



UTAH DEPARTMENT *of*
ENVIRONMENTAL QUALITY

**WATER
QUALITY**

Utah Fish Consumption Advisory Program Update

Water Quality Health Advisory Panel
April 23, 2018



2016 Results



2016 fish tissue sampling locations

- 201 fish collected by Division of Wildlife Resources regional staff
- 13 different species
- 16 locations

Causey Reservoir

Steinaker Reservoir *

Utah Lake

Mill Creek *

San Juan River (3 locations)

Tropic Reservoir

Newcastle Reservoir *

Wide Hollow Reservoir

Pine Lake

Upper Box Creek Reservoir

Minersville Reservoir

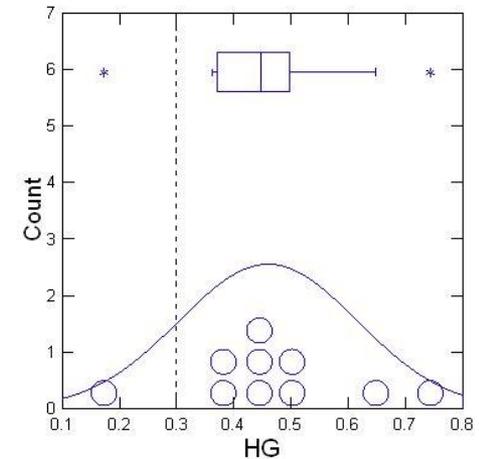
Joes Valley Reservoir *

Mill Meadow Reservoir



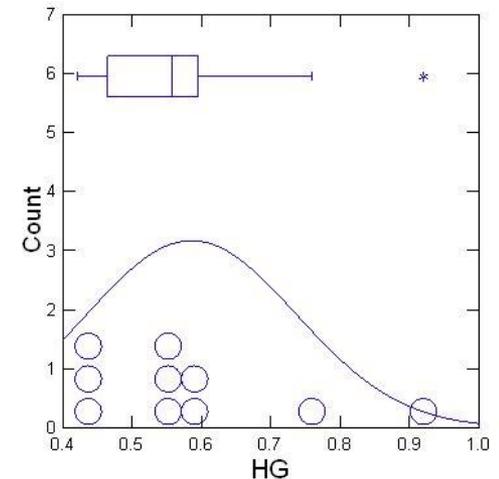
New Consumption Advisories Causey Reservoir (Weber County)

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
Brown Trout	0.46	0	2	6



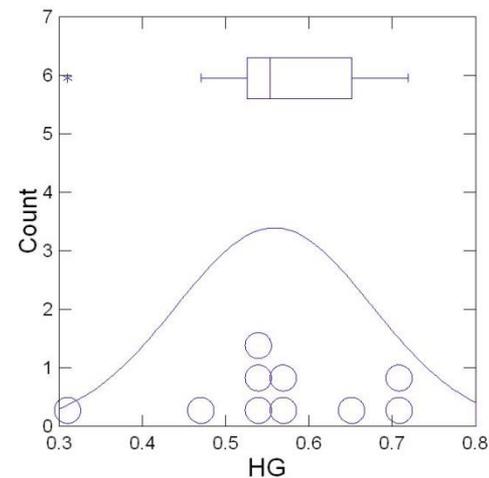
New Consumption Advisories Minersville Reservoir (Beaver County)

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
Wiper	0.59	0	1	5

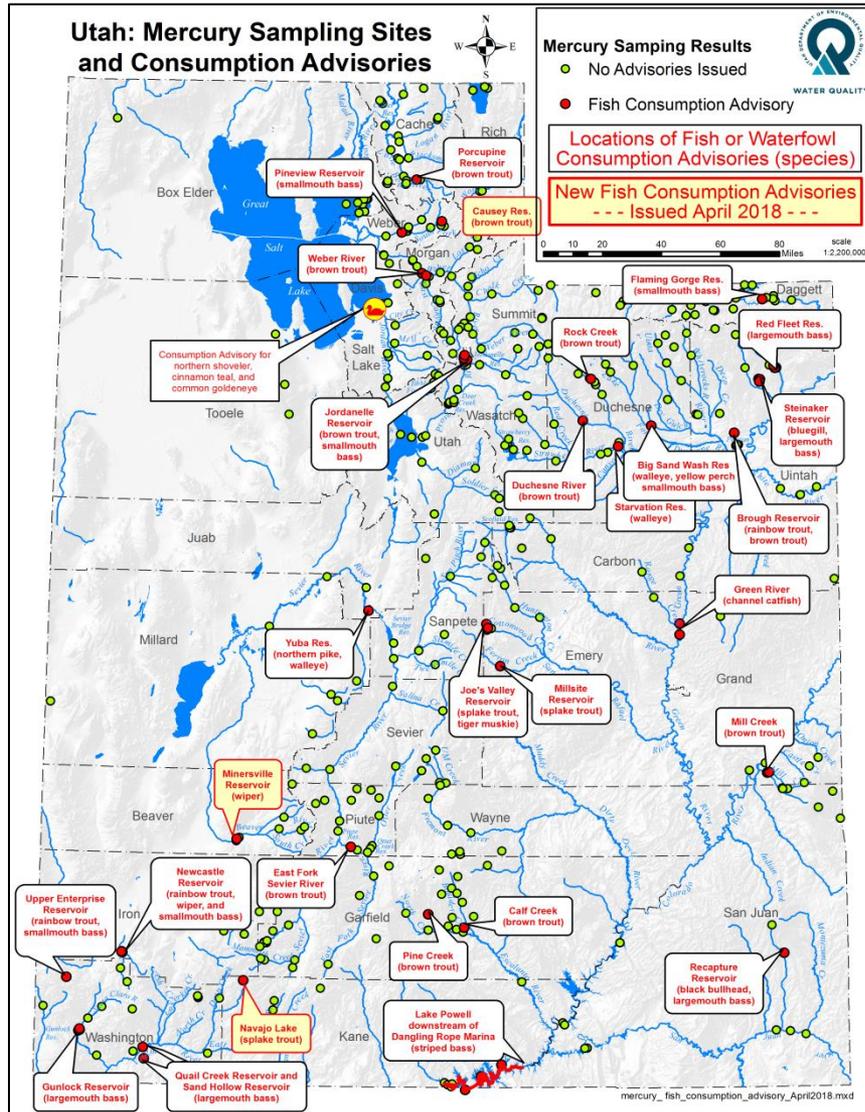


New Consumption Advisories Navajo Lake(Kane County)

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	0.56	0	1	5



fishadvisories.utah.gov



2018 Sampling Plan



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 more than 5 years old
- To address uncertainties from previous years data
- Waterbodies that have no fish mercury data



Northern Region

- Bear Lake
 - Lake Trout, Cutthroat Trout, Bonneville Whitefish
 - Data > 5 years old
- Weber River
 - Brown Trout
 - Potentially remove consumption advisory



Weber River

Northeastern Region

- Bullock Reservoir:
 - No data for this location
- Pelican Lake:
 - Bluegill and Largemouth Bass
 - Data > 5 years old



Pelican Lake

Southern Region

- Forsyth Reservoir
 - Data > 5 years old
- Barney Lake
 - Tiger Trout and Cutthroat Trout
 - Data > 5 years old
- Oak Creek Reservoir
 - No data for this location
- Kents Lake
 - No data for this location
- Newcastle Reservoir
 - Rainbow Trout and Wiper
 - Mercury remediation project



Kents Lake

Southeastern Region

- Ferron Reservoir
 - No data for this location
- Duck Fork Reservoir
 - No data for this location
- Lloyd's Lake
 - No data for this location



Ferron Reservoir

Rescinding Consumption Advisories



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
Remaining states make site-specific decisions or no set time period established	

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 – at least 1 year apart - 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

Weber River near Morgan

Year	N	Min	Max	Mean	P Value	95% LCL	95% UCL
2005	5	0.39	0.56	0.44	0.004	0.36	0.53
2007	3	0.37	0.46	0.43	0.03	0.30	0.55
2009	10	0.07	0.43	0.19	0.996	0.12	0.26
2014	10	0.12	0.30	0.20	1.0	0.17	0.24

Questions?

