Lost Winter in Italy

Analysis: Climate change adding more winter days above freezing — affecting snowfall, winter sports, ecosystems, and more

December 2024

KEY FACTS

- **Across Italy, climate change — due primarily to burning oil, coal, and methane gas — is causing a significant increase in winter days above freezing, otherwise called lost winter days.**
- **Analysis of daily minimum temperatures during winter (December, January, February) shows that Italy experienced at least one additional week's worth of days above freezing annually during the past decade (2014-2023) due to human-caused warming.**
- **Of the 14 Italian cities analyzed, four cities saw at least an additional three weeks' worth of winter days above freezing each year, compared to a world without climate change.**
- **Of the 901 global cities analyzed, Turin, Italy ranked as the third city with the most winter days above 0°C added by climate change annually — after Fuji, Japan and Khujand, Tajikistan.**
- **Losing winter's chill affects snowfall, winter sports, water supplies, spring allergies, crops, and more.**

➤ **Download data**

This national summary is part of a broader analysis, in which Climate Central assessed how warming temperatures, attributed to climate change, affected the number of days above freezing (0°C) during winter (December, January, February) in 123 countries across the Northern Hemisphere over this past decade (2014-2023). For locations across the globe, findings show how many lost winter days — days between December-February where minimum temperatures exceeded 0°C — are occurring annually due to climate change. For detailed methodology and summary of findings for 123 countries and 901 cities, see the full report.

RESULTS

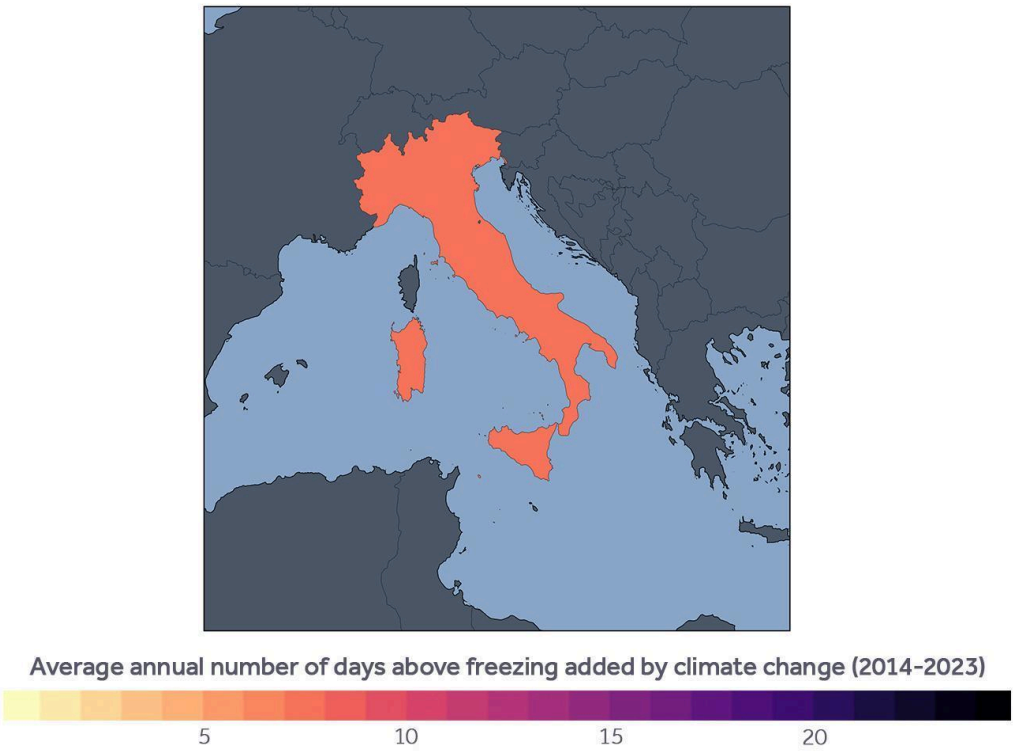

Figure 1. Annual winter days with minimum temperatures above 0°C added by climate change in Italy. Results averaged over a ten-year period (2014-2023).

City	Winter days above 0°C annually	Winter days above 0°C added by climate change annually
Turin	64	30
Verona	74	29
Brescia	78	26
Milan	70	22
Trieste	80	17
Genoa	84	15
Reggio Emilia	65	14
Bologna	70	13
Florence	73	10
Rome	84	6
Venice	89	6
Catania	90	1
Naples	90	0

Table 1. Winter days with minimum temperatures above 0°C added due to climate change, for select cities in Italy included in this analysis. Results represent averages over the past decade (2014-2023).

Climate Central is an independent group of scientists and communicators who research and report the facts about our changing climate and how it affects people's lives. Climate Central is a policy-neutral 501(c)(3) nonprofit.

Major funding provided by the Bezos Earth Fund.