



# **Spring into Action: Dynamic Engagement!**

February 24, 2018

**Steve Raabe**

**President, OpinionWorks, LLC**  
**Board Chair, Watershed Stewards Academy**



## Dynamic Engagement

# Today's Objectives

1. Understand Basic Principles of Behavior Change
2. Know How to *Apply* the Social Science
3. Understand Anne Arundel County
4. Take It Down to the Community Level

# OpinionWorks Credentials

- Measure perceptions, behaviors
- Random samples, focus groups
  - *The Baltimore Sun* polling
  - University of Delaware
    - Ag/Residential response to Water Fee
  - Chesapeake Bay Trust
    - Extensive work assessing stewardship
  - City of Dayton, Ohio
    - Comprehensive survey of resident attitudes
  - West Virginia Department of Health
    - Barriers to cancer screening for low-income women
  - Virginia Cooperative Extension
    - Testing affinity for a sustainable lawn care program

**THE BALTIMORE SUN**  
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THURSDAY  
March 10, 2016

**ELECTION 2016 BALTIMORE MAYOR**  
Poll finds 25 percent of likely Democratic voters are still undecided, and support remains soft for some candidates

**The question**  
If the Democratic primary for mayor were held today, for whom would you vote? Twenty-five percent said they are undecided.

<b>PUGH</b> 26%	<b>DIXON</b> 24%	<b>WARNOCK</b> 10%	<b>MOSEY</b> 6%	<b>EMBRY</b> 5%	<b>STOKES</b> 3%
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**Pugh, Dixon virtually tied in primary race**

**BY LUKA BROADWATER AND YVONNE WENZEL**  
The Baltimore Sun

State Sen. Catherine E. Pugh and former Mayor Sheila Dixon are locked in a virtual tie in the Democratic race to become Baltimore's next mayor, a new poll for The Baltimore Sun and the University of Baltimore shows.

Pugh, whose support has surged in recent weeks, is now favored by 26 percent of likely voters in the Democratic primary. That's two points higher than the 24 percent who back Dixon, who has led the field for months. Businessman David L. Warnock, who has spent more than \$650,000 on television ads, is in third place with 10 percent.

"It's a tight race between the two leaders," said Steve Raabe, president of OpinionWorks, the Annapolis-based firm that conducted the poll. "Sheila Dixon has been matched and potentially overtaken by Catherine Pugh. People who decided recently are going toward Pugh."

City Councilman Nick J. Mosley was in fourth with 6 percent, followed by lawyer Elizabeth Embry with 5 percent and Councilman Carl Stokes with 3 percent.

**The poll**  
This poll is a joint venture of The Baltimore Sun and the University of Baltimore's College of Public Affairs and Schaefer Center for Public Policy.

**Coming Friday:**  
The presidential primaries

**\$535M sought in city TIF aid**

Sagamore wants help with infrastructure for Port Covington

**BY NATALIE SHERMAN**  
The Baltimore Sun

The city is being asked to contribute \$535 million to help finance the redevelopment of Port Covington, where billionaire Under Armour CEO Kevin Plank has embarked on a plan to transform the peninsula with offices, homes, shopping, restaurants, parks and a state-of-the-art campus for his growing company.

The city money would help pay for streets, utilities, parks, and highway and transit improvements for the roughly \$5.5 billion project.

Sagamore Development, Plank's private real estate firm, estimates that infrastructure for the project would cost in excess of

**BEST PRACTICES FOR PRODUCING A WATER QUALITY REPORT CARD**

Based on Audience Research conducted by OpinionWorks, LLC for the West/Rhode Riverkeeper, with funding from the Chesapeake Bay Trust

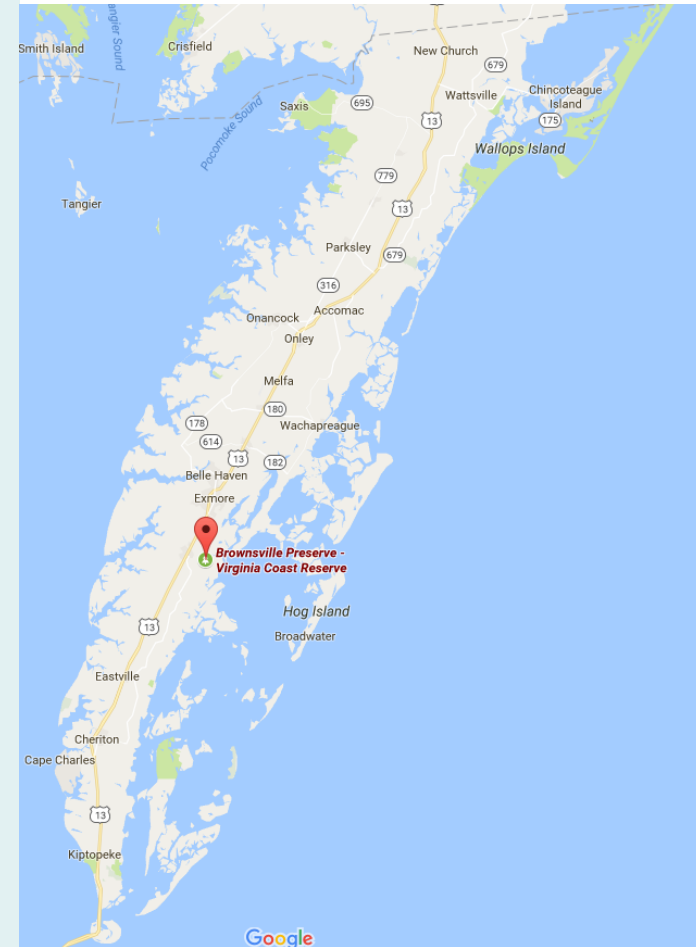
Tributary report cards are technical documents. Through careful measurement, water quality indicators are quantified, and the health of a Chesapeake Bay tributary is graded. The report card presents that scientific information to a public audience.

# **Behavior Change Starts with Listening**

## Research Tools

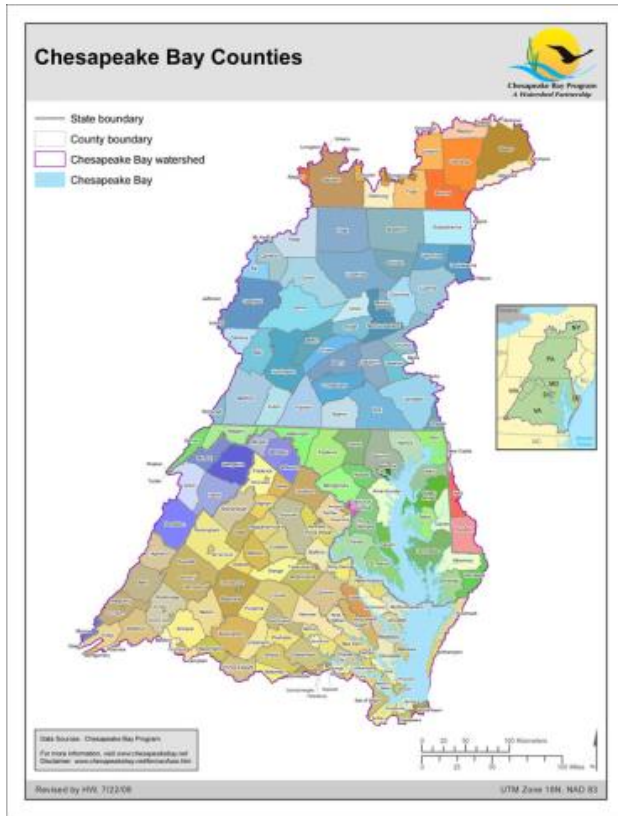
# Element 1: Random Community Survey

- 530 interviews
- June 2017
- Telephone sample (394 interviews)  
Supervised, live interviewers; landline and cell
- Mail/Online sample (136 interviews)
- Deep look at attitudes
- $\pm 4.9\%$  sampling error, 95% confidence



# Citizen Stewardship Indicator

## Sampling Methodology



	2017 Baseline
678 in Anne Arundel County	All states statistically significant N=5,212
VA	1,001 ( $\pm 3.1\%$ )
MD	1,005 ( $\pm 3.1\%$ )
PA	1,003 ( $\pm 3.1\%$ )
DC	801 ( $\pm 3.5\%$ )
WV	600 ( $\pm 4.0\%$ )
NY	400 ( $\pm 4.9\%$ )
DE	402 ( $\pm 4.9\%$ )

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



# Research Tools

## Focus Groups

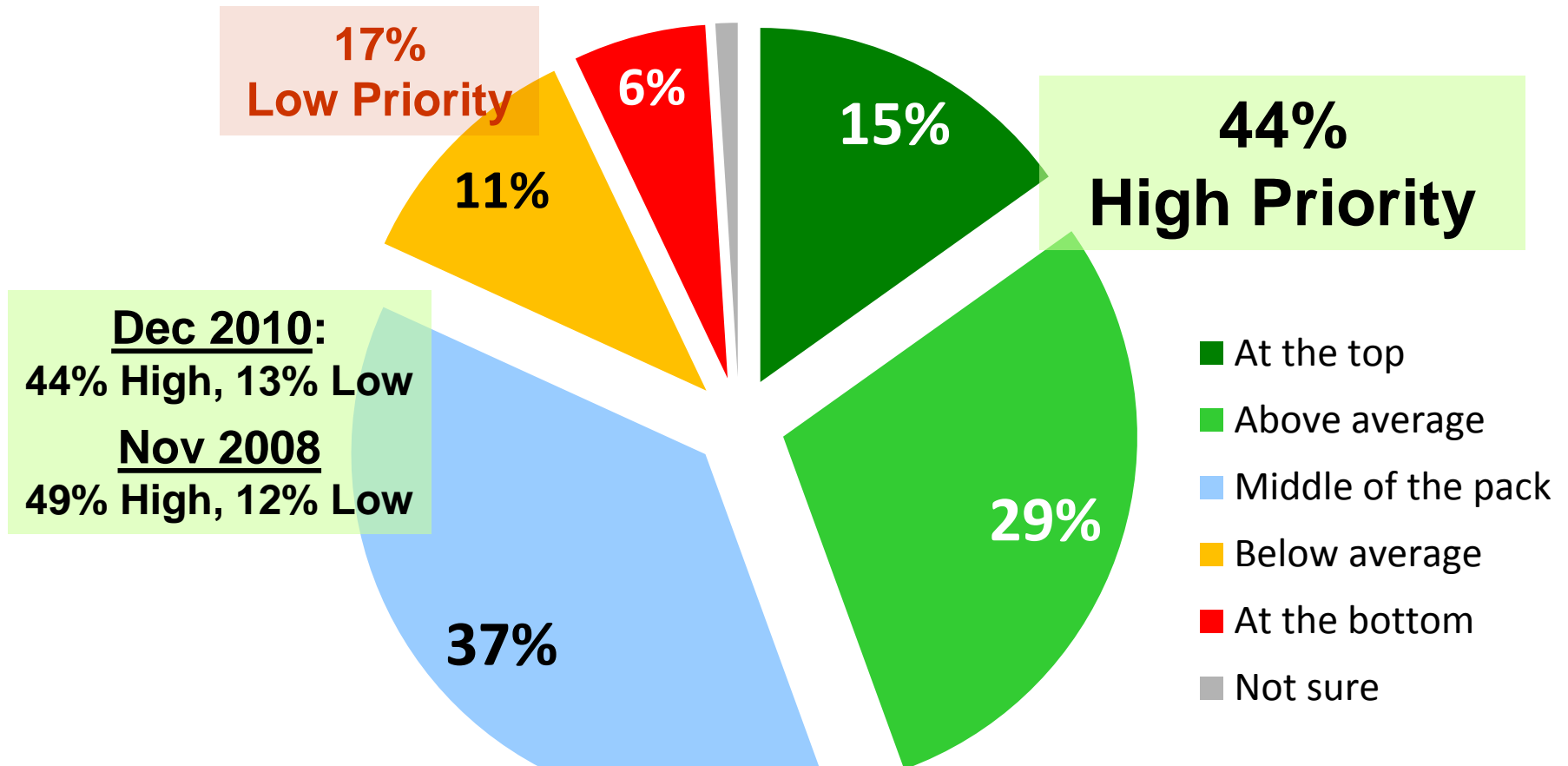
- Daily Life
- Living on the Eastern Shore
- Contact with the Outdoors
- Basic Impressions of TNC
- Reactions to TNC Programs & Priorities
- Building a Bridge to the Community



## Attitudes about Bay Restoration

Maryland

# Water Protection Ranks High



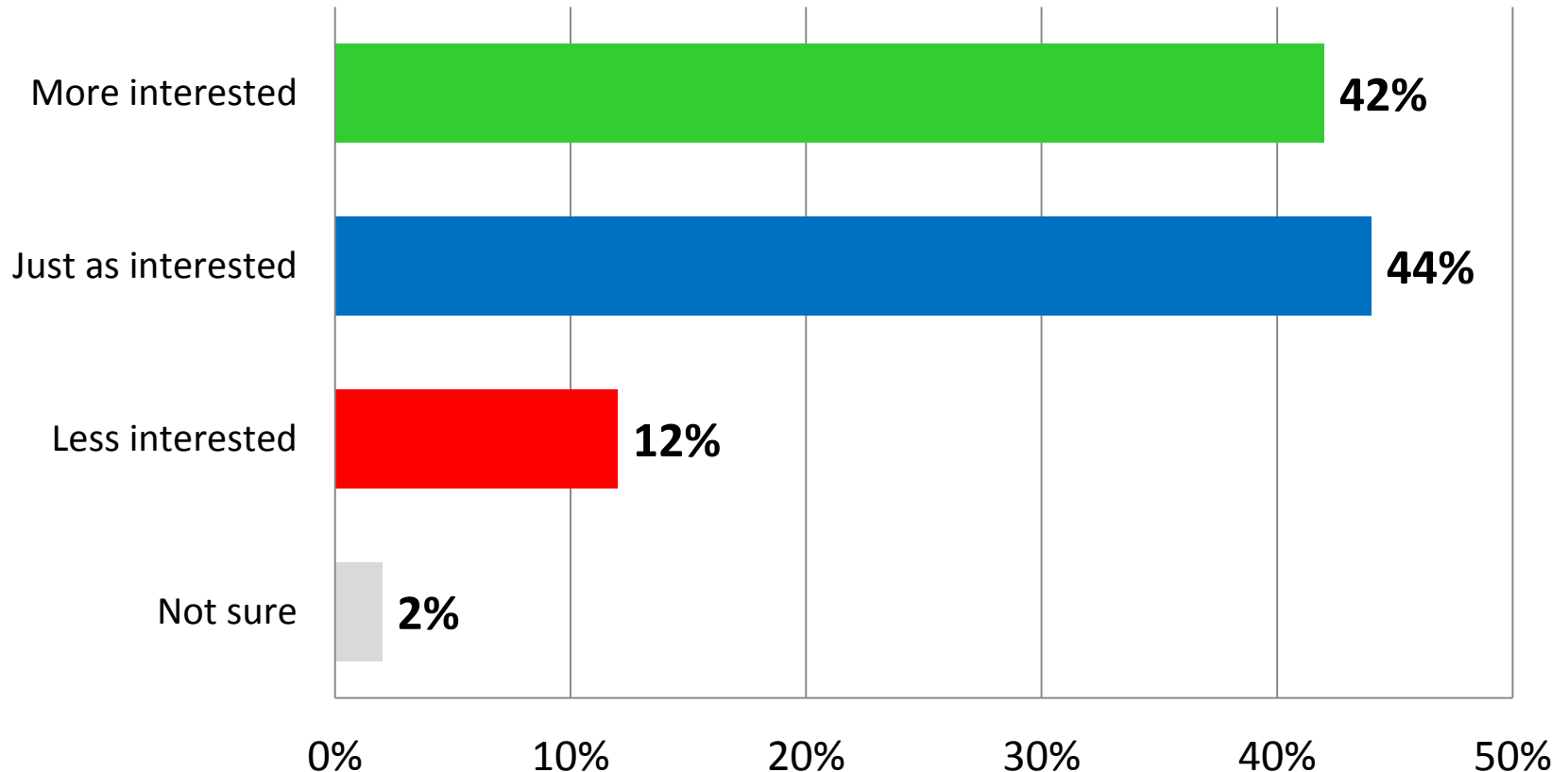
“If you were to consider all the issues and challenges facing Maryland today, where would (A/B split): [the health of our local waters/pollution in our local waters] rank on that priority list for you?”



## Attitudes about Bay Restoration

Maryland

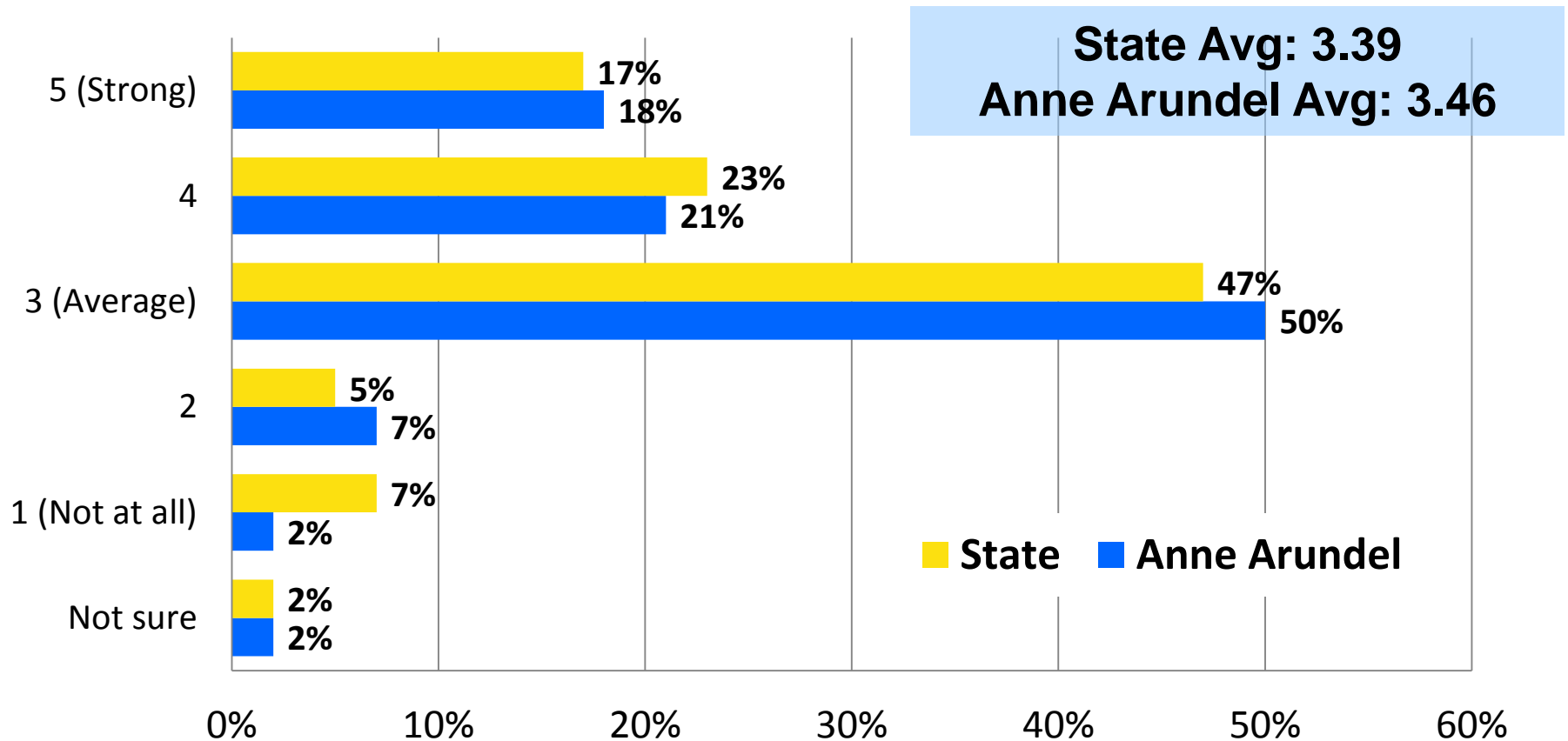
# Still Interested in Hearing about the Bay?



“Compared to a few years ago, would you say you are (randomize): [more interested, less interested, (or) just as interested] today in hearing about the health of the Chesapeake Bay?”

# Understanding Anne Arundel County

## Environmentally-Minded



“On a scale of 1 to 5 where 5 is a strong environmentalist, 3 is average, and 1 is not an environmentalist at all, where would you put yourself?” (Oct 2014)

**“If I knew what to do  
to help clean up  
local waters,  
I would do a lot more.”**

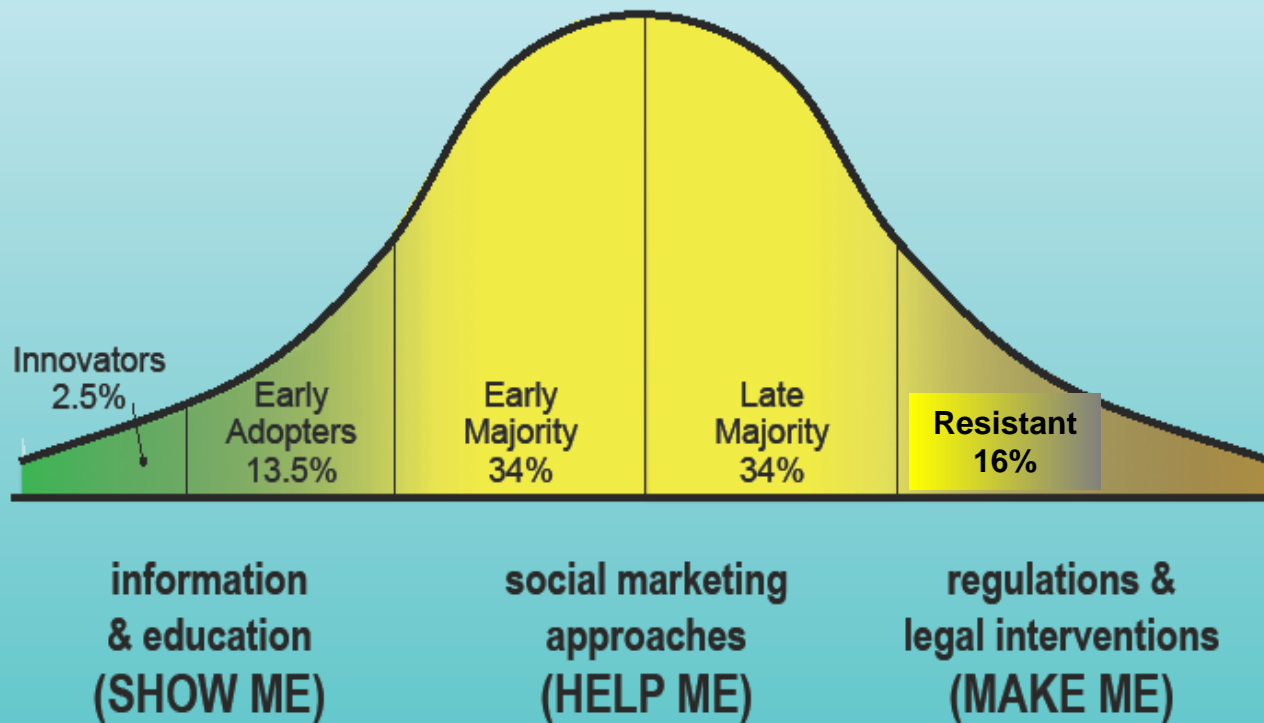


# **Influencing Behavior:**

## **Community Based**

## **Social Marketing**

# Diffusion Approaches: Education, Marketing, and Law

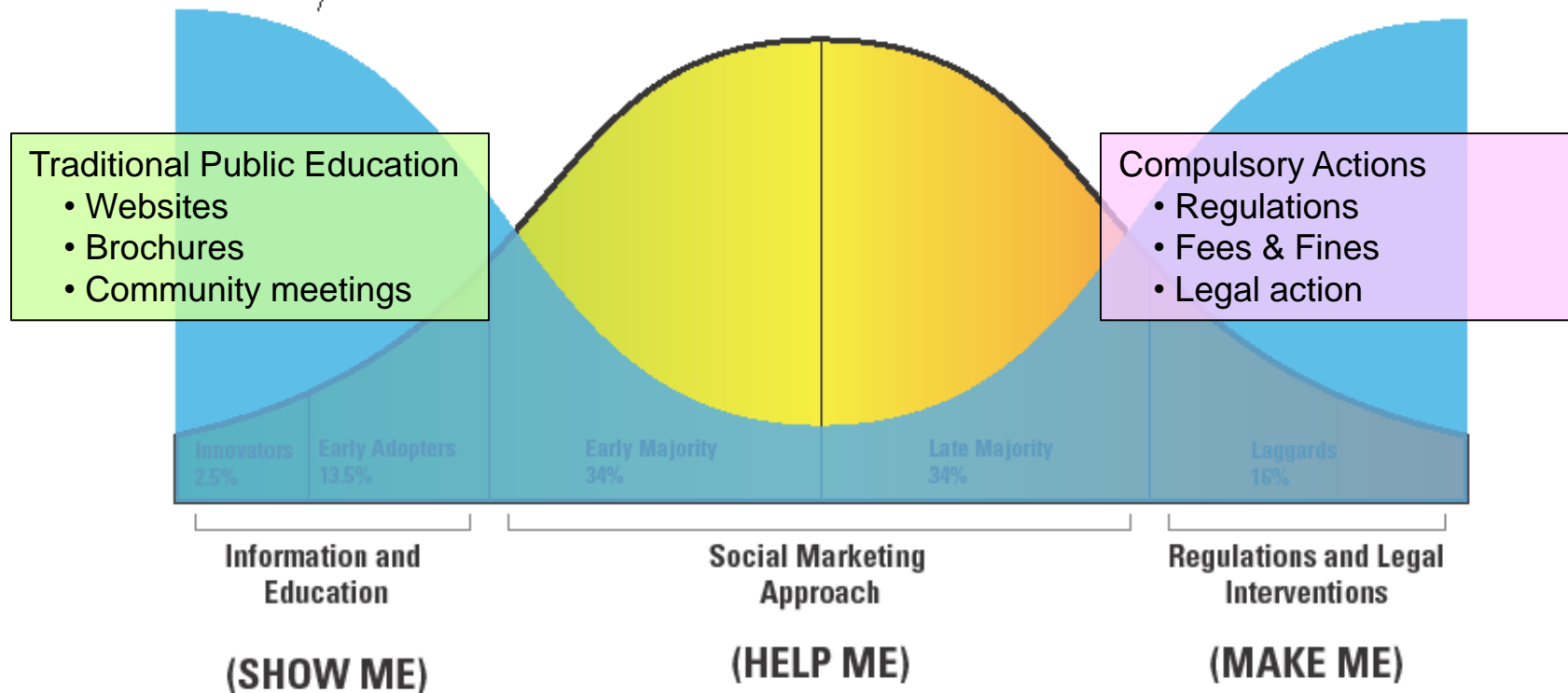


Graphic based on Everett Rogers, Diffusion of Innovations and Jay Kassirer, Confessions of an Environmental Social Marketer

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

# Level of Investment to Change Behavior

(conceptual)



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



# Taking Action for Clean Water in Capitol Heights

Example Tool: Pledge

“Free Upgrade”

A/B Test:

A. Flooding

B. Water quality

50% of homes visited  
signed the pledge



## Am I contributing to water pollution?

Unfortunately, we all are. Every day, trash, oil, sediment, chemicals and other pollutants collect on our roofs, roads, parking lots and driveways. When it rains, the pollutants travel over these hard surfaces and flow into our creeks and rivers.

## How Can I Help?

There are simple things we can do in our own yards to help reduce pollution in our local creek and the Anacostia River.

Disconnecting your downspout means redirecting your roof runoff away from hard surfaces like streets and driveways and onto planted areas where the water will soak in. This simple action can provide a BIG reduction in the amount of pollution.

## Helping is easy, and it's FREE!

Capitol Heights residents can get **FREE downspout redirectors** including pipe extenders and splash pads, and a **FREE visit from someone who can help you install them.**



## ..... Take the Pledge! .....

We know you care about your home and want the waters to be cleaner. Sign the pledge card and become part of the solution for your community.

*I commit to helping reduce the impact of stormwater runoff in the Anacostia River by completing*

*\_\_\_\_\_ on my personal property.*

Signature \_\_\_\_\_ Date \_\_\_\_\_

## What Happens Next?

Based on your availability, we will contact you to arrange follow up and installation.

## MORE INFORMATION:

Prince George's Department of Environment Stormwater Management Division: [bit.ly/PGDOESW](http://bit.ly/PGDOESW)  
Stormwater Fee FAQ: [bit.ly/PGDOESWFAQ](http://bit.ly/PGDOESWFAQ) • Rain Check Rebate Program: [bit.ly/PGDOESWREBATES](http://bit.ly/PGDOESWREBATES)

**Outcome:**  
**50% of homes signed the pledge.**  
**24% followed through.**



## Engaging the Public in Stewardship

# **Help Me Do What I Can Do**

- One or two actions, not 10!

**Too many choices = Overwhelmed**

**Too many choices = Inaction**

- Show the “five dollar action” the average person can take, not just costly actions.

# **The Social Marketing Process**

## **Reaching the Help Me Group**

1. Know your campaign's purpose and focus
2. Pinpoint your target audience
3. Identify the specific behavior you want the audience to take
4. Assess the barriers to the action
5. Find the benefits and motivators that will overcome those barriers

# The Social Marketing Process

## Reaching the Help Me Group

### 6. Refine your messages, incentives, and tools, and determine where and how you will deliver them to the target audience

- Product: Social Marketing Tools, Benefits
- Place: Convenience for the Audience
- Price: Incentives, Rebates
- Promotion: Messages, Delivery Channels



### 7. Evaluate and measure your progress



Photos Courtesy Chesapeake Bay Program

# **Chesapeake Bay** **Stewardship Indicator**



# Stewardship Outcome

*“Increase the number and diversity of trained and mobilized citizen volunteers with the knowledge and skills needed to enhance the health of their local watersheds.”*



## AFFIRMATION

As Chesapeake Bay Program Partners, we recognize the need to accelerate implementation of actions necessary to achieve the Goals and Outcomes outlined herein and realize our shared Vision of a healthy and vibrant Chesapeake Bay watershed.

As Chesapeake Bay Program Partners, we acknowledge that this Agreement is voluntary and subject to the availability of appropriated funds. This Agreement is not a contract or an assistance agreement. We also understand that this Agreement does not pre-empt, supersede or override any other law, regulation, or policy 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 both independently and collaboratively toward the Goals and Outcomes of this Agreement and to implement specific Management Strategies to achieve them. Every citizen of this great watershed is invited to join with the Partnership, uniting as a region and embracing the actions that will lead to success.

Date: June 16, 2014

For the Chesapeake Bay Commission



*Ronald E. Miller*

For the State of Delaware



*Del. Mahell*

For the District of Columbia



*Vernon C. Gray*

For the State of Maryland



*Arthur Staley*

For the Commonwealth of Pennsylvania



*Tom Corbett*

For the State of New York



*Andrew Cuomo*

For the Commonwealth of Virginia



*Eric L. Hoffer*

For the State of West Virginia



*Earl Ray Tomblin*

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



*Jim McClure*

U.S. Environmental Protection Agency

U.S. Department of Agriculture

U.S. Department of Commerce

U.S. Department of Defense

U.S. Department of Homeland Security

U.S. Department of the Interior

U.S. Department of Transportation



Chesapeake Bay Program  
Science. Restoration. Partnership.

# Chesapeake Bay Watershed Agreement

## 10 broad goals for Bay restoration

**Sustainable Fisheries**

**Vital Habitats**

**Water Quality**

**Toxic Contaminants**

**Healthy Watershed**

**Climate Resiliency**

**Land Conservation**

**Stewardship**

**Public Access**

**Environmental Literacy**

[https://www.chesapeakebay.net/what/what\\_guides\\_us/watershed\\_agreement](https://www.chesapeakebay.net/what/what_guides_us/watershed_agreement)

# Citizen Stewardship Framework

*Increasing citizen actions for watershed health*



# Stewardship Behavior Criteria

1. Involves individual decision-making
2. Is repetitive and can be tracked over time
3. Can be broadly adopted
  - A. Not just by experts
  - B. Not pre-emergent
4. Has an impact on water health
5. And/or will engage the public

# 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
- Tree planting
- Downspout redirect
- Rain barrel/Connected, emptied (2)
- Water conservation



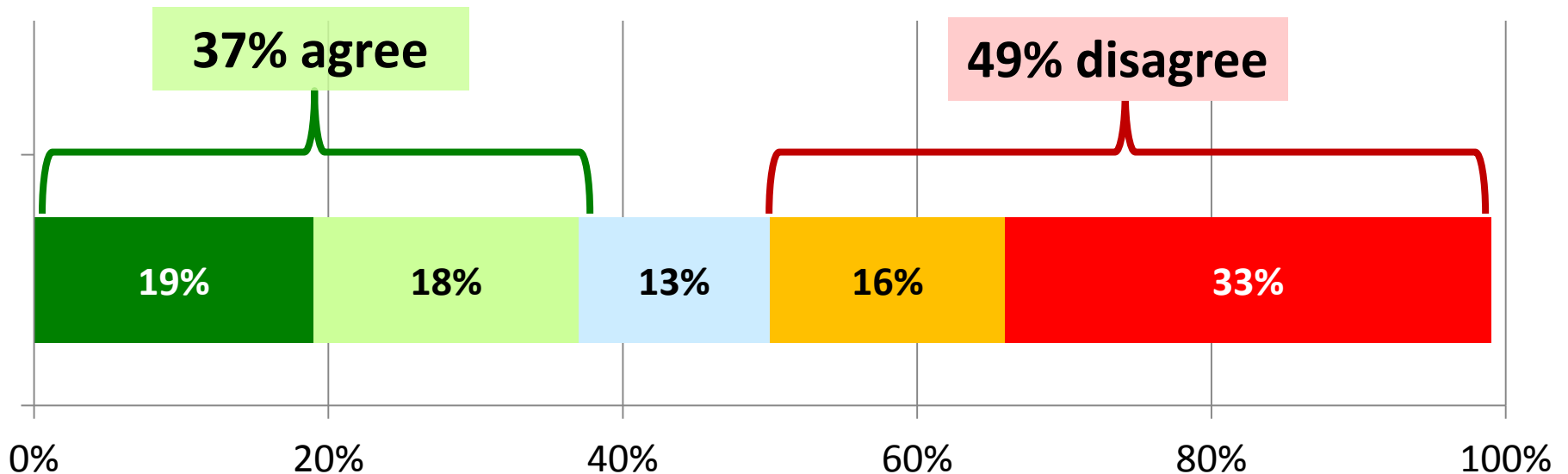
# Citizen Stewardship Indicator

Anne Arundel County Data

## My actions contribute to water pollution where I live.

*Level of Agreement*

■ Strongly agree ■ Somewhat agree ■ Neutral ■ Somewhat disagree ■ Strongly disagree



Baywide: 35% Agree/51% Disagree



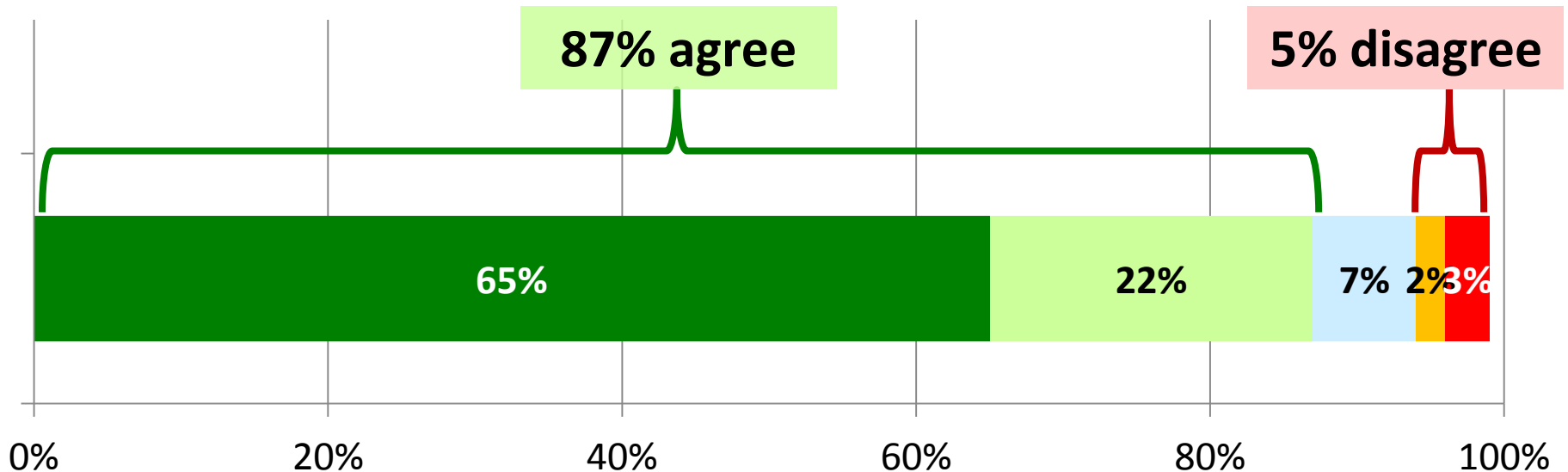
# Citizen Stewardship Indicator

Anne Arundel County Data

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

*Level of Agreement*

■ Strongly agree ■ Somewhat agree ■ Neutral ■ Somewhat disagree ■ Strongly disagree



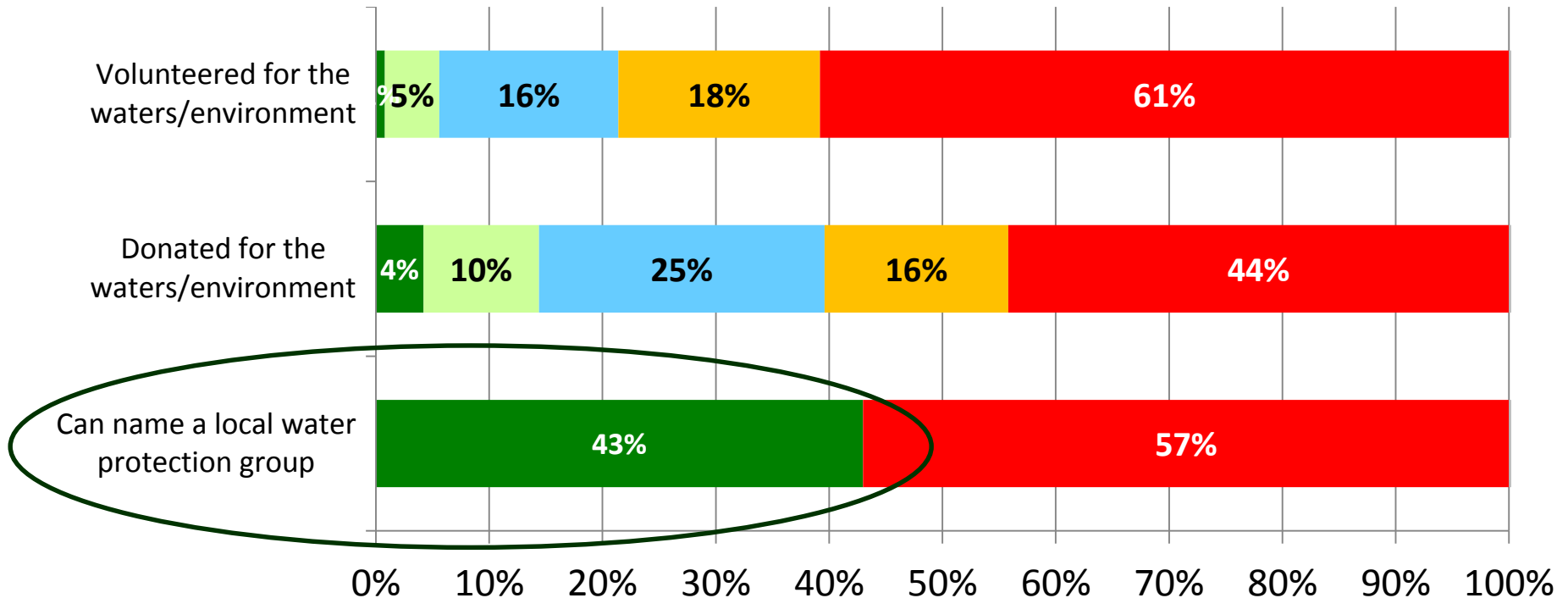
Baywide: 86% Agree/5% Disagree

# Citizen Stewardship Indicator: 2017 Final Baywide Data

Anne Arundel County Data

## Volunteerism

Very Frequently/Yes Frequently Sometimes Seldom Never/No Not sure



Never No	Seldom	Sometimes	Frequently	Very frequently Yes
0	25	50	75	100
100	75	50	25	0

# **Individual Behavior Measurement**

# Choosing the Right Behavior to Influence

## Behavior Weighting:

**Impact of the Behavior on Water Quality**

**x**

**Inverse of the Penetration (Level of Adoption) in the Community**

**x**

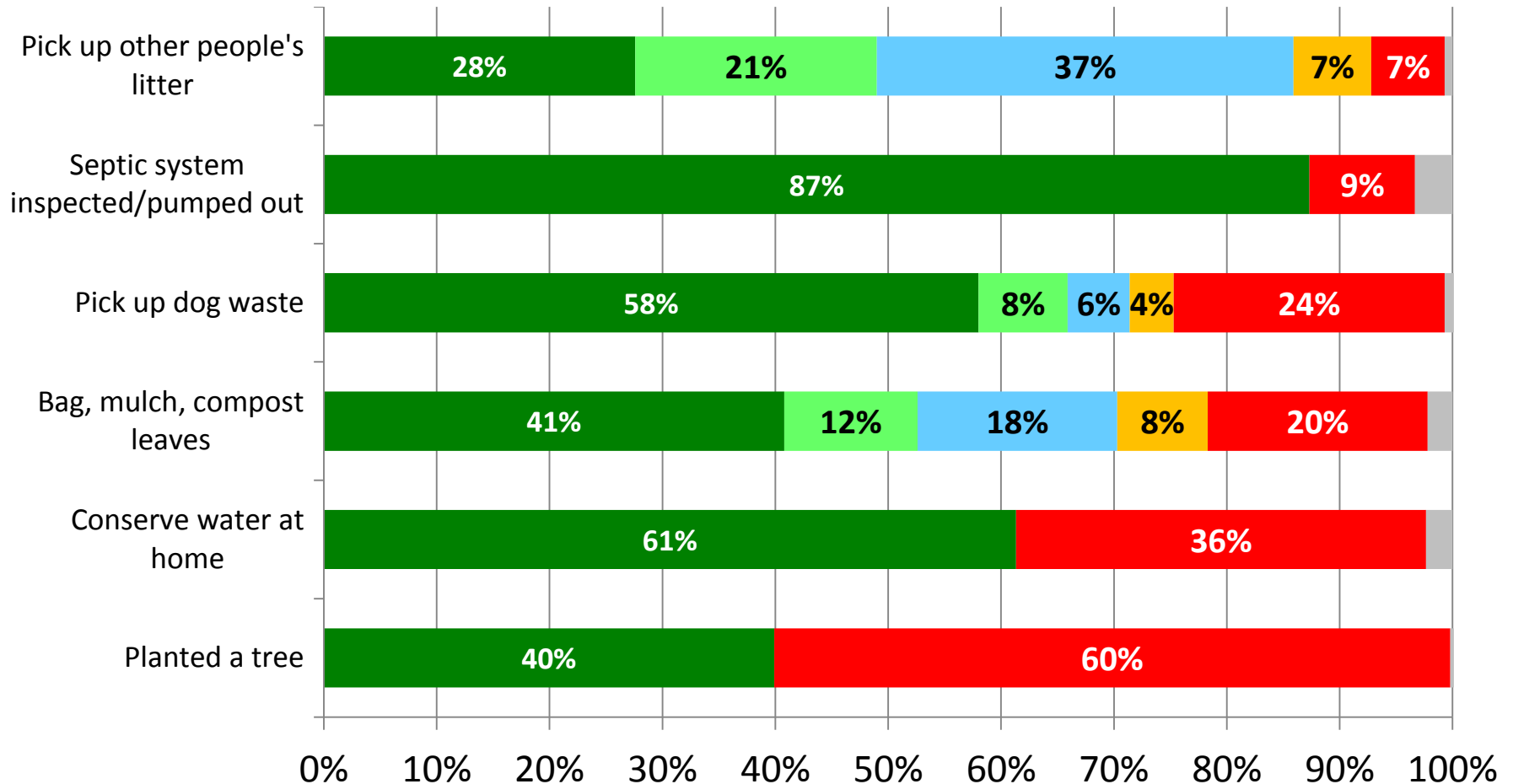
**Likelihood the Public will Adopt the Behavior**

# Citizen Stewardship Indicator: Anne Arundel Data

## *Positive* Behaviors: Higher Tier

Desired = Always/Very Frequently/Yes → Sometimes

■ Always/Very Frequently/Yes ■ Usually/Frequently ■ Sometimes ■ Seldom ■ Never/No ■ Not sure

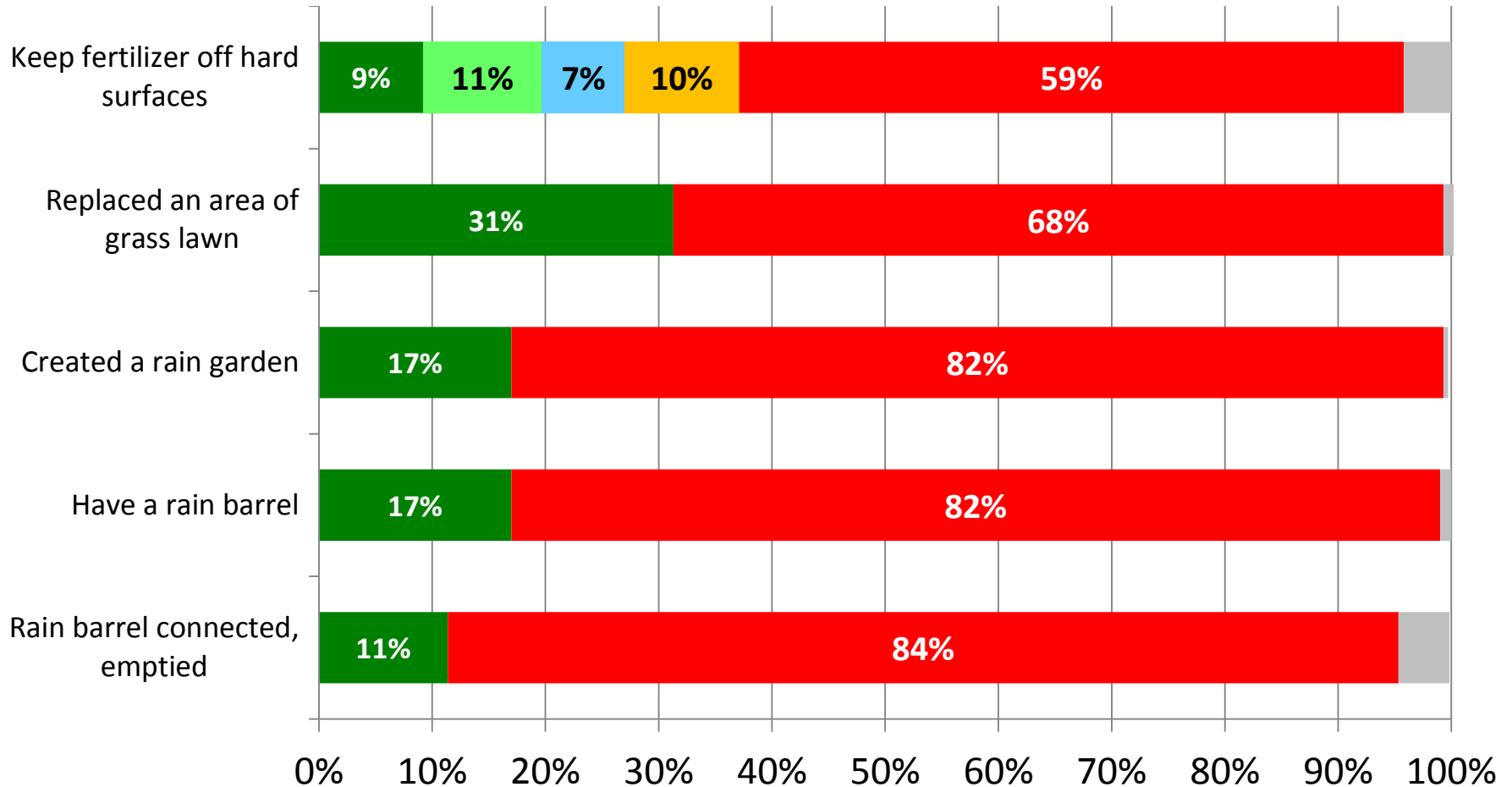


# Citizen Stewardship Indicator: Anne Arundel Data

## *Positive* Behaviors: Lower Tier

Desired = Always/Very Frequently/Yes → Sometimes

■ Always/Very Frequently/Yes ■ Usually/Frequently ■ Sometimes ■ Seldom ■ Never/No ■ Not sure



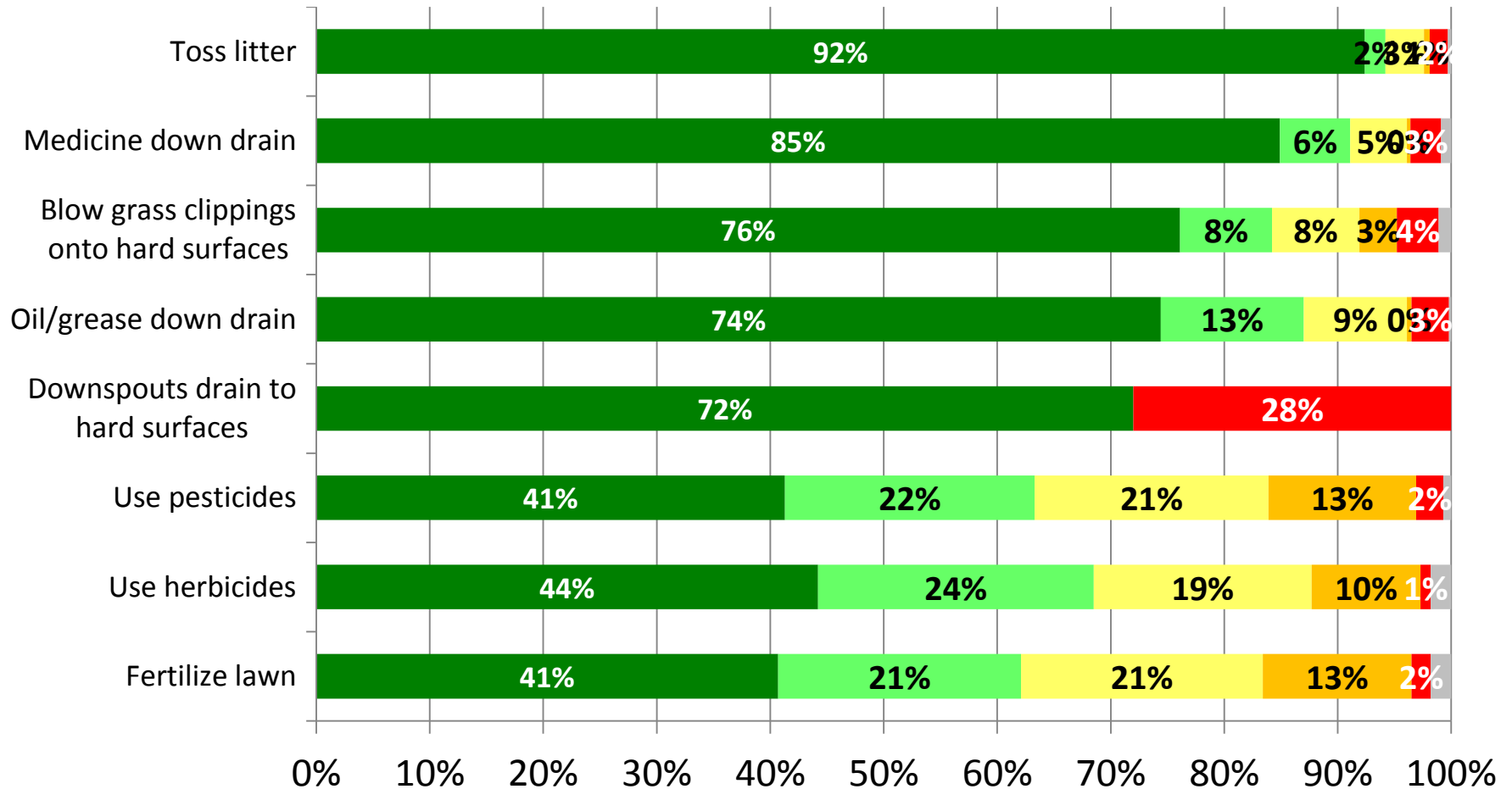


# Citizen Stewardship Indicator: Anne Arundel Data

## *Negative* Behaviors

Desired = Never/No, or Seldom

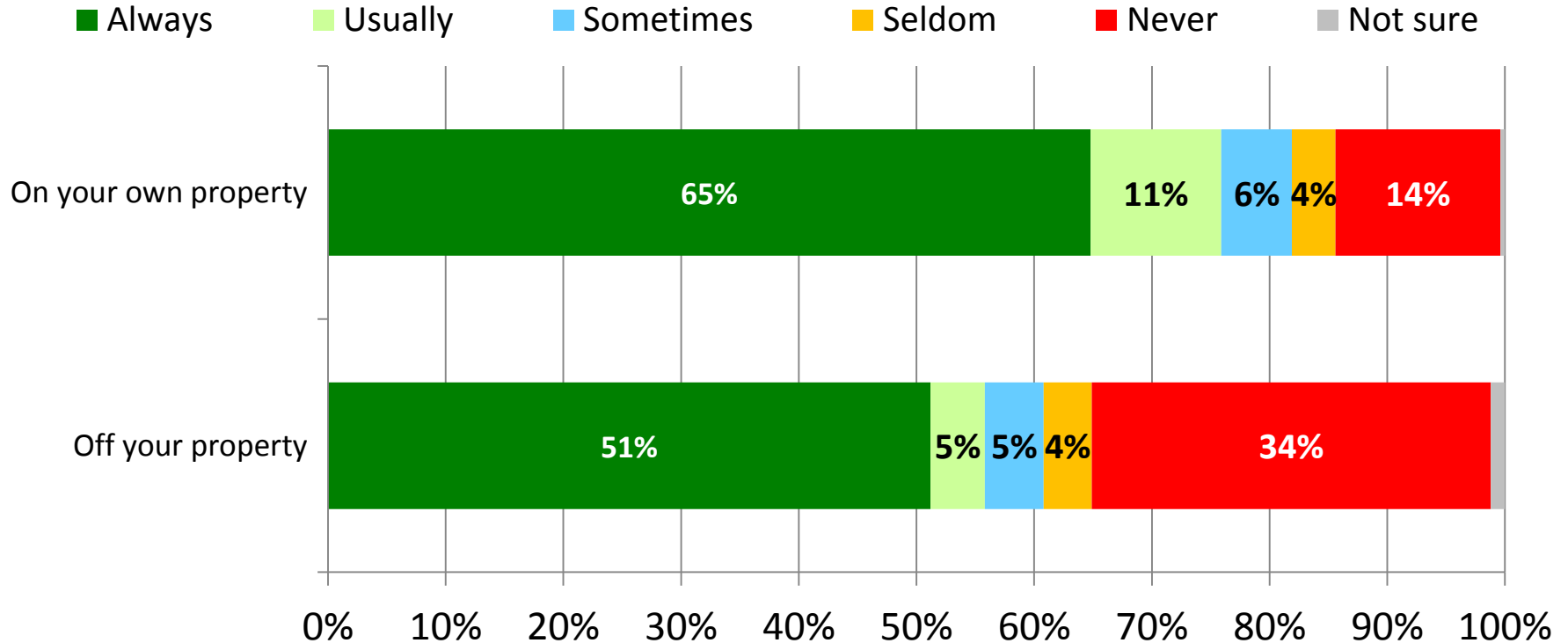
■ Never/No ■ Seldom ■ Sometimes ■ Usually/Frequently ■ Always/Very Frequently/Yes ■ Not sure



# Citizen Stewardship Indicator: Anne Arundel Data

Anne Arundel County Data

## Focus Behavior: Picking up Dog Waste



For each of the following things, please tell me if you never, seldom, sometimes, usually, or always do it.

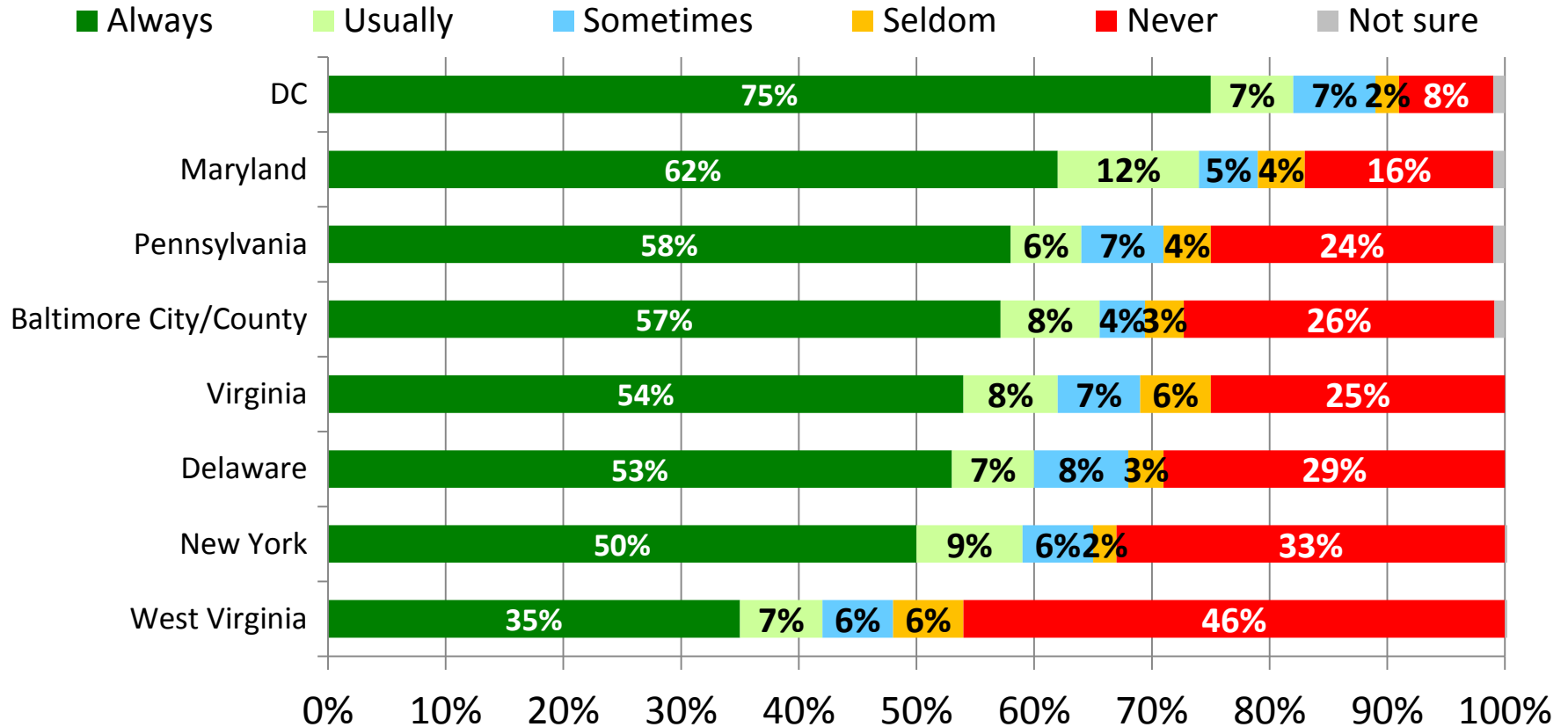
Pick up your dog's waste and dispose of it in the trash when you are...

...On your own property.

...Off your property.

# Citizen Stewardship Indicator: 2017 Final Baywide Data

## Focus Behavior: Picking up Dog Waste

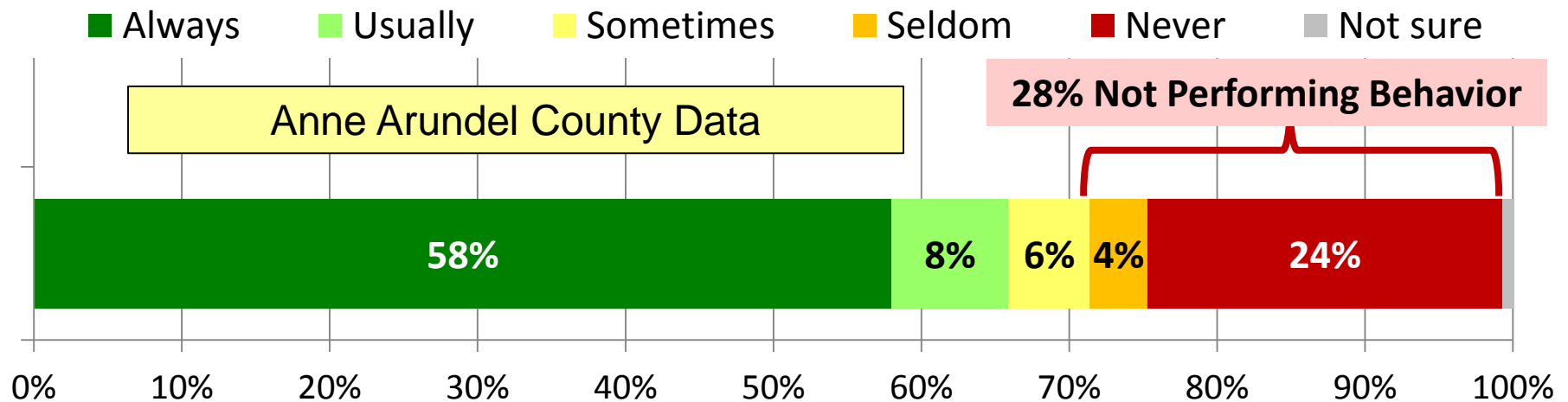


For each of the following things, please tell me if you never, seldom, sometimes, usually, or always do it.

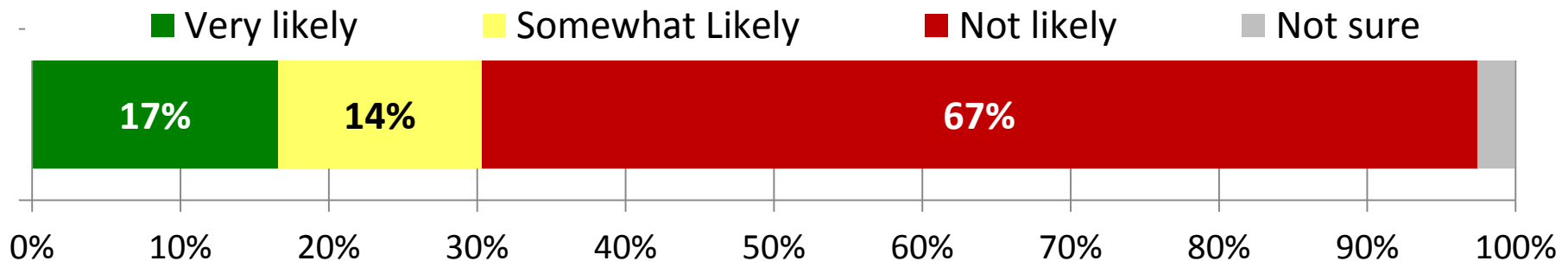
Pick up your dog's waste and dispose of it in the trash when you are...  
...On your own property.

# Citizen Stewardship Indicator

## Picking up Dog Waste (Aggregated On & Off Property)



### Likelihood among Non-Performers:



(Asked of those with a dog):

“For the next few things, please tell me if you never, seldom, sometimes, frequently, or very frequently do it....Pick up your dog’s waste and dispose of it in the trash when you are...on your own property/off your property.”

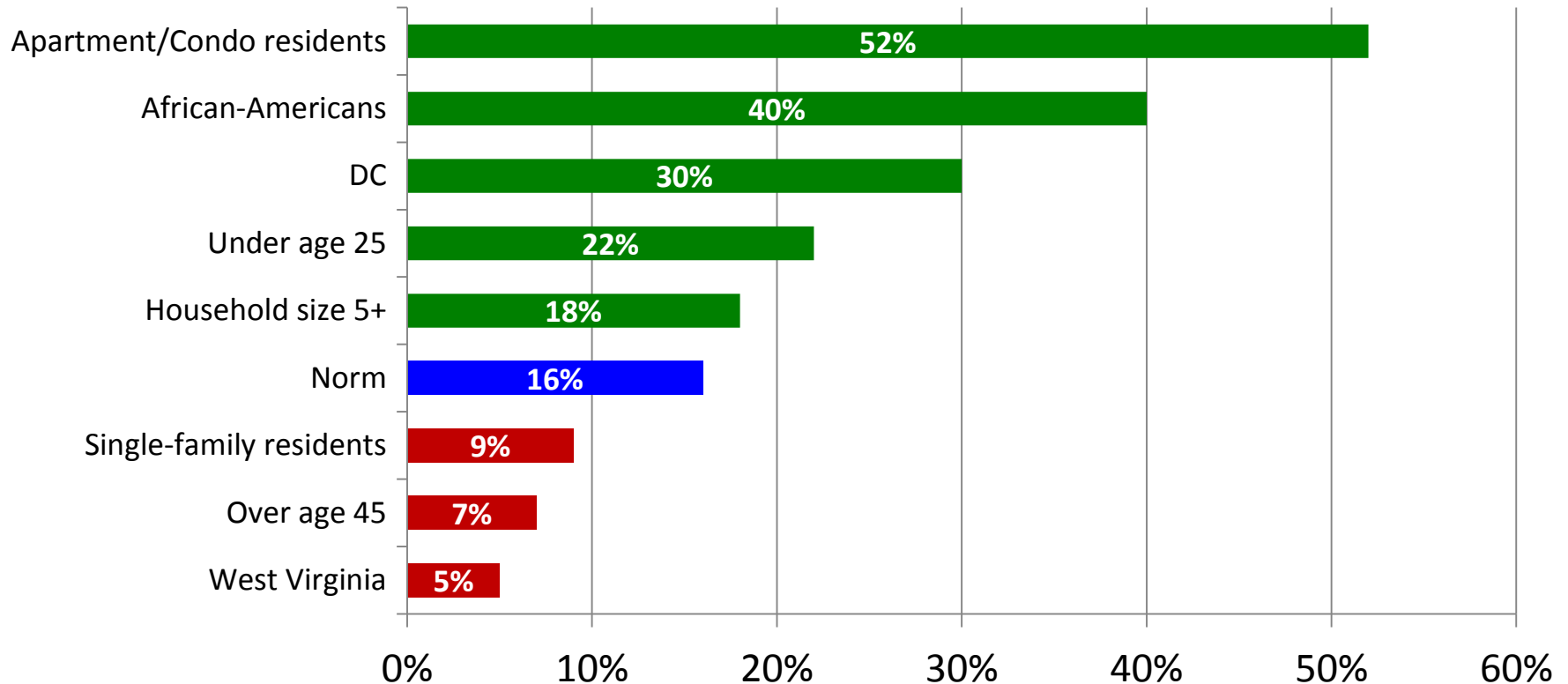
(If seldom or never): “Looking forward over the next year or so, how likely are you to do each of these things using the scale very likely, somewhat likely, or not likely?

...Pick up your dog’s waste and dispose of it in the trash while you are...on your own property/off your property.”

# Citizen Stewardship Indicator: 2017 Final Baywide Data

## Focus Behavior: Picking up Dog Waste

*“Very Likely” to Begin Picking Up*



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?

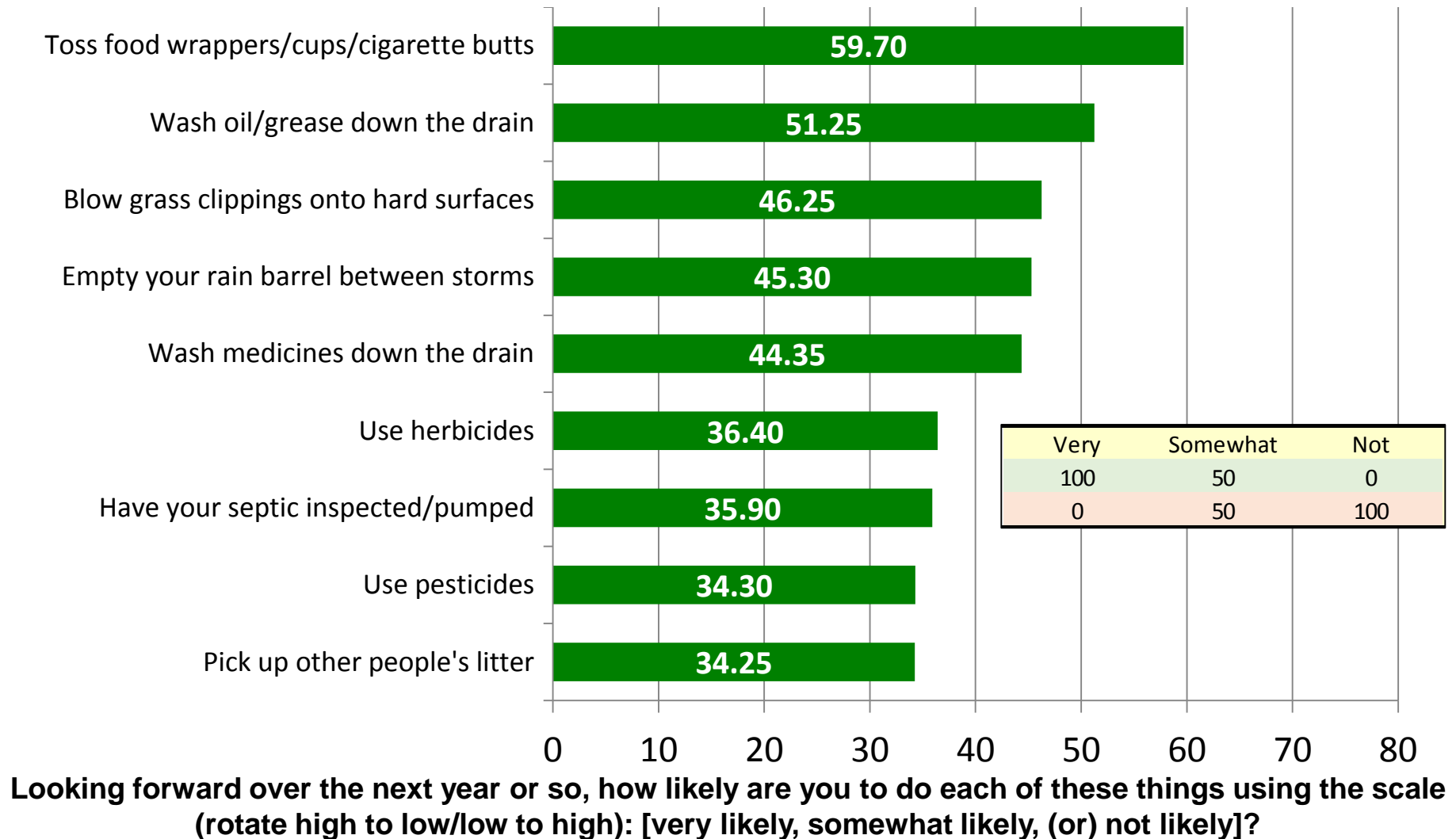
Pick up your dog's waste and dispose of it in the trash when you are...  
...On your own property.

# Segmentation Opportunities

- **Jurisdiction**
- **Age**
- **Educational attainment**
- **Health status (self-assessed)**
- **Household size, presence of children**
- **Home ownership**
- **Housing type**
- **Community size**
- **Agriculture**
- **Religious affiliation, worship frequency**
- **Race/ethnicity**
- **Household income**
- **Gender**

# Citizen Stewardship Indicator: 2017 Final Baywide Data

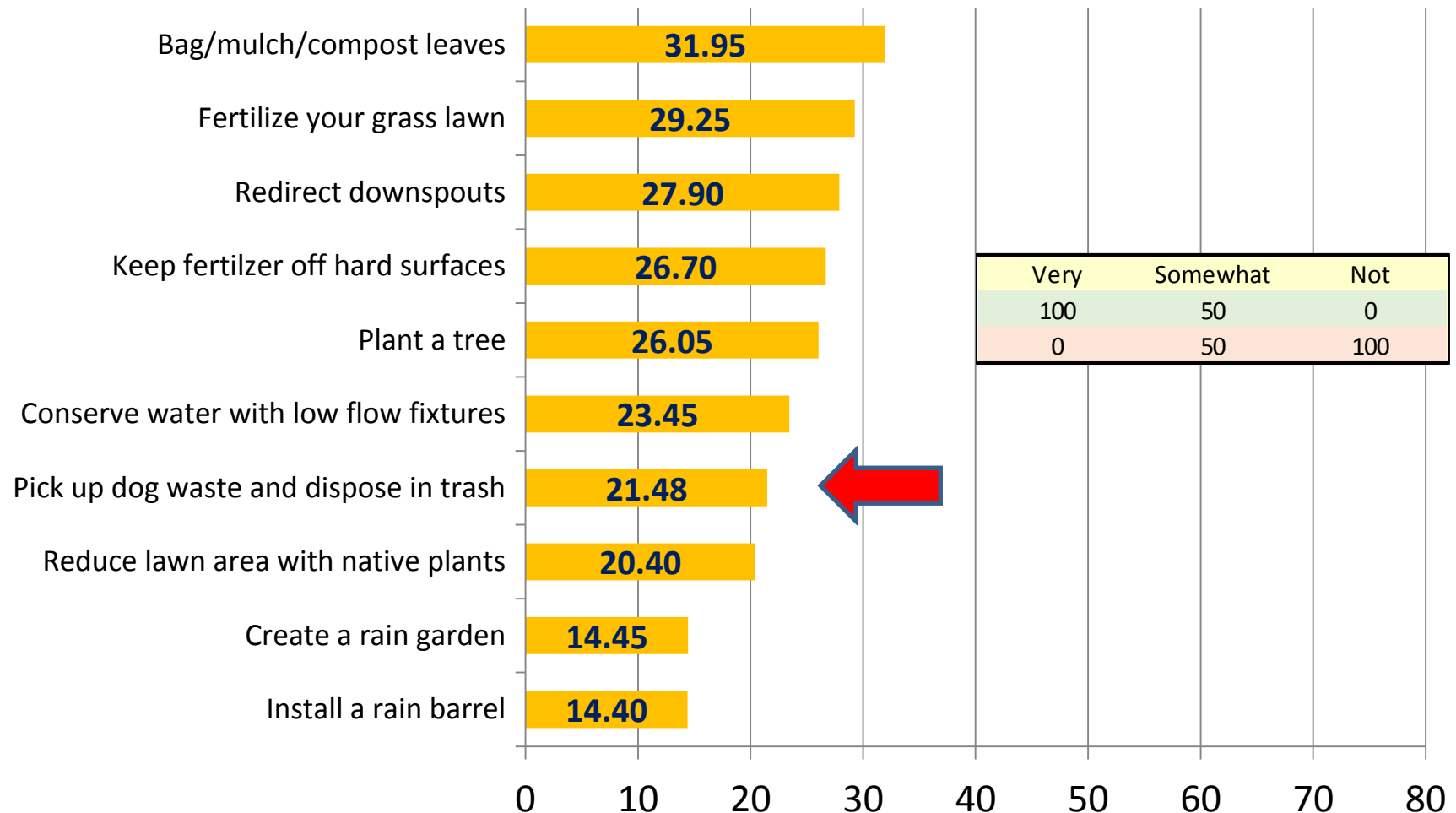
## Behaviors More Susceptible to Change *Asked Only of Those Not Taking the Desired Action Today*



# Citizen Stewardship Indicator: 2017 Final Baywide Data

## Behaviors Less Susceptible to Change

*Asked Only of Those Not Taking the Desired Action Today*



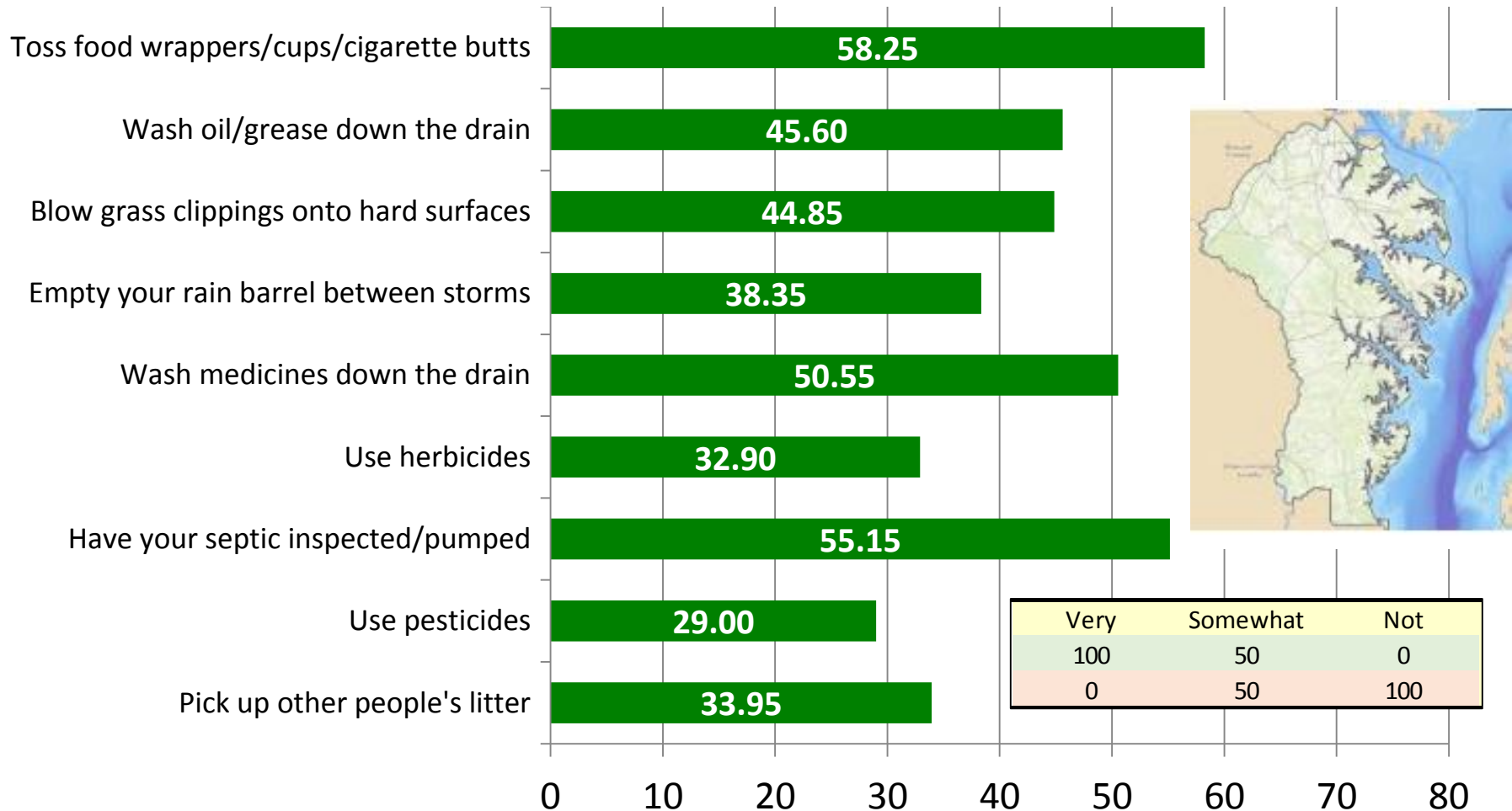
Looking forward over the next year or so, how likely are you to do each of these things using the scale (rotate high to low/low to high): [very likely, somewhat likely, (or) not likely]?



# Citizen Stewardship Indicator: Anne Arundel County

## Behaviors Susceptible to Change

*Asked Only of Those Not Taking the Desired Action Today*



Looking forward over the next year or so, how likely are you to do each of these things using the scale (rotate high to low/low to high): [very likely, somewhat likely, (or) not likely]?

# Citizen Stewardship Indicator: 2017 Final Baywide Data

	Adoption	Non-Adoption	Likelihood	Product
Lawn fertilizer off hard surfaces	33.1%	0.669	26.70	17.86
Plant a tree	39.9%	0.601	26.05	15.66
Replace an area of grass lawn with natives	25.9%	0.741	20.40	15.12
Empty rain barrel between rainstorms	69.2%	0.308	45.30	13.95
Use herbicide	63.8%	0.362	36.40	13.18
Create a rain garden	13.2%	0.868	14.45	12.54
Install a rain barrel	14.2%	0.858	14.40	12.36
Bag, mulch, or compost leaves	62.9%	0.371	31.95	11.85
Install low flow fixtures	53.4%	0.466	23.45	10.93
Fertilize a grass lawn	62.8%	0.372	29.25	10.88
Use pesticides	68.9%	0.311	34.30	10.67
Septic system inspected	71.7%	0.283	35.90	10.16
Blow grass clippings onto hard surfaces	79.6%	0.204	46.25	9.44
Downspouts directed to hard surfaces.	69.6%	0.304	27.90	8.48
Oil or grease down the drain	84.4%	0.156	51.25	8.00
Pick up dog waste	63.0%	0.370	21.48	7.95
Pick up other people's litter	79.0%	0.210	34.25	7.19
Medicine down the drain	92.5%	0.075	44.35	3.33
Toss litter on the ground	94.7%	0.053	59.70	3.16

Adoption = Percentage of the population performing a positive behavior (at least sometimes) or not performing a negative behavior (seldom or never)

**What Have  
We Learned?**