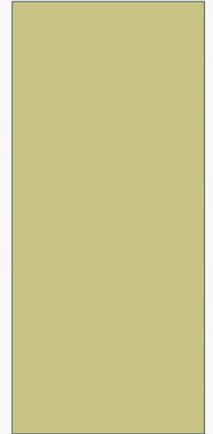




POLICY DISCUSSION #4

MARKET (ALL) VS. LOCAL FISH



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

Relative amount of exposure to chemical X

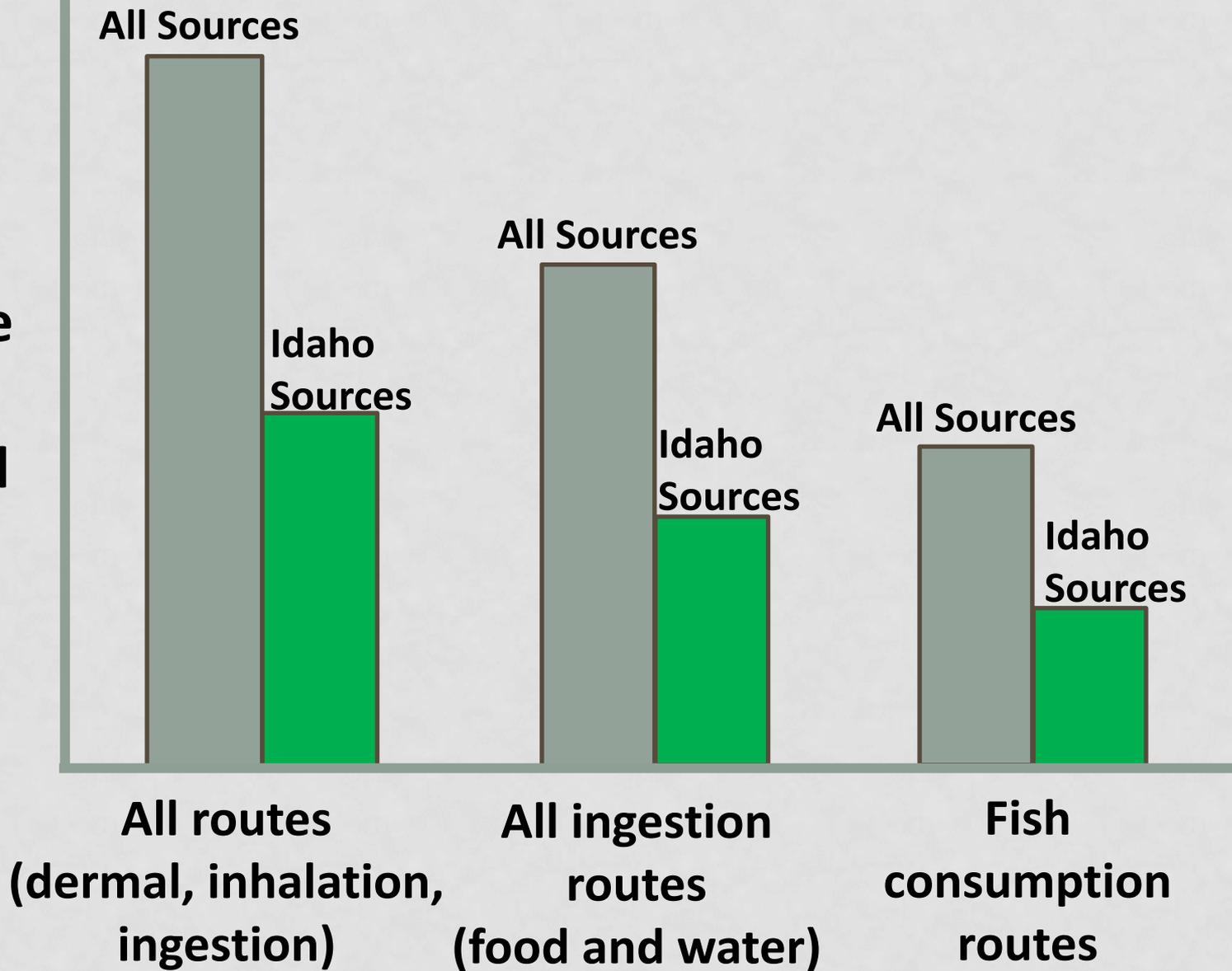


Diagram is a visual aid only, no relations between sources or routes of exposure is meant to be quantitatively described.

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