



NExUS Ongoing Projects and Activities Wed May 23 04:38:07 EDT 2018

Name	Climate Information for Water Harvesting and Re-use Strategies in Philadelphia
Description	Climate change is expected to alter urban climatological conditions throughout the CCRUN (Consortium for Climate Risk in the Urban Northeast) study area (Massachusetts, Rhode Island, Connecticut, New York, New Jersey, and Pennsylvania). This research effort investigates the impact of changes to precipitation and temperature on the hydrology of urban spaces and the terrestrial and aquatic ecosystems connected to them directly or indirectly through infrastructure. Specifically, we are investigating relationships between climatological conditions and water/wastewater/stormwater infrastructure, with a focus on a) impacts of climate conditions on water and wastewater treatment plant performance, b) how varying levels of climatically impacted infrastructure performance relate to various indicators of public health and c) the use of various green infrastructure (GI) strategies as a climate change adaptation strategy (through its role in reducing the energy and GHG emissions associated with less stormwater and enhanced urban evapotranspiration).
Category	- Climate-change Specific Projects - Research
Sector	- Public Health and Safety - Infrastructure
Focus Area	- Climate Impacts on Water Resources
Region	- Regional Or State
Status	- Ongoing
Timelines	Date of Completion, September 2015
Lead Agencies	NOAA Regional Integrated Sciences and Assessments
Contacts	Franco Montalto, Drexel University, fam26@drexel.edu