



The Water Quality Portal |



# Topics

- Introduction to the Water Quality Portal and the Water Quality eXchange (WQX)
- Introduction to web services
- Hands-On: Downloading data from the Water Quality Portal
- Data Reuse examples
  - Citations
  - How's My Waterway 2.0 brief demo
  - Efficiencies in Water Quality Assessments  
– Jason Jones, AZDEQ



**APA website citation:**

Leahey, A., Kellman, A., & Rovi. (n.d.). *Beyoncé*. Retrieved April 20, 2016, from <http://www.billboard.com/artist/281569/beyonce/biography>

Rodney, S. (2016, February 11). *The myth of Beyoncé and pop cultural liberation*. Retrieved April 20, 2016, from <http://hyperallergic.com/275164/the-myth-of-beyonce-and-pop-cultural-liberation/>

<i>Length</i>	<i>Weight</i>	<i>Volume</i>
1 km = 1,000 m	1 kg = 1,000 g	1 kL = 1,000 L
1 m = .001 km	1 g = .001 kg	1 L = .001 kL
1 m = 100 cm	1 g = 100 cg	1 L = 100 cL
1 cm = .01 m	1 cg = .01 g	1 cL = .01 L
1 m = 1,000 mm	1 g = 1,000 mg	1 L = 1,000 mL
1 mm = .001 m	1 mg = .001 g	1 mL = .001 L



Jane, it's your  
lucky day.

Jane McGillicuddy  
125 Clover Lane  
Boston, MA 02111



USPS  
MARKETING MAIL  
U.S. POSTAGE  
PAID  
PERMIT NO. 1

# Standards

- Efficient and clear way for humans & computers to communicate
- Makes reusing information easier
  - Information is more valuable than it's original purpose

# Water Quality eXchange (WQX)

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- Data sharing standard (e.g. “Phos” = “Phosphorus”)
- Data of documented quality (e.g. qualifier codes, methods used, QA results, etc)
- Delivers data to be published by the portal
  - Wednesday and Saturday nights

# Water Quality Portal

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- Sponsored by the National Water Quality Monitoring Council
- One Location, One format, One standard
- Share water quality data collected under the CWA 106 Program
- Use readily available data for the Integrated Report
- Data in WQX format

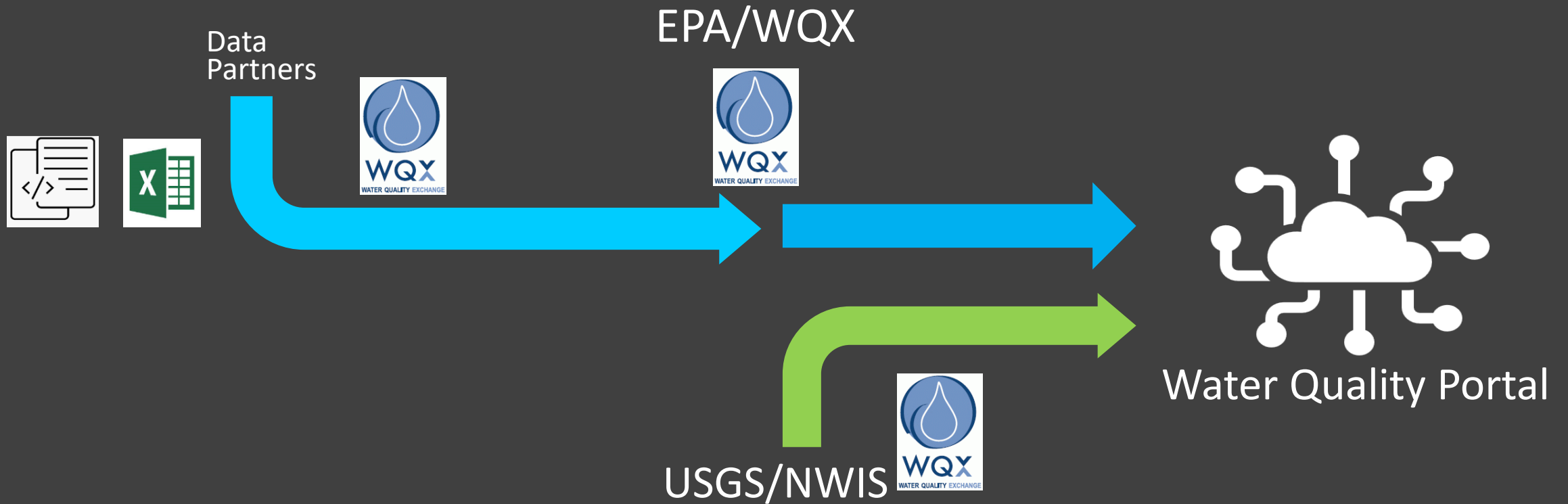
Up-to 385 Users/hour

24k Users/month

550K Lifetime Users

# Water Quality Portal Structure

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# Water Quality Portal – Web Service progress

Station Name	Time period	View and Download Data
Goose #1	2009-2017	Select
Goose #2	2015-2018	Select

1



One data source available from source directly

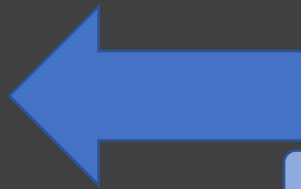
Multiple data sources available from one source in one format



Station Name	Time period	System Provider	View and Download Data
Goose #1	2009-2017	FCATTAIL	Select
Goose #2	2015-2018	FCATTAIL	Select
USGS-Goose	2001-2018	NWIS	Select
VA_WQX-Goose	2004-2018	WQX	Select

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Multiple data sources available from source directly but all in different formats



Station Name	Time period	System Provider	View and Download Data
Goose #1	2009-2017	FCATTAIL	Select
Goose #2	2015-2018	FCATTAIL	Select
USGS-Goose	2001-2018	NWIS	Select
VA_WQX-Goose	2004-2018	WQX	Select

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# Hands-on Activity & Demonstrations

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- Download data from the Water Quality Portal : Hands-on
  - [https://acwi.gov/monitoring/pubs/WIS\\_2017\\_fs/WQP\\_Step\\_by\\_step.guide.pdf](https://acwi.gov/monitoring/pubs/WIS_2017_fs/WQP_Step_by_step.guide.pdf)
- Demonstration of web services and data reuse examples
  - How's My Waterway 2.0 – Jesse Boorman-Padgett
  - Efficiencies in Water Quality Assessments - Jason Jones, AZDEQ



# Additional Resources

- [Water Quality Portal Testimonial Video](#)
- [Water Quality Portal Step-by-step guide](#)