Environmental Literacy in COG Districts

5.19.23







Having the knowledge, skills, and disposition to solve problems and resolve issues individually and collectively in a way that creates and maintains environmental and social well-being.

ENVIRONMENTAL LITERACY GOAL

Enable students in the region to graduate with the knowledge and skills to act responsibly to protect and restore their local watershed



STUDFNTS - - -

Hands-on student experiences (MWEEs)

SCHOOLS • • •

Sustainable school buildings, grounds, & operations

PLANNING • • •

Supportive policies and metrics at state & district level

OUR CORE PRINCIPLES

SYSTEMIC

Reaches the entire student population in one or more grades within a school district

EQUITABLE

Accessible to all students with thoughtful differentiation

SUSTAINABLE

Embedded into school district curriculum and supported with district resources

SCHOOL DISTRICT LEADERSHIP IS ESSENTIAL!

IMPORTANT COMPONENTS TO INCLUDE IN EL PLANNING

MWEES
SUSTAINABLE SCHOOLS
CLIMATE
WORKFORCE



OTHER STEWARDSHIP GOALS

STEWARDSHIP GOAL

Increase the number and diversity of local stewards and local governments for conservation and restoration activities.

PUBLIC ACCESS GOAL Expand public access to the Bay and its tributaries.

LAND CONSERVATION GOAL Conserve treasured landscapes.



WHAT DOES THIS LOOK LIKE?

PG COUNTY PUBLIC SCHOOLS

ARLINGTON PUBLIC SCHOOLS



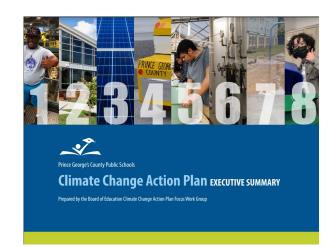
PGCPS CLIMATE CHANGE ACTION PLAN











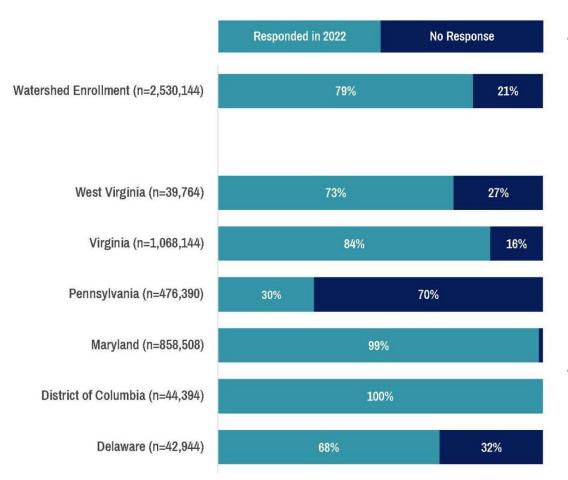


HOW IS IT GOING?

ENVIRONMENTAL LITERACY INDICATORS



ELIT Response Rate: Percentage of Total Enrolled Students Represented by LEAs



Responses from:

- District of Columbia
- Maryland
 - Charles County
 - Frederick County
 - Montgomery County
 - Prince George's County

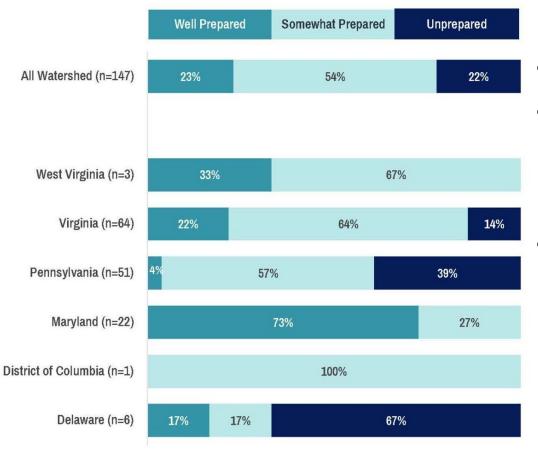
Virginia

- Arlington County
- Fairfax County
- Loudoun County
- Prince William County
- Manassas Park City

No Responses from:

- Alexandria City Public Schools
- City of Fairfax Schools
- Manassas City Public Schools
- Falls Church City Public Schools

Self-Reported Levels of Preparedness to Implement Environmental Education



- District of Columbia: Somewhat Prepared
- Maryland
 - Charles County: Well Prepared
 - Frederick County: Somewhat Prepared
 - Montgomery County: Somewhat Prepared
 - Prince George's County: Well Prepared
- Virginia
 - Arlington County: Well Prepared
 - Fairfax County: Well Prepared
 - Loudoun County: Somewhat Prepared
 - Prince William County: Somewhat Prepared
 - Manassas Park City: Somewhat Prepared

Elements Fully or Partially in Place Comparing Strategies between Levels of Preparedness

Strategies at Well-Prepared LEAs (n=34) Strategies at Somewhat Prepared LEAs (n=80) Strategies at Unprepared LEAs (n=33) Partially in Place Fully in Place Established leader for EE 100% Established leader for EE 34% Established leader for EE 0% Established community Established community Established community 42% 3% 97% 63% 35% partnerships for EE partnerships for EE partnerships for EE Plan to ensure MWEEs at Plan to ensure MWEEs at all Plan to ensure MWEEs at 26% 10% 70% 12% all levels all levels levels Regular communication Regular communication Regular communication 68% 36% 86% 5% among staff among staff among staff Support system for Support system for Support system for 56% 44% 24% 84% 4% high quality EE PD high quality EE PD high quality EE PD Integrated program across Integrated program across Integrated program across 59% 41% 90% 10% 97% curricular areas curricular areas curricular areas

Changes in MWEE Availability in the Watershed: Elementary Grades (2015-2022)



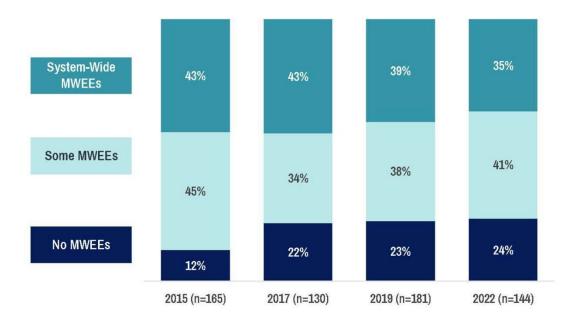
Comparing Paired 2019 and 2022 Data

Changes in availability of elementary-level MWEEs within individual LEAs for which we have paired data. (n=115)



- District of Columbia: System-wide
- Maryland
 - o Charles County: System-wide
 - Frederick County: System-wide
 - Montgomery County: System-wide
 - o Prince George's County: System-wide
- Virginia
 - Arlington County: System-wide
 - o Fairfax County: No evidence
 - Loudoun County: Some classes
 - Prince William County: Some classes
 - Manassas Park City: Some classes

Changes in MWEE Availability in the Watershed: Middle School Grades (2015-2022)



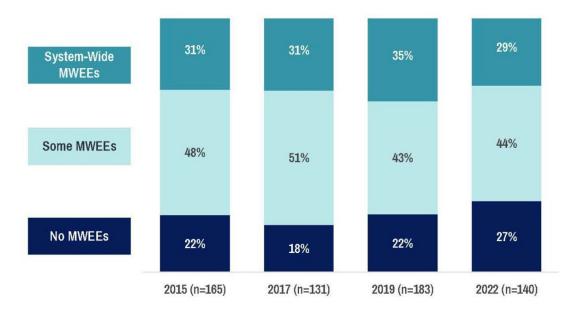
Comparing Paired 2019 and 2022 Data

Changes in availability of middle school-level MWEEs within individual LEAs for which we have paired data. (n=115)



- District of Columbia: Some classes
- Maryland
 - Charles County: Some classes
 - Frederick County: System-wide
 - Montgomery County: System-wide
 - Prince George's County: System-wide
- Virginia
 - Arlington County: System-wide
 - Fairfax County: System-wide
 - Loudoun County: Some classes
 - Prince William County: Some classes
 - Manassas Park City: Some classes

Changes in MWEE Availability in the Watershed: High School Grades (2015-2022)



Comparing Paired 2017/19 and 2022 Data

Changes in availability of high school-level MWEEs within individual LEAs for which we have paired data. (n=112)



- District of Columbia: Some classes
- Maryland
 - Charles County: Some classes
 - Frederick County: System-wide
 - Montgomery County: System-wide
 - Prince George's County: Some classes
- Virginia
 - Arlington County: System-wide
 - o Fairfax County: No evidence
 - Loudoun County: Some classes
 - Prince William County: Some classes
 - Manassas Park City: Some classes

Greatest Needs for Support: State-by-State The seven highest-rated need statements within each jurisdiction

Maryland (n=22)	Median rating	District of Columbia (n=1)	Median rating
Funding for transportation	7	Funding for PD	7
Funding for PD	6	Funding for programs / supplies	7
PD to facilitate student action	5.5	Funding for transportation	7
Funding for programs / supplies	5	PD to use outdoor learning spaces	7
Curriculum / standards alignment	5	Central Office support	5
PD for student investigations	5	Instructional tech for investigations	5
PD to use outdoor learning spaces	5	Partnerships with EE providers	5

Virginia (n=51)	Median rating
Funding for programs / supplies	6
PD to facilitate outdoor field exp.	6
PD to use outdoor learning spaces	6
PD for student investigations	5
PD to facilitate student action	5
Funding for PD	5
Funding for transportation	5

WHAT CAN YOU DO TO HELP?



CONNECT WITH YOUR DISTRICT EL CONTACT!

- District of Columbia: *Grace Manubay (grace.manubay@dc.gov)*
- Maryland
 - Charles County: Tim Emhoff (temhoff@ccboe.com)
 - Frederick County: Kim Day (kim.day@fcps.org)
 - Montgomery County: Lee Derby (Lee_F_Derby@mcpsmd.org)
 - Prince George's County: Donald Belle (donald.belle@pgcps.org)
- Virginia
 - Arlington County: Dat Le (dat.le@apsva.us)
 - Fairfax County: *Elaine Tholen (elaine@tholen.us)*
 - Loudoun County: Michael Barancewicz (Michael.Barancewicz@lcps.org)
 - Prince William County: *Melinda Landry (landryma@pwcs.edu)*
 - Manassas Park City: Pam Kalso (pam.kalso@mpark.net)

TALK WITH THEM ABOUT...

- Environmental Improvements @ Schools
 - Energy Savings
 - Water Quality Improvements (WIPs/TMDLs)
 - Nearby Nature Infrastructure
- Workforce Development
- Climate Action Plans for Jurisdiction
- Barriers to Public Access for Schools
- Student Leadership/Engagement Opportunities
- Upcoming Projects for Students to Study and/or Help Implement
- Budget Requirements
 - Transportation
 - Outdoor Classrooms
 - Teacher Professional Development
 - Equipment/Supplies



WHAT RESOURCES ARE AVAILABLE?



INFORMATION, RESOURCES, & TRAINING



Funding: NOAA B-WET, CBT EE, & State Programs









MWEE Guide >

MWEE Resources ∨

State Initiatives >



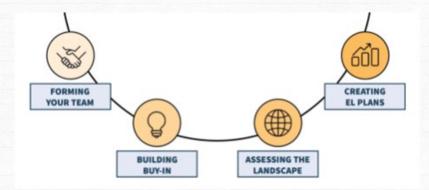
Funding Opportunities

About

District Environmental Literacy Planning Toolkit

This Toolkit provides some waypoints and important considerations for building systemic, equitable, and sustainable environmental literacy within a school district by developing and implementing an environmental literacy plan.

District environmental literacy plans can be transformational for school districts when they consider the many aspects of school life, particularly campuses (facilities and operations), curriculum, community, and culture. These efforts generally happen in a series of phases that we are calling the "phases of change," which start with forming a team and come to fruition when a district has systemic, equitable, and sustainable implementation of its plan.



District Toolkit

↑ District Environmental Literacy Planning Toolkit

Overview

The Big Vision: Systemic, Equitable, and Sustainable Environmental Literacy

- **∨** Forming a Team
- ➤ Building Buy-in and Support

Assessing the Landscape

 Creating District Environmental Literacy Plans

Implementing Environmental Literacy Plans

