Update
Tribal Governments in Idaho
Fish Consumption Surveys

IDAHO NEGOTIATED RULEMAKING
MEETING, APRIL 21, 2015

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Quantifying Current Fish Consumption

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

<table>
<thead>
<tr>
<th>Tribe</th>
<th># of FFQs</th>
<th># of Individuals with Two 24-Hour Recall Interviews</th>
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</thead>
<tbody>
<tr>
<td>Nez Perce</td>
<td>445</td>
<td>387</td>
</tr>
<tr>
<td>Shoshone Bannock</td>
<td>212</td>
<td>183</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>657</strong></td>
<td><strong>570</strong></td>
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- 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

• 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

- 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.
• 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

- 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 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 18th as a part of public comment
• 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)

- 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

- Melody Poland, EPA Oregon Operations Office
- Submit names to: XXXXX@epa.gov
- Peer review contractor will contact peer review candidates for evaluation.
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Tribal Schedule (12 months of data collection)

4/21/2015

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?