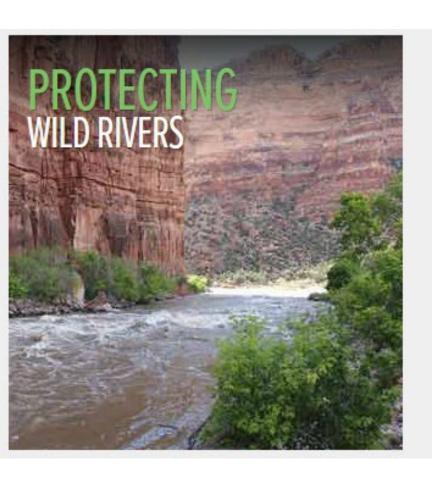
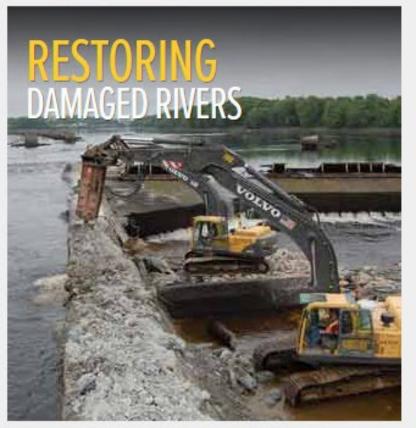




American Rivers
RIVERS CONNECT US®

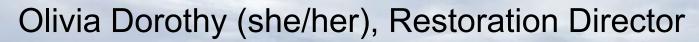
AMERICAN RIVERS











East Moline, IL - Homelands of the Kickapoo, Peoria, Sauk and Meskwaki, Potawatomi, Myaamia, Ho-Chunk, Očhéthi Šakówin tribal nations



WHAT IS A FLOODPLAIN?

- Land & Hazard Planning = area of land adjacent to a river with a 1% annual chance of flooding
- Hydrology = Low-lying lands likely to be influenced by moving water

→ Ecology = Transitional habitat located between the aquatic and terrestrial areas

For the purposes of this study = The floodplain is the low-lying land that may be adjacent to a river that becomes covered in water during flood



Just like rivers, floodplains can be big or small. The same hydraulic and geologic forces apply to rivers, creeks, streams, ditches, and storm sewers.







ILLINOIS FLOODPLAINS WORK PROGRAM FEASIBILITY STUDY

"How can we do more multi-benefit floodplain development projects in Illinois?"

Why do we need a new floodplain development model?

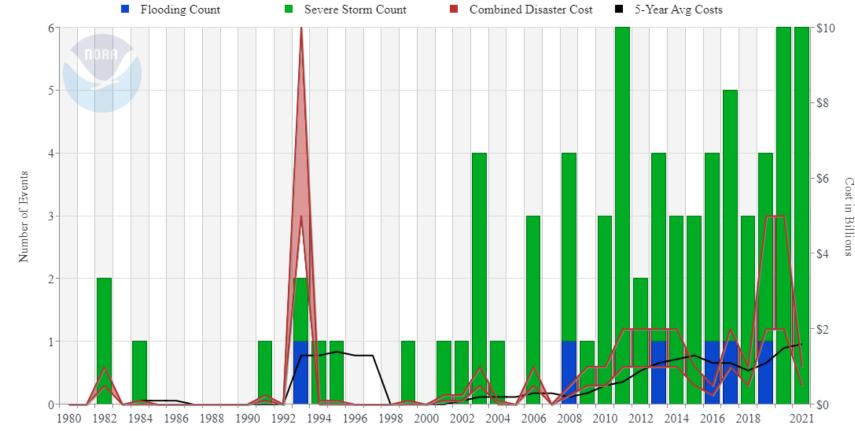
What is a "multi-benefit floodplain development project"?

What do we need to do in Illinois to get these projects on the ground?





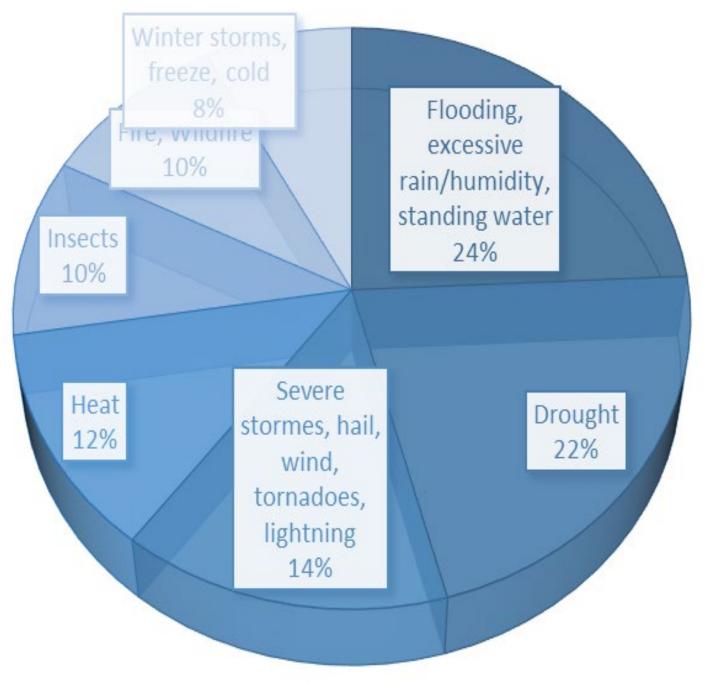
Illinois Billion-Dollar Disaster Events 1980-2021 (CPI-Adjusted)



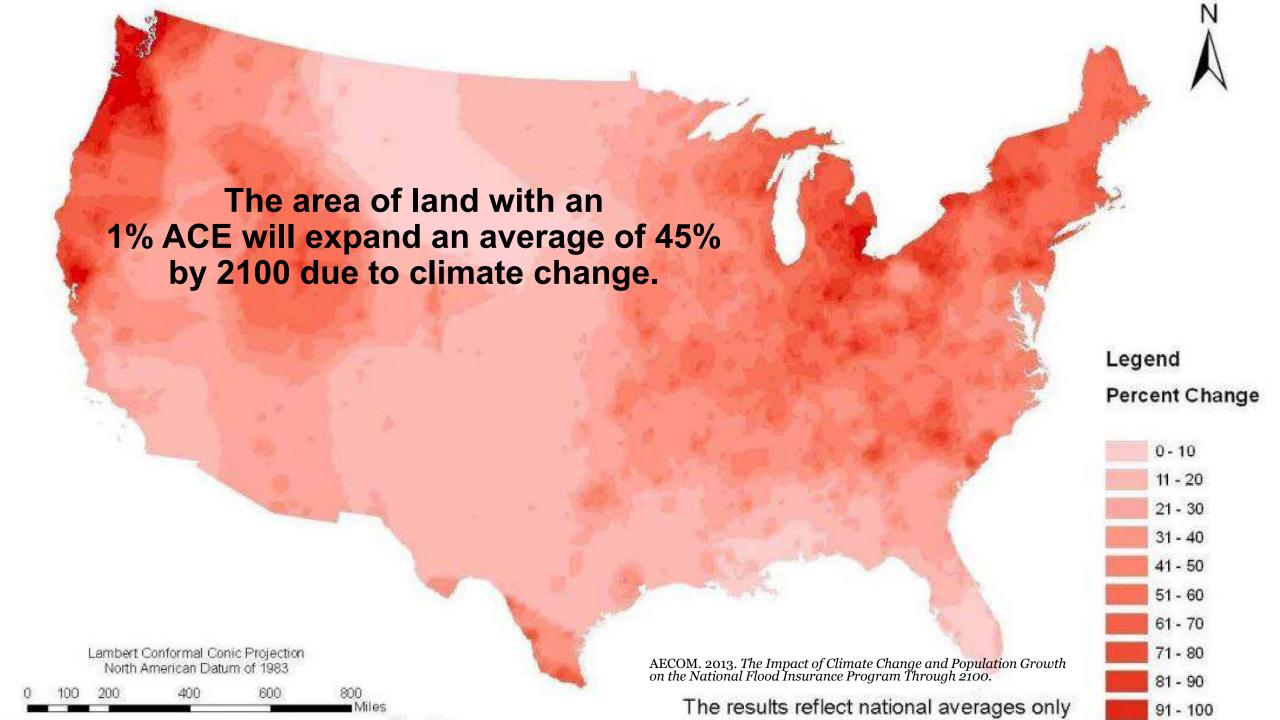
Updated: January 10, 2022

Ninety percent of all natural disasters in the United States involve flooding (FEMA).

Flood risk reduction projects are not keeping pace as damages continue to escalate (NOAA).

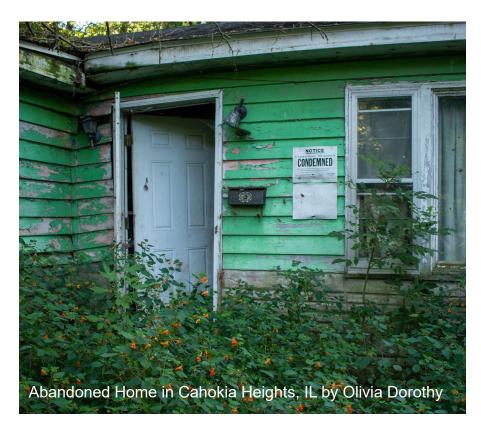


Flooding is the most prevalent and widespread agricultural disaster in the Midwest. 24% of all county disasters declared by the **USDA** between 2012 and 2021 included flood or excessive water damages.



AS A RESULT,

domestic refugees and open space



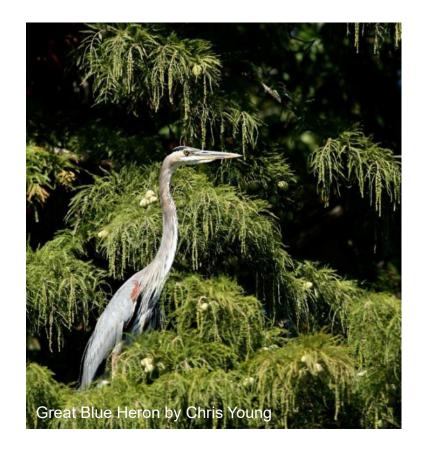




Floodplains are places with long-standing public safety, racial equity, and biodiversity issues that need to be addressed through integrated projects.

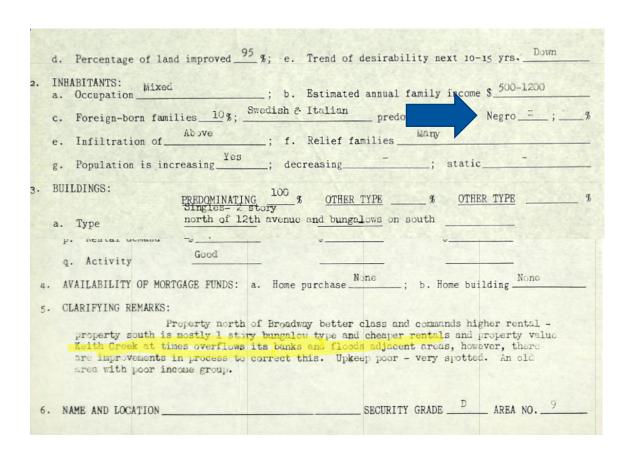


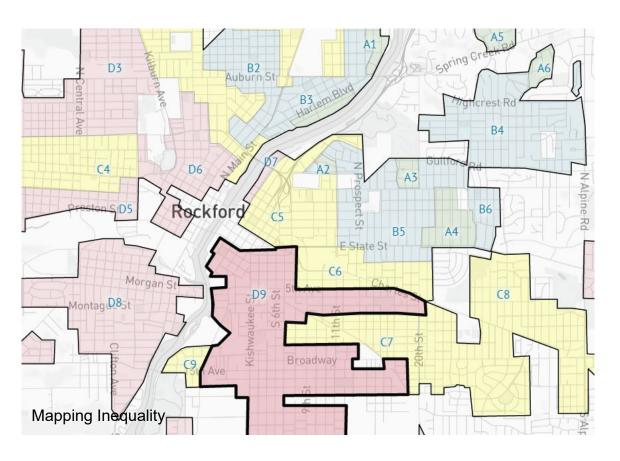






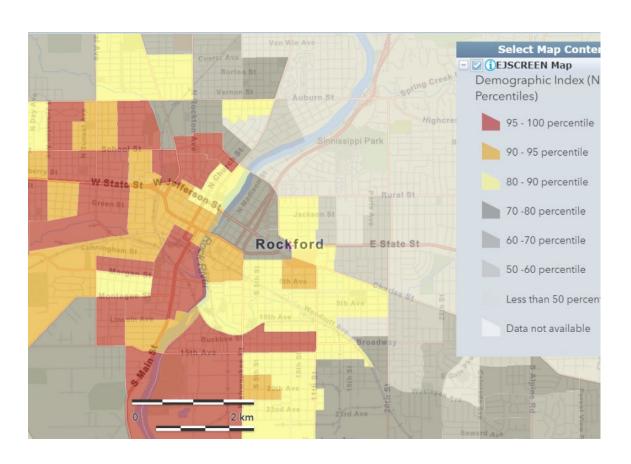
Floodplains are often environmental justice areas due to redlining that forced Black families to live in floodplains and other places with environmental hazards.

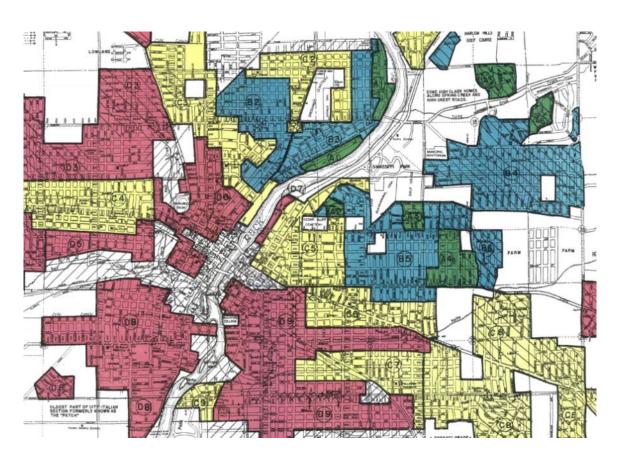






Ongoing racist lending practices, segregation policies and other factors keep communities of color and low-wealth in these high hazard areas.







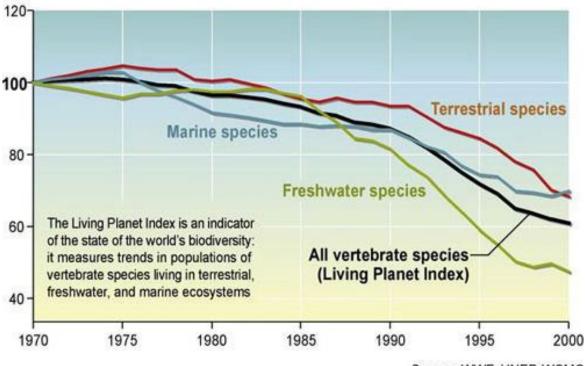
Floodplains are among the most biodiverse and productive ecosystems in the world.

Though they represent less than 2% of Earth's terrestrial land surface, "floodplains provide approximately 25% of all terrestrial ecosystem service benefits."



"The most vulnerable habitats of all, with the highest extinction rate per unit area, are rivers, streams, and lakes in both tropical and temperate regions." – E.O. Wilson

Population Index = 100 in 1970



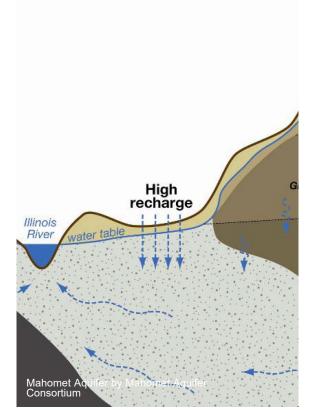
Source: WWF, UNEP-WCMC



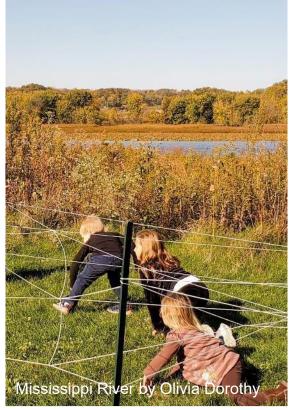


"Multi-benefit floodplain development" or "integrated floodplain management" provides a framework for getting these projects on the ground.













OTHER STATES ARE USING FRAMEWORK

- Washington Floodplains by Design is a public-private partnership approach to create projects that reduce flood risk <u>and</u> improve aquatic habitat.
- California Department of Water Resources Offices of Multi-Benefit Initiatives coordinates inter-agency projects to meet multiple goals in floodplains.
- Vermont Rivers Program Functioning Floodplains Initiative offers financing to projects that improve water quality, flood residence and ecological integrity.
- New York Rising Communities Reconstruction Program offers funding for planning and implementation of climate resilience projects.

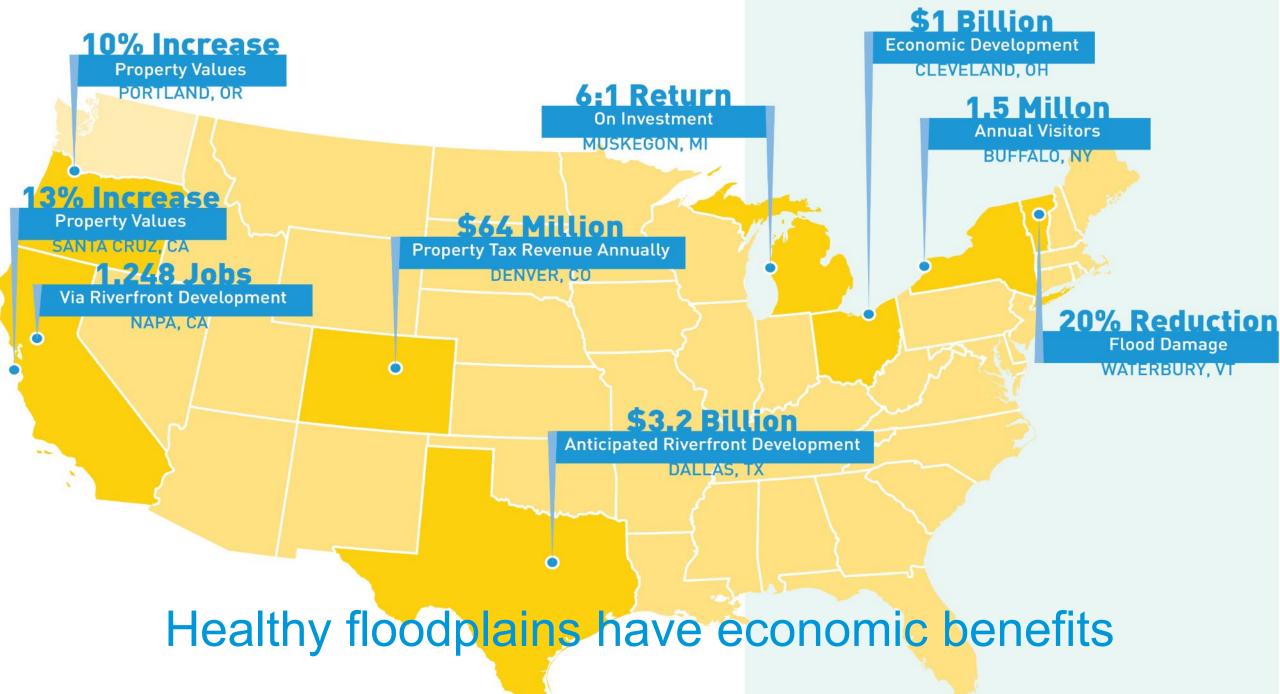


FEDERAL INCENTIVES FOR FRAMEWORK

 FEMA's Building Resilient Infrastructure and Communities Program prioritizes applications with a multi-benefit approach

- FEMA's National Flood Insurance Program offers rate discounts in eligible communities that implement multi-benefit projects
- USDA Floodplain Easement Program encourages floodplain restoration and reconnection where flood conveyance is needed





https://www.americanrivers.org/2020/06/restoration-supports-revenue/



CAN WE DO IT IN ILLINOIS?

Meetings with Interested Parties

- Ecosystem restoration practitioners, racial justice organizations, and floodplain managers
- Baseline education on floodplain concepts and reviewed other state programs
- Case studies in Alexander County, Centreville, Danville, Freeport, Rockford and Ford Heights



THEMES

→ Lack of community education and community-led public engagement

Clear need for gray and green infrastructure combinations

→ Affordable housing and relocation assistance needed with buyout programs

Climate resiliency planning needs to be supported

Rampant false information persists about the National Flood Insurance Program





FINDING: TECHNICAL SOLUTIONS EXIST

Other Types of Support are Needed

Support community-led problem solving

Get more flood hazard mitigation projects on the ground

Ensure equitable economic growth



COMMUNITY-LED PROBLEM SOLVING

- Re-establish the IL DNR "Office of Community Assistance" with specific goals around racial equity
- Establish a community advisory panel for the IL DNR Office of Community Outreach to set goals and metrics for assistance programs
- Fund community-led visioning for climate change adaptation (what project components need to be developed to maintain the community)
- Establish an IL Floodplain Community Justice Network for community organizers to learn and network



GET MORE PROJECTS ON THE GROUND

- Increase state and federal funding for multi-benefit floodplain development projects.
- Host business round-tables with flood hazard mitigation sector, labor unions, racial justice groups, and trade schools to develop recommendations to incentivize job growth.
- Require National Flood Insurance training for all homeowner's insurance agents.

Conduct a flood-compatible farming study and make recommendations to incentivize flood conveyance on farmland.



ENSURE EQUITABLE ECONOMIC GROWTH

- Make space in Illinois for racial justice organizations to lead and drive solutions for flood damage reduction.
- Develop policy recommendations to better integrate economic develop funding with flood hazard mitigation projects.
- Create guardrails for flood hazard mitigation projects that prevent "gentrification"

Improve data collection to track social outcomes of projects and make sure programs are more accountable.



ILLINOIS' NEXT STEPS

- Pass legislation proposed here, possibly with an expanded climate adaptation package with more goals aligned with 30x30.
- Develop more specific recommendations for flood compatible farming.

→ Follow up with case study areas to advance specific goals.

Initiate new conversations with additional sites.



