

DATA & TOOLS

Compiled by the Calumet Stormwater Collaborative

The Calumet Stormwater Collaborative repository data and tools section provides accessible stormwater resources that can be useful for data analysis, mapping, and to design and calculate the benefits of stormwater BMPs. Hyperlinked names take you to each resource.

Data and Imagery		
Name	Organization	Description
<u>Census data</u>	U.S. Census Bureau	Online catalog of census data.
<u>CMAP Data Hub</u>	Chicago Metropolitan Agency for Planning	Online catalog of data and information relevant to comprehensive planning in the seven-county metropolitan Chicago region. Datasets include urban tree canopy, land use, and green infrastructure vision, among others.
<u>CMAP Imagery Explorer: Historic Aerials (1970, 1995)</u>	Chicago Metropolitan Agency for Planning	Interactive web app to browse and download scanned aerial photography of the Chicago region from 1970 and 1995.
<u>Collaborative Stormwater Viewer</u>	Calumet Stormwater Collaborative in partnership with CH2M Hill and South Suburban Mayors and Managers Association	Online mapping tool with several layers that are helpful for stormwater planning. It aggregates 25 different datasets at a single location and makes it readily available for anyone to access for free.
<u>Combined Sewer Overflow Waterway System map</u>	Metropolitan Water Reclamation District	Online map to view combined sewer overflow (CSO) events in the reaches of the Chicago Area Waterway System (CAWS).
<u>Cook County Data Hub</u>	Cook County	Online catalog of data relevant to Cook County.
<u>HistoricAerials.com</u>	NETR Online	Online catalog of historical aerial imagery and topographical maps. Imagery and maps can be purchased or viewed through an online viewer.
<u>Hydrologic Atlases</u>	U.S. Geological Survey in partnership with the Northeastern Illinois Planning Commission (NIPC)	Maps providing hydrologic data on flood depth and frequency within historic floodplain areas for northeastern Illinois. The maps were prepared in the 1960s and the data dates back to the 1940s and 1950s.
<u>Illinois Flood Map Database</u>	Illinois State Water Survey	Online catalog of preliminary and final digital Flood Insurance Rate Maps (dFIRMs), Discovery mapping products, and other relevant flood-related maps.
<u>Illinois Geospatial Data Clearinghouse</u>	Illinois State Geological Survey	Online catalog of data for the State of Illinois, including elevation, geology, hydrology, landcover, historical imagery, among other datasets.
<u>Mitigation Action Tracker</u>	Federal Emergency Management Agency	National web-based interactive mapping tool developed by FEMA to collect and track local hazard mitigation actions that have been proposed, fully funded, or completed. The Tracker is intended to help Risk MAP providers, mitigation planners, and stakeholders track flood mitigation actions to identify opportunities for implementation.
<u>Soil Survey of Cook County, Illinois</u>	U.S. Department of Agriculture National Resources Conservation Service	Soil survey of Cook County that includes detailed soil maps, soil series descriptions, information on the use and management of the soils, and soil properties. Results have been incorporated into the USDA NRCS Web Soil Survey application.
<u>SSMMA Open Data Portal</u>	South Suburban Mayors and Managers	Online catalog of public data relevant to SSMMA's region. Data can be previewed in a map and downloaded as a spreadsheet, shapefile, KML, or linked via Application Programming Interface (API).
<u>USGS Maps and GIS Data</u>	U.S. Geological Survey	Online catalog of public data on surface water, groundwater, water quality, and other themes.
<u>Web Soil Survey</u>	U.S. Department of Agriculture National Resources Conservation Service	Interactive soil mapping tool that allows users to explore the National Resources Conservation Service (NRCS) soil database, generate soil reports and maps, and download the spatial data associated with an area of interest.

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<u>Wetlands Mapper</u>	National Wetlands Inventory (NWI)	Interactive wetland mapping tool that allows the user to explore the National Wetlands Inventory database and download data.

Design Tools and Benefits Calculators		
Name	Organization	Description
<u>Green Values Stormwater Management Calculator</u>	Center for Neighborhood Technology	Easy-to-use calculator to quantify the difference between utilizing gray infrastructure and green infrastructure in terms of the life cycle costs, co-benefits, and peak discharge reduction. This calculator can help make the case for incorporating green infrastructure into site design.
<u>Integrated Valuation of Ecosystem Services and Tradeoffs (InVEST) v3.3.3</u>	The Natural Capital Project	Tool to map and value ecosystem services of natural systems.
<u>i-TREE Streets</u>	U.S. Forest Service	Free software to conduct and analyze a street tree inventory, including quantifying the environmental benefits of trees such as stormwater management.
<u>Landscape Green Infrastructure Design Model and Participatory Modeling Protocol</u>	University of Illinois at Chicago	The landscape green infrastructure design model (L-GrID) is a simulation model to design and assess different green infrastructure scenarios to address urban flooding. Participatory modeling protocol was developed to help communities collectively design, test, and resolve tradeoffs of different green infrastructure solutions. Contact Dr. Moira Zellner (mzellner@uic.edu) for more information.
<u>National Stormwater Calculator</u>	U.S. Environmental Protection Agency	Free software used to estimate runoff volumes for a specific site and assess the level to which green infrastructure practices can be utilized to meet a stormwater retention goal.
<u>WMO Model Templates</u>	Metropolitan Water Reclamation District	WMO-compliant templates for HEC-HMS, TR-20, and Win TR-20 models.