# 2015 Water All QA Quality Snapshot

10%

15%

### June 5<sup>th</sup> AWQA Day

The goal of AWQA Day is to increase awareness and understanding of our water resources, while also promoting stewardship and personal involvement in the protection of our waterways.

The AWQA program has been provided by the Alberta Lake Management Society since 2005, but it's not restricted to a single day. Kits can be purchased at any time, and the entire openwater season is available for testing and reporting. In 2015, a total of **1094** people took part in sampling Alberta waterways with their AWQA kits, between May and November.





River

Lake



**Pond** 

Other (e.g. irrigation canals)

20%



Photo credit: Saikat Kumar Basu

### Thank

Minnie Lake Photo credit: ALMS

### You!

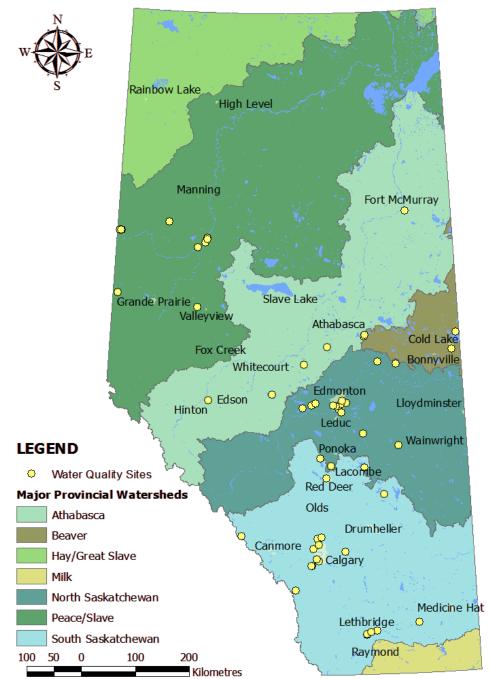
AWQA could not be a success without all of its eager participants. Thanks to all of those who took an interest in the health of their local watershed.

## Who participated?

AWQA participants are part of a wide variety of groups. Some of these for 2015 included:

- School groups
- Individuals & families
- Watershed groups
- Government agencies

### Where did people sample with their AWQA kits?



Major Basin	% of total participants in 2015	% of sites/watershed in 2015
Athabasca	8%	11%
Beaver	6%	11%
North Sask	54%	25%
Peace	9%	15%
South Sask	23%	38%

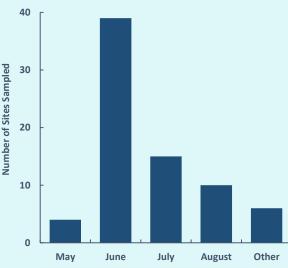
**What is a watershed?** An area of land that catches precipitation and drains into a larger body of water such as a wetland, stream, river or lake. No matter where you are, you are in a watershed.

Albertans sampled at over 70 sites in five of the seven major provincial watersheds this year, and measured the following water characteristics:

- Turbidity
- Dissolved Oxygen
- pH
- Water Temperature

These four characteristics of water quality are easy to measure in the field, and are important components of healthy aquatic ecosystems.

# When did people collect their samples?



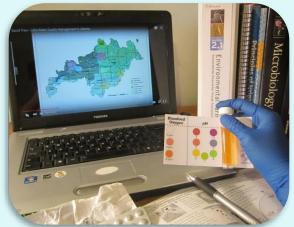
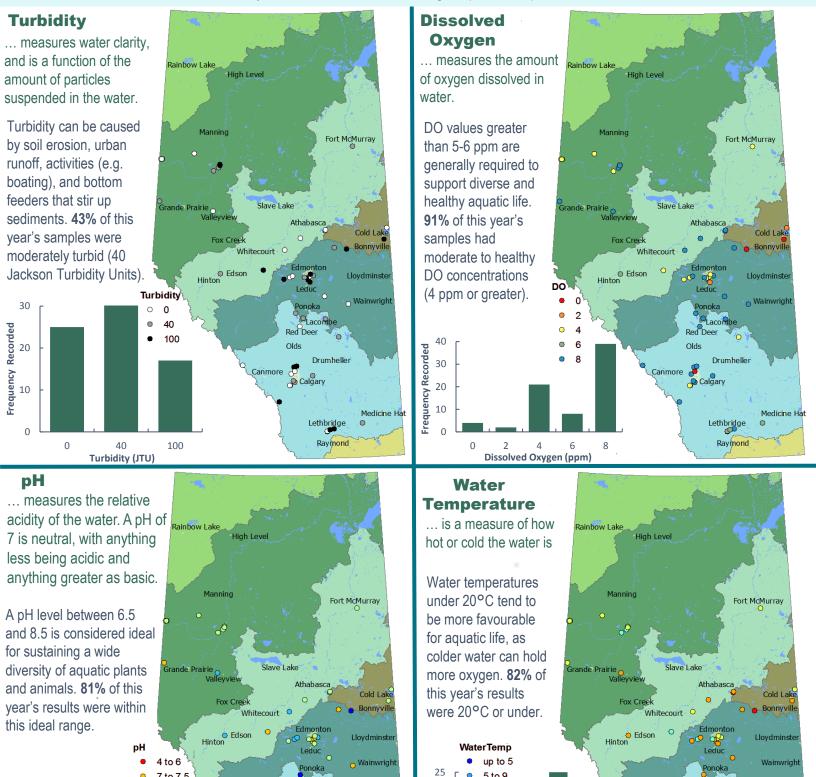


Photo credit: Saikat Kumar Basu

#### **2015 AWQA Water Quality Results**

The data collected for AWQA creates a snapshot of water quality, however it is not intended to provide rigorous scientific information. The value of this program comes from educational opportunities encountered during sampling, engagement of the public in understanding the benefits of a healthy watershed, and demonstrating the positive impact of collective action.



It was a long, hot summer for many Albertans, which explains the slight increase in water temperature from the previous year's results.

Turbidity and dissolved oxygen were also slightly increased, while pH remained the same in comparison to previous reports.

Lethbridge

Frequency Recorded

15 10 5 15 to 19

20 to 24

up to 5 5 to 9 10 to 14 15 to 19 20 to 24 25 +

Temperature (°C)

Olds

Lethbridge

8 to 8.5

9 to 9 5

9 to 9.5

10

40

Frequency Recorded

4 to 6

7 to 7.5

8 to 8.5



Photo credit: Sandra Kathnelson

# Save your test kit!

Each kit can test up to 10 samples and tablets will last over a year. Supplies from past years can be reused, and additional kits and refills can be purchased from ALMS. Data can be uploaded to the online database found at:

www.alms.ca

### What did Albertans have to say about their AWQA Day experience?



This was a slough. It had very long grass, frogs, and lots of green moss on it. We found baby birds around it.

Water level was low, submergent vegetation covered over 70% of the pond. There had only been 2 rain events that may have seen water flow into this pond in the 14 previous days.

Roland Kirzinger & Al Leong

Students from Byemoor School

ALMS Outreach program

Hot weather! A leech and dragonfly larva were found in the wetland. A family of coots and ducks were in the wetland.

#### Interested in getting more involved?

If you're interested and passionate about continuing your involvement in watershed and water quality activities, please think about:

- Joining a local watershed stewardship group
   Visit www.stewardshipdirectory.com and search for a group near you
- Consider volunteering with lake sampling through ALMS or another non-profit group

Find out more about becoming a LakeWatch volunteer with the Alberta Lake Management Society (www.alms.ca)

 Check out online resources to learn more about what we can do to protect water quality

Alberta Tomorrow is a great place to start for anyone, and also has lots of information for teachers (http://albertatomorrow.ca)

Thanks to our sponsors, kits were provided free of charge this year







TD Friends of the Environment Foundation

