Managing Water in the West

FCRPS BiOp Tributary Habitat Implementation

Update



October 20, 2011

Goals

- Meet FCRPS BiOp requirements
- Explore ideas to improve the project selection processes to meet BiOp requirements

Today's Topics

FCRPS BiOp requirements





- AA timelines/processes
- Recent planning and implementation tools
- EP prep tasks
- Integration
- Summary

 Table 5. Estimated Habitat Quality Improvements

ESU	Major Population Group	Population	Estimated Percentage Habitat Quality Improvement of 2007- 2009 Actions	Total Estimated Percentage Habitat Quality Improvement of 2007-2018 Actions	
Snake River Spring/Summer Chinook		Catherine Creek	4	23	
	Grand Ronde/Imnaha	Lostine/Wallowa River	2	2 *	
	Grand Konde/Infinana	Grand Ronde River upper mainstem	2	23	
		Imnaha River mainstem	1	1 *	
	Middle Fork Salmon River	Big Creek	1	1 *	
		Secesh River	1	1 *	
	South Fork Salmon River	South Fork Salmon River Mainstem	<1	<1 *	
	Lower Snake	Tucannon River	7	17	
		East Fork Salmon River	1	1 *	
		Lemhi River	7	7 *	
		Pahsimeroi River	41	41 *	
	Upper Salmon River	Salmon River lower mainstem below Redfish Lake	1	1 *	
		Salmon River upper mainstem above Redfish Lake	14	14 *	
		Valley Creek	1	1 *	
		Yankee Fork	10	30	
Upper Columbia Spring	Upper Columbia – Below	Entiat River	10	22	
Chinook	Chief Joseph	Methow River	2	6	
Cimiook	Cilici Joseph	Wenatchee River	1	3	

 Table 5. Estimated Habitat Quality Improvements (continued)

ESU	Major Population Group	Population	Estimated Percentage Habitat Quality Improvement of 2007- 2009 Actions	Total Estimated Percentage Habitat Quality Improvement of 2007-2018 Actions	
Middle Columbia		Deschutes River – eastside	1	1 *	
Steelhead	Cascades Eastern Slope	Deschutes River – Westside	<1	<1 *	
	Tributaries	Fifteen mile Creek (winter run)	<1	<1 *	
		Klickitat River	4	4 *	
		John Day River lower mainstem tributaries	<1	<1 *	
	John Day Divon	John Day River upper mainstem	<1	<1 *	
	John Day River	Middle Fork John Day River	<1	<1 *	
		North Fork John Day River	<1	<1 *	
		South Fork John Day River	1	1 *	
	Umatilla and Walla Walla	Touchet River	4	4 *	
	River	Umatilla River	4	4 *	
	Kivei	Walla Walla River	4	4 *	
		Naches River	4	4 *	
		Satus Creek	4	4 *	
	Yakima River Group	Toppenish	4	4 *	
		Yakima River upper mainstem	4	4 *	
Snake River Steelhead		Lochsa River	6	16	
		Lolo Creek	8	12	
	Clearwater River	Selway River	<1	<1	
		South Fork Clearwater River	5	14	

 Table 5. Estimated Habitat Quality Improvements (continued)

ESU	Major Population Group	Population	Estimated Percentage Habitat Quality Improvement of 2007- 2009 Actions	Total Estimated Percentage Habitat Quality Improvement of 2007-2018 Actions
Snake River Steelhead	Grand Ronde River	Grand Ronde River lower mainstem tributaries	<1	<1 *
		Grand Ronde River upper mainstem	4	4 *
		Joseph Creek (OR)	<1	<1 *
		Joseph Creek (WA)	4	4 *
		Wallowa River	<1	<1 *
	Hells Canyon	Hells Canyon		
	Imnaha River	Imnaha River		*
	Lower Snake	Asotin Creek	4	4 *
		Tucannon River	5	5 *
	Salmon River	Lower Middle Fork mainstem and tribs (Big, Camas, and Loon Creeks)	1	2
		East Fork Salmon River	2	2 *
		Lemhi River	3	3 *
		Pahsimeroi River	9	9 *
		Salmon River upper mainstem	6	6*
		Secesh River	1	6
		South Fork Salmon River	<1	1
Upper Columbia Steelhead	Upper Columbia River –	Entiat River	6	8
	below Chief Joseph	Methow River	2	4
		Okanogan River	12	14
		Wenatchee River	1	4

^{*} The Action Agencies may provide funding and/or technical assistance for replacement projects should they become necessary for the Action Agencies to achieve equivalent MPG or ESU survival benefits.

Today's Topics

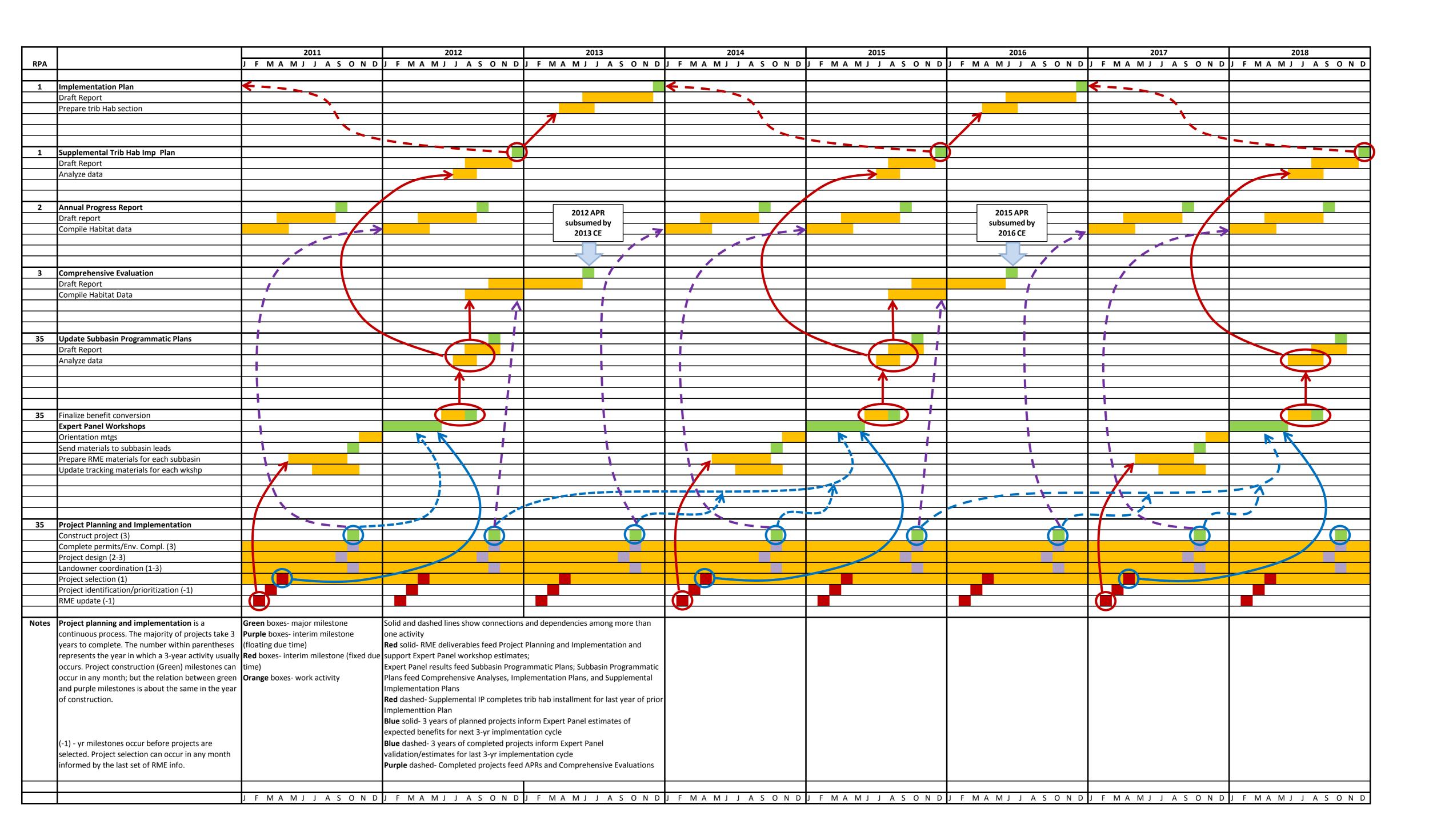
- FCRPS BiOp requirements
- AA timelines/processes





- Recent planning and implementation tools
- EP prep tasks
- Integration
- Summary

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	2011	2012	2013	2014	2015	2016	2017	2018
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2010 – 2012 Planned Actions Table

Upper Columbia River Steelhead and Spring Chinook - Entiat River

Accessment Unit	Primary Limiting Factor(s)		2010	2010	2011	2011	2012	2012	
(AU)	(PLF) by AU	Actions	Metric	Planned Value	Metric	Planned Value	Metric	Planned Value	Comments
Lower Entiat	Low Stream flow	Continue Knapp-Wham and Hanan		Trainiou varao		Tidiniou Tuido		Tidiniou Taluo	Comments
		Detwiler irrigation ditch							
		consolidation effort							
Lower Entiat		Continue exploring extension of							
		Entiat Irrigation District line							
		upstream to serve PUD							
		canal/system users	1: 6 1/	0.6.04.16					0 1 1 11
Lower Entiat		Pursue other water conveyance efficiency and diversion	cubic feet/second restored to stream	2 cfs (McKenzie); USBR stimulus well					Surface water effect,
		improvements	restored to stream	conversions ~ 2 cfs;					savings will be somewhat less.
		Improvements		Roaring Cr. Well					1633.
				conversion ~ 1.5 cfs;					
				BOR					
Lower Entiat		Improve on-farm irrigation		2 cfs (McKenzie);					Surface water effect,
		application efficiency, scheduling,		USBR stimulus well					savings will be somewhat
		and general water conservation.		conversions ~ 2 cfs;					less.
				Roaring Cr. Well					
				conversion ~ 1.5 cfs; BOR					
Lower Entiat		Provide technical and cost-share		DUK					
		assistance for water metering and							
		reporting							
Lower Entiat		Continue conversion of surface	cubic feet/second	1 cfs (surface to					
		water diversions to ground	restored to stream	wells)					
		water/well withdrawals, when							
Lower Entiat	Dinarian condition	feasible							
Lower Entiat	Riparian condition	Implement riparian planting projects with willing landowners							
Lower Entiat		Work with willing landowners to							
Lower Liniar		protect larger, undisturbed riparian							
		areas by first pursuing conservation							
		easement, lease, and options other							
		than outright property acquisition							
	E			00 7 (5		00 7 (1.1.)			
Lower Entiat	Floodplain connectivity	Implement Ecosystem Diagnosis	miles of river restored	0.2 miles (Foreman)	miles of river restored	0.3 miles (natchery)			
		and Treatment (EDT) Alternative 5 related to side-channel options				CMB review			
		related to side-charmer options				comment: planned for			
						implementation in			
						2010			
Lower Entiat	Habitat diversity	Implement EDT Alternative 5,	miles of river treated	0.2 miles (lower	miles of river restored				
		focusing on pool forming structures		screw trap); 0.2 miles		bridge); 0.3 miles			
				(Foreman); 0.3 miles		(hatchery); 0.3 miles			
				(B2B Phase 3)		(LBS); 0.3 miles			
						(Keystone)			
						CMB review			
						comment: implement			
						action in next cycle,			
						2014, per IMW			
						decision			
Lower Entiat	Habitat quantity	Implement EDT Alternative 5,	miles of river restored		miles of river restored				
		focusing on pool forming structures		screw trap); 0.2 miles		bridge); 0.3 miles			
				(Foreman); 0.3 miles (B2B Phase 3)		(hatchery); 0.3 miles (LBS); 0.3 miles			
				(DZD Pliase 3)		(Keystone)			
						(INEYSTOTIE)			
						CMB review			
						comment: implement			
						action in next cycle,			
						2014, per IMW			
						decision			

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

Steelhead - Entiat River

		2010-2012 VALUES					
		Starting Low 10-12 Estimates		Updated Hig	Updated LF		
Assessment Unit	Limiting Factor	Bookend	2018	2033	2018	2033	Weight
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						

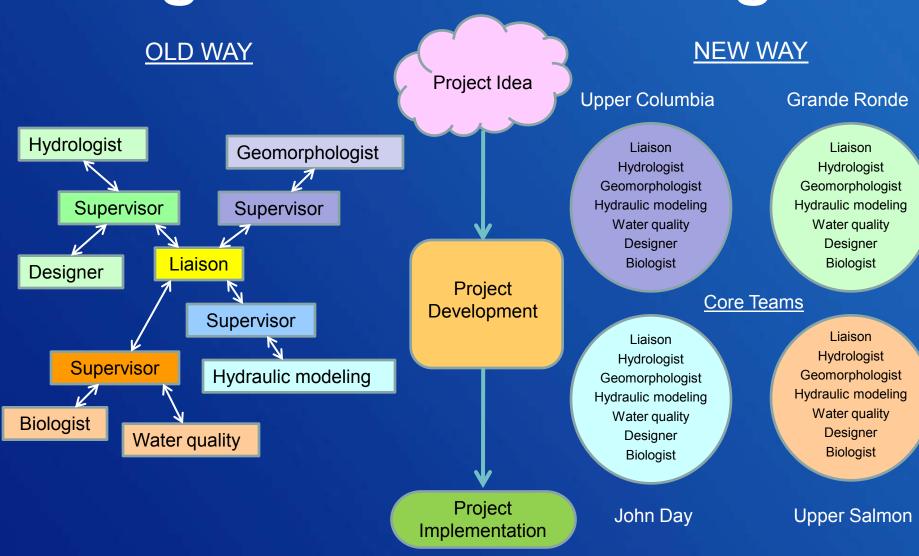
Today's Topics

- FCRPS BiOp requirements
- AA timelines/processes
- Recent planning and implementation tools

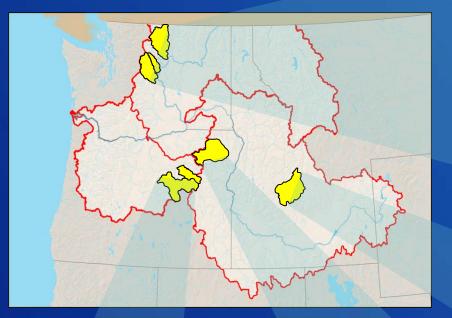


Summary

Organizational Changes



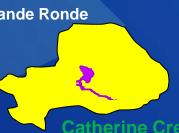
USBR Tributary and Reach Assessments, 2011



Methow TA- 79 mi. Big Valley RA 7 mi. Lower White Pine Middle Methow RA RA 2 mi. 11 mi. **Upper White Pine Preston RA** RA2 mi. 2 mi. Kahler RA Stormy RA 4 mi. **Entiat** 3 mi. TA- 26 mi. Wenatchee Nason Creek TA- 10 mi.

Oxbow RA 2 mi. **Middle Fork** John Day Forrest RA **Upper John Day** 4 mi. **TA-26 mi.**

Grande Ronde



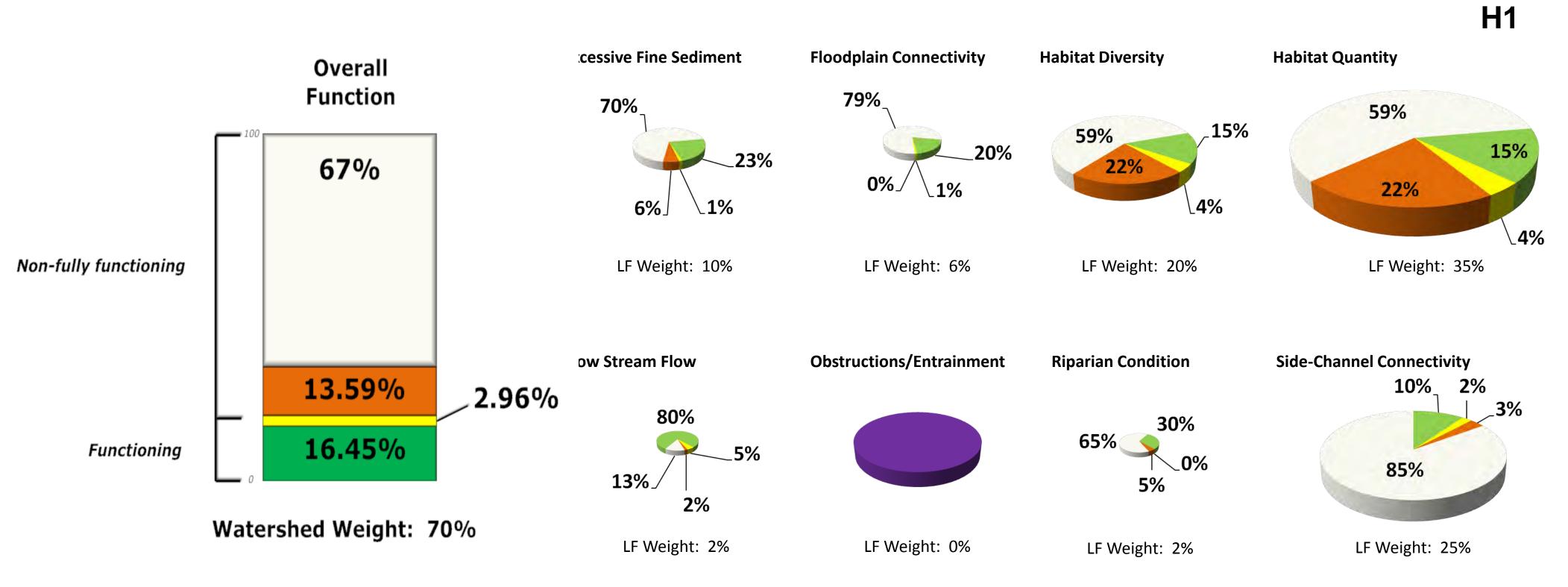
Upper Salmon

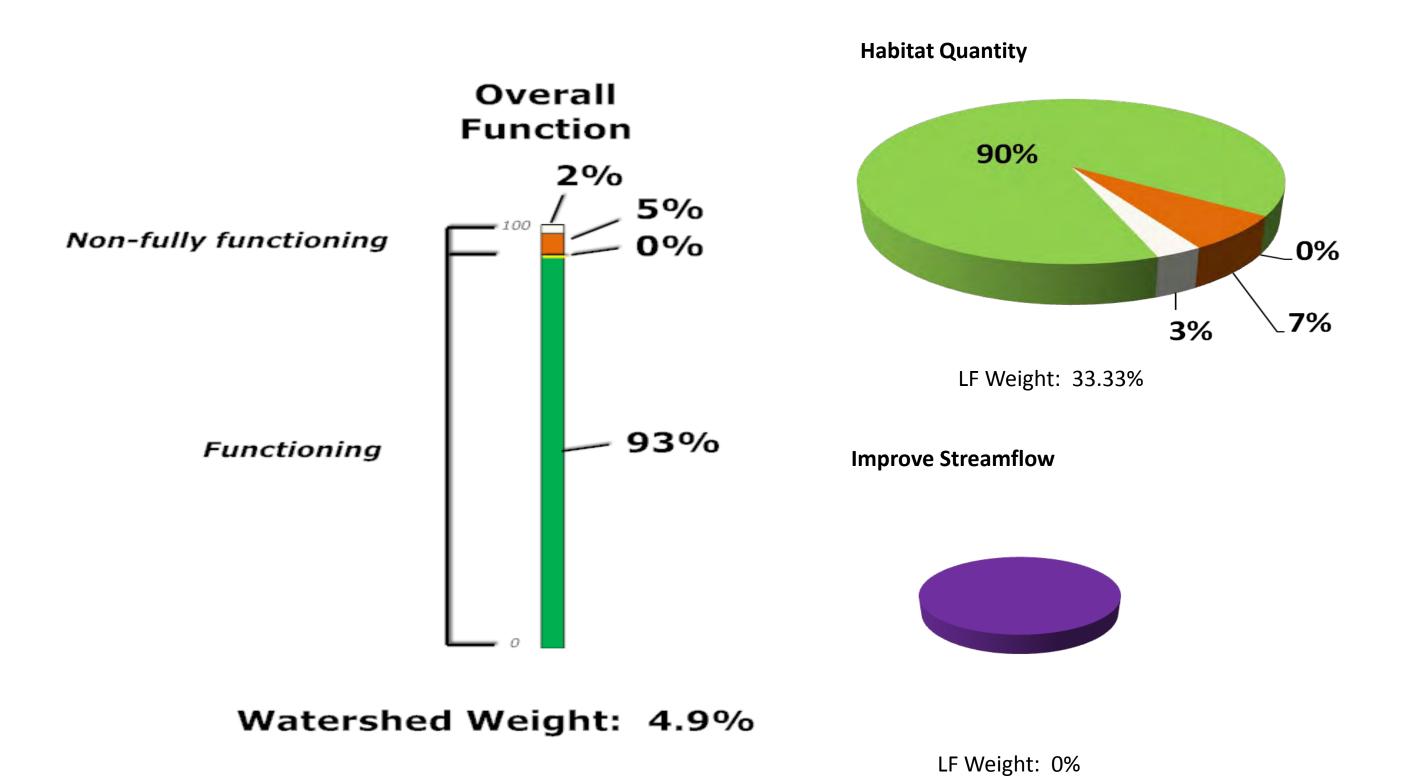
Catherine Creek TA- 59 mi.

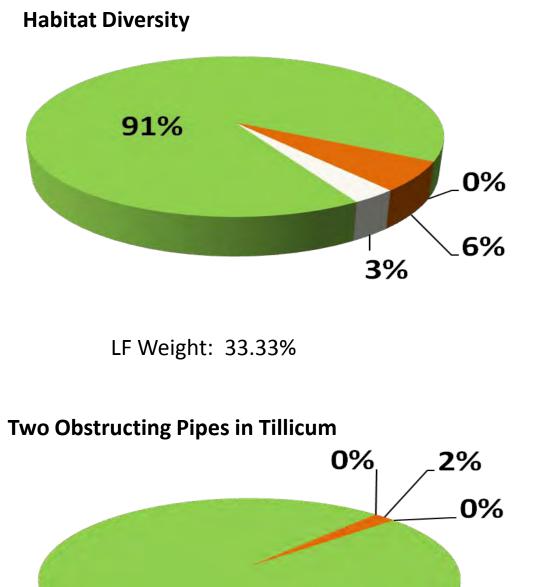
RECLAMATION

http://www.usbr.gov/pn/programs/fcrps/thp/index.html

Lower Entiat Chinook Limiting Factor Status







LF Weight: 33.33%

98%

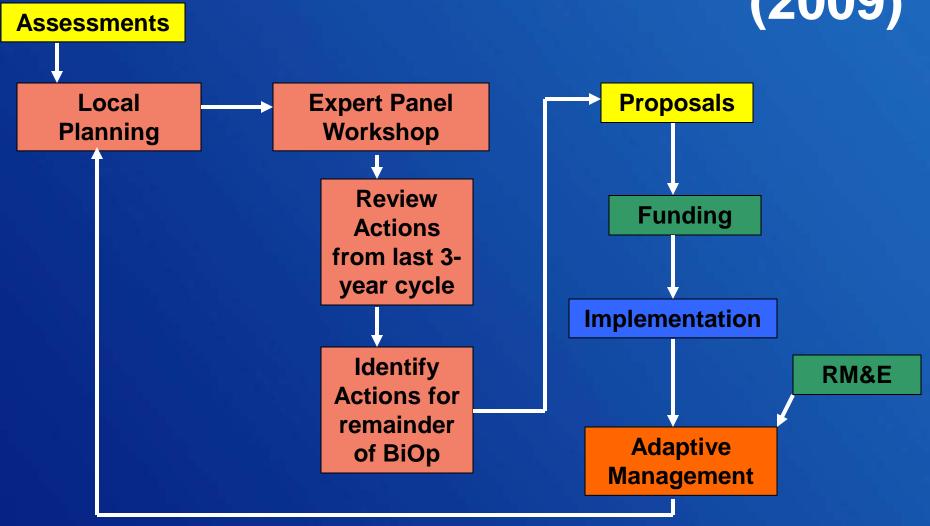
EP Prep tasks

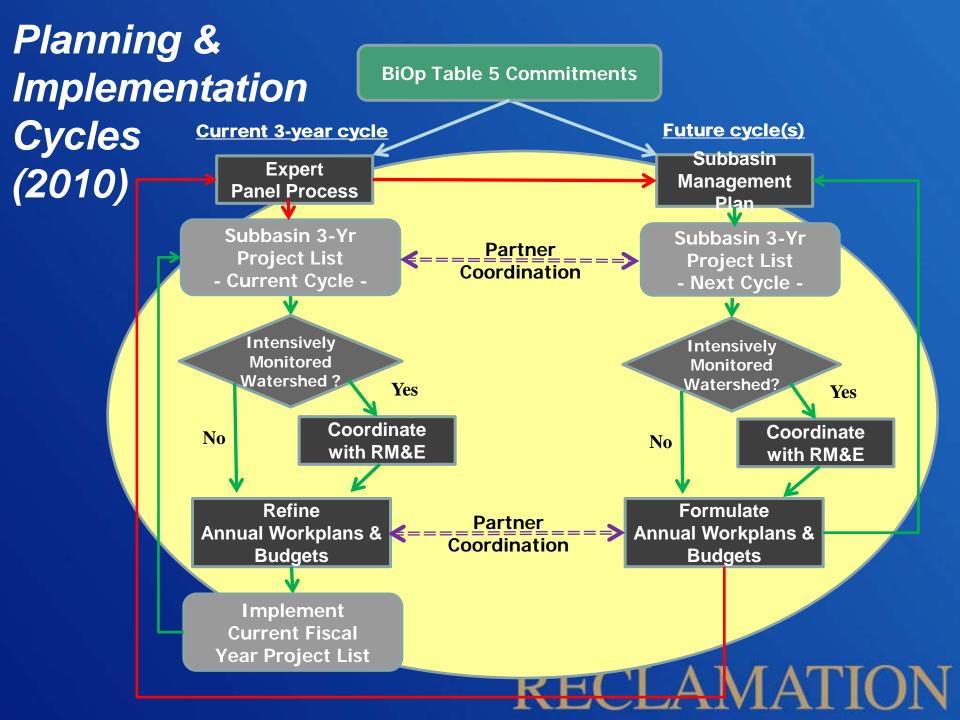
- Standardizing Limiting Factors
- Building list of 2009-2012 completed projects
- Building list of 2013-2018 projects
- Developing database system to manage workshop proceedings
- Working w/NOAA FSC to support EPs (and watershed planning groups) with readily-available, relevant monitoring info
- EP workshops completed by April

Integration

- USBR- BPA- NOAA- NPCC- CRITFC- Watershed Partners
- Planning- Funding- Implementation- Reporting- RME-Adaptive Management-

Generalized Implementation Cycle (2009)





Summary

- FCRPS BiOp table 5 commitments are paramount
- AAs and region have two BiOp implementation cycles behind us
- Results indicate where progress is in line and where focus is needed
- Tools help illustrate what can be done and where to do it to provide greatest biological benefits
- Reclamation has made significant internal adjustments to better address table 5 commitments and provide technical services for this effort
- Reclamation contributions aid integrated approach to plan and implement habitat improvement projects among regional partners, (but not all the way there yet)