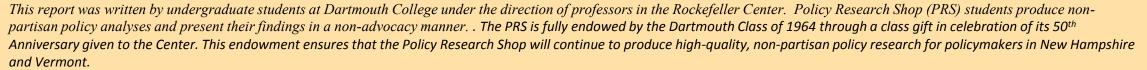
The Value of Lake Champlain

Presented to the Vermont House Committee on Fish, Wildlife and Water Resources

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Introduction

• Tens of thousands of tourists a year; cultural landmark

Currently facing a serious phosphorous pollution threat from nearby

farms and agricultural lands

Two main sources of pollution:

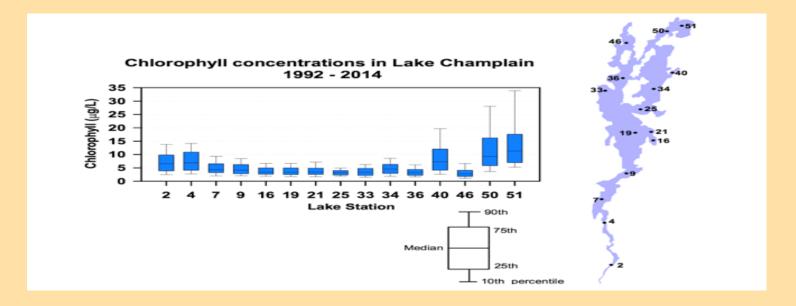
- Point Source (easily trace-able)
- Non-Point Source (harder to trace)
- Economic value of Lake derived from:
 - Water Quality
 - Property Values
 - Tourism (fishing and boating)
 - Qualitative factors



Property Values



- Avg. value in St.
 Albans Bay is
 \$219,000; avg. value
 in Malletts Bay is
 \$460,000.
- Georgia decreased the property value of 37 homes by \$50,000 each; \$1,850,000 lost in taxes.



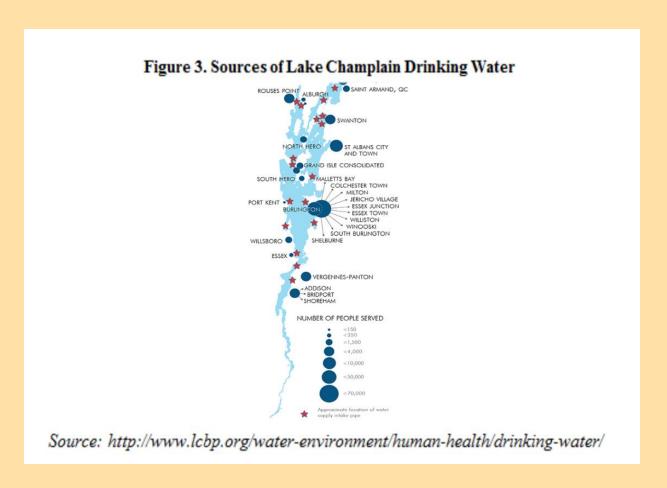
Property Values

- Study conducted by Professor Brian Voigt at the University of Vermont revealed several significant conclusions about property on the lake.
- A one meter decrease in Secchi disk depth decreases the value of a seasonal residence by \$53,000 and a single family dwelling by \$4,900
- A one meter increase in Secchi disk depth increases the value of a seasonal residence by \$61,000 and a single family dwelling by \$5,700.

Table 2: Potential Impacts on Properties Bordering Lake Champlain

Impacts	Single Family Dwelling	Seasonal Residence
Future Phosphorous Impact	-\$4,900	-\$53,000
TMDL Clean-Up Impact	+\$5,700	+\$61,000

Water Quality



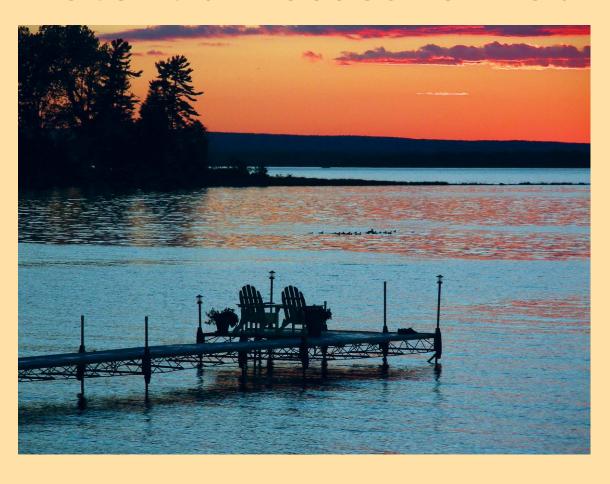
- Roughly 20 million gallons pumped from Lake Champlain daily
- Provides 145,000 people with drinking water (approximately 20 percent of the Basin population)
- Lake Erie algae bloom left 500,000 people without drinking water

Tourism

- \$2.5 billion from tourism in Vermont
- \$300 million generated by Lake Champlain
 - \$72.75 million in spending and nearly 1,070 jobs
- Lake Champlain State Parks bring in \$629,000 annually



Potential Losses for Tourism



- One-meter decrease in water quality as benchmark
- Could lead to \$110,544
 decrease in room
 expenditures in August and
 the loss of 195 full-time
 jobs
- \$16.8 million annual economic reduction

Fishing

Table 3. Fishing Spending on Lake Champlain

Total spending	bv	anglers	on Lake	Champlain
	~ .,		V	O

Spending on nondurable goods such as tackle, bait, and refreshments

Spending on durable goods such as fishing rods and fishing boats

Number of fishing and fishing-related businesses within ten miles of Lake Champlain

Percentage of fishing-based income that owners of these businesses estimated were due to anglers fishing Lake Champlain \$205 million/year

\$100 million/year

\$105 million/year

98

78 percent of \$7.2 million (\$5.6 million)

Source: Lake Champlain International, Inc. "Fishing: Economic Fa\$t Fact\$," 2010.

Results of Burlington Interviews

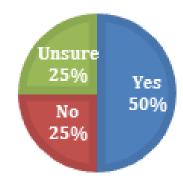
- Interviewed eight local business owners/managers in Burlington
- Perception of water quality evenly distributed
- Local perception differs from tourist perception
- Most effective technique for raising funds be direct-mail campaign, to not alienate tourists

Quotes

- "Our vision of what's floating around in there is not always the best"
- "I have never really been disgusted with the Lake at any point."

Results of Burlington Interviews

WOULD YOU VOTE FOR A ONE PERCENT INCREASE IN YOUR PROPERTY TAXES FOR THE CLEAN-UP?

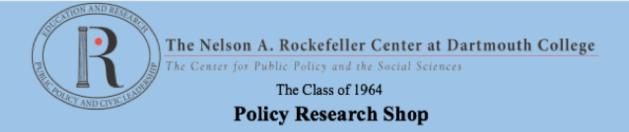


- "One percent:" arbitrary benchmark value
- Generally mixed
- Hypothetically agreeing to a tax is easier than actually paying it
- Remember: these are results in Burlington
- What about areas that do not border Lake Champlain?

Results of Town Manager Interviews

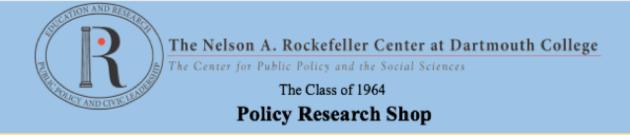
- Interviewed four town managers: Norwich, Westminster, Bethel, and Wilmington
- Recognize importance to State, but struggle to see importance to respective towns
- Act 64: Point of frustration
- Suggests that any statewide tax increase would face less opposition if based on proximity to the Lake





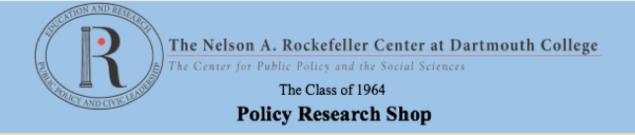
Annual Value & Property Values

Aspect Related to Lake Champlain	Annual Value
Drinking Water	\$75,000,000
Tourism	\$300,000,000
Lake Champlain State Parks	\$629,000
Fishing	\$205,000,000
Current Estimated Total	\$580,629,000
Seasonal Property Value Increase if Cleaned	+\$183,000,000
Minimum Value of a Clean Lake Champlain	\$763,629,000



Annual Losses & Lost Property Value

Aspect of the Lake Affected by Pollution	Loss in Annual Value	
Seasonal Property Value Decrease	-\$159,000,000	
Recent Decrease in Georgia Property Values	-\$1,850,000	
Lodging (one-meter water clarity decrease)	-\$221,088	
Tourism (one-meter water clarity decrease)	-\$16,800,000	
Total Decrease in Value of Lake Champlain	-\$177,871,088	



Moving Forward

- Tourism, Fishing, and Property main drivers of value
- Although we give Lake Champlain a "value," cannot capture what the Lake means to many people in monetary terms
- That said, Vermonters that are removed from the Lake may have to be taxed less
- Direct-mail campaign may be most effective way to notify Vermont public without harming tourism industry