



UTAH DEPARTMENT *of*  
ENVIRONMENTAL QUALITY

**WATER  
QUALITY**

## Utah Fish Consumption Advisory Program Update

Water Quality and Health Advisory Panel  
January 12, 2017

# 2015 Results



# 2015 fish tissue sampling locations

- 363 fish collected by Division of Wildlife Resources regional staff
- 18 locations
- 15 different species

## Northeastern Region

Big Sand Wash Reservoir  
Browne Reservoir  
Browns Draw Reservoir  
Cottonwood Reservoir  
Long Park Reservoir  
  
Matt Warner Reservoir  
Spirit Lake  
Steinaker Reservoir

## Southern Region

Baker Dam Reservoir  
Minersville Reservoir  
Upper Enterprise Reservoir

## Northern Region

Hyrum Reservoir  
Pineview Reservoir  
Porcupine Reservoir

## Central Region

Utah Lake

## Southeastern Region

Huntington North Reservoir  
Millsite Reservoir  
Scofield Reservoir



# Criteria for site selection

- When a current consumption advisory is greater than 5 years old
- When there is no advisory but the existing data are greater than 5 years old
- To address uncertainties from previous years data
- Waterbodies that have no mercury data



## New Consumption Advisories

# Big Sand Wash Reservoir (Duchesne County)

Species	Average Fish Mercury Concentration (ug/g)	Pregnant Women and Children <6, 4 oz meals/month	Women of Childbearing Age and Children 6-16, 8 oz meals/month	Adult Women Past Child-bearing Age and Men >16, 8 oz meals/month
<b>Smallmouth Bass</b>	<b>0.82</b>	<b>0</b>	<b>1</b>	<b>3</b>
<b>Walleye</b>	<b>0.61</b>	<b>0</b>	<b>1</b>	<b>5</b>
<b>Yellow Perch</b>	<b>0.58</b>	<b>0</b>	<b>1</b>	<b>5</b>



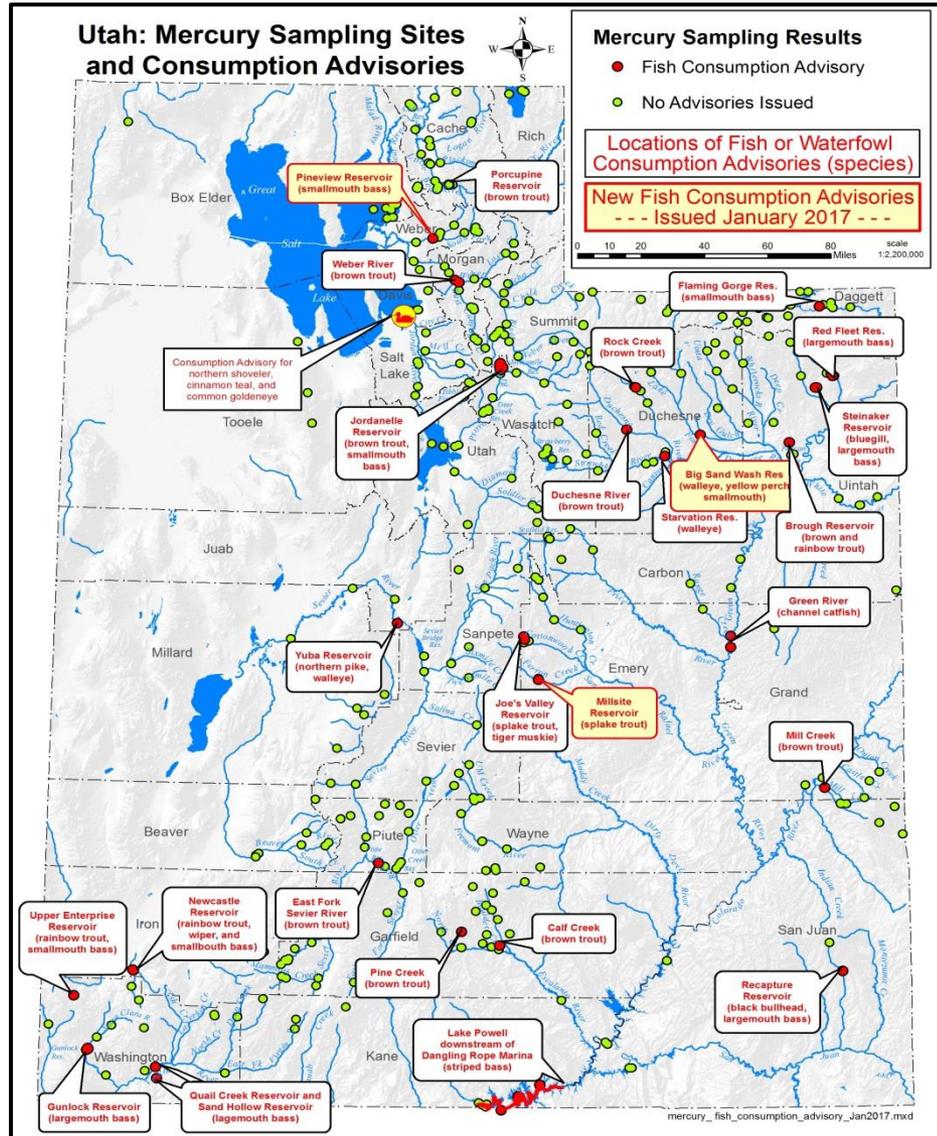
## New Consumption Advisories Millsite Reservoir (Emery County)

Species	Average Fish Mercury Concentration (ug/g)	Pregnant Women and Children <6, 4 oz meals/month	Women of Childbearing Age and Children 6-16, 8 oz meals/month	Adult Women Past Child-bearing Age and Men >16, 8 oz meals/month
Splake Trout	0.42	1	2	7



## New Consumption Advisories Pineview Reservoir (Weber County)

Species	Average Fish Mercury Concentration (ug/g)	Pregnant Women and Children <6, 4 oz meals/month	Women of Childbearing Age and Children 6-16, 8 oz meals/month	Adult Women Past Child-bearing Age and Men >16, 8 oz meals/month
Smallmouth Bass	0.40	1	2	8



# Process for rescinding consumption advisories and delisting waterbodies



# Process for Rescinding Consumption Advisories

- EPA November 2000 Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories

Volume 1, Section 6.1.2.7.3, Comparison of Target Analyte Concentrations with Screening Values for Rescinding Fish Advisories

- 2010 EPA survey of state programs

Once an advisory is issued for a specific waterbody, what must occur for the state to rescind the advisory?

Criteria	Number of states
Residue levels of the chemical must decline below the state criterion for at least 1 year	7
Residue levels of the chemical must decline below the state criterion for at least 2 years	12
Residue levels of the pollutant must decline below the state criterion for at least 3 years	2
Site-specific decision; no set time period established	18
Other schedule or procedure	14
Not applicable	3

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# Process for Rescinding Consumption Advisories

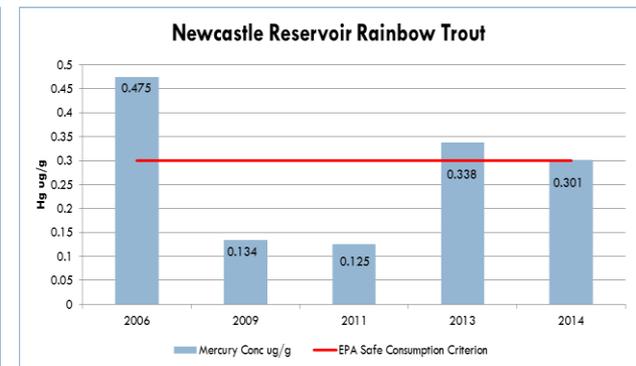
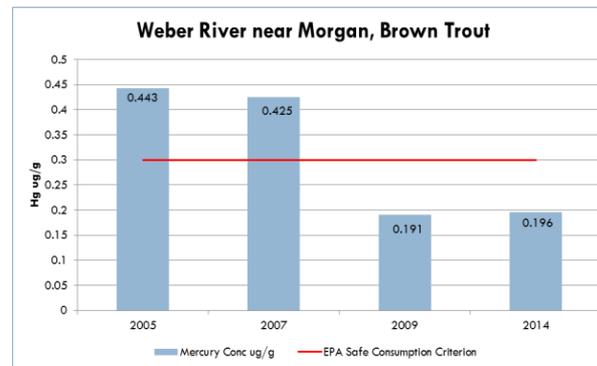
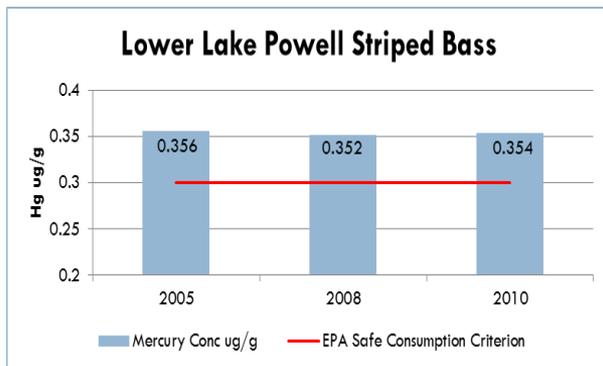
- DWQ, DWR and DOH advisory program staff met to discuss this
  - ★ Recommending a minimum of two consecutive periods of follow up monitoring with mercury levels below the EPA recommended safe consumption criterion

The monitoring location would then be prioritized for additional monitoring at least once every 5 years to watch variability over time

# Process for Rescinding Consumption Advisories

For discussion:

- Knowing there can be considerable variability in mercury concentrations at the same location over time should we ever rescind an advisory?
- If so, do you feel two consecutive periods of monitoring is sufficient?



# Utah Lake PCBs



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# Utah Lake PCBs

- Consumption advisory for carp and channel catfish issued in 2006 and 2007
- As a result Utah Lake is 303(d) listed for PCBs
- Samples from multiple species have been submitted to EPA for analysis
- ★ Will delisting method be the same for beneficial use assessment as it is for consumption advisories, or should we be consistent with river/stream assessments and consider the last 6 years of data



# Questions?



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