Harmful Algae Bloom Economic Impact Data Dashboard

WATER QUALITY IMPROVEMENT

Harmful Algal Bloom
Economic Impacts Data Dashboard
Florida Gulf Coast

Contents

Dashboard navigation: hold ctrl key while selecting with mouse to choose multiple impact types or regions.

Data Sources
All data used are from publicly available sources; no new data were generated to estimate HAB impacts in order for this to be more transferable to other regions.
NOTE: The estimates of economic losses presented here should be understood to be conservative to avoid inflating the HAB-related economic losses.

GULF STAR
GULF OF MEXICO ALLIANCE

GULF OF MEXICO ALLIANCE

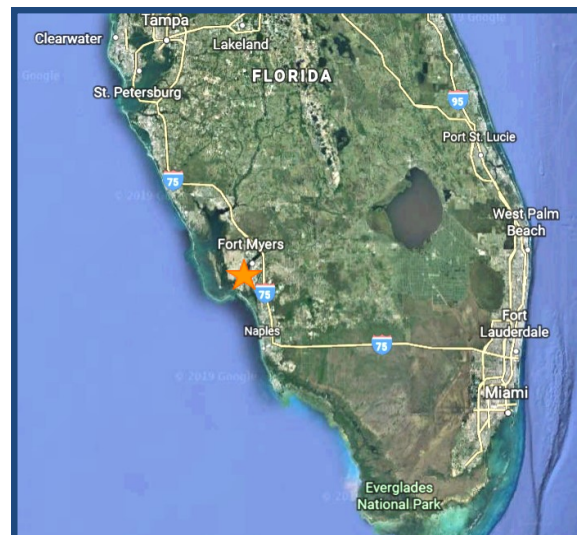COASTAL & HEARTLAND NATIONAL ESTUARY PARTNERSHIP

The Balmoral Group

Summary

In April 2019, the CHNEP partnered with The Balmoral Group (Balmoral), an economics and engineering consulting firm, to respond to a Request for Proposals from the Gulf of Mexico Alliance (GOMA) to evaluate the economic impacts of water quality impacts in the Gulf, specifically Harmful Algal Blooms (HABs). The proposal was approved by GOMA's Water Resources Team in May 2019 and the approximately one-year study was initiated in July.

CHNEP has been working with The Balmoral Group to develop and test a "dashboard" that will enable coastal resource managers to quantify the economic implications of HABs and thereby assess the value of restoration investments or management actions in avoiding negative economic impacts. Balmoral has relied on its recent experience with NASA to link remotely-sensed (satellite) data, social media data, and documented economic losses along Florida's Gulf coast. CHNEP staff have provided technical review and feedback to Balmoral, as well as assisted in convening stakeholders - utilizing web-casted CHNEP Management Conference meetings as public workshops to disseminate information about this project as well to gather public input for the Dashboard's development.

The final HAB Economic Impact Dashboard is available at https://datavisual.balmoralgroup.us/GOMA-HABecon.

Location: CHNEP Area

Partners: Balmoral Group

Implemented: 2019—Present

Status: Completed

Cost: In-Kind Support

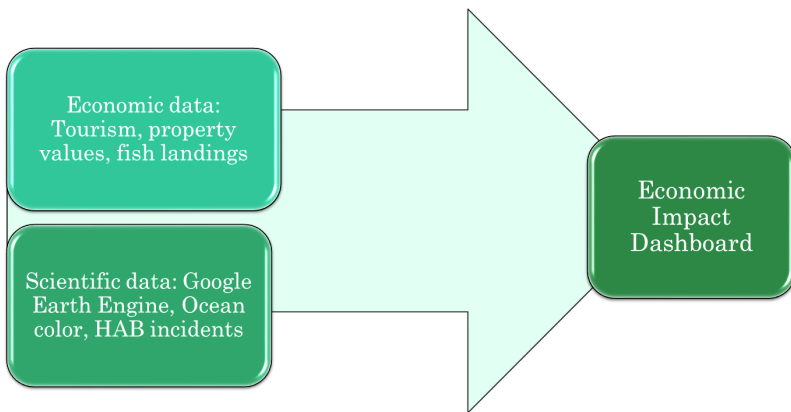**Funding Source:** Gulf of Mexico Alliance (GOMA)

2019 CHNEP Plan Activity:

Water Quality Improvement 5.1:

5.1

Support Harmful Algal Bloom (HAB) research and monitoring and measures to reduce their environmental, social, and economic impacts through the identification and reduction of anthropogenic influences.

COASTAL & HEARTLAND NATIONAL ESTUARY PARTNERSHIP

Project Approach

Economic data: Tourism, property values, fish landings

Scientific data: Google Earth Engine, Ocean color, HAB incidents
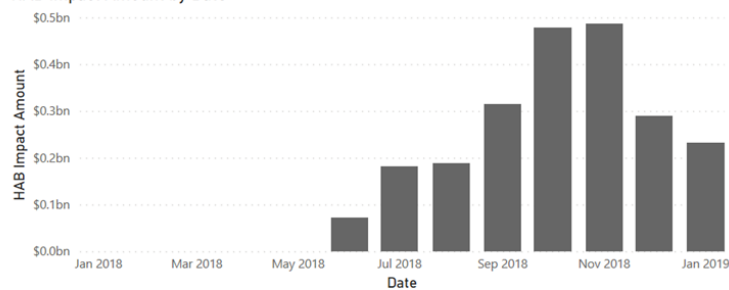
Economic Impact Dashboard

Anticipated Results and Benefits

- Enables resource managers to quantify the economic impact of HABs in order to assess the cost/benefit of restoration investments and/or management actions in preventing such economic losses.

- Conveys to the public and policymakers the monetary effect of HABs on various revenues, employment, wages and property values, to cultivate support for measures to prevent or control HABs.
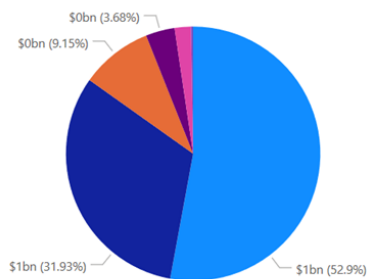
Dashboard Website: **https://datavisual.balmoralgroup.us/GOMA-HABecon**

HAB Impact Amount by Date

Impact Type
- ☐ Boat Dealer Revenues
- ☐ Commercial Fishing
- ☐ Property Sales Value
- ☐ Property Transaction Fees
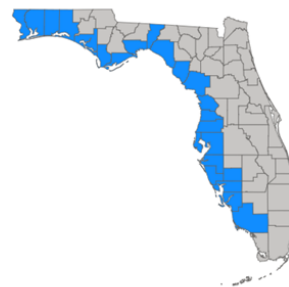- ☐ Recreational Fishing
- ☐ Restaurants & Hotels/Accommodations

HAB Impact Amount by Impact Type

$0bn (3.68%)
$0bn (9.15%)
$1bn (31.93%)
$1bn (52.9%)

Impact Type
- Property Sales Value
- Restaurants & Hotels/Acco...
- Property Transaction Fees
- Boat Dealer Revenues
- Recreational Fishing
- Commercial Fishing

Counties

Metro Areas

Microsoft Power BI   ‹ 3 of 7 ›

CONTACT INFORMATION

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