Watershed Pathway Updates

1/19/2016
Fish Barrier Removal Board
Stacy Polkowske, WDFW
Watershed Pathway Updates

• Progress on identifying focus reaches
  – Snake
    • Grande Ronde Tribs
    • Snake River Tribs
  – Coast HUC 10
    • Newaukum
  – Puget Sound
  – L. Columbia, U. Columbia, Yakima
Approved HUC10 Nominations

Statewide
- Lower Columbia
  - Lower Cowlitz
- Yakima River
  - Wilson/Cherry
- Snake River
  - Grande Ronde Tribs
  - Snake River Tribs
- Upper Columbia
  - Okanogan

Puget Sound
- Pilchuck Creek
- Pysht River
- Goldsborough Creek

Coast
- Newaukum
Approved HUC 10 Nominations
Workflow Timeline

• January – May
  – Focus reach identification
  – Initial pre-scoping and landowner permissions
  – Funding package development

• May Board Meeting
  – Initial approval of projects of both grant pathways

• May – July
  – Feasibility, cost-estimates, additional scoping, engineering review

• August Board Meeting
  – Approval of project list
Snake River Salmon Recovery Board

• Focus Reaches and Priorities
  – Grande Ronde Tribs
  – Snake River Tribs
WA Coast HUC10- Newaukum

• Update:
  – January 11th Habitat Workgroup Subcommittee meeting
  – Identified several focus reaches and priority culvert corrections
    • Middle Fork Newaukum
    • Lower South Fork Newaukum
  – Next step – get in the field!
Middle Fork Newaukum Potential Funding Package

• Net Gain = 5.5 miles
  – High value IP for Coho Winter Rearing
• 3 county culverts
  – Birchfield Access Rd (submitted to Coordinated Pathway)
  – Dluhosh Rd
  – Centralia Alpha Rd
• Cost estimate = $1.3M
Lower South Fork Newaukum

• Net Gain = 8.7 miles
  – High and medium value IP for Coho Winter Rearing

• 3 county culverts (all submitted to Coordinated Pathway)

• 1 private

• Cost estimate = $1M
Puget Sound Watershed Updates

Pysht River

- Received new inventory data from the County and entered into database
- Finishing Hoko Packages for Lead Entity Input
- Meeting with Sub-committee of the North Olympic LE on Feb 4th to go over packages and prioritize
Puget Sound Watershed Updates

Pilchuck River

-A fourth package was added for LE review. HUC 12 packages are Bunk Foss Creek, Catherine Creek, Little Pilchuck Creek, and Unnamed Trib to Pilchuck R.

-Coordinating with Snohomish LE to prioritize packages
Puget Sound Watershed Updates

Goldsborough Creek

-A third package was added for LE review. HUC 12 packages are Goldsborough creek, Cranberry Creek, and Sherwood Creek.

-Met with WRIA 14 Lead Entity to go over suggested packages.

-Meeting set up with WRIA 14 LE on January 28 to prioritize packages.
Other Statewide Watersheds

- Lower Columbia - Lower Cowlitz
- Yakima River - Wilson/Cherry
- Upper Columbia - Okanogan
Questions and Discussion
GRANDE RONDE TRIBUTARIES
FOCUS AREA: METRICS AND PRIORITIZATION

FBRB meeting
Jan 19, 2016
Data provided was collected by Walla Walla Community College (WWCC) in a road crossing inventory completed in 2010.

Barrier priorities are in order, highest to lowest in the following slides.

Pictures are provided by WWCC and Sean Taylor, WDFW.

This information is provided to the FBRB in conjunction with the Snake River Salmon Recovery Board.
GRANDE RONDE FOCUS AREA

*Rattlesnake Creek-Highlighted in yellow was completed in 2014 by the Asotin County Conservation District.*
Metrics

- WSD: 0.4m; Slope: 2.2%
- Length: 14.3m
- Species: Steelhead
- Lineal Gain: ~2 miles (to next barrier)
- Proposed fix: Bridge
- Cost: 200 – 300K
- Owner: Asotin County

PRIORITY 1 - COUGAR CREEK #1
Metrics

- WSD: .3m; Slope: 2.2%
- Length: 51.8m
- Species: Steelhead
- Lineal Gain: 1.7 miles (to end of fish distribution)
- Proposed fix: Nez Perce Tribe doing design currently, w/ SRFB grant
- Cost: 500K – 1 Million
- Owner: WSDOT
Metrics

- Slope: 7.3% (needs level B assessment)
- Length: 14.3m
- Species: Steelhead
- Lineal Gain: ~2.5 miles (end of fish distribution)
- Proposed fix: Bridge
- Cost: 300-400K
- Owner: WSDOT
Metrics

- Slope: 11.5%
- Length: 16.2m
- Species: Steelhead
- Lineal Gain: 0.25 miles (to next barrier)
- Proposed fix: New culvert
- Cost: 100 - 150K
- Owner: Asotin County

*A Habitat Assessment would need to be conducted to determine if natural barrier is directly upstream.*
Metrics

- **Slope:** 9.8%
- **Length:** 18.3m
- **Species:** Steelhead
- **Lineal Gain:** ? (no fish distribution or barrier info above)
- **Proposed fix:** Culvert
- **Cost:** 100 – 150K
- **Owner:** Asotin County
Metrics

- WSD: .54m Slope: Unk
- Length: 21.6m
- Species: Steelhead
- Lineal Gain: 0.75 miles (to next barrier)
- Proposed fix: Bridge
- Cost: 300 - 400K
- Owner: Asotin County
- Road Fill Depth: 2-3m
Metrics

- WSD: 0.37m; Slope: 9.8%
- Length: 14.3m
- Species: Steelhead
- Lineal Gain: ? (no fish distribution or barrier info above)
- Proposed fix: Culvert
- Cost: 100 – 150K
- Owner: Asotin County
Top Three Culvert Priorities
- Cougar #1, Buford, Cottonwood
- Lineal Gain = 6.2 miles
- Estimated Cost = $1.7M
- 2 WSDOT, 2 County
- Target species = Steelhead
SNAKE RIVER TRIBUTARIES
FOCUS AREA: METRICS AND PRIORITIZATION

FBRB meeting
Jan 19, 2016
Data provided was collected by Walla Walla Community College (WWCC) in a road crossing inventory completed in 2010.

Barrier priorities are in order, highest to lowest in the following slides.

Pictures are provided by WWCC and Sean Taylor, WDFW.

This information is provided to the FBRB in conjunction with the Snake River Salmon Recovery Board.
Metrics

- Slope: 2.1%
- Length: 23.1m
- Species: Steelhead
- Lineal Gain: 8,492m (total gain)
- Proposed fix: Palouse CD has been awarded a SRFB grant to replace barrier culvert with a bridge in 2016
- Cost: 200 – 300K
- Owner: Whitman County
- FPDSI # 933021
Metrics

- Slope: 7.4%
- Length: 15m
- Species: Steelhead
- Lineal Gain: 5,912m (total gain)
- Proposed fix: Culvert
- Cost: 150 - 200K
- Owner: Whitman County
- FPDSI # 933022
Metrics

- WSD: .45m
- Species: Steelhead
- Lineal Gain: 3,434m (total gain)
- Proposed fix: Grade control weir(s)
- Cost: 50 – 100K
- Owner: Private
- FPDSI # 933028
Metrics

- WSD: 0.4m; Slope: 1.6%
- Length: 9.14m
- Species: Steelhead
- Lineal Gain:
- Proposed fix: Culvert
- Cost: 100 – 150K
- Owner: Whitman County
Metrics

- WSD: .54m
- Species: Steelhead
- Lineal Gain:
- Proposed fix: Culvert
- Cost: 150 – 200K
- Owner: Whitman County
Metrics

- WSD: 1.2m; Slope: 3.9%
- Length: 43.2m
- Species: Steelhead
- Lineal Gain:
- Proposed fix: Bridge
- Cost: 300 – 400K
- Owner: WSDOT

PRIORITY 6 - LITTLE ALMOTA CREEK #1
Metrics

- WSD: .24m; Slope: 2.1%
- Length: 70.1m
- Species: Steelhead
- Lineal Gain:
- Proposed fix: Bridge
- Cost: 1 Million
- Owner: Whitman County
Metrics

- Slope: 4.3%
- Length: 58.5m
- Species: Steelhead
- Lineal Gain:
- Proposed fix:
- Cost: 200K
- Owner: Whitman County
PRIORITY 9 - STEPTOE CREEK #3

Metrics

- Slope: 3.3%
- Length: 7.3m
- Species: Steelhead
- Lineal Gain: 5.492
- Proposed fix: Culvert
- Cost: 50 – 100K
- Owner: Private
- FPDSI # 933023
PRIORITY 10 - STEPTOE CREEK #4

Metrics
- WSD: .05m; Slope: .4%
- Length: 14.1m
- Species: Steelhead
- Lineal Gain:
- Proposed fix: Culvert
- Cost: 150 – 200K
- Owner: Whitman County
- FPDSI # 933024

*A level B assessment needs to be conducted to evaluate barrier status*
Metrics

- Slope: 2.0%
- Length: 14.5m
- Species: Steelhead
- Lineal Gain: 5,178
- Proposed fix: Culvert
- Cost: 150 – 200K
- Owner: Whitman County
- FPDSI # 933025
Metrics
- WSD: .1m; Slope: 1.3%
- Length: 14.4m
- Species: Steelhead
- Lineal Gain: 4,837
- Proposed fix: Culvert
- Cost: 150 – 200K
- Owner: Whitman County
- FPDSI # 933026
Top 3 Culvert Priorities
- Steptoe #1, Steptoe #2, Steward Cr Ford
- Lineal Gain = 11.7 miles (total gain – not net)
- Estimated Cost = $600K
- 2 County, 1 private
- Target species = Steelhead
Coordinated Project Pathway Ranking Criteria #1:

1. Accessibility Weighted Habitat Score
   - Multiply the passability of each barrier by the net gain
     - If a nomination has a passability of 100% the score is 0

2. Project Readiness (Individual Project Scale) Score
   - Score of 5 – 12 Points
   - Score of 4 – 10 Points
   - Score of 3 – 8 Points
   - Score of 2 – 3 Points
   - Score of 1 – 1 Point

3. Number of Anadromous Species Present
   - 1 Point for each anadromous species

4. Stock Status – What is the highest level of protection for a present species (SalmonScape)?
   - 1 Point – Unwarranted
   - 2 Points – Species of Concern
   - 3 Points – Threatened
   - 4 Points – More than 1 threatened species
Coordinated Project Pathway Ranking Criteria #2:

1. Linear Gain
   - Sort by largest to smallest in spreadsheet
   - Look at the scores of the top 50 projects

2. Project Readiness (Individual Project Scale)
   - Score of 1 – 1 Point
   - Score of 2 – 3 Points
   - Score of 3 – 5 Points
   - Score of 4 – 6 Points
   - Score of 5 – 8 Points

3. Barrier Status
   - Total Barrier – 5 Points
   - 33% Passable – 4 Points
   - 67% Passable – 3 Points
   - Unknown – 2 Points
   - 100% Passable – 0 Points

4. Are there unknown passable crossings or barriers downstream of the package?
   - No – 5 Points
   - 1 Unknown Passable crossing – 3 Points
   - ≥2 Unknown Passable crossings – 2 Points
   - Partial Barrier(s) – 1 Point
   - Total Barrier(s) – 0 Points

5. Number of anadromous species/stock
   - 1 Point for each species

6. Stock Status – What is the highest level of protection for a present species (SalmonScape)?
   - 1 Point - Unwarranted
   - 2 Points – Species of Concern
• 3 Points – Threatened
• 4 Points – More Than 1 Listed Species