GREEN INFRASTRUCTURE

C. Eliana Brown





Learning Objectives

The problem Understand stormwater runoff issues in Illinois: flooding and water quality.

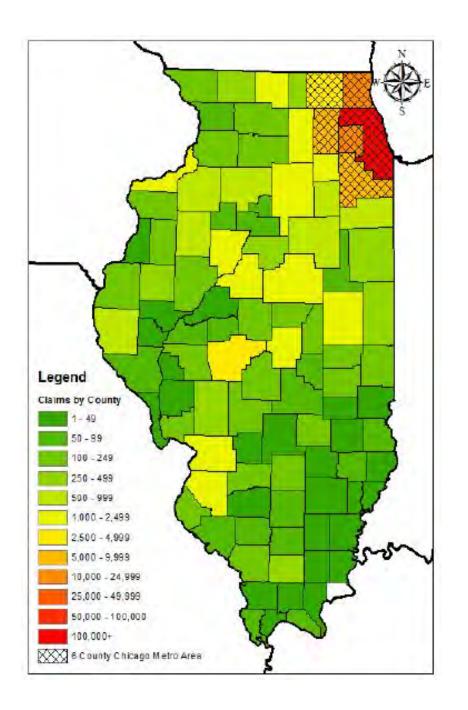
The solutions Become familiar with terms "grey" and "green" stormwater infrastructure and understand scale.

What are we doing? Learn about the Illinois NLRS Urban Stormwater Working Group: GI inventory and opportunities to get involved in this state-wide effort. Resources for Outreach.







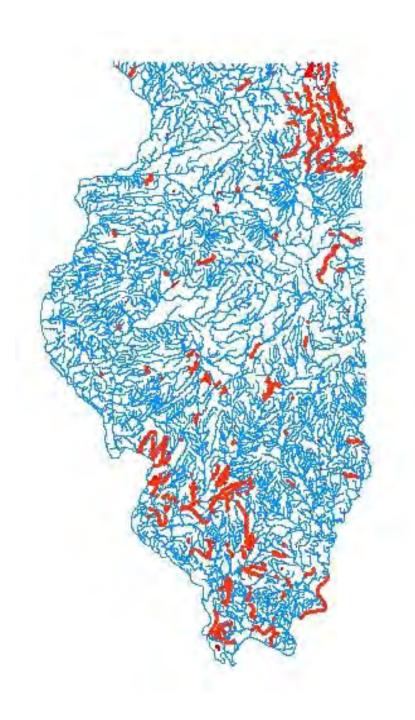


Flooding happens all over the state

(Report for Illinois Flooding Awareness Act, IDNR 2015)







1,262 miles of streams 40,037 acres of lakes impaired due to stormwater runoff

(2014 Illinois Integrated Water Quality Report, Illinois EPA)



Grey Infrastructure

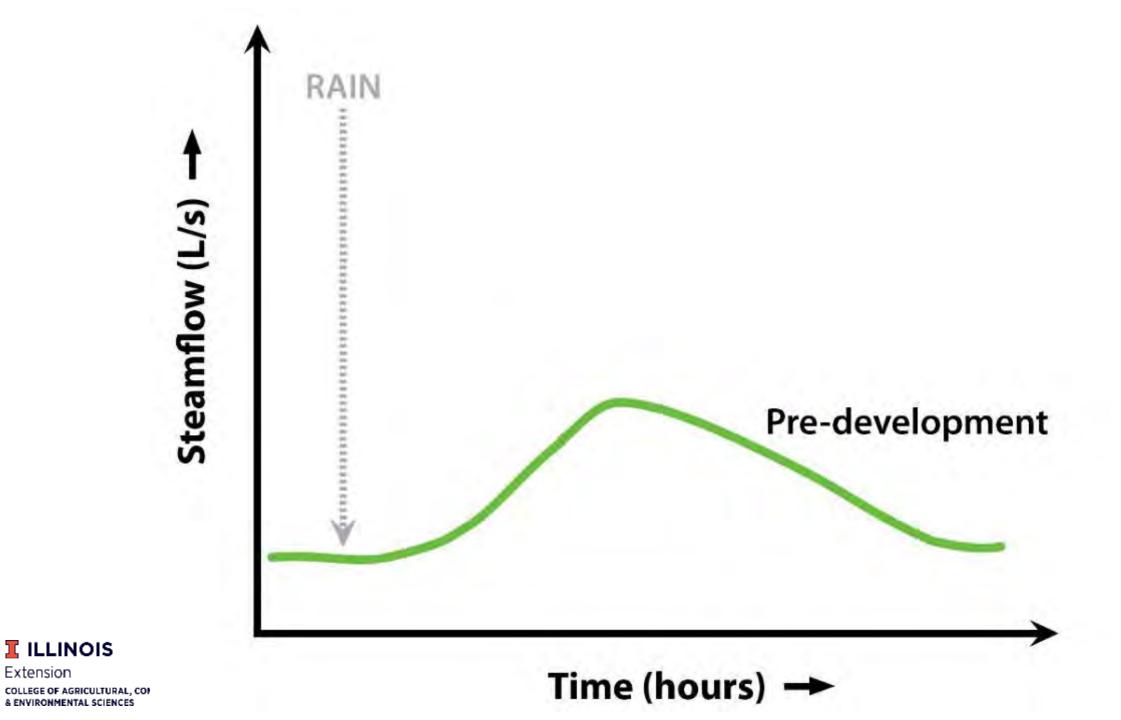
Curbs and gutters deliver water away from the road **swiftly**.

Inlets collect stormwater and direct it through pipes to the receiving stream.

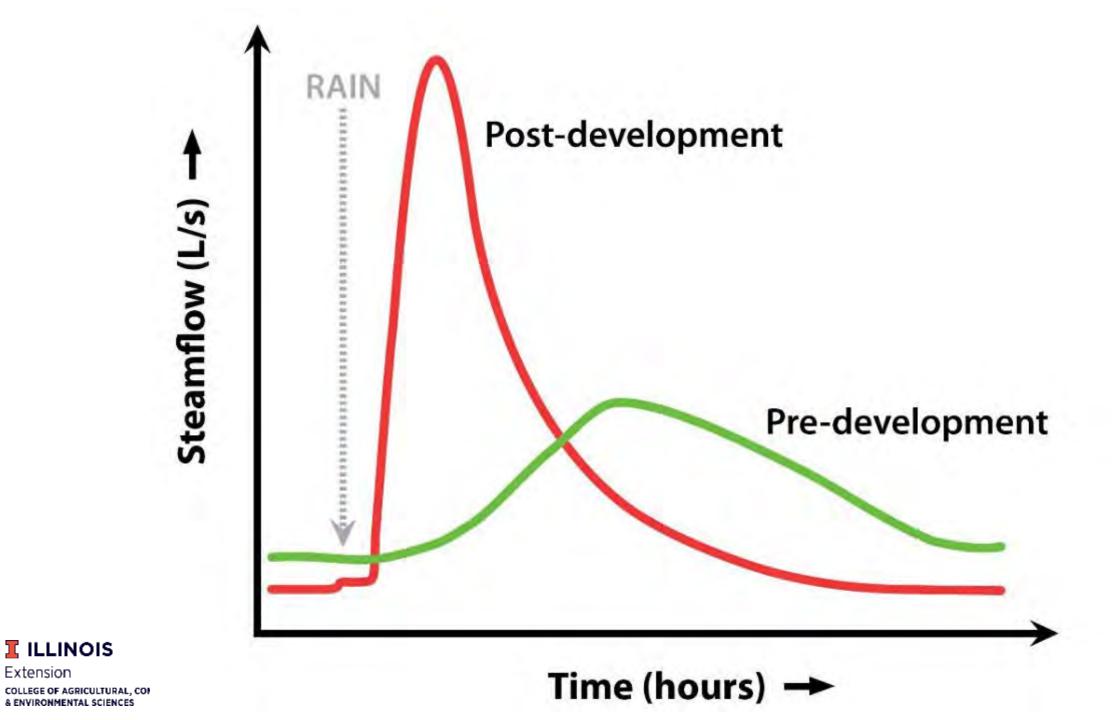








Extension



Extension





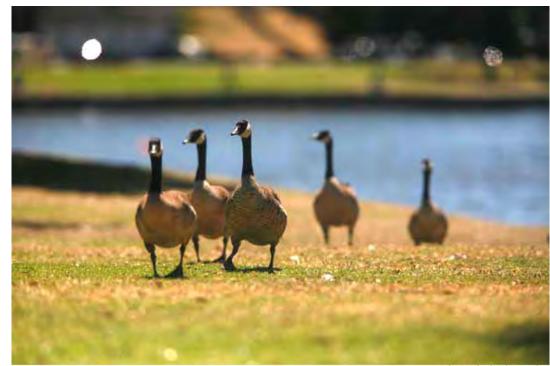
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Chronicle / Mike Kepka



Green (Stormwater) Infrastructure













BIORETENSION CELLS: RAIN GARDENS + BIOSWALES

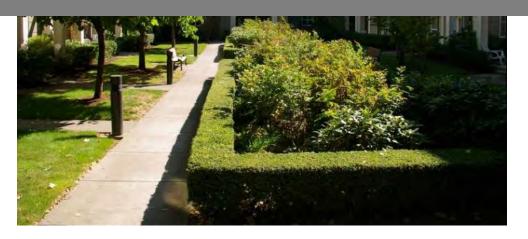








MORE EXAMPLES

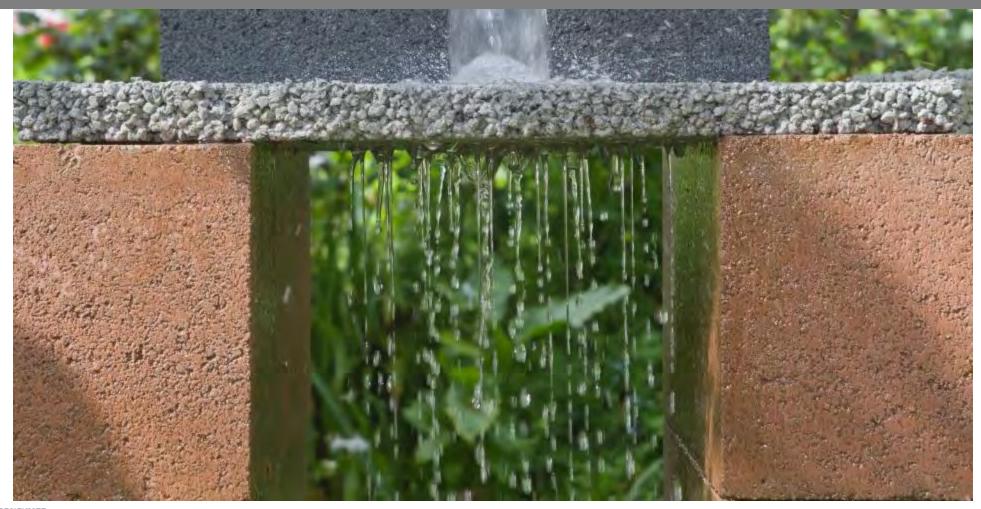








PERMEABLE PAVEMENT









GREEN AND BLUE ROOFS













STORMWATER WETLANDS





Combining practices



Combining practices

THE PRESERVE AT OAK MEADOWS



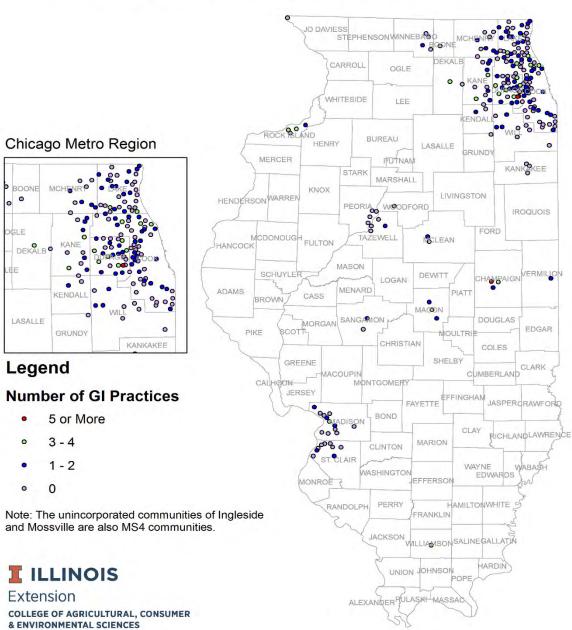




https://il-asla.org/award/the-preserve-at-oak-meadows/

How much green infrastructure do we have in Illinois?

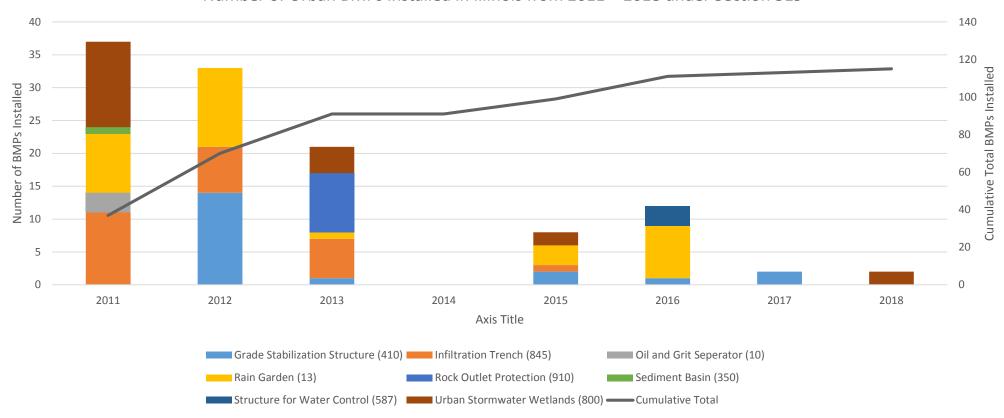
Number of GI Practices in Illinois MS4 Communities



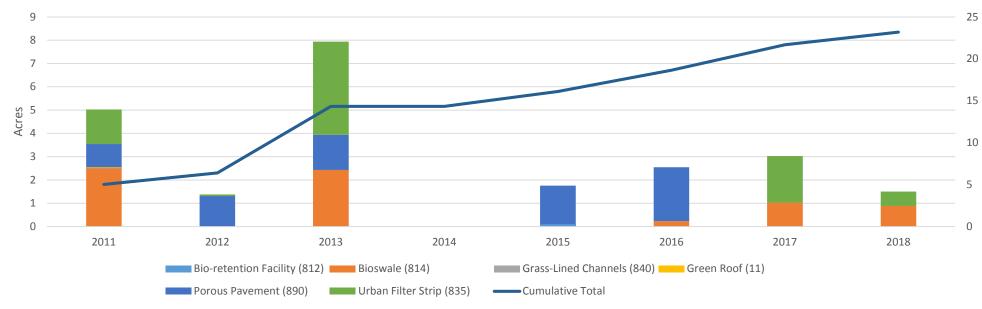


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Number of Urban BMPs installed in Illinois from 2011 – 2018 under Section 319



Acres treated by Urban BMPs in Illinois from 2011 – 2018 from Section 319 funded projects





MWRDGC Space to Grow Program



NRLS Urban Stormwater Working Group Green infrastructure Inventory

Location
Practice Kind
Size
Acres treated
Date installed



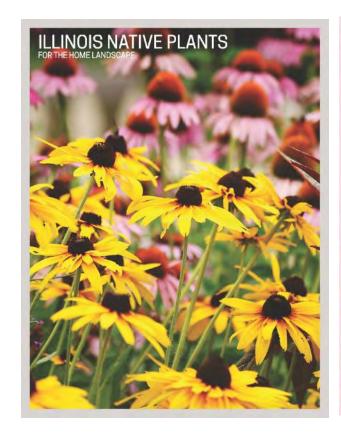
Resources



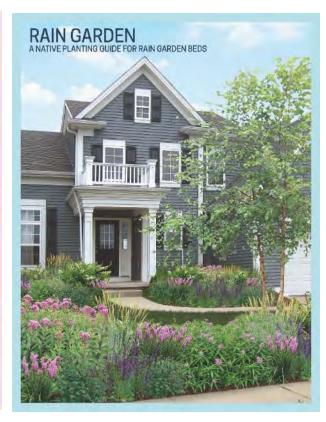




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https://iiseagrant.org/resources/publications-products/







https://go.illinois.edu/stormwaterhome

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