

How wet must a wetland be to have federal protections in post-Sackett US?

Estimating a range of potential impacts from Sackett v. EPA

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Outline

- Clean Water Act
- Methods
- Results
- Conclusions
- Data Viewer
- Questions

Clean Water Act

- Passed by Congress in 1972 to "restore and maintain the chemical, physical, and biological integrity of the Nation's waters"
- Designates select waters and wetlands as "federally jurisdictional"
 Waters of the US (WOTUS), meaning that permits are required to impact them.
 - Traditionally navigable waters
 - Tributaries (relatively permanent)
 - Adjacent wetlands

Sackett v. EPA

- Supreme Court removed "significant nexus" and re-defined which wetlands are federally protected
- For a wetland to be jurisdictional it must be:
 - "indistinguishable from waters of the United States."
 - "This occurs only when wetlands have "a continuous surface connection to bodies that are 'waters of the United States' in their own right, so that there is no clear demarcation between 'waters' and wetlands."



EPA's recent "WOTUS notice" and memo

Memo: Removed wetlands separated from downstream by discrete features

Notice: Asking for feedback on the scope and which features are covered by:

- "relatively permanent" waters
- "continuous surface connection"
 - "connection to"
 - "temporary interruptions in surface connection may sometimes occur because of phenomena like low tides or dry spells."
- Jurisdictional ditches









Which wetlands are protected post-Sackett?

Study goals:

- 1. Estimate impacts of potential interpretations of Sackett v. EPA based on "wetness"
- 2. Determine which states might have most unprotected wetland area

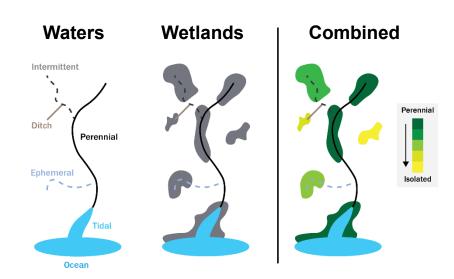


Methods

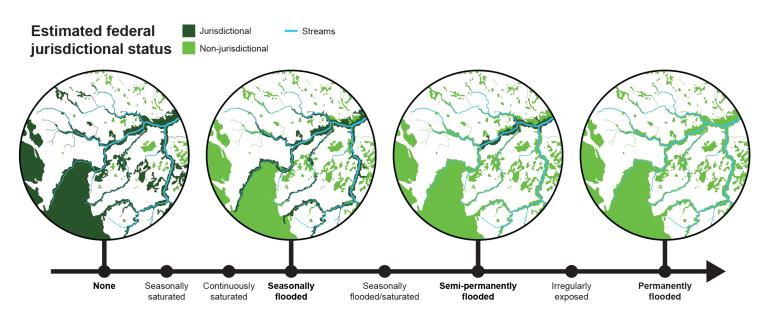
These results are estimates provided for informational purposes only and do not represent actual federal jurisdictional status as determined solely by the US government. Results of this analysis are only suitable for interpretation at large spatial scales due to resolution limitations in the underlying data. Jurisdictional determinations for specific wetlands or properties require higher-resolution data than used in this study and also typically require field visits.

Intersecting wetlands and streams

- Used national streams and wetlands datasets
- Classify wetlands by flowpermanence of streams
- Created a range of "jurisdictional waters" based on flow permanence



Excluding "drier" wetlands

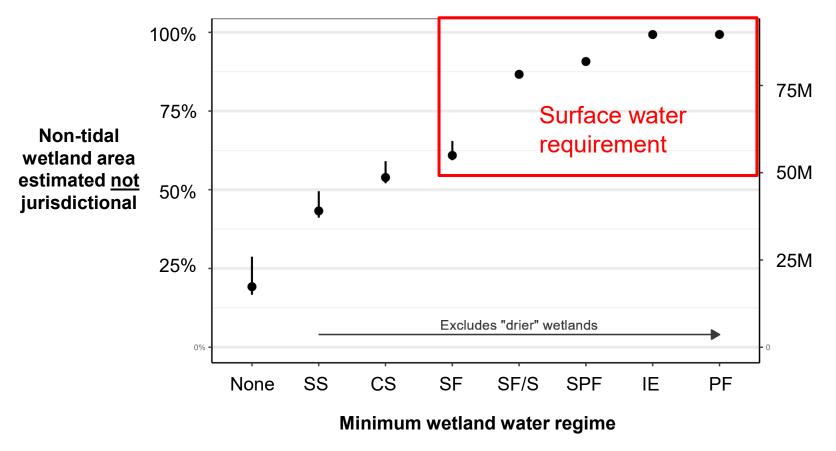


Minimum wetland water regime

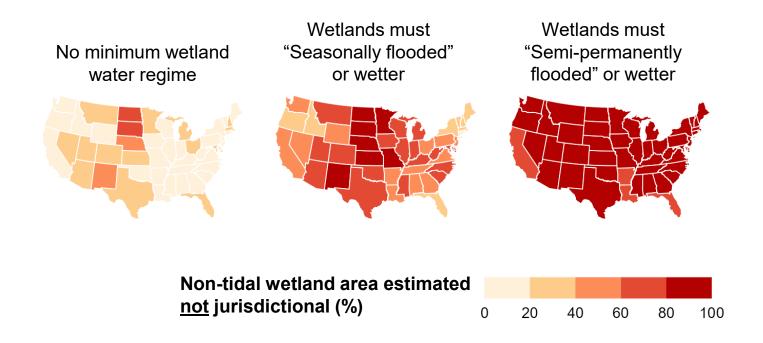


Results

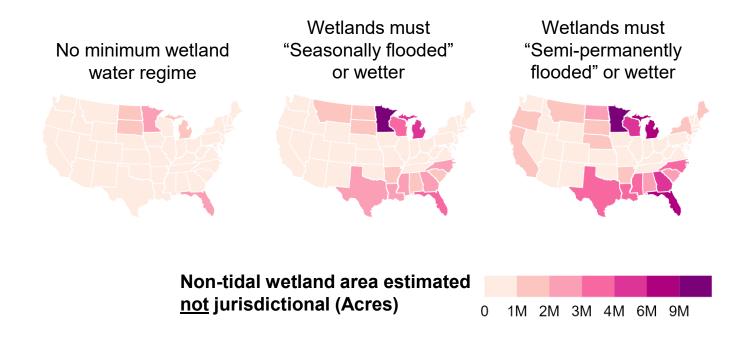
Majority of non-tidal wetland area in US could be non-jurisdictional



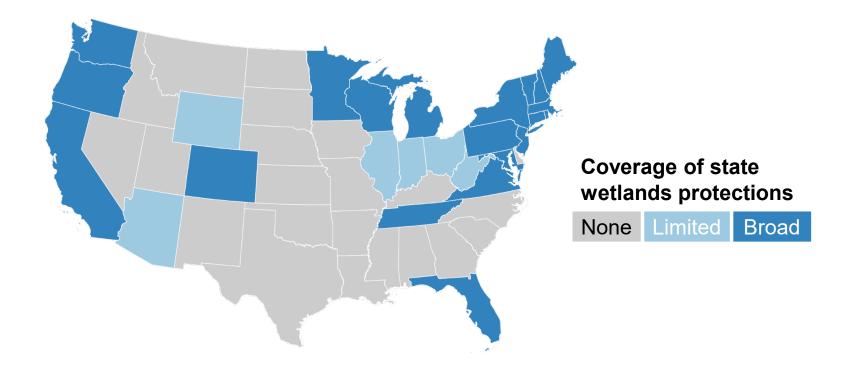
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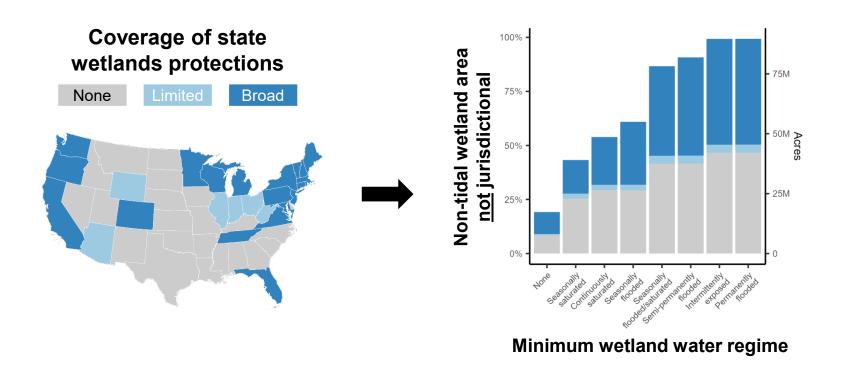


State wetlands protections vary

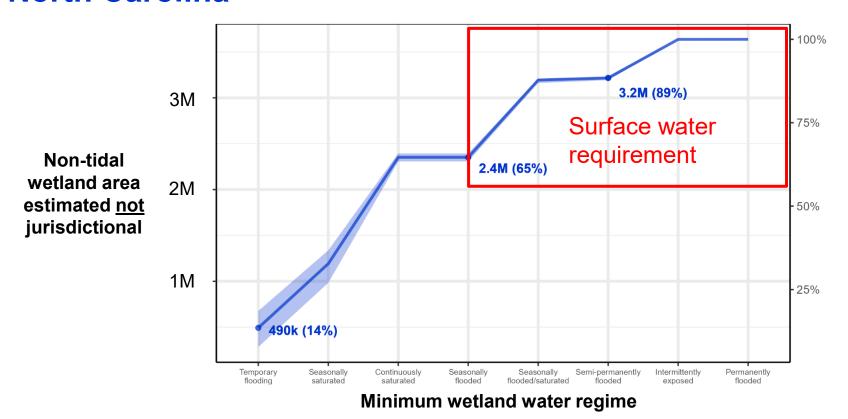


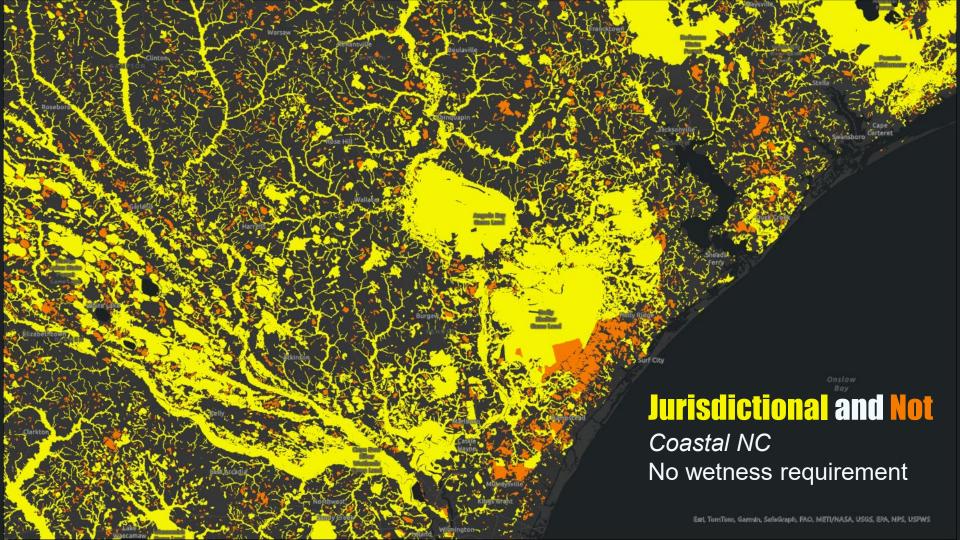
Data from Environmental Law Institute (Kihslinger et al., 2023)

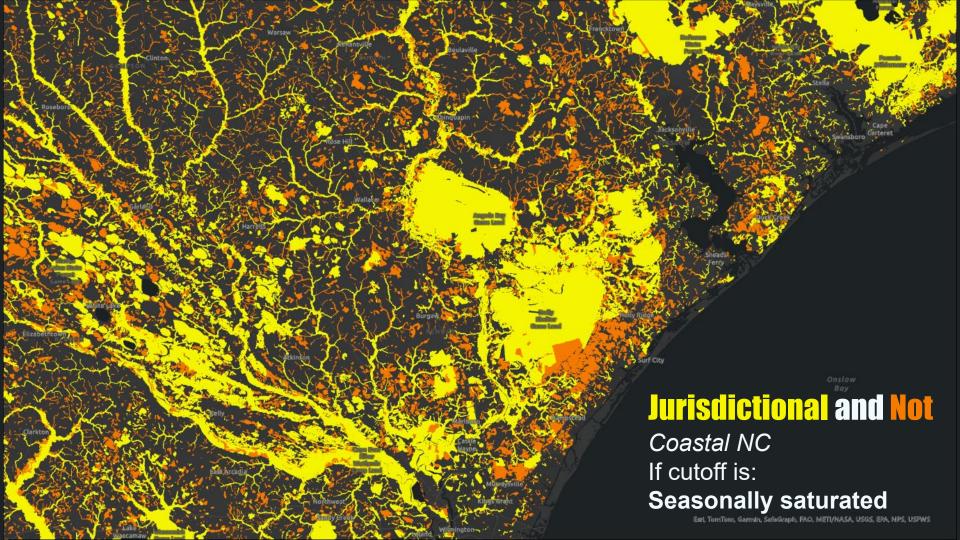
Almost half of non-tidal wetland area estimated as not jurisdictional is <u>not</u> protected



North Carolina













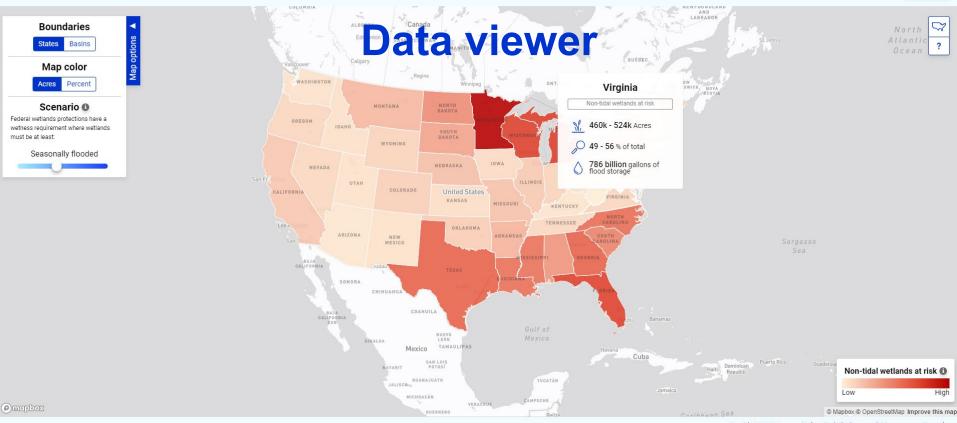
Conclusions

- 1. Clean Water Act wetlands protections are uncertain
- 2. Rollback of protections will increase wetlands loss or require states to fill the gap



Estimating federal wetlands protections







Questions

EDF.org/wetlands

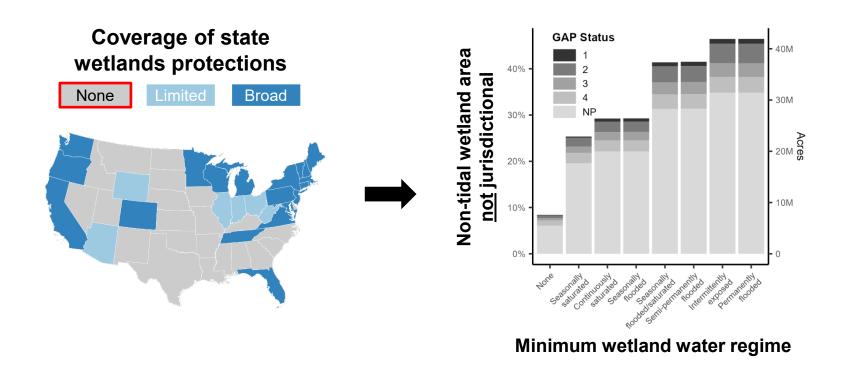


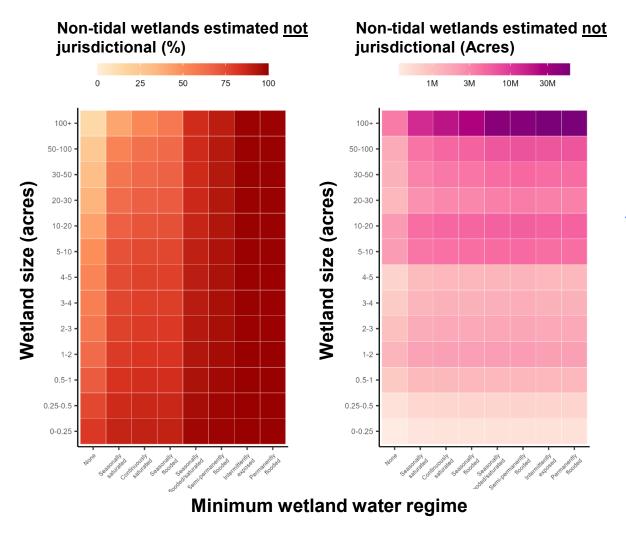
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A "wetness" requirement impacts larger wetlands more



Next steps

- Estimate value of wetlands for flood risk reduction
- Estimate # of people that benefit from wetlands



Data viewer