Evaluating the Effects of Salmon Fisheries on Southern Resident Killer Whales

Introduction to the 1st Workshop

September 21-23, 2011

Crown Plaza Hotel
1113 Sixth Avenue
Seattle, Washington

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OBJECTIVES (see agenda for details)

1. Establish and discuss factual content regarding Southern Resident Killer Whales:
   - Threats, feeding habits, relationship between salmon abundance and KW population dynamics
2. Present and discuss analyses done to date:
   - agency analysis of KW food requirements
   - NOAA's analysis of effects of fishing plans on KWs
   - other pertinent scientific analyses to date
3. Identify and discuss key assumptions and uncertainties:
   - Explore potential to reduce uncertainties (additional info, alternative methods)
   - Short-term approaches and long-term research
4. Identify and assign specific follow-up tasks to complete in preparation for Workshop 2

What the workshop IS and ISN’T

- It is meant to provide:
  - rigorous examination of:
    - scientific research foundation (i.e., factual context)
    - strengths and weaknesses of various analyses conducted to date
  - collaborative discussions of future steps

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

AGENDA OVERVIEW (Day 1)

Day 1:

8:10–8:50 am: Introduction & Overview
8:50–10:00 am: Setting the Context
10:20–2:00 pm: Killer Whale Feeding Habits
12:10–1:10 pm: LUNCH
2:00–5:10 pm: Status &Trends of Prey & Predator Populations

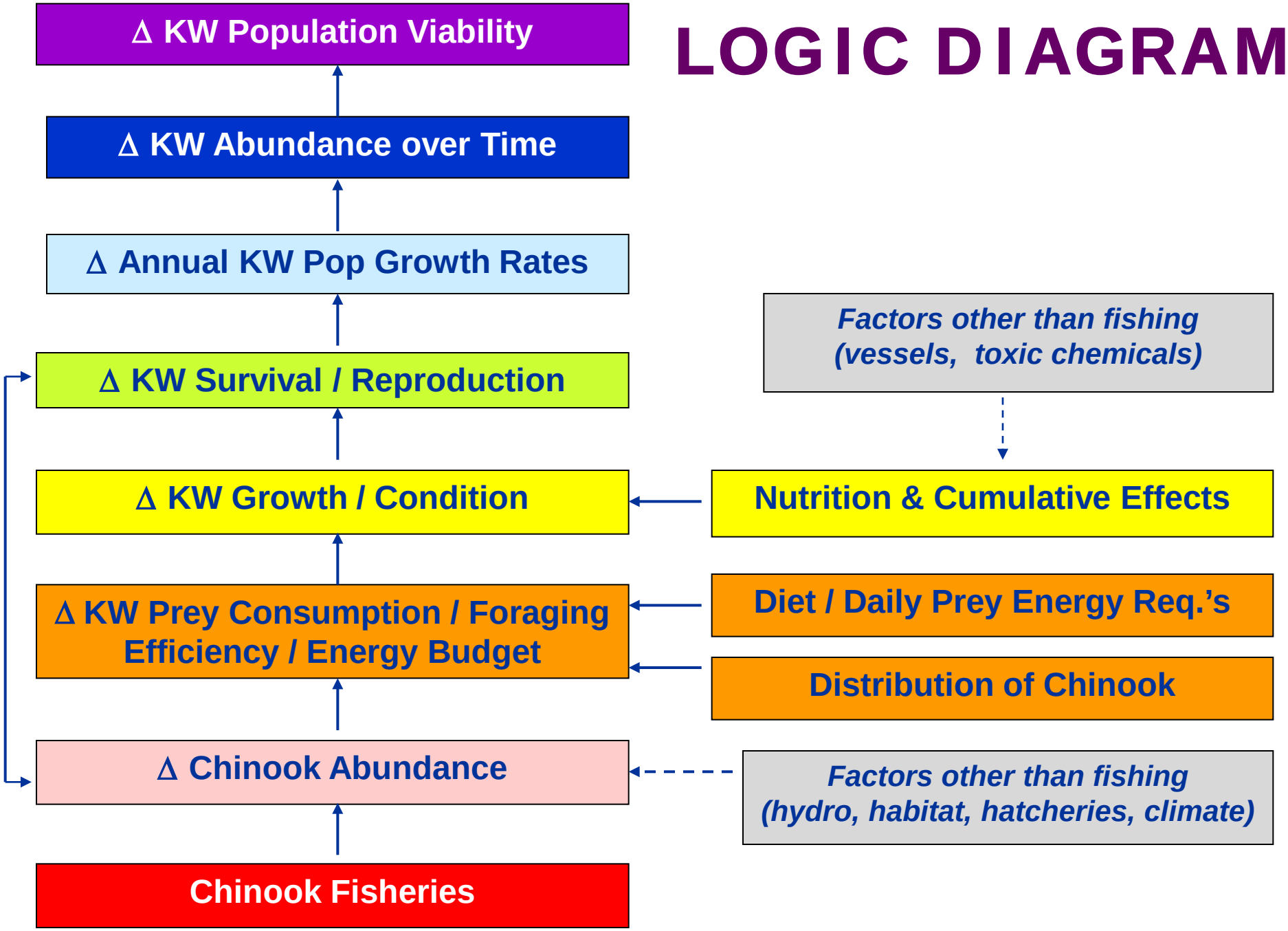
Day 2:

Relationship between Chinook Abundance and Killer Whale Population Dynamics
Indicators of Nutritional Status and Stress
Agency Analyses

Day 3:

Agency Analyses (cont'd)
Science Panel

LOGIC DIAGRAM



PRINCIPLES

- Be hard on the problem, easy on the people
- First understand the pattern, then explore analyses of potential factors / causes
- Justify comments based on evidence
- Be explicit about assumptions & uncertainties
- Be open to alternative approaches
- Respect the tight time lines
- State ideas concisely

QUESTIONS & DISCUSSION

- **Quick Questions**
  - A few minutes after each presentation
  - Short, clarifying questions (Science Panel goes first)
  - Small, technical issues

- **Discussion Periods**
  - 15-45 minutes after a set of presentations
  - Science Panel priority for first half
  - Discussion open to all participants for second half

- **Forms for Comments & Feedback**
  - Structured form to submit comments
  - Address additional issues or provide more details
  - Provide information to Science Panel and follow-up workshops

- **Additional Discussion on Day 3**
  - Additional topics, time permitting

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 as necessary

Any questions?

Photo Credit:
Astrid Van Ginneken,
Center for Whale Research

AGENDA OVERVIEW (Day 2)

Day 1:

Introduction & Overview
Setting the Context
Killer Whale Feeding Habits
Status & Trends of Prey & Predator Populations

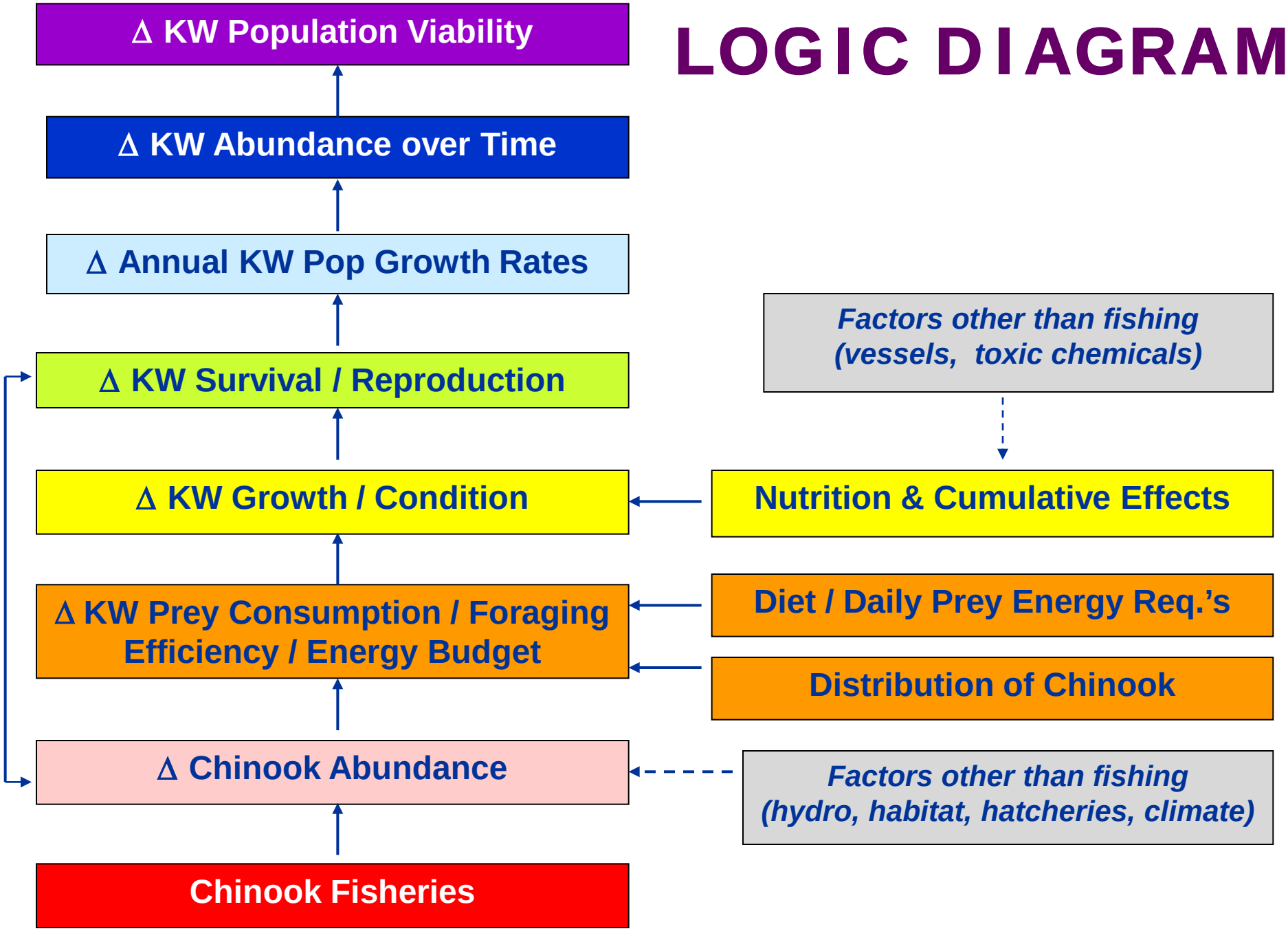
Day 2:

8:10–8:40 am: Overview and Prey & Predators Pops (cont'd)
8:40–10:35 am: Relationship between Chinook Abundance and Killer Whale Population Dynamics
10:35–2:05 pm: Indicators of Nutritional Status and Stress
12:00–1:00 pm: LUNCH
2:05–5:00 pm: Agency Analyses

Day 3:

Agency Analyses (cont'd)
Science Panel

LOGIC DIAGRAM



Effects of Assumptions

Assumptions leading to an overestimate of impact on KW	Assumptions leading to an underestimate of impact on KW

AGENDA OVERVIEW (Day 3)

Day 1:

Introduction & Overview
Setting the Context
Killer Whale Feeding Habits
Status & Trends of Prey & Predator Populations

Day 2:

Relationship between Chinook Abundance and Killer Whale Population Dynamics
Indicators of Nutritional Status and Stress
Agency Analyses

Day 3:

8:10–10:00 am: Agency Analyses (cont'd)
10:00 am – 12:00 pm Flex Session
12:00–1:00 pm: LUNCH
1:00–5:00 pm: Science Panel