# CT NERR Professional Development Needs Assessment: Survey Results







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#### **Acknowledgments and Study Partners**

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Responsive Management



#### **Presentation Overview**



- > Who Did We Talk To?
- ➤ Key Survey Findings
  - Organizational Information
  - Training Needs
  - > Barriers to Training
  - > Training Logistics
  - Education Market Analysis Findings
- Recommendations

#### Who Did We Talk To?



#### Survey Respondents' Organization Types (by frequency)



- Nonprofit staff (47)
- Municipal staff (27)
- Volunteer for conservation organization (17)
- Land trust committee member (13)
- Elected or appointed official (8)
- Municipal commission (volunteer) (7)

- State agency staff (34)
- Academia (27)
- Consultant (15)
- Regional agency / organization staff (10)
- Federal agency staff (7)
- Tribal member / government (3)



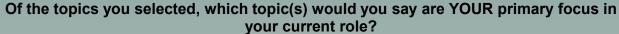
#### Write-in responses of organizations from a sample of nonprofit respondents.

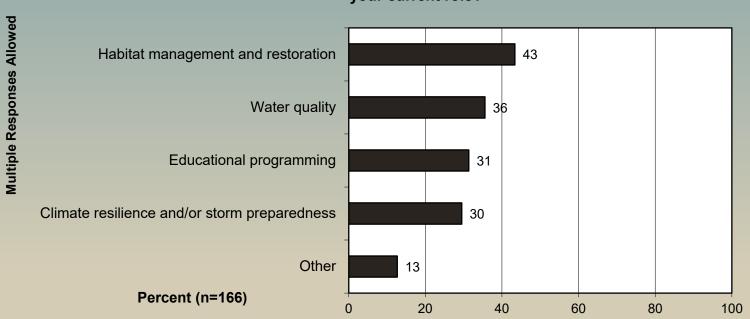
Nonprofit Organizations				
CT RC&D	Alliance for the Mystic River Watershed	Ducks Unlimited		
Save the Sound	Long Island Sound Study	CT Audubon Society		
CT Audubon Society, Roger Tory Peterson Estuary Center	Save the Sound	Eastern CT Conservation District		
Aquarium	Connecticut Sea Grant	TNC		
National Audubon Society	Connecticut River Conservancy	Remote Ecologist		
The Maritime Aquarium at Norwalk	Sustainable CT	Denison Pequotsepos Nature Center		
CT Land Conservation Council	Connecticut River Museum	The Nature Conservancy		
CT Sea Grant	Save The Bay - Narragansett Bay	Farmington River Watershed Association		
New England Science and Sailing	Salmon River Watershed Partnership	Alliance for the Mystic River		
The Nature Conservancy	Mystic Aquarium	New England Science & Sailing Foundation		
The Conn Council of Environmental Quality	NEIWPCC	Save the Sound		
Great Island Foundation	National Audubon Society	Project Oceanology		
Community Foundation of Eastern Connecticut	RiverCOG	Eastern CT Conservation District & The Colchester Land Trust		
Ducks Unlimited	The Maritime Aquarium	CT Conference of Municipalities		



### Key Survey Findings: Organizational Information

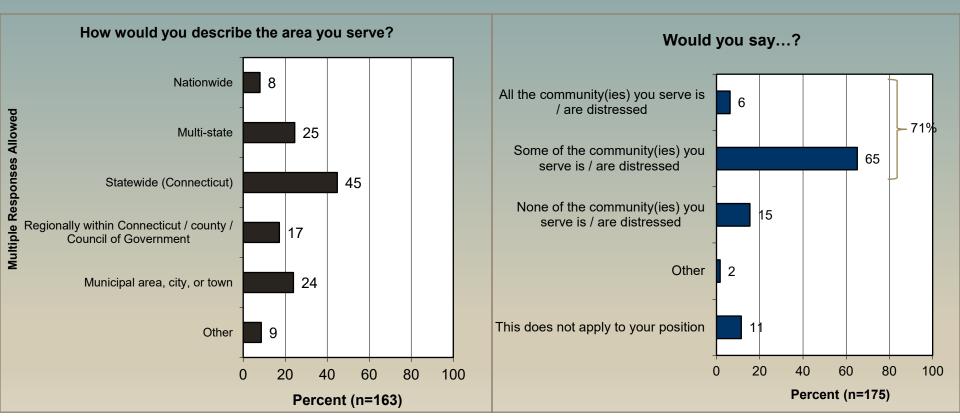
### Organizational focus is often split among multiple topics, while the primary topic of individual focus is most often habitat management and restoration.







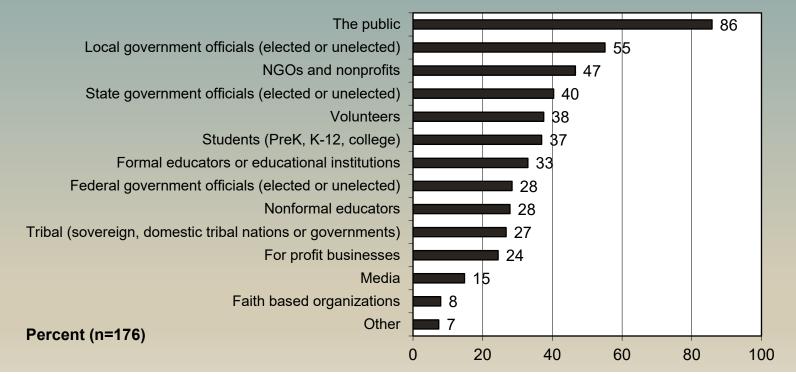
## Most respondents serve the entire state of Connecticut, and many respondents are serving distressed communities.





Respondents were given a list of possible audiences, from which they could select all that applied. A large majority are serving the general public.

#### How would you describe the audience you serve?



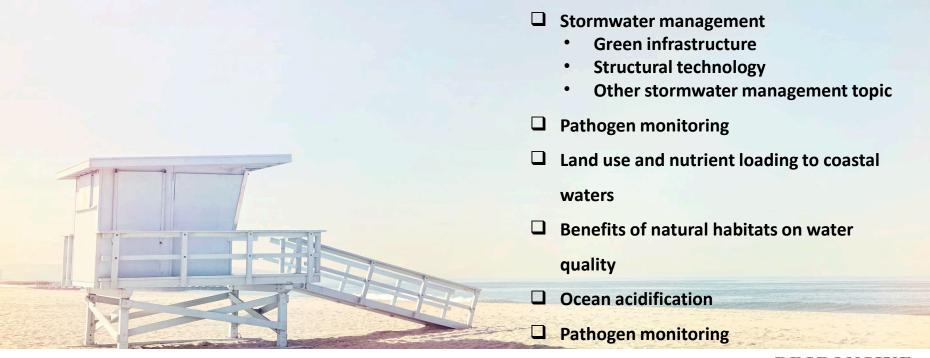


## **Key Survey Findings: Training Needs**



#### WATER QUALITY TOPICS

Training topics were categorized into the 3 larger schemes established by CT NERR staff (and asked about earlier in the survey). Note that because education questions were in their own market analysis component, they were not included in these training questions.





## Habitat Management and Restoration Topics





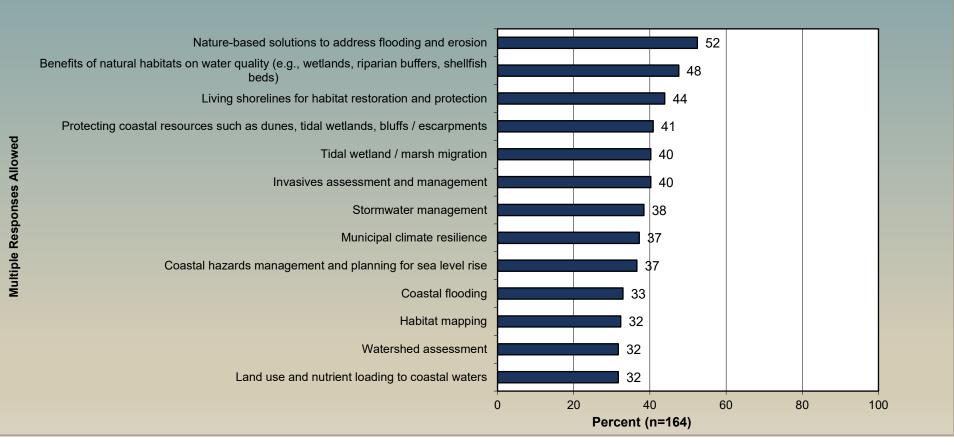
#### Climate Resilience and/or Storm Preparedness



- Coastal flooding
- Coastal hazards management and planning for sea level rise
- Nature-based solutions to address flooding and erosion
- Green infrastructure/stormwater management
- Living shorelines techniques
  - Site assessment
  - Design criteria
  - Permitting
  - Monitoring protocols
  - Use of reef balls or other artificial reef components
- Other living shoreline technique topic
- Other nature-based solution to address flooding and erosion topic
- Municipal climate resilience
  - Zoning for climate resilience (updates and review of regulations, codes, and ordinances)
  - Vulnerability assessment
  - Other municipal climate resilience topic

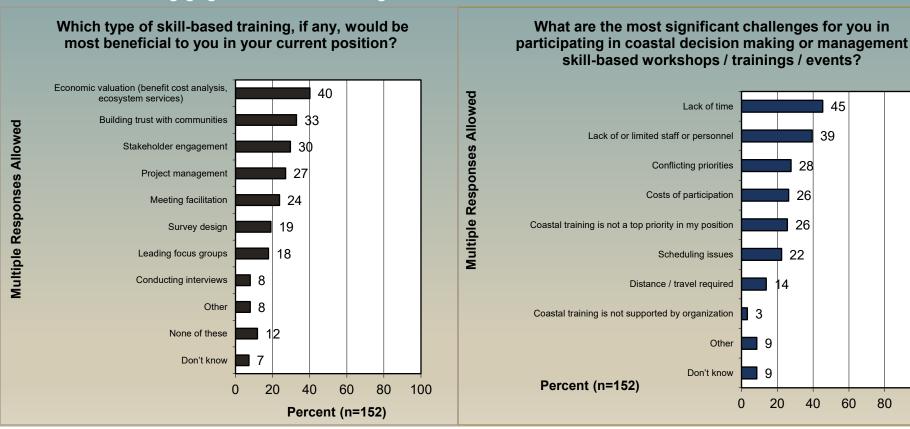


#### On which topics would you benefit from training (e.g., workshop, site visit, and/or direct technical assistance)?





When asked about their needs for skill-based training, economic valuation (benefit cost analysis, ecosystem services) was the top response. Other responses that were selected by more than 30% of respondents related to better engaging audiences and building trust with communities.





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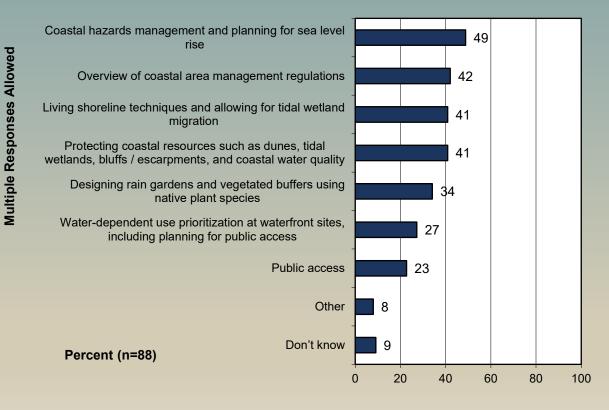
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70% of respondents who indicated they could benefit from training on public access do not feel there is enough public access in the town where they work.

When these respondents were further asked about their familiarity with the Coastal Public Access Guide, a large majority (65%) said they are not familiar with the Guide.

In your opinion, which of the following coastal land use topics would be most beneficial for training at the local / municipal level? (Asked of municipal commission members or staff, land trust members, nonprofit staff, consultants, and volunteers.)

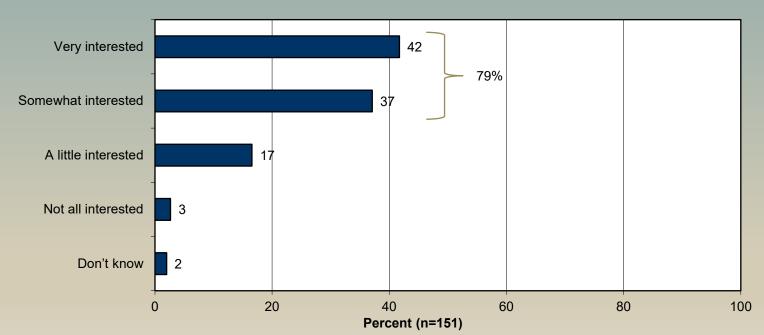




### Key Survey Findings: Barriers to Training

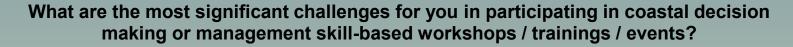
While 56% of respondents have not ever participated in a training (e.g., a workshop, technical assistance, site visit), there is a great deal of interest in attending trainings (79% said they are *very* or *somewhat* interested in attending a coastal training).

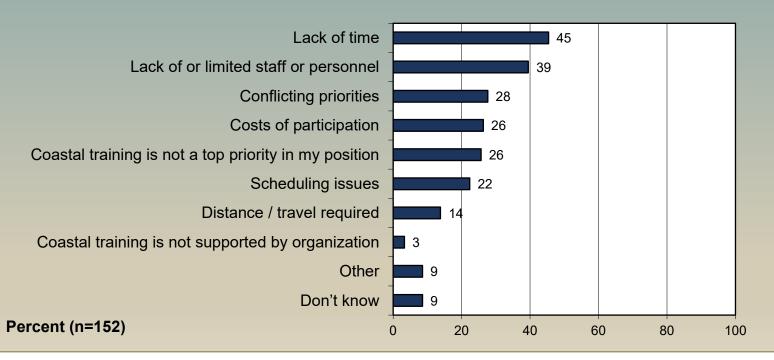
How interested are you in attending a coastal training? Would you say you are very, somewhat, a little, or not at all interested?





Multiple Responses Allowed



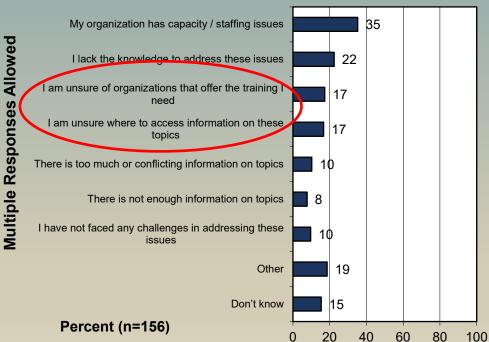




Most respondents are at least somewhat familiar with the Reserve, although questions about barriers to addressing their most significant challenges indicated that some might not be as aware of the services and programs offered through the Reserve.



#### What are the most significant challenges you face in addressing these high priority issues?





## **Key Survey Findings: Training Logistics**

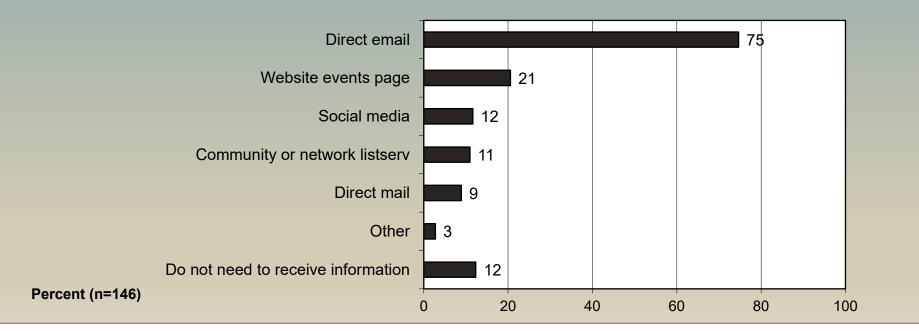
For the most part, responses to specific questions about the timing, location, and logistics of training showed clear consensus that can be used by CT NERR to plan and schedule coastal and skill-based trainings.

Training Preferences			
Topic	Top option	Percent selected top option	
Travel distance	31 to 60 minutes of travel	Selected by 51% of respondents	
Location (in-person, virtual, etc.)	In-person event – field trip	Selected by 49% of respondents	
Length	Half day (3-4 hours)	Selected by 67% of respondents	
Time of day	Morning	Selected by 64% of respondents	
Season	No preference (among seasons, fall was selected most often)	Selected by 43% of respondents	
Encouraging incentive	Food and drink	Selected by 34% of respondents	



In which of the following ways do you like to receive information about coastal training and education opportunities, announcements, and updates?

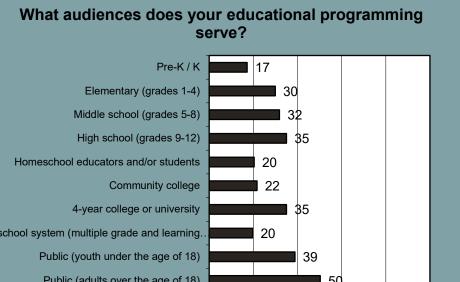
**Multiple Responses Allowed** 



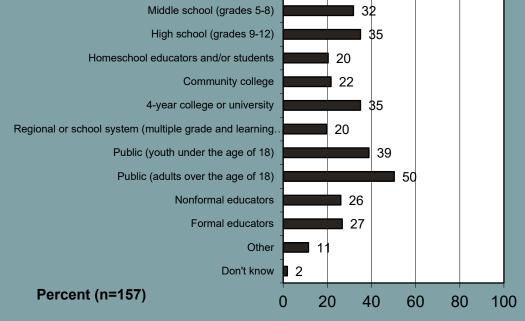


### Key Survey Findings: Education Market Analysis Findings

Among those who focused on educational programming, watersheds and habitats/restoration were the most common educational programming topics regardless of audience.



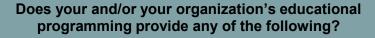
Educational Programming for Each Audience		
Audience	Top program or activity provided	
Pre-K/K	Emotional connection to nature, fisheries/wildlife ecology, nature-inspired art, habitats/restoration	
Grades 1-4	Watersheds	
Grades 5-8	Watersheds	
Grades 9-12	Watersheds	
Homeschool educators and/or students	Fisheries/wildlife ecology	
Community colleges	Watersheds	
4-year colleges	Habitats/restoration	
Regional or school systems	Habitats/restoration	
Public (youth under the age of 18)	Watersheds, Habitats/ restoration	
Public (adults over the age of 18)	Habitats/restoration	
Nonformal educators	Habitats/restoration	
Formal educators	Watersheds	

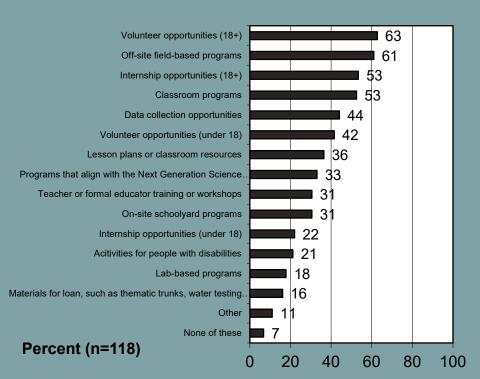


**Multiple Responses Allowed** 

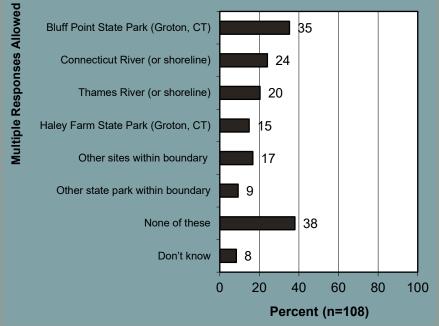


While off-site field-based programs are offered by more than half of those who provide educational programming, more than 1/3 do not use the Reserve sites for educational programming.





From the following list, please select any Reserve sites that have been used or are currently being used in your educational programing.





When asked about gaps in teacher training and educational programming that the Reserve can help with, responses were varied; however, there were some common themes.

Data gathering and sharing of data needs better coordination— while there are many groups that have the opportunity to gather data, a way to share and better use the data is needed.

Meeting spaces and help with event logistics would benefit educators.

Teachers need resources.

Educators need access to the Long Island Sound itself.

There is a need for information about pollution, particularly non-point source pollution (e.g., animal waste, agricultural runoff).

There is a need for integrating nature into curriculums.



## Recommendations



- > Familiarity with CT NERR is high
- Being unsure of where to access information is a barrier to addressing priorities
- Being unsure of organizations that offer information is a barrier to addressing priorities



Market programs and resources

- Respondents lack time
- Respondents lack capacity



Provide materials and brief skill-based trainings

- ➤ Direct emails are the preferred method of receiving communication about coastal training and education opportunities, announcements, and updates
- > A smaller number prefer information on website events page



Send direct emails



➤ Priority topics are nature-based solutions to address flooding and erosion; benefits of natural habitats on water quality (e.g., wetlands, riparian buffers, shellfish beds); living shorelines for habitat restoration and protection; protecting coastal resources, such as dunes, tidal wetlands, bluffs/escarpments; tidal wetland/marsh migration; invasive assessment and management; stormwater management; municipal climate resilience; and coastal hazards management and planning for sea rise



on those topics selected by 35% or more of respondents

- Changes in precipitation and sea level rise are concerns for municipalities
- ➤ Current training needs among municipalities are also coastal hazards management and planning for sea level rise
- Overlaps with municipal research conducted in 2017



Focus municipal trainings on sea level rise and coastal hazard management

- ➤ Respondents often work with the public and want skill-based trainings and support to build community trust
- Continue to develop preexisting relationships with trusted community leaders and communities
- Information exists that can be built upon



Connect with community leaders



Clear preferences for time of day, length of training, location of training, and incentives



Build trainings around respondent preferences

- Respondents indicated that place-based learning opportunities are a gap in teacher education and programming
- The Reserve offers sites for place-based learning
- Find out who is using Reserve sites and for what purpose
- ➤ This can help leverage partnerships and fulfill education gaps



Find out more about respondents who use the Reserve sites for educational programming



## Questions?

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