



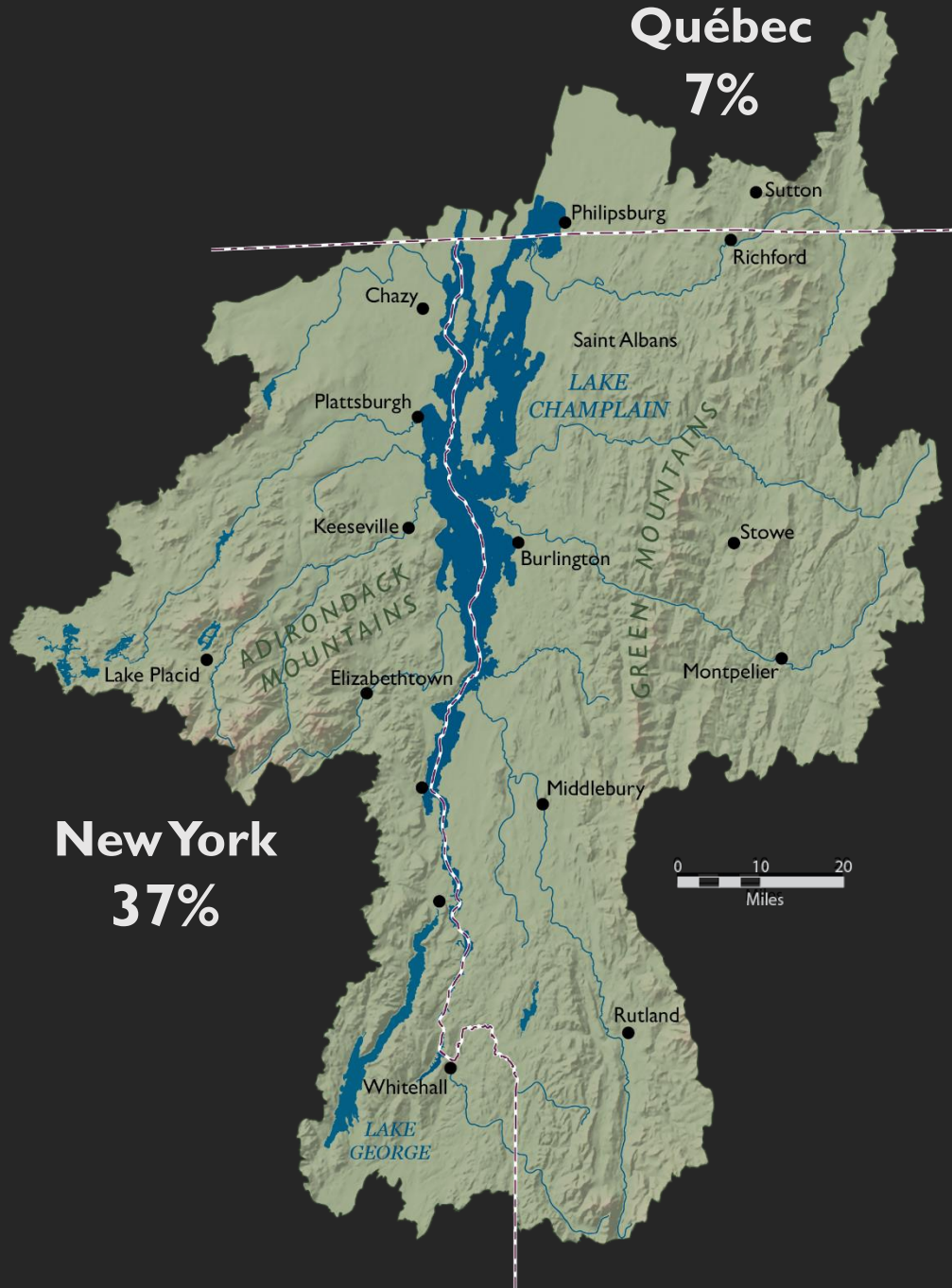
# 2018

## **STATE** of the **LAKE** and **Ecosystem Indicators Report** for Lake Champlain



Photo: Perri Siverhart

**Québec**  
**7%**



**New York**  
**37%**

**Vermont**  
**56%**



Inside cover



Photo: LCBP

# 5 Lake Segments

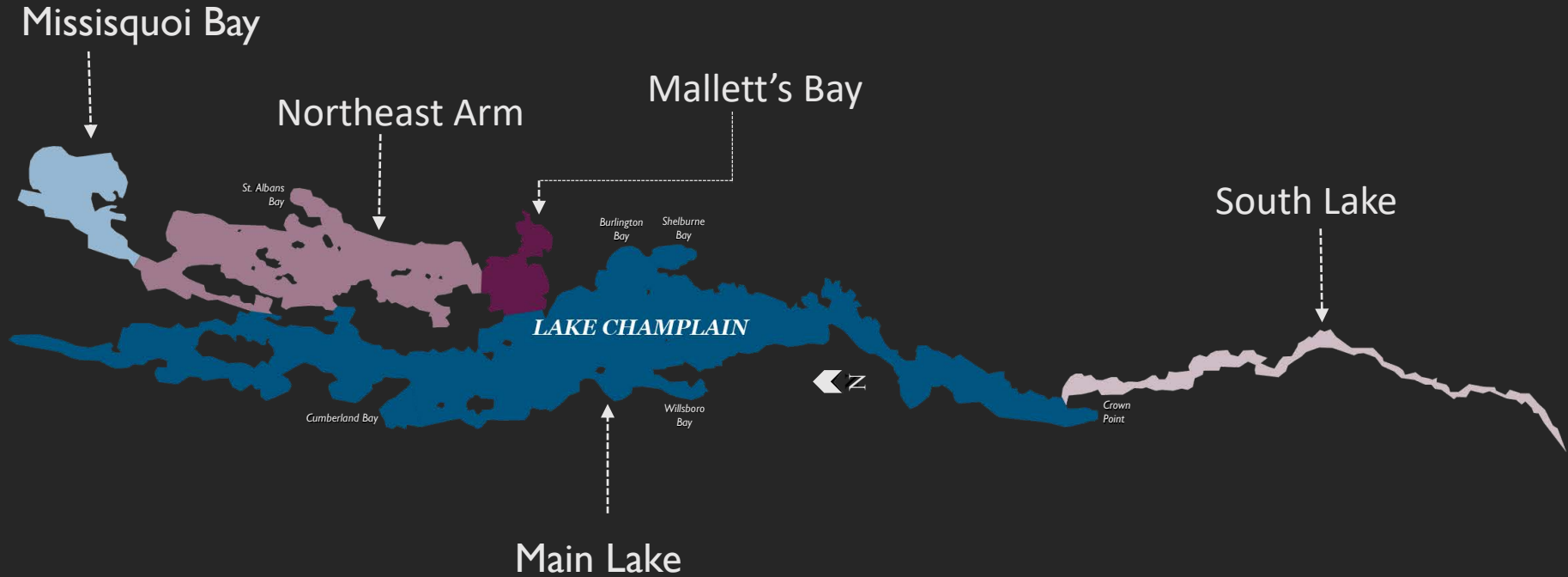




Photo: LCBP

Clean Water





Photo: LCBP

# Public beach closures on Lake Champlain, 2015-2017



## STATUS

Closures between Memorial Day and Labor Day



**GOOD:**

Closed 0-5 days



**FAIR:**

Closed 6-19 days



**POOR:**

Closed 20+ days



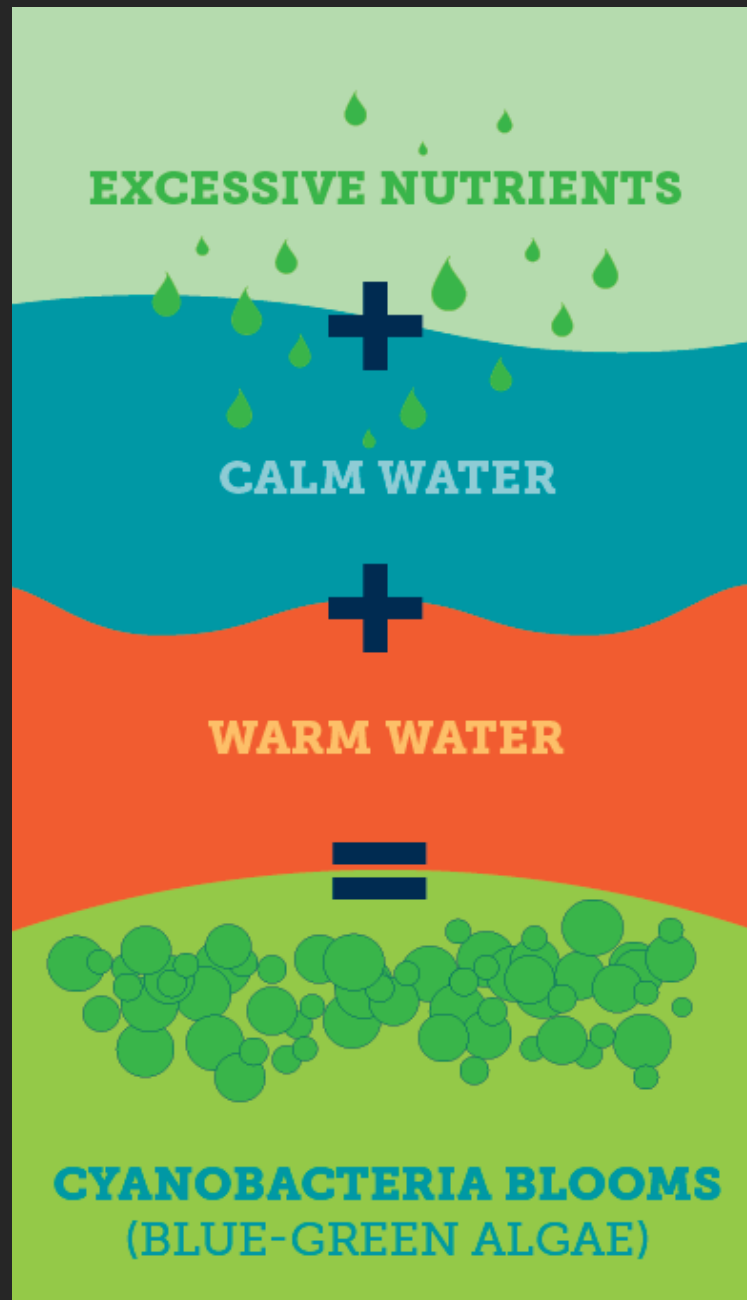
*Cyanobacteria  
closure*



*Coliform bacteria  
closure*

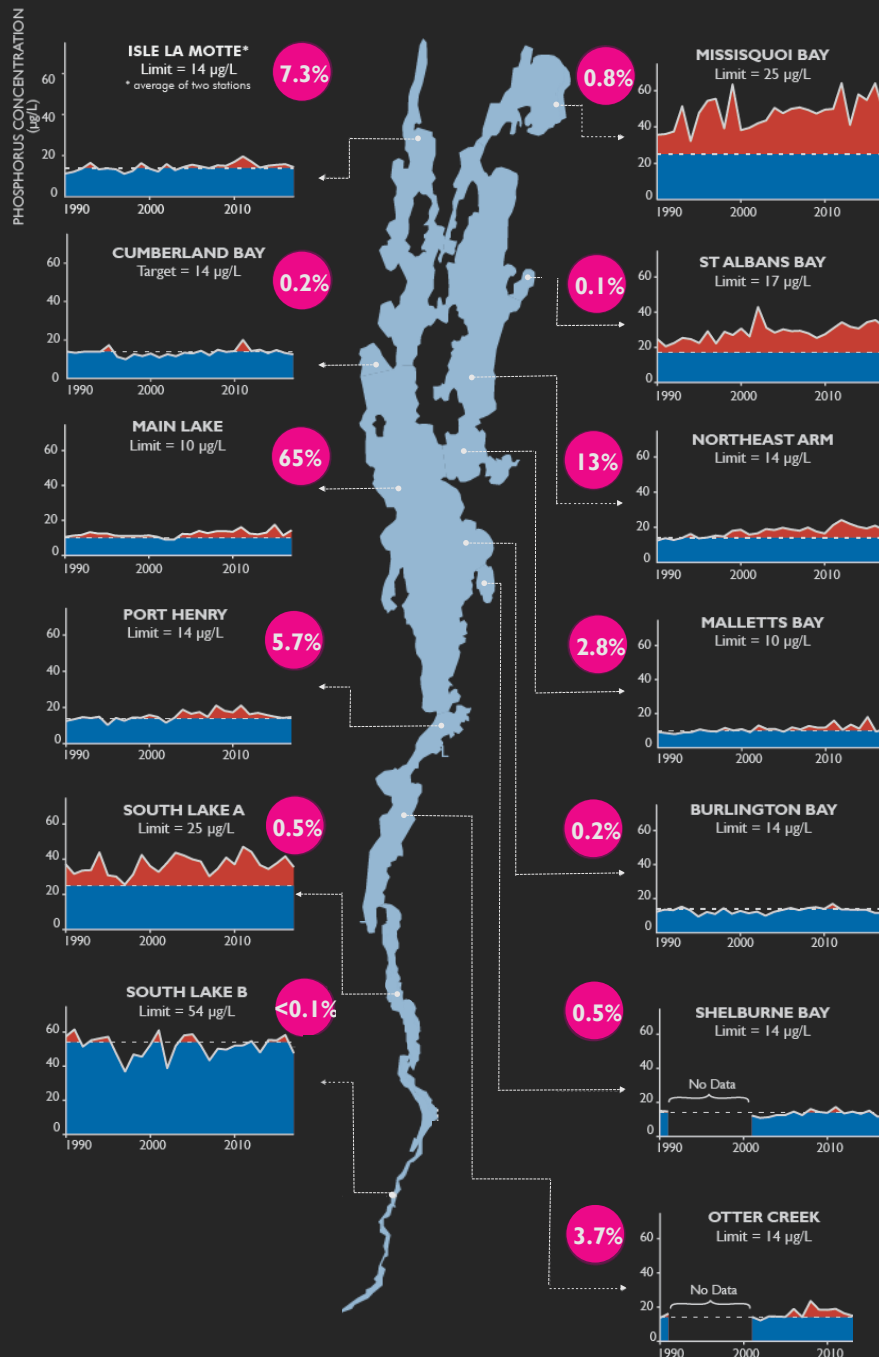


Photo: LCBP

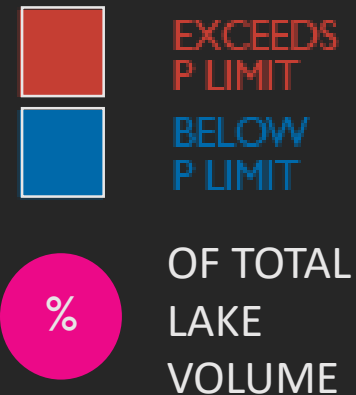




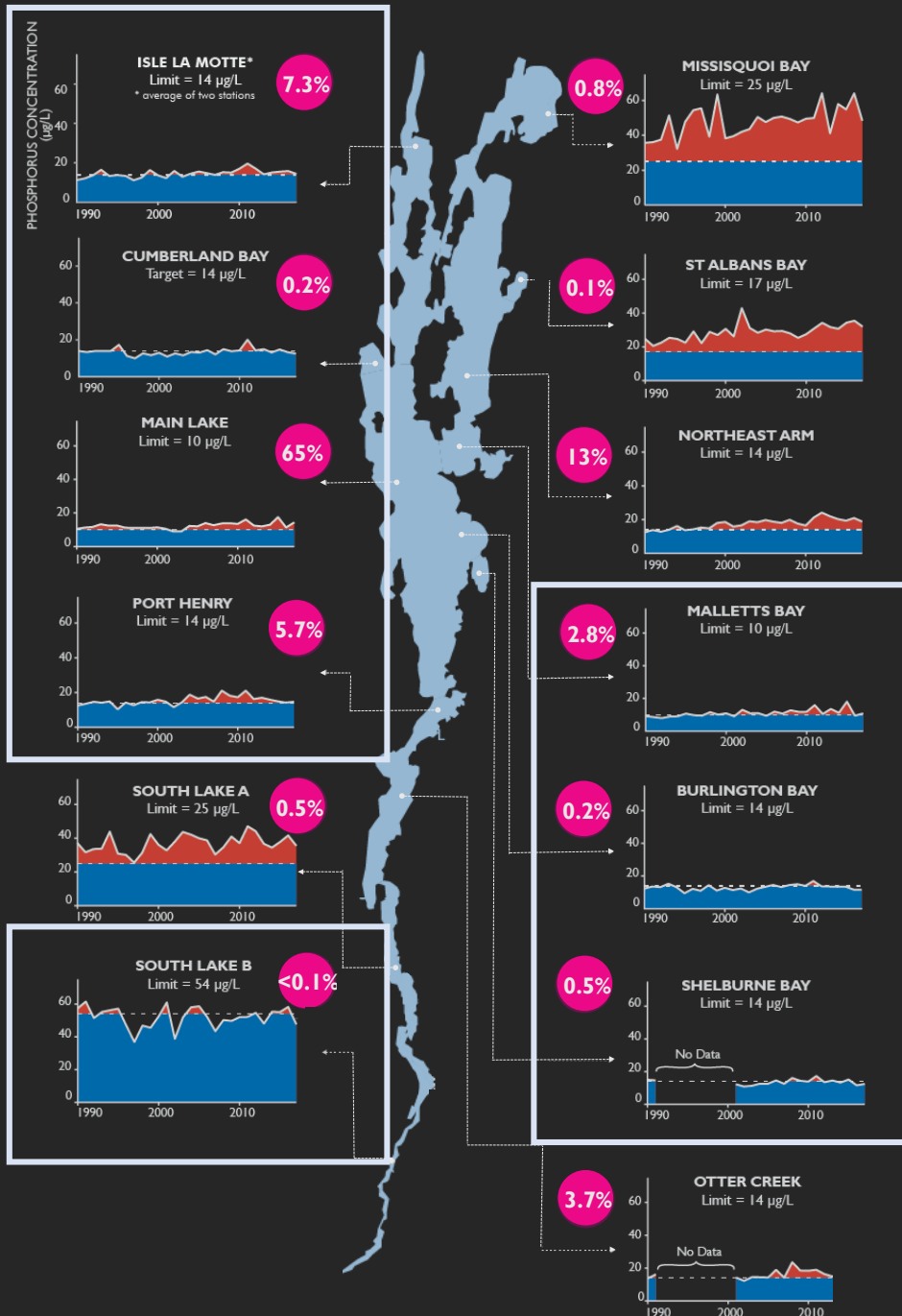
# Annual mean phosphorus concentration, 1990-2017



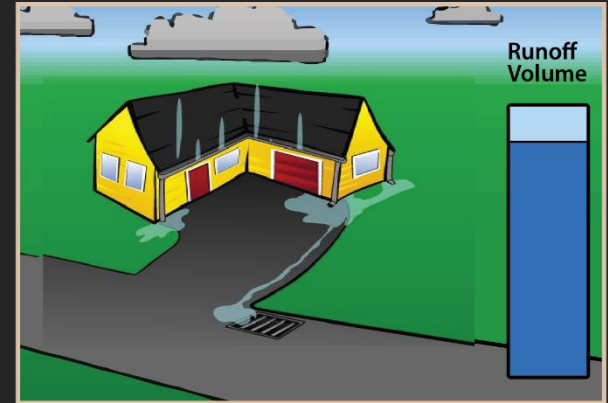
## KEY



# Annual mean phosphorus concentration, 1990-2017



# Dive in: What you can do



No Green Practices



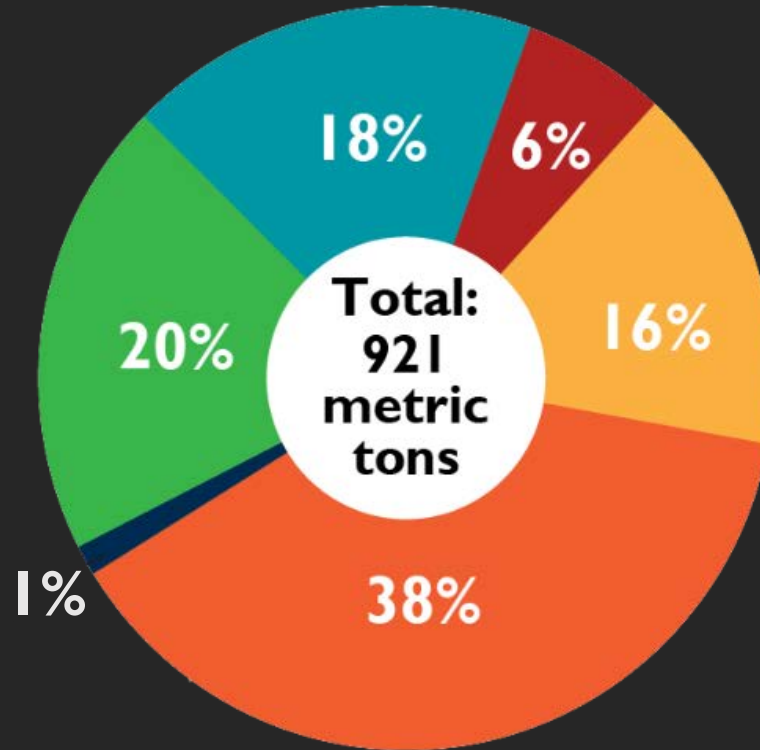


Photo: LCBP



Photo: LCBP

# Annual phosphorus loading and land cover



Load

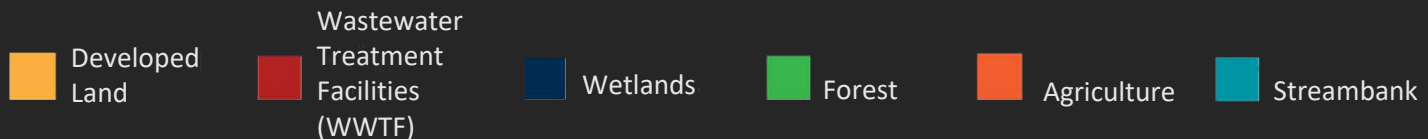
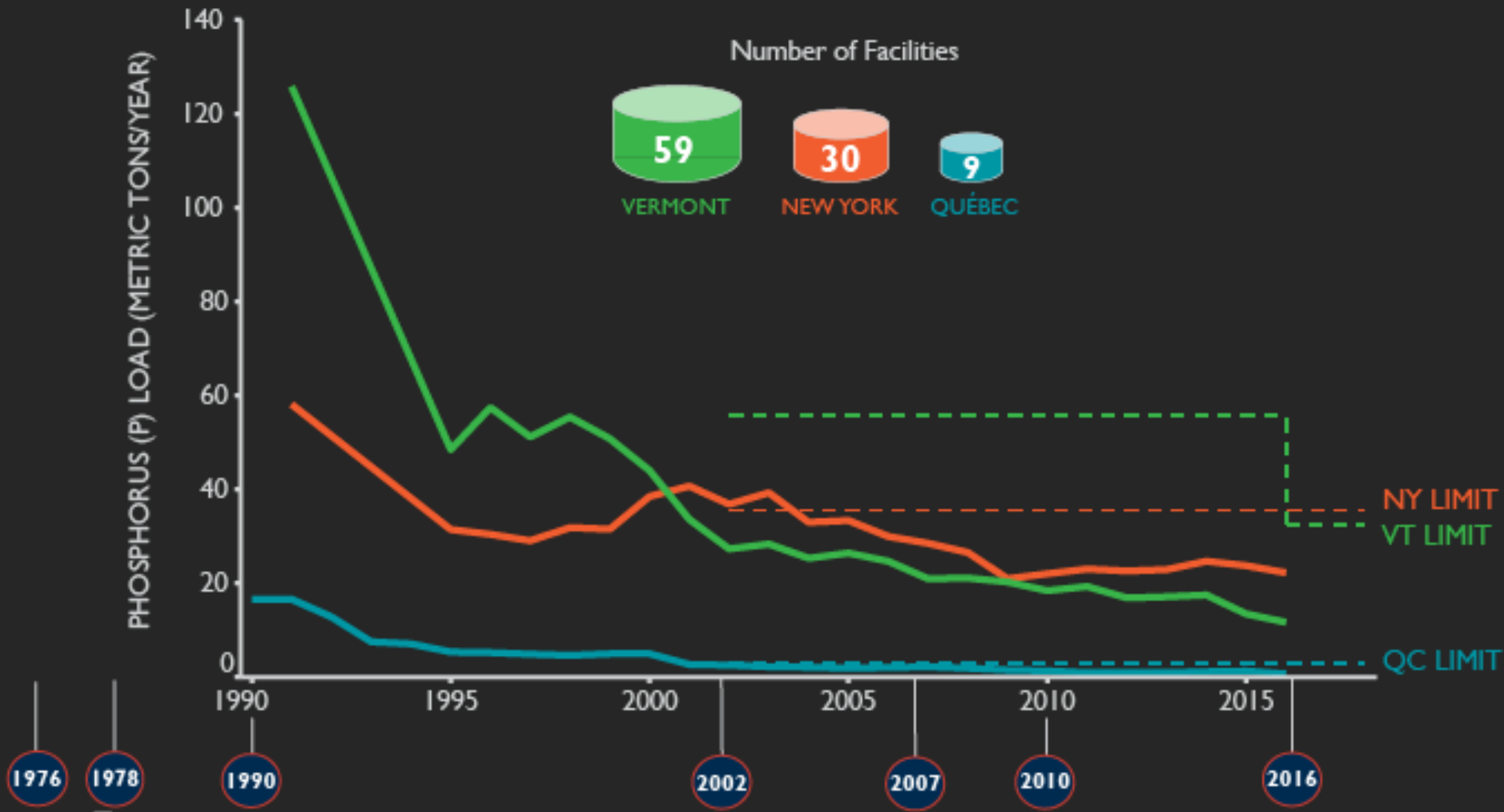




Photo: Stone Environmental, Inc

# Phosphorus load from wastewater treatment facilities, 1990-2016



# Dive in: What you can do



Flushable wipes  
are not flushable!



Photo: Rosalia Project

# Dive in: What you can do



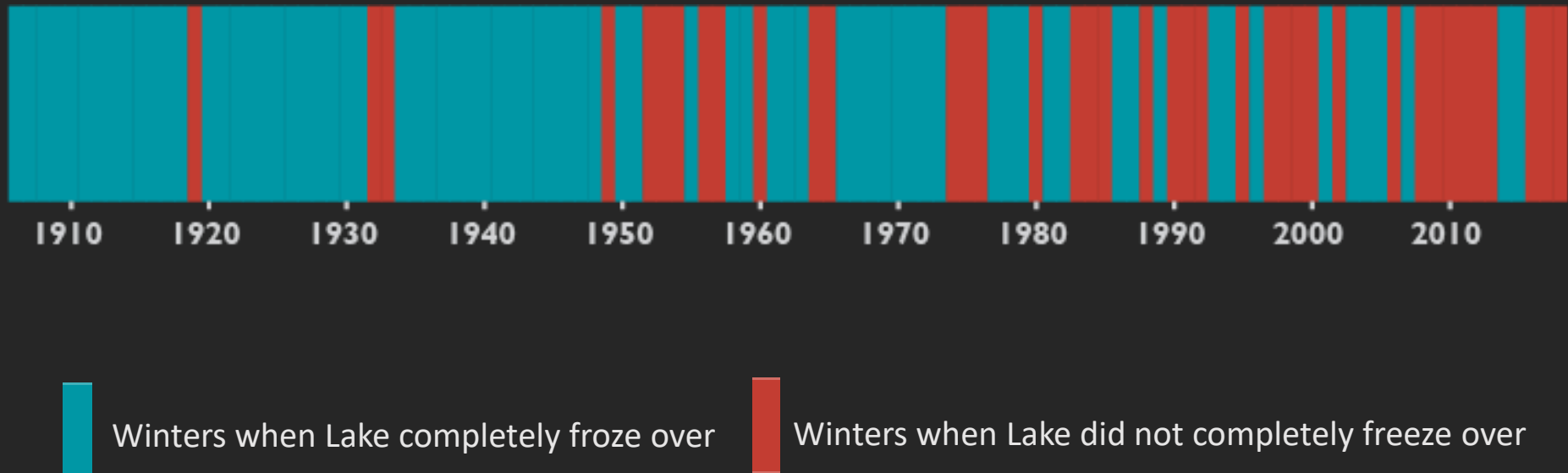


Photo: LCBP





# Freeze-over of Lake Champlain, 1906-2016





### ATTENTION ANGLERS!

WE NEED YOUR HELP TO GAIN MORE  
INFORMATION ON WINOOSKI RIVER  
TROUT AND SALMON FISHING

Please fill out the survey inside when  
done fishing. Your input is important  
even if you did not catch any fish.

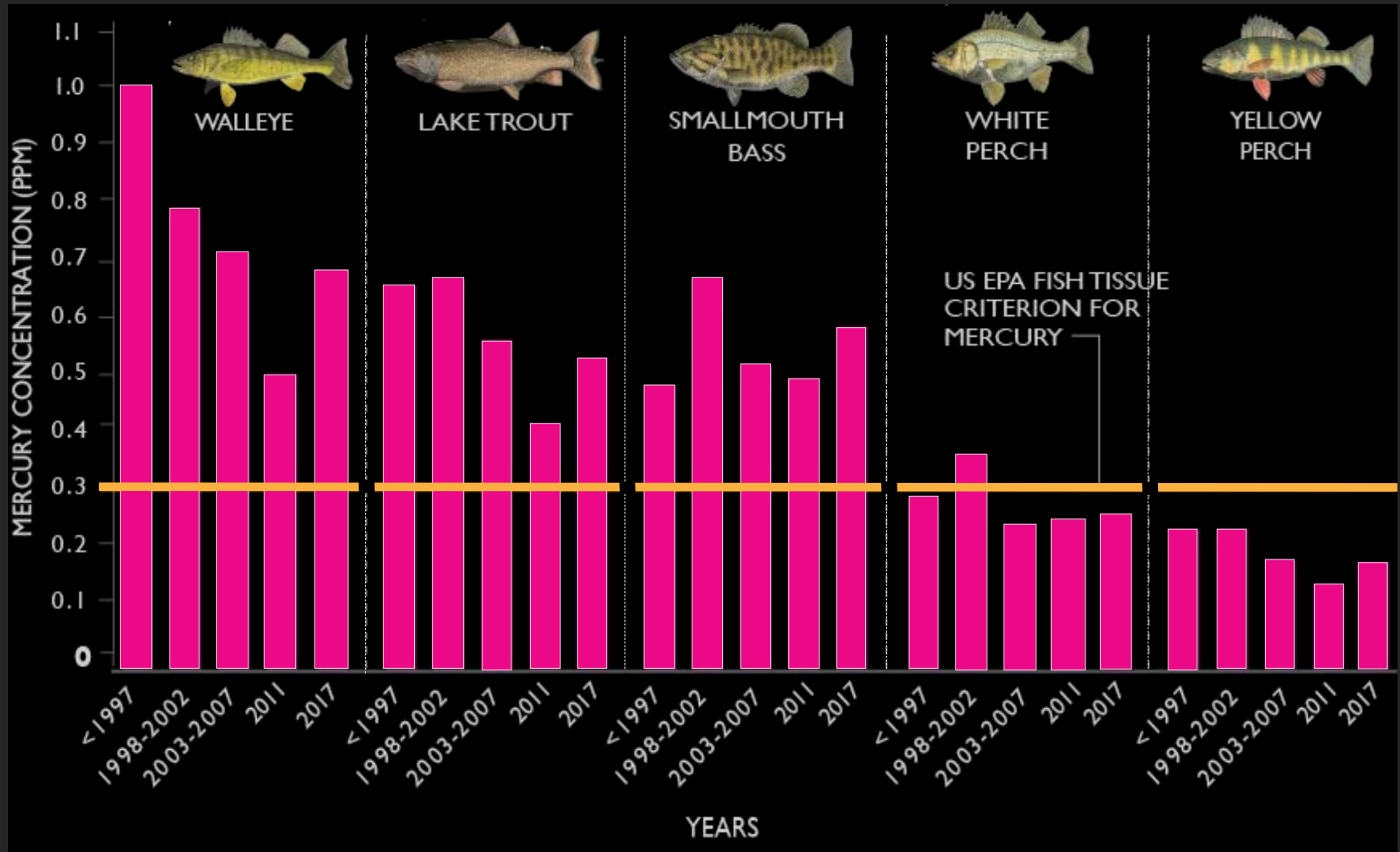
THANK



WINOOSKI

Photo: USFWS

# Mercury concentration in fish tissue



# Dive in: What you can do



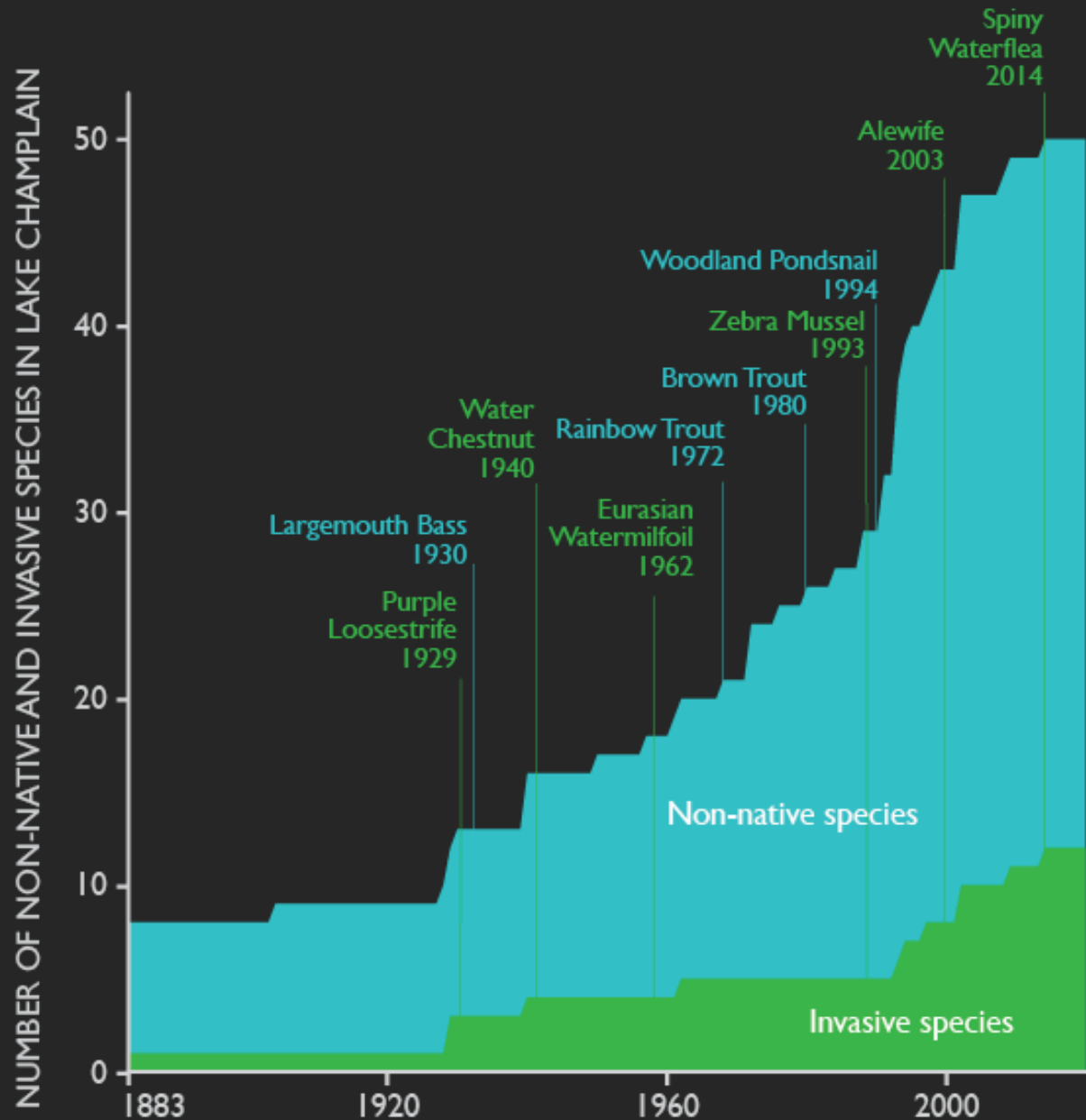
Don't trash toxics





Photo: Vic Putman

# Aquatic non-native and invasive species, 1883-2017





Photos: (clockwise from top left) University of Florida, Ellen Marsden, USFWS Minnesota DNR

# Non-native threats to Lake Champlain Basin from connected waterways

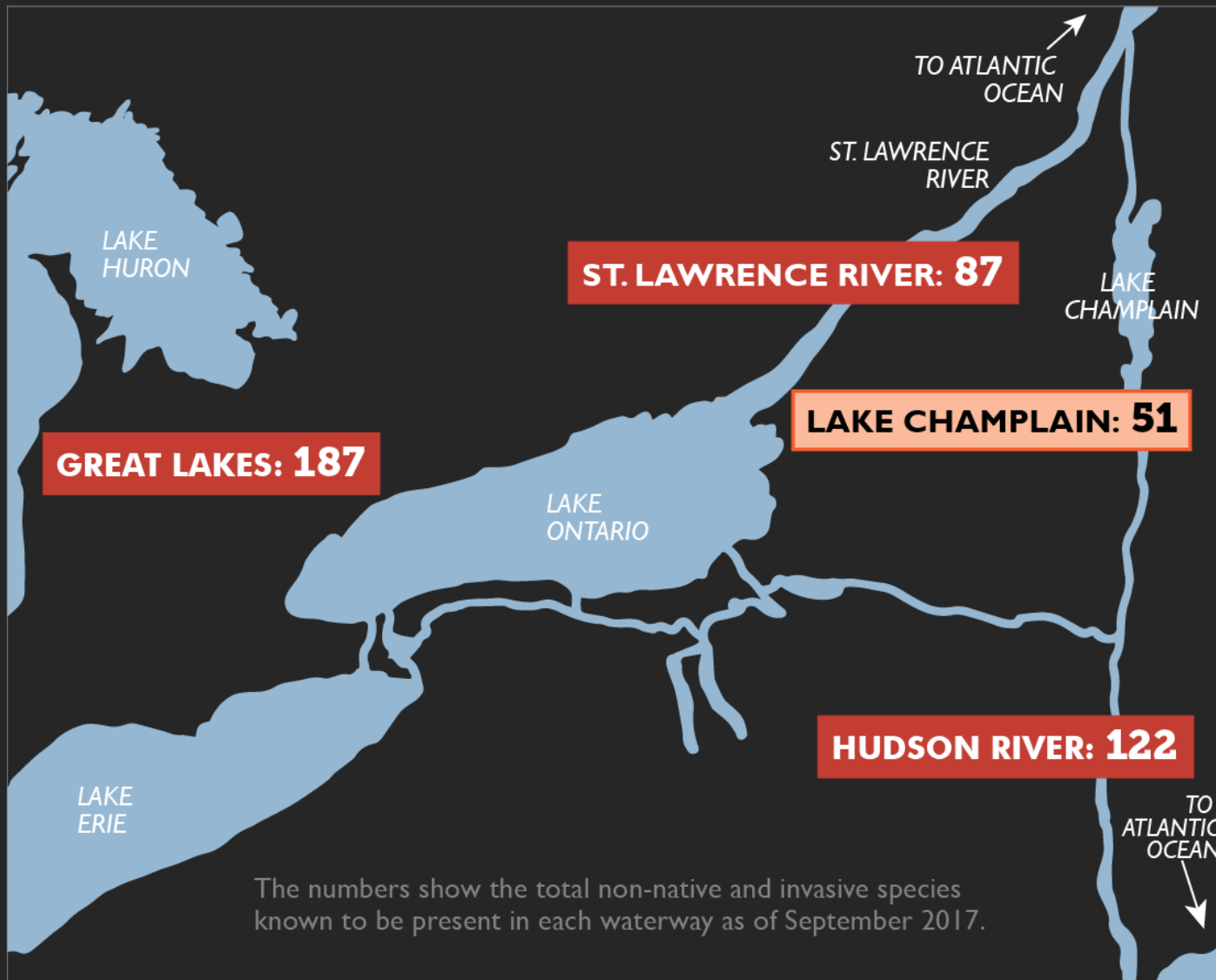




Photo: LCBP

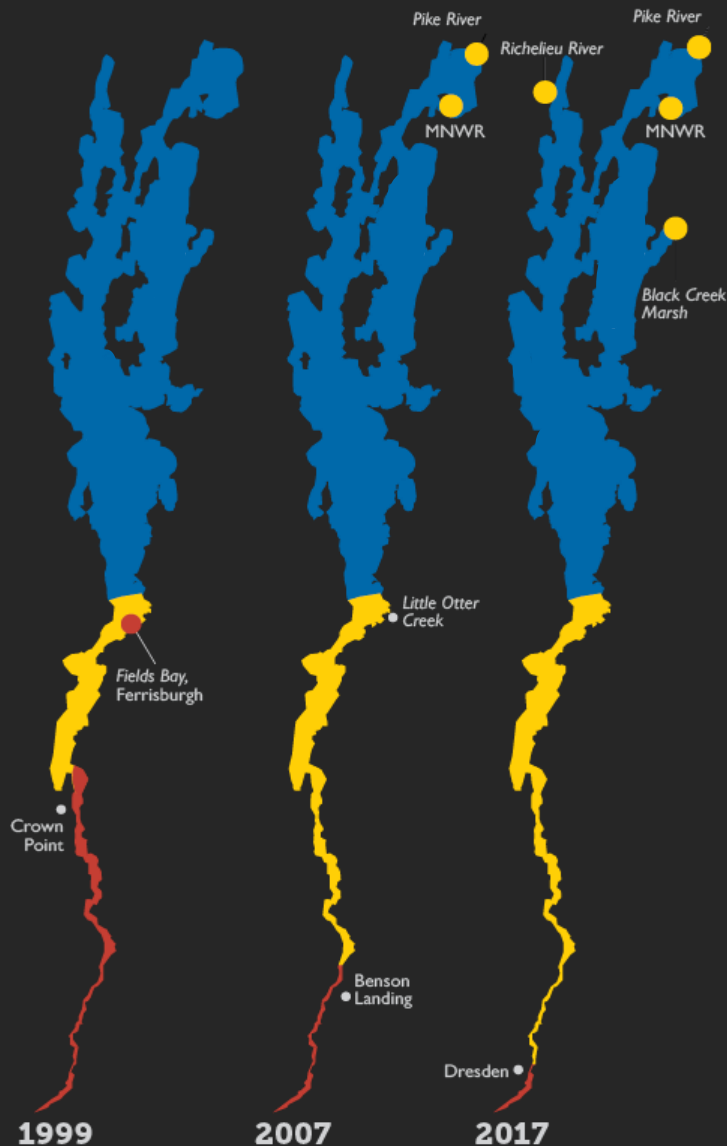


Photo: OBVBM



Photo: Martin Mimeault

# Extent of water chestnut coverage



MISSISQUOI BAY



NORTHEAST ARM



MAIN LAKE



SOUTH LAKE



GOOD

FAIR

POOR

# Dive in: What you can do

**clean**



**drain**



**dry**





Photo: LCBP



Photo: LCBP





Photo: Wildlife Management Institute

# THE ECONOMIC IMPACT OF CLEAN WATER



Lake Champlain generates  
**\$300 MILLION**  
in VT tourism every year



water quality  
improves



water quality  
decreases



Secchi disk depth measures the clarity of water,  
which is an indicator of water quality.

## Tourism



**+10%**

higher seasonal  
room rates for towns  
with lake-dependent  
tourism



**-\$16.8 MILLION\***  
July/August



Lost Jobs\*

**195**

1 icon = 10 full-time jobs

\* Projected impacts with  
a 3 ft (1 m) decrease  
in water clarity

## Home Values



**+\$15,200**  
if water quality  
standards are met

**3%\***  
year-round  
homes



**37%\***  
seasonal  
homes



# New and improved cartop boat access sites, 2015-2018



# Dive in: What you can do



Help the next generation of lake stewards get involved

# Dive in: What you can do



Join a watershed group

Photo: Scott  
Staples

# Dive in: What you can do



Help the next generation of lake stewards get involved

Grant

# Thank you!

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