TODAY’S MEETING

• Purpose – Identify sources of fish that should be included in calculation of fish consumption rate.

• Outline
  • Discuss principles for risk management decisions
  • Discuss objectives of criteria based on fish consumption
  • Discuss BAF and RSC impacts on WQC
RISK ANALYSIS

• Assessment
  • Identify and characterize the hazard
  • Assess exposure
  • Characterize the risk

• Management
  • Weigh policy alternatives
  • Select appropriate prevention & control options

• Communication
PRINCIPLES FOR RISK MANAGEMENT DECISIONS

- Transparency
- Consistency
- Context
- Communication
- Summary
HUMAN HEALTH CRITERIA

OBJECTIVES

• Designed to protect human health from exposure to chemicals over a lifetime.
  • Cancer effects - non-threshold
  • Non-cancer effects
    • Threshold phenomenon - Increasing exposure (dose) of a chemical will cross a threshold when biological effects start to occur
    • The dose is the total dose attributable to all routes of exposure
  • Organoleptic effects
• Control sources of contaminants
SOURCE OF FISH

• Market
  • All sources of fish included
  • More ever-fish consumers

• Local
  • Only fish from Idaho waters
  • Fewer ever-fish consumers
Diagram is a visual aid only, no relations between sources or routes of exposure is meant to be quantitatively described.
COMPARISON

**Market**
- More protective of overall consumption of fish
- Accounts for exposure from multiple sources of fish
- More likely to achieve repeat consumers needed to calculate variability
- Potentially lower water quality criteria

**Local**
- Protective of consumption of local fish
- Ability to regulate sources
- Uncertain overall protection due to other routes of exposure
**BIOACCUMULATION FACTOR**

- Term accounting for exposure from fish
- Specific to chemical
- Determined via experimental study or modeled
- Increased BAF means more chemical in fish tissue
- WQC decrease with increasing BAF
RELATIVE SOURCE CONTRIBUTION

- Term used in non-cancer effects calculation
- Apportions sources – water + fish vs. other
- Increased RSC means increased WQC
- 0.20 is recommended (no greater than 0.80)
COMMENTS ACCEPTED THROUGH JUNE 25