

Workbook Info

Project: Expert Panel 2015-2016 Primary Data Recorder: Nick Legg, Geomorphologist, Cardno Inc.  
Meeting: Upper Grande Ronde Look Forward Latest Revision: 3/28/2016

Filename: UGRCC\_EP\_2016-18\_LookForward\_CalcSpreadsheet\_3-29-16.xlsx

Workbook Description

This workbook is the "Calculation Spreadsheet" used to capture planned actions and calculate expected functional uplifts during the Upper Grande Ronde Look Forward meeting on March 8-10, 2016. The biological notes spreadsheets also document the rationales underlying this spreadsheet.

Biological Notes Spreadsheets

Steelhead UpperGrandeRonde\_Steelhead\_2013-2018LookFWD\_HabFunction\_w\_bionotes\_3-29-16.xlsx

Chinook UpperGrandeRonde\_Chinook\_2013-2018LookFWD\_HabFunction\_w\_bionotes\_3-29-16.xlsx

Sheets: Sheets are produced for individual Assessment Units and named by the Assessment Unit Code. When the panel identified no actions in an assessment unit, a sheet was generally not created. Where Limiting Factors were reweighted in the look forward process, sheets document the new weights decided on by the panel.

Highlighting Key: Cells with outstanding follow-up items  
Cells containing comments from the Panel members during their review of spreadsheets following the Look Back Meeting  
Cells containing comments regarding changes made in response to panel comments.

**UGC1A    Middle GR Mainstem (Five-Pts Creek)**

## Sum of Revised Weights

100%

0%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Bookend	2015 Low Bookend	Revised Low Bookend
UGC1A	1.1	5%	40%	0%	-40%	20	20	20
UGC1A	4.1	5%	10%	15%	5%	75	75	75
UGC1A	4.2	5%	10%	15%	5%	75	75	75
ADDED	5.1	5%	0%	5%	5%			50
ADDED	5.2	5%	0%	5%	5%			50
UGC1A	6.1	5%	5%	5%	0%	70	70	70
UGC1A	6.2	5%	10%	20%	10%	70	70	30
UGC1A	7.2	5%	5%	5%	0%	70	70	70
UGC1A	8.1	5%	15%	25%	10%	80	80	80
UGC1A	9.2	5%	5%	5%	0%	80	80	80

Panel decided that AU weight should remain unchanged.

UGC1A Middle GR Mainstem (Five-Pts Creek)

Stream Miles of Chinook Use	11 mi	(used as denominator in uplift calculation)	(based on intrinsic potential layer [NOAA])
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UGC1A - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	11 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGC1A - LF 4.1 (Riparian Vegetation)

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Five Points Wood and Planting (2016)	7	0%	15%	0	1.05
Total Project Length	7			0	1.05
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	1.05				
Total Stream Miles (Denominator)	11 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	9.5%				

**UGC1A - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Five Points Wood and Planting (2016)	7		0%	8%	0
Total Project Length	7				0
Total # Projects	1				0.525
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.525				
Total Stream Miles (Denominator)	11 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	4.8%				

**UGC1A - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Five Points Wood and Planting (2016)	7		0%	5%	0
Total Project Length	7				0
Total # Projects	1				0.35
Total Miles Affected (Weighted for 2018)	0				
Total Miles Affected (Weighted for 2033)	0.35				
Total Miles (Denominator)	11 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	3.2%				

**UGC1A - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Five Points Wood and Planting (2016)	7		0%	5%	0
Total Project Length	#REF!				0
Total # Projects	0				0.35

Total Miles Affected (Weighted for 2018) 0  
Total Miles Affected (Weighted for 2033) 0.35  
Total Stream Miles (Denominator) 11 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	3.2%

UGC1A - LF 6.1 (Channel Structure and Form: Bed and Channel Form)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Five Points Wood and Planting (2016)	7		0%	0	0.7
Total Project Length	7			0	0.7
Total # Projects	1				

Total Stream Miles Affected (Weighted for 2018) 0  
Total Stream Miles Affected (Weighted for 2033) 0.7  
Total Stream Miles (Denominator) 11 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	6.4%

UGC1A - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Five Points Wood and Planting (2016)	7		45%	3.15	3.15
Total Project Length	7			3.15	3.15
Total # Projects	1				

Total Stream Miles Affected (Weighted for 2018) 3.15  
Total Stream Miles Affected (Weighted for 2033) 3.15  
Total Stream Miles (Denominator) 11 mi.

% Uplift (2018)	28.6%
% Uplift (2033)	28.6%

**UGC1A - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Five Points Wood and Planting (2016, ATV use exclusion)	0.25	0%	2%	0	0.005
Five Points Wood and Planting (2016, planting)	7	0%	8%	0	0.525
Total Project Length	#REF!			0	0.53
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.53				
Total Stream Miles (Denominator)	11 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	4.8%				

**UGC1A - LF 8.1 (Water Quality: Temperature)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Five Points Wood and Planting (2016, planting)	7	0%	5%	0	0.35
Total Project Length	7			0	0.35
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.35				
Total Stream Miles (Denominator)	11 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	3.2%				

**UGC1A- LF 9.2 (Water Quantity: Decreased Water Quantity)**

<u>Action</u>	<u>Leases</u>				
	<u>Permanent</u> <u>Acquisition</u>	<u>2016</u>	<u>2017</u>	<u>2018-2033 Flow</u> <u>2018 Acquired/Leased</u>	
No Actions					
Total	0	0	0	0	0

Total

Total # Projects

Denominator

% Uplift (2018)

#REF!

0.0 cfs

cfs

#DIV/0!

*Average of leases*

==>

0.0

Example: Base Flow

**UGC2      Middle GR Mainstem (Five-Pts Creek to Meadow Creek)**

## Sum of Revised Weights

100%

0%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Bookend	2015 Low Bookend	Atlas Weight s for reference
UGC2	1.1	7%	1%	1%	0%	95	95	0%
UGC2	4.1	7%	12%	13%	1%	50	50	13%
UGC2	4.2	7%	12%	10%	-2%	50	50	13%
Added	5.1	7%		10%	10%		50	13%
Added	5.2	7%		10%	10%		50	13%
UGC2	6.1	7%	10%	10%	0%	50	50	13%
UGC2	6.2	7%	15%	15%	0%	50	50	13%
UGC2	7.2	7%	10%	5%	-5%	70	70	8%
UGC2	8.1	7%	20%	25%	5%	40	40	14%
UGC2	9.2	7%	20%	1%	-19%	50	50	0%

Panel decided that AU weight should remain unchanged.



UGC2 Middle GR Mainstem (Five-Points Cr. To Meadow Cr.)

Stream Miles of Chinook Use	14.3 mi	(used as denominator in uplift calculation)
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UGC2 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Total Project Length	0			0	0
Total # Projects	0			0	0
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	14.3 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGC2 - LF 4.1 (Riparian Vegetation)

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>	
Bird Track Springs (2018)	1.59		0%	15%	0	0.2385
Total Project Length	1.59				0	0.2385
Total # Projects	1					
Total Stream Miles Affected (Weighted for 2018)	0					
Total Stream Miles Affected (Weighted for 2033)	0.2385					
Total Stream Miles (Denominator)	14.3 mi.					
% Uplift (2018)	0.0%					
% Uplift (2033)	1.7%					

**UGC2 - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Bird Track Springs (2018)	1.59		0%	8%	0
Total Project Length	1.59				0
Total # Projects	1				0.11925
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.11925				
Total Stream Miles (Denominator)	14.3 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>0.8%</b>				

**UGC2 - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Bird Track Springs (2018)	1.59		75%	90%	1.1925
Total Project Length	1.59				1.431
Total # Projects	1				1.1925
Total Miles Affected (Weighted for 2018)	1.1925				1.431
Total Miles Affected (Weighted for 2033)	1.431				
Total Miles (Denominator)	14.3 mi.				1.91 miles of side channel proposed
<b>% Uplift (2018)</b>	<b>8.3%</b>				
<b>% Uplift (2033)</b>	<b>10.0%</b>				

**UGC2 - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Bird Track Springs (2018)	1.59		75%	90%	1.1925
Total Project Length	1.59				1.431
Total # Projects	0				1.1925

Total Miles Affected (Weighted for 2018) 1.1925  
Total Miles Affected (Weighted for 2033) 1.431  
Total Stream Miles (Denominator) 14.3 mi.

% Uplift (2018)	8.3%
% Uplift (2033)	10.0%

**UGC2 - LF 6.1 (Channel Structure and Form: Bed and Channel Form)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>		<u>Realized</u>	<u>Realized</u>
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>			<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Bird Track Springs (2018)	1.59		75%	90%	1.1925	1.431
Total Project Length	1.59				1.1925	1.431
Total # Projects	1					

Total Stream Miles Affected (Weighted for 2018) 1.1925  
Total Stream Miles Affected (Weighted for 2033) 1.431  
Total Stream Miles (Denominator) 14.3 mi.

% Uplift (2018)	8.3%
% Uplift (2033)	10.0%

**UGC2 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>		<u>Realized</u>	<u>Realized</u>
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>			<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Bird Track Springs (2018)	1.59		75%	90%	1.1925	1.431
Total Project Length	1.59				1.1925	1.431
Total # Projects	1					

Total Stream Miles Affected (Weighted for 2018) 1.1925  
Total Stream Miles Affected (Weighted for 2033) 1.431  
Total Stream Miles (Denominator) 14.3 mi.

% Uplift (2018)	8.3%
% Uplift (2033)	10.0%

**UGC2 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Bird Track Springs (2017)	1.59	50%	60%	0.795	0.954
Total Project Length	#REF!			0.795	0.954
Total # Projects		0			
Total Stream Miles Affected (Weighted for 2018)		0.795			
Total Stream Miles Affected (Weighted for 2033)		0.954			
Total Stream Miles (Denominator)		14.3 mi.			
% Uplift (2018)		5.6%			
% Uplift (2033)		6.7%			

**UGC2 - LF 8.1 (Water Quality: Temperature)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Bird Track Springs (2017)	1.59		0%10%	0	0.159
Total Project Length	1.59			0	0.159
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)		0			
Total Stream Miles Affected (Weighted for 2033)		0.159			
Total Stream Miles (Denominator)		14.3 mi.			
% Uplift (2018)		0.0%			
% Uplift (2033)		1.1%			

UGC5      UGR Mainstem (Meadow Cr. To Sheep Cr.)

Stream Miles of Chinook Use	14.4 mi	(used as denominator in uplift calculation)
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UGC5 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	14.4 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGC5 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	14.4 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGC5 - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	14.4 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGC5 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Grande Ronde River Large Wood Restoration Complex (2018)	8	25%	25%	2	2
Total Project Length	8			2	2
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	2				
Total Stream Miles Affected (Weighted for 2033)	2				
Total Stream Miles (Denominator)	14.4 mi.				
% Uplift (2018)	13.9%				
% Uplift (2033)	13.9%				

**UGC5 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Grande Ronde River Large Wood Restoration Complex (2018)	8	0%	10%	0	0.8
Total Project Length	#REF!			0	0.8
Total # Projects	0				

Total Stream Miles Affected (Weighted for 2018)	0
Total Stream Miles Affected (Weighted for 2033)	0.8
Total Stream Miles (Denominator)	14.4 mi.
% Uplift (2018)	0.0%
% Uplift (2033)	5.6%

UGC5 - LF 8.1 (Water Quality: Temperature)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	14.4 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGC5 - LF 9.2 (Water Quantity: Decreased Water Quantity)

Action	Leases Permanent Acquisition	2016	2017	2018-2033 Flow 2018 Acquired/Leased
No Actions				
Total	0	0	0	0
		Average of leases ==>		0.0
Total	0.0 cfs			
Total # Projects	#REF!			
Denominator	cfs	Example: Base Flow		
% Uplift (2018)	#DIV/0!			

UGC7      UGR & Tribs. (Meadowbrook Cr. To E. Fk.; Clear Cr. & E. Fk.)

Stream Miles of Chinook Use	6.2 mi	(used as denominator in uplift calculation)
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UGC7 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	2.5		0%15%	0	0.375
Total Project Length	2.5			0	0.375
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.375				
Total Stream Miles (Denominator)	6.2 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	6.0%				

UGC7 - LF 4.2 (LWD Recruitment)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	2.5		0%8%	0	0.1875
Total Project Length	2.5			0	0.1875
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.1875				
Total Stream Miles (Denominator)	6.2 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	3.0%				



UGC7 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions					
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	6.2 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGC7 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions					
Total Project Length	#REF!			0	0
Total # Projects	0			0	0
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	6.2 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGC8**      **Sheep Cr. And Chicken Cr.**

Sum of Revised Weights

100%

0%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Booked	2015 Low Booked	Revised 2015 Low Booked
Added	1.1	7%	0%	5%	5%			90
UGC8	4.1	7%	10%	10%	0%	50	50	
UGC8	4.2	7%	10%	10%	0%	60	60	
UGC8	6.2	7%	20%	20%	0%	50	50	
UGC8	7.2	7%	30%	25%	-5%	30	30	
UGC8	8.1	7%	30%	30%	0%	70	70	

Panel decided that AU weight should remain unchanged.

UGC8      Sheep Cr. & Chicken Cr.

Stream Miles of Chinook Use	15.6 mi	(used as denominator in uplift calculation)
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UGC8 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Sheep Creek Culvert (2016, 2 culverts)	5		5%	0.25	0.25
Total Project Length	5			0.25	0.25
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0.25				
Total Stream Miles Affected (Weighted for 2033)	0.25				
Total Stream Miles (Denominator)	15.6 mi.				
% Uplift (2018)	1.6%				
% Uplift (2033)	1.6%				

UGC8 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5		0%	0	0.75
Sheep Creek Exclosure Fence (2017)	3		0%	0	0.45
Total Project Length	8			0	1.2
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	1.2				
Total Stream Miles (Denominator)	15.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	7.7%				

**UGC8 - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5	0%	8%	0	0.375
Sheep Creek Exclosure Fence (2017)	3	0%	8%	0	0.225
Total Project Length	8			0	0.6
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.6				
Total Stream Miles (Denominator)	15.6 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>3.8%</b>				

**UGC8 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Action				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	15.6 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>0.0%</b>				

**UGC8 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5	0%	8%	0	0.375

Sheep Creek Exclosure Fence (2017)	3	0%	8%	0	0.225
Total Project Length	8			0	0.6
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.6				
Total Stream Miles (Denominator)	15.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	3.8%				

**UGC8 - LF 8.1 (Water Quality: Temperature)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5	0%	5%	0	0.25
Sheep Creek Exclosure Fence (2017)	3	0%	5%	0	0.15
Total Project Length	8			0	0.4
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.4				
Total Stream Miles (Denominator)	15.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	2.6%				

## UGC9

## Limber Jim and Tribs and Meadowbrook Creek

## Sum of Revised Weights

# 100%

0%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Booked	2015 Low Booked	Revised 2015 Low Booked
UGC9	4.1	5%	10%	20%	10%	50	50	
UGC9	4.2	5%	10%	20%	10%	60	60	
UGC9	6.2	5%	20%	30%	10%	60	60	
UGC9	7.2	5%	30%	20%	-10%	55	55	
UGC9	8.1	5%	30%	10%	-20%	75	75	

Panel decided that AU weight should remain unchanged.

UGC9      Limber Jim and Tribs. & Meadowbrook Cr.

Stream Miles of Chinook Use	3.6 mi	(used as denominator in uplift calculation)
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UGC9 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Limber Jim Wood and Planting (2018, includes Plant Skydd Elk Browse Control)	2	0%	15%	0	0.3
Total Project Length	2			0	0.3
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.3				
Total Stream Miles (Denominator)	3.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	8.3%				

UGC9 - LF 4.2 (LWD Recruitment)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Limber Jim Wood and Planting (2018, includes Plant Skydd Elk Browse Control)	2	0%	8%	0	0.15
Total Project Length	2			0	0.15
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.15				
Total Stream Miles (Denominator)	3.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	4.2%				

**UGC9 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Limber Jim Wood and Planting (2018, beaver dam analogues, spanner logs)	2	45%	45%	0.9	0.9
Total Project Length	2			0.9	0.9
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0.9				
Total Stream Miles Affected (Weighted for 2033)	0.9				
Total Stream Miles (Denominator)	3.6 mi.				
% Uplift (2018)	25.0%				
% Uplift (2033)	25.0%				

**UGC9 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Limber Jim Road Decommissioning (2017)	0.82	0%	10%	0	0.082
Limber Jim Wood and Planting (2018, includes Plant Skydd Elk Browse Control)	2	0%	5%	0	0.1
Total Project Length	2.82			0	0.182
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.182				
Total Stream Miles (Denominator)	3.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	5.1%				

**UGC9 - LF 8.1 (Water Quality: Temperature)**



<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Limber Jim Wood and Planting (2018, includes Plant Skydd Elk Browse Control)	2	0%	5%	0	0.1
Total Project Length	2			0	0.1
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.1				
Total Stream Miles (Denominator)	3.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	2.8%				

**UGS4 Upper Grande Ronde River Mainstem - Upstream End of Grande Ronde Valley to Meadow Creek**

## Sum of Revised Weights

100%

0%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Bookends	2015 Low Bookends	Revised 2015 Low Bookends
UGS4	4.1	4%	13%	14%	1%	50	50	
UGS4	4.2	4%	12%	10%	-2%	50	50	
ADDED	5.1	4%	0%	10%	10%			50
ADDED	5.2	4%	0%	10%	10%			50
UGS4	6.1	4%	10%	10%	0%	50	50	
UGS4	6.2	4%	15%	15%	0%	50	50	
UGS4	7.2	4%	10%	5%	-5%	70	70	
UGS4	8.1	4%	20%	25%	5%	40	40	
UGS4	9.2	4%	20%	1%	-19%	50	50	

Panel decided that AU weight should remain unchanged.

UGS4

Upper Grande Ronde River Mainstem - Upstream End of Grande Ronde Valley to Meadow Creek

Stream Miles of Steelhead Use	14.7 mi	(used as denominator in uplift calculation)
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UGS4 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	14.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS4 - LF 4.1 (Riparian Vegetation)

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>	
Bird Track Springs (2018)	1.59		0%	15%	0	0.2385
Total Project Length	1.59				0	0.2385
Total # Projects	1					
Total Stream Miles Affected (Weighted for 2018)	0					
Total Stream Miles Affected (Weighted for 2033)	0.2385					
Total Stream Miles (Denominator)	14.7 mi.					
% Uplift (2018)	0.0%					
% Uplift (2033)	1.6%					

**UGS4 - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Bird Track Springs (2018)	1.59		0%	8%	0
Total Project Length	1.59				0
Total # Projects	1				0.11925
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.11925				
Total Stream Miles (Denominator)	14.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.8%				

**UGS4 - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Bird Track Springs (2018)	1.59		75%	90%	1.1925
Total Project Length	1.59				1.431
Total # Projects	1				1.1925
Total Miles Affected (Weighted for 2018)	1.1925				
Total Miles Affected (Weighted for 2033)	1.431				
Total Miles (Denominator)	14.7 mi.				1.91 miles of side channel proposed
% Uplift (2018)	8.1%				
% Uplift (2033)	9.7%				

**UGS4 - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Bird Track Springs (2018)	1.59		75%	90%	1.1925
Total Project Length	1.59				1.431
Total # Projects	0				1.1925

Total Miles Affected (Weighted for 2018) 1.1925  
Total Miles Affected (Weighted for 2033) 1.431  
Total Stream Miles (Denominator) 14.7 mi.

% Uplift (2018)	8.1%
% Uplift (2033)	9.7%

**UGS4 - LF 6.1 (Channel Structure and Form: Bed and Channel Form)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>		<u>2033 %</u>	<u>Realized</u>	<u>Realized</u>
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>		<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Bird Track Springs (2018)	1.59		75%	90%	1.1925	1.431
Total Project Length	1.59				1.1925	1.431
Total # Projects	1					

Total Stream Miles Affected (Weighted for 2018) 1.1925  
Total Stream Miles Affected (Weighted for 2033) 1.431  
Total Stream Miles (Denominator) 14.7 mi.

% Uplift (2018)	8.1%
% Uplift (2033)	9.7%

**UGS4 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>		<u>2033 %</u>	<u>Realized</u>	<u>Realized</u>
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>		<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Bird Track Springs (2018)	1.59		75%	90%	1.1925	1.431
Total Project Length	1.59				1.1925	1.431
Total # Projects	1					

Total Stream Miles Affected (Weighted for 2018) 1.1925  
Total Stream Miles Affected (Weighted for 2033) 1.431  
Total Stream Miles (Denominator) 14.7 mi.

% Uplift (2018)	8.1%
% Uplift (2033)	9.7%

**UGS4 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Bird Track Springs (2017)	1.59	50%	60%	0.795	0.954
Total Project Length	1.59			0.795	0.954
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0.795				
Total Stream Miles Affected (Weighted for 2033)	0.954				
Total Stream Miles (Denominator)	14.7 mi.				
<b>% Uplift (2018)</b>	<b>5.4%</b>				
<b>% Uplift (2033)</b>	<b>6.5%</b>				

**UGS4 - LF 8.1 (Water Quality: Temperature)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Bird Track Springs (2017)	1.59		0% 10%	0	0.159
Total Project Length	1.59			0	0.159
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.159				
Total Stream Miles (Denominator)	14.7 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>1.1%</b>				

**UGS4 - LF 9.2 (Water Quantity: Decreased)**

No Actions

UGS5      Lookingglass Creek and Tributaries

Stream Miles of Steelhead Use	51.5 mi	(used as denominator in uplift calculation)
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UGS5 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	51.5 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS5 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Lookingglass Property Acquisition	3		0%	0	0
Total Project Length	3			0	0
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	51.5 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS5 - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Lookingglass Property Acquisition	3	0%	0%	0	0
Total Project Length	3			0	0
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	51.5 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS5 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Lookingglass Property Acquisition	3	0%	0%	0	0
Total Project Length	3			0	0
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	51.5 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				



UGS8

Willow Creek and Tributaries

		(used as denominator in uplift calculation)
Stream Miles of Steelhead Use	64.7 mi	

UGS8 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	64.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS8 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Willow Creek OAF (2016)	5.52	0%	15%	0	0.828
Dry Creek Restoration Project (2018)	0.21	0%	15%	0	0.0315
Total Project Length	5.73			0	0.8595
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.8595				
Total Stream Miles (Denominator)	64.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	1.3%				

**UGS8 - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Realized Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Willow Creek OAF (2016)	5.52	0%	8%	0	0.414
Dry Creek Restoration Project (2018)	0.21	0%	8%	0	0.01575
Total Project Length	5.73			0	0.42975
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.42975				
Total Stream Miles (Denominator)	64.7 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>0.7%</b>				

**UGS8 - LF 6.1 (Channel Structure and Form: Bed and Channel Form)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Realized Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Dry Creek Restoration Project (2018)	0.21	50%	50%	0.105	0.105
Total Project Length	0.21			0.105	0.105
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0.105				
Total Stream Miles Affected (Weighted for 2033)	0.105				
Total Stream Miles (Denominator)	64.7 mi.				
<b>% Uplift (2018)</b>	<b>0.2%</b>				
<b>% Uplift (2033)</b>	<b>0.2%</b>				

**UGS8 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Realized Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Dry Creek Restoration Project (2018)	0.21	89%	89%	0.186666667	0.186666667

Total Project Length	0.21	0.18666667	0.18666667
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	0.1867		
Total Stream Miles Affected (Weighted for 2033)	0.1867		
Total Stream Miles (Denominator)	64.7 mi.		
<b>% Uplift (2018)</b>	<b>0.3%</b>		
<b>% Uplift (2033)</b>	<b>0.3%</b>		

UGS8 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Realized Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Willow Creek OAF (2016)	5.52	0%	8%	0	0.414
Dry Creek Restoration Project (2018)	0.21	10%	18%	0.021	0.0378
Total Project Length	5.73			0.021	0.4518
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0.021				
Total Stream Miles Affected (Weighted for 2033)	0.4518				
Total Stream Miles (Denominator)	64.7 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>0.7%</b>				

UGS8 - LF 8.1 (Water Quality: Temperature)

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Realized Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Willow Creek OAF (2016)	5.52	0%	5%	0	0.276
Dry Creek Restoration Project (2018)	0.21	0%	5%	0	0.0105
Total Project Length	5.73			0	0.2865
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.2865				
Total Stream Miles (Denominator)	64.7 mi.				

% Uplift (2018)	0.0%
% Uplift (2033)	0.4%

UGS8 - LF 9.2 (Water Quantity: Decreased Water Quantity)

Action	<u>Leases</u>						<u>2018-2033 Flow Acquired/Leased</u>
	<u>Permanent Acquisition</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2018 Weighting Factor</u>	<u>Weighted CFS (2018)</u>	
No Action						#DIV/0!	
<b>Total</b>	0	0	0	0		#DIV/0!	0
<b>Average of leases ==&gt; 0.0</b>							
Weighted Total (2018)	#DIV/0!	cfs					
Total # Projects	0						
Denominator	30	cfs	ODFW instream Flow target (30 cfs). 95% exceedance flow is 25 cfs.				
<b>% Uplift (2018)</b>	<b>#DIV/0!</b>						

Transaction Name	certificate	lease	priority	term of deal	instream dates	certificated rate	final order rate at POD	final order rate at 10th St gage	final order rate at Davis Dam	final order rate below Davis Dams
Sheehy IL	49739	IL-1402	1867	2014-2016	7/1-10/30	1.34	0.67	0.53	0.53	0.53
Ricker IL/TLT*	6181	IL-1285	1864	2013-2017, 2018-203	7/1-10/30	0.79	0.39	0.31	0.31	0.31
Ricker new IL/TLT*	6181	IL-1404	1864	2014-2018, 2019-203	7/2-10/31	0.83	0.33	0.33	0.33	0.33
Charlson IL/TLT*	81811	IL-1284	1870	2013-2017,2018-202	7/1-10/30	0.94	0.47	0.47	0.37	0.37
Schubert IL	6274,6489	IL-1385	1870	2014-2018	6/1-9/30	0.31	0.15	0.12	0.12	0.06

Priority Date	Final order rate below Davis Dams [cfs]
Senior to 1870	1.17
1870 and senior	1.6

UGS9A Lower Catherine Creek and Tributaries (Mainstem Migration Corridor Only)

Stream Miles of Steelhead Use

36 mi

(used as denominator in uplift calculation)

UGS9A - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS9A - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS9A - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS9A - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Miles Affected (Weighted for 2018)	0				
Total Miles Affected (Weighted for 2033)	0				
Total Miles (Denominator)	36 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS9A - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
				0	0
Total Project Length	0			0	0

Total # Projects	0
Total Miles Affected (Weighted for 2018)	0
Total Miles Affected (Weighted for 2033)	0
Total Stream Miles (Denominator)	36 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

***UGS9A - LF 6.1 (Channel Structure and Form: Bed and Channel Form)***

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

***UGS9A - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)***

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

**UGS9A - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS9A - LF 8.1 (Water Quality: Temperature)**

Benefits from actions listed in LF 9.2 not enough water and solar radiation too high. No uplift  
Existing temperatures exceed 20 degrees between 81% and 100% days (20-22 degrees C) so flow increases are insufficient to cause uplift. No uplift

**UGS9A - LF 9.2 (Water Quantity: Decreased Water Quantity)**

<u>Action</u>	<u>Permanent</u> <u>Acquisition</u>	<u>Leases</u>			<u>2018 Weighting</u> <u>Factor</u>	<u>Weighted</u> <u>CFS</u> <u>(2018)</u>
		<u>2016</u>	<u>2017</u>	<u>2018</u>		
Davis to Mouth		0.76	0.76	0.76	87.0%	0.66
Boyd Little Creek SSL		0.3	0.3	0.3	7.0%	0.02
Becker Little Creek Permanent Transfer		0.21	0.21	0.21	7%	0.01
D Ricker Lease		0.31	0.31	0.31	13%	0.04
New Ricker Lease/TLT		0.34	0.34	0.34	13%	0.04
Southern Cross Permanent Transfer		0	1.075	1.075	13%	0.09
CC44 Pipeline and Consolidation		0.6	0.6	0.6	13%	0.08
Charlson IL/TLT*		0.47	0.47	0.47	13%	0.06
Sheehy Lease		0.53	0	0	13%	0.02
D Schubert (RM16.5-12)		0.12	0.12	0	13%	0.01



GRCC TM (Malmberg, verify w TFT) (RM 15-11)		0.25	0.25	0.25	13%	0.03
<b>Total</b>	<b>0</b>	<b>2.83</b>	<b>3.675</b>	<b>3.555</b>		<b>1.08</b>

*Average of leases*  
==> 3.4

Weighted Total (2018) 1.1 cfs  
Total # Projects 1  
Denominator 30 cfs

ODFW instream Flow target (30 cfs). 95% exceedance flow is 25 cfs.

**% Uplift (2018)** **3.6%**

UGS9B Lower Catherine Creek and Tributaries (contributing area and tributaries only)

Stream Miles of Steelhead Use	36 mi	(used as denominator in uplift calculation)
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UGS9B - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS9B - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS9B - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS9B - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Miles Affected (Weighted for 2018)	0				
Total Miles Affected (Weighted for 2033)	0				
Total Miles (Denominator)	36 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS9B - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0

Total # Projects	0
Total Miles Affected (Weighted for 2018)	0
Total Miles Affected (Weighted for 2033)	0
Total Stream Miles (Denominator)	36 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

UGS9B - LF 6.1 (Channel Structure and Form: Bed and Channel Form)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

UGS9B - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

UGS9B - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS9B - LF 8.1 (Water Quality: Temperature)

Benefits from actions listed in LF 9.2 not enough water and solar radiation too high. No uplift  
Existing temperatures exceed 20 degrees between 81% and 100% days (20-22 degrees C) so flow increases are insufficient to cause uplift. No uplift

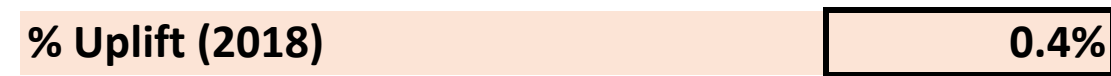
UGS9B - LF 9.2 (Water Quantity: Decreased Water Quantity)

Action	Permanent Acquisition	Leases			2018 Weighting Factor	Weighted CFS (2018)
		2016	2017	2018		
Boyd Little Creek SSL		0.3	0.3	0.3	6.0%	0.02
Becker Little Creek Permanent Transfer		0.21	0.21	0.21	6%	0.01
Total	0	0.21	0.51	0.51		0.03

Average of leases ==> 0.4

Weighted Total (2018) 0.0 cfs  
Total # Projects 2  
Denominator 7.5 cfs

Base flow of Little Creek based on it having ~25% flow of Cath. Creek (NHD Vogel Method)



UGS10A Middle Catherine Creek and Tributaries (Pyles Cr. to Swackhammer Diversion)

Stream Miles of Steelhead Use	3.7 mi	(used as denominator in uplift calculation)
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UGS10A - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	3.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS10A - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
CC38 Habitat Enhancement Project (2017)	0.32		0%15%	0	0.05
Total Project Length	0.3			0	0.048238636
Total # Projects	1.0				
Total Stream Miles Affected (Weighted for 2018)	0.0				
Total Stream Miles Affected (Weighted for 2033)	0.05				
Total Stream Miles (Denominator)	3.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	1.3%				

**UGS10A - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement</u>	<u>2033 % Improvement</u>	<u>Realized</u>	
		<u>(prorating factor)</u>	<u>(prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Change in 2033 (mi)</u>
CC38 Habitat Enhancement Project (2017)	0.32	0%	8%	0.00	0.02
Total Project Length	0.32			0.00	0.02
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.024119318				
Total Stream Miles (Denominator)	3.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.7%				

**UGS10A - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement</u>	<u>2033 % Improvement</u>	<u>Realized</u>	
		<u>(prorating factor)</u>	<u>(prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Change in 2033 (mi)</u>
CC38 Habitat Enhancement Project (2017)	0.11	25%	30%	0.03	0.03
Total Project Length	0.11			0.03	0.03
Total # Projects	1				
Total Miles Affected (Weighted for 2018)	0.028409091				
Total Miles Affected (Weighted for 2033)	0.034090909				
Total Miles (Denominator)	3.7 mi.				
% Uplift (2018)	0.8%				
% Uplift (2033)	0.9%				

**UGS10A - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement</u>	<u>2033 % Improvement</u>	<u>Realized</u>	
		<u>(prorating factor)</u>	<u>(prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Change in 2033 (mi)</u>
CC38 Habitat Enhancement Project (2017)	0.02	25%	30%	0.004734848	0.005681818
Total Project Length	0.02			0.004734848	0.005681818
Total # Projects	0				



Total Miles Affected (Weighted for 2018)	0.004734848
Total Miles Affected (Weighted for 2033)	0.005681818
Total Stream Miles (Denominator)	3.7 mi.

% Uplift (2018)	0.1%
% Uplift (2033)	0.2%

UGS10A - LF 6.1 (Channel Structure and Form: Bed and Channel Form)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized	
				Realized Change in 2018 (mi)	Change in 2033 (mi)
CC38 Habitat Enhancement Project (2017)	0.23	15%	15%	0.034005682	0.034005682
Total Project Length	0.23			0.03	0.03
Total # Projects	1				

Total Stream Miles Affected (Weighted for 2018)	0.03
Total Stream Miles Affected (Weighted for 2033)	0.03
Total Stream Miles (Denominator)	3.7 mi.

% Uplift (2018)	0.9%
% Uplift (2033)	0.9%

UGS10A - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized	
				Realized Change in 2018 (mi)	Change in 2033 (mi)
CC38 Habitat Enhancement Project (2017)	0.32	78%	78%	0.3	0.3
Total Project Length	0.321590909			0.3	0.3
Total # Projects	1				

Total Stream Miles Affected (Weighted for 2018)	0.250840909
Total Stream Miles Affected (Weighted for 2033)	0.250840909
Total Stream Miles (Denominator)	3.7 mi.

% Uplift (2018)	6.8%
% Uplift (2033)	6.8%

**UGS10A - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement</u>	<u>2033 % Improvement</u>	<u>Realized Change in</u>	
		<u>(prorating factor)</u>	<u>(prorating factor)</u>	<u>2018 (mi)</u>	<u>Change in 2033 (mi)</u>
CC38 Habitat Enhancement Project (2017)	0.32	28%	36%	0.1	0.1
Total Project Length	0.32			0.1	0.1
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0.090045455				
Total Stream Miles Affected (Weighted for 2033)	0.115772727				
Total Stream Miles (Denominator)	3.7 mi.				
% Uplift (2018)	2.4%				
% Uplift (2033)	3.1%	The 2033 estimate in the Taurus database includes an additional 2.0% uplift for lookback projects for a total uplift of 5.1% (50.8%).			

**UGS10A - LF 8.1 (Water Quality: Temperature)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement</u>	<u>2033 % Improvement</u>	<u>Realized Change in</u>	
		<u>(prorating factor)</u>	<u>(prorating factor)</u>	<u>2018 (mi)</u>	<u>Change in 2033 (mi)</u>
				0	0

Percent summer days (July 20 - Aug 31) are 100% exceedance of 20 degrees C (precludes spawning). Background temperatures are too hot for flow increases to have measurable effect. No uplift.

**UGS10A - LF 8.2 (Water Quality: Oxygen)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement</u>	<u>2033 % Improvement</u>	<u>Realized Change in</u>	
		<u>(prorating factor)</u>	<u>(prorating factor)</u>	<u>2018 (mi)</u>	<u>Change in 2033 (mi)</u>
No Action				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	3.7 mi.				

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

UGS10A - LF 8.4 (Water Quality: Turbidity)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	3.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS10A - LF 9.2 (Water Quantity: Decreased Water Quantity)

Action	Leases				2018 Weighting Factor	Weighted CFS (2018)
	Permanent Acquisition	2016	2017	2018		
D Ricker Lease		0.31	0.31	0.31	100%	0.31
New Ricker Lease/TLT		0.34	0.34	0.34	100%	0.34
Southern Cross Permanent Transfer	1.075	0	1.075	1.075	100%	0.72
CC44 Pipeline and Consolidation		0.6	0.6	0.6	100%	0.60
Charlson IL/TLT*		0.47	0.47	0.47	80%	0.38
Sheehy Lease		0.53	0	0	80%	0.14
D Schubert (RM16.5-12)		0.12	0.12	0	80%	0.06
GRCC TM (Malmberg, verify w TFT) (RM 15-11)		0.25	0.25	0.25	100%	0.25
Total	1.075	2.62	3.165	3.045		2.80
Average of leases ==> 2.9						
Weighted Total (2018)	2.8 cfs					
Total # Projects	1					
Denominator	30 cfs	ODFW instream Flow target (30 cfs). 95% exceedance flow is 25 cfs.				

% Uplift (2018)

9.3%

Transaction Name	certificate	lease	priority	term of deal	instream dates	certificate	final order rate at POD	final order rate at 10th St gage	final order rate at Davis Dam	final order rate below Davis Dams
Sheehy IL	49739	IL-1402	1867	2014-2016	7/1-10/30	1.34	0.67	0.53	0.53	0.53
Ricker IL/TLT*	6181	IL-1285	1864	2013-2017, 2018-203	7/1-10/30	0.79	0.39	0.31	0.31	0.31
Ricker new IL/TLT*	6181	IL-1404	1864	2014-2018, 2019-203	7/2-10/31	0.83	0.33	0.33	0.33	0.33
Charlson IL/TLT*	81811	IL-1284	1870	2013-2017,2018-202	7/1-10/30	0.94	0.47	0.47	0.37	0.37
Schubert IL	6274,6489	IL-1385	1870	2014-2018	6/1-9/30	0.31	0.15	0.12	0.12	0.06

UGS10B Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks

Stream Miles of Steelhead Use	23 mi	(used as denominator in uplift calculation)
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UGS10B - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
CC Adult Weir (2018)	12.4	50%	50%	6.2	6.2
Total Project Length	12.4			6.2	6.2
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	6.2				
Total Stream Miles Affected (Weighted for 2033)	6.2				
Total Stream Miles (Denominator)	23 mi.				
% Uplift (2018)	27.0%				
% Uplift (2033)	27.0%				

UGS10B - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
CC44 Phase 4 (2016)	0.53	0%	15%	0	0.0795
Hall Ranch (2017)	1	0%	15%	0	0.15
Southern Cross (2016)	0.8	0%	15%	0	0.12
Ricker Property (CC42)	0.67	0%	15%	0	0.1005
Total Project Length	3			0	0.45
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.45				
Total Stream Miles (Denominator)	23 mi.				
% Uplift (2018)	0.0%				

% Uplift (2033)

2.0%

UGS10B - LF 4.2 (LWD Recruitment)

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)	Improvement (prorating factor)	Realized Change in 2018 (mi)	Change in 2033 (mi)
CC44 Phase 4 (2016)	0.53	0%	8%	0	0.03975
Hall Ranch (2017)	1	0%	8%	0	0.075
Southern Cross (2016)	0.8	0%	8%	0	0.06
Ricker Property (CC42)	0.67	0%	8%	0	0.05025
Total Project Length	3			0	0.225
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.225				
Total Stream Miles (Denominator)	23 mi.				

% Uplift (2018)

0.0%

% Uplift (2033)

1.0%

UGS10B - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)	Improvement (prorating factor)	Realized Change in 2018 (mi)	Change in 2033 (mi)
CC44 Phase 4 (2016)	0.14	25%	25%	0.0	0.0
Hall Ranch (2017)	0.50	50%	50%	0.3	0.3
Southern Cross (2016)	2.19	75%	75%	1.6	1.6
Ricker Property (CC42)	0.67	75%	75%	0.5	0.5
Total Project Length	3.51			2.4	2.4
Total # Projects	4				
Total Miles Affected (Weighted for 2018)	2.4				
Total Miles Affected (Weighted for 2033)	2.4				
Total Miles (Denominator)	23 mi.				

% Uplift (2018)

10.6%

% Uplift (2033)

10.6%

**UGS10B - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Hall Ranch (2017)	1	23%	23%	0.23	0.23
Southern Cross (2016)	0.8	75%	75%	0.60	0.60
Ricker Property (CC42)	0.67	75%	75%	0.50	0.50
Total Project Length	0.67			1.33	1.33
Total # Projects	1				
Total Miles Affected (Weighted for 2018)	1.33				
Total Miles Affected (Weighted for 2033)	1.33				
Total Stream Miles (Denominator)	23 mi.				
% Uplift (2018)	5.8%				
% Uplift (2033)	5.8%				

**UGS10B - LF 6.1 (Channel Structure and Form: Bed and Channel Form)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
CC44 Phase 4 (2016)	0.53	15%	15%	0.0795	0.0795
Hall Ranch (2017)	1	25%	25%	0.25	0.25
Southern Cross (2016)	0.8	90%	90%	0.72	0.72
Ricker Property (CC42)	0.67	50%	50%	0.335	0.335
Total Project Length	3			1.3845	1.3845
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	1.3845				
Total Stream Miles Affected (Weighted for 2033)	1.3845				
Total Stream Miles (Denominator)	23 mi.				
% Uplift (2018)	6.0%				
% Uplift (2033)	6.0%				

**UGS10B - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
CC44 Phase 4 (2016)	0.53	83%	83%	0.4399	0.4399
Hall Ranch (2017)	1	100%	100%	1	1
Southern Cross (2016)	0.8	100%	100%	0.8	0.8
Ricker Property (CC42)	0.67	100%	100%	0.67	0.67
Total Project Length	3			2.9099	2.9099
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	2.9099				
Total Stream Miles Affected (Weighted for 2033)	2.9099				
Total Stream Miles (Denominator)	23 mi.				
<b>% Uplift (2018)</b>	<b>12.7%</b>				
<b>% Uplift (2033)</b>	<b>12.7%</b>				

**UGS10B - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
CC44 Phase 4 (2016)	0.53	5%	13%	0.0265	0.06625
Hall Ranch (2017)	1	0%	8%	0	0.075
Southern Cross (2016)	0.8	50%	70%	0.4	0.56
Ricker Property (CC42)	0.67	25%	33%	0.1675	0.21775
Total Project Length	0.67			0.594	0.919
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0.594				
Total Stream Miles Affected (Weighted for 2033)	0.919				
Total Stream Miles (Denominator)	23 mi.				
<b>% Uplift (2018)</b>	<b>2.6%</b>				
<b>% Uplift (2033)</b>	<b>4.0%</b>				

**UGS10B - LF 8.1 (Water Quality: Temperature)**



Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)	Improvement (prorating factor)	Change in 2018 (mi)	Change in 2033 (mi)
CC44 Phase 4 (2016)	0.53	0%	5%	0	0.0265
Hall Ranch (2017)	0.5	0%	5%	0	0.025
Southern Cross (2016)	0.8	0%	5%	0	0.04
Ricker Property (CC42)	0.67	0%	5%	0	0.0335
Total Project Length	2.5			0	0.125
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.125				
Total Stream Miles (Denominator)	23 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.5%				

Panel estimates combined temperature improvement of 0.5 degree C.

Note on temperature benefits from flow increase: Percent summer days (July 20 - Aug 31) are 27% exceedance of 20 degrees C. Background temperatures are too hot for flow increases to have measurable effect. Input water is not cool water.

UGS10B - LF 9.2 (Water Quantity: Decreased Water Quantity)

Action	Permanent Acquisition	Leases			2018 Weighting Factor	Weighted CFS (2018)
		2016	2017	2018		
D Ricker Lease		0.39	0.39	0.39	14%	0.05
New Ricker Lease/TLT		0.42	0.42	0.42	14%	0.06
Southern Cross Permanent Transfer		0	1.075	1.075	28%	0.20
CC44 Pipeline and Consolidation		0.6	0.6	0.6	28%	0.17
Total	0	1.41	2.485	2.485		0.48
Average of leases				2.1		
==>						
Weighted Total (2018)	0.5 cfs					
Total # Projects	4					
Denominator	30 cfs					
% Uplift (2018)	1.6%					

ODFW instream Flow target (30 cfs). 95% exceedance flow is 25 cfs.

Transaction Name	certificate	lease	priority	term of deal	instream dates	certificated rate	final order rate at POD	final order rate at 10th St gage	final order rate at Davis Dam	final order rate below Davis Dams
Sheehy IL	49739	IL-1402	1867	2014-2016	7/1-10/30	1.34	0.67	0.53	0.53	0.53
Ricker IL/TLT*	6181	IL-1285	1864	2013-2017, 2018-203	7/1-10/30	0.79	0.39	0.31	0.31	0.31
Ricker new IL/TLT*	6181	IL-1404	1864	2014-2018, 2019-203	7/2-10/31	0.83	0.33	0.33	0.33	0.33
Charlson IL/TLT*	81811	IL-1284	1870	2013-2017,2018-2027	7/1-10/30	0.94	0.47	0.47	0.37	0.37
Schubert IL	6274,6489	IL-1385	1870	2014-2018	6/1-9/30	0.31	0.15	0.12	0.12	0.06

Priority Date	Final order rate below Davis Dams [cfs]
Senior to 1870	1.17
1870 and senior	1.6

## UGS13A Five Points Creek and Tributaries

## Sum of Revised Weights

100%

0%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Bookend	2015 Low Bookend	Revised 2015 Low Bookend
UGS13A	1.1	7%	5%	5%	0%	80	84.8	
UGS13A	4.1	7%	15%	15%	0%	75	75	
UGS13A	4.2	7%	10%	15%	5%	75	75	
ADDED	5.1	7%	0%	5%	5%			50
ADDED	5.2	7%	0%	5%	5%			50
UGS13A	6.1	7%	5%	5%	0%	70	70	
UGS13A	6.2	7%	25%	20%	-5%	70	70.7	
UGS13A	7.2	7%	10%	5%	-5%	70	70	
UGS13A	8.1	7%	20%	20%	0%	80	80	
UGS13A	9.2	7%	10%	5%	-5%	80	80	

Panel decided that AU weight should remain unchanged.

UGS13A      Five Points Creek and Tributaries

Stream Miles of Steelhead Use	43.5 mi	(used as denominator in uplift calculation)
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UGS13A - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	43.5 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS13A - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Five Points Wood and Planting (2016)	7		0%      15%	0	1.05
Total Project Length	7			0	1.05
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	1.05				
Total Stream Miles (Denominator)	43.5 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	2.4%				

**UGS13A - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Five Points Wood and Planting (2016)	7		0%	8%	0
Total Project Length	7				0
Total # Projects	1				0.525
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.525				
Total Stream Miles (Denominator)	43.5 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>1.2%</b>				

**UGS13A - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Five Points Wood and Planting (2016)	7		0%	5%	0
Total Project Length	7				0
Total # Projects	1				0.35
Total Miles Affected (Weighted for 2018)	0				
Total Miles Affected (Weighted for 2033)	0.35				
Total Miles (Denominator)	43.5 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>0.8%</b>				

**UGS13A - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Five Points Wood and Planting (2016)	7		0%	5%	0
Total Project Length	7				0
Total # Projects	0				0.35

Total Miles Affected (Weighted for 2018) 0  
Total Miles Affected (Weighted for 2033) 0.35  
Total Stream Miles (Denominator) 43.5 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	0.8%

***UGS13A - LF 6.1 (Channel Structure and Form: Bed and Channel Form)***

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>	
Five Points Wood and Planting (2016)	7		0%	10%	0	0.7
Total Project Length	7				0	0.7
Total # Projects	1					

Total Stream Miles Affected (Weighted for 2018) 0  
Total Stream Miles Affected (Weighted for 2033) 0.7  
Total Stream Miles (Denominator) 43.5 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	1.6%

***UGS13A - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)***

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Realized Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Five Points Wood and Planting (2016)	7	45%	45%	3.15	3.15
Total Project Length	7			3.15	3.15
Total # Projects	1				

Total Stream Miles Affected (Weighted for 2018) 3.15  
Total Stream Miles Affected (Weighted for 2033) 3.15  
Total Stream Miles (Denominator) 43.5 mi.

% Uplift (2018)	7.2%
% Uplift (2033)	7.2%

**UGS13A - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Five Points Wood and Planting (2016, ATV use exclusion)	0.25	0%	2%	0	0.005
Five Points Wood and Planting (2016, planting)	7	0%	8%	0	0.525
Total Project Length	7.25			0	0.53
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.53				
Total Stream Miles (Denominator)	43.5 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	1.2%				

**UGS13A - LF 8.1 (Water Quality: Temperature)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Five Points Wood and Planting (2016, planting)	7	0%	5%	0	0.35
Total Project Length	7			0	0.35
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.35				
Total Stream Miles (Denominator)	43.5 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.8%				

**UGS13A- LF 9.2 (Water Quantity: Decreased Water Quantity)**

<u>Action</u>	<u>Leases</u>			
	<u>Permanent</u> <u>Acquisition</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
No Actions				
Total	0	0	0	0

Total  
Total # Projects  
Denominator

#REF!  
cfs

0.0 cfs

*Average of leases*  
==>

0.0

% Uplift (2018)

#DIV/0!



## UGS16    Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries

## Sum of Revised Weights

100%

0%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Bookend	2015 Low Bookend	Atlas Weight s for reference
UGS16	1.1	11%	10%	10%	0%	85	85.1	
UGS16	4.1	11%	15%	15%	0%	45	45	
UGS16	4.2	11%	10%	10%	0%	50	50	
ADDED	5.1	11%	0%	5%	5%			50
ADDED	5.2	11%	0%	5%	5%			50
UGS16	6.1	11%	10%	10%	0%	50	52.7	
UGS16	6.2	11%	15%	15%	0%	45	48.4	
UGS16	7.2	11%	15%	10%	-5%	40	40	
UGS16	8.1	11%	15%	15%	0%	45	45	
UGS16	9.2	11%	10%	5%	-5%	70	70	

Panel decided that AU weight should remain unchanged.

UGS14 Meadow Creek and Tribs except Dark Canyon and McCoy Creeks

Stream Miles of Steelhead Use

63.7 mi

(used as denominator in uplift calculation)

UGS14 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	63.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS14 - LF 4.1 (Riparian Vegetation)

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Cunha Meadow Conservation Easement Acquisition (Exclusion fencing)	1	0%	15%	0	0.15
Total Project Length	1			0	0.15
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.15				
Total Stream Miles (Denominator)	63.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.2%				

The Taurus value reflects this 0.2% uplift and an additional 3.2% uplift from lookback projects contributing to an overall uplift of 63.4% in 2033.

UGS14 - LF 4.2 (LWD Recruitment)

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Cunha Meadow Conservation Easement Acquisition (Exclusion fencing)	1	0%	8%	0	0.075
Total Project Length	1			0	0.075
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.075				
Total Stream Miles (Denominator)	63.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.1%	The Taurus value reflects this 0.1% uplift and an additional 1.6% uplift from lookback projects contributing to an overall uplift of 61.7% in 2033.			

**UGS14 - LF 6.1 (Channel Structure and Form: Bed and Channel Form)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	63.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS14 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	63.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS14 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)	Improvement (prorating factor)	Realized Change in 2018 (mi)	Change in 2033 (mi)
Cunha Meadow Conservation Easement Acquisition (Exclusion fencing)	1	0%	8%	0	0.075
Total Project Length	1			0	0.075
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.075				
Total Stream Miles (Denominator)	63.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.1%	The panel projected an uplift of 71.6% total for look back and look forward actions where benefits were not expected to accrue until 2033.			

UGS14 - LF 8.1 (Water Quality: Temperature)

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)	Improvement (prorating factor)	Realized Change in 2018 (mi)	Change in 2033 (mi)
Cunha Meadow Conservation Easement Acquisition (Exclusion fencing)	1	0%	5%	0	0.05
Total Project Length	1			0	0.05
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.05				
Total Stream Miles (Denominator)	63.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.1%				

UGS14- LF 9.2 (Water Quantity: Decreased Water Quantity)

Action	Leases			
	Permanent Acquisition	2016	2017	2018
No Actions				
Total	0	0	0	0
Average of leases ==>				0.0
Total	0.0 cfs			

Total # Projects  
Denominator

#REF!

cfs

% Uplift (2018)

#DIV/0!

UGS15    McCoy Creek, Dark Canyon, and Tributaries

Stream Miles of Steelhead Use	39 mi	(used as denominator in uplift calculation)
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UGS15 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	39 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS15 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Dark Canyon Phase 1 (2018)	3	0%	15%	0	0.45
McCoy Wood and Planting (2018)	2	0%	15%	0	0.3
Dark Canyon Fencing and Spring Development (2016)	2	0%	15%	0	0.3
Cunha Dark Canyon Conservation Easement Acquisition (Exclusion Fencing)	2.5	0%	15%	0	0.375
Total Project Length	9.5			0	1.425
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	1.425				
Total Stream Miles (Denominator)	39 mi.				

<b>% Uplift (2018)</b>	<b>0.0%</b>
<b>% Uplift (2033)</b>	<b>3.7%</b>

**UGS15 - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Dark Canyon Phase 1 (2018)	3	0%	8%	0	0.225
McCoy Wood and Planting (2018)	2	0%	8%	0	0.15
Dark Canyon Fencing and Spring Development (2016)	2	0%	8%	0	0.15
Cunha Dark Canyon Conservation Easement Acquisition (Exclusion Fencing)	2.5	0%	8%	0	0.1875
Total Project Length	9.5			0	0.7125
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.7125				
Total Stream Miles (Denominator)	39 mi.				

<b>% Uplift (2018)</b>	<b>0.0%</b>
<b>% Uplift (2033)</b>	<b>1.8%</b>

**UGS15 - LF 6.1 (Channel Structure and Form: Bed and Channel Form)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Dark Canyon Phase 1 (2018) - LWD Complexes	3	5%	5%	0.15	0.15
McCoy Wood and Planting (2018) - LWD Complexes	2	5%	5%	0.1	0.1
Dark Canyon Fencing and Spring Development (2016)	2	0%	8%	0	0.15
Total Project Length	7			0.25	0.4
Total # Projects	3				
Total Stream Miles Affected (Weighted for 2018)	0.25				
Total Stream Miles Affected (Weighted for 2033)	0.4				
Total Stream Miles (Denominator)	39 mi.				

<b>% Uplift (2018)</b>	<b>0.6%</b>
<b>% Uplift (2033)</b>	<b>1.0%</b>

**UGS15 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Dark Canyon Phase 1 (2018) - LWD Complexes	3	5%	5%	0.15	0.15
McCoy Wood and Planting (2018) - LWD Complexes	2	45%	45%	0.9	0.9
Total Project Length	5			1.05	1.05
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	1.05				
Total Stream Miles Affected (Weighted for 2033)	1.05				
Total Stream Miles (Denominator)	39 mi.				
<b>% Uplift (2018)</b>	<b>2.7%</b>				
<b>% Uplift (2033)</b>	<b>2.7%</b>				

**UGS15 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Dark Canyon Phase 1 (2018)	3	0%	8%	0	0.225
McCoy Wood and Planting (2018)	2	0%	8%	0	0.15
Dark Canyon Fencing and Spring Development (2016)	2	0%	8%	0	0.15
Cunha Dark Canyon Conservation Easement Acquisition (Exclusion Fencing)	2.5	0%	8%	0	0.1875
Total Project Length	9.5			0	0.7125
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.7125				
Total Stream Miles (Denominator)	39 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>1.8%</b>				

**UGS15 - LF 8.1 (Water Quality: Temperature)**



<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Dark Canyon Phase 1 (2018)	3	0%	5%	0	0.15
Dark Canyon Fencing and Spring Development (2016)	2	0%	5%	0	0.1
Cunha Dark Canyon Conservation Easement Acquisition (Exclusion Fencing)	2.5	0%	5%	0	0.125
Total Project Length	7.5			0	0.375
Total # Projects	3				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.375				
Total Stream Miles (Denominator)	39 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	1.0%				

**UGS15- LF 9.2 (Water Quantity: Decreased Water Quantity)**

<u>Action</u>	<u>Permanent Acquisition</u>	<u>Leases</u>		
		<u>2016</u>	<u>2017</u>	<u>2018</u>
No Actions				
Total	0	0	0	0
Average of leases ==>				0.0
Total	0.0 cfs			
Total # Projects	0			
Denominator	cfs	Example: Base Flow		
% Uplift (2018)	#DIV/0!			

UGS16    Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries

Stream Miles of Steelhead Use

110.7 mi

(used as denominator in uplift calculation)

UGS16 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Rock Creek Phase III (Grave Culvert Replacement, 2016)	3	25%	25%	0.75	0.75
Highway 244 Whiskey Creek Culvert (2018)	10	50%	50%	5	5
Total Project Length	13			5.75	5.75
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	5.75				
Total Stream Miles Affected (Weighted for 2033)	5.75				
Total Stream Miles (Denominator)	110.7 mi.				
% Uplift (2018)	5.2%				
% Uplift (2033)	5.2%				

UGS16 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Rock Creek Phase III (2016)	1	0%	15%	0	0.15
Total Project Length	1			0	0.15
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.15				
Total Stream Miles (Denominator)	110.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.1%	The 2033 estimated uplift was added to the 2033 condition of 47% that was determined at a prior expert panel.			

UGC2 - LF 4.2 (LWD Recruitment)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Rock Creek Phase III (2016)	1	0%	8%	0	0.075
Total Project Length	1			0	0.075
Total # Projects	1				

Total Stream Miles Affected (Weighted for 2018) 0  
Total Stream Miles Affected (Weighted for 2033) 0.075  
Total Stream Miles (Denominator) 110.7 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	0.1%

A prior expert panel estimated a 51% function by 2033 based on look back projects, so with an estimated 0.1% increase the total 2033 estimate is 51.1% that is captured in Taurus.

**UGS16 - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)**

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)		Realized Change in 2018 (mi)	Change in 2033 (mi)
Rock Creek Phase III RM 0.5-1.5 (2016)	1	75%	90%	0.75	0.9
Total Project Length	1			0.75	0.9
Total # Projects	1				

Total Miles Affected (Weighted for 2018) 0.75  
Total Miles Affected (Weighted for 2033) 0.9  
Total Miles (Denominator) 110.7 mi. 1.91 miles of side channel proposed

% Uplift (2018)	0.7%
% Uplift (2033)	0.8%

**UGS16 - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)		Realized Change in 2018 (mi)	Change in 2033 (mi)
Rock Creek Phase III RM 0.5-1.5 (2016)	1	75%	90%	0.75	0.9
Total Project Length	1			0.75	0.9
Total # Projects	0				

Total Miles Affected (Weighted for 2018) 0.75  
Total Miles Affected (Weighted for 2033) 0.9  
Total Stream Miles (Denominator) 110.7 mi.

% Uplift (2018)	0.7%
% Uplift (2033)	0.8%

**UGS16 - LF 6.1 (Channel Structure and Form: Bed and Channel Form)**

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)		Realized Change in 2018 (mi)	Change in 2033 (mi)
Rock Creek Phase III RM 0.5-1.5 (2016)	1	75%	90%	0.75	0.9
Total Project Length	1			0.75	0.9
Total # Projects	1				

Total Stream Miles Affected (Weighted for 2018) 0.75  
Total Stream Miles Affected (Weighted for 2033) 0.9  
Total Stream Miles (Denominator) 110.7 mi.

% Uplift (2018)	0.7%
% Uplift (2033)	0.8%

UGS16 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)	Improvement (prorating factor)	Realized Change in 2018 (mi)	Change in 2033 (mi)
Rock Creek Phase III RM 0.5-1.5 (2016)	1	100%	100%	1	1
Total Project Length	1			1	1
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	1				
Total Stream Miles Affected (Weighted for 2033)	1				
Total Stream Miles (Denominator)	110.7 mi.				

% Uplift (2018)	0.9%
% Uplift (2033)	0.9%

UGS16 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)	Improvement (prorating factor)	Realized Change in 2018 (mi)	Change in 2033 (mi)
Rock Creek Phase III RM 0.5-1.5 (2016)	1	50%	60%	0.5	0.6
Total Project Length	1			0.5	0.6
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0.5				
Total Stream Miles Affected (Weighted for 2033)	0.6				
Total Stream Miles (Denominator)	110.7 mi.				

% Uplift (2018)	0.5%
% Uplift (2033)	0.5%

An earlier expert panel calculated 43% function of this limiting factor by 2033. With an additional 0.5% uplift projected for 2033 the total uplift will equal 43.5%

UGS16 - LF 8.1 (Water Quality: Temperature)

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)	Improvement (prorating factor)	Realized Change in 2018 (mi)	Change in 2033 (mi)
Rock Creek Phase III RM 0.5-1.5 (2016)	1	0%	10%	0	0.1
Beaver Creek La Grande Reservoir (2016-2018)	0	0%	0%		
Total Project Length	1			0	0.1
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.1				
Total Stream Miles (Denominator)	110.7 mi.				

% Uplift (2018)	0.0%
% Uplift (2033)	0.1%

UGC2- LF 9.2 (Water Quantity: Decreased Water Quantity)

Leases				
Action	Permanent Acquisition	2016	2017	2018
Beaver Creek Releases		3.5	3.5	3.5
Total	0	3.5	3.5	3.5

Average of leases  
==> 3.5

Total 3.5 cfs  
Total # Projects 1  
Denominator cfs

% Uplift (2018)	0.0%
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Panelists determined no benefit due to timing and minimal amount of release.

UGS17    Upper Grande Ronde River Mainstem, Meadow Creek to Limber Jim Creek

Stream Miles of Steelhead Use

17.8 mi

(used as  
denominator in  
uplift  
calculation)

UGS17 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions					
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	17.8 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS17 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions					
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	17.8 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

An earlier expert panel estimated a 1.7% total uplift to this limiting factor by 2033 from lookback actions, which results in 66.7% by 2033.

UGS17 - LF 4.2 (LWD Recruitment)

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	17.8 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%	An earlier expert panel estimated a 0.8% total uplift to this limiting factor by 2033 from lookback actions, which results in 65.8% by 2033.			

***UGS17 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)***

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Grande Ronde River Large Wood Restoration Complex (2018)	8	25%	25%	2	2
Total Project Length	8			2	2
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	2				
Total Stream Miles Affected (Weighted for 2033)	2				
Total Stream Miles (Denominator)	17.8 mi.				
% Uplift (2018)	11.2%				
% Uplift (2033)	11.2%				

***UGS17 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)***

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Grande Ronde River Large Wood Restoration Complex (2018)	8	0%	10%	0	0.8
Total Project Length	8			0	0.8
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.8				
Total Stream Miles (Denominator)	17.8 mi.				
% Uplift (2018)	0.0%				

% Uplift (2033)

4.5%

UGS17 - LF 8.1 (Water Quality: Temperature)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	17.8 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS17- LF 9.2 (Water Quantity: Decreased Water Quantity)

Action	Leases Permanent Acquisition	2016	2017	2018
No Actions				
Total	0	0	0	0
Average of leases ==>				0.0
Total	0.0 cfs			
Total # Projects	0			
Denominator	cfs	Example: Base Flow		
% Uplift (2018)	#DIV/0!			



## **UGS19 Upper Grande Ronde River Mainstem and Tributaries, Clear Creek to Headwaters**

Sum of Revised Weights

100%

-10%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Bookend	2015 Low Bookend	Atlas Weight s for reference
<b>ADDED</b>	<b>1.1</b>	1%	0%	10%	10%			90
UGS19	4.1	1%	30%	25%	-5%	75	75	
UGS19	4.2	1%	30%	20%	-10%	75	75	
UGS19	6.2	1%	20%	25%	5%	85	85.6	
UGS19	7.2	1%	20%	20%	0%	60	60	

Panel decided that AU weight should remain unchanged.

UGS19 Upper Grande Ronde River Mainstem and Tributaries, Clear Creek to Headwaters

Stream Miles of Steelhead Use	5.4 mi	(used as denominator in uplift calculation)
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UGS19 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Muir Creek Culvert Replacement (2018)	1.5	25%	25%	0.375	0.375
Total Project Length	1.5			0.375	0.375
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0.375				
Total Stream Miles Affected (Weighted for 2033)	0.375				
Total Stream Miles (Denominator)	5.4 mi.				
% Uplift (2018)	6.9%				
% Uplift (2033)	6.9%				

UGS19 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	2.5	0%	15%	0	0.375
Total Project Length	2.5			0	0.375
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.375				
Total Stream Miles (Denominator)	5.4 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	6.9%				

**UGS19 - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	2.5		0%	8%	0
Total Project Length	2.5				0.1875
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.1875				
Total Stream Miles (Denominator)	5.4 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	3.5%				

**UGS19 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	5.4 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS19 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				

Total Stream Miles Affected (Weighted for 2018)	0
Total Stream Miles Affected (Weighted for 2033)	0
Total Stream Miles (Denominator)	5.4 mi.
<b>% Uplift (2018)</b>	<b>0.0%</b>
<b>% Uplift (2033)</b>	<b>0.0%</b>

## UGS20    Limber Jim Creek and Tributaries

## Sum of Revised Weights

100%

0%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Booke nd	2015 Low Booke nd	Atlas Weight s for referen ce
ADDED	1.1	2%	0%	10%	10%			80
UGS20	4.1	2%	20%	20%	0%	75	75	
UGS20	4.2	2%	20%	20%	0%	75	75	
UGS20	6.2	2%	10%	30%	20%	75	75	
UGS20	7.2	2%	20%	20%	0%	75	75	
UGS20	9.2	2%	30%	0%	-30%	70	70	

Panel decided that AU weight should remain unchanged.

UGS20    Limber Jim Creek and Tributaries

Stream Miles of Steelhead Use	8.4 mi	(used as denominator in uplift calculation)
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UGS20 LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
South Fork Limber Jim Creek Culvert (2017)	1.5	25%	25%	0.375	0.375
Limber Jim Creek Culvert (2017)	1.25	25%	25%	0.3125	0.3125
Total Project Length	2.75			0.6875	0.6875
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0.6875				
Total Stream Miles Affected (Weighted for 2033)	0.6875				
Total Stream Miles (Denominator)	8.4 mi.				
% Uplift (2018)	8.2%				
% Uplift (2033)	8.2%				

UGS20 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Limber Jim Wood and Planting (2018, includes Plant Skydd Elk Browse Control)	2	0%	15%	0	0.3
Total Project Length	2			0	0.3
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.3				
Total Stream Miles (Denominator)	8.4 mi.				
% Uplift (2018)	0.0%				

% Uplift (2033)

3.6%

UGS20 - LF 4.2 (LWD Recruitment)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Limber Jim Wood and Planting (2018, includes Plant Skydd Elk Browse Control)	2	0%	8%	0	0.15
Total Project Length	2			0	0.15
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.15				
Total Stream Miles (Denominator)	8.4 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	1.8%				

UGS20 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Limber Jim Wood and Planting (2018, beaver dam analogues, spanner logs)	2	45%	45%	0.9	0.9
Total Project Length	2			0.9	0.9
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0.9				
Total Stream Miles Affected (Weighted for 2033)	0.9				
Total Stream Miles (Denominator)	8.4 mi.				
% Uplift (2018)	10.7%				
% Uplift (2033)	10.7%				

UGS20 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Limber Jim Road Decommissioning (2017)	0.82	0%	10%	0	0.082
Limber Jim Wood and Planting (2018, includes Plant Skydd Elk Browse Control)	2	0%	5%	0	0.1
Total Project Length	2.82			0	0.182
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.182				
Total Stream Miles (Denominator)	8.4 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	2.2%				



UGS21 Fly Creek and Tributaries

Stream Miles of Steelhead Use	31.6 mi	(used as denominator in uplift calculation)
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UGS21 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	31.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS21 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Fly Creek-Smith Fence and Pods (2016)	1.5		0%15%	0	0.225
Total Project Length	1.5			0	0.225
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.225				
Total Stream Miles (Denominator)	31.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.7%				

**UGS21 - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Fly Creek-Smith Fence and Pods (2016)	1.5	0%	8%	0	0.1125
Total Project Length	1.5			0	0.1125
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.1125				
Total Stream Miles (Denominator)	31.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.4%				

**UGS21 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	31.6 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS21 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Fly Creek-Smith Fence and Pods (2016)	0.6	0%	8%	0	0.045
Total Project Length	0.6			0	0.045
Total # Projects	0				

Total Stream Miles Affected (Weighted for 2018)0

Total Stream Miles Affected (Weighted for 2033)0.045

Total Stream Miles (Denominator)31.6 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	0.1%

**UGS21 - LF 8.1 (Water Quality: Temperature)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>	
Fly Creek-Smith Fence and Pods (2016)	1.5		0%	5%	0	0.075
Total Project Length	1.5				0	0.075
Total # Projects	1					
Total Stream Miles Affected (Weighted for 2018)	0					
Total Stream Miles Affected (Weighted for 2033)	0.075					
Total Stream Miles (Denominator)	31.6 mi.					
% Uplift (2018)	0.0%					
% Uplift (2033)	0.2%					

## **UGS22 Sheep Creek and Tributaries**

## Sum of Revised Weights

100%

0%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Booked	2015 Low Booked	Atlas Weights for reference
ADDED	1.1	4%	0%	10%	10%			80
UGS22	4.1	4%	10%	15%	5%	50	50	
UGS22	4.2	4%	10%	15%	5%	60	60	
UGS22	6.2	4%	20%	20%	0%	50	52.4	
UGS22	7.2	4%	30%	20%	-10%	30	30	
UGS22	8.1	4%	30%	20%	-10%	70	70	

UGS22    Sheep Creek and Tributaries

Stream Miles of Steelhead Use	32.1 mi	(used as denominator in uplift calculation)
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UGS22- LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Sheep Creek Culvert (2016, 2 culverts)	5	5%	5%	0.25	0.25
West Chicken Creek Culverts (2 culverts)	2	25%	25%	0.5	0.5
Total Project Length	7			0.75	0.75
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0.75				
Total Stream Miles Affected (Weighted for 2033)	0.75				
Total Stream Miles (Denominator)	32.1 mi.				
% Uplift (2018)	2.3%				
% Uplift (2033)	2.3%				

UGS22 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5	0%	15%	0	0.75
Sheep Creek Exclosure Fence (2017)	3	0%	15%	0	0.45
Total Project Length	8			0	1.2
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	1.2				
Total Stream Miles (Denominator)	32.1 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	3.7%				

UGS22 - LF 4.2 (LWD Recruitment)

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Realized Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5		0%	8%	00.375
Sheep Creek Exclosure Fence (2017)	3		0%	8%	00.225
Total Project Length	8			0	0.6
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.6				
Total Stream Miles (Denominator)	32.1 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	1.9%				

**UGS22 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Realized Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	32.1 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

**UGS22 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Realized Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5		0%	8%	00.375
Sheep Creek Exclosure Fence (2017)	3		0%	8%	00.225
Total Project Length	8			0	0.6
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.6				
Total Stream Miles (Denominator)	32.1 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	1.9%				

**UGS22 - LF 8.1 (Water Quality: Temperature)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5	0%	5%	0	0.25
Sheep Creek Enclosure Fence (2017)	3	0%	5%	0	0.15
Total Project Length	8			0	0.4
Total # Projects	2				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.4				
Total Stream Miles (Denominator)	32.1 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	1.2%	The uplift estimate was revised based on updated mileage for Sheep Creek, resulting in a 1.9% uplift that was added to a 1.4% uplift from look back actions over time.			

CCC2C Lower Catherine Creek (old Grande Ronde River confluence to Pyles Cr)

Stream Miles of Chinook Use

18.3 mi

(used as denominator in uplift calculation)

CCC2C - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	18.3 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

CCC2C - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	18.3 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

CCC2C - LF 4.2 (LWD Recruitment)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				



Total Stream Miles (Denominator)18.3 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

CCC2C - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Miles Affected (Weighted for 2018)	0				
Total Miles Affected (Weighted for 2033)	0				
Total Miles (Denominator)	18.3 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

CCC2C - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0			0	0
Total Miles Affected (Weighted for 2018)	0				
Total Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	18.3 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

CCC2C - LF 6.1 (Channel Structure and Form: Bed and Channel Form)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	18.3 mi.				
% Uplift (2018)	0.0%				

% Uplift (2033)	0.0%
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CCC2C - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	18.3 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

CCC2C - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	18.3 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

CCC2C - LF 8.1 (Water Quality: Temperature)

Benefits from actions listed in LF 9.2 not enough water and solar radiation too high. No uplift  
Existing temperatures exceed 20 degrees between 81% and 100% days (20-22 degrees C) so flow increases are insufficient to cause uplift. No uplift

CCC2C - LF 8.2 (Water Quality: Dissolved Oxygen)

No Actions

CCC2C - LF 9.2 (Water Quantity: Decreased Water Quantity)

Action	Permanent Acquisition	Leases			2018 Weighting Factor	Weighted CFS (2018)
		2016	2017	2018		
Davis to Mouth		0.76	0.76	0.76	87.0%	0.66
Boyd Little Creek SSL		0.3	0.3	0.3	7.0%	0.02
Becker Little Creek Permanent Transfer		0.21	0.21	0.21	7%	0.01

Note during QA following panel: 0.76 cfs matches the value used in the Look Back.

D Ricker Lease		0.31	0.31	0.31	13%	0.04
New Ricker Lease/TLT		0.34	0.34	0.34	13%	0.04
Southern Cross Permanent Transfer		0	1.075	1.075	13%	0.09
CC44 Pipeline and Consolidation		0.6	0.6	0.6	13%	0.08
Charlson IL/TLT*		0.47	0.47	0.47	13%	0.06
Sheehy Lease		0.53	0	0	13%	0.02
D Schubert (RM16.5-12)		0.12	0.12	0	13%	0.01
GRCC TM (Malmberg, verify w TFT) (RM 15-11)		0.25	0.25	0.25	13%	0.03
<b>Total</b>	<b>0</b>	<b>3.89</b>	<b>4.44</b>	<b>4.32</b>		<b>1.08</b>

Average of leases

==> 4.2

Weighted Total (2018)	1.1 cfs
Total # Projects	1
Denominator	30 cfs

ODFW instream Flow target (30 cfs). 95% exceedance flow is 25 cfs.

% Uplift (2018)	3.6%
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CCC3A Middle Catherine Creek (Pyles Cr. To Swackhammer Diversion)

Stream Miles of Chinook Use	3.7 mi	(used as denominator in uplift calculation)
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CCC3A - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	3.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

CCC3A - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
CC38 Habitat Enhancement Project (2017)	0.32		0%15%	0	0.05
Total Project Length	0.3			0	0.048238636
Total # Projects	1.0				
Total Stream Miles Affected (Weighted for 2018)	0.0				
Total Stream Miles Affected (Weighted for 2033)	0.05				
Total Stream Miles (Denominator)	3.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	1.3%				

**CCC3A - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement</u>	<u>2033 % Improvement</u>	<u>Realized</u>	
		<u>(prorating factor)</u>	<u>(prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Change in 2033 (mi)</u>
CC38 Habitat Enhancement Project (2017)	0.32	0%	8%	0	0.024119318
Total Project Length	0.321590909			0	0.024119318
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.024119318				
Total Stream Miles (Denominator)	3.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.7%				

**CCC3A - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement</u>	<u>2033 % Improvement</u>	<u>Realized</u>	
		<u>(prorating factor)</u>	<u>(prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Change in 2033 (mi)</u>
CC38 Habitat Enhancement Project (2017)	0.11	25%	30%	0.028409091	0.034090909
Total Project Length	0.113636364			0.028409091	0.034090909
Total # Projects	1				
Total Miles Affected (Weighted for 2018)	0.028409091				
Total Miles Affected (Weighted for 2033)	0.034090909				
Total Miles (Denominator)	3.7 mi.				
% Uplift (2018)	0.8%				
% Uplift (2033)	0.9%				

**CCC3A - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement</u>	<u>2033 % Improvement</u>	<u>Realized</u>	
		<u>(prorating factor)</u>	<u>(prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Change in 2033 (mi)</u>
CC38 Habitat Enhancement Project (2017)	0.02	25%	30%	0.004734848	0.005681818
Total Project Length	0.02			0.004734848	0.005681818
Total # Projects	0				

Total Miles Affected (Weighted for 2018) 0.004734848  
Total Miles Affected (Weighted for 2033) 0.005681818  
Total Stream Miles (Denominator) 3.7 mi.

% Uplift (2018)	0.1%
% Uplift (2033)	0.2%

**CCC3A - LF 6.1 (Channel Structure and Form: Bed and Channel Form)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
CC38 Habitat Enhancement Project (2017)	0.23	15%	15%	0.034005682	0.034005682
Total Project Length	0.226704545			0.034005682	0.034005682
Total # Projects	1				

Total Stream Miles Affected (Weighted for 2018) 0.034005682  
Total Stream Miles Affected (Weighted for 2033) 0.034005682  
Total Stream Miles (Denominator) 3.7 mi.

% Uplift (2018)	0.9%
% Uplift (2033)	0.9%

**CCC3A - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
CC38 Habitat Enhancement Project (2017)	0.32	78%	78%	0.250840909	0.250840909
Total Project Length	0.321590909			0.250840909	0.250840909
Total # Projects	1				

Total Stream Miles Affected (Weighted for 2018) 0.250840909  
Total Stream Miles Affected (Weighted for 2033) 0.250840909  
Total Stream Miles (Denominator) 3.7 mi.

% Uplift (2018)	6.8%
% Uplift (2033)	6.8%

**CCC3A - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement (prorating factor)</u>	<u>Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Change in 2033 (mi)</u>
CC38 Habitat Enhancement Project (2017)	0.32	28%	36%	0.090045455	0.115772727
Total Project Length	0.32			0.090045455	0.115772727
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0.090045455				
Total Stream Miles Affected (Weighted for 2033)	0.115772727				
Total Stream Miles (Denominator)	3.7 mi.				
<b>% Uplift (2018)</b>	<b>2.4%</b>				
<b>% Uplift (2033)</b>	<b>3.1%</b>				

**CCC3A - LF 8.1 (Water Quality: Temperature)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement (prorating factor)</u>	<u>Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Change in 2033 (mi)</u>
				0	0

Percent summer days (July 20 - Aug 31) are 100% exceedance of 20 degrees C (precludes spawning). Background temperatures are too hot for flow increases to have measurable effect. No uplift.

**CCC3A - LF 8.2(Water Quality: Oxygen)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement (prorating factor)</u>	<u>Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Change in 2033 (mi)</u>
Total Project Length	0			0	0
Total # Projects	0			0	0
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	3.7 mi.				

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

**CCC3A - LF 8.4 (Water Quality: Turbidity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	3.7 mi.				

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

**CCC3A - LF 9.2 (Water Quantity: Decreased Water Quantity)**

<u>Action</u>	<u>Leases</u>				<u>2018 Weighting Factor</u>	<u>Weighted CFS (2018)</u>
	<u>Permanent Acquisition</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>		
D Ricker Lease		0.31	0.31	0.31	100%	0.31
New Ricker Lease/TLT		0.34	0.34	0.34	100%	0.34
Southern Cross Permanent Transfer		0	1.075	1.075	100%	0.72
CC44 Pipeline and Consolidation		0.6	0.6	0.6	100%	0.60
Charlson IL/TLT*		0.47	0.47	0.47	80%	0.38
Sheehy Lease		0.53	0	0	80%	0.14
D Schubert (RM16.5-12)		0.12	0.12	0	80%	0.06
GRCC TM (Malmberg, verify w TFT) (RM 15-11)		0.25	0.25	0.25	100%	0.25
<b>Total</b>	<b>0</b>	<b>2.62</b>	<b>3.165</b>	<b>3.045</b>		<b>2.80</b>

		<b>Average of leases</b>	
		==>	2.9
Weighted Total (2018)	2.8 cfs		
Total # Projects	1		
Denominator	30 cfs	ODFW instream Flow target (30 cfs). 95% exceedance flow is 25 cfs.	



% Uplift (2018)

9.3%

Transaction Name	certificate	lease	priority	term of deal	instream dates	certificate	final order rate at POD	final order rate at 10th St gage	final order rate at Davis Dam	final order rate below Davis Dams
Sheehy IL	49739	IL-1402	1867	2014-2016	7/1-10/30	1.34	0.67	0.53	0.53	0.53
Ricker IL/TLT*	6181	IL-1285	1864	2013-2017, 2018-203	7/1-10/30	0.79	0.39	0.31	0.31	0.31
Ricker new IL/TLT*	6181	IL-1404	1864	2014-2018, 2019-203	7/2-10/31	0.83	0.33	0.33	0.33	0.33
Charlson IL/TLT*	81811	IL-1284	1870	2013-2017,2018-202	7/1-10/30	0.94	0.47	0.47	0.37	0.37
Schubert IL	6274,6489	IL-1385	1870	2014-2018	6/1-9/30	0.31	0.15	0.12	0.12	0.06

CCC3B Middle Catherine Creek - Swackhammer Diversion to North and South Forks

Stream Miles of Chinook Use	14.4 mi	(used as denominator in uplift calculation)
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CCC3B - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
CC Adult Weir (2018)	12.4	50%	50%	6.2	6.2
Total Project Length	12.4			6.2	6.2
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	6.2				
Total Stream Miles Affected (Weighted for 2033)	6.2				
Total Stream Miles (Denominator)	14.4 mi.				
% Uplift (2018)	43.1%				
% Uplift (2033)	43.1%				

CCC3B - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
CC44 Phase 4 (2016)	0.53	0%	15%	0	0.0795
Hall Ranch (2017)	1	0%	15%	0	0.15
Southern Cross (2016)	0.8	0%	15%	0	0.12
Ricker Property (CC42)	0.67	0%	15%	0	0.1005
Total Project Length	3			0	0.45
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.45				
Total Stream Miles (Denominator)	14.4 mi.				
% Uplift (2018)	0.0%				

% Uplift (2033)	3.1%
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CCC3B - LF 4.2 (LWD Recruitment)

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)	Improvement (prorating factor)	Realized Change in 2018 (mi)	Change in 2033 (mi)
CC44 Phase 4 (2016)	0.53	0%	8%	0	0.03975
Hall Ranch (2017)	1	0%	8%	0	0.075
Southern Cross (2016)	0.8	0%	8%	0	0.06
Ricker Property (CC42)	0.67	0%	8%	0	0.05025
Total Project Length	3			0	0.225
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.225				
Total Stream Miles (Denominator)	14.4 mi.				

% Uplift (2018)	0.0%
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% Uplift (2033)	1.6%
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CCC3B - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)

Action	Miles treated	2018 %	2033 %	Realized	
		Improvement (prorating factor)	Improvement (prorating factor)	Realized Change in 2018 (mi)	Change in 2033 (mi)
CC44 Phase 4 (2016)	0.14	25%	25%	0.0	0.0
Hall Ranch (2017)	0.50	50%	50%	0.3	0.3
Southern Cross (2016)	2.19	75%	75%	1.6	1.6
Ricker Property (CC42)	0.67	75%	75%	0.5	0.5
Total Project Length	3.51			2.4	2.4
Total # Projects	4				
Total Miles Affected (Weighted for 2018)	2.4				
Total Miles Affected (Weighted for 2033)	2.4				
Total Miles (Denominator)	14.4 mi.				

% Uplift (2018)	16.9%
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% Uplift (2033)	16.9%
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**CCC3B - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
Hall Ranch (2017)	1	23%	23%	0.23	0.23
Southern Cross (2016)	0.8	75%	75%	0.60	0.60
Ricker Property (CC42)	0.67	75%	75%	0.50	0.50
Total Project Length	0.67			1.33	1.33
Total # Projects	1				
Total Miles Affected (Weighted for 2018)	1.33				
Total Miles Affected (Weighted for 2033)	1.33				
Total Stream Miles (Denominator)	14.4 mi.				
<b>% Uplift (2018)</b>	<b>9.2%</b>				
<b>% Uplift (2033)</b>	<b>9.2%</b>				

**CCC3B - LF 6.1 (Channel Structure and Form: Bed and Channel Form)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	
		<u>Improvement</u> <u>(prorating</u> <u>factor)</u>	<u>Improvement</u> <u>(prorating factor)</u>	<u>Change in</u> <u>2018 (mi)</u>	<u>Change in 2033</u> <u>(mi)</u>
CC44 Phase 4 (2016)	0.53	15%	15%	0.0795	0.0795
Hall Ranch (2017)	1	25%	25%	0.25	0.25
Southern Cross (2016)	0.8	90%	90%	0.72	0.72
Ricker Property (CC42)	0.67	50%	50%	0.335	0.335
Total Project Length	3			1.3845	1.3845
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	1.3845				
Total Stream Miles Affected (Weighted for 2033)	1.3845				
Total Stream Miles (Denominator)	14.4 mi.				
<b>% Uplift (2018)</b>	<b>9.6%</b>				
<b>% Uplift (2033)</b>	<b>9.6%</b>				

**CCC3B - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
CC44 Phase 4 (2016)	0.53	83%	83%	0.4399	0.4399
Hall Ranch (2017)	1	100%	100%	1	1
Southern Cross (2016)	0.8	100%	100%	0.8	0.8
Ricker Property (CC42)	0.67	100%	100%	0.67	0.67
Total Project Length	3			2.9099	2.9099
Total # Projects	4				
Total Stream Miles Affected (Weighted for 2018)	2.9099				
Total Stream Miles Affected (Weighted for 2033)	2.9099				
Total Stream Miles (Denominator)	14.4 mi.				
<b>% Uplift (2018)</b>	<b>20.2%</b>				
<b>% Uplift (2033)</b>	<b>20.2%</b>				

**CCC3B - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
CC44 Phase 4 (2016)	0.53	5%	13%	0.0265	0.06625
Hall Ranch (2017)	1	0%	8%	0	0.075
Southern Cross (2016)	0.8	50%	70%	0.4	0.56
Ricker Property (CC42)	0.67	25%	33%	0.1675	0.21775
Total Project Length	0.67			0.594	0.919
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0.594				
Total Stream Miles Affected (Weighted for 2033)	0.919				
Total Stream Miles (Denominator)	14.4 mi.				
<b>% Uplift (2018)</b>	<b>4.1%</b>				
<b>% Uplift (2033)</b>	<b>6.4%</b>				

**CCC3B - LF 8.1 (Water Quality: Temperature)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 %</u>	<u>2033 %</u>	<u>Realized</u>	<u>Realized Change in</u>	<u>Change in 2033</u>
		<u>Improvement</u>	<u>Improvement</u>	<u>Change in</u>		
		<u>(prorating</u>	<u>(prorating factor)</u>	<u>2018 (mi)</u>	<u>(mi)</u>	
CC44 Phase 4 (2016)	0.53	0%	5%	0	0.0265	
Hall Ranch (2017)	0.5	0%	5%	0	0.025	
Southern Cross (2016)	0.8	0%	5%	0	0.04	
Ricker Property (CC42)	0.67	0%	5%	0	0.0335	
Total Project Length	2.5			0	0.125	
Total # Projects	4					
Total Stream Miles Affected (Weighted for 2018)	0					
Total Stream Miles Affected (Weighted for 2033)	0.125					
Total Stream Miles (Denominator)	14.4 mi.					
% Uplift (2018)	0.0%					
% Uplift (2033)	0.9%					

Panel estimates combined temperature improvement of 0.5 degree C.

Note on temperature benefits from flow increase: Percent summer days (July 20 - Aug 31) are 27% exceedance of 20 degrees C. Background temperatures are too hot for flow increases to have measurable effect. Input water is not cool water.

CCC3B - LF 9.2 (Water Quantity: Decreased Water Quantity)

<u>Action</u>	<u>Permanent</u>	<u>Leases</u>			<u>2018 Weighting</u>	<u>Weighted CFS</u>
		<u>Acquisition</u>	<u>2016</u>	<u>2017</u>		
D Ricker Lease			0.39	0.39	14%	0.05
New Ricker Lease/TLT			0.42	0.42	14%	0.06
Southern Cross Permanent Transfer			0	1.075	28%	0.20
CC44 Pipeline and Consolidation			0.6	0.6	28%	0.17
Total		0	1.41	2.485	2.485	0.48
				<u>Average of leases</u>		
				==>		
Weighted Total (2018)		0.5 cfs			2.1	
Total # Projects		4				
Denominator		30 cfs				
% Uplift (2018)	1.6%					

ODFW instream Flow target (30 cfs). 95% exceedance flow is 25 cfs.

Transaction Name	certificate	lease	priority	term of deal	instream dates	certificated rate	final order rate at POD	final order rate at 10th St gage	final order rate at Davis Dam	final order rate below Davis Dams
Sheehy IL	49739	IL-1402	1867	2014-2016	7/1-10/30	1.34	0.67	0.53	0.53	0.53
Ricker IL/TLT*	6181	IL-1285	1864	2013-2017, 2018-203	7/1-10/30	0.79	0.39	0.31	0.31	0.31
Ricker new IL/TLT*	6181	IL-1404	1864	2014-2018, 2019-203	7/2-10/31	0.83	0.33	0.33	0.33	0.33
Charlson IL/TLT*	81811	IL-1284	1870	2013-2017,2018-2027	7/1-10/30	0.94	0.47	0.47	0.37	0.37
Schubert IL	6274,6489	IL-1385	1870	2014-2018	6/1-9/30	0.31	0.15	0.12	0.12	0.06

Priority Date	Final order rate below Davis Dams [cfs]
Senior to 1870	1.17
1870 and senior	1.6

CCC5N and S Forks Catherine Creek

Stream Miles of Chinook Use	14.7 mi	(used as denominator in uplift calculation)
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CCC5 - LF 1.1 (Anthropogenic Barriers)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
CC Adult Weir (2018)	14.7	25%	25%	3.675	3.675
Total Project Length	14.7			3.675	3.675
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	3.675				
Total Stream Miles Affected (Weighted for 2033)	3.675				
Total Stream Miles (Denominator)	14.7 mi.				
% Uplift (2018)	25.0%				
% Uplift (2033)	25.0%				

CCC5 - LF 4.1 (Riparian Vegetation)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	14.7 mi.				
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				



**CCC5 - LF 4.2 (LWD Recruitment)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	14.7 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>0.0%</b>				

**CCC5 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	14.7 mi.				
<b>% Uplift (2018)</b>	<b>0.0%</b>				
<b>% Uplift (2033)</b>	<b>0.0%</b>				

**CCC5 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)**

<u>Action</u>	<u>Miles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>2033 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>	<u>Realized Change in 2033 (mi)</u>
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				

Total Stream Miles Affected (Weighted for 2018)0

Total Stream Miles Affected (Weighted for 2033)0

Total Stream Miles (Denominator)14.7 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

CCC5 - LF 8.1 (Water Quality: Temperature)

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions				0	0
Total Project Length	0			0	0
Total # Projects	0				

Total Stream Miles Affected (Weighted for 2018)0

Total Stream Miles Affected (Weighted for 2033)0

Total Stream Miles (Denominator)14.7 mi.

% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

CCC5- LF 9.2 (Water Quantity: Decreased Water Quantity)

Action	Leases			
	Permanent Acquisition	2016	2017	2018
No Actions				
Total	0	0	0	0

Average of leases  
==>0.0

Total0.0 cfs

Total # Projects0

Denominatorcfs

Example: Base Flow

% Uplift (2018)	0.0%
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