

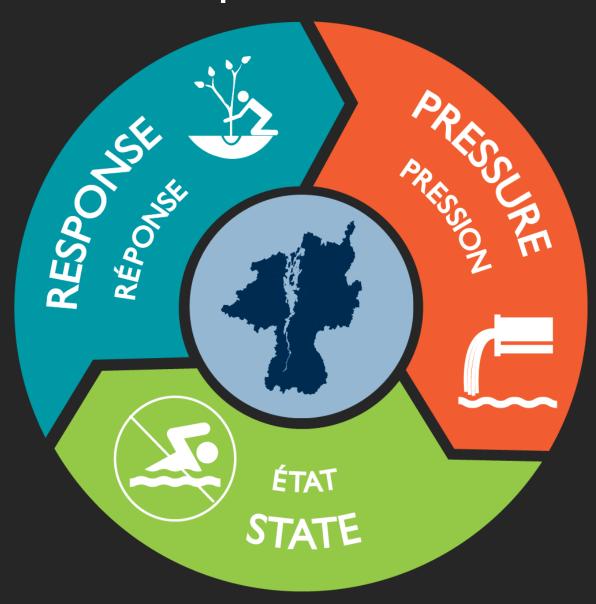


Vermont 56%



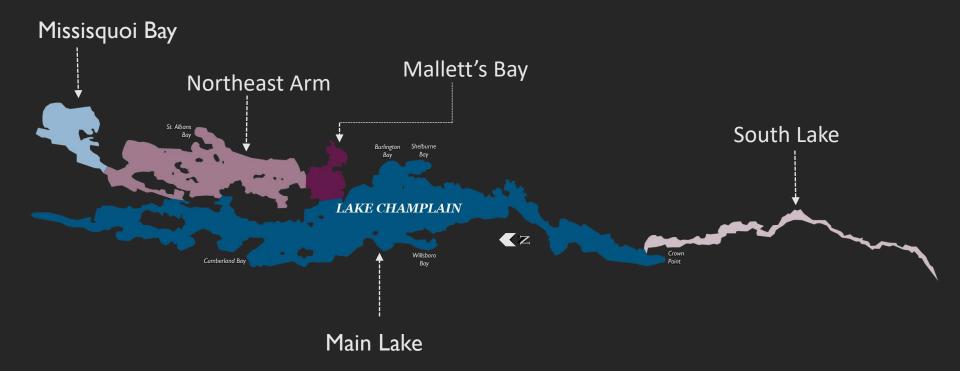
Inside cover

#### Pressure State Response Model





### 5 Lake Segments



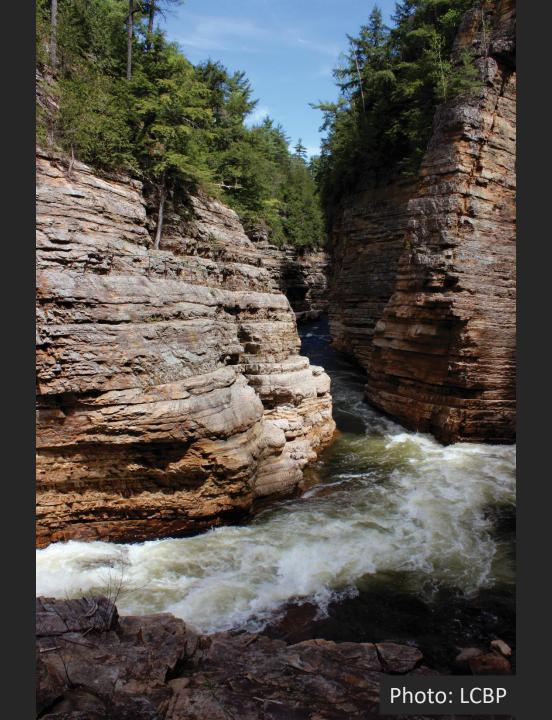




Photo: LCBP



### 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

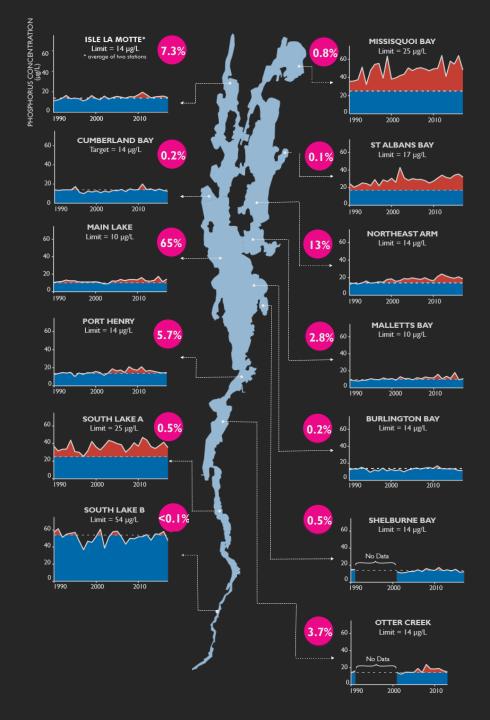




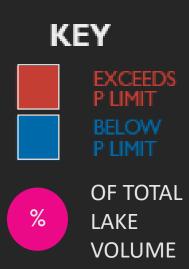


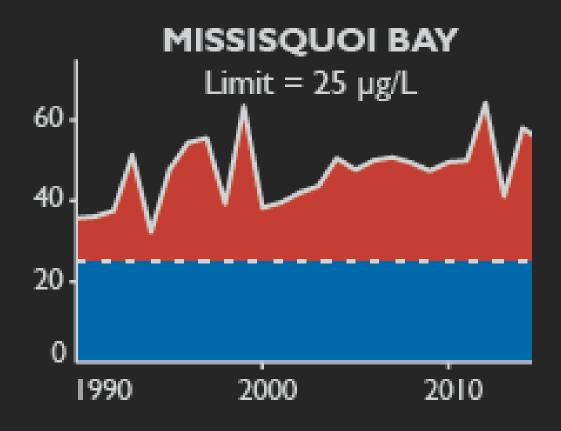


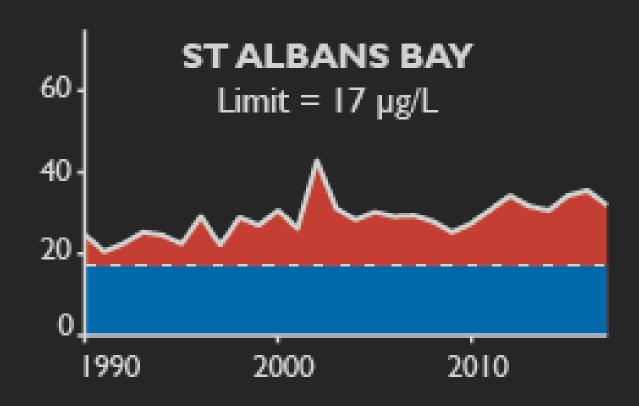




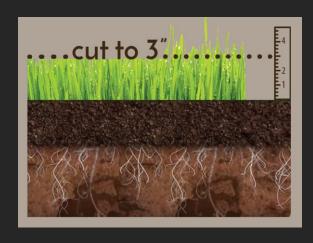
### Annual mean phosphorus concentration, 1990-2017

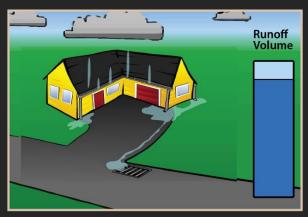




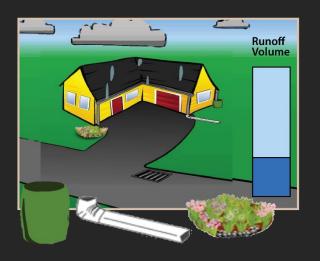




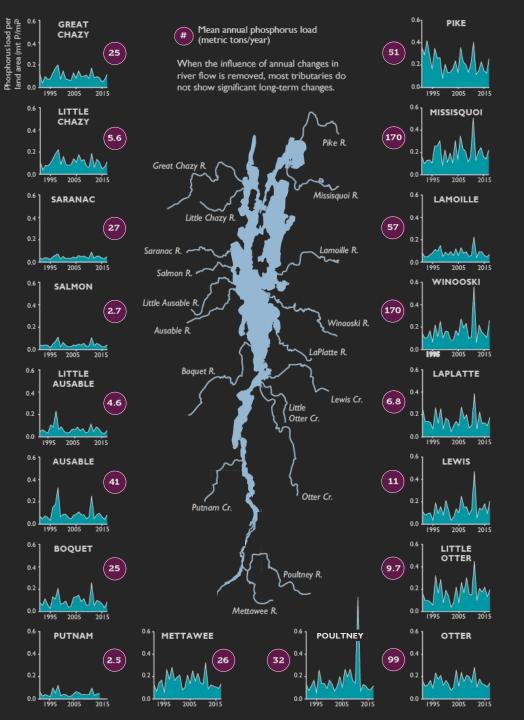




**No Green Practices** 







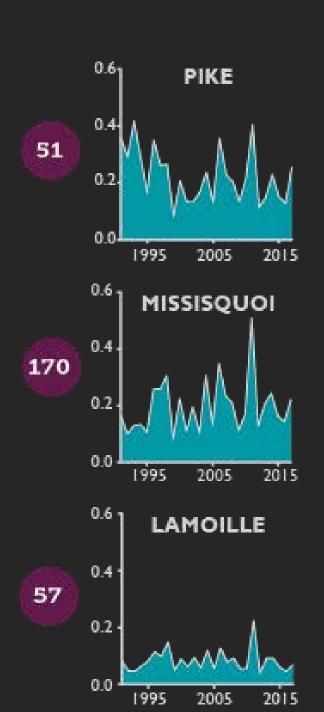
## Annual tributary loading, 1990-2017

ıs load

I changes in tributaries do m changes.



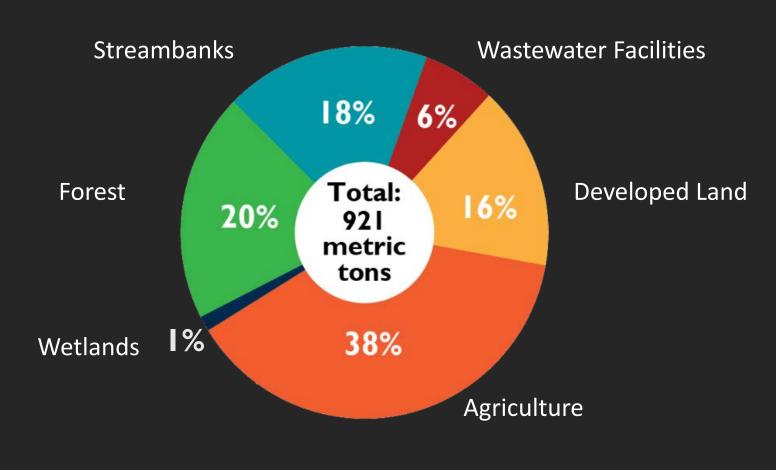




# Annual tributary loading, 1990-2017



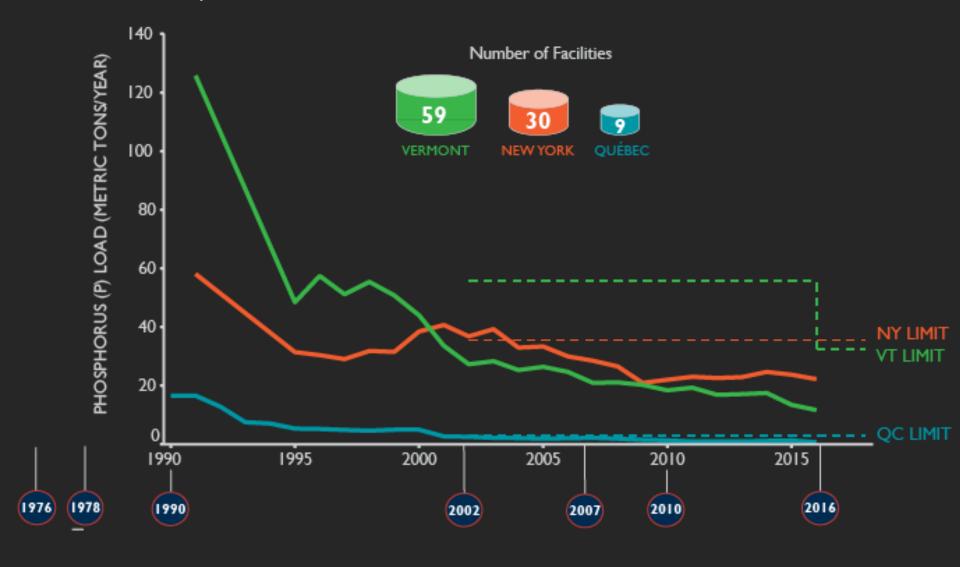
#### Annual phosphorus loading and land cover



Load

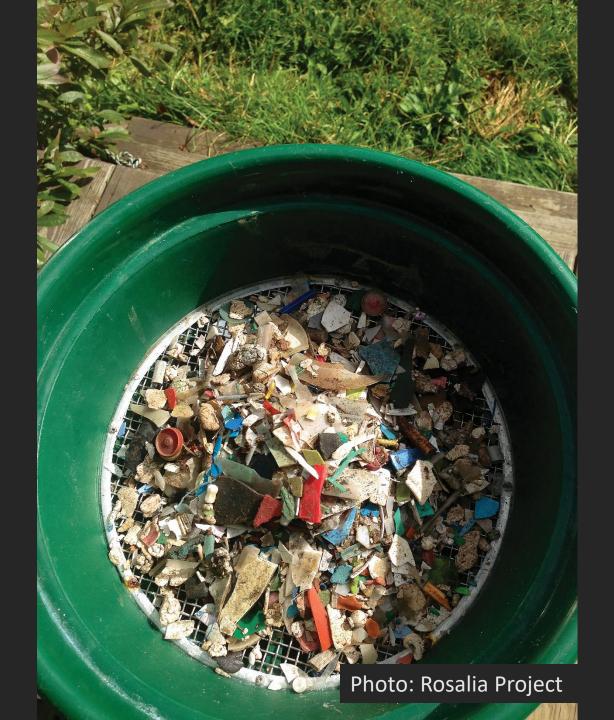


### Phosphorus load from wastewater treatment facilities, 1990-2016





Flushable wipes are not flushable!











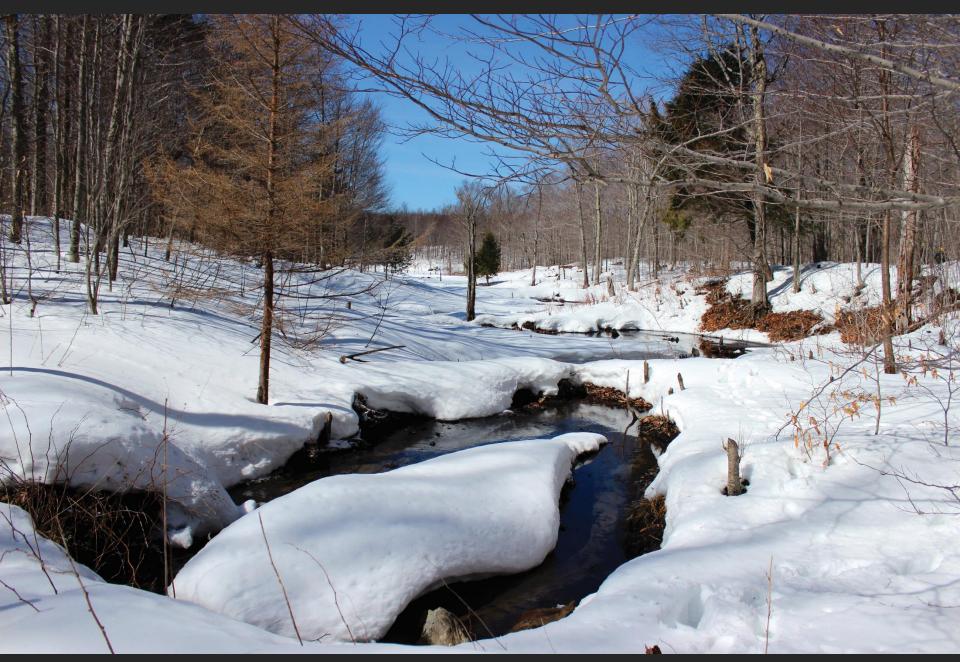
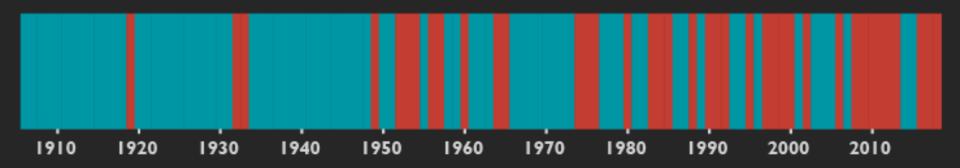


Photo: LCBP

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

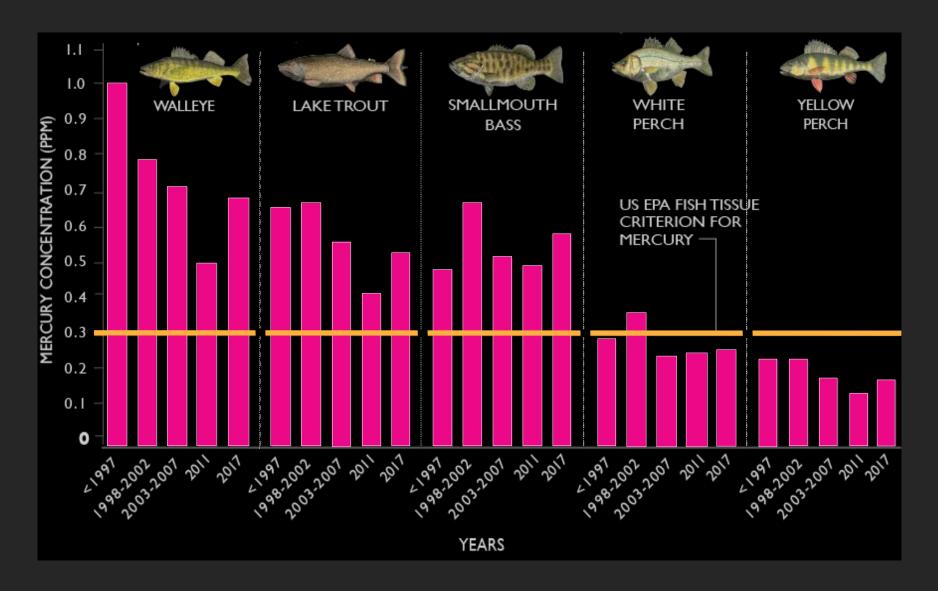


Winters when Lake completely froze over

Winters when Lake did not completely freeze over



#### Mercury concentration in fish tissue





Photos: iStock

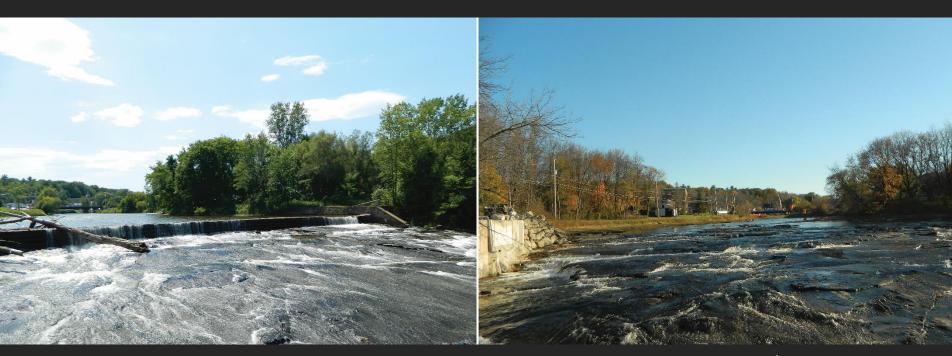
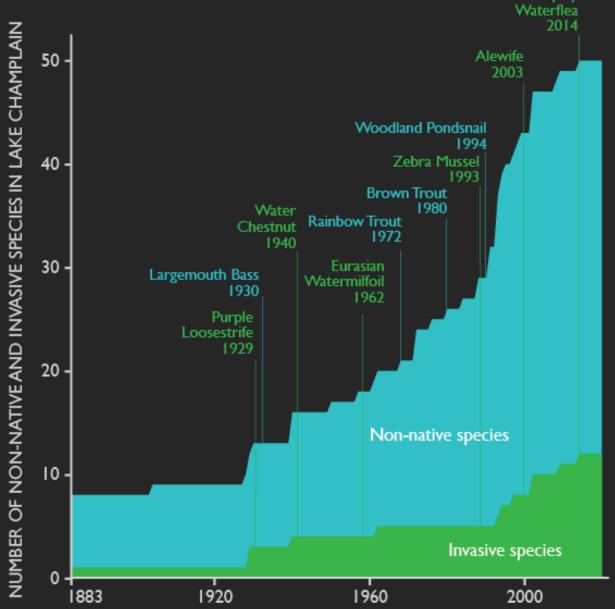
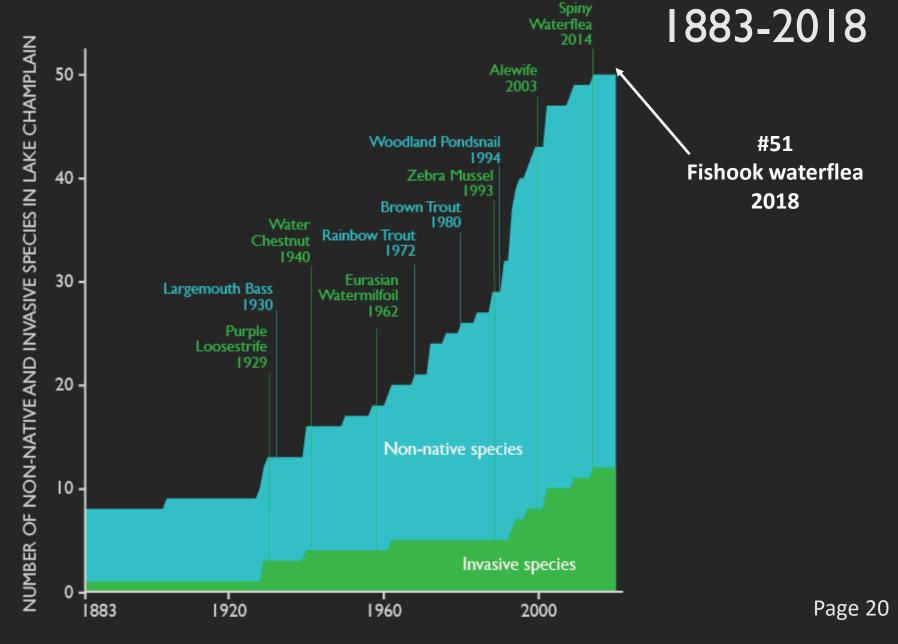


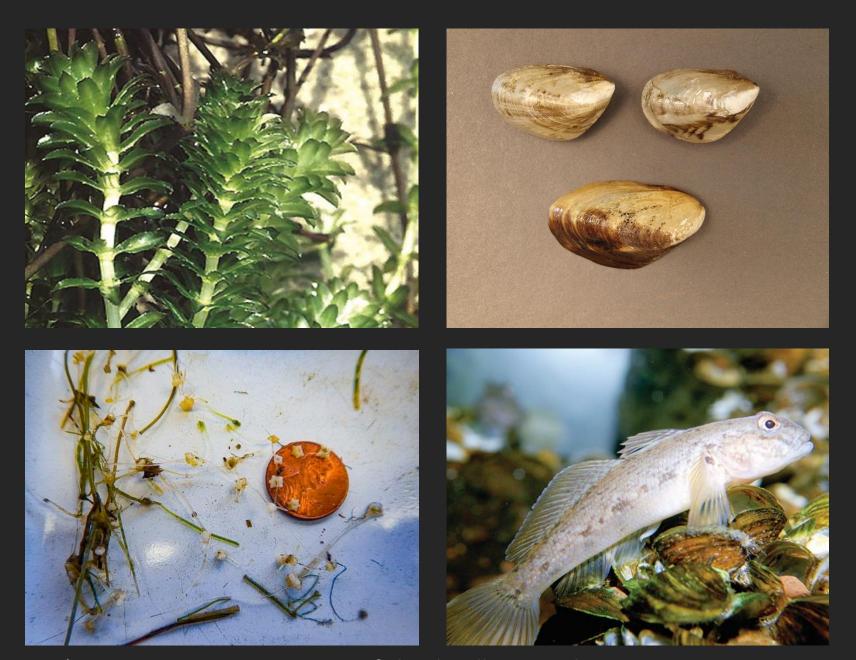
Photo: Vic Putman

### 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

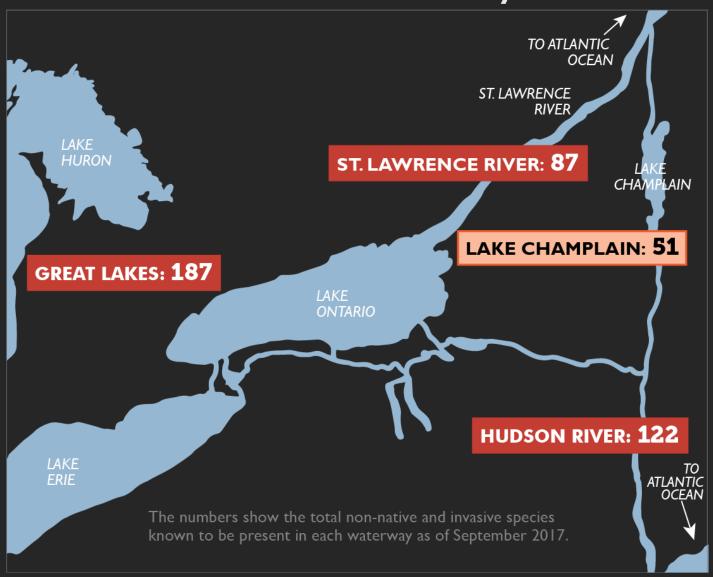


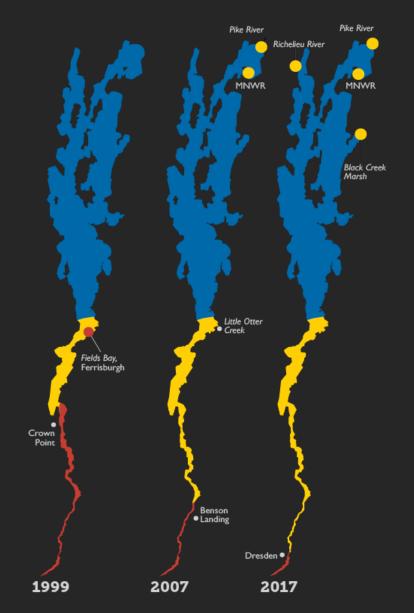


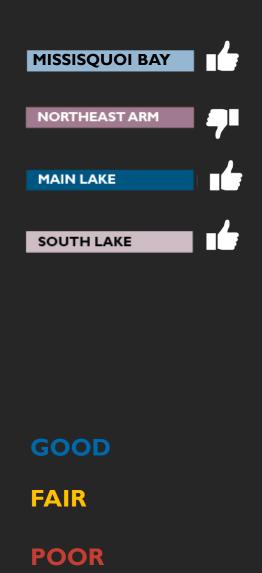


Photo: OBVBM

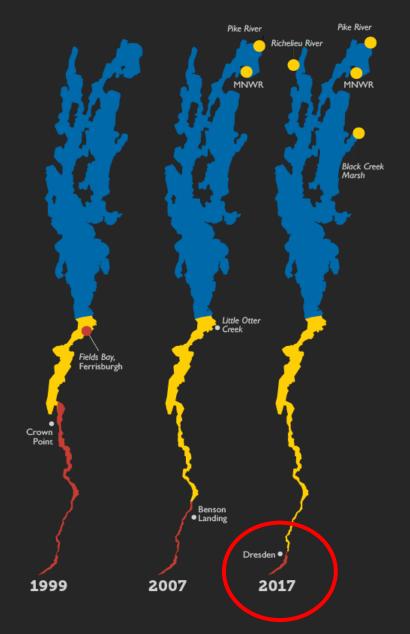


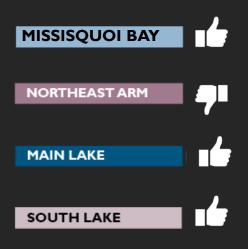
#### Extent of water chestnut coverage





#### Extent of water chestnut coverage



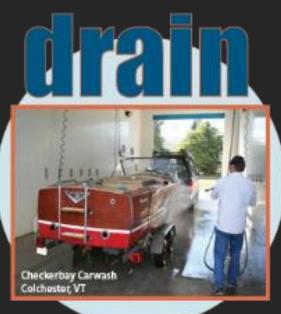


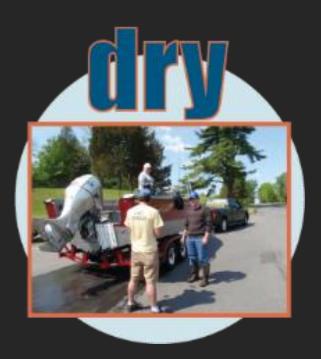
GOOD

**FAIR** 

**POOR** 





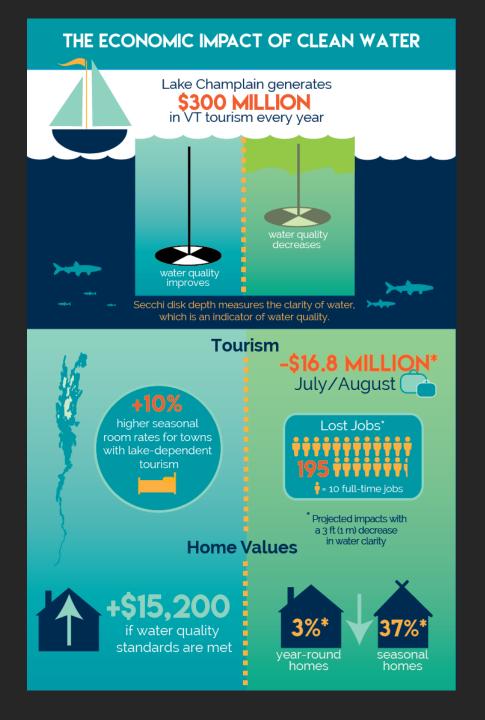














New and improved cartop boat access sites,





Help the next generation of lake stewards get involved





## Thank you!

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Outreach Coordinator
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