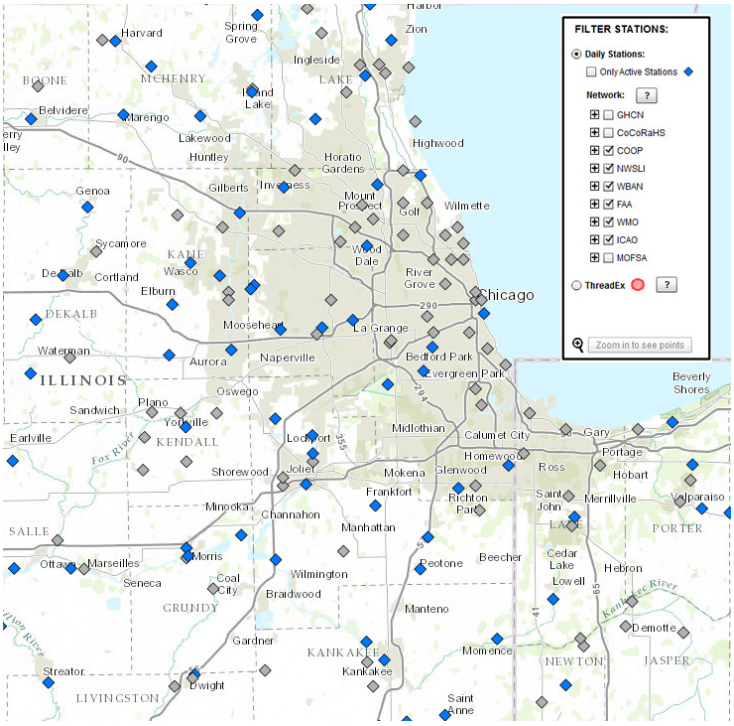
RESILIENT CHICAGO
Climate Planning for the Future

Local Climate Data in Northeastern Illinois

National Weather Service Cooperative Stations

NOAA's National Weather Service leads the Cooperative Observer Program, which has thousands of stations throughout the United States. All of these stations record daily high and low temperature, precipitation, snowfall, and snow depth. In addition, commercial airports have automated stations that report hourly temperature, dew point temperature, wind speed and direction, precipitation, pressure, visibility, and cloud cover. For northeastern Illinois in particular, there are several active stations today, as well as many others that have accessible historical data. A brief table of active stations in Chicagoland is provided below, along with a screenshot of all active and inactive stations in this region. Cooperative station data is available for free online through the Midwestern Regional Climate Center's online climate data system, cli-MATE.

http://mrcc.isws.illinois.edu/CLIMATE/



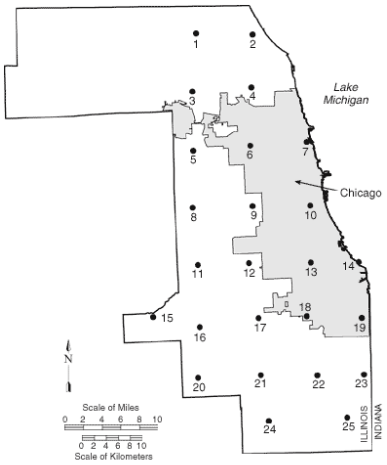
Station Name	Coop Number	Period of Record	Type of data	Type of measurements
Chicago Midway Airport	WBAN 14819/111577	February 1928-present	Daily, Hourly	Temp, precip, snowfall, snow depth
Chicago O'Hare Intl Airport	WBAN 94846/111549	November 1958 – present	Daily, Hourly	Temp, precip, snowfall, snow depth
West Chicago DuPage Airport	WBAN 94878	June 1997-present	Daily, Hourly	Temp, precip, snow depth
Romeoville Lewis Univ. Airport	WBAN 04831/117457	January 1992 – present	Daily, Hourly	Temp, precip, snowfall, snow depth
Chicago Palwaukee Airport	WBAN 04838	July 1996 – present	Daily, Hourly	Temp, precip, snow depth
Lisle-Morton Arboretum	115097	April 2007-present	Daily	Temp, precip, snowfall, snow depth
Chicago Northerly Isle	111550	January 2000-present	Daily	Temp, precip
Glen Ellyn 4S	113490	May 2002 – present	Daily	Precip, snowfall, snow depth
Oak Brook 2W	116281	June 2002 – present	Daily	Temp, precip, snowfall, snow depth
Chicago Midway AP 3	111577	September 1980 – present	Daily	Temp, precip, snowfall, snow depth
Plainfield 3 NE	116849	July 1999 – present	Daily	Precip, snowfall, snow depth
Little Red School House	115110	December 1992 – present	Daily	Temp (since 2010), precip, snowfall, snow depth
Warrenville River	118943	March 2012 – present	Daily	Precip
Barrington 3 SW	110442	November 1962 – present	Daily	Temp, precip, snowfall, snow depth
Chicago Botanical Garden	111497	October 1981 – present	Daily	Temp, precip, snowfall, snow depth

Local Climate Data in Northeastern Illinois, continued

Cook County Precipitation Network

The Cook County Precipitation Network (CCPN) is a 25-site weighing-bucket rain gage array operated year-round by the Illinois State Water Survey for the U.S. Army Corps of Engineers and the U.S. Geological Survey. CCPN provides high-resolution precipitation measurements for Cook County, and data is available for download going back to 1989. Archived daily data and preliminary real-time 10-minute and hourly data are available for download through the CCPN website. Archived quality-controlled 10-minute and hourly data are available through the Midwestern Regional Climate Center (http://mrcc.isws.illinois.edu).

http://www.isws.illinois.edu/atmos/ccprecipnet/



The Cook County 25-site raingage network used during Water Years 1990 to 2001.

Illinois Climate Network

The Illinois Climate Network (ICN) is a 19-station array of automated weather stations scattered across Illinois, operated and maintained by the Illinois State Water Survey. In northeastern Illinois, there are stations located in St. Charles and DeKalb. ICN provides enhanced temporal weather observations on numerous weather and climate variables including temperature, precipitation, relative humidity, barometric pressure, wind speed, wind direction, and solar radiation. Other variables measured include potential evapotranspiration, dew point temperature, soil temperature, and soil moisture. ICN data can be downloaded from the ICN website.

http://www.isws.illinois.edu/warm/datatype.asp

Community Collaborative Rain, Hail & Snow Network

The Community Collaborative Rain, Hail & Snow Network (CoCoRaHS) is a unique, non-profit, community-based network of volunteers of all ages and backgrounds working together to measure and map precipitation (rain, hail, and snow). By using low-cost measurement tools, stressing training and education, and utilizing an interactive website, their aim is to provide the highest quality data for natural resource, education, and research applications. CoCoRaHS is now in all fifty states, and has several volunteer stations across the Chicago metropolitan area. Data is available for free on the CoCoRaHS website for download, or also through the MRCC's climate data system, cli-MATE (http://mrcc.isws.illinois.edu/CLIMATE).

http://www.cocorahs.org/