

Data Checklist

Economics of Green Infrastructure

ASSESSMENT STEPS

This matrix provides a list of data used to conduct two pilot projects in the Great Lakes assessing the costs and benefits of using green infrastructure to reduce flooding impacts. These data are the best available from national, state, and municipal data sources and models. They are suitable for watershed-scale studies. Work with your local GIS analyst to discuss the data available for your assessment.

Learn more about each assessment step in the "Guide for Assessing Green Infrastructure Costs and Benefits for Flood Reduction. www.coast.noaa.gov/pubs/gi-cost-benefit.pdf



STEP 1: Define the Flooding Problem



STEP 2: **Assess Flooding** Scenarios without Infrastructure



STEP 3: **Identify How a** Flood Reduction Target Can Be Met with Green Infrastructure



STEP 4: **Assess Flooding** Scenarios with Green Infrastructure



Estimate Benefits and Costs



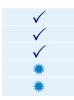
STEP 6: **Identify** and Communicate the Desired Green Infrastructure Strategy

Land Data

Land Use, Current Land Use, Future Land Cover, Current Land Cover, Historical Digital Elevation Models (DEMs)













Weather and Climate Data

Precipitation, Current Climate, Current Precipitation, Future Climate, Future







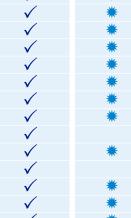


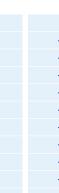


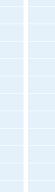
Hydrology Data

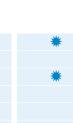
Historic Flood Locations Watershed Delineations Streams Stream Points **FEMA Regulatory Maps** FEMA Digital Flood Insurance Maps (DFIRM) FEMA Flood Insurance Studies (FIS) **USGS** Regression Equations Basin Storage % Basin Development Factor Main Channel Slope Rural Peak Discharge **Inundation Grids** Flow Direction Grids

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Social and Economic Data

Flow Accumulation Grids

Social Vulnerability Index Bureau of Labor Statistics Employment













Infrastructure Data

Land Parcel / Assessor Database Stormwater Utilities **Building Structure** Green Infrastructure Sites, Current Green Infrastructure Sites, Future Impervious Surface %







