DCR's Research Initiative Stewardship Council Meeting -December 8, 2022



dcr Massachusetts

DCR'S MISSION:

our natural resources

To protect, promote and enhance our common wealth of natural, cultural, and recreational resources for the well-being of all

Our Core Principles:

Provide access to a diversity of outdoor recreational experiences & unique landscapes



Conserve lands, water, and forests by integrating science, research, and technical expertise into the management of

vance climate change mitigation and adaptation efforts by implementing stainable practices & advancing resiliency

assets, & resources





across our infrastruct.

Support healthy communities by providing laces for people to connect with nature and each other

Inspire generations of stewards

by recognizing and honoring our legacy through partnerships, public * engagement, and education





Conserve lands, water, and forests

by integrating science, research, and technical expertise into the management of our natural resources





12. Create an agency-wide research agenda and implement a knowledge management system to share and apply research findings

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Massachusetts

STRATEGIC READINESS ROADMAP

JUNE 2022

- Advance climate-based resource management efforts
- Integrate best management practices into conservation efforts
- Develop repository of scientific information to incorporate into DCR's work





























Focus Areas:

- Research Office
- Research Permits
- Research Survey
- Research Symposium





Research Office

- Established a research office that will support staff throughout DCR
- ✓ Developed goals for the office
- ✓ Created a job description for Research Director

MassCaree	rs					
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- Position posted just over 2 weeks ago
- 20 applications received so far

Research Permits

Massachusetts

Developed a GIS-based dashboard for staff to view research on DCR properties
 Working closely with EEA IT to update the current research permitting system



Research Survey

✓ Current extent of DCR internal research

- ✓ Capture the breadth of the types of research and monitoring staff are conducting
- Understand the agency's research needs and barriers

smartsheet

Tell us about your Research!

Greetings DCR Innovators!

In order to develop a research framework for the agency, DCR's research team is reaching out to staff about the types of research being conducted on the land DCR manages. The following survey will help theteam understand the amount and nature of "research" being conducted by DCR staff across the state.

Perhaps you think your work at DCR doesn't seem like traditional research. However, if you're gathering data, you are collecting valuable information that's an important part of research.

Examples of "research" activities may include but are not limited to:

- Taking measurements of a resource, e.g. collecting water quality samples.
 Situational monitoring, e.g. recording plant life, trail use, or wildlife
- occurrences at a park.
- Documenting novel approaches to park operations, efficiencies, or effectiveness of materials and resources.
- Documenting visitor experiences or patterns to improve services and behavioral outcomes.

Your research may lead to significant improvements in the stewardship of DCR property or stimulate other ideas and open new lines of research for others. A summary of this survey will be presented at the 2022 Research Symposium (virtual) on December 6, 2022. We hope you'll attend!

If there are multiple people working on the same project or activity, **please** submit only one survey per project or activity. This survey should take less than 10 min to complete. We welcome your contribution to this initiative and thank you for your time.

Are you conducting research in your capacity as a DCR employee?

0	Yes
0	No
0	Unsure

Barriers/Comments:

Plea	se use this field to:
	 describe any barriers or challenges to conducting your research activity;
	· write if you'd like to be doing research but can't, and what your idea is if you
	like to share it;
	 provide comments.



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Research defined as:

- Collecting data
- Analyzing data
- Using data to draw conclusions







Research Survey Responses





80 Total Responses

Over 50% of people answering the survey are conducting research or monitoring!

36% of DCR research is being analyzed to help make decisions.

There is a lot of research and monitoring going on in Forestry (17) and with Water Resources (11).



Massachusetts





Research: Key Words

Describe your Research:

- Biodiversity
- Bird
- Carbon Stock

Climate Change (7)

- Coastal
- Ecology
- Forestry (16)
- Interpretive Programs
- Invasive Species (8)
- Long-term

• Water (12)

- Water Quality (8)
- Water Supply
- Visitor Services



BIG 5 topics in Yellow



tribe

48 Research Projects

How many FTE are working on your Research Project?

• 242 FTE conducting research on 48 projects

Are multiple DCR employees involved in your research activity?

- YES: 87.5 %
- NO: 12.5 %

Are you using seasonals to help with your project?

• 191 total seasonals involved with research





Research Needs

Data Climate Change Data Collection Public Outer Engagement Stakeholder Engagement

Water Quality

Researchers wrote 1,338 words 653 distinct Words

Words/Phases that reflect Research Needs

- Data
- Public
- Quality
- Stakeholder
- Climate
- Water
- Monitoring
- Equipment
- Land Management
- Water quality
- Data Collection
- Climate change
- Stakeholder engagement



Research <u>Barriers</u>



Researchers wrote 1,557 words 756 distinct Words

Words/Phases that reflect Research Barriers

- Support
- Results
- Equipment
- Seasonal
- Monitoring
- Funding
- Duties
- Training
- Capacity
- Communication
- Hiring
- Competing Duties
- Time and Funding



DCR Research Symposium!

December 6, 2022 9:00 am – 2:30 pm



- 230 attendees
- 30 presenters DCR staff & outside presenters
- EEA Undersecretary and DCR Commissioner kicked off virtual symposium
- Presented results of DCR Research Survey
- Keynote: Leading the Way with DCR's Shorebird Recovery Program







Topic areas:

Habitat Restoration (66 attendees)
Forest Ecology and Management (110)
Climate Adaptation (63 attendees)
Biodiversity (81 attendees)
Water Quality (47)

•Community Connections (75 attendees)





dcr Massachusetts "Quite Simply...Now THAT was time well spent! Thank you to all who organized today's event and to all of those who presented. I thoroughly enjoyed all the presentations. Well done!" "Thank you very much for organizing the research symposium. I learned a lot today"

WOW! What a great line up. It was a good variety of topics, I could not decide! Even though it was all day, it was so engaging and so well organized! <u>I can't wait to</u> <u>see what's next!</u>

"Congratulations on a great first research symposium. I thought it went very well!"



Next Steps:

- Symposium Survey
- Hire Research Director
- Provide baseline information to Director
- Offer Training to DCR staff on GIS-based application
- Continue working with EEA IT to integrate DCR's research permitting to the E-Permitting platform used across the Commonwealth
- Determine forum to highlight specific research at DCR



