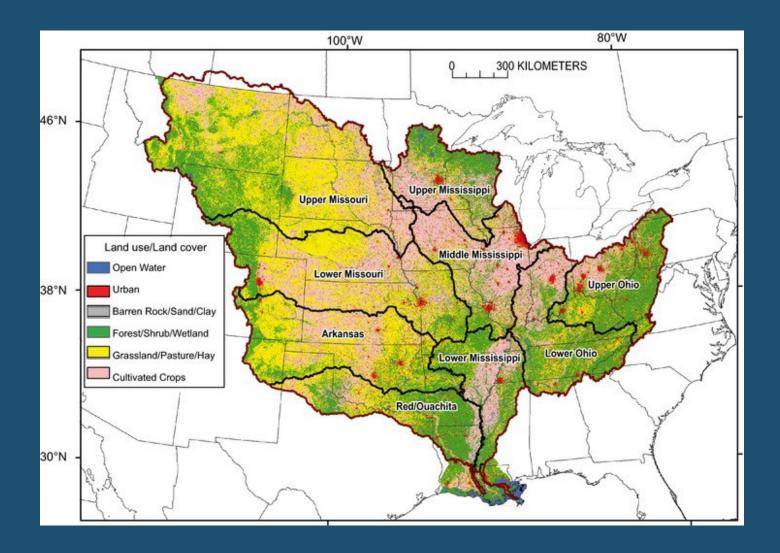


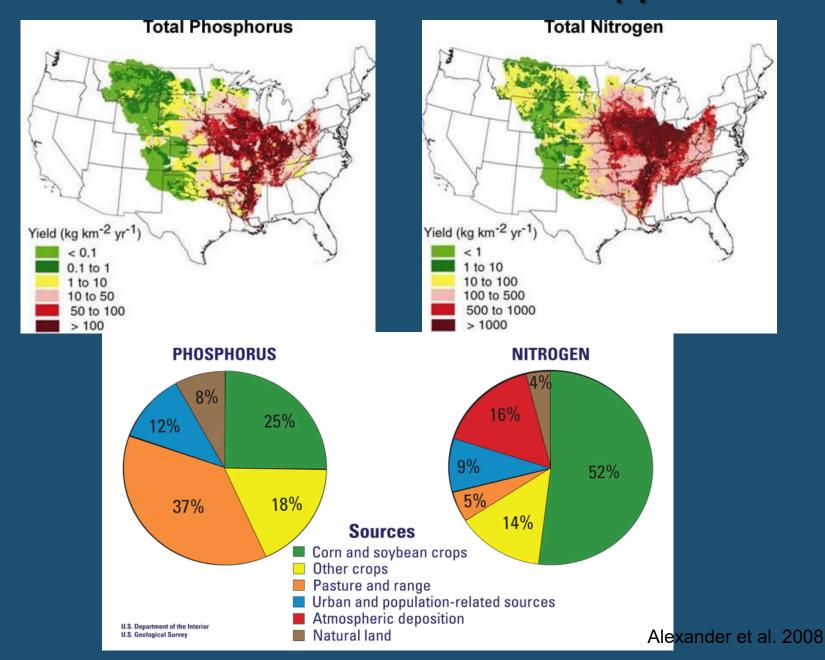
The Gulf Hypoxia Action Plan and the Mississippi River Basin

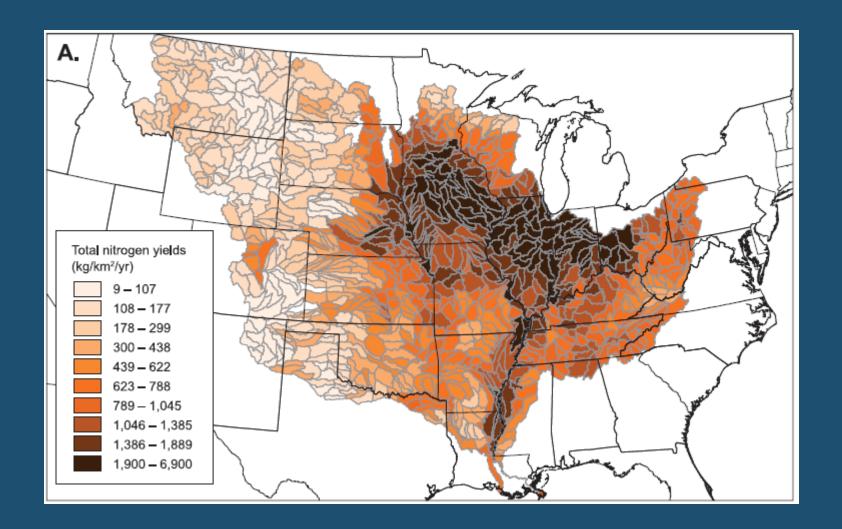
Doug Daigle Louisiana Hypoxia Working Group

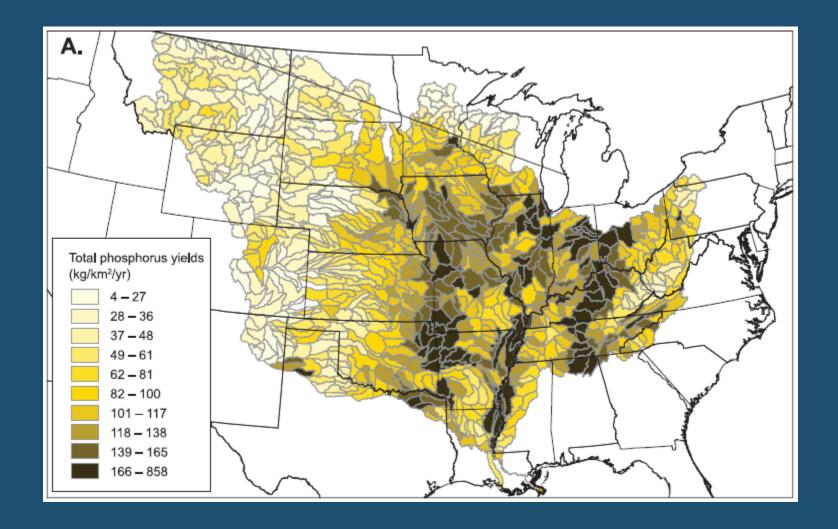
Lambda Alpha International Land-Water Webinar May 28, 2025

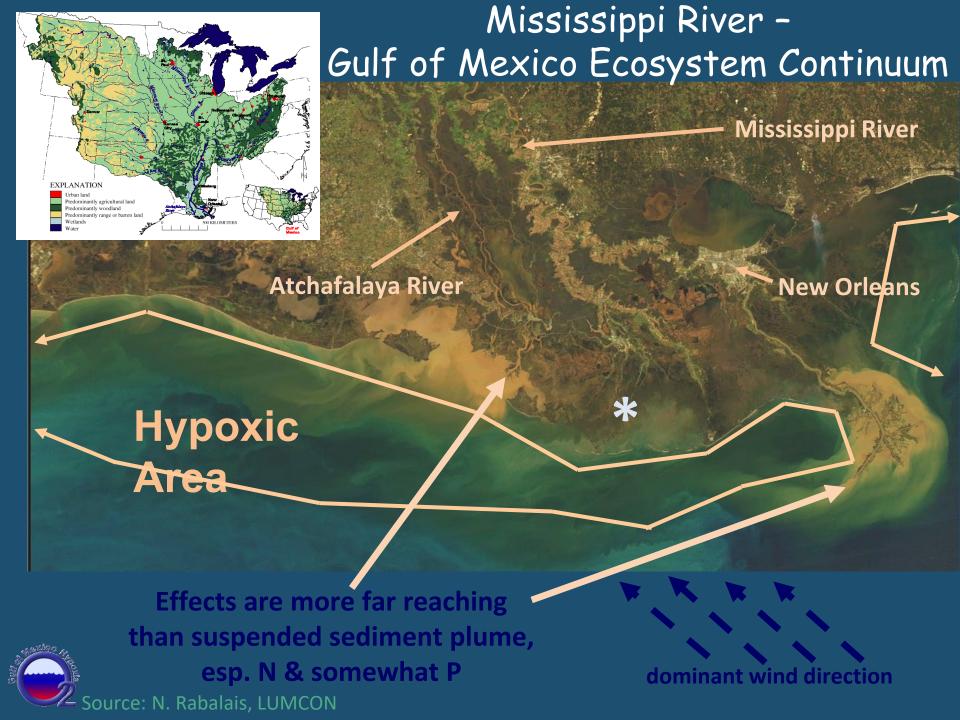


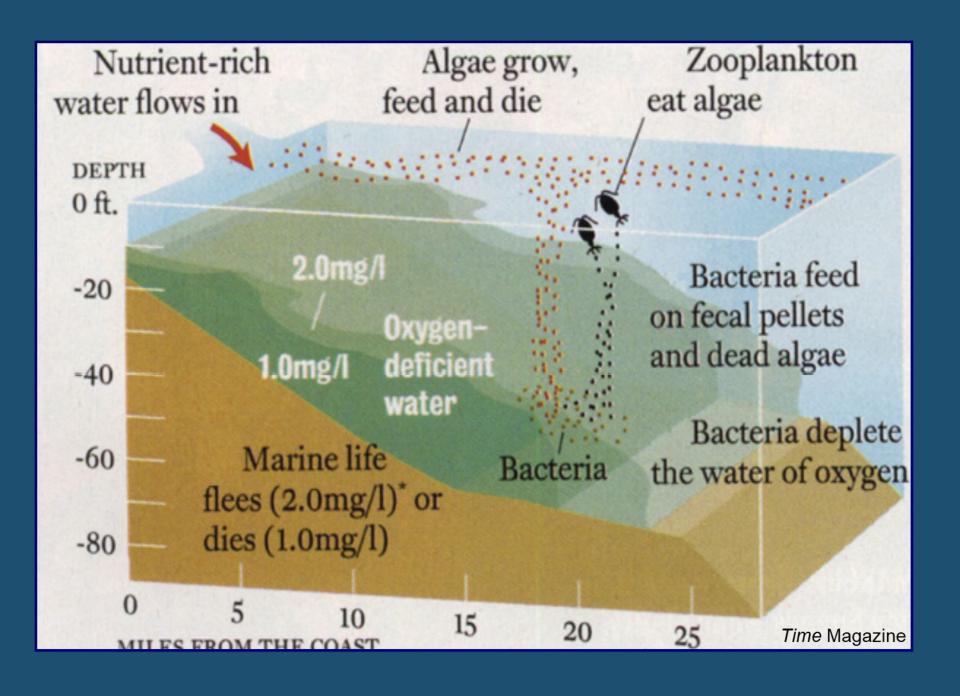
Nutrient Yields from the Mississippi Basin

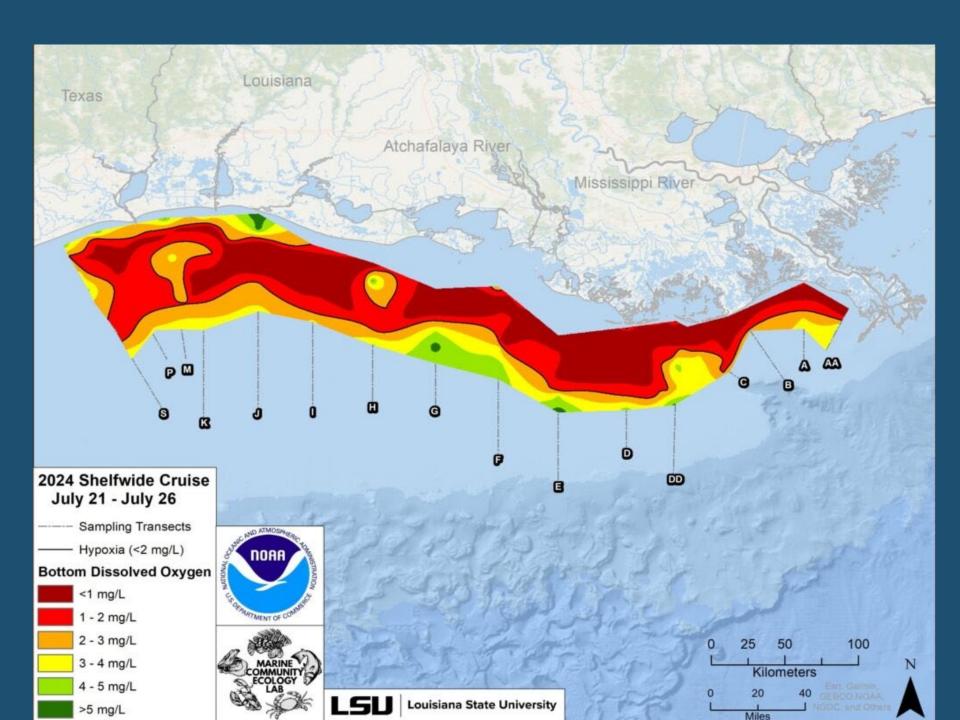


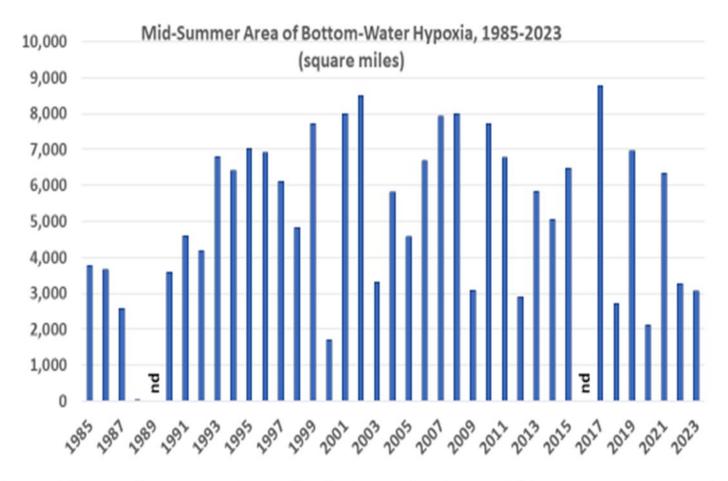












The size of the area of bottom-water hypoxia (dissolved oxygen less than 2 mg l-1) for 1985-2023, in square miles. "nd" indicates no data—a year without a completely mapped area or no mid-summer shelf wide cruise (1989 & 2016). The area for 1988 is minimal and not visible on the graph.



for Reducing, Mitigating, and Controlling Hypoxia in the Northern Gulf of Mexico and Improving Water Quality in the Mississippi River Basin



Action Plan Goal 2015

- We strive to reduce the five-year running average areal extent of the Gulf of Mexico hypoxic zone to less than 5,000 square kilometers/1950 square miles by the year 2035.
- An Interim Target of a 20% reduction of nitrogen and phosphorus loading [to the Gulf from the MARB] by 2025 is a milestone for immediate planning and implementation actions...

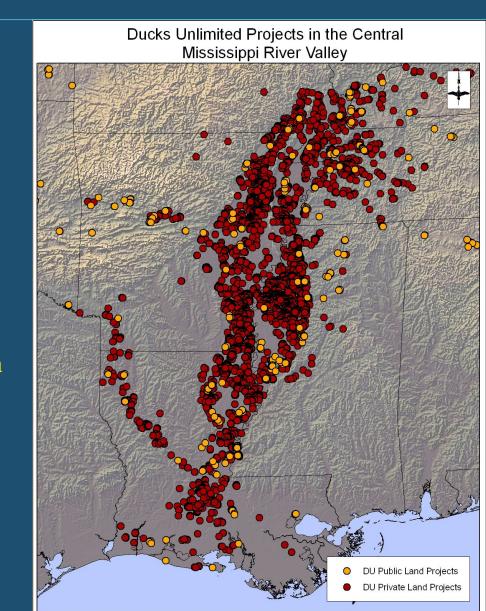
The Gulf Hypoxia Action Plan 2000-2035

- The Gulf Hypoxia Action Plan is analogous to a treaty, with commitments and obligations for signing parties
- Core commitment: to help reach the Plan's Goals
- Baseline requirement for reaching Plan's Goals –
 adequate if not full funding
- 2025 Target not a priority for the Hypoxia Task
 Force from 2015 to present no attempt by HTF or
 LA to raise implementation funds from Congress

Activities Related to Gulf Hypoxia Action Plan - continued

Indirect Funding Sources and Streams for Nutrient Reduction – Collateral Benefits, Related Aims:

- Federal: Land and Water
 Conservation Fund (GAOA); IIJA;
 IRA
- WRDA Projects: UMR Protection Program (UMRBA, UMRCC), LMR Restoration Study (LMRCC)
- **Private-Public/Private**: CF, DU, NFWF, TNC, TPL

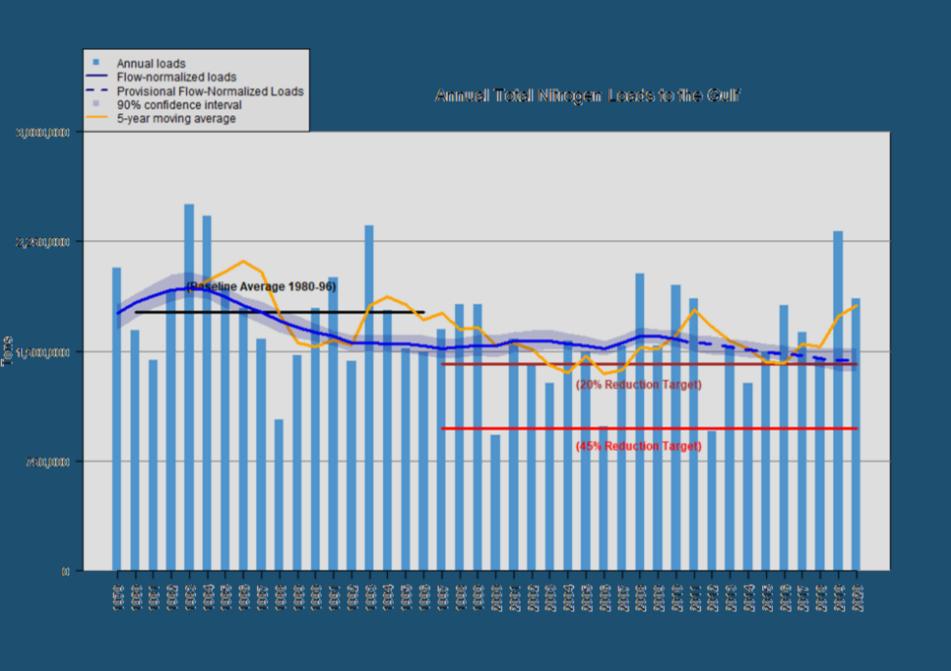


Tools of the Gulf Hypoxia Action Plan

- Conservation Programs in the Farm Bill;
- USDA Landscape Initiatives: MRBI, RCPP
- State Nutrient Reduction Strategies (12 states in Mississippi/Ohio River Basins)
- Water Resources Development Act (WRDA)
- Land and Water Conservation Fund
- Section 319; Clean/Drinking Water State Revolving Funds
- Private efforts: Ducks Unlimited, Nature Conservancy,
 Conservation Fund, Restore the Earth Foundation, Iowa
 Soybean Association, Innovative Watershed Projects

Gulf Hypoxia Action Plan – Collateral and Reciprocal Benefits

- Agricultural Productivity and Resilience
- Climate Resilience, GHG Reduction/ Sequestration
- Drinking Water Protection
- Ecosystem Protection and Restoration
- Natural Infrastructure for Flood Risk Reduction
- Harmful Algal Bloom Prevention



Gulf Hypoxia Action Plan Funding

- 2001 Draft federal budget for Plan never applied
- Conservation Programs in US Farm Bill remain key tool for GHAP since it was signed
- 2010 USDA NRCS creates Mississippi River Basin Initiative,
 combining and focusing several Farm Bill Programs in watersheds that
 drain (ultimately) to the Gulf from Mississippi/Ohio River Basin
- 2022 Bipartisan Infrastructure Law/Infrastructure, Investment, & Jobs
 Act Cassidy provision directing \$60 million over 5 years to GHAP the
 first direct Congressional funding for HTF States/GHAP since Plan signed
- 2022 EPA creates **Gulf Hypoxia Program** to BIL funds to HTF States, Tribes, Land Grant Universities funds last throughFY26
- Inflation Reduction Act 2022 several billion in "climate smart" conservation practices (same as water quality improvement practices)

Inflation Reduction Act 2022

- \$8.45 billion for the **Environmental Quality Incentives Program** (EQIP) financial support to implement conservation practices on working lands.
- \$6.75 billion for the **Regional Conservation Partnership Program** (RCPP) grants for conservation projects at the state, multistate, or watershed-scale level.
- \$3.25 billion for the **Conservation Stewardship Program** (CSP) financial assistance to producers to maintain and improve existing conservation systems and to adopt additional conservation activities.
- \$1.4 billion for the **Agricultural Conservation Easement Program** (ACEP), financial support for Agricultural Land Easements and Wetland Reserve Easements.

Looking Forward – Current Situation 2025

- Uncertainty of USDA conservation funding in Inflation Reduction Act
- Uncertainty of current USDA conservation funding, prospect for renewed Farm Bill
- Dismantling of federal agencies, programs, research
- Key Hypoxia Action Plan Funding Prospects: EPA Gulf
 Hypoxia Program (HTF States), Upper and Lower
 Mississippi River Restoration Programs/Studies, Farm Bill

Thank you

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