

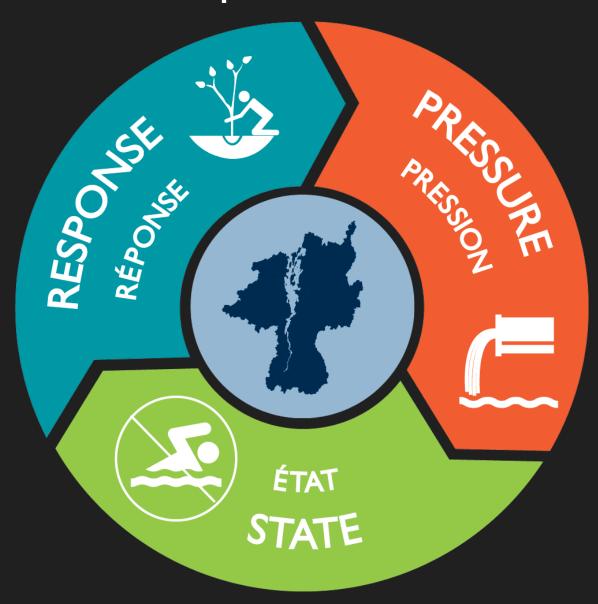


Vermont 56%



Inside cover

#### Pressure State Response Model





### 5 Lake Segments

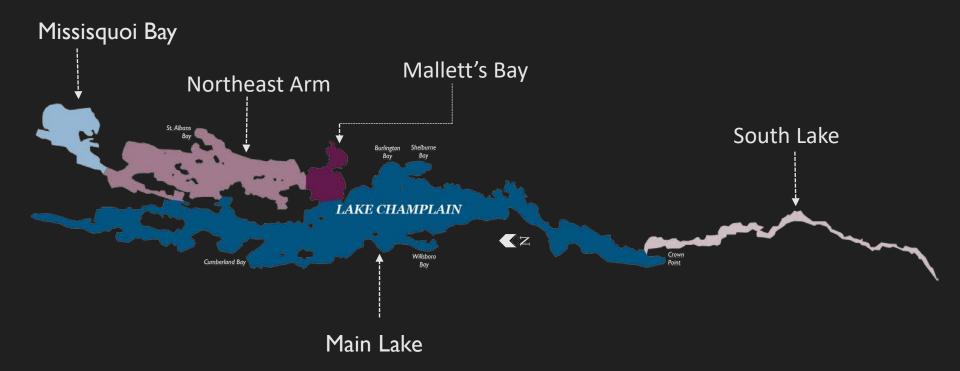




Photo: LCBP





## 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

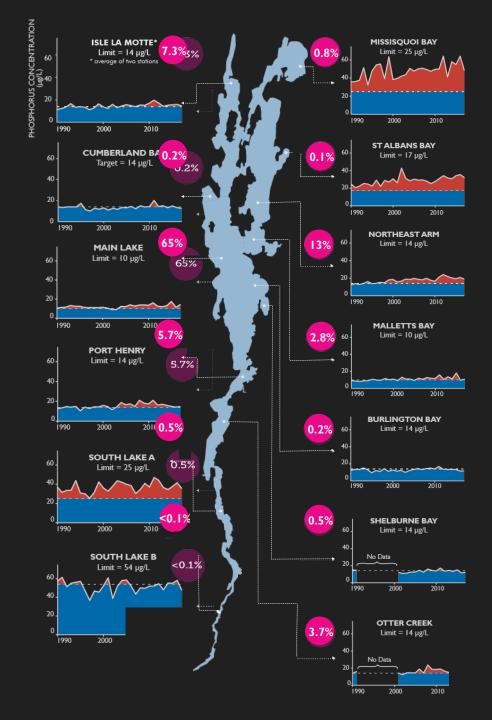




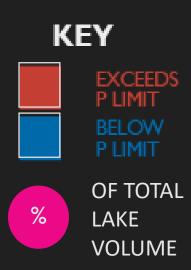




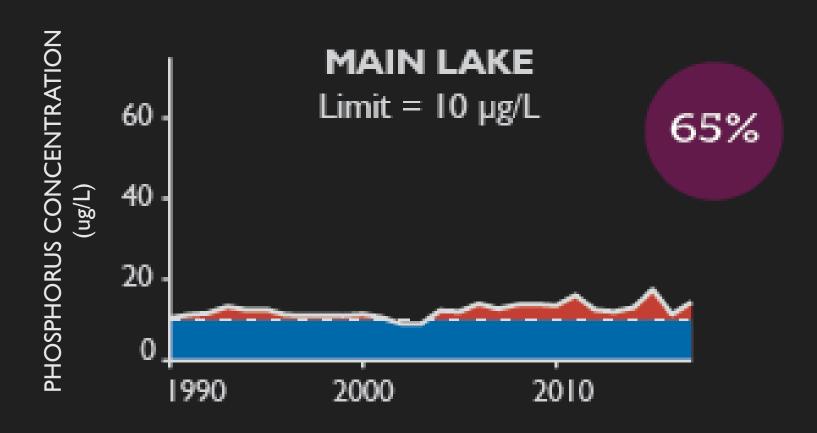


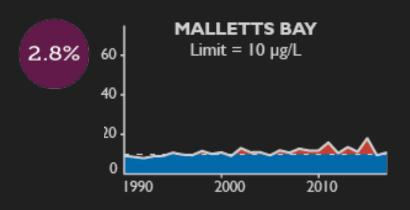


### Annual mean phosphorus concentration, 1990-2017

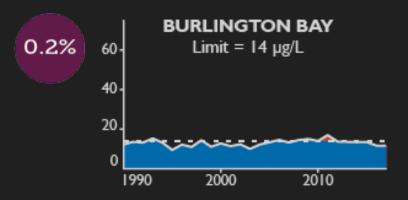


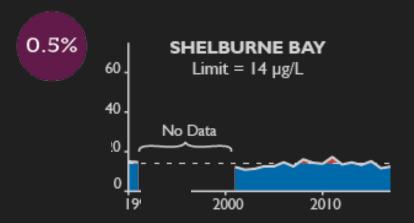
#### Annual mean phosphorus concentration, 1990-2017

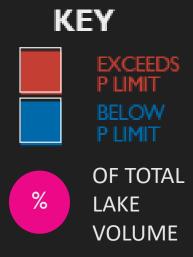




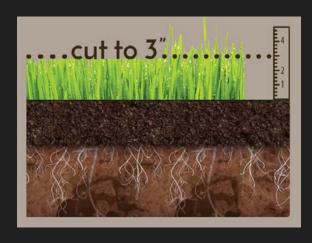
## Annual mean phosphorus concentration, 1990-2017

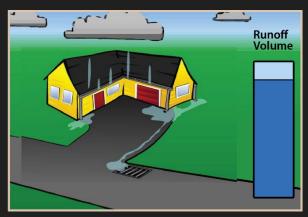




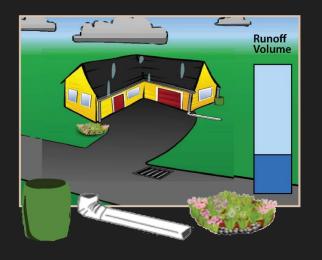




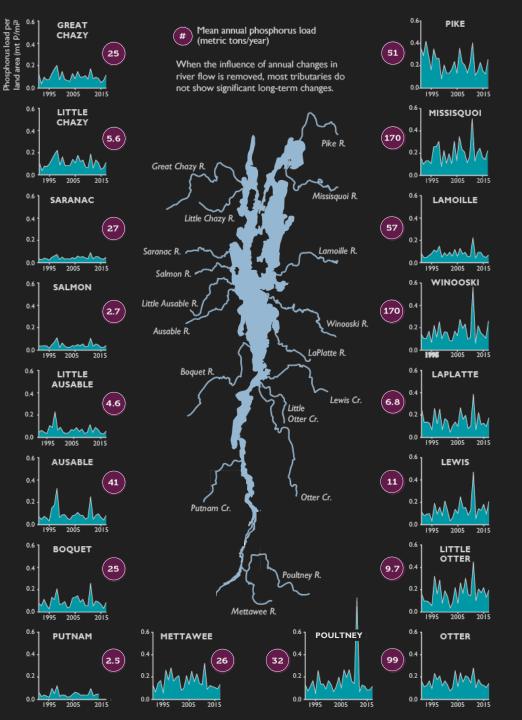




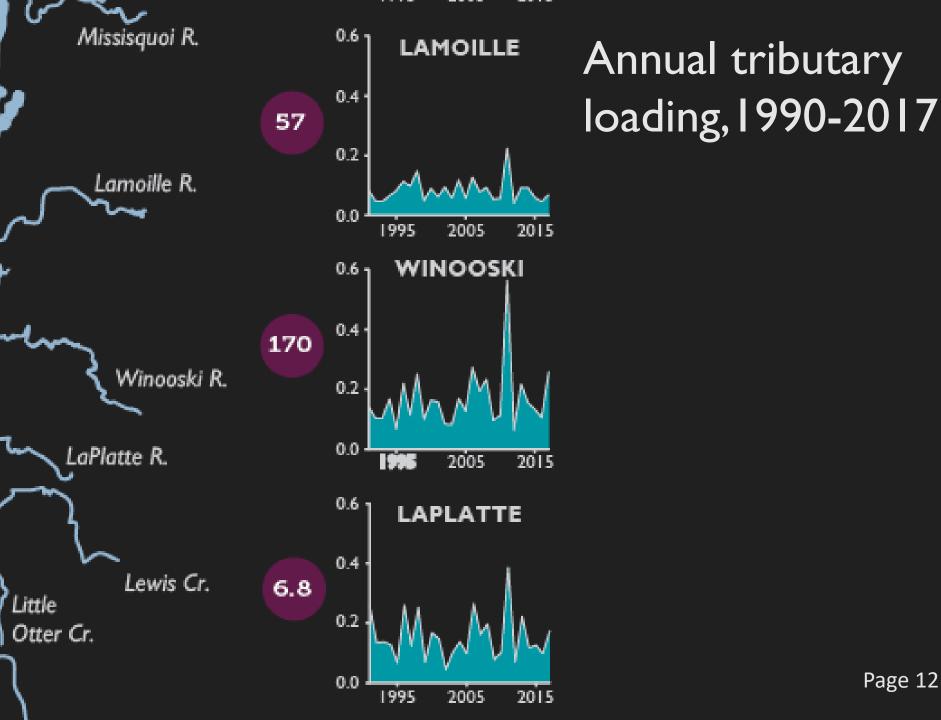
**No Green Practices** 



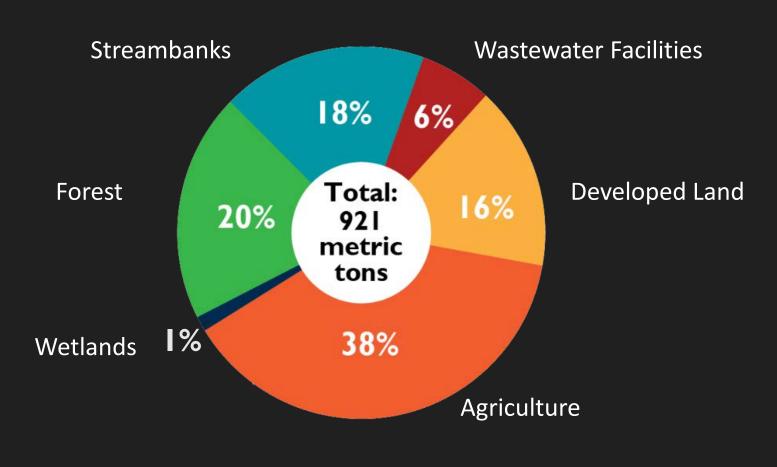




# Annual tributary loading, 1990-2017



#### Annual phosphorus loading and land cover

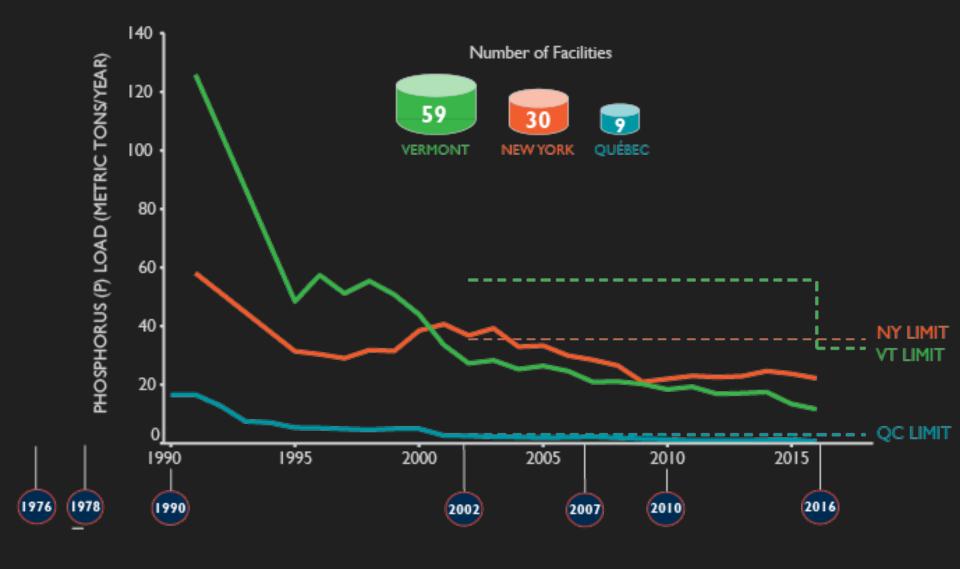


Load



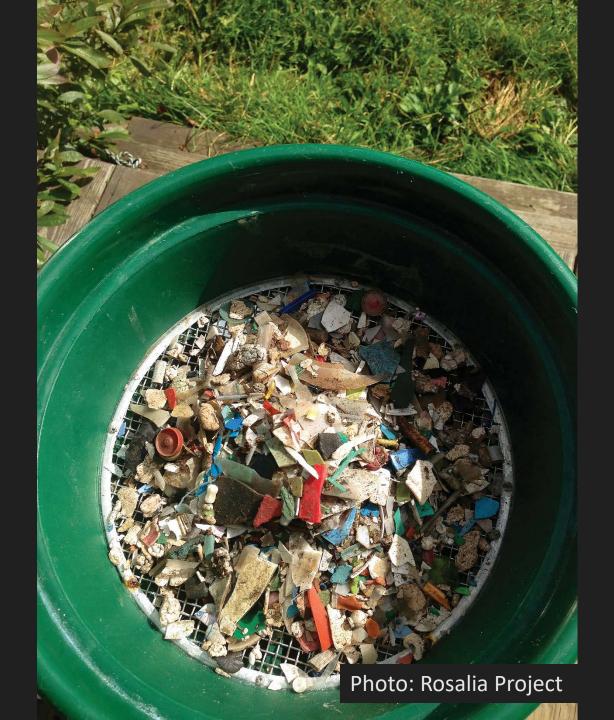


# Phosphorus load from wastewater treatment facilities, 1990-2016





Flushable wipes are not flushable!











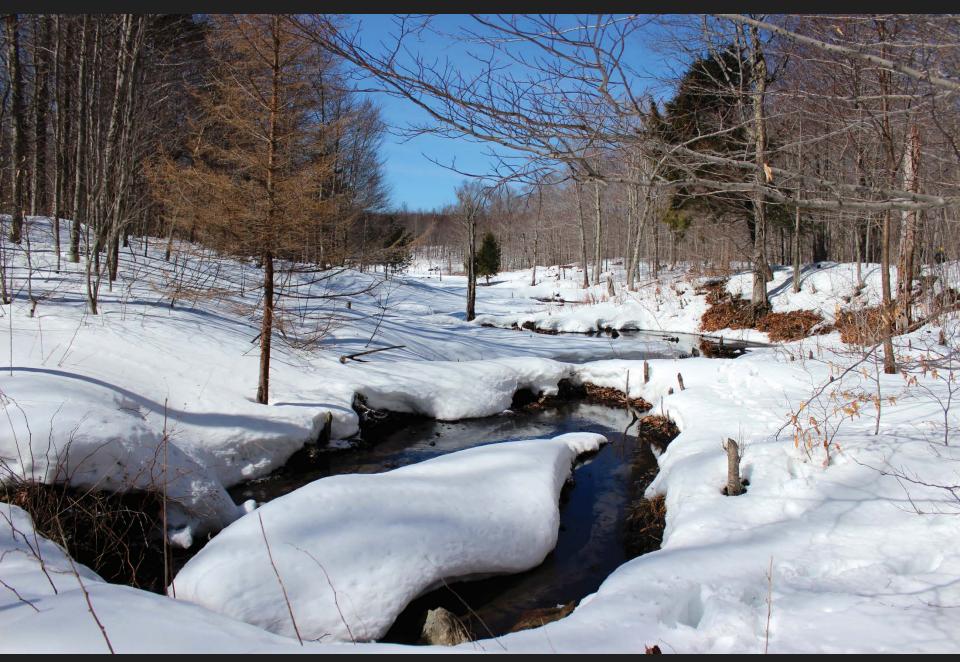
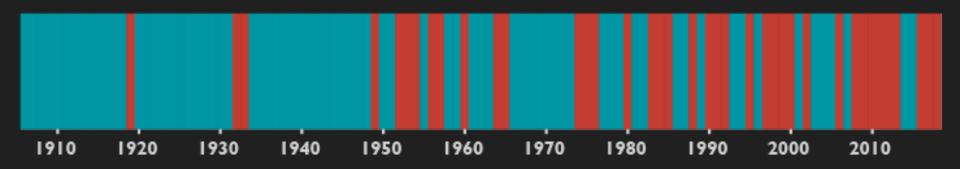


Photo: LCBP

#### Freeze-over of Lake Champlain, 1906-2016

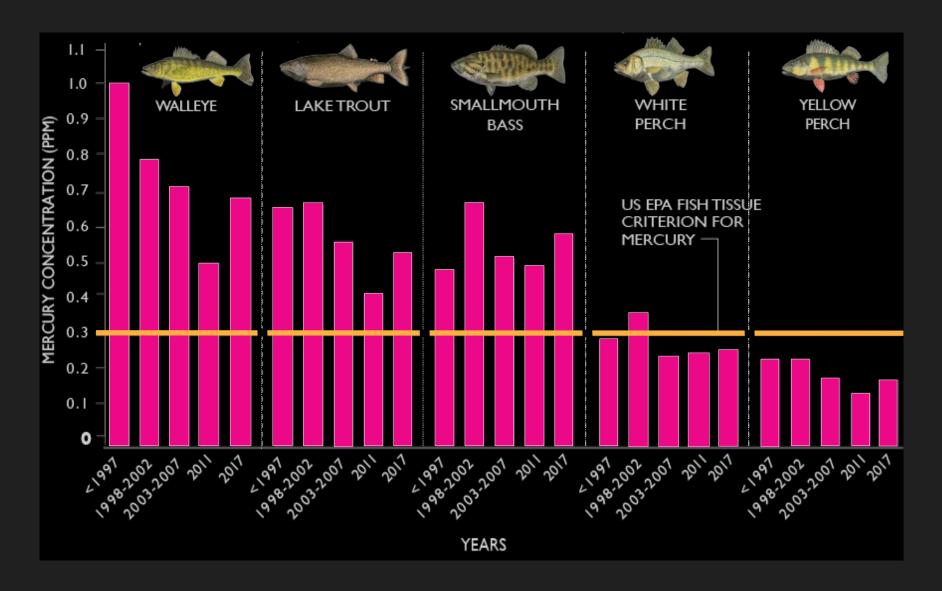


Winters when Lake completely froze over Win

Winters when Lake did not completely freeze over



#### Mercury concentration in fish tissue



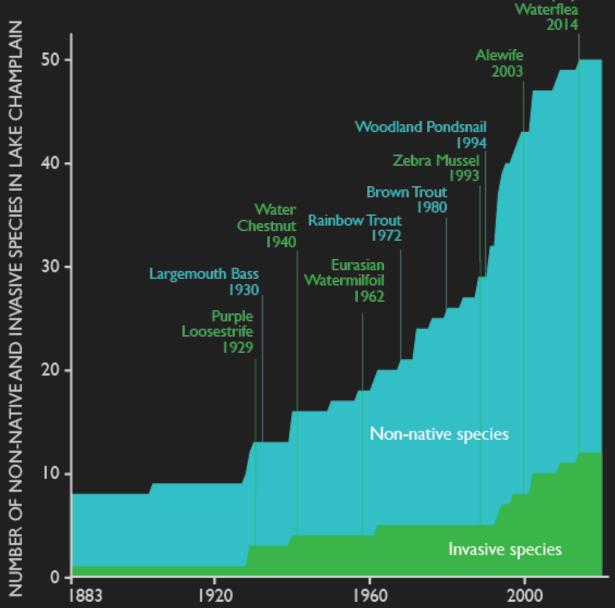


Photos: iStock

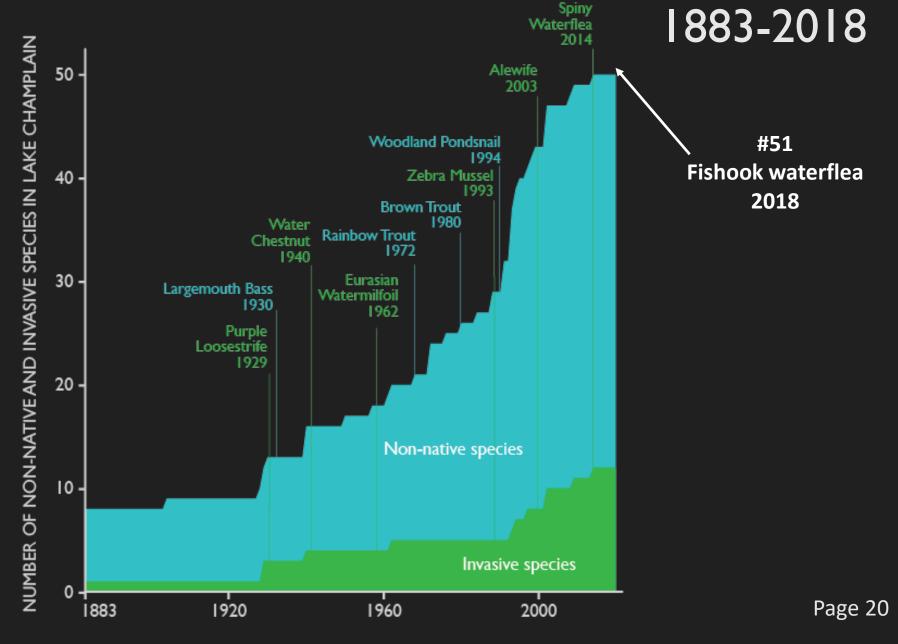


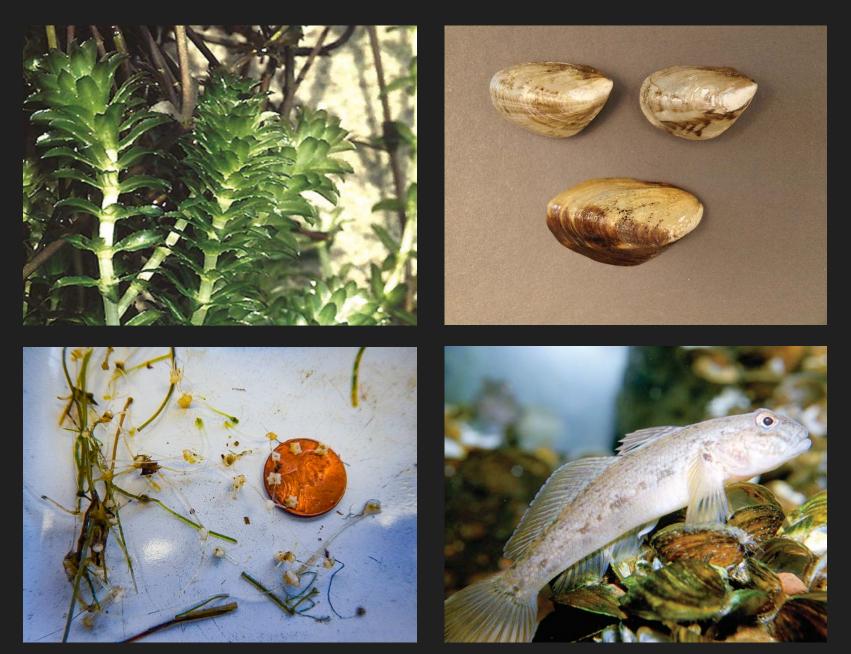
Photo: Vic Putman

## Aquatic non-native and invasive species, Spiny Waterflea 1883-2018



### Aquatic non-native and invasive species,





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

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

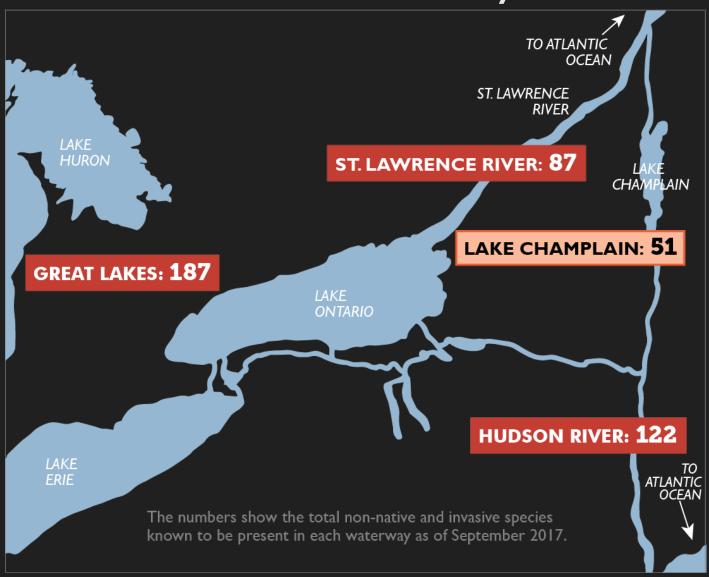


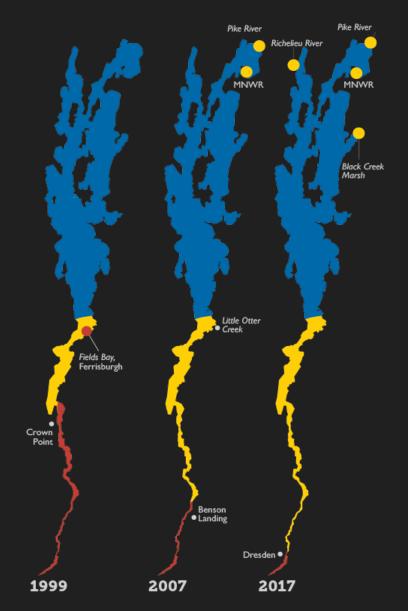




Photo: OBVBM

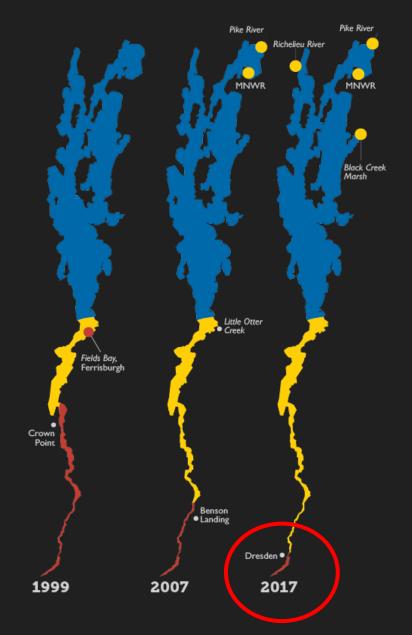


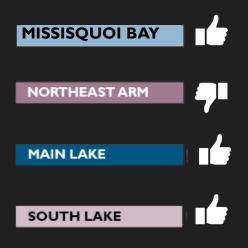
## Extent of water chestnut coverage





### Extent of water chestnut coverage



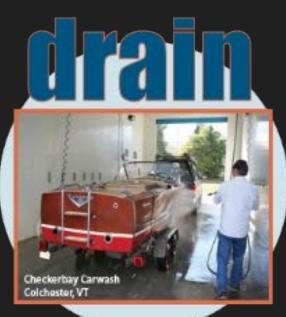


GOOD

**FAIR** 

**POOR** 





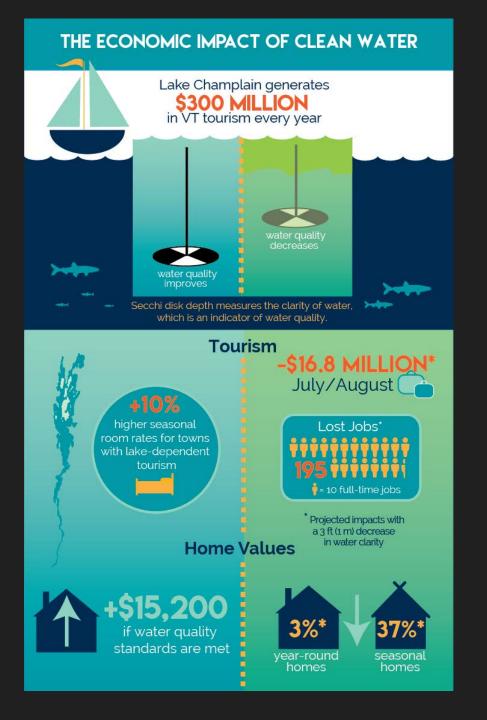














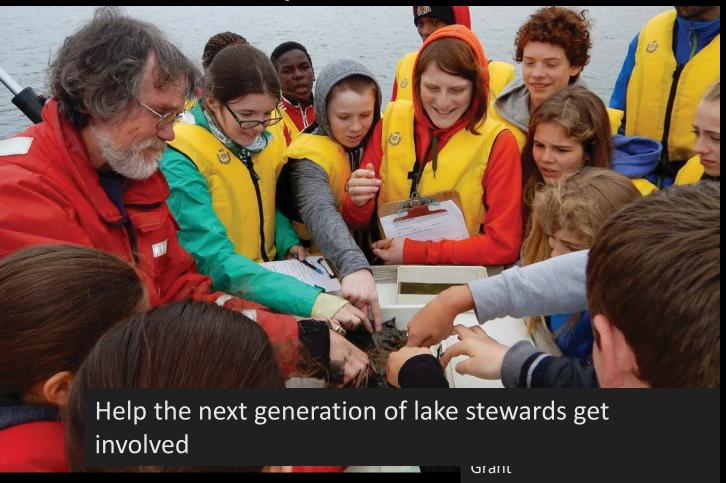
New and improved cartop boat access sites,





Help the next generation of lake stewards get involved





# Thank you!

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Colleen Hickey
Education and
Outreach Coordinator
chickey@lcbp.org

