

BiOp Expert Panel Briefing

August 31, 2011
 10:30 AM – 12:30 PM
 NPCC - Small Conference Room

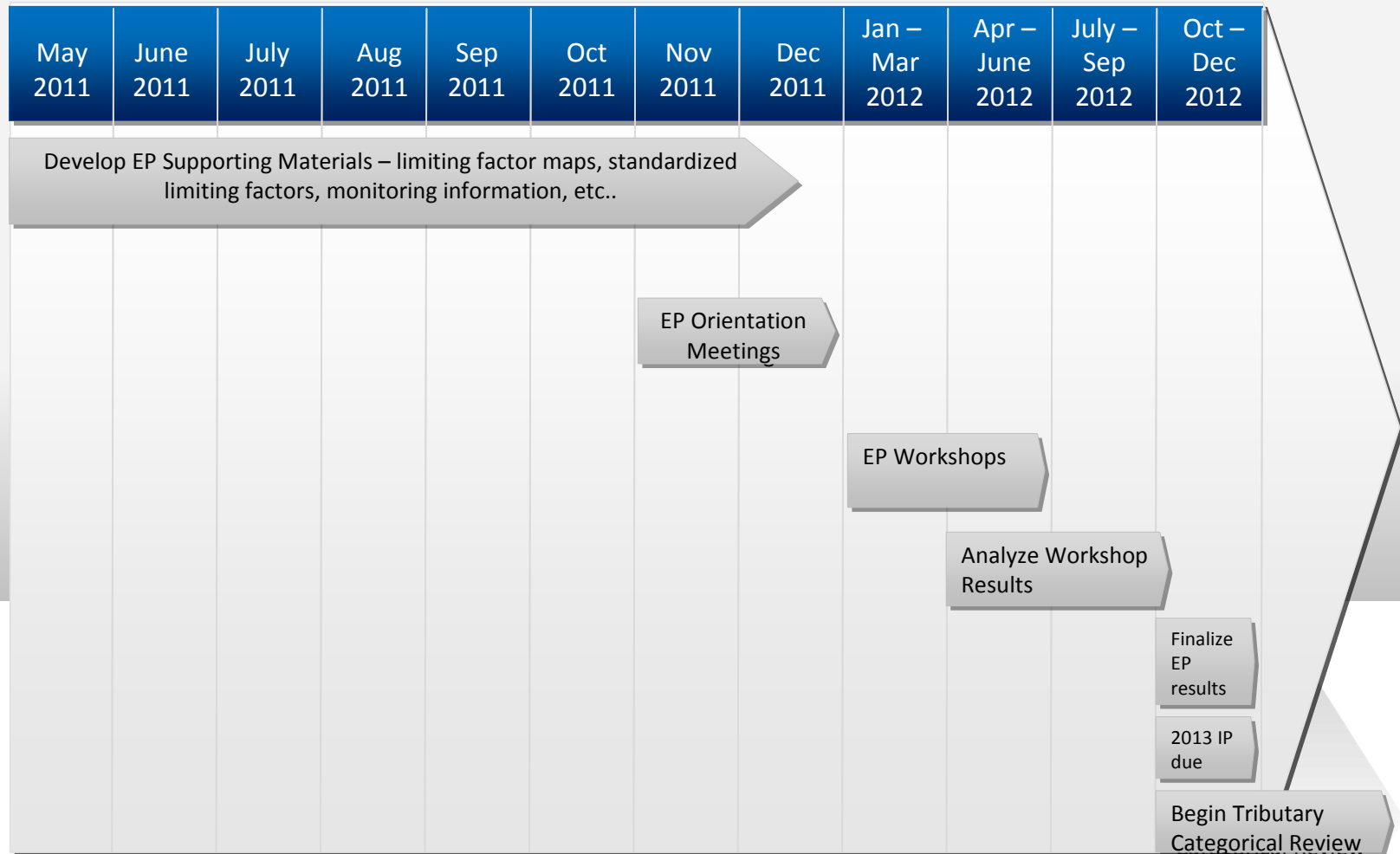
Agenda topics

Introduction	Kathy	5 min
Expert Panel Workshop Overview <ul style="list-style-type: none"> • RPA 35 Requirements & Habitat Collaboration Workgroup Methodology • Pre-mtgs/ Orientations/Workshops • Schedule/locations 	Kathy/Joe	30
USBR Limiting Factor Maps	Joe/Vince	45
Categorical/Geographic Review	Council/BPA	30
Next Steps/Followup	All	10

2008 FCRPS BiOp Requirements

- RPA Action 35 of the BiOp requires the Action Agencies to:
 - Convene an expert panel to evaluate the percent change in overall habitat quality at the population scale from projects implemented previously and projects proposed for implementation.
 - Use methods consistent with the Remand Collaboration Habitat Workgroup process to estimate changes in habitat quality.

2011 - 2012 Expert Panel Workshop Schedule



Area	Pre-Meetings	Orientation	Workshops
Upper Columbia Coordinate through UC Salmon Recovery Board	Wenatchee August 9	January 2012	April 2012
Lower Snake (Tucannon) Coordinate through Snake River Salmon Recovery Board	Dayton October 4	November 1, 2011	January-April 2012
Upper Salmon Coordinate through Idaho Office of Species Conservation & SWCD	Salmon, ID September 27/28	November - December 2011	January-April 2012
Lower/MF Salmon Coordinate through Idaho OSC, NPT, & USFS	McCall, ID (tentative) Mid-October	November - December 2011	January-April 2012
Grande Ronde/Imnaha Coordinate through Grande Ronde Model Watershed	LaGrande October 5	November - December 2011	January-April 2012
Clearwater Coordinate through Idaho OSC, NPT, USFS	Lewiston (tentative) Mid-October	November - December 2011	January-April 2012

Habitat Quality Improvement Estimates

- Initial estimates of habitat quality improvements considered under the BiOp were developed during the BiOp Remand Collaboration.
- Accord parties also estimated habitat quality improvements to be achieved by 2018 through Accord project implementation.
- The Action Agencies convened expert panels in 2009 and are scheduled to convene again in 2012.

Habitat Collaboration Workgroup Process

For each priority population:

- Estimate the “current” status of habitat limiting factors in an assessment unit/watershed
- Identify specific habitat actions that will directly or indirectly address the habitat limiting factor
- Estimate the “potential” status of habitat limiting factors as a percent of optimal condition that should result if the habitat action is implemented

HCW methodology involves:

- Local Expert Panels who "*look back*" to validate or revise actual status of planned habitat actions and associated changes in habitat limiting factors identified for the last implementation cycle, and "*look forward*" to identify planned habitat improvement actions and associated changes in habitat limiting factors for the next implementation cycle.
- Action Agencies who combine changes in habitat limiting factors into a single local habitat condition value, combine local habitat condition values into a single overall habitat condition value for the population, and translate overall habitat condition change into population survival change.

Estimate of Habitat Quality Improvement

- Calculated survival changes are compared to the FCRPS BiOp RPA 35 Table 5 targets and may prompt revised levels of effort for some populations.

Example Products

- FCRPS BiOp RPA 35 Table 5 Habitat Quality Improvement Targets
- 2010 – 2012 Planned Actions Table
- Estimated % Change of Limiting Factors
- Estimated % Change in Habitat Quality at the Population Level

FCRPS BiOp RPA 35 Table 5 Habitat Quality Improvement Targets

ESA Listed ESU	Major Population Group	Population	Estimated % Habitat Quality Improvement of 2007-2009 Actions	Total Estimated % Habitat Quality Improvement of 2007-2018 Actions
Upper Columbia steelhead	Upper Columbia River – below Chief Joseph	Entiat River	6	8
		Methow	2	4
		Okanogan	12	14
		Wenatchee	1	4

2010 – 2012 Planned Actions Table

Upper Columbia River Steelhead and Spring Chinook - Entiat River

Assessment Unit (AU)	Primary Limiting Factor(s) (PLF) by AU	Actions	2010	2010	2011	2011	2012	2012	Comments
			Metric	Planned Value	Metric	Planned Value	Metric	Planned Value	
Lower Entiat	Low Stream flow	Continue Knapp-Wham and Hanan Detwiler irrigation ditch consolidation effort							
Lower Entiat		Continue exploring extension of Entiat Irrigation District line upstream to serve PUD canal/system users							
Lower Entiat		Pursue other water conveyance efficiency and diversion improvements	cubic feet/second restored to stream	2 cfs (McKenzie); USBR stimulus well conversions ~ 2 cfs; Roaring Cr. Well conversion ~ 1.5 cfs; BOR					Surface water effect, savings will be somewhat less.
Lower Entiat		Improve on-farm irrigation application efficiency, scheduling, and general water conservation.		2 cfs (McKenzie); USBR stimulus well conversions ~ 2 cfs; Roaring Cr. Well conversion ~ 1.5 cfs; BOR					Surface water effect, savings will be somewhat less.
Lower Entiat		Provide technical and cost-share assistance for water metering and reporting							
Lower Entiat		Continue conversion of surface water diversions to ground water/well withdrawals, when feasible	cubic feet/second restored to stream	1 cfs (surface to wells)					
Lower Entiat	Riparian condition	Implement riparian planting projects with willing landowners							
Lower Entiat		Work with willing landowners to protect larger, undisturbed riparian areas by first pursuing conservation easement, lease, and options other than outright property acquisition							
Lower Entiat	Floodplain connectivity	Implement Ecosystem Diagnosis and Treatment (EDT) Alternative 5 related to side-channel options	miles of river restored	0.2 miles (Foreman)	miles of river restored	0.3 miles (hatchery)			
Lower Entiat	Habitat diversity	Implement EDT Alternative 5, focusing on pool forming structures	miles of river treated	0.2 miles (lower screw trap); 0.2 miles (Foreman); 0.3 miles (B2B Phase 3)	miles of river restored	0.3 miles (4 mile bridge); 0.3 miles (hatchery); 0.3 miles (LBS); 0.3 miles (Keystone)			
Lower Entiat	Habitat quantity	Implement EDT Alternative 5, focusing on pool forming structures	miles of river restored	0.2 miles (lower screw trap); 0.2 miles (Foreman); 0.3 miles (B2B Phase 3)	miles of river restored	0.3 miles (4 mile bridge); 0.3 miles (hatchery); 0.3 miles (LBS); 0.3 miles (Keystone)			

Estimated % Change of Limiting Factors from Implementation of 2010-2012 Actions

Steelhead - Entiat River

Assessment Unit	Limiting Factor	2010-2012 VALUES					
		Starting Low Bookend	10-12 Estimates		Updated High Bookends		Updated LF Weight
			2018	2033	2018	2033	
Lower Entiat	Excessive Fine Sediment	23	24	24	30	30	10
Lower Entiat	Floodplain connectivity	20	21	21	21	21	6
Lower Entiat	Habitat diversity	15	19	19	41	41	20
Lower Entiat	Habitat quantity	15	19	19	41	41	35
Lower Entiat	Low Stream flow	80	85	85	87	87	2
Lower Entiat	Obstructions/entrainment ¹						
Lower Entiat	Riparian condition	30	30	30	35	40	2
Lower Entiat	Side-channel connectivity	10	12	12	15	15	25
Mad River	Habitat diversity	91	91	91	97	99	33.33
Mad River	Habitat quantity	90	90	90	97	99	33.33
Mad River	Improve streamflow ¹						
Mad River	Two obstructing pipes in Tillicum	98	98	98	100	100	33.33
Middle Entiat	Excessive Fine Sediment	23	24	24	30	30	40
Middle Entiat	Habitat diversity	60	62	62	70	80	35
Middle Entiat	Riparian condition	80	81	82	85	90	20
Middle Entiat	Stormy obstructions to passage	93	93	93	99	99	5
Middle Entiat	Water Quantity ¹						

Estimated % Change in Habitat Quality at the Population Level

Entiat steelhead (priority)

