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OpinionWorks

Local Leadership Workgroup
August 30, 2022

Inspiring Stewardship Behaviors:

How we used the stewardship outcome and stewardship indicator to develop a resource for local government and communities to inspire stewardship

- Stewardship Outcome
- Stewardship Survey / Indicator
- Chesapeakebehaviorchange.org
 - Step by step process
 - Resources for partitioners
- New data to be collected in 2022, opportunities for localities to acquire data
- Anne Arundel County, Maryland example
- LLWG feedback on 2022 behaviors



AFFIRMATION

necessary to achieve the Goals and Outcomes outlined herein and realize our shared Vision of a herein and realize our shared Vision of a

Stewardship Outcome As Chesapeake Bay Program Partners, we recognize the need to accelerate implementation of Increase the number and diversity of trained and mobilized

vibrant Chesapeake Bay watershed. citizen volunteers with the knowledge and skills needed to As Chesapeake Bay Program Partners, we acknowledge that this Agreement is voluntary and the availability of appropriated funds. This Agreement is not a contract or an assistance agreement also understand that this Agreement does not pre-empt, supersede or override any other law or regulation enhance the health of their local watersheds. applicable to each signatory.

We, the undersigned members of the Chesapeake Executive Council, re-affirm our commitment to support the Goals of this Agreement and to work cooperatively in its implementation. We agree to work independently and collaboratively toward the Goals and Outcomes of this Agreement and to imp specific Management Strategies to achieve them. Every citizen of this great watershed is invited to jo the Partnership, uniting as a region and embracing the actions that will lead to success.

For the Chesapeake Bay Commission

For the State of Delaware

For the District of Columbia

For the State of Maryland

For the Commonwealth of Pennsylvania

For the State of New York

For the Commonwealth of Virginia

For the State of West Virginia

For the United States of America on behalf of the Federal Government and the Federal Leadership Committee for the Chesapeake Bay:

- U.S. Environmental Protection Agency
- U.S. Department of Agriculture U.S. Department of Commerce
- U.S. Department of Delense
- U.S. Department of Homeland Security
- U.S. Department of the Interior
- U.S. Department of Transportation







OpinionWorks Credentials

- Measure perceptions, attitudes, behavior
- Surveys, focus groups, in-depth interviews
- Grounded in social science best practices

Chesapeake Bay Trust

Perceptions studies for the Trust and its grantees

William Penn Foundation for the Circuit Trails

· Assessing equitable access to trails in Greater Philadelphia

The Baltimore Sun

• Elections and issues polling since 2007

Chesapeake Bay Program

• Development of a Baywide indicator of stewardship behavior

The Recycling Partnership

• National consumer research on response to recycling initiatives

211 Maryland

• Branding and outreach related to behavioral health helpline

Virginia Coastal Zone Management Program

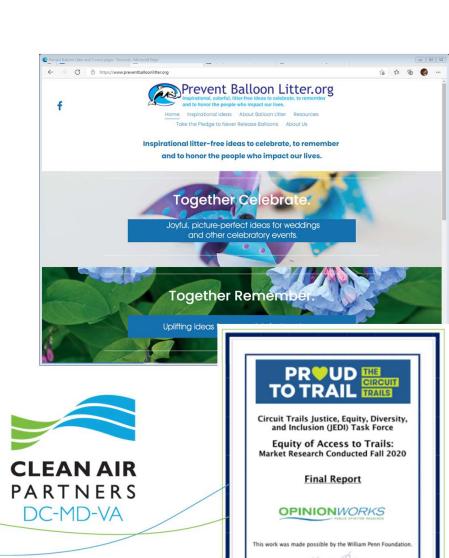
Behavior change related to marine debris

Waterfront Partnership of Baltimore

• Perceptions and visitation of Baltimore's Inner Harbor

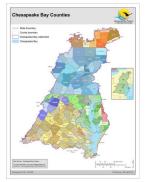
Los Angeles County, California

• Evaluation of media campaign encouraging proper disposal of batteries

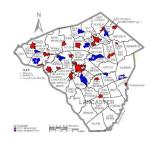


What This Survey Tool Can Do

- ✓ Measure and track Stewardship progress.
- ✓ Inform smart behavior selection for practitioners.
- ✓ Segment data by major jurisdiction, demographic.







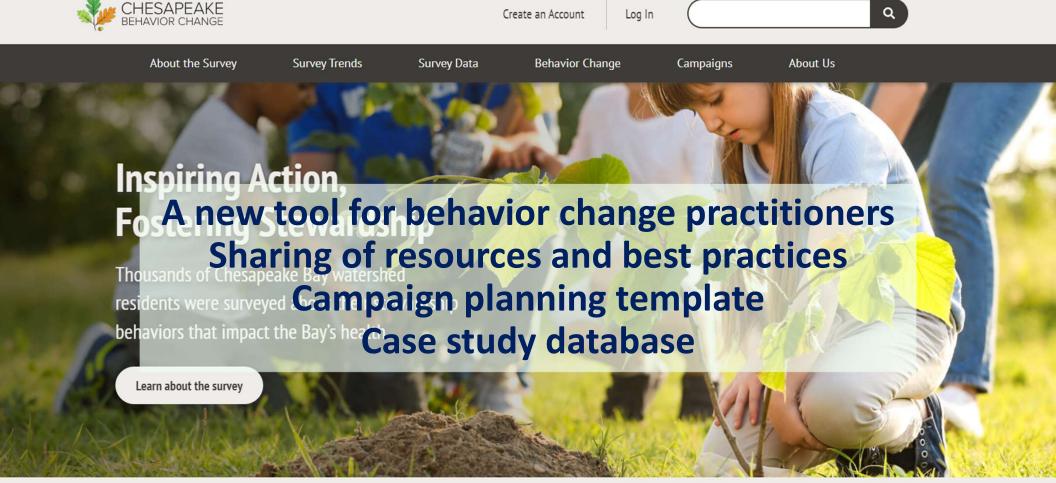
✓ Be a resource for other Bay Program priorities: Access, Diversity.

What This Survey Tool is Not

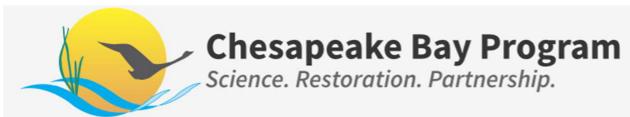
- ✓ The citizen stewardship index will NOT <u>verify</u>
 <u>implementation</u> of behaviors or practices per
 Bay Program protocols. Other tools like the
 Smart Tracker exist for this purpose.
- ✓ It will NOT answer why questions.
- ✓ It will NOT measure <u>public policy preferences</u>.
- ✓ It will not measure <u>perceptions and attitudes</u>, except those that directly drive stewardship behavior.

Log In





What Is Chesapeake Behavior Change?





Photos Courtesy Chesapeake Bay Program

Chesapeake Bay Stewardship Indicator

Stewardship Indicator

Sampling Methodology

2017 Baseline

All states statistically significant N=5,212

1,005 (±3.1%)

1,003 (±3.1%)

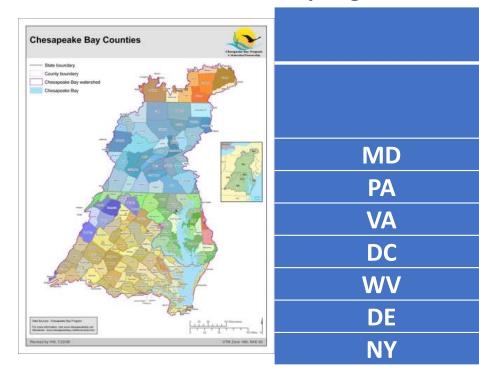
1,001 (±3.1%)

801 (±3.5%)

600 (±4.0%)

402 (±4.9%)

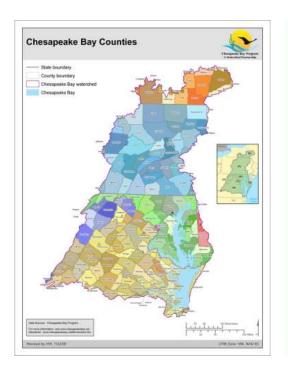
400 (±4.9%)



Fielded March – May 2017 13-minute interview Wireless and Landline Spanish language interviewing

Stewardship Indicator

2022 Tracking



New Data Collection Wave in 2022

Behavior & Likelihood Measures Updated

Key Attitudes Measured
Opportunity for Deep Local Sampling

19 Measured Behaviors

- Pet waste (2: on property/off property)
- Leaves/Lawn clippings (2)
- Litter (2: drop/pick-up)
- Fats, grease/Medicines down the drain (2)
- Fertilizer use/keep off hard surfaces (2)
- Pesticide/Herbicide use (2)
- Conservation landscaping
- Rain garden installation
- Septic system inspection/pump out
- Tree planting
- Downspouts redirected
- Rain barrel connected, emptied (2)
- Water conservation

Criteria for Including a Behavior:

- 1. Involves individual decision-making
- 2. Is repetitive and can be tracked over time
- 3. Can be broadly adopted by the public
- 4. Has an impact on water health
- 5. Can engage the public

Proposed New Behaviors

- Single use plastics
- Energy use
- Car washing
- Food choices (sourcing food locally)
- Others?



Choose the Right ONE Behavior to Influence

Impact: This behavior's impact on water quality

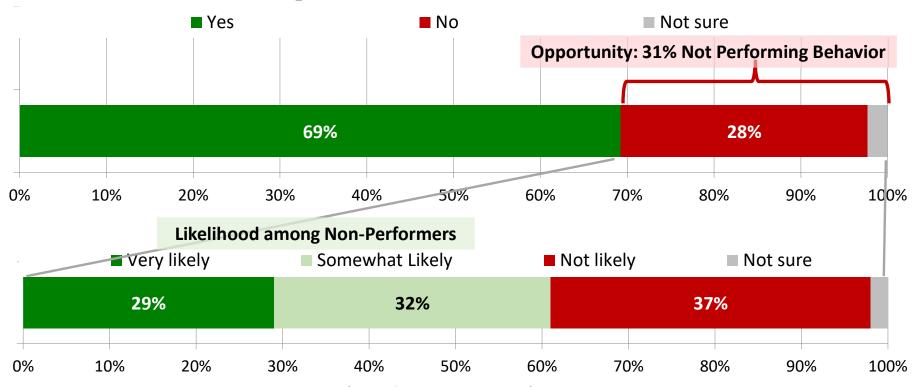
Opportunity: Share of the public who have not yet adopted the behavior

Likelihood: How ready people are to adopt

Physical science

Social Science

Rain Barrel is Connected and Emptied Between Rainstorms



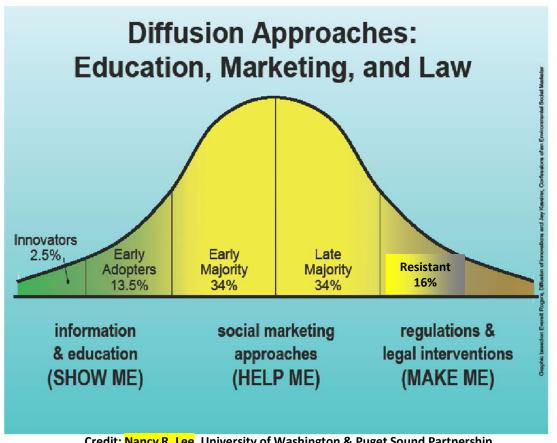
(Asked of those with a rain barrel):

"Is your rain barrel connected to a downspout and being emptied between rain storms?"

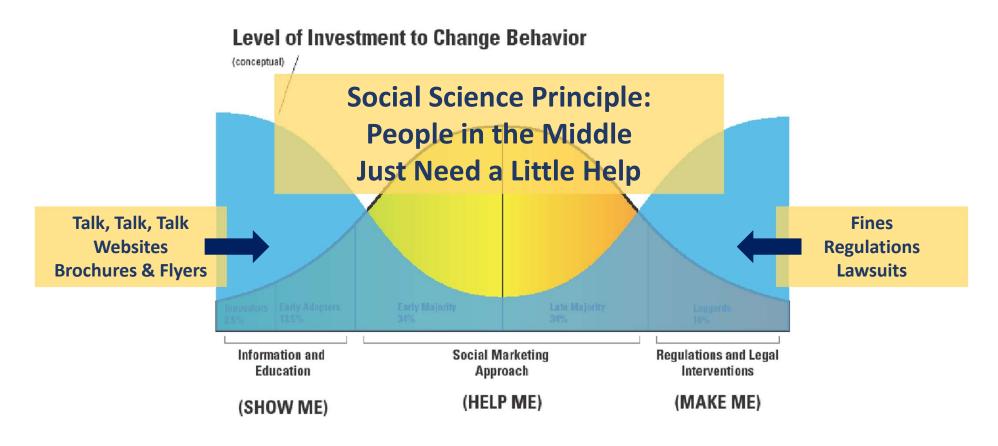
(If no or not sure): "Looking forward over the next year or so, how likely are you to do each of these things using the scale very likely, somewhat likely, or not likely? ...Empty your rain barrel between rainstorms."

Stewardship Indicator Survey

(N=5,212 Chesapeake Bay Watershed residents, 2017)



Credit: Nancy R. Lee, University of Washington & Puget Sound Partnership
Adapted from Everett Rogers, Jay Kassirer, Mike Rothschild, Dave Ward, Kristen Cooley



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A Step-by-Step Guide to Planning & Implementing a Behavior Change Campaign

Step 1

Identify a Single, End-State Behavior You Want to Change

Step 4

Develop Your Campaign (Strategies and Tools)

Step 2

Identify your Priority Audience and Measure the Behavior Baseline

Step 5

Implement Your Behavior Change Campaign

Step 3

Identify Barriers and Benefits

Step 6

Measure and Evaluate Behavior Change

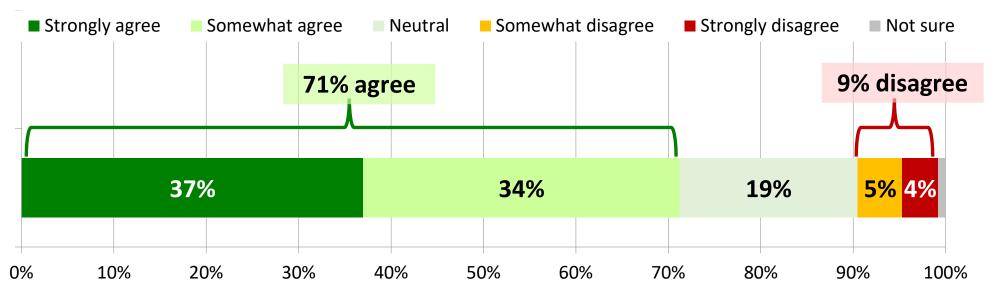


Chesapeake Behavior Change was developed in coordination with the Chesapeake Bay Program's Stewardship Workgroup. The goal of the Stewardship Workgroup is to grow the number of residents and organizations taking action from the ground up to encourage positive actions that protect and restore the health of the Chesapeake Bay.



A Public That Wants to be Engaged I want to do more to help make local creeks, rivers, and lakes healthier.

Level of Agreement



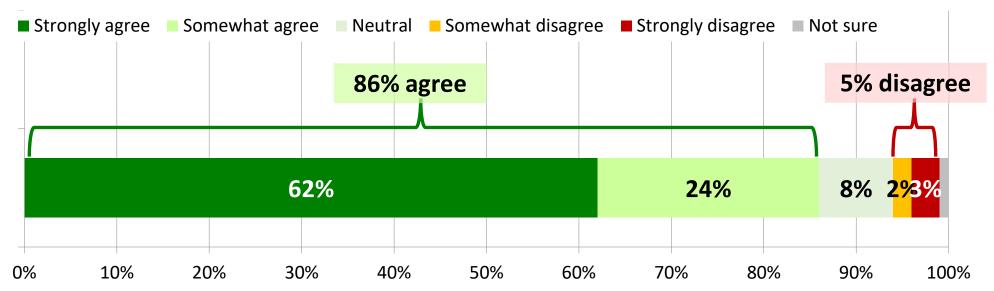
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Optimistic about Solutions

If people work together, water pollution around here can be fixed.

Level of Agreement



Stewardship Indicator Survey

(N=5,212 Chesapeake Bay Watershed residents, 2017)

