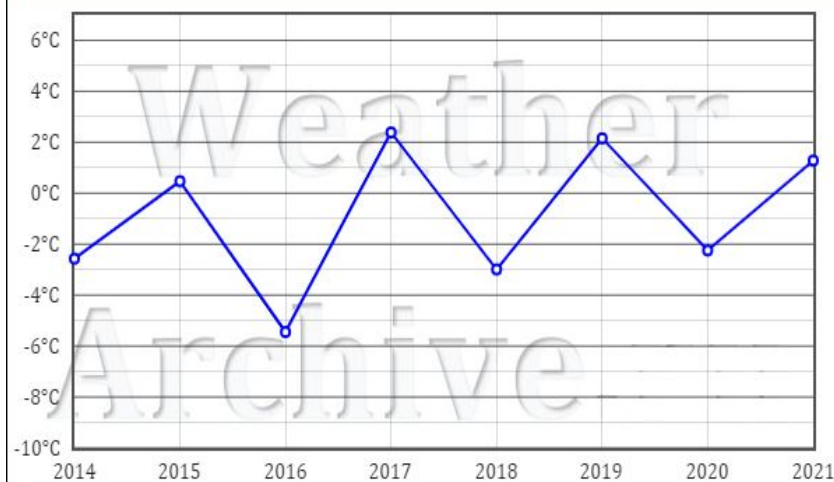
Average daily January 2020 temperature in Kharkiv

Середня температура у грудні у Харкові по днях 2020р.



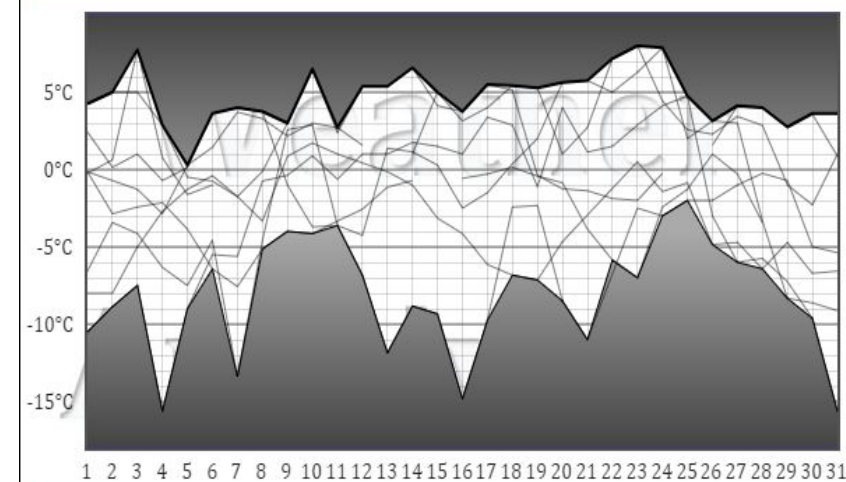
Kharkiv. December temperature, 2014-2021

Харків. Температура у грудні, 2014-2021рр.



December temperature in Kharkiv in various years

Температура у грудні у Харкові в різні роки



* Example of temperature indications for December

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Kharkiv Region management readiness and operation in the fall and winter season:

- Preparation of de-icing agents: friction materials – 61.3 thousand tons; technical salt – 16.7 thousand tons; salt solution – 37.9 thousand m³
- In 2021 one storage hangar was built for technical salt (in 2020 five hangars were built).

There are 11 stationary hangars in total for the region.

- 329 units of machinery prepared to counteract adverse weather conditions; 148 units are currently equipped with GPS trackers.
- The Road Service has a modern dispatcher service that can monitor traffic with the help of 20 video surveillance cameras with built-in meteorological stations, located in all districts throughout the region. In December, additional 5 cameras and meteorological stations were installed. The meteorological stations show ambient and road surface temperature, wind speed, and precipitation intensity.



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Priorities:

- Kharkiv ring road
- M-03 Kyiv-Kharkiv-Dovzhanskyi (towards Poltava, Donetsk)
- M-29 Kharkiv-Krasnohrad-Dnipro and M-18 Kharkiv-Simferopol - Alushta - Yalta (towards Dnipro)
- H-26 Chuhuiv - Milove (towards Luhansk)
- P-46 Kharkiv - Okhtyrka (towards Sumy)
- Routes connecting Kharkiv with district centers

