Evaluating the Effects of Salmon Fisheries on Southern Resident Killer Whales

Introduction to the 3rd Workshop

Sept 18-20, 2012

Renaissance Seattle Hotel,
515 Madison Street, Seattle WA

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Outline

- Where we are in workshop process
- Objectives & agenda for workshop 3
- Principles, procedures, roles

http://www.kunamokstmural.com/

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Process

June 2011:
Select Science Panel (SP) and participants

Aug. 2011:
NOAA/DFO analyses

Workshop 1: Sept 21-23, 2011 (Seattle)

Oct 2011 - Mar 2012
Participant comments
SP suggests analyses
Participants identify & do analyses

By March 7, 2012:
NOAA, DFO, others complete / post additional analyses, metrics

Workshop 2: March 13-15, 2012 (Vanc)
SP & participants review new analyses
SP starts draft report

April 30, 2012: SP produces first draft
June 15, 2012: deadline for public comments on draft SP report

By Aug. 15, 2012:
- NOAA/DFO comments on SP Draft, analyzes fishing scenarios
- Public comments compiled/categorized

Workshop 3: Sept 18-20, 2012 (Seattle)
- Review comments on SP Draft, fishing scenarios analyses
- Identify gaps, new evidence

Process after W3

By Nov. 30, 2012, Science Panel produces its Final Report

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By Jan. 31, 2013, NOAA finalizes Alt. Fishing Regimes report.

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By Mar. 31, 2013 NOAA initiates or reinitiates ESA fishery consultations if necessary

OBJECTIVES (see agenda for details)

1. Summarize highest priority agency comments (Tues am)
   - Existing evidence not mentioned in report
   - Inappropriate weighting or assessment of existing evidence
   - New evidence
2. Present / discuss ***syntheses*** of evidence on themes discussed in Panel report & comments (Tues, Wed am)
   - Status & Growth rates of SRKW (Tues)
   - Feeding Habits and Energetic Needs of SRKW (Tues)
   - Fisheries and Prey Availability (Wed)
   - Projected Future Status and Recovery of SRKW (Wed)
   - Causation vs. Correlation (Wed)
3. Present / discuss NOAA/DFO analyses of fishing scenarios (Wed); next steps (Thurs am).
4. Science Panel & Facilitator meet to synthesize ideas and begin writing their final report (Thurs).

What the workshop IS and ISN’T

- It is meant to provide:
  - rigorous examination of Panel report & evidence relevant to key questions
  - collaborative discussions of future steps to reduce uncertainties

- It is not meant to address:
  - policy implications of scientific findings
  - recommended management actions
  - management agreements

PRINCIPLES

- Be hard on the problem, easy on the people
- Succinctly summarize evidence pro & con
- Be explicit about assumptions & uncertainties
- Be open to alternative approaches
- Respect agenda time lines
- Speak as concisely as possible during discussion

QUESTIONS & DISCUSSION

- **Questions and Discussion**
  - After presentations and/or after set of presentations
  - Science Panel priority for first half
  - Discussion open to all participants for second half
- **Discussion of Next Steps on Day 3**

ROLES

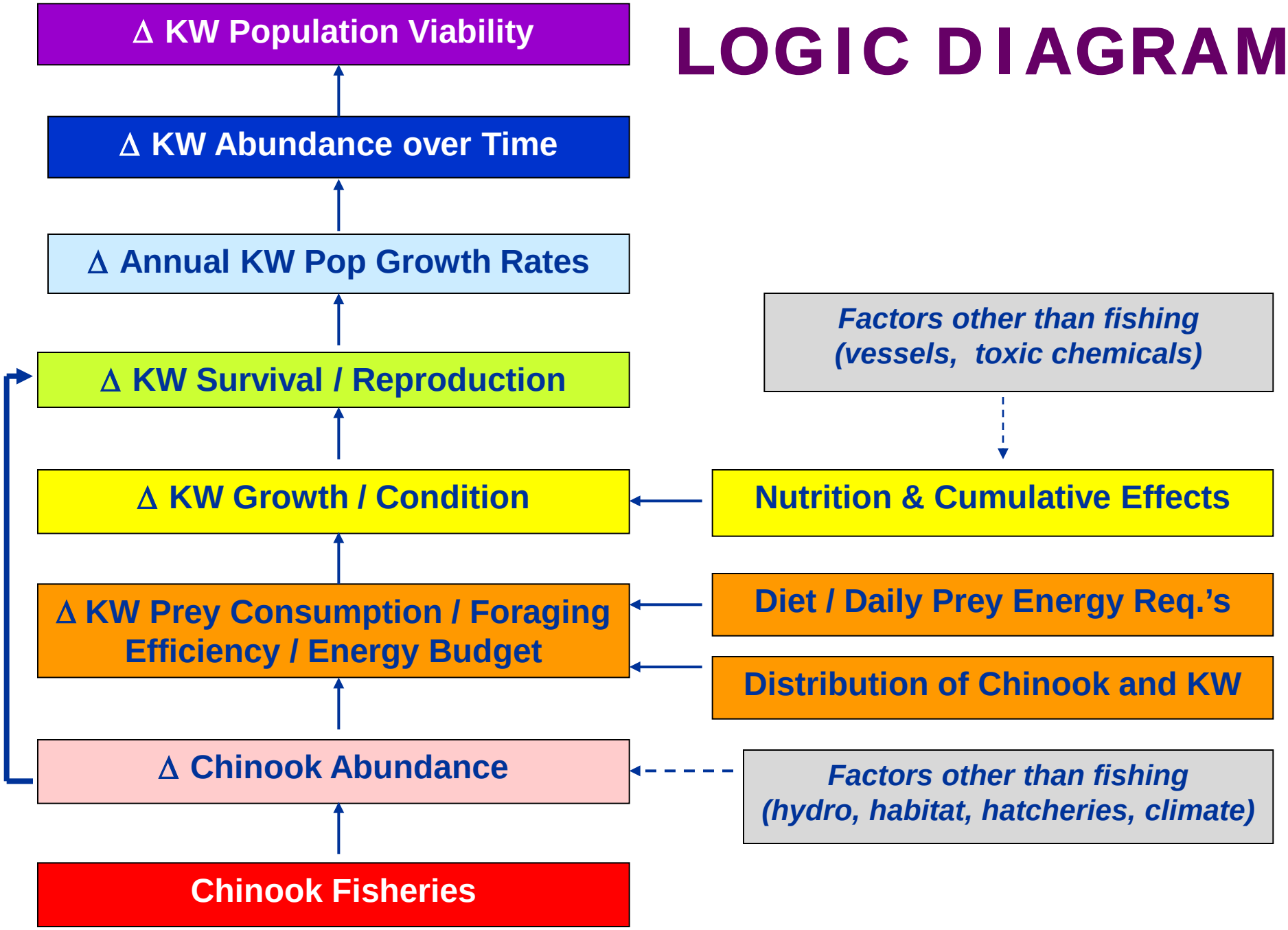
- **Facilitators**
  - Keep group focused on agenda topics and on schedule
  - Facilitate and track discussion
  - Facilitate report-writing with Science Panel

- **Presenters**
  - Present your findings to the group
  - Respect timelines

- **Science Panel**
  - Provide constructive feedback; probe evidence/analyses
  - Suggest other analyses, future steps
  - Collaboratively review & synthesize research presented

- **Participants**
  - Provide constructive feedback in discussion
  - Provide written feedback if desired

LOGIC DIAGRAM



W3 Panel Discussion

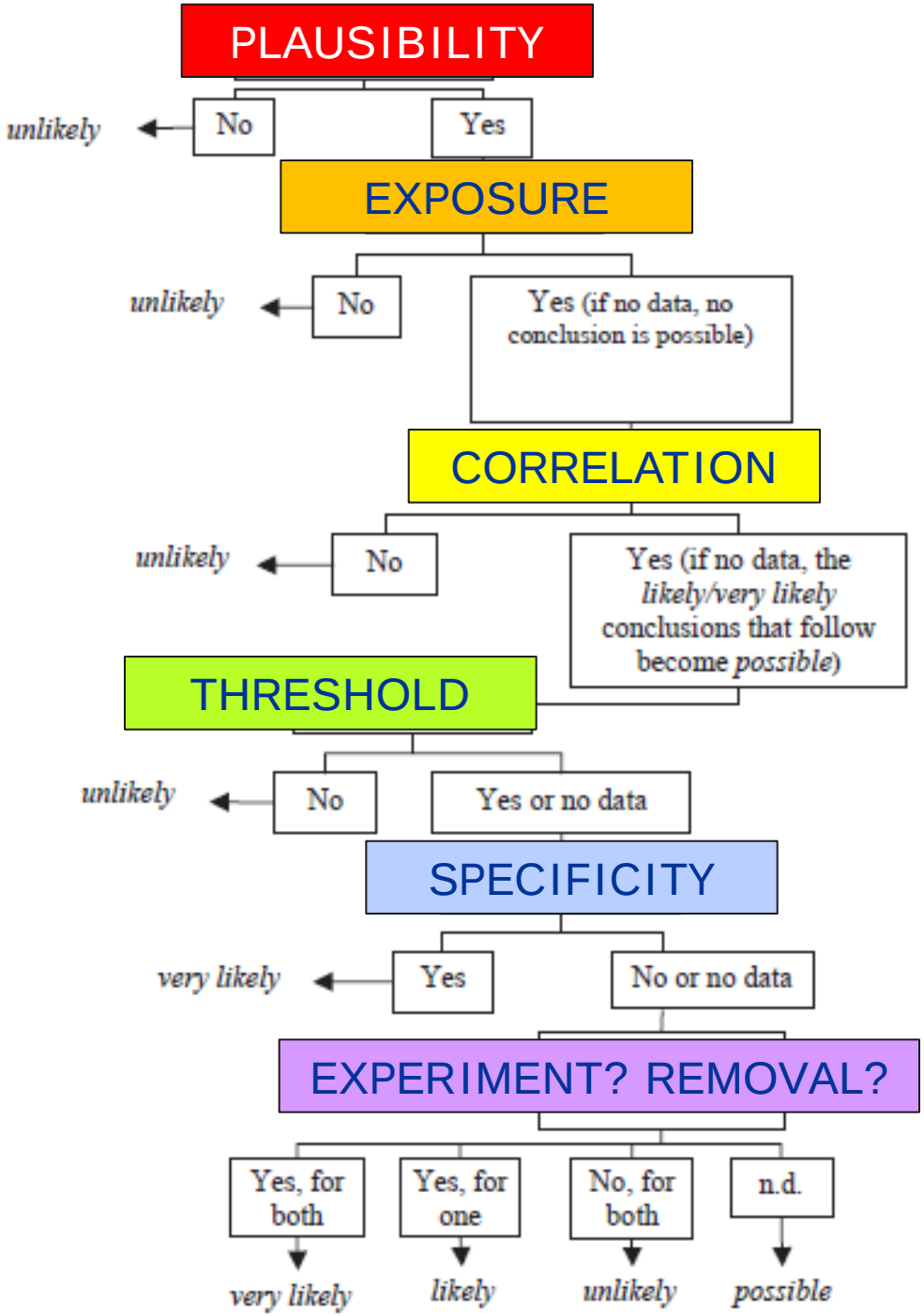
Q1. What's strength of evidence that changes in Chinook abundance **cause or do not cause** changes in SRKW vital rates (i.e., survival, reproduction and population growth rates)? **[5 min each]**

Q2. What's strength of evidence that changes in fisheries in the future **would cause or would not cause** changes in Chinook salmon abundance sufficient to affect SRKW vital rates? **[5 min each]**

Q3. For Q1 and Q2, what are: **[2 min each]**

- most critical data needs, analyses to reduce key uncertainties affecting management decisions?
- types of evidence to alter / strengthen conclusions?

Q1. Things to consider.

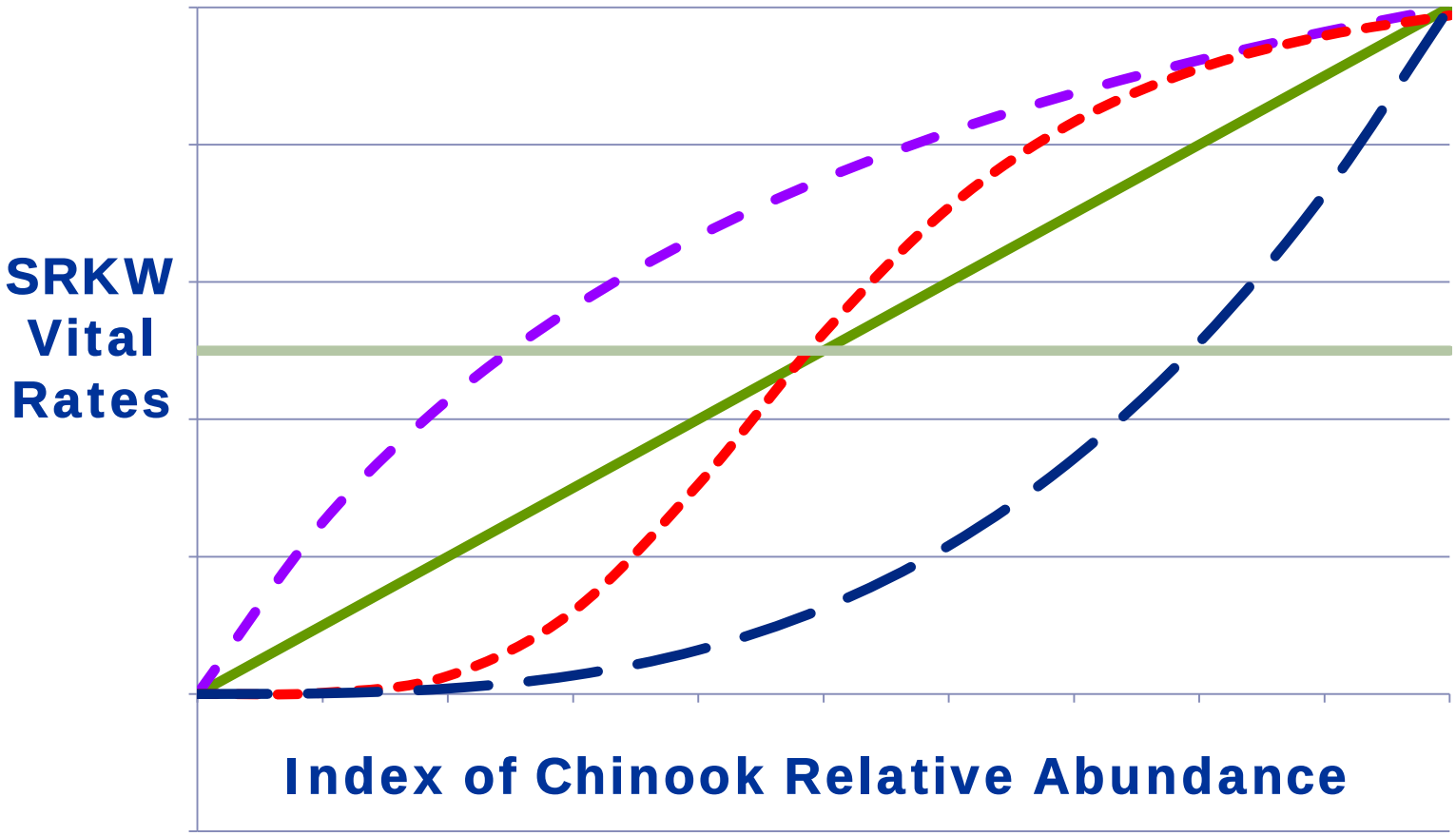


Burkhardt-Holm, P. and K. Scheurer. 2007.

Application of weight of evidence approach to assess decline of brown trout. Aquatic Sciences. 69: 51-70.

Q2. Things to consider

a. expected changes in Chinook abundance w changes in harvest
b. form of relationship between abundance and SRKW vital rates.



c. effects of pinnepeds and other competitors on SRKW response