Priority Science Needs for 2015

North Atlantic LCC Steering

Committee Meeting



Newport, RI April 22, 2015









2015 Science Needs Process

- More than 40 individuals
- 6 U.S. federal agencies, 1 Canadian federal agency, 7 state agencies, 6 NGOs (one based in Canada), and 4

Atlantic Coast Joint Venture

partnerships

Atlantic Coastal Fish Habitat Partnership
Canadian Wildlife Service
Connecticut DEEP
Delaware DFW
Ducks Unlimited
Eastern Brook Trout Joint Venture
Maine DIFW
National Park Service
National Wildlife Federation
Nature Conservancy of Canada
NatureServe
North Atlantic LCC staff

New Hampshire Fish & Game

New York DEC

Northeast Regional Ocean Council

NOAA

The Nature Conservancy

U.S. Army Corps of Engineers

U.S. EPA

U.S. FWS

USGS

Vermont Fish & Wildlife

Virginia DGIF

Wildlife Conservation Society

[Handout 19]

2015 Science Needs Process

- January Review and discussion materials posted
- February-March Teleconference calls w.
 3 technical subcommittees
- March 10-11 Joint meeting of Technical Committee & Science Delivery Committee
- March 12-18 Extended voting period for Technical Committee (34 votes rec'd)

2015 Science Needs Process

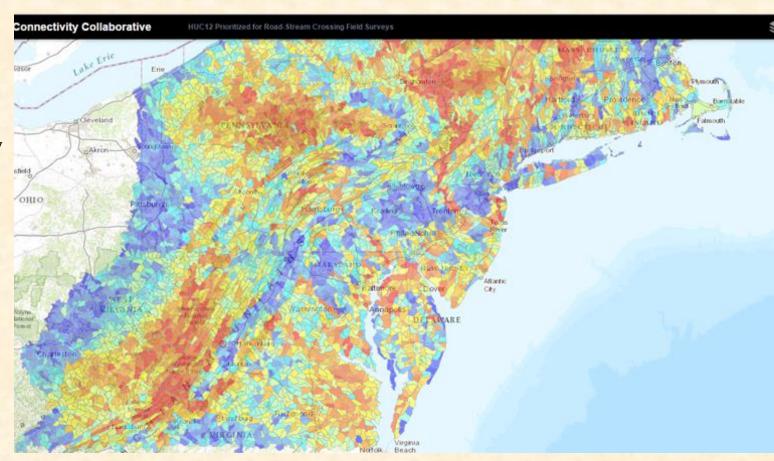
- March-April Staff work with Technical Committee to refine and clarify narrative descriptions for highest ranked science needs
- April 22 Highest rated science needs from the Technical Committee presented to Steering Committee [Handouts 20 & 21]

Rank	Topic	Relevance to Conservation Decisions	Status and Relation to Other Work	Potential Project Type	Approximate LCC Funding Level
1	Assessment of	Inform where to	Complements	Refine survey	\$100,000
	connectivity and	upgrade, restore,	large LCC	protocols, field	
	resiliency of	and repair tidal	aquatic	surveys,	
	tidally influenced	road crossings to	connectivity	incorporation of	
	road crossings	benefit aquatic	project for non-	data into	
		organisms and	tidal road	connectivity	
Education of	A NAME OF THE OWNER, WHICH	mitigate flood	crossings	prioritization	
		damage		tools	

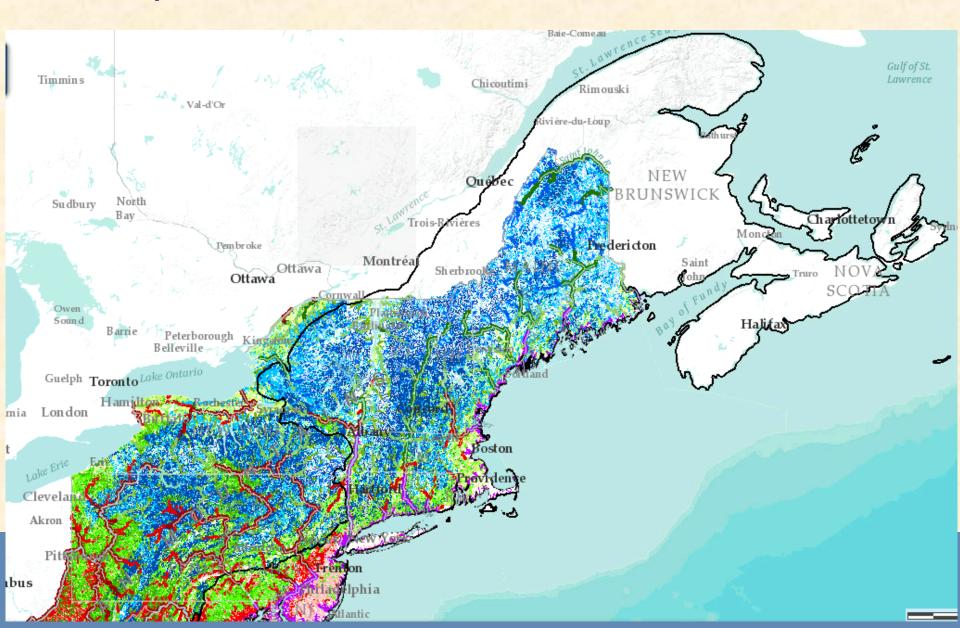
Add tidally influenced road crossings to aquatic connectivity project

Red - high priority for surveys

Blue - lower priority for surveys



2. Aquatic Classification for Eastern Canada



Rank	Topic	Relevance to Conservation Decisions	Status and Relation to Other Work	Potential Project Type	Approximate LCC Funding Level
2	Aquatic classification for eastern Canada	Foundation for regional-scale conservation planning and prioritization	Extends U.S. classification for Northeast and Appalachian LCC regions	A consistent, mapped classification of stream and lake features into recognizable categories	\$110,000
	North Atl	antic Landscape	Conservation C	ooperative	

Canadian Organizations Supporting Aquatic Classification Science Need

(in addition to Nature Conservancy of Canada and Canadian Wildlife Service)

- 1. The Salamander Foundation, Toronto Ontario (Tentative matching support of \$25,000)
- 2. Department of Fisheries and Oceans Canada
- 3. World Wildlife Fund Canada (commit technical expertise)
- 4. Canadian Rivers Institute (commit technical expertise)
- 5. Wildlife Conservation Society Canada (Two Countries One Forest)
- 6. Quebec Ministère du Développement durable, de l'Environnement et de la Lutte contre les changements climatiques (commit technical expertise)
- 7. Nature Trust of New Brunswick
- 8. Kennebecasis Watershed Restoration Committee, New Brunswick (in kind support offered)
- 9. U. of Prince Edward Island Community Environmental Liaison
- 10. Conseil de l'Eau Gaspésie sud (in kind support offered)
- 11. Conseil de l'Eau du Nord Gaspésie (in kind support offered)
- 12. Nashwaak Watershed Association Inc., New Brunswick



Rank	Topic	Relevance to Conservation Decisions	Status and Relation to Other Work	Proje	ential ct Type	Approximate LCC Funding Level
3	Planning for	Inform efforts to	Builds on	Field-ba	ased	\$115,000†
	marsh migration	mitigate future	marsh	surveys	near	
	with sea level	tidal wetland loss	resiliency	conserv	ed areas;	
	rise and	by identifying	project	maps of	f suitable	
	increased storm	potential areas	(Hurricane	areas fo	or marsh	Trail or and the
	surge	for upslope	Sandy) and	migration	on	
	Partie and a	marsh migration	other LCC			
			work	4-4-1		
					- NO.	TANK IS

Rank	Topic	Relevance to Conservation Decisions	Status and Relation to Other Work	Potential Project Type	Approximate LCC Funding Level
4	Vulnerability of	Begin integrating	Adds cultural	Regional	cultural
	cultural resources	cultural resources	resources to	assessment of	resources:
	to flooding;	into planning and	current LCC	cultural resource	\$25,000
	consistent	inform most	portfolio;	vulnerability to	floodplains:
	floodplain	important	complements	flooding;	\$100,000
	assessment	floodplains for	and refines	regional	
		conservation	terrestrial and	mapping of	
			aquatic	floodplains	
10	THE RESERVE		mapping		
		Landscane	e Conservation C		

Rank	Topic	Relevance to Conservation Decisions	Status and Relation to Other Work	Potential Project Type	Approximate LCC Funding Level
5	Evaluation of stream networks for climate resilience	Identify high- priority aquatic areas for long- term resilience	Adds to conservation design planning that incorporates terrestrial resilience	Regional map, spatial dataset and tool for stream resilience	\$100,000

Rank	Topic	Relevance to Conservation Decisions	Status and Relation to Other Work	Potential Project Type	Approximate LCC Funding Level
6	Rare plant prioritization	Prioritize conservation needs for rare plants	Complements LCC-supported assessment of animal species (SGCN)	Assessment of the conservation status of wild plant species across the Northeast	\$75,000

Rank	Topic	Relevance to Conservation Decisions	Status and Relation to Other Work	Potential Project Type	Approximate LCC Funding Level
7	Impact of sea	Project impact of	Builds on	Project future	\$80,000
	level rise and	changes in	Piping Plover,	availability of	
	storms on	stopover habitat	beach	shorebird	
	Atlantic Flyway	for use in	resiliency, and	stopover habitat	
	migratory	planning and	sea level rise	and impacts to	test meneral
	shorebird	management for	projects	shorebird	
	stopover habitats	beaches and tidal		populations	
1.3.32		flats			Maria de la compania

2015 Science Needs Voting

Topic	Budget	Relative Score	Rank
Tidal culverts and bridges	\$100,000	100	1
Aquatic classification - eastern Canada	\$110,000	88.0	2
Marsh migration	\$115,000	87.7	3
Consistent floodplain assessment + vulnerable cultural			
resources	100K + 25K	80.1	4
Freshwater resilience	\$100,000	65.6	5
Rare plant prioritization	\$75,000	54.3	6
Sea level rise + migratory shorebirds	\$80,000	54.0	7

2015 Science Needs Voting Cont'd

Topic	Budget	Relative Score	Rank
Marine Bird Distributions	\$80,000	40.3	8
Regional Forest Structure and Condition	\$125,000	38.5	9
Quantifying ecosystem services and benefits	\$100,000	38.1	10
	Scalable with level of		
Stream temperature network	demand met	28.0	11
Forest block prioritization	Not estimated	27.2	12