SRS Review – March 2024 Chesapeake Bay Program



Student Outcome

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Student Environmental Literacy is Essential to Bay Protection & Restoration

- **Building Lifelong Habits:** Instills sustainable habits, behaviors, and values in students, which can reduce their environmental impact over time.
- Reinforcing Critical Thinking Skills: Fosters critical thinking skills by encouraging students to analyze complex environmental issues, evaluate evidence, and consider multiple perspectives, empowering them to make informed decisions and engage in constructive dialogue.
- **Empowering Future Leaders:** Cultivates a new generation of leaders and environmentally active community members capable of driving positive change and shaping a more sustainable future.

Environmental Literacy is playing the long game. It is ESSENTIAL to the long-term sustainability of our effort.

Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...



Environmental Literacy Goal

Student Outcome:

Continually increase students' age -appropriate understanding of the watershed through participation in teacher-supported, meaningful watershed educational experiences and rigorous, inquiry -based instruction, with a target of at least one meaningful watershed educational experience in elementary, middle and high school



What is a MWEE?



- · Hands-on, inquiry based learning
- Four Essential Elements:
 - Issue Definition
 - Outdoor Field Experiences
 - Synthesis and Conclusions
 - Environmental Action Projects
- Underpinned by four supporting practices:
 - Teacher Facilitation
 - Learning Integration
 - Sustained Experience
 - Local Context

Our "Inputs": Management Approaches

Direct

- Increasing and improving teaching resources
- Supporting effective MWEE teacher professional development
- Building school administrator support for MWEEs
- Creating and showcasing model MWEEs

Indirect

- Launching state networks
- Encouraging district environmental literacy plans
- Knitting together district and nonprofit priorities
- Increasing sustainable school efforts



Impacts of COVID on Educational System

- COVID-19 impacts are long-lasting and multi-dimensional
 - Teacher and administrator turnover is huge
 - School leadership attention is focused on impacts of COVID (learning loss, behavior issues, mental health, etc)
 - Time and resources for science and social studies reduced, focus on math and english language arts



District Preparedness: Trend over Time

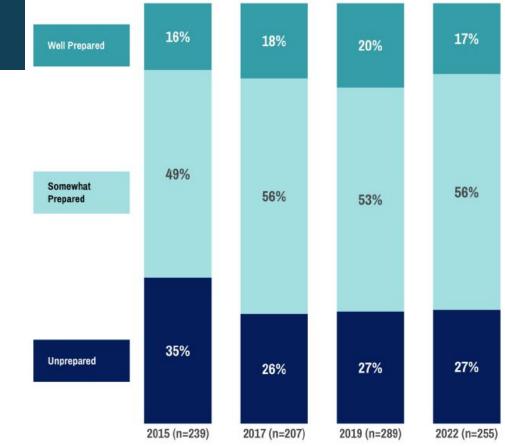




• Categorization changed, but very slight downward shift in total score (avg of 5.49 in 2019 to 5.42 in 2022)

Changes in Environmental Literacy Preparedness Over Time (2015-2022)

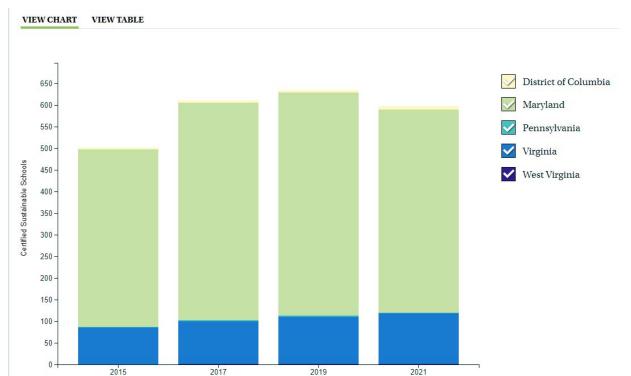
Region-wide preparedness levels in each of the ELIT years' reporting.



Sustainable Schools







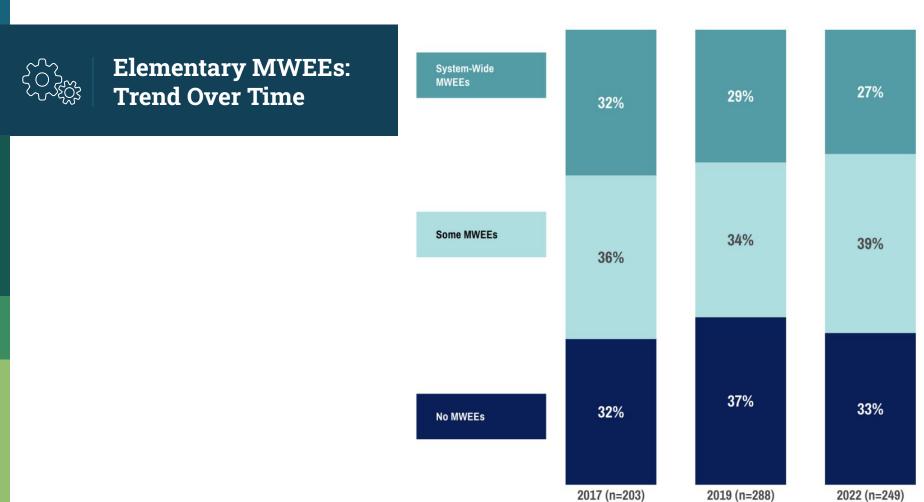


Student Indicator Changes: 2017 to 2022





- System-wide MWEEs decreased slightly at elementary and more substantially at middle school levels
- System-wide MWEEs in high school showed the greatest decline
- Suggestions being raised by community to broaden Student indicators to look beyond just MWEE implementation



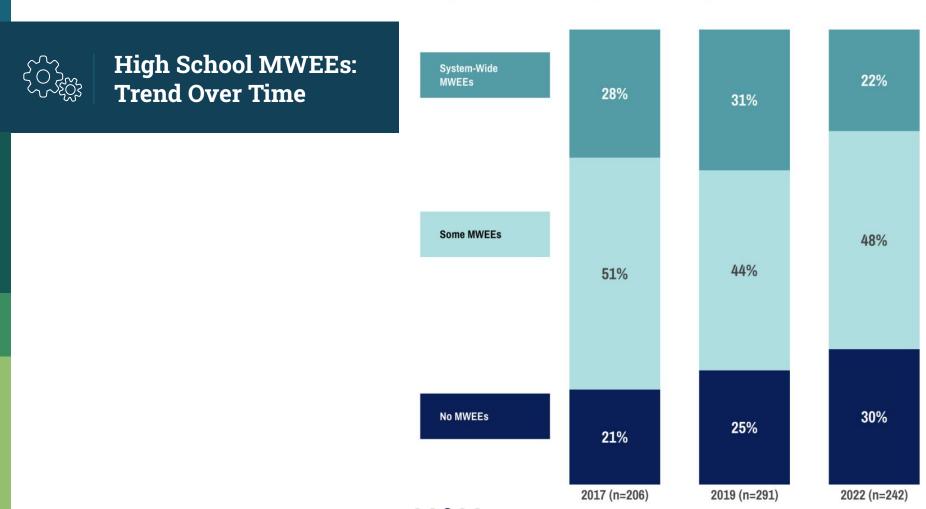




2017 (n=205)

2019 (n=288)

2022 (n=247)



The Challenges

- COVID-19 impacts are long-lasting and multi-dimensional
- EE not rising to the top of district priorities
 - Math and English are drivers
 - Science and Social Studies are secondary
- Capacity at all levels
- Insufficient State and Federal funding for environmental education



Adapt

How are we reorienting to address the challenges?



Changes to our "Inputs"

- COVID → Increasing connections to workforce development and social-emotional learning
- District Priorities → Embedding MWEEs in state standards
 - PA STEELs & MD EL Framework in place
 - VA Science SOL revision in process
- Capacity → Supporting state efforts to establish regional hubs
 - Increasing work in areas with no MWEEs or no reporting
 - Identifying leaders in each district
 - Reinforcing community partnerships
 - Ensuring EE providers are implementing programs that are supportive of formal education priorities (Towson GIT project)

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Discussion



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