Lake Champlain Sea Grant 2011 NSGO Review

Program Officer - Nikola Garber, PhD

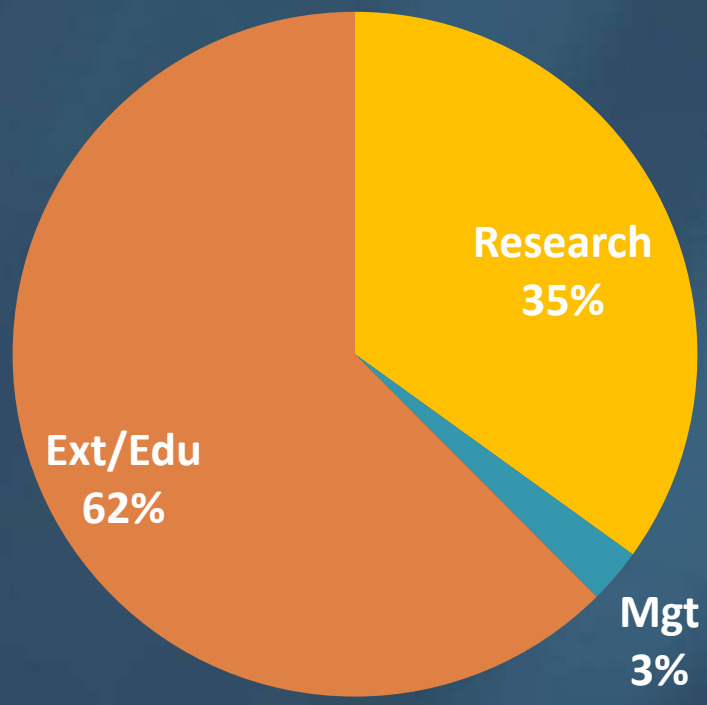
Program Management

- Management staff
  - Director, Mary Watzin, (0.2 FTE)
  - Director of Sea Grant Extension, Jurij Homziak, (0.8 FTE)
    - Malchoff designated interim Director of SG Extension - 1/15/11 to 8/15/11
  - Director of LCSG activities at SUNY Plattsburgh, Tim Mihuc, (0.06 FTE)

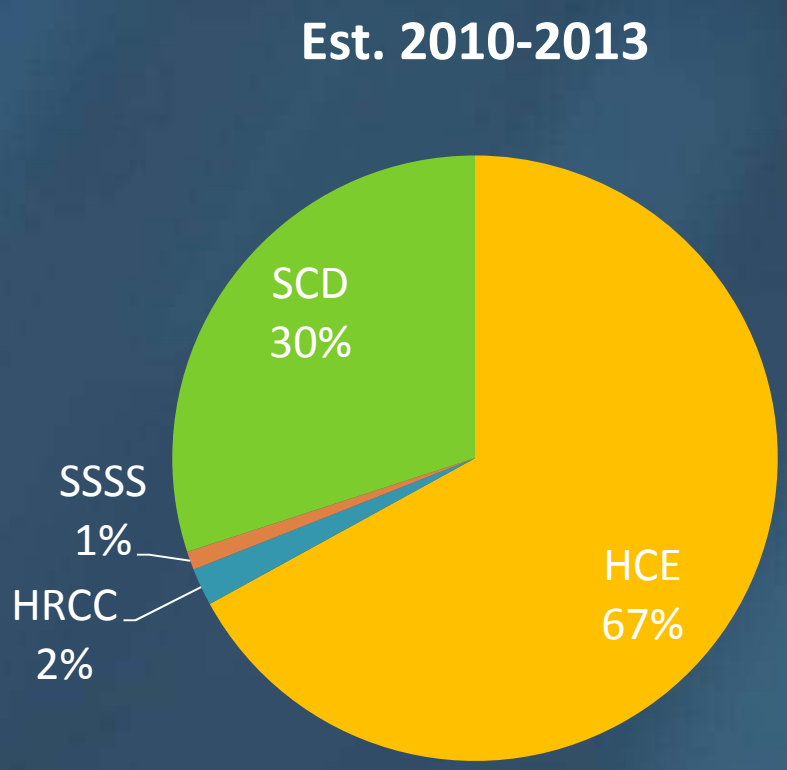
Functional Area	# of individuals	# of FTEs supported by SG	# of FTEs supported by match/leverage
Mgt/Admin	6	0.37	0.36
Comm.	0	0	0
Ext.	5	2.58	0.95
Education	0	0	0
Research	11	1.95	0.73

- Size of program: Small

Program Budget towards each Functional Area



Program Budget towards each Focus Area



Significant Program Changes
(since Jan. 2010)

- Working to more fully integrate the program across Vermont and New York
- Reconstituting membership in the Program Advisory Committee

Program Requested Changes to 2010-2013 Program Plan

- none

State Program Performance Measures

HCE	Three Towns adopt and install storm water reduction and NPS pollution prevention BMPs. 12 towns by 2013.
HCE	For targeted watersheds a 40% increase (300 households) in awareness among residents of the impacts of residential practices on NPS pollution, stormwater and water quality compared to the previous year's baseline. One watershed targeted each year 2010, 2011, and 2012.
HCE	a) LCSG supported research results or recommendations included in or cited by at least five planning, regulatory and/or action documents by 2011; b) By 2014 all participating Adirondack lake associations in the Champlain drainage receive Adirondack Park Agency general permits for management of aquatic invasive plants, following Lake Management Starter Kit guidelines developed by LC Sea Grant.
HCE	By 2012 all 6 state fish culture facilities in NY and VT, and 6 private aquaculture operations, applying knowledge of Viral Hemorrhagic Septicemia (type IVb) dynamics, transmission, VHS diagnostics and approved disease prevention, to prevent, control & contain the disease.

Contribution to National Performance Measures and Metrics

- 1000 Acres of degraded ecosystems restored as a result of Sea Grant Activities
- 360 Volunteer hours
- 1364 K-12 Student reached through Educators

Program Impacts

- Sea Grant helped towns and school districts in impaired watersheds eliminate the use of phosphorous fertilizer in routine grounds care.
  - By 2009 all 7 school districts changed from using phosphate-containing fertilizer to low input, no phosphorous grounds care practices.
  - In 2009 the two remaining municipalities that began trials in 2008 to evaluate cost, effectiveness and ease of use of phosphorous free fertilizer adopted low input grounds care practices.
  - By 2010, all five towns that responded to our 2008 outreach and education initiative had eliminated use of phosphorous-containing fertilizer in municipal grounds care.
  - Focus Area: HCE

Program Impacts

- Rain garden education and outreach efforts, coupled with LCSG technical assistance, significantly decreased untreated stormwater runoff form impervious areas in several impaired VT watersheds.
  - Focus Area: HCE
    - GOALS: Provide science-based information that will promote a healthy and diverse ecosystem and provide for sustainable human use and enjoyment of Lake Champlain, the basin and surrounding waters.

Program Impacts

- A state-wide (NY) regulatory system, useful at the state and local level, establishes effective barriers to the movement of invasive species and streamlines the identification and management of established populations.
  - Malchoff lead the Fish and Aquatic Invertebrates listing team (6/08 – 6/10) providing input to the NY Invasive Species Council's report
  - Focus Area: HCE
    - GOAL(S): Ecosystem-based approaches used to promote a healthy and diverse ecosystem and provide for sustainable human use and enjoyment of Lake Champlain, the basin and surrounding waters.

Program Impacts

- Constitutent Impact: "The [12/3/09]workshop provided significant new information on VHS and its potential management implications. Cutting edge information on an emerging disease is especially valuable in making management discussions. Often this type of information takes years to get out and by that time the information does get out it may be too late to be useful. Workshops on new disease issues and other emerging environmental issues allow more proactive management actions with the best available information. Thank you for your efforts. The information about egg disinfection lead us not to delay the decision to move the walleye program to our Ed Weed hatchery. We had already made the decision to have the Ed Weed Hatchery stock only Lake Champlain, but its information, like provided at the workshop, that reinforces those decisions". Tom Wiggins, Fish Culture Manager, VTFW, Waterbury, VT

- Focus Area: HCE
  - Goal: Restore coastal and aquatic ecosystems in the Lake Champlain basin

2009 Research Accomplishments

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- Used research results to prepare and distribute a "Cover Crop Best Management Guide" to 1000 farmers, Extension educators, Conservation Districts, Dura-Clubs, USDA and Provincial personnel, and crop consultants in the region. The practice will reduce the nitrogen (N) and phosphorus (P) losses by about 25%.
- Completed survey of Champlain Canal for nonnative invasive species