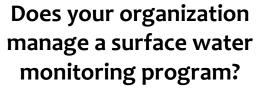
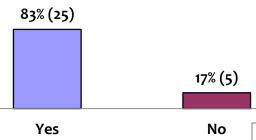
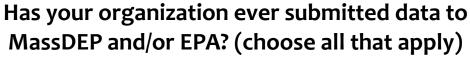
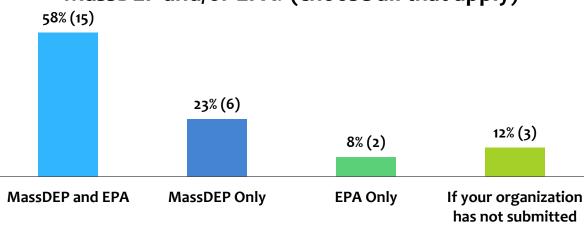
Water Quality Monitoring

Vision Workshop November 29, 2017 Watershed Planning Program

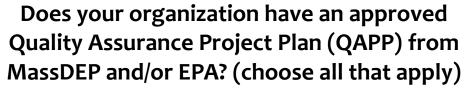


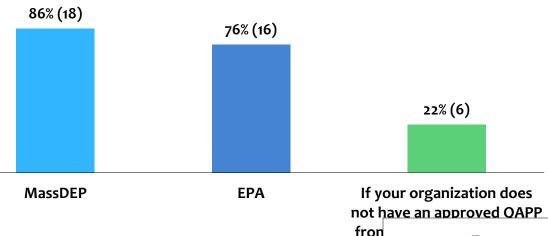




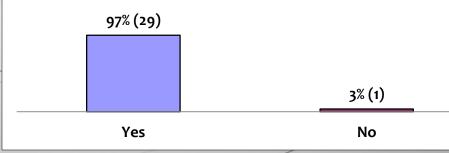


data to MassDEP and/or EPA, why not?

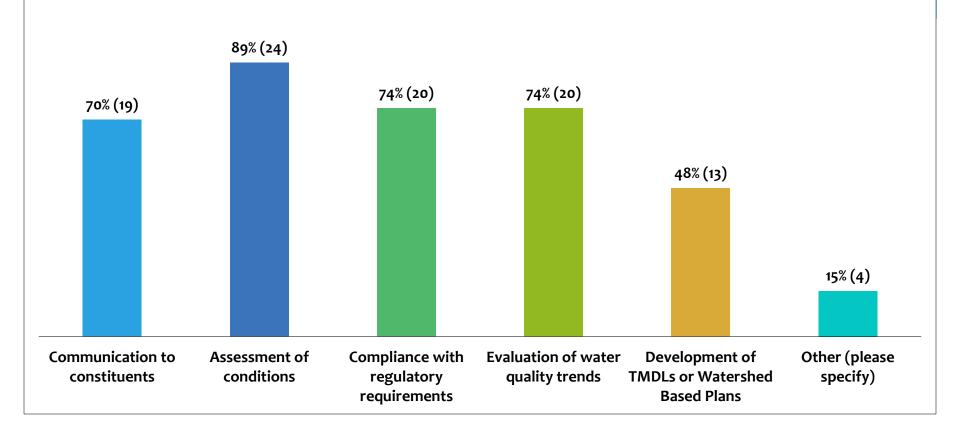




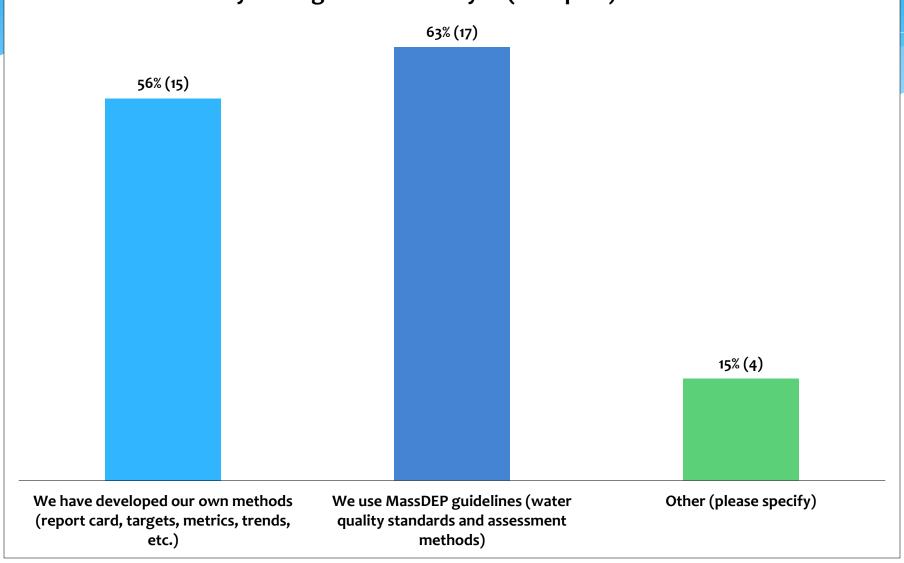
Does your organization analyze (interpret) collected data?

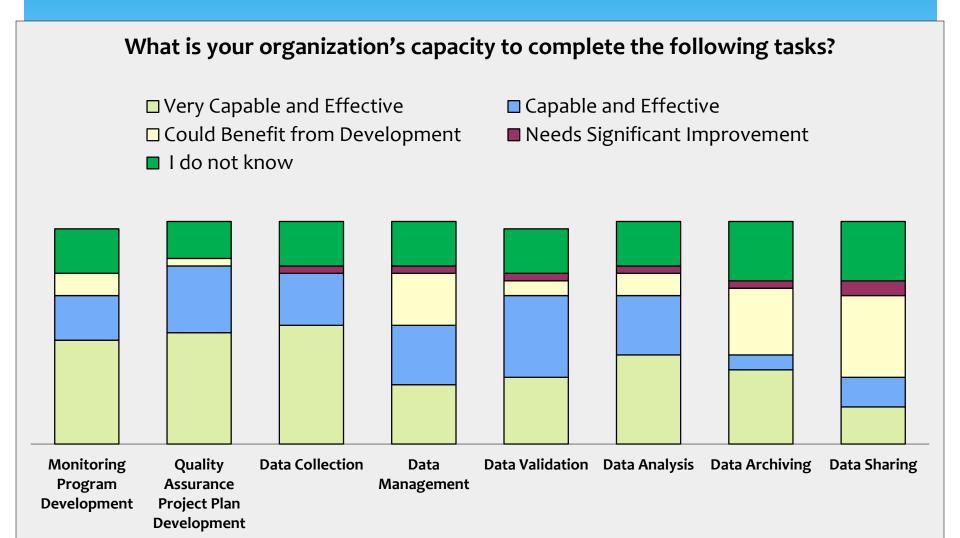


If your organization analyzes (interprets) collected data, what is the goal of the analysis? (choose all that apply)









Workshop Questions: Monitoring

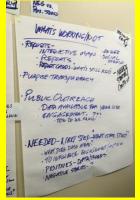
- * What parameters do you monitor?
- * What questions are you trying to answer through your monitoring program?
- * Do you share your data? With whom? How do you share data?
- * What have you found that works in your programs? What hasn't worked?





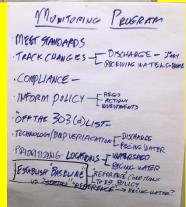














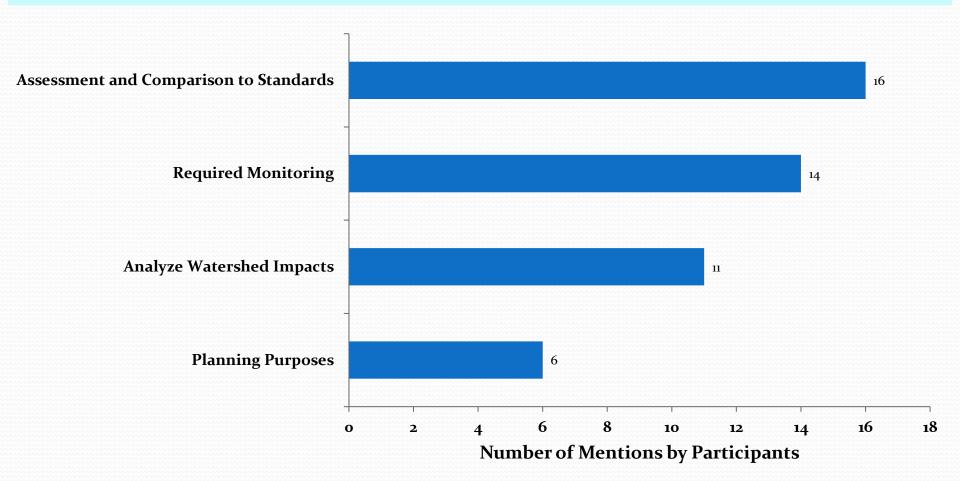


What parameters do you monitor?

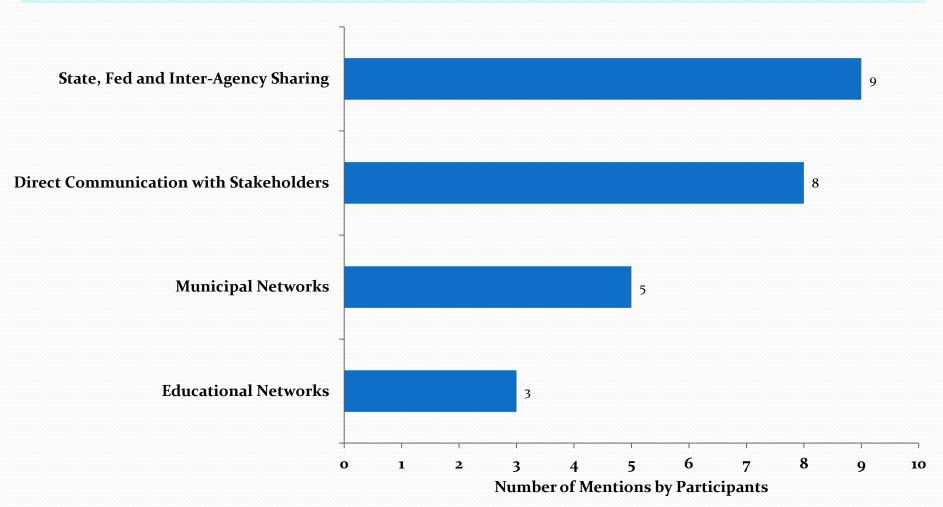


- Aesthetics
- Bacteria
- Biomass
- Biota
- DO, T
- Habitat
- Hydric soils
- Metals
- Nutrients
- Shellfish

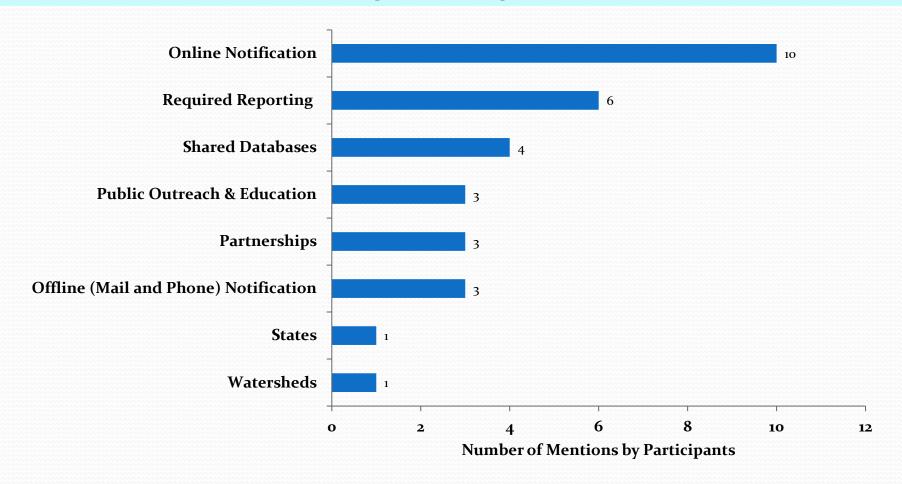
What questions are you trying to answer through your monitoring program?



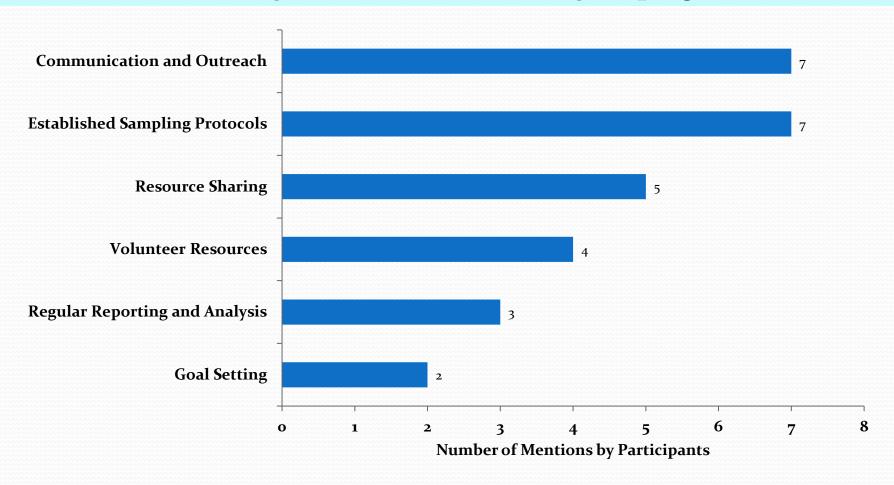




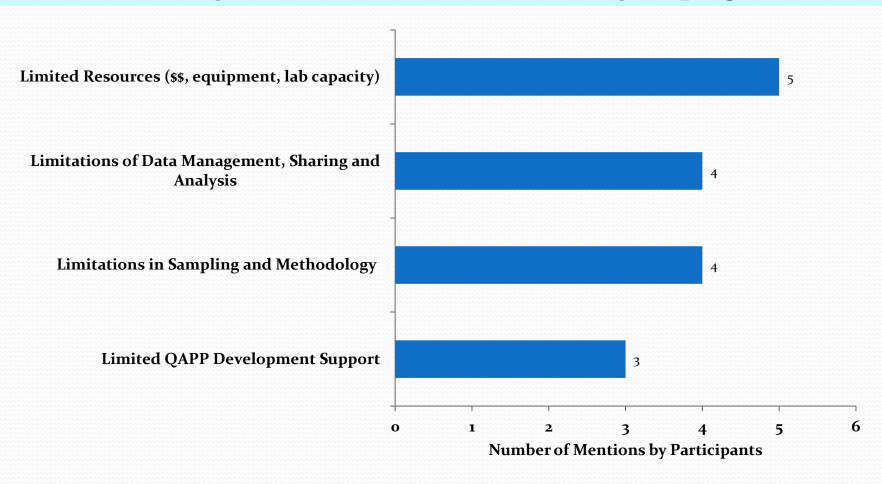
How do you share your data?



What have you found that works in your program?



What have you found that does not work in your program?



Workshop Input: Summary

What key things were identified from the Monitoring session?

- The most common reasons for monitoring were to determine WQ status, meet regulatory requirements (e.g., permitting) and inform stakeholders (stewardship).
- A wide variety of parameters are monitored in both shortand long-term programs.
- Anything regarding data was the weakest element across programs, particularly data sharing.

Workshop Input: Summary

What key things were identified from the Monitoring session?

- Communication/outreach and established sampling protocols were the two things that worked best.
- The Limiting Factor: We all need more resources!



Programs and Monitoring

Monitoring Goals Grouped by Space and Time Scales				
Time Scale/ Space Scale	Statewide (Superbasin)	Basin	Local (Municipal scale or smaller)	
Long Term (> 20 years)	Contaminant Loadings Program Success Emerging Issues (atmospheric deposition) Reference Sites Water Quality Standards (Statewide Criteria and Policies)	Multiple Project/ Program Success		
Intermediate Term (5-20 years)		Restoration Program - Point Source - Nonpoint Source (major urban areas) Project Success Emerging Issues (PPCPs, Estrogen Imitators) Water Quality Standards (Site Specific Criteria)	Restoration Program - Nonpoint Source (319, 604(b), 104(b)(3)grants)	
Short Term (≤ 5 Years)		Assessment NPDES Permits	Restoration Program - Nonpoint Source (Hot Spots, BST, DOT, Invasive Species, NRCS (WHIP, EQUIP), Riparian Areas)	

Opportunities for Partnering

A A				
Programs and Partnerships				
Program	Goal	Partner	Strategy	
Statewide Strategic	Loading Sites	USGS	USGS 8 primary sites	
Monitoring		NEIWPCC	WPP 15 secondary sites	
	Reference sites	US EPA	NEON	
		Academia	Climate Change Programs	
Restoration Program	TMDL Program	Consultants	CRWA for Charles	
		Municipalities NGOs		
Assessment Drogram	aorb	US Army Corps Engineers	ACOE- project sampling	
Assessment Program	305b	NGO	NGO-5 sub basins/ basin	
		NGO	(OARS/NRWA/BC)	
	Permitting	Municipalities	5 upstream/ downstream sites/basin	
			Model California Program	
Nonpoint Source Program	Grants performance	Consultants	Contracts for services	
	Local Issues	US NRCS	California Trash TMDL	
		MassDOT	CT DEEP Riffle Bioassessment	
		MassDER	by Volunteers	
		Phase II Permittees	City of Fitchburg/NRWA BST	
		NGOs	SMART Summits DER RIFLS	
			DEK KILT?	

Questions for you:

- Did we capture all the highlights?
- Do you wish to add anything?

