

# Update

## Tribal Governments in Idaho Fish Consumption Surveys

1

### IDAHO NEGOTIATED RULEMAKING MEETING, APRIL 21, 2015

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# Quantifying Current Fish Consumption

2

## Two Approaches Embodied in Survey Effort:

- Food Frequency Questionnaire: Individuals estimate their fish consumption over a calendar year.
- 24 Hour Recall:
  - Individuals provide information on their fish consumption over the past 24 hours.
  - 24 hour recall data is analyzed using the National Cancer Institute methodology to develop long term fish consumption rates.

# Current Results as of 4/17/15

3

Tribe	# of FFQs	# of Individuals with Two 24-Hour Recall Interviews
Nez Perce	445	387
Shoshone Bannock	212	183
<b>Total:</b>	<b>657</b>	<b>570</b>

- Survey effort has attained the projected number of individuals with two 24 hour recall interviews recording fish consumption needed to conduct NCI analysis.
- Sufficient number of FFQ results to conduct robust analysis attained.

# Modification of Interview Approaches

4

- **Issues**

- Tribal enrollment records not complete, considerable effort required to locate individuals.
- Travel to homes of individuals time consuming.
- Many individuals not immediately receptive to be interviewed.
- Interviewing challenging for part time staff.

- **Solutions**

- Interviews conducted at central locations.
- Interviews conducted at special events.
- Nez Perce granted tribal employees (from sample list) time to participate in interviews.
- Non-tribal interviewers from EPA and Columbia River Intertribal Fish Commission granted permission to interview tribal employees

# Process Used for EPA/CRITFC Interviews

5

- All day training conducted in December
- EPA/CRITFC interviews in Lapwai: Dec. 15-19 2014; March 16-20 and April 1-3 2015
- EPA/CRITFC staff conduct follow up interviews
- Tribal and non-tribal interview methodology identical
- Results of tribal and non-tribal interviewers will be compared.

# Tribal Heritage Rate Studies

6

- Heritage rate studies will be completed for four 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 Governments 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: Content

7

- **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

8

- Peer review will be done for FFQ and NCI survey results
- EPA Office of Water Peer Review contract
- 4 peer reviewers maximum
- Expecting peer reviewers to have several areas of needed expertise
- Letter peer review
- Summer of 2015
- Peer reviewed results will be provided to ID DEQ by September 18<sup>th</sup> as a part of public comment

# Expertise Required by Peer Reviewers: Statistics (DRAFT)

9

- **Familiarity with data analysis of nutritional surveys.**
- **Stratification**
- **Weighting**
- **Characterizing Variance**
- **Analysis of Food Frequency Questionnaire data**
- **Analysis using NCI method**

## Expertise Required by Peer Reviewers, Continued (DRAFT)

10

- **Nutritional survey implementation and use of computer assisted personal interview software.**
- **Understanding of the history of resource utilization by Native American Tribes.**
- **Expertise with Idaho Tribes and fisheries resources is desired.**
- **Absence of conflict of interest**

# Submittal of Candidate Peer Reviewers

11

- Melody Poland, EPA Oregon Operations Office
- Submit names to: [XXXXXX@epa.gov](mailto:XXXXXX@epa.gov)
- Peer review contractor will contact peer review candidates for evaluation.

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12

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# Tribal Schedule (12 months of data collection)

13

5/12/15 – 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)

**Questions?**