QUARTERLY PROGRESS MEETING – [May, 2020] Chesapeake Bay Program



Student Outcome

Tom Ackerman Chesapeake Bay Foundation Co-Chair Education Workgroup Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...



Goal: Environmental Literacy

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

Management Approaches

- Management Approach #1: Increase professional development opportunities for educators (pre-service, teachers, and non-formal) to support the development and implementation of MWEEs.
- Management Approach #2: Increase the visibility and adoption of MWEEs as an educational best practice.





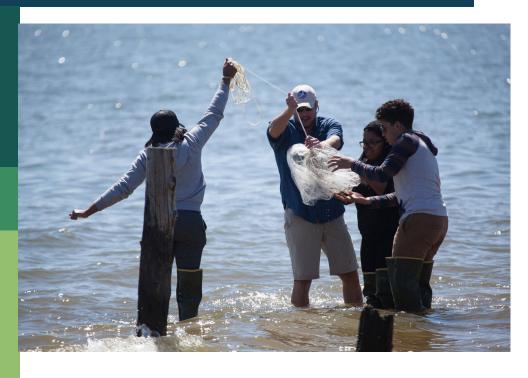
What is a MWEE?



- Students participate in robust unit of study designed to increase understanding and stewardship of the Chesapeake Bay and its local watersheds
- Four essential elements:
 - Issue definition
 - Outdoor field investigations
 - Action Projects
 - Synthesis and Conclusions
- Underpinned by four supporting practices



How You Can Help



- MWEE recognition and implementation is growing
- We need to reach more diverse and underserved districts
- This outcome is heavily influenced by local policies
- Education and Natural Resource leaders planning together have great potential to advance this work
- COVID-19 will have long range consequences on MWEE implementation



Learn

What have we learned in the last two years?



Successes and Challenges

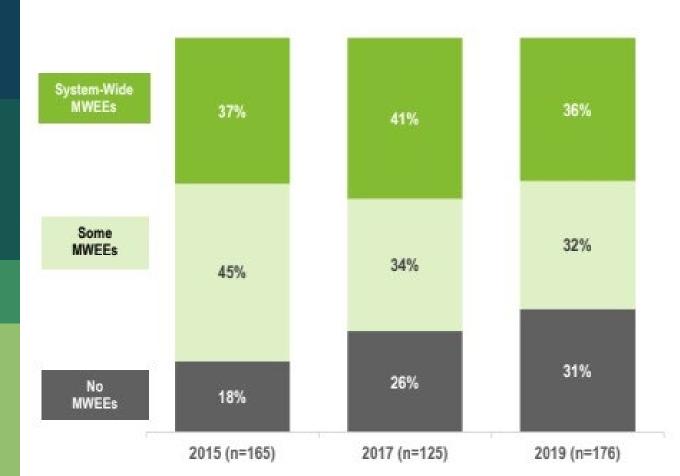
What Worked? What Didn't? Professional Development 2018 Management Board Request to convene leaders Distribution **Professional Development Interdisciplinary Connections** Credits to Incentivize Trainings Lack of Administrator Buy-In **Development of New Training** Barriers to Public Lands Resources



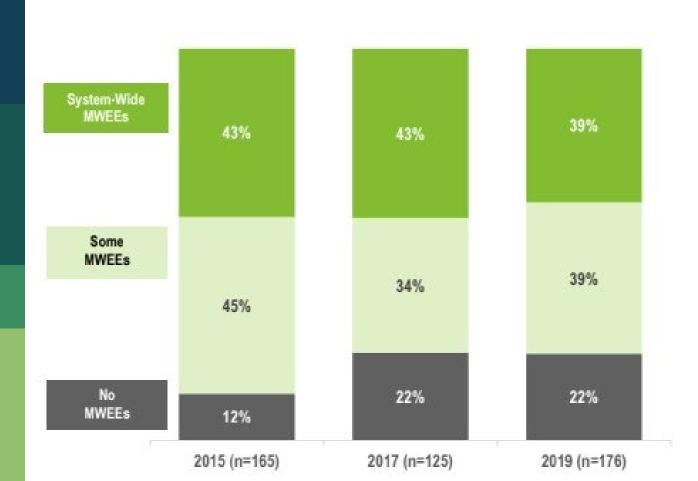
What is our Expected and Actual Progress?

- There is no numeric target to measure the student outcome.
- The following graphs show a breakdown of MWEE Availability among participating Local Education Agencies (LEAs) by gradeband over time.
- The data is inhibited by a lack of participation in the Environmental Literacy Indicator Tool (ELIT) Survey. The graphs pulled from Chesapeake Progress show the relative proportion of LEAs that reported in 2017. Currently working to update graphs with 2019 data before MB meeting.

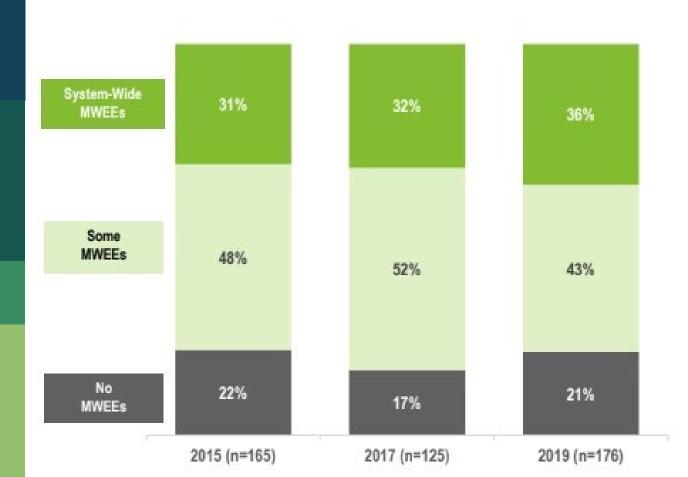
Changes in MWEE Availability in the Watershed: Elementary Grades (2015-2019)



Changes in MWEE Availability in the Watershed: Middle School Grades (2015-2019)

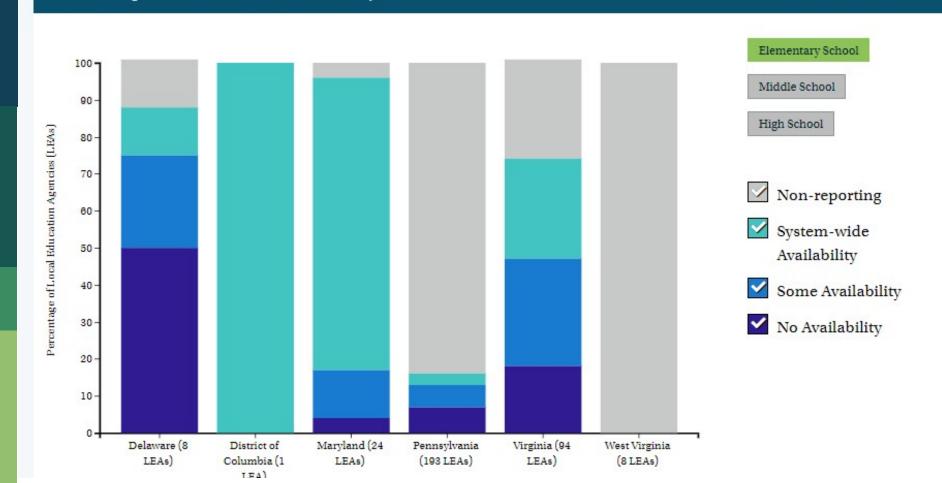


Changes in MWEE Availability in the Watershed: High School Grades (2015-2019)



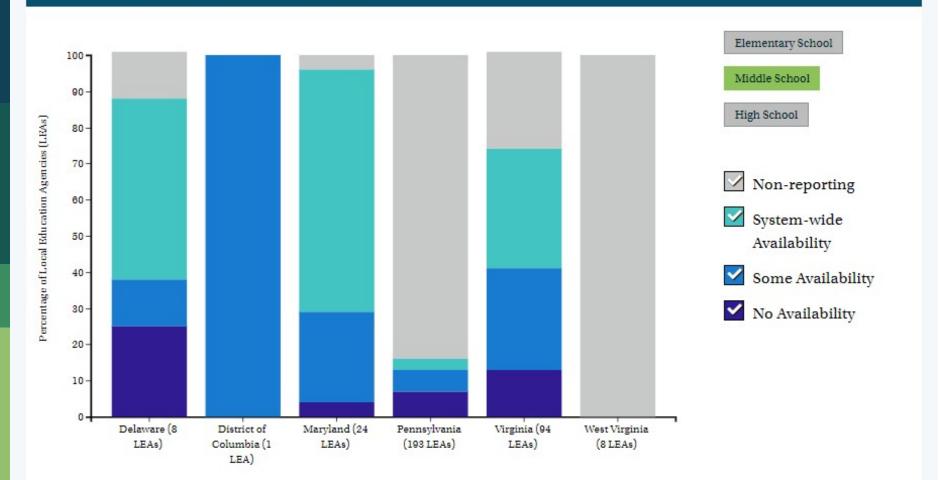
MWEE Availability in Watershed Jurisdictions (2017)

Local Education Agencies' Self-Identified Rate of MWEE Availability



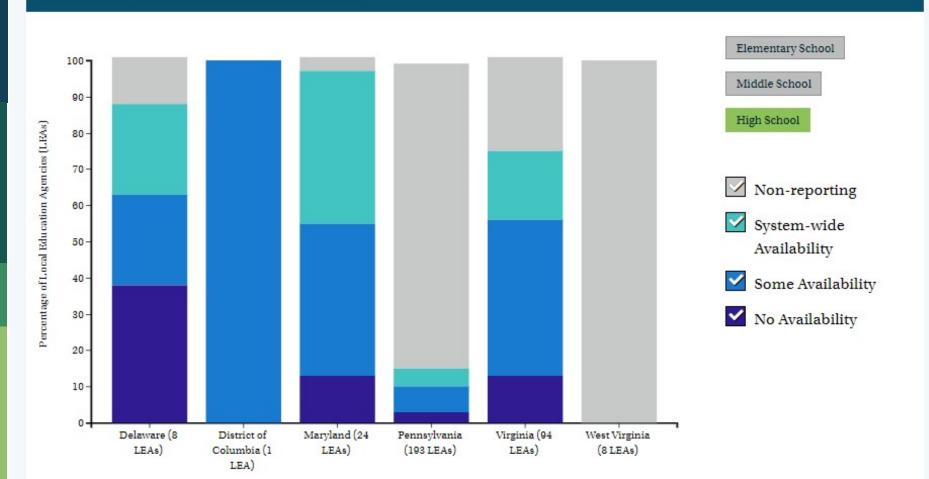
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MWEE Availability in Watershed Jurisdictions (2017)

Local Education Agencies' Self-Identified Rate of MWEE Availability





On the Horizon

- State and federal education funding
 - Growing specific sources
 - Identifying environmental literacy as an "allowable use" for existing funding (Education and Environmental)
 - Organizing expertise and funding to engage under-resourced districts
- COVID-19
 - MWEEs can't be fully delivered via distance learning
 - Field trip policies when school returns
 - MWEEs can be conducted on the school yard



Adapt

How does all of this impact our work?



Based on what we learned, we plan to ...



- Build connections between education and natural resource leaders
- Continue to promote MWEEs as a best practice regionally and nationally
- Identify new funding sources for underserved districts
- Encourage MWEE PDs in pre-service and in-service teacher trainings
- Adapt to post-pandemic school system policies



Help

How can the Management Board lead the Program to adapt?



Help Needed



- Promote Administrator buy in at the school district and school building level.
- Increase in-service and pre-service teacher professional development in MWEE implementation.
- Build strategic statewide efforts to reduce barriers to schools using public lands for investigations and action projects.

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Discussion



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