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HOPEFUL



ANGRY 10%



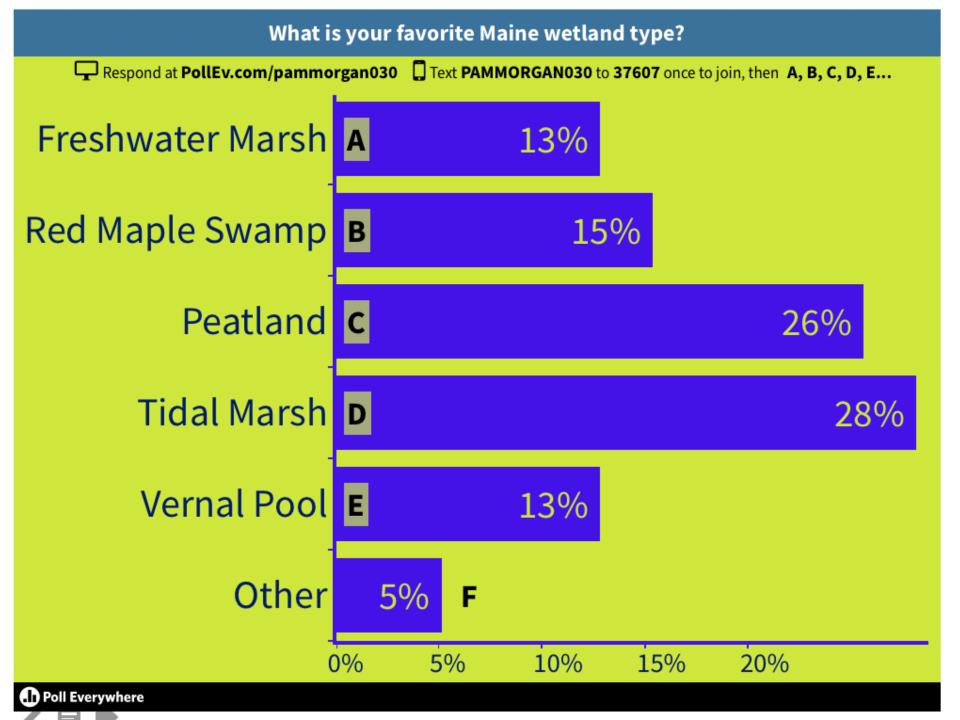
DOUBTFUL 25%



CANADIAN

53%

Message and data rates may apply (1)



Maine EPSCOR

Experimental Program to Stimulate Competitive Research

Sustainability Solutions Initiative









Senator George J. Mitchell Center for Sustainability Solutions







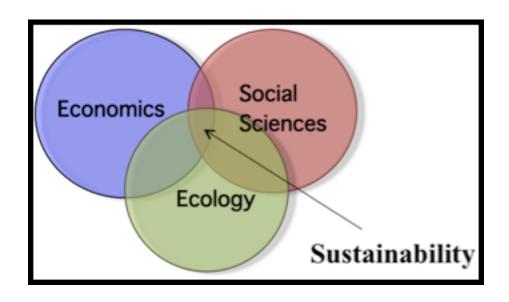
Sustainability Solutions Initiative

The Sustainability Solutions Initiative (SSI) is funded by a five-year, \$20 million National Science Foundation EPSCoR (Experimental Program to Stimulate Competitive Research) grant to ME EPSCoR at the University of Maine. The project's mission is to connect knowledge with action in ways that promote strong economies, wibrant communities and healthy ecosystems in and heaped Maine.

Senator George J. Mitchell Center for Sustainability Solutions Home

2016 Maine Sustainability & Water Conference

Sustainability science



"...seeks to understand the fundamental character of interactions between nature and society and to encourage those interactions along more sustainable trajectories."

A message for research scientists

"You must learn to live with **vagueness** and uncertainty, and make decisions with incomplete information and competing pressures.

You must also **learn to work with people outside your profession** who represent different value systems, hold perspectives that may be unfamiliar to you, and have the power to do things that you cannot do or cannot stop."

Importance of place-based research

"Such an integrated, place-based science will require new research strategies and institutional innovations to enable them."

- Kates et al. 2001. Science







Who are the stakeholders who care about and are responsible for the Saco River estuary?



Connecting UNE and the Community

Citizens of Biddeford Citizens of Saco Saco Planning Board Saco Comprehensive Committee Saco Conservation Commission **Biddeford Conservation Commission** Heart of Biddeford Saco Valley Land Trust **Biddeford Open Space Committee Biddeford Planning Board** Saco River Salmon Club Saco River Coordinating Committee **Biddeford Pool Land Trust** Friends of Wood Island Lighthouse **Biddeford Pool Improvement Association Biddeford Chamber of Commerce** Blandings Park Wildlife Sanctuary Biddeford Environmental Board Saco Coastal Waters Commission **UNE Waste Water Treatment Facility**















What are your concerns? What do you value?





Sustainability Science

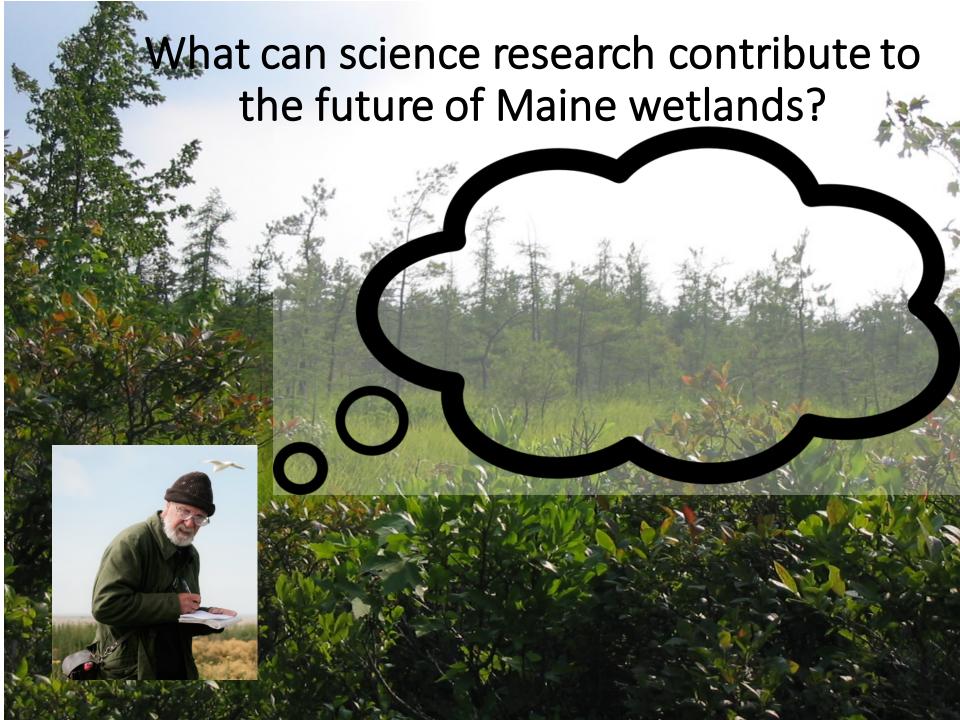








Sea Level Rise Coastal Development Nitrogen inputs Bacteria/E. coli **Estuarine Health** Water **Invasive Species** ??? quality

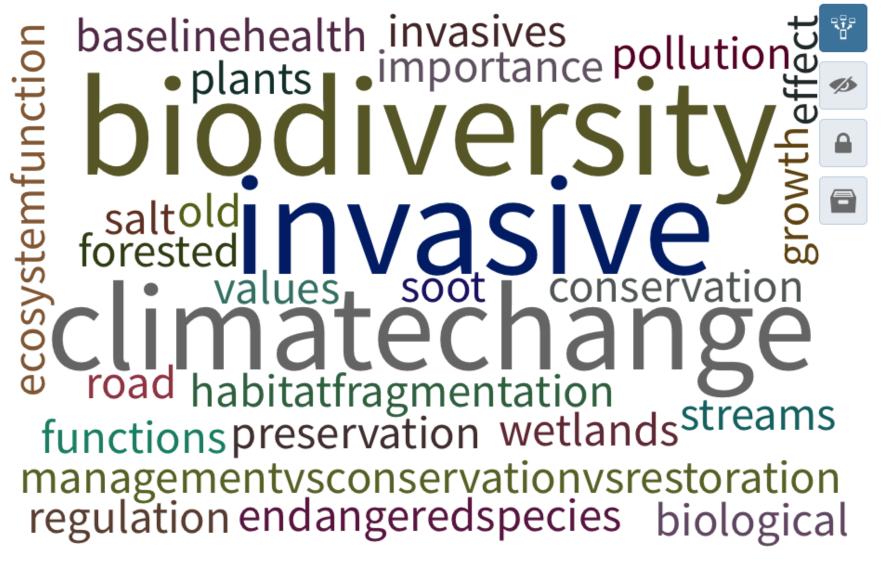


Current wetland research

- Mapping, monitoring, assessment
 - Documenting wetland loss & change
- Wetland restoration/creation success
 - Assessing compensatory mitigation efforts
- Changes in wetland species diversity
- Effects of human impacts on wetlands
 - Development
 - Nutrient loading
 - Invasive species
 - Altered hydrology
- Ecosystem services and wetlands
- Climate change
 - Carbon budgets
 - Response to changes in hydrology, temperature
 - Effects of sea level rise
- Tipping points

What should Maine wetland research focus on?

• Poll is full and no longer accepting responses



What should be thefocus of Maine wetland research?

Respond at PollEv.com/pammorgan030 Text PAMMORGAN030 to 37607 once to join, then text your message

"Tipping points"
about 19 hours ago

"Habitatconnectivity"
about 19 hours ago

"Nutrient loading capacity vs disturbance and toxicity"

about 19 hours ago

"Prioritization, role of wetlands under climate change, planning for long term, landscape scale effects."

"Long term monitoring" about 19 hours ago

"RestorationCreationSuccess" about 19 hours ago "Deforestation and the affect on wetland systems (spruce budworm, logging, etc)" about 19 hours ago

"Restoration" about 19 hours ago

"Pammorgan030" about 19 hours ago "Ecosystem services, forest industry impacts and wetlands/vps, climate change" about 19 hours ago

"Climatechange"
about 19 hours ago

"Public perception of wetland values to society" about 19 hours ago

"Effect of climate change on montane wetland ecosystems" about 19 hours ago

"Volkswagen" about 19 hours ago

"Public perception of wetland values to society" about 19 hours ago

"Geographic differences in Maine wetlands" about 19 hours ago

"Washing machines" about 19 hours ago "Old tires" about 19 hours ago

"Ecosystem Tipping points" about 19 hours ago "Wetland migration monitoring" about 19 hours ago

"Regulatory support of mitigation banking." about 19 hours ago

