

The State of Lake Champlain and its Watershed

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Champlain Valley National Heritage Partnership



**Champlain Valley
National Heritage Partnership**



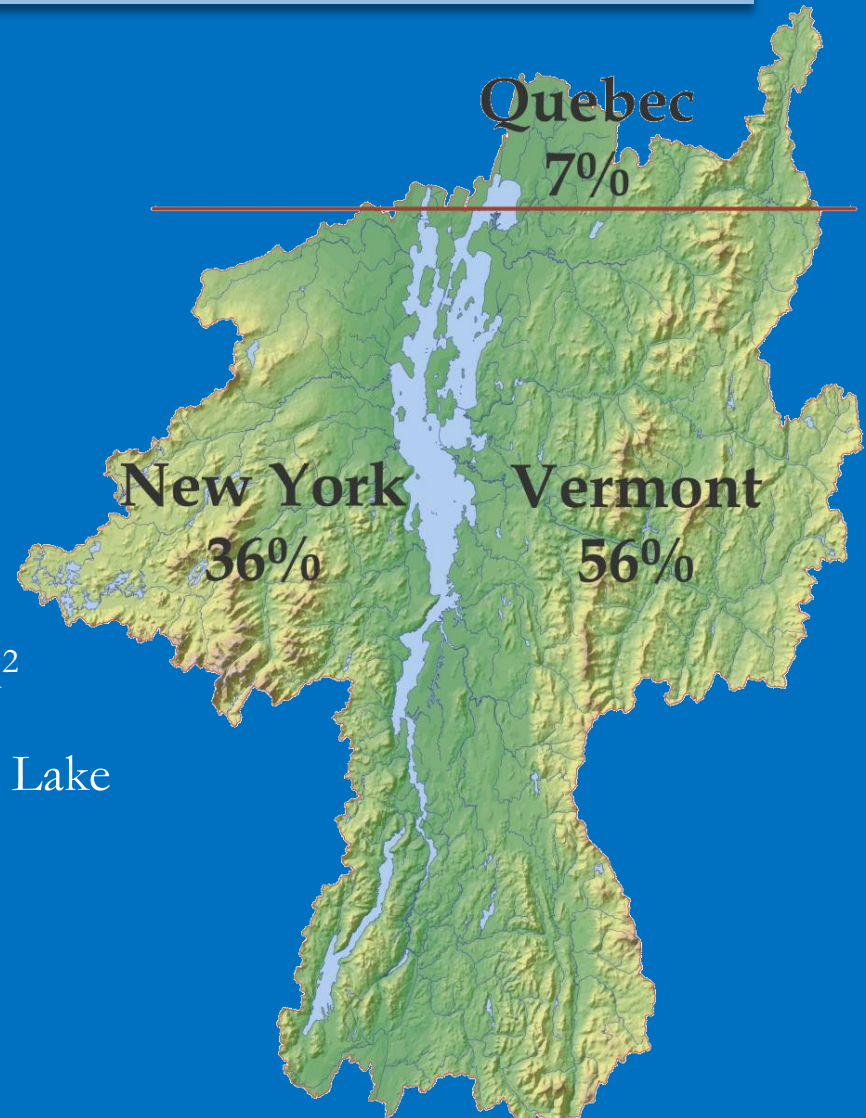
The Lake Champlain Basin

The Lake:

- **435** mi² (at average lake level)
- Over **400** feet deep in the middle
- Over **120** miles long

The Basin:

- The Drainage Basin is **8,234** mi²
- That is **18.9** times as large as the Lake





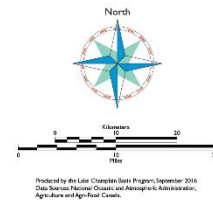
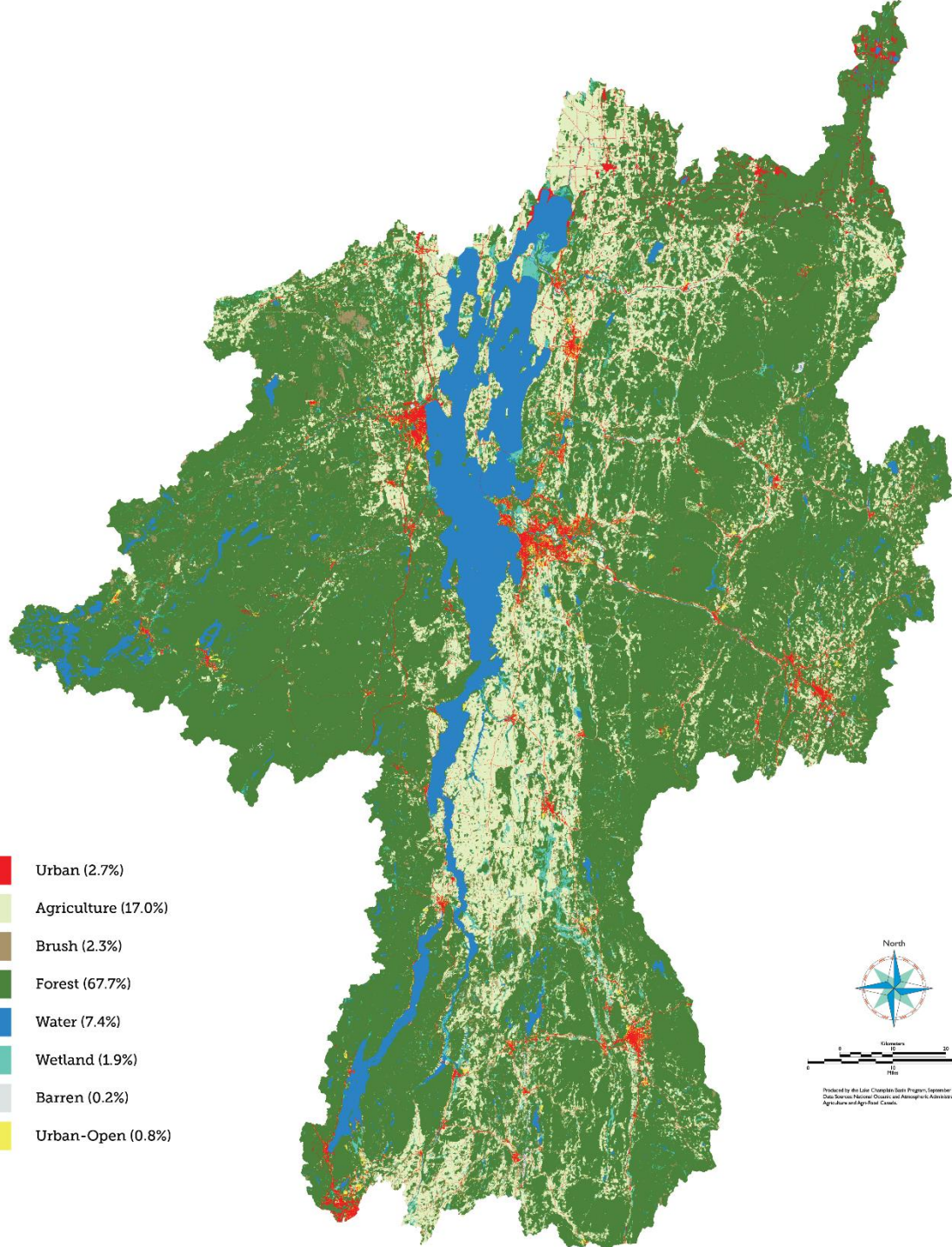
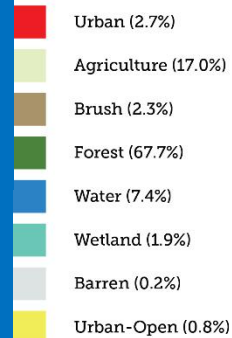






Land Uses in the LCB

Urban – 4%
Agriculture – 17%
Forest – 68%
Wetlands – 2%
Water – 7%



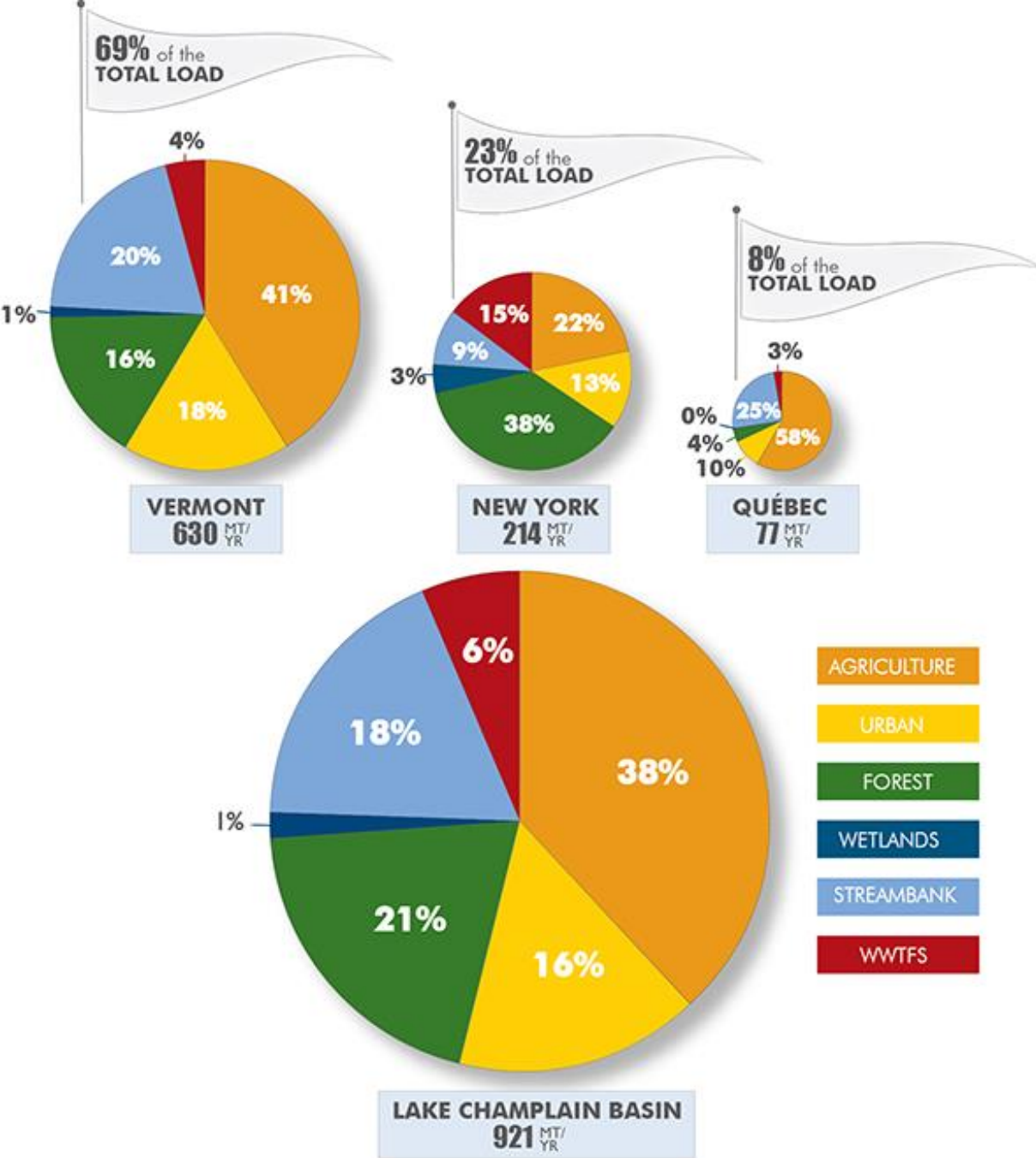


Figure 7, P. 10

NOTE: Grass/Shrub was included in the analysis but excluded from this graphic due to the comparatively low percentage of phosphorus.

Phosphorus Concentrations By Lake Segment

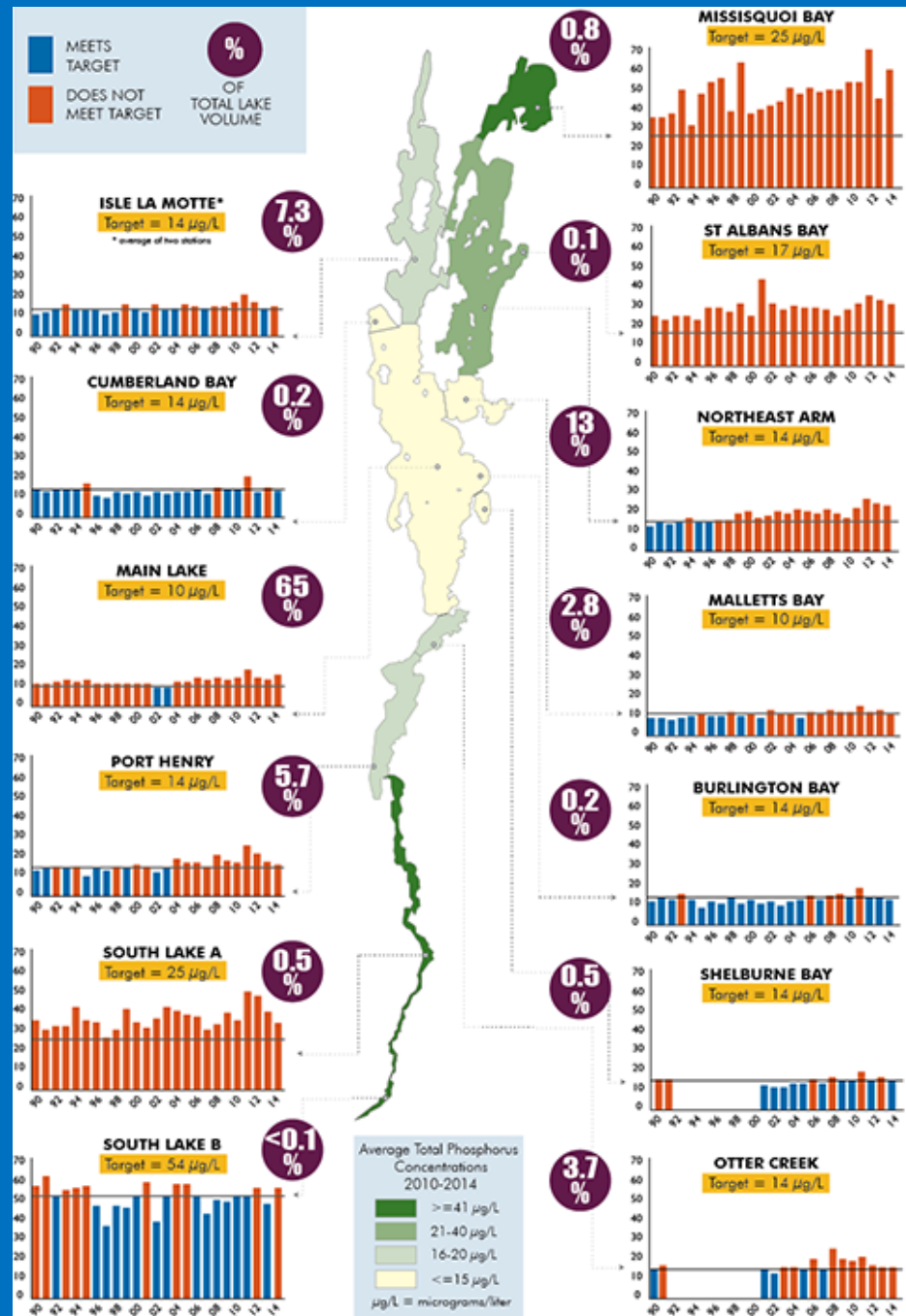
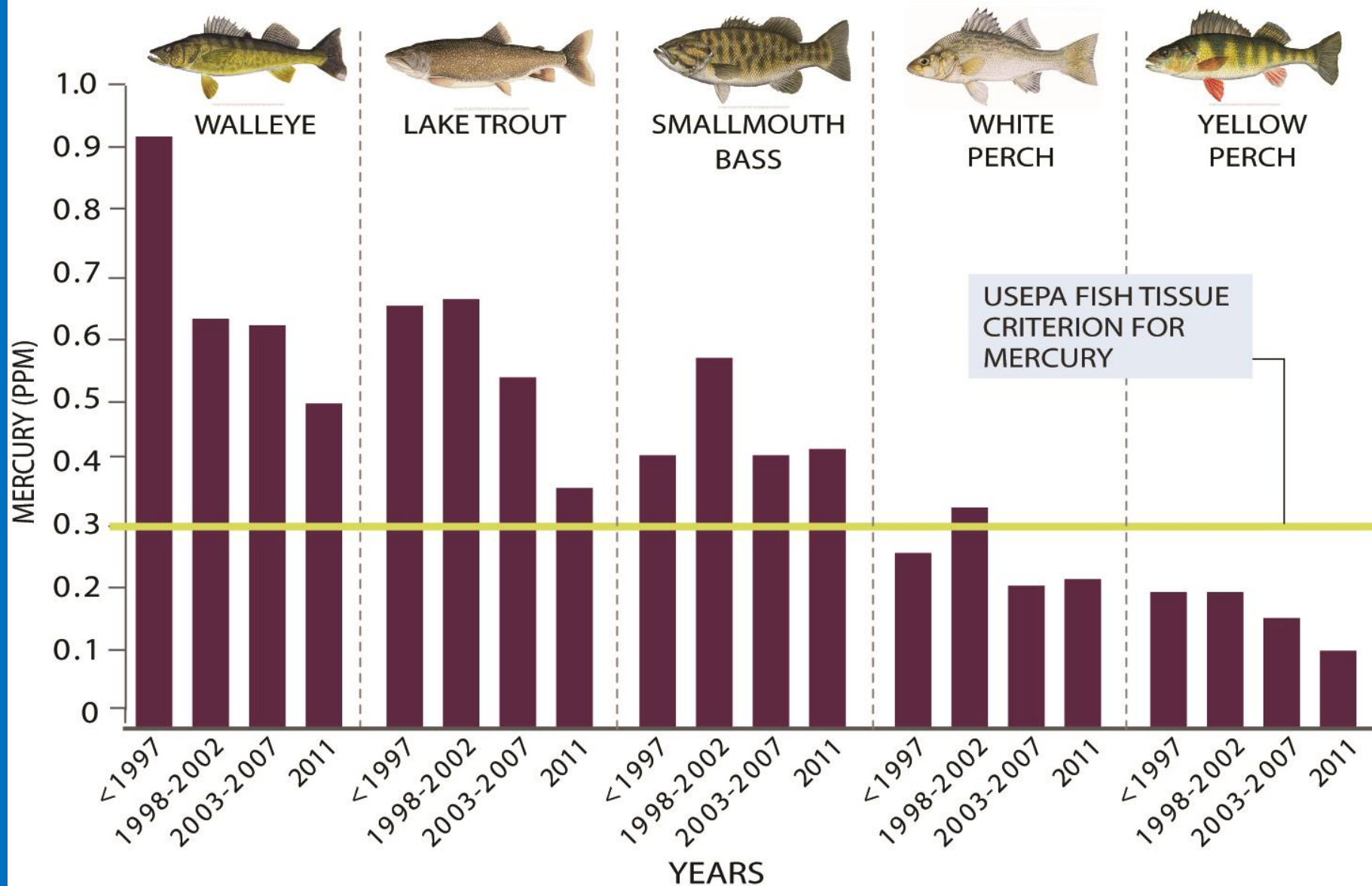


Figure 3, P. 6

DATA SOURCE: Long Term Monitoring Program (LCBP, VTANR, NYSDEC)

MERCURY CONCENTRATION IN FISH

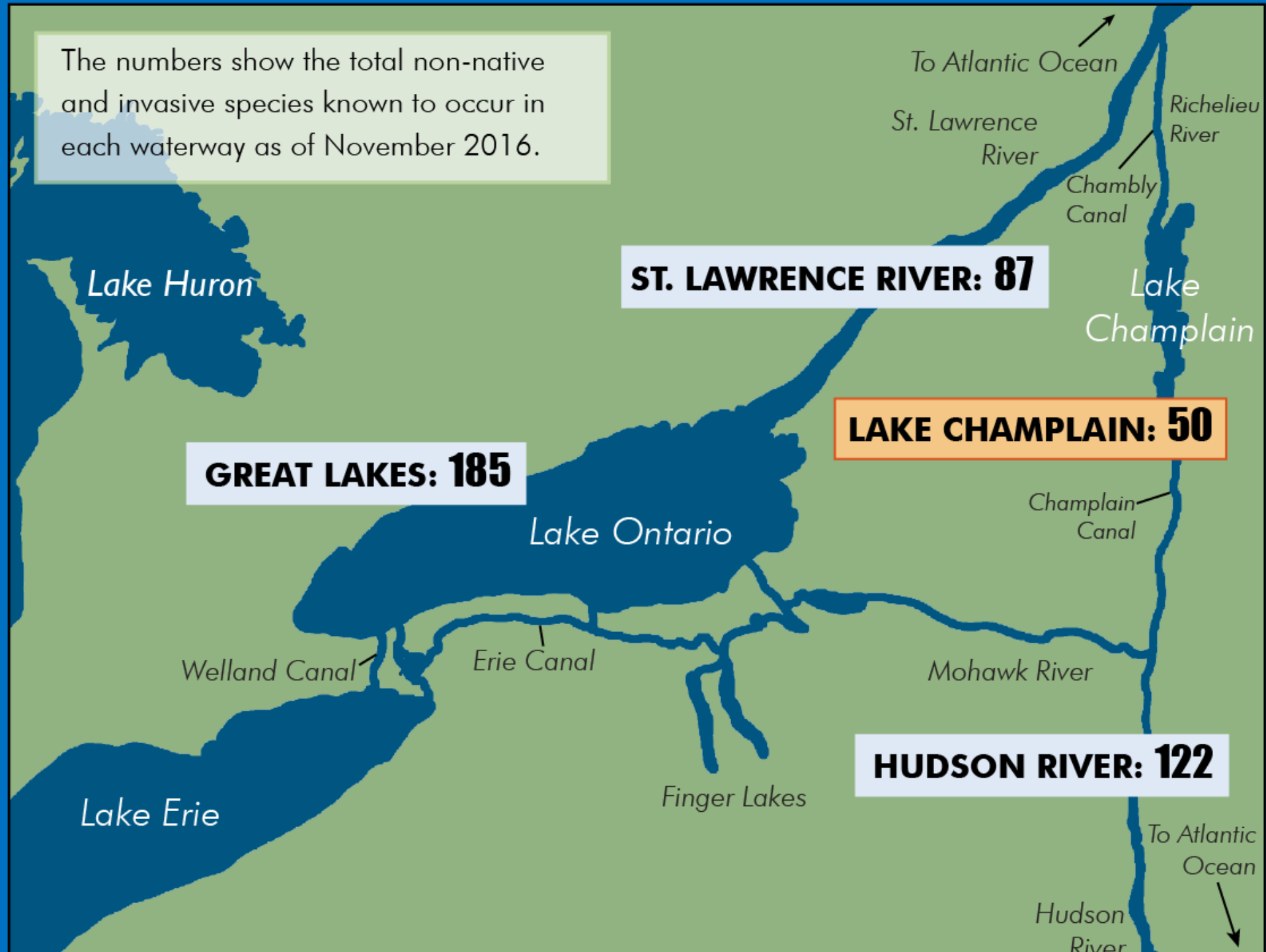


NOTE: The values are mean mercury concentrations, normalized to the average length of the fish.

DATA SOURCE: Vermont Agency of Natural Resources; 2011 data from Biodiversity Research Institute.

Figure 11, Pg. 15

The numbers show the total non-native and invasive species known to occur in each waterway as of November 2016.



Lake Huron

ST. LAWRENCE RIVER: 87

Lake Champlain

LAKE CHAMPLAIN: 50

GREAT LAKES: 185

Lake Ontario

Welland Canal

Erie Canal

Finger Lakes

Mohawk River

HUDSON RIVER: 122

Lake Erie

To Atlantic Ocean
St. Lawrence River

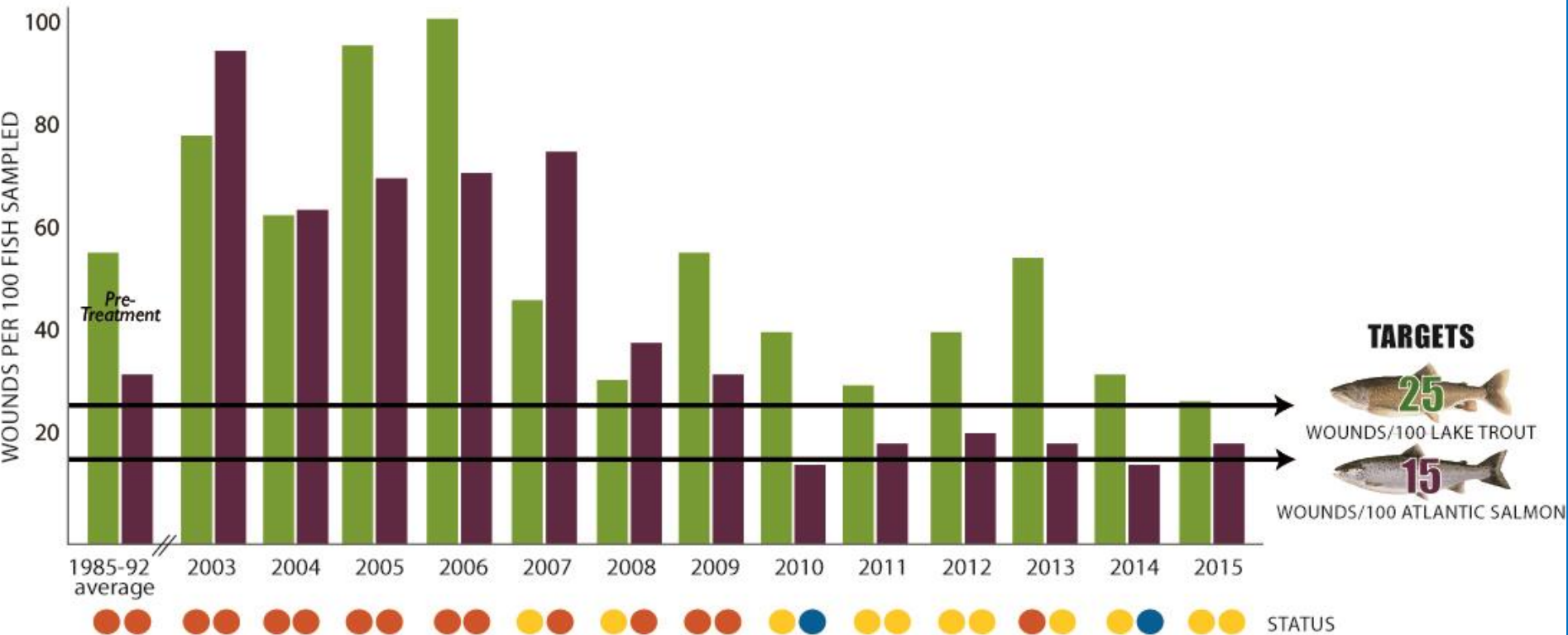
Richelieu River

Chambly Canal

Champlain Canal

To Atlantic Ocean
Hudson River

SEA LAMPREY WOUNDING RATES IN LAKE CHAMPLAIN



LAKE WIDE STATUS
by year

GOOD

Meets target for lake trout or salmon

FAIR

Within 50% of meeting the target for lake trout and salmon

POOR

Exceeds target by more than 50% for lake trout and salmon

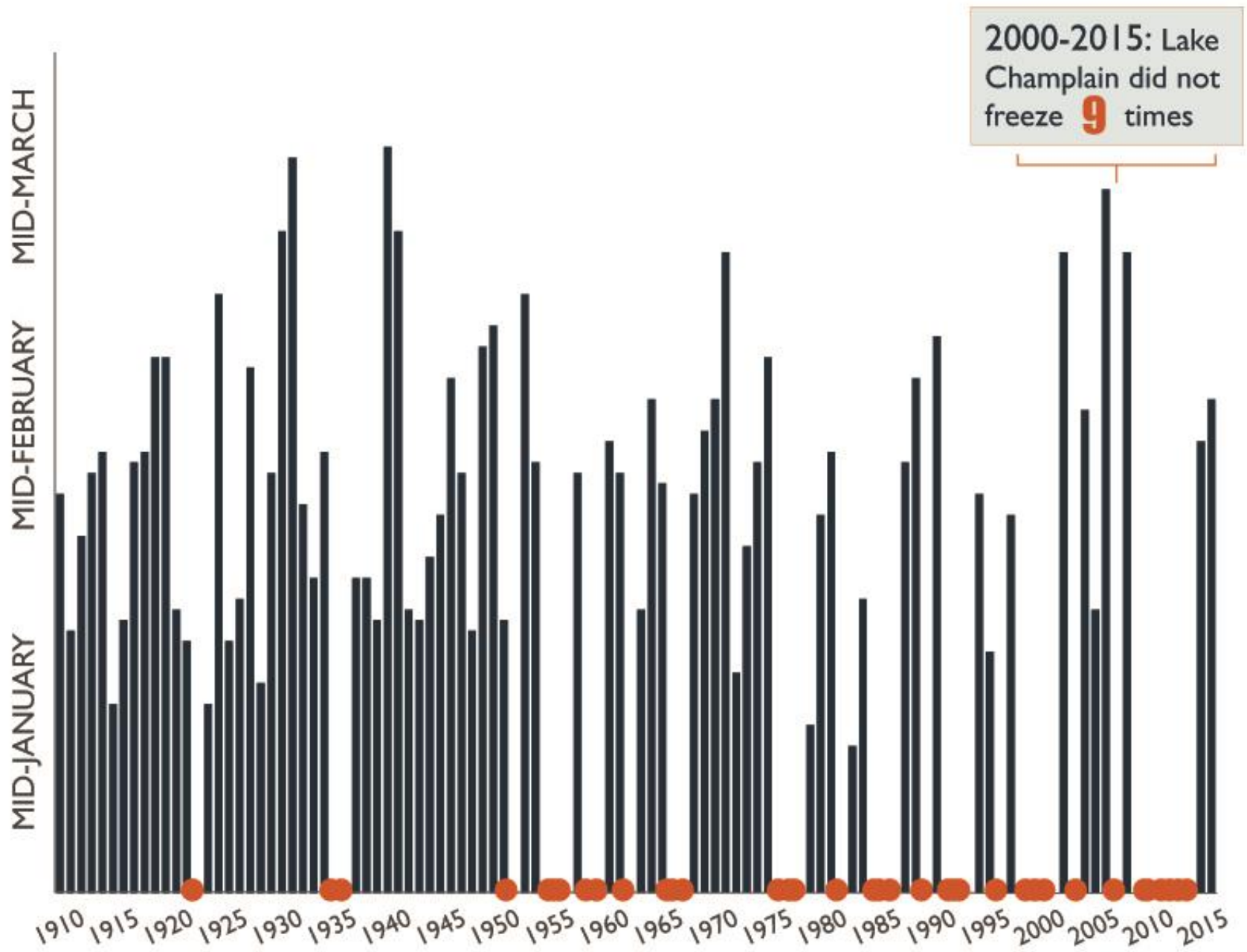
LAKEWIDE TREND

👍

NOTES: Lake trout were 533-633mm (21-25 in) in length. Salmon were 432-533 mm (17-21 in) in length. 1985-92 was pre-control. Previous versions of this graphic were limited to data from the main lake. This graphic contains lake-wide data.

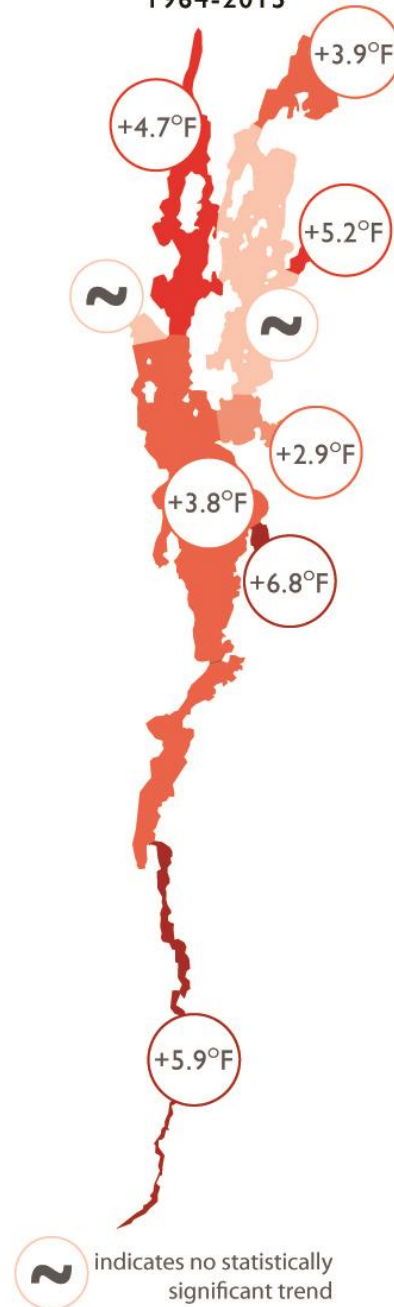
DATA SOURCE: Lake Champlain Fisheries Technical Committee

DATE OF LAKE CHAMPLAIN FREEZE-OVER



Summer lake
surface
temperatures are
increasing

CHANGE IN MEAN AUGUST
LAKE SURFACE TEMPERATURES
1964-2015



HELLO

I AM...

**LEAVING MY
COMFORT ZONE**

Thank you!



**Champlain Valley
National Heritage Partnership**

