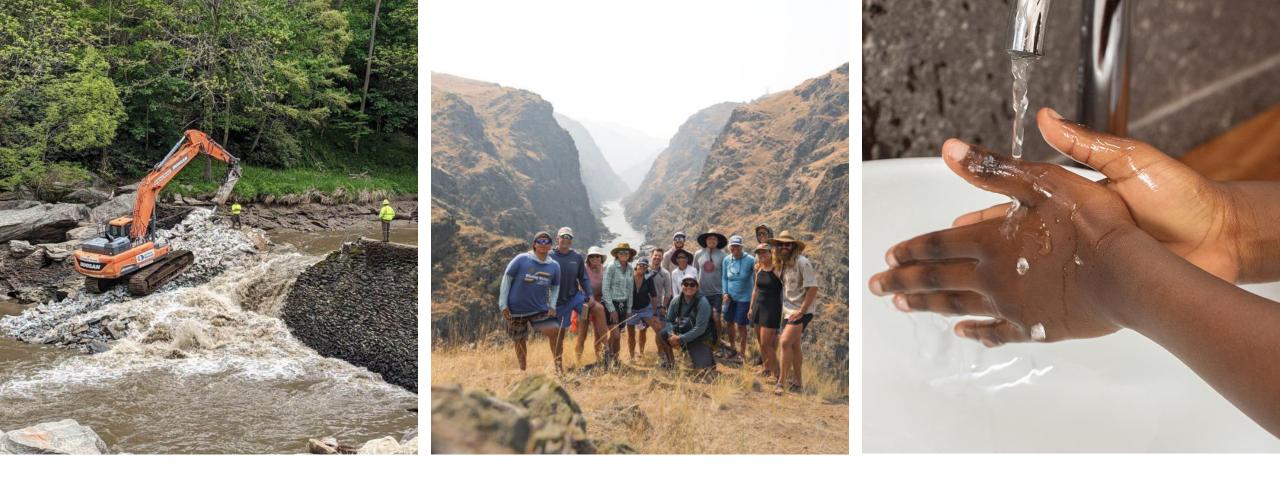
The Multiple Benefits of Floodplain Easements EESI Briefing, June 20, 2023 Eileen Shader, Director River Restoration



AMERICAN RIVERS



American Rivers restores damaged rivers, protects wild rivers, and conserves clean water for people and nature.

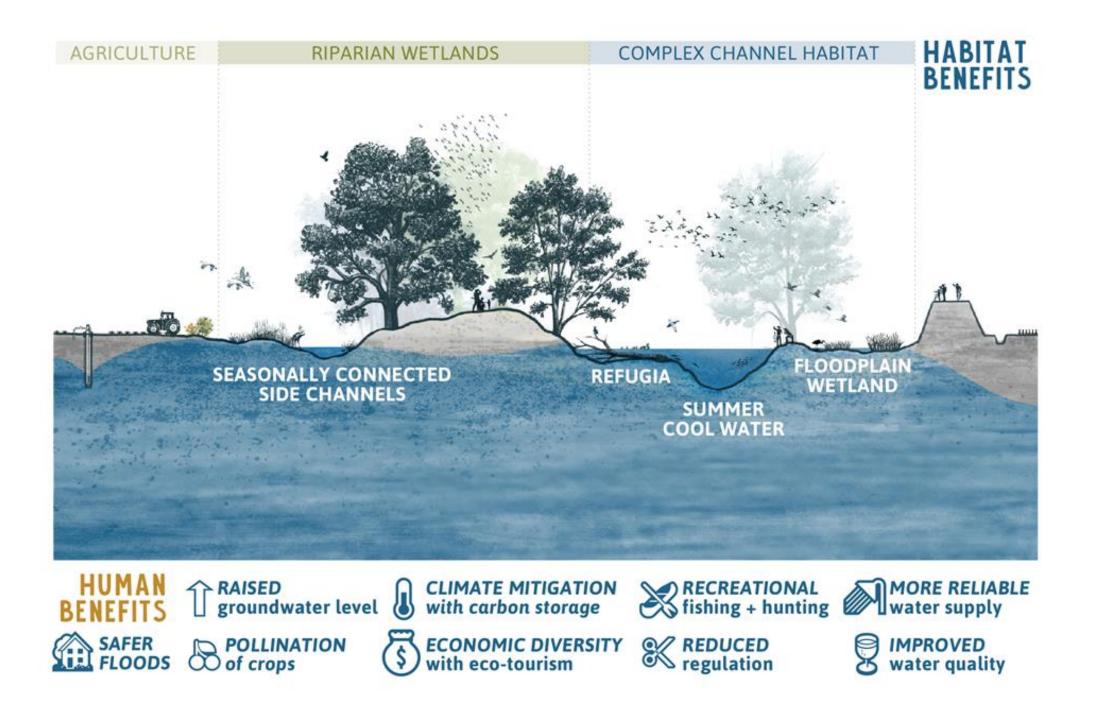




The Multiple Benefits of Floodplain Easements

www.americanrivers.org/floodplaineasements







Dogtooth Bend Timeline:

1993: Levee breach 2011: Levee breach 2015/16: Levee breach 2016: USACE decides not to repair the levee





Limited Options for Farmers dealing with flood-prone land:

- Wetland Reserve Program?
- Floodplain Easements?



In the Upper Mississippi River Basin

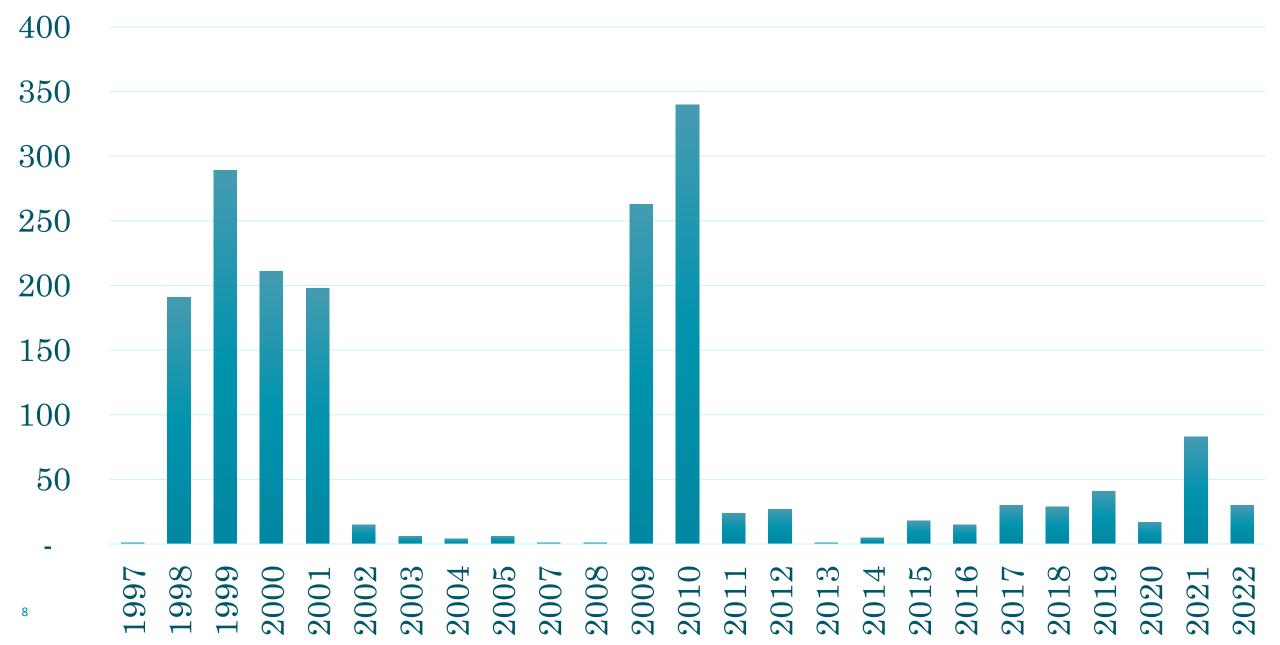
Over the last decade



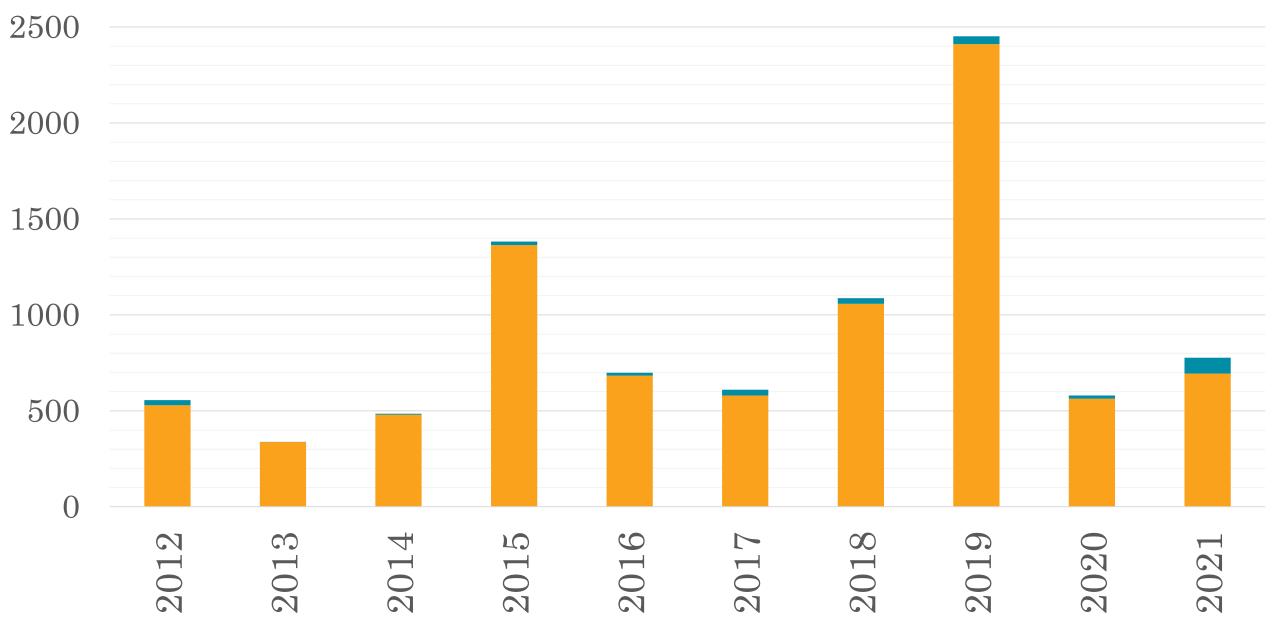
Number of times Congress has funded Floodplain Easements



Count of EWPP-Floodplain Easements Enrolled by Fiscal Year (All States)



Number of Floodplain Easements EnrolledNumber of Agricultural Disasters due to Flooding

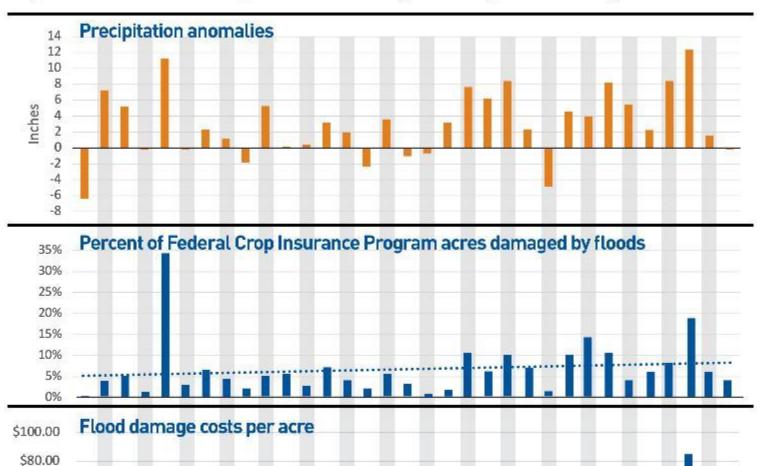


Farmer Requests for Floodplain Easements Greatly Exceed Awards in the Upper Mississippi River Basin

State	Total Applicants	Total Offered Acres	Awarded Applicants	Awarded Acres
Iowa	1,127	115,635	76	9,101
Illinois	362	10,829	30	4,685
Minnesota	44	3,376	7	4,846
Missouri	325	45,010	45	6,717
Wisconsin	352	24,193	54	6,365
Total	2,210	199,043	212	31,714

* Data provided by NRCS from each state.

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Agricultural Flood Damages are Escalating in the Upper Mississippi River Basin

Flooding is more frequent and more expensive.



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\$60.00

\$40.00

\$20.00

\$(20.00)

\$-

Upper Mississippi River agricultural producers are particularly hard hit by flooding

American Rivers Study

TABLE 2: The UMRB sees more damages from flooding and excess rain/moisture than most other states for farmers enrolled in the Federal Crop Insurance program (USDA Risk Management Agency 2022).

10-Year Total Acres Damaged by Flood and Excess Rain/Moisture (millions of acres).		10-Year Total Flood & Excess Rain/Moisture Damage Subsidies (Indemnities minus Producer Paid Premium). Adjusted for Inflation.	
1. North Dakota	16.6	1. North Dakota	\$2.8 Billion
2. Minnesota	16.2	2. Minnesota	\$2.5 Billion
3. Illinois	16.6	3. South Dakota	\$1.7 Billion
4. Missouri	13.8	4. Iowa	\$1.7 Billion
5. Iowa	12.2	5. Missouri	\$1.5 Billion
		6. Illinois	\$1.5 Billion
15. Wisconsin	4.1	14. Wisconsin	\$688 Million

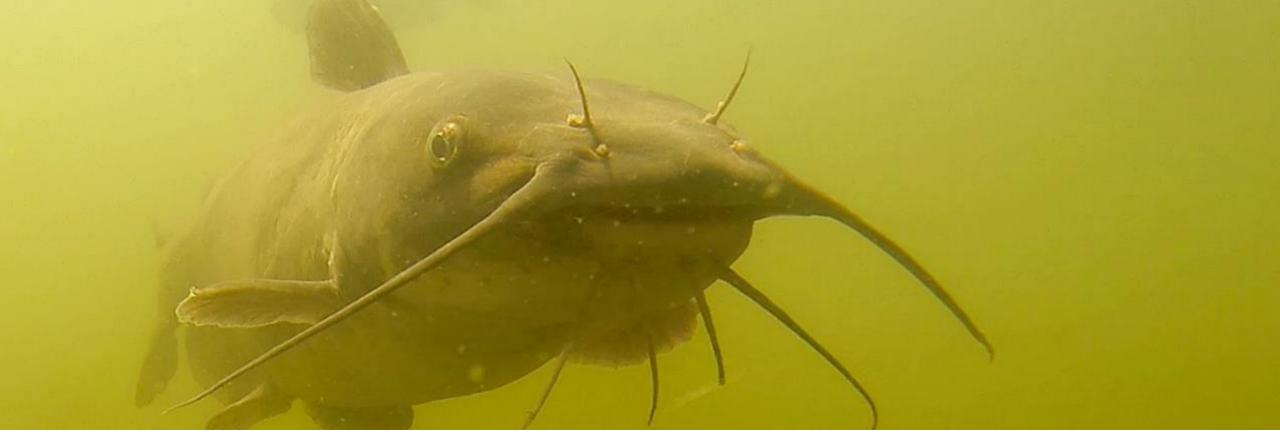


Flooding is costing Taxpayers Billions

Flooding is more widespread than drought

Cause of Loss	Total Indemnities (CPI-Adjusted)	Subsidy (CPI-Adjusted)	Cumulative Acres Impacted
10-Year Total: Flood	\$8 Billion	\$7 Billion	61.6 Million
10-Year Total: Drought	\$10 Billion	\$9 Billion	50.6 Million





It's not just about avoiding costs

Conservation easements on floodplains provide a lot of other benefits



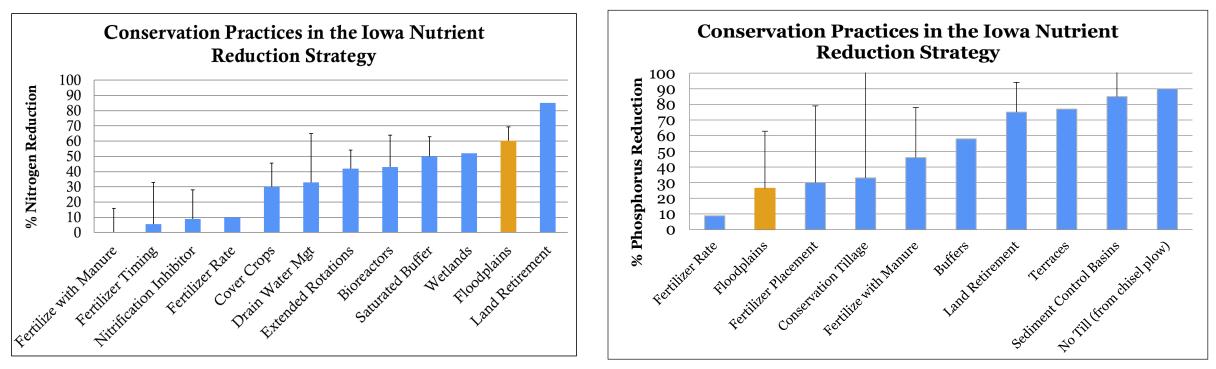
Healthy Floodplains Increase Flood Water Storage

Wetlands can store **1 to 1.5 million gallons** of water per acre

That's the equivalent of a football field-sized swimming pool, 10-feet deep



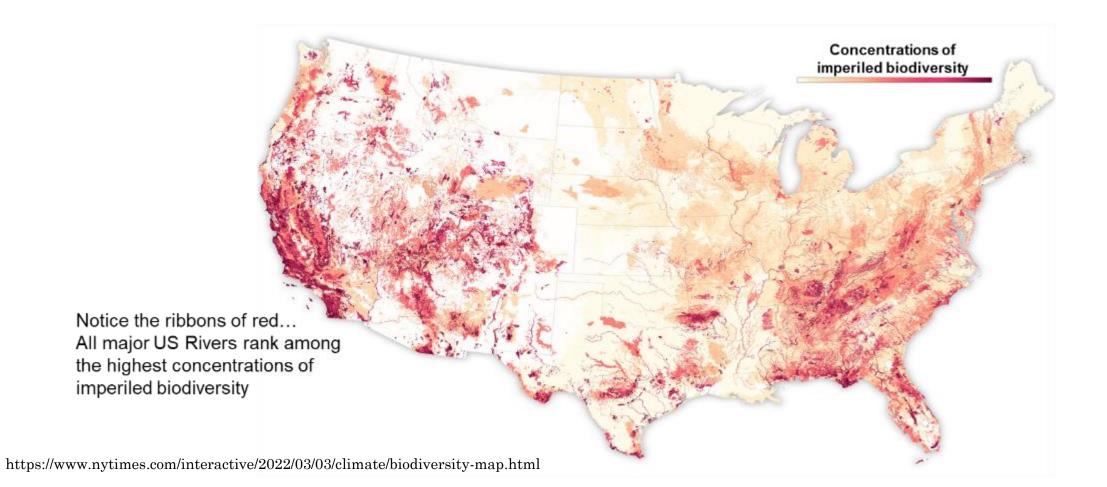
Healthy Floodplains Help Us Meet Nutrient Pollution Reduction Goals



https://www.mdpi.com/2073-4441/12/10/2762



Healthy Floodplains Will Protect Species Most at Risk of Extinction





Recommendations to enhance the Floodplain Easement Program

Conservation goals outlined in the EWPP-FPE are good, in general.



- Move into Agricultural Conservation Easement Program and fund annually
- Annual enrollment opportunity for floodplain easements
- Prioritize repetitive loss properties



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Life Depends on Rivers

