Subbasin Plans

March Council Meeting
Portland, Oregon
Council staff





Why Subbasin Plans

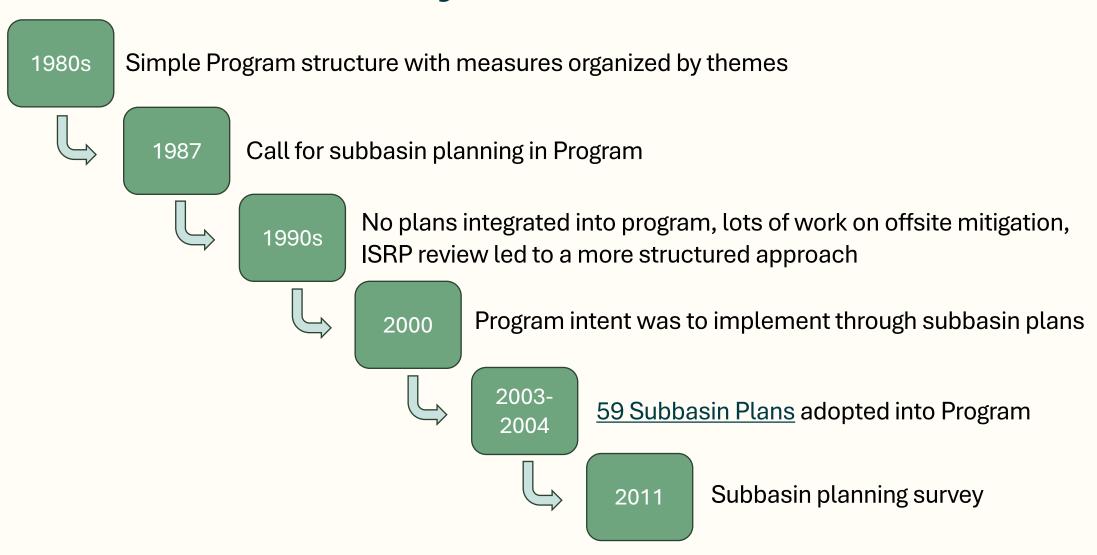


- Provide site specific focus
- To facilitate development of scientifically credible and locally implementable subbasin scale plans as described in the 2000 F&W Program:
 - Guide Bonneville's expenditures and provide context for scientific review
 - Be a foundation for ESA listed salmon recovery plans and planning
 - Package protection and restoration action measures with locally prescribed regulatory approaches to meet ESA needs for 5-10 years
 - Provide an opportunity for coordination with other local, state, tribal, and federal fish and wildlife activities
 - Bottom up, locally driven process
 - The best available knowledge is used, and plans will be updated to incorporate additional or improved data and analysis





History of Subbasin Plans





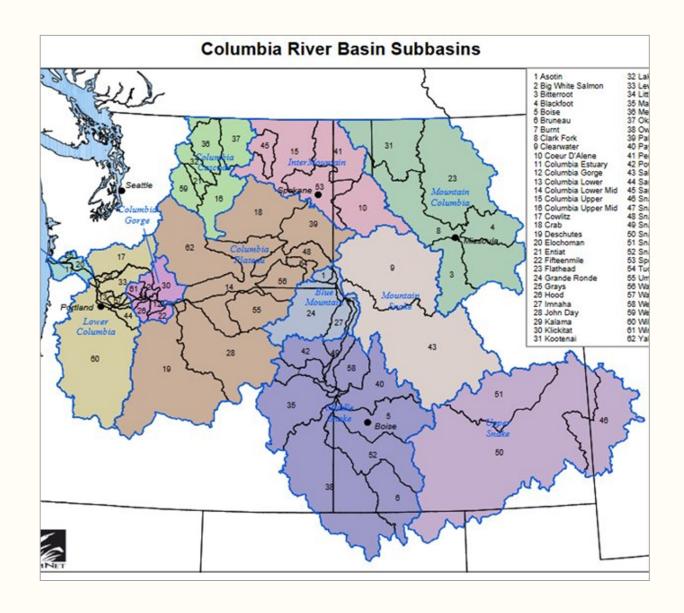


Subbasin Plan Process

- Locally led, locally developed
- State developed planning groups secure support from Governor's Office and Tribal government and include F&W agency role
- Lead entity identified in each subbasin
- Funding contracts for staff or contractors in some cases
- Workshops on process, standards, ESA integration, EDT (project prioritization)

Final process:

- Independent Scientific Review
- Council Review
- Adopt management plan portion into Program





Subbasin Plan
Structure

- Assessment
- Inventory of Existing Activities
- Management Plan
 - Vision
 - Biological Objectives
 - Strategies
 - Monitoring and Evaluation

Ecosystem Diagnosis and Treatment – EDT

- Assesses relative habitat capacity by species
- Identify habitat attributes that likely limit survival and production
- Generates ranking for historical, current conditions
- Developed for anadromous salmonids

Qualitative Habitat Assessment Tool – QHA

- Similar to EDT but uses professional judgement to create tables that describe the habitat and identifies where restoration would be most productive
- Developed for resident salmonids





What's in them?

1. Executive Summary
2. Introduction
2.1 Description of Planning Entity
2.2 List of Participants
2.3 Stakeholder Involvement Process
2.4 Overall Approach to the Planning Activity
2.5 Process and Schedule for Revising/Updating the Plan
3. Subbasin Assessment
3.1 Subbasin Overview
3.1.1 General Description
3.1.2 Subbasin Existing Water Resources
3.1.3 Hydrologic and Ecologic Trends in the Subbasin
•
3.2 Focal Species Characterization and Status
Importance 48
3.2.2 Focal Species Selection
3.2.3 Model Methods – EDT and QHA
3.2.4 Aquatic Focal Species Population Delineation and Characterization71
Summer Steelhead
Spring Chinook Saimon 91 Bull Trout 108
Redband Trout 142
Westslope Cutthroat Trout 151
3.2.5 Terrestrial Focal Species Population Delineation and Characterization
3.3 Out-of-Subbasin Effects
3.3.1 Aquatic
3.3.2 Terrestrial
3.4 Environmental/Population Relationships
3.5 Identification and Analysis of Limiting Factors/Conditions
3.5.1 Aquatic Limiting Factors
3.5.2 Terrestrial Limiting Factors
4. Inventory of Existing Activities
4.1 Existing Legal Protection
4.1.1 Laws/Regulatory Programs
4.1.2 Treaties between Tribes and the Federal Government
4.1.3 Lands with Legal Mandates for Conservation

4.2 Existing Plans	
4.2.1 General Management Plans	203
4.3 Existing Management Programs	211
4.3.1 Voluntary Conservation Programs	
4.3.2 Monitoring and Evaluation Programs	
4.4 Existing Restoration and Conservation Projects	217
4.4.1 Restoration and Conservation Projects	217
4.4.2 Research, Monitoring and Evaluation Projects (includes studies)	217
4.5 Gap Assessment of Existing Protections, Plans, Programs and Projects	
4.5.1 Existing Legal Protection	218
4.5.2 Existing Plans and Studies	219
4.5.3 Existing Management Programs	222
4.5.4 Existing Restoration and Conservation Projects	222
5. Management Plan	224
5.1 Vision for the Subbasin	
5.1.1 Human Use of the Environment	
5.1.2 Aquatic Species	
5.1.3 Terrestrial Species	
5.2 Biological Objectives and Prioritized Strategies	
5.2.1 Working Hypotheses	230
5.2.2 Aquatic Species	230
5.2.2.1 Synthesis of Analytical Results	230
5.2.2.2 Biological Objectives	236
5.2.2.3 Habitat Objectives to Address Limiting Factors	242
5.2.2.4 Restoration Strategies and Priorities	244
5.2.2.5 Project Prioritization Framework	285
5.2.3 Terrestrial Species	
5.3 Consistency with ESA/CWA/Tribal Treaty Requirements	311
5.4 Research, Monitoring and Evaluation	313



Use

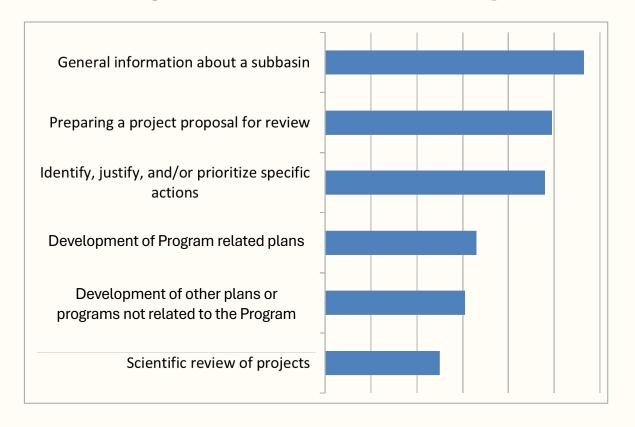
- Unified partners in subbasins
- Provided the foundation for recovery planning
- Used by subbasins to guide future planning efforts
- Used to inform future watershed/restoration plans
- ISRP used the plans to ensure project consistency



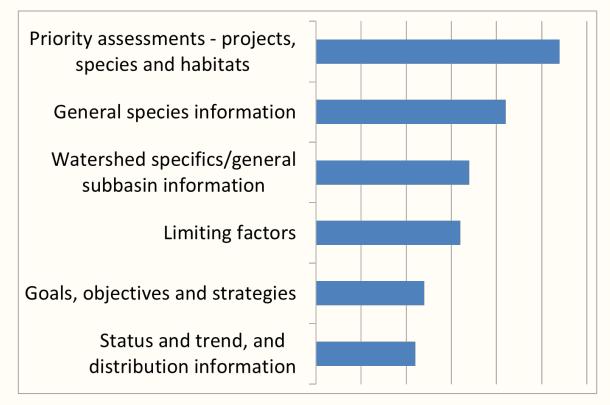


2011 Survey Results

How do you use the subbasin plans?



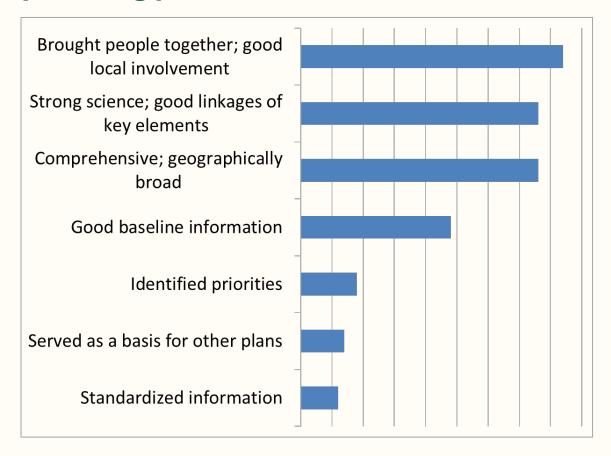
Which parts do you reference?



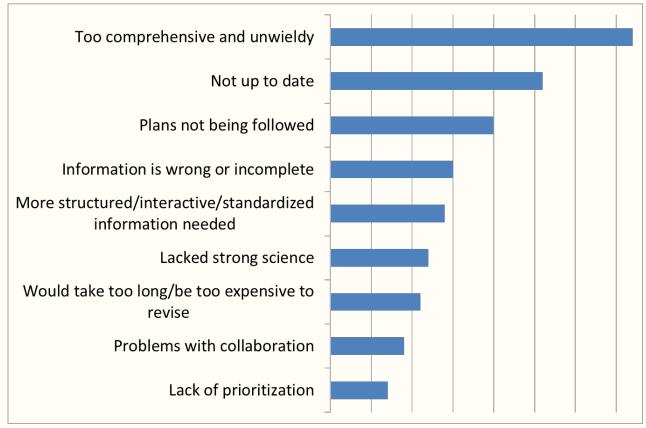


2011 Survey Results

Strengths of the plans and the past planning process?



Weakness of the plans and the past planning process?



2011 Survey Results: Summary

- Subbasin plans are still relevant
- Should be used for guiding future work
- Collaboration is valuable
- Establishing priorities is valuable
- Integration with ESA recovery planning was occurring
- A desire to make the plans more concise, structured, interactive, and "live"



Issues

- Developed with a 10-15 year lifespan
- Plans are dated (management plan sections) technical assessments still valid (intended to be a foundation)
- Tension about whether BPA was responsible for all actions identified
- Length and depth of plans differed across subbasins
- Action plans (short term), in other places accords
- Weak links between limiting factors and justifiable, prioritized implementation actions in the management plan section
- Plans sometimes lacked prioritized RM&E





2014 Program

- Updating the subbasin plans in most need of updates was identified in the
 2014 Program (page 116) as an emerging priority
- No funding allocated to this, meant to be a bottom-up approach
- Recognition that the plans are getting old



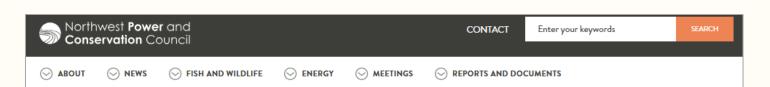
Appendix O (page 191) of the 2014 Program contains links to specific action measures for implementation that are consistent with the subbasin plans



Where to find **Subbasin Plans**

nwcouncil.org/subbasin-plans





Subbasin Plans

These plans are amendments to the Fish and Wildlife Program:

Asotin		
Big White Salmon	Hood	<u>Okanogan</u>
	<u>Imnaha</u>	Owyhee
Bitterroot	Intermountain*	Powder
Blackfoot	John Day	Salmon
Boise/Payette/Weiser		
	Klickitat	Snake Hells Canyon

 Bruneau
 Kootenai
 Tucannon

 Burnt
 Lake Chelan
 Umatilla

Columbia Gorge
Lower Columbia **

Upper Middle Columbia
Upper Snake

 Deschutes
 Lower Snake
 Walla Walla

 Entiat
 Malheur
 Wenatchee

 Fifteenmile
 Methow
 Willamette

 Flathead
 Middle Snake
 Yakima

2005 findings and responses to comments on Subbasin Plan Amendments

2010 findings and responses to comments on Bitterroot Plan

2011 findings and responses to comments on Blackfoot Plan

- * The <u>Intermountain</u> plan includes these subbasins: Coeur d'Alene, Lake Rufus Woods, Pend Oreille, San Poil, Spokane, Upper Columbia Mainstem
- **The Lower Columbia plan includes these subbasins: Columbia Estuary, Cowlitz, Elochoman, Grays, Kalama, Lewis, Little White Salmon, Lower Columbia Mainstem, Washougal, Wind, Lower Mid-Columbia Mainstem, Lower Snake Mainstem

Plans for the Crab and Palouse subbasins were submitted but not adopted as amendments.

Maps

Interactive subbasin map



Map of provinces and subbasins (PDF)



2023 update to subbasin and province boundaries (interactive)

Other resources

- Overview
- How to cite subbasin plans
- Subbasin Planning QHA, EDT and other Models Geodatabase



Looking ahead

- Is there interest in updating subbasin plans?
- How are plans currently being used?
- Where have plans been updated?
- How is progress towards implementing plans tracked?
- Where do people want to go next with subbasin plans?





Extra slides





SUBBASIN / SPECIES DASHBOARDS

PICK A SUBBASIN FROM THE MAP OR LIST:

Asotin

Big White Salmon

Bitterroot

Blackfoot

Boise

Bruneau

Burnt

Clark Fork

Clearwater

Coeur d'Alene

Columbia Gorge

Columbia Gorge Tributaries

Columbia Lower and Estuary

Columbia Lower Middle

Columbia Upper

Columbia Upper Middle

OR CHOOSE SPECIES:

Bull Trout Pacific Lamprey White Sturgeon Subbasin plans are complex documents. To show key elements of these plans simply and efficiently, we've made these "dashboards" for those subbasins with plans. They show extracts of the plans and links to related management plans, local maps, and contact information. We will update these frequently, and invite your help.

Contact <u>Laura Robinson</u> at 503-222-5161 with feedback or questions.







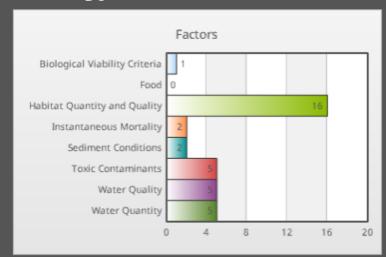
JOHN DAY SUBBASIN DASHBOARD

COUNCIL RESOURCES

Objectives

Objectives (from 2004 subbasin plan and data) filter for		
1,128 smolt per spawner	Chinook	<u>^</u>
1,221 baseline adundance	Summer Steelhead	
1,300	Steelhead	
1,448 baseline abundance	Summer Steelhead	
1,731 baseline abundance	Spring Chinook	
1,737 baseline abundance	Summer Steelhead	
1,804 PFC abundance	Spring	*
Goals and strategies under development		

Limiting factors & actions



Click to display the 36 occurrences of impairments by limiting factor affecting multiple species and 28 recommended actions. Click bars for more detail.

THE JOHN DAY SNAPSHOT

Projects

BPA-funded F&W Program projects from cbfish.org filter for	Annual reports	
1984-021-00 - John Day Habitat Enhancement	reports	<u></u>
1993-066-00 - Oregon Fish Screens Project	reports	
1994-043-00 - Lake Roosevelt Data Collection	reports	
1997-004-00 - Resident Fish above Chief Joseph and Grand Coulee Dams	reports	
1998-016-00 - Escapement and Productivity of Spring Chinook and Steelhead	reports	
1998-022-00 - Pine Creek Conservation Area	reports	
2000-015-00 - Upper John Day Conservation Lands Program	reports	
2000-031-00 - Enhance Habitat in the North Fork John Day River	reports	¥

EXTERNAL RESOURCES

Programs & plans

TRIBE >

STATE ►

News & updates

Council's Amended Fish and Wildlife Program Adopted October 2014

Focal species & geography



