# 2015 Patuxent River Conference

**Questions of Concern** 

Polling Results

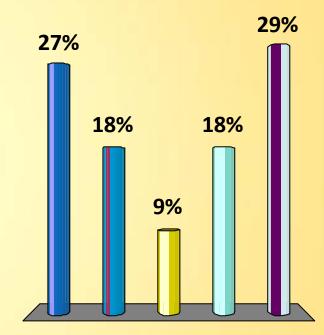
#### 1. Watershed / Upland Species and Habitat

What is the most fundamental scientific question concerning watershed / upland habitat and species that would enhance our understanding of the Patuxent River ecosystem?

#### Watershed / Upland Species and Habitat

#### Fundamental Questions

- A. How do we monitor & evaluate restoration practices through the lens of water quality, habitat connectivity, and species conservation?
- B. How do stream water condition & ecosystem function vary between physiographic provinces & land uses in ways that are relevant to people & policymakers?
- C. What is the baseline of the current health (nutrients, sediments, chemical contaminants) of the nontidal portion of the Patuxent River?
- D. What interventions would be most effective in reducing sediment & nutrient loading?
- E. How do we effectively communicate the connection between land management & the Patuxent River watershed?



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### Watershed / Upland Species and Habitat

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- 2. How do we effectively communicate the connection between land management and the Patuxent River watershed?

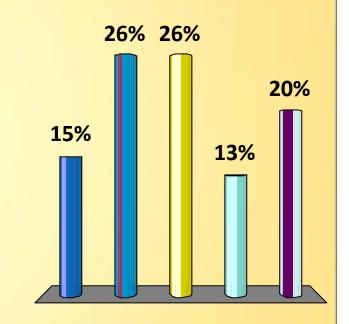
## 2. Tidal Species and Habitat

What is the most fundamental scientific question concerning tidal habitat and species that would enhance our understanding of the Patuxent River ecosystem?

## Tidal Species and Habitat

#### Fundamental Questions

- Α. How do we prepare for impending climate change through improved understanding of salinity changes, sea level rise, ground water, storm events, & the role of keystone areas (marshes, forest buffers, & tidal streams)?
- B. What role do tidal creeks & wetlands play in processing land-based or Patuxent tidal fluxes of nutrients & sediments?
- How effective are different management strategies (ie. Citizen Science, Living Shorelines, adaptive management, BMPs <Best Management Practices>) in improving water quality / habitat quality, & how do we measure that effectiveness?
- D. What is the most significant impact of
- Low do we synthesize long-term monitoring we here do tide apply that data to improve water quality? How when the matter are the monitoring we have a so we have a E.



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## **Tidal Species and Habitat**

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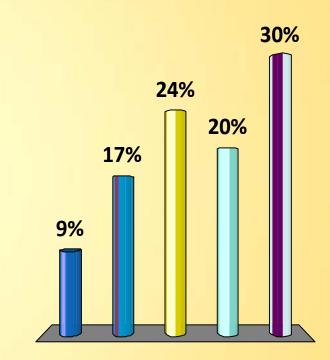
# 3. Conservation, Restoration, Management, and Monitoring

What is the most significant conservation, restoration, management, or monitoring strategy that would enhance water quality in the Patuxent River over the next 5 years?

# Conservation, Restoration, Management, and Monitoring

Fundamental Questions

- A. Where & why are counties falling short on WIPs (Watershed Implementation Plans) / TMDLs (Total Maximum Daily Loads). Emphasize the evaluation of BMPs (Best Management Practices) for agricultural practices & engagement of the agricultural community to promote change?
- B. How do we move across policy "stovepipes" or structures to address cross-cutting goals wherein one management action may have unintended consequences which are contrary to other goals in tidal waters?
- C. How do we engage the public through education, knowledge, & attitude?
- D. Can we put together a dynamic, complete, & current database to reveal gaps in the data in order to determine additional research needs?
- E. How can we make integrated local demonstration projects to show stakeholders of the Patuxent River watershed that effective land management can improve the social & economic value of the land?



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Most Fundamental Question

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