

# City Climate Profile

Chicago, IL | 90-Day Weather Analysis

January 25, 2026

AVERAGE TEMPERATURE

1.4°C

TEMPERATURE RANGE

-18.8° to 19.8°C

TOTAL PRECIPITATION

190.8 mm

PRECIPITATION DAYS

42 days

## Temperature Analysis

Metric	Value	Interpretation
Mean Temperature	1.4°C (34.5°F)	Cold climate
Maximum Recorded	19.8°C (67.6°F)	Peak temperature in period
Minimum Recorded	-18.8°C (-1.8°F)	Lowest temperature in period
Hot Days (>35°C)	0 days	Low heat stress
Frost Days (<0°C)	48 days	Significant frost risk

## Precipitation & Wind

Metric	Value	Interpretation
Total Precipitation	190.8 mm (7.51 in)	90-day cumulative
Rainy Days	42 days	46% of period

Heavy Rain Days (>25mm)	1 days	Low flood risk
Average Wind Speed	20.5 km/h	Daily max average
Peak Wind Speed	43.6 km/h	Maximum recorded

## Degree Day Analysis

Metric	Value	Use Case
Heating Degree Days (HDD)	1509	Energy demand for heating
Cooling Degree Days (CDD)	0	Energy demand for cooling
Dominant Load	Heating	Primary energy use pattern

### Climate Summary for Chicago, IL:

- Climate type: Cold with high precipitation
- Primary energy load: Heating (1509 degree days)
- Extreme weather days: 48 in 90-day period

**Methodology:** Data from Open-Meteo Archive API (ERA5 reanalysis). Degree days use 18°C (65°F) base temperature. HDD = heating demand, CDD = cooling demand. Hot days >35°C, Frost days <0°C, Heavy precipitation >25mm/day.