Technical Exercise to Integrate Hatcheries with Subbasins and the Development of Provincial Objectives

CBFWA

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Northwest Power Planning Council

Background

- Council is testing the feasibility of conducting a technical exercise that would improve the integration of hatcheries with subbasin plans.
- Tested in workshops in the Kalama and Yakima subbasins.
- Paper exercise complete for Wenatchee, Entiat, Methow and Okanogan subbasins– results rolled-up to Columbia Cascade province
- Technical exercise can help inform a broader policy discussion on provincial and basin objectives.

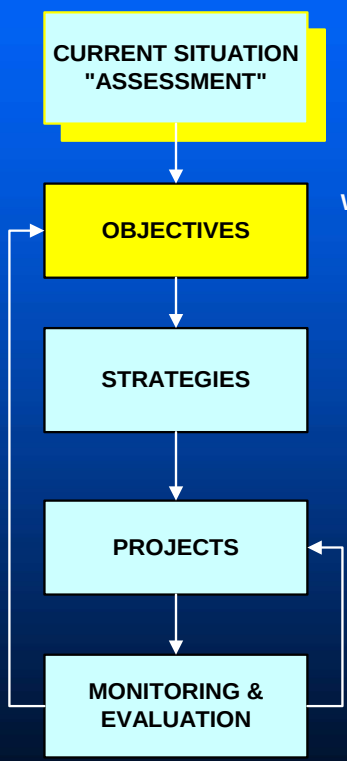
Project Benefits

- Assists development of provincial objectives called for in F&W Program
- Better alignment of hatcheries with habitat
- Help guide hatchery reform
- Integration of production across 4 H's
- Quantifiable objectives and benchmarks assist development of better M&E program
- Promotes consistency across the basin and a common currency for evaluation
- Can assist state and federal recovery planning

Two Step Process to Develop Provincial Objectives

- Step One: Technical exercise
- Step Two: Policy planning, decision making process

Strategic Planning (Council's F&W Program Framework)



Where are we today?
TECHNICAL EXERCISE

Where do we want to go?
POLICY PLANNING PROCESS

How do we get there?

How well are we doing?

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Assess current situation: Where are we today?

Technical exercise will:

- Integrate 4H assessment work and produce results in a "common currency"- numbers of adults.
- Examine how many and what type of fish can be produced under existing conditions and programs.
- Look at how many fish and what type can be produced after implementing proposed actions and strategies.

Step One: Proposed Technical Integration Process

HABITAT ASSESSMENTS: Subbasin Plans

HATCHERIES: APRE/HGMP Database

HARVEST RATES: Harvest Mgt. Plans

HYDRO SURVIVAL: Biological Opinion

TECHNICAL INTEGRATION PROCESS (AHA) for each stock in subbasin. Roll-up to province and basin

 # ADULTS returning to the spawning grounds

 # ADULTS harvested

CURRENT

USING EXISTING STRATEGIES

 # ADULTS returning to the spawning grounds

 # ADULTS harvested

LONG-TERM

WHAT CAN BE DONE WITH HABITAT WORK, HATCHERY IMPROVEMENT AND SELECTIVE HARVEST

Step Two: Proposed Policy Review and Program Amendment Process

NUMBER OF ADULTS

Strawman
LONG TERM RESULTS (de facto objectives) from technical exercise

↓

AMENDMENT PROCESS
Call for Recommendations

↓

REGIONAL INPUT

↓

Adoption of objectives into Fish and Wildlife Program

Example: Columbia Cascade Province

- Paper exercise using existing information from various sources
- Used “All-H-Analyzer” (AHA) model
- Chinook and steelhead stocks only
- Wenatchee, Entiat, Methow and Okanogan subbasins
- Caveat: For demonstration purposes only. Inputs and assumptions not reviewed.

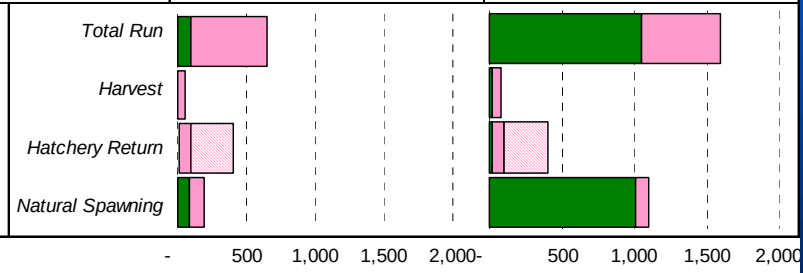
All-H-Analyzer (AHA) Model Inputs

- Habitat: current and future productivity and capacity values from subbasin plans
- Hatchery: data, strategies and goals collected from APRE/HGMP process
- Harvest: current harvest rates from management plans.
- Hydrosystem: survival rates from hydro Bi-Op.

For each fish stock in each subbasin

- Examined current goals and strategies
- Examined long-term goals and strategies
- Used the model to determine how many adults could be hatchery and naturally produced near-term and long-term
- Rolled results up to the provincial level

Wenatchee Summer Steelhead

Wenatchee Summer Steelhead--TOTAL	Current	Long Term
Goal	Provide harvest	Rebuild natural production Provide harvest
Strategy	Segregated hatchery program Selective harvest	Habitat restoration and protection Integrated hatchery program Selective harvest
Measurable Objectives		

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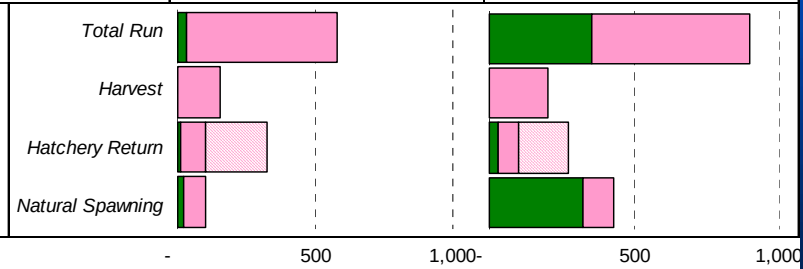
Okanogan Summer Steelhead (L. Similkameen) - Integrated

Okanogan Summer Steelhead (L. Similkameen)- Integrated	Current	Long Term
Goal	Provide harvest	Rebuild natural production Provide harvest
Strategy	Integrated hatchery program Selective harvest	Habitat restoration and protection Integrated hatchery program Selective harvest
Measurable Objectives		

Entiat Subbasin

Methow Subbasin

Okanogan Subbasin

Wenatchee Subbasin

Cascade Province

Next steps

- Continue to discuss ideas with people to ensure coordination of effort
- Address ISRP/ISAB recommendations
- Possibly conduct a work session in Columbia Cascade to review paper exercise.
- Improve tools and database to meet Council's and regional needs
- Develop a work plan and budget for Council consideration in March.

Cascade Province Summer Steelhead

Cascade Province Summer Steelhead--TOTAL	Current	Long Term
Goal	Provide harvest	Rebuild natural production Provide harvest
Strategy	Segregated hatchery programs	Habitat restoration and protection Integrated hatchery program Selective harvest
Measurable Objectives