HGIT Fall Meeting – October 2nd, 2024 Chesapeake Bay Program



Submerged Aquatic Vegetation Workgroup Updates

Brooke Landry Maryland DNR and Chair, SAV Workgroup Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...



Goal: Vital Habitats

Outcome:

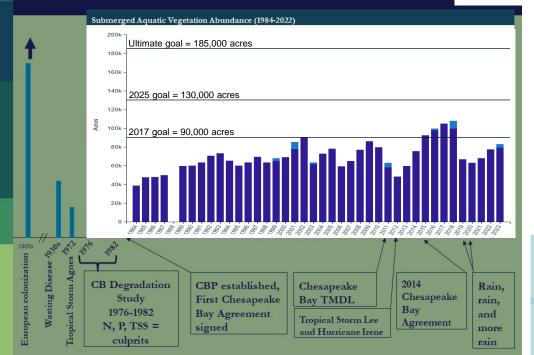
Sustain and increase the habitat benefits of SAV in the Chesapeake Bay. Achieve and sustain the ultimate outcome of 185,000 acres of SAV Bay-wide necessary for a restored Bay. Progress toward this ultimate outcome will be measured against a target of 90,000 acres by 2017 and 130,000 acres by 2025.

2023 #s are in!

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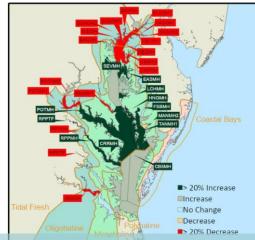
What is our Progress?

Progress towards the Bay-wide SAV goal



Final SAV #s were up in 2023:

- 79,234 acres were mapped in 2023.
- 3,703 additional acres of SAV are estimated for a portion of the Potomac that was not mapped.
- 82,937 total acres of SAV estimated for 2023(+7%).
- This is 61% of the 2025 target and 45% of the ultimate 185,000-acre outcome.



https://www.vims.edu/research/units/programs/sav/access/maps/index.php

https://www.chesapeakeprogress.com/abundant-life/sav

GIT-funded Project: Shallow Water Habitat Sentinel Site Program

<u>Request to Management Board</u>: "We ask that the MB endorse the necessity of **establishing a Shallow Water Habitat Sentinel Site Program** and guide the CBP to take the necessary steps to do so."

This tier-3 monitoring effort would not only monitor the impacts of climate change on the functional value of shallow water habitats throughout the Bay but also track the effectiveness of measures taken beyond 2025.

Management Board: Go forth and Explore the Possibilities

<u>UPDATE: Development of the SWHSS Program was selected for FUNDING through the CBP Goal Implementation Team Project Initiative!!</u>

CBP Strategy Review System

SAV Management Strategy and Logic and Action Table/2-Year Workplan

SRS process ran October – March 2024 2024-2025 (V. 5)Updated Management Strategy and SAV Workplan available soon.

Request to Management Board

- Step 1: Literature and Existing Program Review; identification of data gaps.
- Step 2: Scoping Workshop.
- Step 3: Full Shallow Water Habitat Sentinel Site Program Development.
- Step 4: Secure long-term funding for the Shallow Water Habitat Sentinel Site Program.
- Step 5: Implement the Shallow Water Habitat Sentinel Site Program as a long-term CBP partnership effort.

GIT-Funded Project Schedule:

Proposed EPA GIT Path Forward and Draft Schedule:

- Mid-August to Mid-September 2024: Trust work with GIT Leads and coordinate with QA coordinator; Trust to receive EPA Award for Year 4 of GIT projects.
- · Mid-September 2024: Release RFP with seven Scopes of Work
- Mid-October 2024: close RFP (RFP open for 30 days).
- November 2024: Review applications and make recommendations for awards
- December 2024: Write and send Contract Awards
- January 2025: Contractors begin work!



2022 GIT-Funded Project Lead: SAV Workgroup

Note: Tetra Tech will present near finished project at FALL SAV Workgroup meeting. November 13th.

Protecting Chesapeake Bay SAV Given Changing Hydrologic Conditions:

Priority SAV Area Identification and Solutions Development – progress moving along..

Project Objective

This project will identify high-priority SAV areas within the Chesapeake Bay Watershed and determine which BMPs could be most effective in protecting those areas from loss during high-flow events/years using GIS spatial analysis/modeling and existing SAV, flow, land-use, and water quality data. With this information, steps can be taken to target high-priority SAV areas for implementation of BMPs and land management policies that will protect or restore those priority SAV habitats.

Contracted to: Tetra Tech

- Steering committee has been identified and had their first meeting
- Bob Murphy, Tetra Tech, will present on project and progress later this morning



Advancing Social Marketing Through
Two Pilot Programs – Steve told us about their progress on this earlier....

Proposed Project Outcomes

This project will develop pilot programs for existing community-based social marketing (CBSM) campaigns that have been developed over the past few years, SAV being one.

Contracted to: OpinionWorks

No new updates since last HGIT meeting...

I PROTECT BAY GRASS BEDS.

O LEARN MORE GO TO HESAPEAKEBAY.NET



Chesapeake Bay is my Community. I commit:

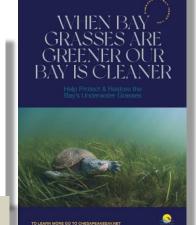
- To not removing my Bay grasses
- To trim my motors in shallow waters
- To fertilizing my lawn less, or using a Bay-friendly fertilizer
 To following posted speed limits while boating



Join your neighbors and help restore the Chesapeake Bay by protecting your Bay grasses.

DIDNI HERE

CHESAPEAKEBAY.NET





Chesapeake Bay SAV Watchers Program

FOUR SAV Watcher Trainer Certification Events in 2024:

Accokeek Foundation at Port Tobacco,

Havre de Grace Maritime Museum Environmental Center,

The Nature Conservancy Virginia Chapter at VCU's Rice Rivers Center!

Maryland Conservation Corps at Gunpowder Falls State Park



Chesapeake Bay SAV Watchers

Chesapeake Bay SAV Watchers is a program to provide volunteer scientists witl an engaging and educational experience with submerged aquatic vegetation (SAV) while also generating useful data for Bay scientists and managers.

This is the first official SAV monitoring program for volunteer scientists developed by the Chesapeake Bay Program.

www.chesapeakebaysavwatchers.com





at Piscataway Park





New app: ArcGIS Survey123



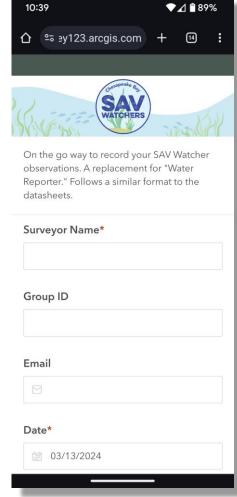
Scan the QR Code to get online access to our "Chesapeake Bay SAV Watchers" ArcGIS Survey. Users are given the option to use their browser or the ArcGIS

Survey123 App.

FIND OUR SURVEY



We would LOVE SAV Workgroup and HGIT members to participate using ArcGIS Survey123!!!

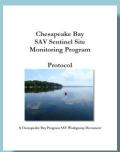




SAV Sentinel Site Program – continuing in 2024!

Sites that will be installed and monitored in 2024:

- Severn River ✓
- Susquehanna Flats✓
- Smith Island #
- Marshy Creek
- Dundee Creek ✓
- St. Mary's 🗮
- VIMS sites 🗸
- CB- NERR sites ✓



Tier III: SAV Sentinel Site Program

The SAV Sentinel Site Program is a monitoring effort conducted by Bay scientists

What is the Chesapeake Bay SAV Sentinel Site Program?

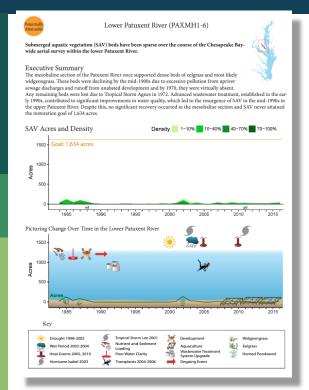
The Chesapeake Bay SAV Sentinel Site Program forms the third tier of the Chesapeake Bay SAV Monitoring effort. SAV sentinel sites are located in each of the Bay's four salinity zones (tidal fresh, oligohaline, mesohaline and polyhaline) and are monitored using a standardized, in-depth data collection protocol. These sentinel sites are a combination of existing, long-term sites and new sites where Bay scientists monitor changes in SAV habitat characteristics and resilience indicators. This program is coordinated by the Bay Program's <u>SAV Workgroup</u>. If you are interested in adopting and managing an SAV Sentinel Site, contact the program coordinator at brooke landry@maryland.gov.

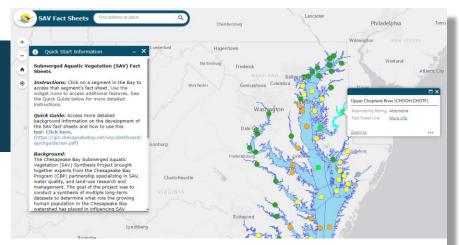


https://www.chesapeakebay.net/what/programs/monitoring/sav-monitoring-program



SAV Data Dashboard is getting updated!





The SAV Data Dashboard will:

- Combine current module and factsheets in one Dashboard
- Go back to 92 Segment scheme instead of 64
- Pin the 64 Fact sheets to appropriate segment
- Link to historical data where available
- Link to contributing landuse/drainage areas (NPSS); land river segments that directly drain that TMDL segment
- Include a loads layer and visualization of loading increases and SAV
- Link to 3 Tiers of SAV Monitoring efforts
- UPDATE on plans at Nov. 13th SAV Workgroup Meeting

Data Dashboard: https://gis.chesapeakebay.net/wdd

2024COASTAL & ESTUAR NE SUMMIT HOSTED BY RESTORE AMERICA'S ESTUARIES October 6-10, 2024 Washington, D.C. Region

https://estuaries.org/2024-rae-summit/

SAV Session @ 8:30 - 10 am on Wednesday, October 9th, 2024

This dedicated session aims to explore and discuss the significance, challenges, and innovative approaches related to SAV restoration and management within the broader context of many of the Coastal and Estuarine Summit's focus areas and will explore how management and restoration communities within the Chesapeake Bay and beyond work to protect and restore SAV, offering transferable lessons for coastal communities nationwide.

Becky Golden, Marine Habitat Resource Specialist at NOAA Fisheries, and Vice-Chair of the Chesapeake Bay Program's SAV Workgroup will serve as the session lead.

Speakers:

- Brooke Landry will discuss the decades-long effort to restore Chesapeake Bay SAV, progress made, and continuing challenges.
- Victoria Hill will present the use of high-resolution satellite imagery for SAV and carbon storage assessments and the potential of automation and workflows to streamline the process.
- Bob Murphy will discuss best management practices (BMPs) and solutions development for protecting SAV locally given changing hydrologic conditions.
- Elle Bassett will discuss the role of community volunteers in SAV monitoring and restoration as a means of impactful outreach, stewardship development, and data collection.
- Elizabeth Lacey will discuss communities of practice and the importance of collaboration in SAV protection and restoration from the regional to global scale.

East Coast SAV Collaborative

Co-chairs:
Brooke Landry, Md DNR
Jessie Jarvis, UNCW
Elizabeth Lacey, Stockton U.

The goal for this collaborative is to bring together experts in SAV research and management from each of the U.S. East Coast states from NC to ME to share ideas and information, provide training and resources, and collaborate on efforts that bring actionable science to the forefront of our SAV management strategies.



Upcoming East Coast SAV Collaborative Meetings:

- **SAV** and Living Shorelines: October 30th, 9am-Noon
- www.eastcoastsavcollaborative.com

SAV Mitigation and Monitoring:

Recommendations Development Workshop

The goal for this workshop will be to develop recommendations from the SAV Workgroup for regulatory and permitting agencies to refer to when making SAV Mitigation and Monitoring requirement decisions in response to SAV impacts.

Venue: Maryland Department of the Environment

- October 22nd, 10am 4pm
- Participants will include SAV Workgroup members, regulatory agency staff, and other interested parties.
- Let me know if you'd like to participate and I'll add you to the calendar invite.

Legislative SAV Updates

Number/ Chapter (Cross File) Total: 5	Title	Primary Sponsor	Status	Original House Committee(s) and Hearing Dates	Opposite House Committee(s) and Hearing Dates
HB0109 / CH0083 (SB0281 / CH0084)	Natural Resources - Submerged Aquatic Vegetation - Alteration or Removal Requirements	Chair, Environment and Transportation Committee	Approved by the Governor - Chapter 83	Environment and Transportation 1/31/2024 - 2:30 p.m.	Education, Energy, and the Environment
HB0807 / CH0512 (SB1140)	Natural Resources – Submerged Aquatic Vegetation Surveys	Delegate Stein	Approved by the Governor - Chapter 512	Environment and Transportation 2/21/2024 - 1:00 p.m.	Education, Energy, and the Environment 3/26/2024 - 1:00 p.m.

HB0109 in a nutshell: amends COMAR 4-213. Reduces allowable width of removal for navigation at piers and docks from 60' to 20' and requires notification to DNR. Effective Oct. 1, 2024.

HB0807 in a nutshell: SAV surveys besides the VIMS aerial survey can now be used to inform SAV protection zone placement AT THE DISCRETION OF DNR. Effective June 1, 2024.

SAV Workgroup Summer 2024 QUARTERLY MEETING Chesapeake Bay Program



Questions?