

FALL QUARTERLY MEETING – October 18th, 2023

Chesapeake Bay Program



SAV Workgroup MStrat and L&A Table Review

*Brooke Landry
Maryland DNR and
Chair, SAV Workgroup*



Water stargrass (*Heteranthera dubia*) in the clear waters of the upper Potomac River, Maryland on July 28th, 2015. (Photo by Brooke Landry/Maryland Department of Natural Resources)

I. Introduction

Submerged aquatic vegetation (SAV), or underwater grasses, provide significant benefits to aquatic life and serve critical functions in the Chesapeake Bay ecosystem. Underwater grasses provide food, habitat and nursery grounds for a number of commercially and ecologically important finfish and shellfish, such as striped bass and blue crabs, and migratory waterfowl. They reduce erosion by slowing currents and softening waves, anchor bottom sediments and help keep the water clear by absorbing nutrients and trapping sediments. Through photosynthesis, underwater grasses act as a carbon sink by taking in carbon dioxide. This contributes to the reduction of greenhouse gas emissions and reduces the potential for climate change impacts. Likewise, underwater grasses also produce oxygen, which helps sustain other aquatic life. Increasing the abundance of underwater grasses in the Bay and its rivers will dramatically improve the entire Bay ecosystem.

I. Introduction

II. Goal, Outcome, and Baseline

III. Participating Partners

IV. Factors Influencing Success

1. Habitat Condition and Availability
2. Protection of Existing and Recovering SAV
3. SAV Restoration Potential and Activity
4. SAV Research and Monitoring
5. Public Perception, Knowledge, and Engagement

V. Current Efforts and Gaps

1. Habitat Condition and Availability
2. Protection of Existing and Recovering SAV
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4. SAV Research and Monitoring
5. Public Perception, Knowledge, and Engagement

VI. Management Approaches

1. Support Efforts to Conserve and Restore Current and Future SAV Habitat and Habitat Conditions
2. Protect Existing and Recovering SAV
3. Restore SAV
4. Enhance SAV Research and Monitoring
5. Enhance Community Involvement, Education and Outreach

VII. Monitoring Progress

VIII. Assessing Progress

IX. Adaptive Management

X. Biennial Workplan

Extra: Lessons Learned

X. Biennial Workplan

The SAV Workgroup develops a biennial workplan to support the SAV Management Strategy. The workplan is revised every two years and includes the following information:

- Each key action.
- Timeline for the action.
- Expected outcome.
- Partners responsible for each action.



Logic and Action Plan: Post-Quarterly Progress Meeting

Submerged Aquatic Vegetation – 2022-2023

Long-term Target: Achieve and sustain the ultimate outcome of 185,000 acres of SAV Bay-wide; 130,000 acres by 2025

Two-year Target: To reach our 2025 goal of 130,000 acres, baywide SAV should increase by 16,000 acres per year. By 2023, we hope to achieve 98,000 acres of SAV, but a short-term target is not officially defined.

Factor	Current Efforts	Gap	Actions	Metrics	Expected Response and Application	Learn/Adapt
<i>What is impacting our ability to achieve our outcome?</i>	<i>What current efforts are addressing this factor?</i>	<i>What further efforts or information are needed to fully address this factor?</i>	<i>What actions are essential (to help fill this gap) to achieve our outcome?</i>	<i>What will we measure or observe to determine success?</i>	<i>How and when do we expect these actions to address the gap?</i>	<i>What did we learn from taking this action? How will we learn?</i>
Factor 1. Habitat Condition and Availability: SAV requires suitable water quality and clarity to recover and thrive as well as suitable shallow-water habitat in which to expand.	Effort 1.1 The Bay TMDL was established to limit the amount of N, P and TSS entering the Chesapeake Bay. Reductions in N, P and TSS improve water clarity, which allows SAV to recover.	Gap 1.1 Although SAV throughout the Bay has been shown to respond to improvements in water quality, it is also susceptible to degradation of water quality, particularly when impacted by multiple stressors, which we observed	Action 1.1a [Support WQ GIT in their efforts to improve water quality through the Bay TMDL and achieve water clarity/SAV standards in areas designated for SAV use.]	Metric 1.1a Acres of SAV mapped (Bay-wide aerial survey)	Response 1.1a Further improvements in water clarity will greatly affect the ability of SAV populations in the Bay to gain or maintain resilience against climate stressors; benefits of improved water	

Updated March 9, 2022

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Logic Table

VI. Management Approaches

Actions to support each Management Approach

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...repeats for each of the five
Factors Influencing Success

Work/Action Plan

VI. Management Approaches

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2. Protect Existing and Recovering SAV
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SAV Workplan/ACTIONS – 2022-2023					
Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
Management Approach 1: Support efforts to conserve and restore current and future SAV habitat and SAV habitat conditions					
1.1a	Support WQ GIT in their efforts to improve water quality through the Bay TMDL and achieve water clarity/SAV standards in areas designated for SAV use.	a. WQ Management Action 1: Enhance monitoring	Bay States, Water Quality GIT, SAV Workgroup	Chesapeake Bay	By 2025
1.1b	Encourage/promote the use of BMPs within local planning efforts that benefit SAV persistence and recovery: wastewater treatment plant upgrades, stormwater runoff improvements, riparian buffers, etc.	a. Promote the use of the SAV Fact Sheets developed by the SAV Synthesis Team and published on the CBP Data Dashboard .	SAV Workgroup, Communications Workgroup, LGAC, Local Leadership Workgroup	Chesapeake Bay watershed	2022, onward
		b. Promote use of " SAV: Principles for Phase III Watershed Implementation Plans " fact sheet.	SAV Workgroup, Communications Workgroup, LGAC, Local Leadership Workgroup	Chesapeake Bay watershed	2022, onward
1.1c	Determine the local effect of flow/stormwater runoff on SAV density and acreage and options for targeting BMPs that would protect priority SAV areas. This action was specifically recommended by the Management Board.	a. Targeted GIS exercise to explore areas of high flow and SAV acreage/density impacts.	SAV Workgroup, CBP Modeling Team, BMP experts	Chesapeake Bay and watershed	2022-2023
		b. Review land-use in areas where flow directly impacts SAV; explore BMP options for those areas.			

...repeats for each of the five Management Approaches

Next Up: Action Plan Review

**NO ACTION
TAKEN**

**ONGOING/
IN PROGRESS**

COMPLETE



SAV Workplan/ACTIONS – 2022-2023					
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		b. Promote use of "SAV: Principles for Phase III Watershed Implementation Plans" fact sheet.	SAV Workgroup, Communications Workgroup, LGAC, Local Leadership Workgroup	Chesapeake Bay watershed	2022, onward
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		b. Review land-use in areas where flow directly impacts SAV; explore BMP options for those areas.			



Brooke Landry
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Continuously ongoing, this is not an action that will ever be complete.



Brooke Landry
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Continuously ongoing, this is not an action that will ever be complete.



Brooke Landry
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This is a currently funded GIT project contracted to Tetra Tech for completion in 2025. IN PROGRESS.

SAV Workplan/ACTIONS – 2022-2023					
Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
1.1d	Explore the potential for co-locating land-based BMPs, oyster/mussel restoration efforts and SAV restoration efforts. This action was specifically recommended by the Management Board.	a. Work with appropriate CBP teams to explore options and propose potential pilot study.	SAV Workgroup, CBP Modeling Team, BMP experts, Fish GIT	Chesapeake Bay and watershed	2022-2023
1.2a	Evaluate the potential for SAV to reach restoration targets and provide relevant ecosystem services in the face of climate change by completing and publishing the results of the GIT-funded SAV/Climate Modeling Project.	a. Complete GIT-funded SAV/Climate Modeling Project, review and disseminate results and other project products	SAV Workgroup members, STAR, Climate Resiliency Workgroup, VIMS, SERC	Chesapeake Bay	2022-2023
1.2b	Evaluate the potential for SAV to reach restoration targets and provide relevant ecosystem services in the face of rising temperatures by holding the STAC workshop on rising temperatures in the Chesapeake Bay and by completing and publishing the workshop report and management recommendations.	a. Complete STAC rising temp workshop, assist with report, review and disseminate results, reports and recommendations.	SAV Workgroup members, STAR, Climate Resiliency Workgroup.	Chesapeake Bay	2022-2023



BL
Brooke Landry
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This is a COMPLETED GIT-funded project.



BL
Brooke Landry
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This STAC Workshop is COMPLETE and being disseminated broadly by project leads.

SAV Workplan/ACTIONS – 2022-2023					
Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
1.2c	Implement the SAV Sentinel Site Program throughout the Bay to more effectively evaluate the impacts of climate stressors on the Bay's SAV populations. See also Management Approach 4, Action 4.4	a. Complete SAV Sentinel Site Monitoring Protocol	SAV Workgroup	Chesapeake Bay	2022
		b. Publish "SAV Monitoring" Web Pages on Chesapeakebay.net	SAV Workgroup, CBP Web Team, CBP Comms	Chesapeake Bay	2022
		c. Recruit SAV Sentinel Site Adopters	SAV Workgroup	Chesapeake Bay	2022
		d. Implement and maintain Program	SAV Workgroup, Site adopters and program partners	Chesapeake Bay	2022, onward
		e. Identify long-term funding options for Program	SAV Workgroup, Site adopters and program partners	Chesapeake Bay	2022, onward
1.3a	Gain consensus among Bay Program workgroups, GITs and partners on shallow-water use conflict discussion purpose and end-goal.	a. Meet with CBP workgroups, GITs and partners that have expressed interest in topic to gain consensus on discussion purpose and end-goals	SAV Workgroup, Fish GIT, HGIT	Chesapeake Bay	2022
1.3b	Create a structured decision matrix/assessment protocol to evaluate shallow-water habitat trade-offs.	b. Work with involved partners to create a structured decision matrix for shallow water use assessment and decision making	SAV Workgroup, Fish GIT, HGIT	Chesapeake Bay	2023



Brooke Landry



The SAV Sentinel Site program was implemented in 2023 at a reduced number of sites than anticipated. The protocol has been developed with tiers of methodology dependent on funding.

Reply



Brooke Landry



Some progress has been made on this but efforts generally stalled because it appeared the HGIT was going to complete the effort. HGIT did NOT receive funding necessary for workshop/project.

Reply



Brooke Landry



Did NOT receive GIT funding so did not pursue.

Reply

SAV Workplan/ACTIONS – 2022-2023

Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
Management Approach 2: Protect existing and recovering SAV					
2.1a	Work with jurisdictional leadership in Maryland, Virginia and D.C. to review and implement appropriate recommendations from “Existing Chesapeake Bay Watershed Statutes and Regulations Affecting Submerged Aquatic Vegetation” a GIT-funded project report produced in 2019 by the CLA at the request of the CBP and SAV Workgroup.	a. Coordinate with jurisdictional leadership to initiate discussions with appropriate state representatives	SAV Workgroup, jurisdictional leadership	Chesapeake Bay watershed	2022
		b. Coordinate with appropriate jurisdictional representatives to review and discuss recommendations from CLA SAV Regulatory Report	SAV Workgroup, jurisdictional leadership	Chesapeake Bay watershed	2022
		c. Determine which recommendations for regulatory updates will be pursued and devise plan to do so.	SAV Workgroup, state leadership	Chesapeake Bay watershed	2023
2.2a	Encourage local, state and federal partners in Virginia, DC and Maryland to manage water chestnut (<i>Trapa natans</i> and <i>T. bispinosa</i>) by developing and implementing plans to reduce or eradicate it in Chesapeake Bay and other local water bodies.	a. Annual efforts to manage or eradicate water chestnut; bushels removed from waterways	SAV Workgroup, MD, VA, and DC jurisdictional agencies, local watershed groups	Chesapeake Bay find	2022, onward



BL

Brooke Landry



Becky's been leading this charge for the last year, with Gina's guidance, to work with state and federal regulatory agencies to determine course forward for improving regulations that protect

Reply



BL

Brooke Landry



Nancy Rybicki has been leading the charge on this in Va with assistance from DNR and riverkeepers in MD.

Reply

SAV Workplan/ACTIONS – 2022-2023

Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
Management Approach 3: Restore SAV					
3.1a.1	Continue SAV restoration efforts through direct plantings of seeds or propagules in hopes of establishing viable SAV beds where they are not recovering naturally with improvements in water quality or where diversity is low.	a. MD DNR, VIMS and other partner organizations will continue direct planting in appropriate sites in Maryland, Virginia and DC.	SAV Workgroup, MD DNR, VIMS, Watershed groups	Chesapeake Bay	2022, onward
3.1a.2	Distribute the recently completed SAV Restoration Guide and associated outreach materials among local, state and federal agencies and organizations that conduct or would like to conduct direct SAV restoration to expand SAV restoration capacity in Chesapeake Bay.	a. SAV Restoration Guide and associated outreach materials distributed to interested parties either in print or as shared link.	SAV Workgroup	Chesapeake Bay	2022
3.1b	Work with permitting agencies to ensure SAV restoration activities are permitted during appropriate growing conditions and over-harvesting from donor beds does not occur.	a. Contact appropriate permitting agencies to make them aware of the distribution of the SAV Restoration Guide and ensure appropriate review of permit applications.	SAV Workgroup	Chesapeake Bay	2022, onward
3.1c	Review potential opportunities to create a Chesapeake Bay SAV nursery or SAV nursery network that would foster necessary research for SAV aquaculture technology and	a. Continued conversation about Chesapeake Bay SAV nursery potential with interested SAV Workgroup members and review of potential opportunities; pursue	SAV Workgroup	Chesapeake Bay	2022-2023



Brooke Landry



This is on-going, but SAV restoration work was completed for this timeframe, so both IN PROGRESS and COMPLETE.

Reply



Brooke Landry



The SAV Restoration Guidance document has been broadly disseminated.

Reply



Brooke Landry



DNR oversees SAV harvesting and requires a permit for all harvesting. This is both ONGOING and COMPLETE.

Reply



Brooke Landry



Working on this now by applying for NOAA THR grant with mid-atlantic partners.

Reply

SAV Workplan/ACTIONS – 2022-2023

Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
	restoration protocols, provide space for a native SAV seed repository and produce a commercial seed supply; pursue options if possible and funding is available.	funding if available and deemed appropriate			
Management Approach 4: Enhance SAV research and monitoring					
4.1a	Identify and prioritize an updated list of SAV science and research needs, initiate workgroup efforts and/or broader partnership efforts to advance SAV research and provide support for research in the form of funding, steering committee participation, MTAG participation, letters of support for research funding, provide subject matter expert support, etc.	a. Initiate workgroup efforts to identify and prioritize an updated list of science and research needs and support broader partnership efforts to advance SAV research. Identify funding opportunities, offer letters of support, serve on MTAGs and steering committees, and otherwise provide subject matter expert support as appropriate.	SAV Workgroup	Chesapeake Bay	2022, onward
4.2a	Continue annual Bay-wide SAV Survey to track progress towards SAV restoration targets and water-clarity standards attainment.	a. Continued support of annual Bay-wide aerial SAV monitoring program that provides up to date data regarding the distribution and density of SAV in the Bay and its tributaries.	SAV Workgroup, CBP Leadership	Chesapeake Bay	2022, onward
4.2b	Work with the Bay Program partners to identify funding opportunities to support the continued exploration of satellite imagery and the development of algorithms and	a. Identification of funding to support algorithm and work flow development; algorithm and work flow development.	SAV Workgroup; STAR	Chesapeake Bay	2022-2023



Brooke Landry



This is both ONGOING and COMPLETE. We updated SAV science needs last year and will again following the SRS cycle. We have gotten several projects funded through GIT and other

Reply



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This action is ONGOING and COMPLETE for this cycle.

Reply



Brooke Landry



Funding was allocated for this during the CBP monitoring effort review; RFP for work just closed.

Reply

SAV Workplan/ACTIONS – 2022-2023

Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
	work flows to automate SAV detection and quantification.				
4-3a	Continue implementation of the SAV Watchers Program and work to identify funding opportunities to ensure the long-term stability of the SAV Watchers Program.	a. Continued implementation of Chesapeake Bay SAV Watchers Program. Recruitment of additional organizations and volunteers, certification of additional “trainers” and collection of ground survey data in additional tributaries.	SAV Workgroup; SAV Watchers Partner Organizations	Chesapeake Bay	2022, onward
		b. Identification of funding opportunities to ensure long-term stability of SAV Watchers Program	SAV Workgroup; STAR	Chesapeake Bay	2022
4-4a	Finalize SAV Sentinel Site monitoring protocol and develop an implementation plan for the SAV Sentinel Site Program that includes identification and commitment from site adopters.	a. Finalized protocol with basic and advanced monitoring options	SAV Workgroup SAV Sentinel Site Team	Chesapeake Bay	2022
		b. Implementation plan developed, site adopters identified and program implemented	SAV Workgroup SAV Sentinel Site Team	Chesapeake Bay	2022
4-4b	Identify funding opportunities to ensure the long-term stability of the SAV Sentinel Site Program.	a. Identification of funding for SAV Sentinel Site Program	SAV Workgroup	Chesapeake Bay	2022



Brooke Landry



SAV Watcher Program Implementation will be ONGOING but actions for this cycle are COMPLETE. Trainers were certified, volunteers were recruited, some funding was allocated for

Reply



Brooke Landry



The SAV Sentinel Site Program protocol has been developed, but an implementation “plan” has not been completed. Monitoring at some sites began in 2023. Both ONGOING and COMPLETE.

Reply



Brooke Landry



We attempted to get the SAV Sentinel Site Program funded during the monitoring review process, but were not successful. Other funding options have been explored but not realized. NOT

Reply

SAV Workplan/ACTIONS – 2022-2023

Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
4.5a	Complete the development and publication of the SAV Monitoring Program webpages on Chesapeakebay.net describing and supporting the CBP SAV Monitoring effort.	a. SAV Monitoring Program webpages approved and published	SAV Workgroup; CBP Comms; CBP Web team	Chesapeake Bay	2022
Management Approach 5: Enhance community involvement, education, and outreach					
5.1a	Develop a communication strategy that enhances the public's knowledge of and appreciation for SAV in Chesapeake Bay.	a. Marketing of the importance of SAV through websites, social media, informational signage at ramps, perception survey, etc. b. Population of the SAV Workgroup webpage on Chesapeakebay.net with SAV Workgroup Program information, products and relevant literature and reports.	SAV Workgroup; CBP Comms	Chesapeake Bay	2022
5.2a	Publish SAV Monitoring Program content on Chesapeakebay.net	a. Publication of content, public engagement	SAV Workgroup	Chesapeake Bay	2022
5.3a	Work with the CBP Comms team to identify funding and support to implement the strategy and print the materials. Work with other CBP groups that have also developed CBSM strategies and materials.	a. Identification of funding to support printing of materials and implementation of CBSM strategy.	SAV Workgroup; CBP Comms	Chesapeake Bay	2022
5.4a	Continue implementation of the SAV Watchers Program and work to identify funding opportunities to ensure the long-term stability of the SAV Watchers Program.	a. Continued implementation of Chesapeake Bay SAV Watchers Program. Recruitment of additional organizations and volunteers, certification of additional "trainers,"	SAV Workgroup	Chesapeake Bay	2022, onward



BL Brooke Landry ...
COMPLETED by CBP web crew.

Reply



BL Brooke Landry ...
We have not developed a communications strategy, so NOT COMPLETE, but we are publishing SAV info on the CBP website, the collab website, so ONGOING. All relevant

Reply



BL Brooke Landry ...
This is COMPLETE.

Reply



BL Brooke Landry ...
This is part of a currently funded GIT project, so is ONGOING and COMPLETE.

Reply



BL Brooke Landry ...
Described above. ONGOING and COMPLETE.

Reply

SAV Workplan/ACTIONS – 2022-2023

Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
		and collection of ground survey data in additional tributaries.			
5.5	The SAV Workgroup will convene in-person or virtually (depending on current COVID policies) quarterly with supplemental meetings with appropriate sub-groups taking place as needed to discuss priorities, share ideas for collaborations, review status updates, update the SAV Management Strategy and implement the SAV Workplan, etc. SAV Workgroup leadership and staffers will meet monthly.	a. Convene quarterly half day SAV Workgroup meetings; the winter meeting will remain a full-day all-hands meeting.	SAV Workgroup	Chesapeake Bay	2022, onward
		b. Convene monthly SAV Workgroup leadership meetings.	SAV Workgroup	Chesapeake Bay	



Brooke Landry



This is ONGOING but complete for this cycle.

October 16, 2023, 11:12 PM

Reply

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My questions to you are:

- Are you good with current lists of Factors Influencing Success and Management Approaches?
- Do you want to recommend any updates to the Factors Influencing Success or Management Approaches?
- Do you want to participate in the updating process?

https://jamboard.google.com/d/1fzoDPAo9URFaL-s3475EiFMY0mEwA4p5TC2_zQiQli8/edit?usp=sharing



Questions?