

# Update

## Tribal Governments in Idaho

### Fish Consumption Surveys

1

IDAHO NEGOTIATED RULEMAKING  
MEETING

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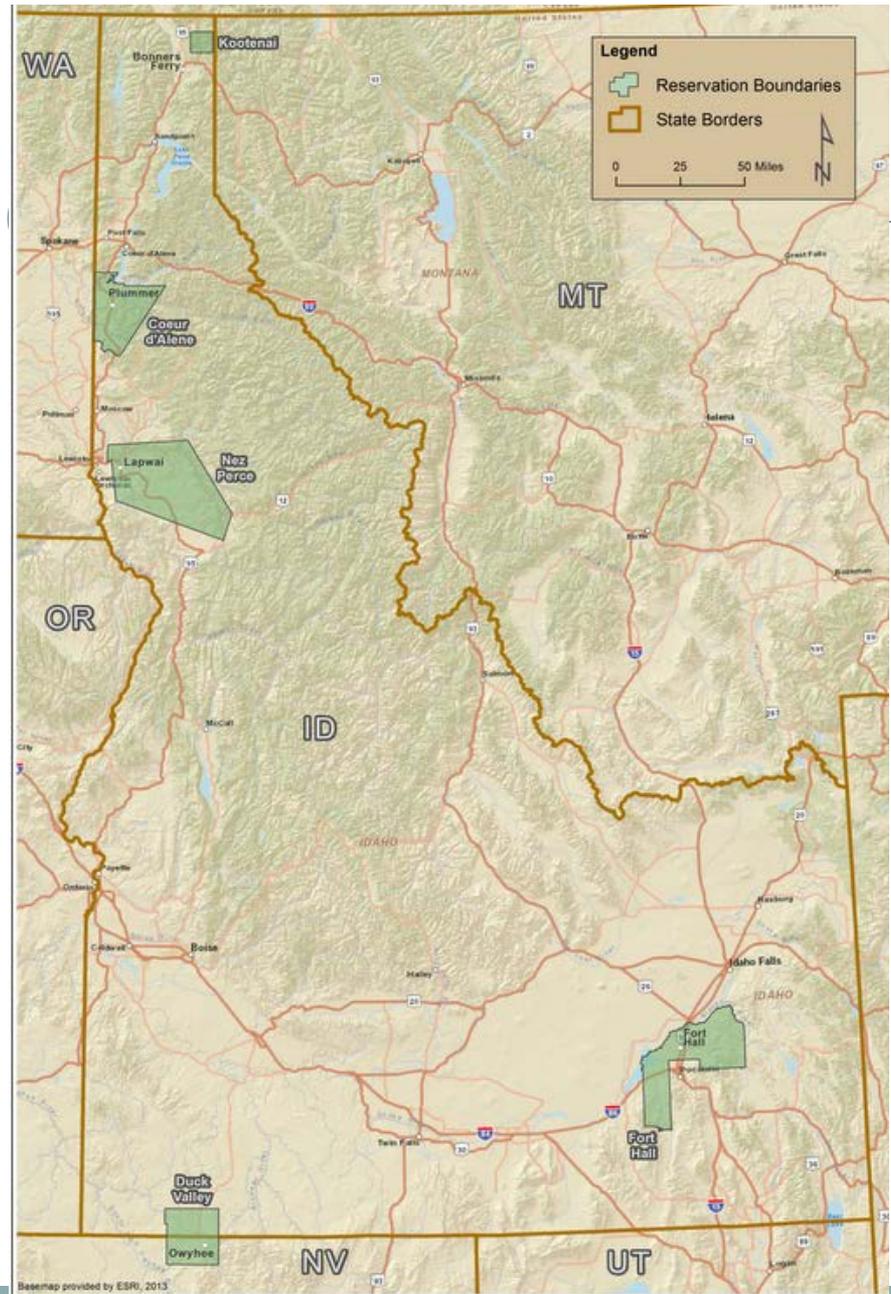
# Update: ID Tribal Fish Consumption Surveys

2

- **Review General Background of Work Effort**
- **Tribal Fish Consumption Survey Work Efforts**
- **Tribal Heritage Rate Study Work Efforts**
- **Next Steps**

# TRIBES IN IDAHO

- Kootenai Tribe of Idaho
- Coeur D'Alene Tribe
- Nez Perce Tribe
- Shoshone-Bannock Tribes (Fort Hall)
- Shoshone-Paiute Tribes (Duck Valley)



# Understanding Tribal Fish Consumption

## General Background

4

- Tribal Governments in ID have been working w/ EPA and EPA contractors on a 2014-2015 survey on types and amounts of fish consumed by tribal people
- Support provided through EPA Indian General Assistance Program funds, administered through an EPA contract
- Outcome - build tribal environmental capacity and inform future tribal/EPA WQS decisions
- Ongoing EPA commitment to share information on Tribal work @ ID DEQ Negotiated Rulemaking Meetings

# Purpose of Surveys

5

## **Purpose of the Tribal Surveys**

- Tribal environmental capacity building
- Determine current & heritage fish consumption rates
- Understand causes of & reasons for suppression & hopes for the future
- Potential use in development of Tribal water quality standards
- Potential use by Idaho DEQ

## **Differences in Surveys**

- ✦ Only Shoshone Bannock and Nez Perce are participating in the quantitative survey

# Tribal Survey Design

6

## Current Rate/Quantitative Study

- ✦ Approximately 1 hour in person interviews with Tribal members which include the use of 3-D portion models
- ✦ For NCI Method - Follow up 20 minute phone call, the interview repeats a subset of questions on the 24-hour dietary recall

## Heritage Rate Study

- ✦ Evaluate historical and recent literature
- ✦ Develop range of rates for each Tribe

# Example Page in ID Tribal Survey

7

**Table A-3. 24-Hr Recall: Types, Quantities, Methods, and Sources of Fish Eaten Yesterday**

Occasion # & Description <sup>1</sup>	Species Type <sup>2</sup>	Portion Size / Quantity <i>See Displays (enter display #)</i>	Preparation / Cooking Method <i>Check box</i>	Source <i>Check box</i>
1	Species 1:	Salmon sections #s _____ Trout (thin) fillets: _____ Lamprey sections: _____ Jerky packages: _____ Soup bowls: _____ cups Shellfish (organisms): _____	<input type="checkbox"/> Fried / Sauteed <input type="checkbox"/> Stew, Soup <input type="checkbox"/> Baked / Roasted <input type="checkbox"/> Canned, Pickled <input type="checkbox"/> Broiled / Grilled <input type="checkbox"/> Microwaved <input type="checkbox"/> Poached / Boiled <input type="checkbox"/> Raw / Uncooked <input type="checkbox"/> Dried, Smoked, Salted <input type="checkbox"/> Other, Unknown <input type="checkbox"/> Casserole, Mixed Dish	<input type="checkbox"/> Market / Store <input type="checkbox"/> Restaurant <input type="checkbox"/> Caught ----- <input type="checkbox"/> In Idaho <input type="checkbox"/> Outside of Idaho
	Species 2:	Salmon sections #s _____ Trout (thin) fillets: _____ Lamprey sections: _____ Jerky packages: _____ Soup bowls: _____ cups Shellfish (organisms): _____	<input type="checkbox"/> Fried / Sauteed <input type="checkbox"/> Stew, Soup <input type="checkbox"/> Baked / Roasted <input type="checkbox"/> Canned, Pickled <input type="checkbox"/> Broiled / Grilled <input type="checkbox"/> Microwaved <input type="checkbox"/> Poached / Boiled <input type="checkbox"/> Raw / Uncooked <input type="checkbox"/> Dried, Smoked, Salted <input type="checkbox"/> Other, Unknown <input type="checkbox"/> Casserole, Mixed Dish	<input type="checkbox"/> Market / Store <input type="checkbox"/> Restaurant <input type="checkbox"/> Caught ----- <input type="checkbox"/> In Idaho <input type="checkbox"/> Outside of Idaho
	Species 3:	Salmon sections #s _____ Trout (thin) fillets: _____ Lamprey sections: _____ Jerky packages: _____ Soup bowls: _____ cups Shellfish (organisms): _____	<input type="checkbox"/> Fried / Sauteed <input type="checkbox"/> Stew, Soup <input type="checkbox"/> Baked / Roasted <input type="checkbox"/> Canned, Pickled <input type="checkbox"/> Broiled / Grilled <input type="checkbox"/> Microwaved <input type="checkbox"/> Poached / Boiled <input type="checkbox"/> Raw / Uncooked <input type="checkbox"/> Dried, Smoked, Salted <input type="checkbox"/> Other, Unknown <input type="checkbox"/> Casserole, Mixed Dish	<input type="checkbox"/> Market / Store <input type="checkbox"/> Restaurant <input type="checkbox"/> Caught ----- <input type="checkbox"/> In Idaho <input type="checkbox"/> Outside of Idaho
2	Species 1:	Salmon sections #s _____ Trout (thin) fillets: _____ Lamprey sections: _____ Jerky packages: _____ Soup bowls: _____ cups Shellfish (organisms): _____	<input type="checkbox"/> Fried / Sauteed <input type="checkbox"/> Stew, Soup <input type="checkbox"/> Baked / Roasted <input type="checkbox"/> Canned, Pickled <input type="checkbox"/> Broiled / Grilled <input type="checkbox"/> Microwaved <input type="checkbox"/> Poached / Boiled <input type="checkbox"/> Raw / Uncooked <input type="checkbox"/> Dried, Smoked, Salted <input type="checkbox"/> Other, Unknown <input type="checkbox"/> Casserole, Mixed Dish	<input type="checkbox"/> Market / Store <input type="checkbox"/> Restaurant <input type="checkbox"/> Caught ----- <input type="checkbox"/> In Idaho <input type="checkbox"/> Outside of Idaho

# Tribal Survey Implementation

8

- Board Approvals on Methodology
- Tribal Interviewers
  - Nez Perce and Shoshone-Bannock Tribal interviewers
- Training/Mentoring
- Mock interviews
- Pilot Test – April/May
- Live interviews began in May 2014
- Interviews ongoing
- Quality Control ongoing
- Portion Size Models and Supplemental Photos Used



# Tribal Quantitative Surveys

9

- **Nez Perce Tribe**
  - EPA and Nez Perce Tribe working to increase first and second interviews to meet NCI method
    - ✦ Currently have 387 1<sup>st</sup> & 335 2<sup>nd</sup> interviews
  - EPA and CRITFC assisting in interviews in December, March and April
- **Shoshone Bannock Tribe**
  - Tribal interviewers are working hard to increase tribal surveys to meet NCI method
    - ✦ Currently have 168 1<sup>st</sup> & 144 2<sup>nd</sup> interviews



# Meeting the FFQ and NCI Methodologies

10



- Target number of interviews for the FFQ is 385; we currently have 555
  - 385 provides 95% confidence level, w/ margin of error of  $\pm 4.95\%$
- NCI methodology depends upon first & second interviews; & a minimum # of first & second interviews that demonstrate fish consumption w/in 24 hours in both interviews (**defined as *double hit***).
- 90+% of the way towards reaching our desired double hit #
- Based on previous results, remaining effort will attain target

# Tribal Heritage Rate Studies

11

- Heritage rate studies will be completed for 4 ID Tribes
- Survey implementation team compiled a list of historical and recent literature to inform the heritage rate studies.
- Draft heritage studies provided to tribes.
- Tribal Govts have been conducting appropriate review of draft studies.
- Final studies will provide a range of rates specific to each Tribe – expected June 2015.

# Heritage Studies

12

- **Summary of Historical Fish Harvest and Consumption**
- **Summary of Causes of Decline in Fish Populations**
- **Discussion of Heritage Fish Consumption**
- **Columbia Basin-Wide Heritage Rates**
- **Proposed Tribal Heritage Rates**
- **References**

# Peer Review

13

- Peer review will be done for FFQ and NCI survey results
- EPA Office of Water Peer Review contract
- Summer of 2015
- Peer reviewed results will be provided to ID DEQ by September 18<sup>th</sup> as a part of public comment

# Schedule

14

## Tribal Schedule (12-month data collection)

4/30/15 – Preliminary FCR to ID (based on FFQ, not peer reviewed)

7/15/15 – Draft FCR to ID (based on all data, not peer reviewed)

9/30/15 – Final Tribal FCR Report to ID (peer reviewed)

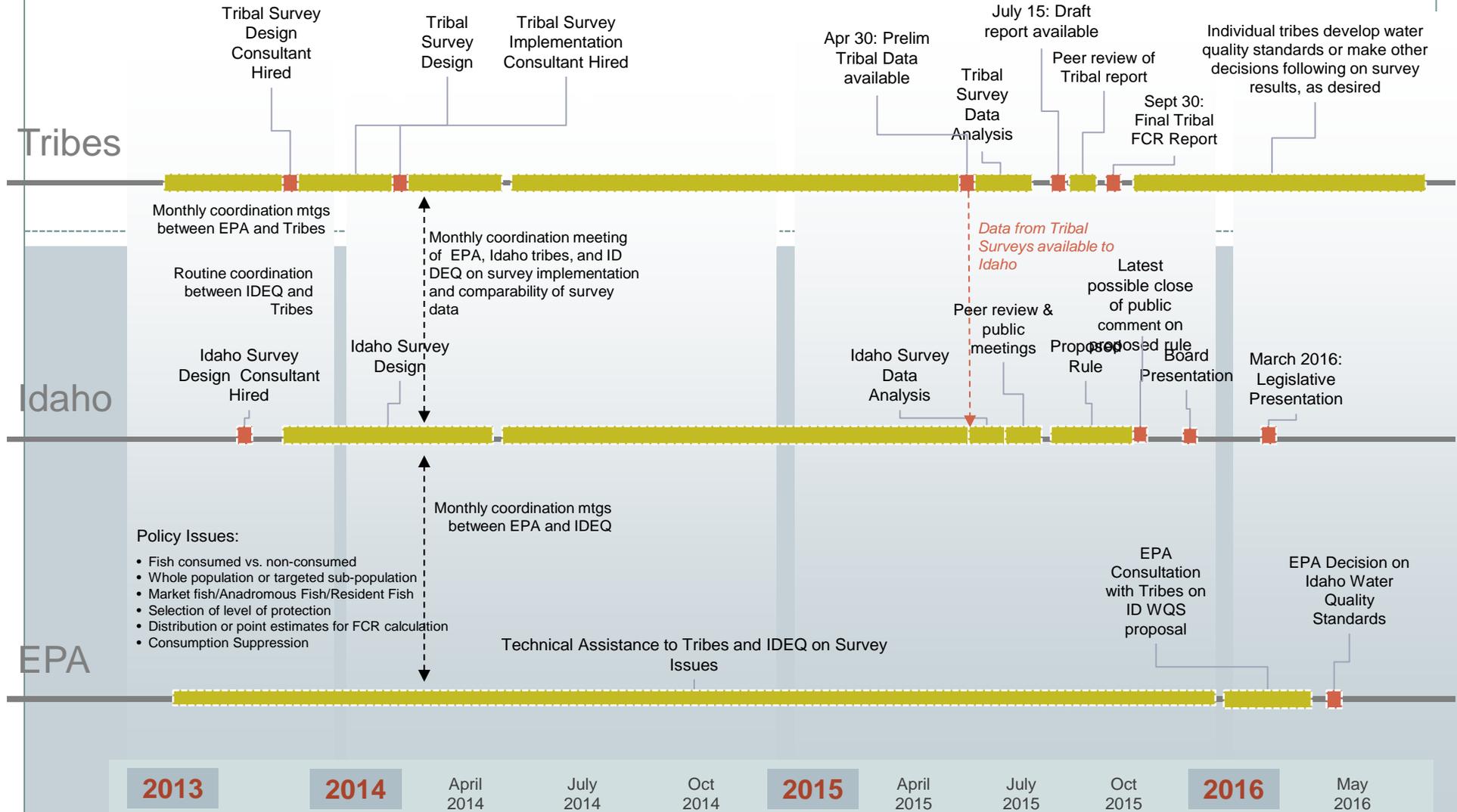
## *Idaho DEQ Schedule*

*May 2015 – ID peer review begins*

*8/4/15 – ID Bulletin publication of proposed rule*

*10/4/15 – Close of ID public comment period (based on 60 day period; the comment period will be at least 30 days so the period may end before 10/4/15)*

# Timeline for Idaho Tribal Fish Consumption Work Effort



# Next Steps

16

- **Continue collaboration with Tribal Govts/Tribal Consortia /ID DEQ/EPA to coordinate work efforts**
- **Conclude in-person fish consumption survey interviews with Nez Perce and Shoshone-Bannock tribal members**
- **Work with Tribal Governments on finalizing Heritage Studies**
- **Share FFQ survey results with ID DEQ on April 30<sup>th</sup>**
- **Peer Review of FFQ and NCI results**
- **Share Peer-Reviewed results with ID DEQ on Sept 18th**