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 Booke nd	2015 Low Booke nd	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)

(used as

denominator in

uplift

Stream Miles of Chinook Use 11 mi calculation) (based on intrinsic potential layer [NOAA])

UGC1A - LF 1.1 (Anthropogenic Barriers)

<u>Action</u>	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Cha	Realized nge in Change i (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	%				
% Unlift (2033)	0.0	%				

UGC1A - LF 4.1 (Riparian Vegetation)

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033	_
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
Five Points Wood and Planting (2016)	7	09	6 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>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>
		(prorating	Improvement	Realized Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Five Points Wood and Planting (2016)	7	0%	6 8%	50	0.525
Total Project Length	7			0	0.525
Total # Projects	1				
Total Chronic Miles Affected (Meighted for 2010)	0				
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>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		Realized
		(prorating	Improvement	Realized Change in	Change in 2033
Action	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>
Five Points Wood and Planting (2016)	7	<u>'</u> 09	6 5%	<u> </u>	0.35
Total Project Length	7	7		C	0.35
Total # Projects	1	L			
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%	,			

<u>UGC1A - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)</u>

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

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%

<u>UGC1A - LF 6.1 (Channel Structure and Form: Bed and Channel Form)</u>

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033	3
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
Five Points Wood and Planting (2016)	7	. 09	% 10%	<u> </u>	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%					

<u>UGC1A - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

		2018 %			
		Improvement	<u>2033 %</u>		<u>Realized</u>
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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				
T . I	2.45				
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>2018 %</u>			
	<u>Improvement</u>	<u>2033 %</u>	Rea	<u>alized</u>
	(prorating	<u>Improvement</u>	Realized Change in Cha	ange in 2033
Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi) (mi	<u>)</u>
	0.25 0%	2%	0	0.005
	7 0%	8%	0	0.525
#REF!			0	0.53
	0			

Total # Projects 0 Total Stream Miles Affected (Weighted for 2018) 0.53 Total Stream Miles Affected (Weighted for 2033) Total Stream Miles (Denominator) 11 mi. % Uplift (2018) 0.0% % Uplift (2033) 4.8%

UGC1A - LF 8.1 (Water Quality: Temperature)

Five Points Wood and Planting (2016, ATV use exclusion)

Five Points Wood and Planting (2016, planting)

Action

Total Project Length

		2018 %			-	_
		Improvement	<u>2033 %</u>		Realized	<u>1</u>
		(prorating	Improvement	Realized Change	in Change	in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
Five Points Wood and Planting (2016, planting)	7	0%	5%		0	0.35
Total Project Length	7	7			0	0.35
Total # Projects	1					
Total Stream Miles Affected (Weighted for 2018)	C)				
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>Leases</u>		
	Permanent			2018-2033 Flow
<u>Action</u>	<u>Acquisition</u>	<u>2016</u>	<u>2017</u>	2018 Acquired/Leased
No Actions				
Total	0	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!

<u>UGC2</u> <u>Middle GR Mainstem (Five-Pts Creek to Meadow Creek)</u>

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
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.

<u>UGC2</u> <u>Middle GR Mainstem (Five-Points Cr. To Meadow Cr.)</u>

(used as

denominator in

uplift

Stream Miles of Chinook Use 14.3 mi calculation)

<u>UGC2 - LF 1.1 (Anthropogenic Barriers)</u>

<u>Action</u>	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
Total # Projects	C)			
Total Stream Miles Affected (Weighted for 2018)	()			
Total Stream Miles Affected (Weighted for 2033)	()			
Total Stream Miles (Denominator)	14.3	<u>mi.</u>			
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

<u>UGC2 - LF 4.1 (Riparian Vegetation)</u>

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>	Realized	Realized
		(prorating	Improvement	Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Bird Track Springs (2018)	1.59	0%	15%	5	0.2385
Total Project Length	1.59	•			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%				

<u>UGC2 - LF 4.2 (LWD Recruitment)</u>

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>	<u>Realized</u>	<u>Realized</u>
		(prorating	<u>Improvement</u>	Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Bird Track Springs (2018)	1.59	0%	8%	5	0.11925
Total Project Length	1.59	-		0	0.11925
Total # Projects	1				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0.11925				
Total Stream Miles (Denominator)	14.3	_mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	0.8%				

<u>UGC2 - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)</u>

	<u>2018 %</u>			
	Improvement	<u>2033 %</u>	Realized	Realized
	(prorating	<u>Improvement</u>	Change in	Change in 2033
Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
1.59	75%	90%	1.1925	1.431
1.59	!		1.1925	1.431
1				
1.1925				
1.431		1.91	miles of side of	channel proposed
14.3	mi.			
8.3%				
10.0%				
	1.59 1.1925 1.431 14.3 8.3%	Miles treated 1.59 75% 1.59 1 1.1925	Improvement 2033 % Improvement 1.59 75% 90% 1.59 1 1.1925 1.431 1.431 1.43 mi. 8.3%	Improvement

<u>UGC2 - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)</u>

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>	Realized	Realized
		(prorating	<u>Improvement</u>	Change in	Change in 2033
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>
Bird Track Springs (2018)	1.5	<u>59</u> 75%	90%	1.1925	1.431
Total Project Length	1.5	59		1.1925	1.431
Total # Projects		0			

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%

<u>UGC2 - LF 6.1 (Channel Structure and Form: Bed and Channel Form)</u>

	<u>2018 %</u>			
	Improvement	2033 %	Realized	Realized
	(prorating	<u>Improvement</u>	Change in	Change in 2033
Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
1.59	75%	90%	1.1925	1.431
1.59	•		1.1925	1.431
1				
4 4025				
14.3	mi.			
8.3%				
10.0%				
	1.59 1.59 1 1.1925 1.431 14.3 8.3%	Miles treated (prorating factor) 1.59 75%	Improvement	Improvement

<u>UGC2 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

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

<u>UGC2 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)</u>

		2018 % Improvement	2033 %	Realized	Realized
		(prorating	Improvement	Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Bird Track Springs (2017)	1.59	50%	60%	0.79	5 0.954
Total Project Length	#REF!	•		0.79	5 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%				

<u>UGC2 - LF 8.1 (Water Quality: Temperature)</u>

		2018 %				
		Improvement	<u>2033 %</u>	Realized	Realized	
		(prorating	<u>Improvement</u>	Change in	Change in 2	033
Action	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>	
Bird Track Springs (2017)	1.59	0%	6 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.)

(used as

denominator in

uplift

Stream Miles of Chinook Use 14.4 mi calculation)

<u>UGC5 - LF 1.1 (Anthropogenic Barriers)</u>

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Char 2018 (mi)	Realized nge in Change in (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	. <u>4</u> mi.				
% Uplift (2018)	0.09	%				
% Uplift (2033)	0.09	%				

<u>UGC5 - LF 4.1 (Riparian Vegetation)</u>

		2018 %				
		Improvement	<u>2033 %</u>		Realized	
		(prorating	Improvement	Realized Chang	e in Change ir	ı 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<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)	14.4	mi.				
% Uplift (2018)	0.0%					
% Uplift (2033)	0.0%					

<u>UGC5 - LF 4.2 (LWD Recruitment)</u>

		2018 % Improvement	2033 %_	Realized Change	Realized	0022
Action	Miles treated	(prorating factor)	Improvement (prorating factor)	2018 (mi)	(mi)	2033
No Actions	- treateu	<u>1466017</u>	(prorueing ruccory	2010 ()	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%					

<u>UGC5 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

		2018 % Improvement	2033 %		Realized
		(prorating	Improvement	Realized Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Grande Ronde River Large Wood Restoration Complex (2018)	8	25	% 25%	5	2 2
Total Project Length	8	-		2	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%				

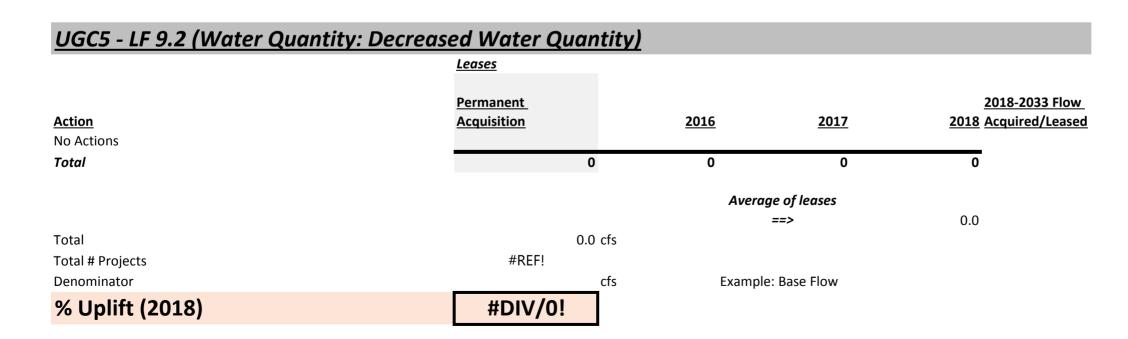
<u>UGC5 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)</u>

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

<u>UGC5 - LF 8.1 (Water Quality: Temperature)</u>

		2018 % Improvement	2033 %	Realized Change in	Realized	122
Action	Miles treated	(prorating factor)	Improvement (prorating factor)	Realized Change in 2018 (mi)	<u>(mi)</u> (mi)	33
No Actions	ivilles treated	iactor j	(prorating factor)		0 <u>(1111)</u>	0
Total Project Length	0	1			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					
% Uplift (2018)	0.0%					
% Uplift (2033)	0.0%					



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

(used as

denominator in

uplift

Stream Miles of Chinook Use 6.2 mi calculation)

<u>UGC7 - LF 4.1 (Riparian Vegetation)</u>

018	%
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		Improvement	<u>2033 %</u>		<u>Realized</u>
		(prorating	Improvement	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	2.5	09	% 15%	50	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)

2	D:	18	%	

	<u>lı</u>	mprovement	<u>2033 %</u>		Realized
	Ú	prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated fa	actor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	2.5	0%	6 8%	50	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 m	ni.			
% Uplift (2018)	0.0%				
% Uplift (2033)	3.0%				

<u>UGC7 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

<u>2018</u>	<u>%</u>		
<u>Impr</u>	ovement 2033 %	<u>!</u>	Realized
(pror	ating <u>Improvement</u>	Realized Change in	Change in 2033
<u>Miles treated</u> <u>facto</u>	r) (prorating factor)	2018 (mi)	<u>(mi)</u>
tions		0	0
Project Length 0		0	0
‡ Projects 0			
Stream Miles Affected (Weighted for 2018) 0			
Stream Miles Affected (Weighted for 2033) 0			
Stream Miles (Denominator) 6.2 mi.			
plift (2018) 0.0%			
plift (2033) 0.0%			

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

euseu Seuime	in Quantity	<u></u>			
	<u>2018 %</u>				_
	<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>	
	(prorating	Improvement	Realized Change i	in Change in 2033	<u>3</u>
Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
				0	0
#REF!	_			0	0
	0				
	0				
	0				
6.	2 mi.				
0.0%	6				
0.0%	6				
	Miles treated #REF! 6. 0.0%	2018 % Improvement (prorating Miles treated factor)	Miles treated (prorating factor) Improvement (prorating factor) #REF! 0 0 0 0 6.2 mi.	Miles treated #REF! 0 0 0 0 6.2 mi.	Miles treated 2018 % Improvement 2033 % Realized Change in Change in 2033 Change

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 Booke nd	2015	Revise d 2015 Low Booke nd
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.

Sheep Cr. & Chicken Cr. UGC8

(used as

denominator in

uplift

calculation) Stream Miles of Chinook Use 15.6 mi

UGC8 - LF 1.1 (Anthropogenic Barriers)

<u>Action</u>	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)		<u>5</u> 5	5% 5%	60.25	0.25
Total Project Length		5		0.25	0.25
Total # Projects	1	L			
Total Stream Miles Affected (Weighted for 2018)	0.25	5			
Total Stream Miles Affected (Weighted for 2033)	0.25				
Total Stream Miles (Denominator)	15.6	<u>m</u> i.			
% Uplift (2018)	1.6%				
% Uplift (2033)	1.6%				

<u>UGC8 - LF 4.1 (Riparian Vegetation)</u>

		2018 %			
		Improvement	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
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)	15.6	mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	7.7%				

UGC8 - LF 4.2 (LWD Recruitment)

		2018 % Improvement	2033 %	_	Realized
		(prorating	Improvement	Realized Change in	
<u>Action</u>	Miles treated	factor)	(prorating factor)		(mi)
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5	09	6 8%	0	0.375
Sheep Creek Exclosure Fence (2017)	3	09	6 8%	0	0.225
Total Project Length	8	8		0	0.6
Total # Projects	2	!			
Total Stream Miles Affected (Weighted for 2018)	0)			
Total Stream Miles Affected (Weighted for 2033)	0.6	j			
Total Stream Miles (Denominator)	15.6	<u>5</u> mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	3.8%				

<u>UGC8 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

	<u>2018 %</u>				
	<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>	
	(prorating	Improvement	Realized Change in	n Change in 2	033
Miles treated	<u>factor)</u>	(prorating factor)	<u>2018 (mi)</u>	<u>(mi)</u>	
				0	0
	0			0	0
	0				
	0				
	0				
15	5.6 mi.				
0.09	%				
0.09	%				
	0.09	Miles treated (prorating factor) 0 0 0	Miles treated Improvement (prorating) Improvement (prorating factor)	Miles treated Improvement	Miles treated Improvement (prorating factor) Improvement (prorating factor) Ealized Change in 2 (mi) (mi) (mi)

<u>UGC8 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)</u>

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realize	<u>ed</u>
		(prorating	<u>Improvem</u>	ent Realized	Change in Chang	e in 2033
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating	factor) 2018 (mi)	<u>(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%				

<u>UGC8 - LF 8.1 (Water Quality: Temperature)</u>

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5	0%	6 5%	0	0.25
Sheep Creek Exclosure Fence (2017)	3	0%	6 5%	50	0.15
Total Project Length	-	3		0	0.4
Total # Projects	2	!			
Table Character Affice Affice and (Marie Interdisc 2040)	,				
Total Stream Miles Affected (Weighted for 2018)	(
Total Stream Miles Affected (Weighted for 2033)	0.4				
Total Stream Miles (Denominator)	15.6	<u> </u>			
% 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 Booke nd	2015 Low Booke nd	Revise d 2015 Low Booke nd
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.

<u>UGC9</u> <u>Limber Jim and Tribs. & Meadowbrook Cr.</u>

(used as

denominator in

uplift

Stream Miles of Chinook Use 3.6 mi calculation)

<u>UGC9 - LF 4.1 (Riparian Vegetation)</u>

^	•	\mathbf{a}	0/	
()	1.	×	U/ _	
u		. C	70	

<u>Action</u>	Miles treated	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%	6 15%	. 0	0.3
Total Projects	2 2		0 1376	0	0.3
Total Stream Miles Affected (Weighted for 2018) Total Stream Miles Affected (Weighted for 2033) Total Stream Miles (Denominator)	0.3 3.6	mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	8.3%				

<u>UGC9 - LF 4.2 (LWD Recruitment)</u>

Action Limber Jim Wood and Planting (2018, includes Plant Skydd Elk	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Browse Control)	2	0	% 8%	S (0.15
Total Project Length	2	•			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)

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

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

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

		2018 % Improvement (prorating	2033 % Improvement	Realized Change in	Realized Change in 2022
Action Limber Jim Wood and Planting (2018, includes Plant Skydd Elk	Miles treated	factor)	(prorating factor)	2018 (mi)	(mi)
Browse Control)		2 0%	6 5%	6 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.	<u>6</u> mi.			
% Uplift (2018)	0.0%	6			
% Uplift (2033)	2.8%	6			

<u>UGS4</u> <u>Upper Grande Ronde River Mainstem - Upstream End of Grande Ronde Valley to Meadow Creek</u>

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	Revised 2015 Low Bookend s
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.

<u>UGS4</u> <u>Upper Grande Ronde River Mainstem - Upstream End of Grande Ronde Valley to Meadow Creek</u>

(used as

denominator in

uplift

Stream Miles of Steelhead Use 14.7 mi calculation)

UGS4 - LF 1.1 (Anthropogenic Barriers)

		2018 % Improvement (prorating	2033 % Improvement	Realized Change in	Realized Change in 20	<u>033</u>
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	<u>2018 (mi)</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)	14.	<u>7</u> mi.				
% Uplift (2018)	0.0%	6				
% Uplift (2033)	0.0%	6				

UGS4 - LF 4.1 (Riparian Vegetation)

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>	Realized	Realized
		(prorating	<u>Improvement</u>	Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Bird Track Springs (2018)	1.59	0%	15%	5	0.2385
Total Project Length	1.59	•		(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>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>	Realized	<u>Realized</u>
		(prorating	<u>Improvement</u>	Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Bird Track Springs (2018)	1.59	0%	8%	0	0.11925
Total Project Length	1.59	!		0	0.11925
Total # Projects	1				
Tatal Change Miles Affected (Mainhad for 2010)	0				
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%				

<u>UGS4 - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)</u>

	<u>2018 %</u>			
	Improvement	<u>2033 %</u>	Realized	Realized
	(prorating	<u>Improvement</u>	Change in	Change in 2033
Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
1.59	75%	90%	1.1925	1.431
1.59	!		1.1925	1.431
1				
1.1925				
1.431		1.91	miles of side	channel proposed
14.7	mi.			
8.1%				
9.7%				
	Miles treated 1.59 1.59 1 1.1925 1.431 14.7	Miles treated factor) 1.59 1.59 1.1925 1.431 14.7 mi. 8.1%	Improvement (prorating Improvement (prorating Improvement (prorating factor) (pro	Improvement

<u>UGS4 - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)</u>

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>	Realized	Realized
		(prorating	<u>Improvement</u>	Change in	Change in 2033
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>
Bird Track Springs (2018)	1.5	<u>59</u> 75%	90%	1.1925	1.431
Total Project Length	1.5	59		1.1925	1.431
Total # Projects		0			

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%

<u>UGS4 - LF 6.1 (Channel Structure and Form: Bed and Channel Form)</u>

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>	<u>Realized</u>	<u>Realized</u>
		(prorating	<u>Improvement</u>	Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<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				
T . 15. Att. Aff 1(W.: 1. 15. 2042)	4.4005				
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%				

<u>UGS4 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

		<u>2018 %</u>			
		Improvement	2033 %	Realized	Realized
		(prorating	<u>Improvement</u>	Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<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				
T + 15: Att + 15: 2040)	4.4025				
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%				

<u>UGS4 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)</u>

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>	Realized	Realized
		(prorating	<u>Improvement</u>	Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(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.			
% Uplift (2018)	5.4%				
% Uplift (2033)	6.5%				

<u>UGS4 - LF 8.1 (Water Quality: Temperature)</u>

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)	-
Bird Track Springs (2017)	1.59	0%	10%	5	0.159	<u> </u>
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.				
% Uplift (2018)	0.0%					
% Uplift (2033)	1.1%					

<u>UGS4 - LF 9.2 (Water Quantity: Decreased)</u>

No Actions

UGS5 Lookingglass Creek and Tributaries

Action

No Actions

Total Project Length
Total # Projects

(used as

denominator in

uplift

Stream Miles of Steelhead Use 51.5 mi calculation)

Miles treated

<u>UGS5 - LF 1.1 (Anthropogenic Barriers)</u>

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

Total Stream Miles (Denominator)	51.5_m
% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

UGS5 - LF 4.1 (Riparian Vegetation)

Total Stream Miles Affected (Weighted for 2018) Total Stream Miles Affected (Weighted for 2033)

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Lookingglass Property Acquisition	3	0%	6 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%				

<u>UGS5 - LF 4.2 (LWD Recruitment)</u>

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	
		(prorating	Improvement	Realized Change in	Change in 2033	
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>	
Lookingglass Property Acquisition		<u>3</u> 09	% 0%	5	0 0	
Total Project Length	3	3			0 0	
Total # Projects	1	1				
Table Common Maller Affacted (Malachted Con 2040)	,					
Total Stream Miles Affected (Weighted for 2018)	(
Total Stream Miles Affected (Weighted for 2033)	(
Total Stream Miles (Denominator)	51.5	<u>5</u> mi.				
% Uplift (2018)	0.0%					
% Uplift (2033)	0.0%					

<u>UGS5 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

		2018 % Improvement (prorating	2033 % Improvement	Realized Change in	Realized Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Lookingglass Property Acquisition	3	09	% 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

Stream Miles of Steelhead Use 64.7 mi calculation)

UGS8 - LF 1.1 (Anthropogenic Barriers)

		2018 % Improvement (prorating	2033 % Improvement	Realized Change in	
Action	Miles treated	<u>factor)</u>	(prorating factor)	<u>2018 (mi)</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)	64.7	mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%				

UGS8 - LF 4.1 (Riparian Vegetation)

		2018 %			_		
		<u>Improvement</u>	<u>2033 %</u>			Realized	<u>_</u>
		(prorating	<u>Improvement</u>		Realized Change in	Change i	in 2033
<u>Action</u>	Miles treated	factor)	(prorating fact	or)	2018 (mi)	<u>(mi)</u>	
Willow Creek OAF (2016)	5.52	. 0	%	15%	5)	0.828
Dry Creek Restoration Project (2018)	0.21	<u> </u>	%	15%	5)	0.0315
Total Project Length	5.73	-			()	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>2018 %</u>			
		Improvement	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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.			
% Uplift (2018)	0.0%				
% Uplift (2033)	0.7%				

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

		2018 %			
		<u>Improvement</u>	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Dry Creek Restoration Project (2018)	0.21	509	% 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.			
% Uplift (2018)	0.2%				
% Uplift (2033)	0.2%				

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

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

Total Project Length	0.21	0.186666667	0.186666667
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.		
% Uplift (2018)	0.3%		
% Uplift (2033)	0.3%		

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

		2018 %			
		<u>Improvement</u>	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Willow Creek OAF (2016)	5.52	09	6 8%	0	0.414
Dry Creek Restoration Project (2018)	0.21	109	6 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.			
% Uplift (2018)	0.0%				
% Uplift (2033)	0.7%				

UGS8 - LF 8.1 (Water Quality: Temperature)

		<u>2018 %</u>			
		<u>Improvement</u>	2033 %		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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: Decrease	ed Water Qua	ntity)					
		<u>Leases</u>					
							<u> 2018-</u>
							2033
							<u>Flow</u>
	Permanent				2018 Weighting	Weighted CFS	Acquired/
<u>Action</u>	<u>Acquisition</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Factor</u>	<u>(2018)</u>	<u>Leased</u>
No Action						#DIV/0!	
Total		0	0 0		0	#DIV/0!	0
			Average of leases				
			==>		0.0		
Wai-bt-d Tatal (2018)	401/4/01	-c-					
Weighted Total (2018)	#DIV/0!	cfs					
Total # Projects	#DIV/0!	0					
	·		ODFW instream Flow	target (30 cfs). 9	5% exceedance flow is	25 cfs.	

										final
								final	final	order rate
							final	order rate	order rate	below
							order rate	at 10th St	at Davis	Davis
Transaction Name	certificate	lease	priority	term of deal	instream dates	certificated rate	at POD	gage	Dam	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

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

<u>UGS9A</u> <u>Lower Catherine Creek and Tributaries (Mainstem Migration Corridor Only)</u>

(used as

denominator in

uplift

Stream Miles of Steelhead Use 36 mi calculation)

UGS9A - LF 1.1 (Anthropogenic Barriers)

<u>Action</u>	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change	Realized in Change in 2 (mi)	<u> 2033</u>
No Actions		_			0	0
Total Project Length	()			0	0
Total # Projects	()				
Total Stream Miles Affected (Weighted for 2018)	()				
Total Stream Miles Affected (Weighted for 2033)	()				
Total Stream Miles (Denominator)	36	6 mi.				
% Uplift (2018)	0.0%					
% Uplift (2033)	0.0%					

UGS9A - LF 4.1 (Riparian Vegetation)

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

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

<u>UGS9A - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)</u>

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
No Actions		_		(0
Total Project Length	()			0
Total # Projects	()			
Total Miles Affected (Weighted for 2018)	()			
Total Miles Affected (Weighted for 2033)	()			
Total Miles (Denominator)	36	<u>5</u> mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%	,			

<u>UGS9A - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)</u>

		<u>2018 %</u>				
		Improvement	2033 %		Realized	
		(prorating	<u>Improvement</u>	Realized Change	in Change in 20	<u>)33</u>
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
No Actions					0	0
		_			0	0
Total Project Length		0			0	0

% Uplift (2033)	0.0%
% Uplift (2018)	0.0%
Total Stream Miles (Denominator)	36 mi.
Total Miles Affected (Weighted for 2033)	0
Total Miles Affected (Weighted for 2018)	0
Total # Projects	0

<u>UGS9A - LF 6.1 (Channel Structure and Form: Bed and Channel Form)</u>

		2018 %	2022 %		Dealined	
		Improvement	<u>2033 %</u>	- " 4	Realized	
		(prorating	Improvement	Realized Chang	ge in Change in	2033
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>	
No Actions		<u></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)		36 mi.				
% Uplift (2018)	0.0	%				
% Uplift (2033)	0.0	%				

<u>UGS9A - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change i	Realized in Change in 2033 (mi)
No Actions		_			0 0
Total Project Length)			0 0
Total # Projects	(0			
Total Stream Miles Affected (Weighted for 2018)	()			
Total Stream Miles Affected (Weighted for 2033)	()			
Total Stream Miles (Denominator)	3	<u>6</u> mi.			
% Uplift (2018)	0.0%	5			
% Uplift (2033)	0.0%	5			

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

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>	
		(prorating	Improvement	Realized Change in	n Change in 2	033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
No Actions		_			0	0
Total Project Length	()			0	0
Total # Projects	()				
Total Stream Miles Affected (Weighted for 2018)	()				
Total Stream Miles Affected (Weighted for 2033)	()				
Total Stream Miles (Denominator)	36	<u>6</u> 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)

		Leases				
						Weighted
	<u>Permanent</u>				2018 Weighting	<u>CFS</u>
<u>Action</u>	<u>Acquisition</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Factor</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
Total	0	2.83	3.675	3.555		1.08
			Average of leases			
			==>	3.4		
Weighted Total (2018)	1.1 cfs					
Total # Projects	1					
Denominator	30 cfs		ODFW instream Flow	target (30 cfs). 95% exc	eedance flow is 25 o	cfs.
% Uplift (2018)	3.6%					

<u>UGS9B</u> <u>Lower Catherine Creek and Tributaries (contributing area and tributaries only)</u>

(used as

denominator in

uplift

Stream Miles of Steelhead Use 36 mi calculation)

UGS9B - LF 1.1 (Anthropogenic Barriers)

Action No Actions	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change i	Realized n Change in 20 (mi))33 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) Total Stream Miles (Denominator)		0 6 mi.				
% Uplift (2018)	0.0%	6				
% Uplift (2033)	0.0%	6				

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
Total Project Length	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%				

		2018 %				
		<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>	
		(prorating	<u>Improvement</u>	Realized Change i	in Change in 20	033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<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%					

<u>UGS9B - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)</u>

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
Total # Projects	C)			
Total Miles Affected (Weighted for 2018)	()			
Total Miles Affected (Weighted for 2033)	()			
Total Miles (Denominator)	36	<u>5</u> mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	0.0%	,			

<u>UGS9B - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)</u>

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	
		(prorating	<u>Improvement</u>	Realized Change in	n Change in 20	<u>33</u>
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>	
No Actions					0	0
		<u></u>			0	0
Total Project Length		0			0	0

% Uplift (2033)	0.0%
% Uplift (2018)	0.0%
Total Stream Miles (Denominator)	36 mi.
Total Miles Affected (Weighted for 2033)	0
Total Miles Affected (Weighted for 2018)	0
Total # Projects	0

<u>UGS9B - LF 6.1 (Channel Structure and Form: Bed and Channel Form)</u>

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)
Total # Projects	C)				
Total Stream Miles Affected (Weighted for 2018)	C)				
Total Stream Miles Affected (Weighted for 2033)	C)				
Total Stream Miles (Denominator)	36	<u>5</u> mi.				
% Uplift (2018)	0.0%					
% Uplift (2033)	0.0%					

<u>UGS9B - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

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

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

		2018 %			
		Improvement	<u>2033 %</u>		<u>Realized</u>
		(prorating	<u>Improvement</u>	Realized Change in	<u>1 Change in 2033</u>
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
No Actions		_			0 0
Total Project Length	0	<u></u>			0 0
Total # Projects	0	1			
	_				
Total Stream Miles Affected (Weighted for 2018)	0				
Total Stream Miles Affected (Weighted for 2033)	0				
Total Stream Miles (Denominator)	36	<u>m</u> i.			
% 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)

		Lea	ses					
							W	eighted
	<u>Permanent</u>					2018 Wei	ghting CF	<u>S</u>
<u>Action</u>	<u>Acquisition</u>		<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Factor</u>	(20	<u>018)</u>
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 Creel	k based on it hav	ing ~25% flow	of Cath. Cr	eek (NHI

0.4%

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

(used as

denominator in

uplift

Stream Miles of Steelhead Use 3.7 mi calculation)

<u>UGS10A - LF 1.1 (Anthropogenic Barriers)</u>

	<u>Miles</u>	2018 % Improvement (prorating	2033 % Improvement		Realized nge in Change in	n 2033
<u>Action</u>	<u>treated</u>	<u>factor)</u>	(prorating factor)	<u>2018 (mi)</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)		3.7 mi.				
% Uplift (2018)	0.0	%				
% Uplift (2033)	0.0	%				

UGS10A - LF 4.1 (Riparian Vegetation)

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		Realized
	Miles	(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
Action	<u>treated</u>	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
CC38 Habitat Enhancement Project (2017)	0.32	0%	6 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>2018 %</u>			
		Improvement	<u>2033 %</u>		Realized
	Miles	(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	treated	factor)	(prorating factor)	2018 (mi)	<u>(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 Stroom Miles Affected (Meighted for 2019)	0				
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%				

<u>UGS10A - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)</u>

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

<u>UGS10A - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)</u>

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

% Uplift (2033)	0.2%
% Uplift (2018)	0.1%
Total Stream Miles (Denominator)	3.7 mi.
Total Miles Affected (Weighted for 2033)	0.005681818
Total Miles Affected (Weighted for 2018)	0.004734848

<u>UGS10A - LF 6.1 (Channel Structure and Form: Bed and Channel Form)</u>

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		Realized
	Miles	(prorating	Improvement	Realized Change in	Change in 2033
Action	treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
CC38 Habitat Enhancement Project (2017)	0.23	15%	4 15%	0.034005682	0.034005682
Total Project Length	0.23	3		0.03	0.03
Total # Projects	1	L			
Total Stream Miles Affected (Weighted for 2018)	0.03	3			
Total Stream Miles Affected (Weighted for 2033)	0.03	3			
Total Stream Miles (Denominator)	3.7	⁷ _mi.			
% Uplift (2018)	0.9%				
% Uplift (2033)	0.9%				

<u>UGS10A - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>		Realized
	Miles	(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	<u>treated</u>	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
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>2018 %</u>						
		<u>Improvement</u>	<u>t</u>	<u>2033 %</u>		<u>Realized</u>	_	
	Miles	(prorating		<u>Improvement</u>	Realized Cha	ange in Change i	n 2033	
<u>Action</u>	treated	factor)		(prorating factor)	2018 (mi)	<u>(mi)</u>		
CC38 Habitat Enhancement Project (2017)	0.32	2	28%	36%	<u> </u>	0.1	0.1	
Total Project Length	0.32	2				0.1	0.1	
Total # Projects	(0						
Total Stream Miles Affected (Weighted for 2018)	0.09004545	5						
Total Stream Miles Affected (Weighted for 2033)	0.115772727	7						
Total Stream Miles (Denominator)	3.7	7 mi.						
% Uplift (2018)	2.4%	S						
% Uplift (2033)	3.1%	The 2033 estin	nate i	in the Taurus databas	e includes an a	dditional 2.0% upl	ift for look	kback projects for a total uplift of 5.1% (50.8%).

UGS10A - LF 8.1 (Water Quality: Temperature)

2018 %

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)

		2018 % Improvement	<u>2033 %</u>		Realized	
	Miles	(prorating	Improvement	Realized Chan	ge in Change i	n 2033
Action	treated	factor)	(prorating factor)	2018 (mi)	<u>(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)

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	_
	<u>Miles</u>	(prorating	<u>Improvement</u>	Realized Cha	nge in Change i	n 2033
<u>Action</u>	treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<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)	;	3.7 mi.				
% Uplift (2018)	0.0	%				
% Uplift (2033)	0.0	%				

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

	<u>Le</u>	<u>ases</u>				
						Weighted
	<u>Permanent</u>				2018 Weighting	<u>CFS</u>
<u>Action</u>	Acquisition	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Factor</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	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)

Total # Projects

Denominator

2.8 cfs

1

30 cfs

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

								fin al		final
								final order rate		order rate below
							order rate	at 10th St	at Davis	Davis
Transaction Name	certificate	lease	priority	term of deal	instream dates	certificate	at POD	gage	Dam	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

<u>UGS10B</u> <u>Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks</u>

(used as

denominator in

uplift

Stream Miles of Steelhead Use 23 mi calculation)

UGS10B - LF 1.1 (Anthropogenic Barriers)

2018	%
------	---

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

<u>20</u>	1	<u>.8</u>	<u>%</u>	

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

UGS10B - LF 4.2 (LWD Recruitment)

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

<u>UGS10B - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)</u>

		2018 %			
		<u>Improvement</u>	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
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	4			
Total Miles Affected (Weighted for 2018)	2.	4			
Total Miles Affected (Weighted for 2033)	2.4				
Total Miles (Denominator)	23	3 mi.			
% Uplift (2018)	10.6%				
% Uplift (2033)	10.6%	5			

<u>UGS10B - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)</u>

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

<u>UGS10B - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
CC44 Phase 4 (2016)	0.53	839	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%	6 100%	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.			
% Uplift (2018)	12.7%				
% Uplift (2033)	12.7%				

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

		2018 %			
		<u>Improvement</u>	2033 %		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(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.			
% Uplift (2018)	2.6%				
% Uplift (2033)	4.0%				

UGS10B - LF 8.1 (Water Quality: Temperature)

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

UGS10B - LF 9.2 (Water Quanti	<u>ty: Decreased Water</u>	Quantity)				
		<u>Leases</u>				
	Permanent				2018 Weighting	Weighted CFS
<u>Action</u>	Acquisition	<u>2016</u>	<u>2017</u>	2018	<u>Factor</u>	<u>(2018)</u>
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	ODFW instre	am Flow target (30 cfs)	95% exceedance flow is	25 cfs.
% Uplift (2018)	1.	.6%				

										final
								final	final	order rate
							final	order rate	order rate	below
							order rate	at 10th St	at Davis	Davis
Transaction Name	certificate	lease	priority	term of deal	instream dates	certificated rate	at POD	gage	Dam	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

	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 Booke nd	2015 Low Booke nd	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

(used as

denominator in

uplift

Stream Miles of Steelhead Use 43.5 mi calculation)

<u>UGS13A - LF 1.1 (Anthropogenic Barriers)</u>

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>	<u>_</u>
		(prorating	Improvement	Realized Chan	ige in Change i	in 2033
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>	
No Actions					0	0
Total Project Length		0			0	0
Total # Projects		0				
Total Change Miles Affected (Maighted for 2010)		0				
Total Stream Miles Affected (Weighted for 2018)		U				
Total Stream Miles Affected (Weighted for 2033)		0				
Total Stream Miles (Denominator)	4	3.5 mi.				

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

<u>UGS13A - LF 4.1 (Riparian Vegetation)</u>

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%			
Total Project Length	7	1		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%				

<u>UGS13A - LF 4.2 (LWD Recruitment)</u>

		<u>2018 %</u>				
		Improvement	<u>2033 %</u>		<u>Realized</u>	
		(prorating	Improvement	Realized Change in	Change in	2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
Five Points Wood and Planting (2016)	7	0	% 8%	50)	0.525
Total Project Length	7	-		0)	0.525
Total # Projects	1					
Total Stream Miles Affected (Weighted for 2018)	0					
Total Stream Miles Affected (Weighted for 2033)	0.525					
Total Stream Miles (Denominator)	43.5	_mi.				
% Uplift (2018)	0.0%					
% Uplift (2033)	1.2%					

<u>UGS13A - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)</u>

		<u>2018 %</u>			
		Improvement	2033 %		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Five Points Wood and Planting (2016)	7	09	% 5%	50	0.35
Total Project Length	7	-		0	0.35
Total # Projects	1				
T. (184) Aff. (174) (17 (18 (18 (18 (18 (18 (18 (18 (18 (18 (18					
Total Miles Affected (Weighted for 2018)	0				
Total Miles Affected (Weighted for 2033)	0.35				
Total Miles (Denominator)	43.5	mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	0.8%				

<u>UGS13A - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)</u>

		<u>2018 %</u>					
		Improvement	<u>t</u>	<u>2033 %</u>		Realized	
		(prorating		<u>Improvement</u>	Realized Change i	n Change in	2033
<u>Action</u>	Miles treated	factor)		(prorating factor)	2018 (mi)	<u>(mi)</u>	
Five Points Wood and Planting (2016)		7	0%	5%	1	0	0.35
Total Project Length		7				0	0.35
Total # Projects		0					

% Uplift (2018) % Uplift (2033)	0.0%
% Uplift (2018)	0.0%
Total Stream Miles (Denominator)	43.5 mi
Total Miles Affected (Weighted for 2033)	0.35
Total Miles Affected (Weighted for 2018)	0

<u>UGS13A - LF 6.1 (Channel Structure and Form: Bed and Channel Form)</u>

		2018 % Improvement	<u>2033 %</u>		<u>Realized</u>
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Five Points Wood and Planting (2016)		7	0% 10%	S(0.7
Total Project Length		7		(0.7
Total # Projects		1			
Total Stream Miles Affected (Weighted for 2018)		0			
Total Stream Miles Affected (Weighted for 2033)	().7			
Total Stream Miles (Denominator)	43	3.5 mi.			
% Uplift (2018)	0.0	%			
% Uplift (2033)	1.69	%			

<u>UGS13A - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Five Points Wood and Planting (2016)	7	459	% 45%	3.15	3.15
Total Project Length	7			3.15	3.15
Total # Projects	1				
Tatal Stream Nation Affordad (National for 2010)	2.45				
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%				

<u>UGS13A - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)</u>

	<u>2018 %</u>				
	Improvement	<u>2033 %</u>		Realized	<u>L</u>
	(prorating	Improvement	Realized Change i	n Change	in 2033
Miles treated	factor)	(prorating factor)	<u>2018 (mi)</u>	<u>(mi)</u>	
0.25	0%	2%		0	0.005
7	0%	8%		0	0.525
7.25				0	0.53
0					
0					
0.53					
43.5	mi.				
0.0%					
1.2%					
	0.25 7 7.25 0 0 0.53 43.5	0.25 0% 7 0% 7.25 0 0 0 0.53 43.5 mi.	Improvement (prorating factor) Improvement (prorating factor)	Improvement (prorating Improvement (prorating factor) 2018 (mi)	Improvement

<u>UGS13A - LF 8.1 (Water Quality: Temperature)</u>

		2018 % Improvement	2033 %		Realized	
		(prorating	Improvement	Realized Change i		1 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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>Leases</u>		
	<u>Permanent</u>			
Action	<u>Acquisition</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 #REF!
Denominator cfs

W 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 Booke nd	2015 Low Booke nd	Atlas Weight s for referen ce
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

(used as

denominator in

uplift

Stream Miles of Steelhead Use 63.7 mi calculation)

UGS14 - LF 1.1 (Anthropogenic Barriers)

		2018 %				
		<u>Improvement</u>	<u>2033 %</u>		Realized	
		(prorating	Improvement	Realized Change in	n Change in 20	33
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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)	63.7	mi.				
% Uplift (2018)	0.0%					
% Uplift (2033)	0.0%					

UGS14 - LF 4.1 (Riparian Vegetation)

		<u>2018 %</u>					
		<u>Improvement</u>	203	<u>83 %</u>		Realized	
		(prorating	<u>lm</u> ı	orovement	Realized Change	in Change in	n 2033
<u>Action</u>	Miles treated	factor)	(pr	orating factor)	2018 (mi)	<u>(mi)</u>	
Cunha Meadow Conservation Easement Acquisition (Exclusion							
fencing)	1	<u>L</u> (0%	15%		0	0.15
Total Project Length	1	Ī				0	0.15
Total # Projects	1	L					
Total Stream Miles Affected (Weighted for 2018)	()					
Total Stream Miles Affected (Weighted for 2033)	0.15	5					
Total Stream Miles (Denominator)	63.7	<u>7</u> mi.					
% Uplift (2018)	0.0%						
% Uplift (2033)	0.2%	The Taurus value	e reflec	ts this 0.2% uplift	and an additional 3	.2% uplift from	m lookback projects contributing to an overall uplift of 63.4% in 2033.

UGS14 - LF 4.2 (LWD Recruitment)

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	
		(prorating	<u>Improvement</u>	Realized Change in	Change in	2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
Cunha Meadow Conservation Easement Acquisition (Exclusion						
fencing)	1	(0% 89	%	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	e reflects this 0.1% uplif	t and an additional 1.6	% uplift from	n lookback projects contributing to an overall uplift of 61.7% in 2033.

<u>UGS14 - LF 6.1 (Channel Structure and Form: Bed and Channel Form)</u>

		2018 % Improvement	2033 %		Realized	
		(prorating	Improvement	Realized Change in	Change in 203	3
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<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)	63.7	mi.				
% Uplift (2018)	0.0%					
% Uplift (2033)	0.0%					

<u>UGS14 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

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

Action Cunha Meadow Conservation Easement Acquisition (Exclusion		2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor		Realized Change in 2018 (mi)	Realized Change (mi)	_
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 projec	ted an uplift of 71.6	% tot	al for look back and l	look forwar	d actions

UGS14 - LF 8.1 (Water Quality: Temperature)

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>		Realized
		(prorating	Improvement	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Cunha Meadow Conservation Easement Acquisition (Exclusion					
fencing)	1	<u>L</u> 09	% 5%	50	0.05
Total Project Length	1	<u>-</u>		0	0.05
Total # Projects	1	L			
T. 16: ANI ANI 1 1/14: 1: 15 2040)					
Total Stream Miles Affected (Weighted for 2018)	(
Total Stream Miles Affected (Weighted for 2033)	0.05	5			
Total Stream Miles (Denominator)	63.7	⁷ mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	0.1%				

UGS14- LF 9.2 (Water Quantity: Decreased Water Quantity)							
	Permanent	<u>Leases</u>					
Action	Acquisition		<u>2016</u>	<u>2017</u>	2018		
No Actions		•	•				
Total		0	0	0	0		
			Avera	ge of leases			
				==>	0.0		
Total		0.0 cfs					

Total # Projects #REF!
Denominator cfs

% Uplift (2018) #DIV/0!

UGS15 McCoy Creek, Dark Canyon, and Tributaries

(used as

denominator in

uplift

Stream Miles of Steelhead Use 39 mi calculation)

UGS15 - LF 1.1 (Anthropogenic Barriers)

Action No Actions

Total Project Length
Total # Projects

	<u>2018 %</u>				
	<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>	
	(prorating	Improvement	Realized Change	in Change in 20	033
Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
	_			0	0
()			0	0
C)				

0

0

 Total Stream Miles (Denominator)
 39 mi.

 % Uplift (2018)
 0.0%

 % Uplift (2033)
 0.0%

UGS15 - LF 4.1 (Riparian Vegetation)

Total Stream Miles Affected (Weighted for 2018)

Total Stream Miles Affected (Weighted for 2033)

		2018 %			
		Improvement	2033 %		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Dark Canyon Phase 1 (2018)	3	0%	15%	0	0.45
McCoy Wood and Planting (2018)	2	2 0%	15%	0	0.3
Dark Canyon Fencing and Spring Development (2016)	2	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	ļ			
Total Changes Miles Affastad (Maishtad for 2040)	,				
Total Stream Miles Affected (Weighted for 2018)	(
Total Stream Miles Affected (Weighted for 2033)	1.425				
Total Stream Miles (Denominator)	39) mi.			

% Uplift (2018)	0.0%
% Uplift (2033)	3.7%

<u>UGS15 - LF 4.2 (LWD Recruitment)</u>

		2018 %			
		Improvement	<u>2033 %</u>	<u>!</u>	Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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.			
% Uplift (2018)	0.0%				
% Uplift (2033)	1.8%				

<u>UGS15 - LF 6.1 (Channel Structure and Form: Bed and Channel Form)</u>

		2018 %			
		Improvement	<u>2033 %</u>		Realized
		(prorating	Improvement	Realized Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	<u>2018 (mi)</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	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.			
% Uplift (2018)	0.6%				
% Uplift (2033)	1.0%				

<u>UGS15 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>	<u>!</u>	<u>Realized</u>
		(prorating	Improvement	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<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.			
% Uplift (2018)	2.7%				
% Uplift (2033)	2.7%]			

<u>UGS15 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)</u>

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>	<u>!</u>	Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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) Cunha Dark Canyon Conservation Easement Acquisition (Exclusion	2	0%	8%	0	0.15
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.			
% Uplift (2018)	0.0%				
% Uplift (2033)	1.8%				

<u>UGS15 - LF 8.1 (Water Quality: Temperature)</u>

2018 %

	Improvement 20		2033 %		Realized
		(prorating	Improvement	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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)		mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	1.0%				

<u>UGS15- LF 9.2 (Water Quantity: Decreased Water Quantity)</u>

00313-Li 3.2 (Water Qualitity. Decreased Water Qualitity)									
<u>Leases</u>									
<u>Permanent</u>									
<u>Acquisition</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>						
0	0	0	0						
	Averag	ge of leases							
		==>	0.0						
0.0 cfs									
0									
cfs	Example	e: Base Flow							
#DIV/0!									
	Permanent Acquisition 0 0.0 cfs 0 cfs	Permanent Acquisition 0 0 Average 0.0 cfs 0 cfs Example	Permanent 2016 2017 0 0 0 Average of leases ==> 0.0 cfs 0 cfs Example: Base Flow						

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

(used as

denominator in

uplift

Stream Miles of Steelhead Use 110.7 mi calculation)

UGS16 - LF 1.1 (Anthropogenic Barriers)

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

		2018 %				
		Improvement	<u>2033 %</u>		Realized	
		(prorating	<u>Improvement</u>	Realized Change in	Change in	2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
Rock Creek Phase III (2016)	1	. 09	4 15%	5)	0.15
Total Project Length	1	•		()	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					
% Uplift (2018)	0.0%					
% Uplift (2033)	0.1%	The 2033 estimate	ed uplift was added to t	he 2033 condition of 4	7% that was	determined at a prior expert panel.

UGC2 - LF 4.2 (LWD Recruitment)

		2018 %					
		<u>Improvemen</u>	ıt_	2033 %		Realize	<u>d</u>
		(prorating		Improvement	Realized Cha	nge in Change	in 2033
Action	Miles treated	factor)		(prorating factor)	2018 (mi)	<u>(mi)</u>	
Rock Creek Phase III (2016)		1	0%	8%	5	0	0.075
Total Project Length		1				0	0.075
Total # Projects		1					

% 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.
% Uplift (2018)	0.0%	
Total Stream Miles (Denominator)	110.7 r	mi.
Total Stream Miles Affected (Weighted for 2033)	0.075	
Total Stream Miles Affected (Weighted for 2018)	0	

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

		Improvement	<u>2033 %</u>	<u>!</u>	Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
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		1.91	miles of side channel p	proposed
Total Miles (Denominator)	110.7	mi.			
% Uplift (2018)	0.7%				
% Uplift (2033)	0.8%				
Total Miles Affected (Weighted for 2018) Total Miles Affected (Weighted for 2033) Total Miles (Denominator) **Uplift**(2018)	0.7%	mi.	1.91	miles of side channel p	proposed

<u>UGS16 - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)</u>

	<u>2018 %</u>			
	Improvement	<u>2033 %</u>		Realized
	(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
1	75%	90%	0.75	0.9
1	•		0.75	0.9
0				
0.75				
0.9				
110.7	mi.			
0.7%				
0.8%				
	1 0 0.75 0.9 110.7 0.7%	Miles treated (prorating factor) 1 75% 1 0 0.75	Improvement (prorating Improvement (prorating factor) 1 75% 90%	Improvement (prorating Improvement Realized Change in 2018 (mi)

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

		<u>2018 %</u>				
		Improveme	nt	<u>2033 %</u>		Realized
		(prorating		Improvement	Realized Change in	Change in 2033
Action	Miles treated	factor)		(prorating factor)	2018 (mi)	<u>(mi)</u>
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)	11	0.7 mi.				

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

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

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

		<u>2018 %</u>							
		Improvement	<u>2033 %</u>		Realized				
		(prorating	Improvement	Realized Cha	<u>nge in</u> <u>Change i</u>	2033			
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>				
Rock Creek Phase III RM 0.5-1.5 (2016)		<u>1</u> 50%	60%		0.5	0.6			
Total Project Length		1			0.5	0.6			
Total # Projects	(0							
Tatal Change Miles Affastad (Mainhad for 2010)	0	-							
Total Stream Miles Affected (Weighted for 2018)	0.								
Total Stream Miles Affected (Weighted for 2033)	0.	6							
Total Stream Miles (Denominator)	110.	<u>7</u> mi.							
% Uplift (2018)	0.5%	ó							
% Uplift (2033)	0.5%	An earlier expert p	panel calculated 43% fu	nction of this lin	niting factor by 20	33. With an add	itional 0.5% uplift pro	ojected for 2033 the to	tal uplift will equal 43.5%

UGS16 - LF 8.1 (Water Quality: Temperature)

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

L	e	a	ς	ρ	ς	

<u>Action</u> Beaver Creek Releases	Permanent Acquisition	2016 3.5	2017 3.5	2018 3.5	
Total	0	3.5	3.5	3.5	
		Aver	age of leases		
			==>	3.5	
Total	3.5 cfs				
Total # Projects	1				
Denominator	cfs				
% Uplift (2018)	0.0%	Panelis	sts determined no bene	fit due to timing and mir	nimal amount of release.

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

(used as

denominator in

uplift

Stream Miles of Steelhead Use 17.8 mi calculation)

UGS17 - LF 1.1 (Anthropogenic Barriers)

Action No Actions	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Char 2018 (mi)	Realized nge in Change i (mi)	_
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)	1	7.8 mi.				
% Uplift (2018)	0.0	%				
% Uplift (2033)	0.0	%				

UGS17 - LF 4.1 (Riparian Vegetation)

		<u>2018 %</u>					
		Improvement	<u>2033 %</u>		Realized		
		(prorating	<u>Improvement</u>	Realized Change i	n Change in 2	033	
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>		
No Actions		_			0	0	
Total Project Length	()			0	0	
Total # Projects	()					
Total Stream Miles Affected (Weighted for 2018)	()					
Total Stream Miles Affected (Weighted for 2033)	()					
Total Stream Miles (Denominator)	17.8	<u>Mi.</u>					
% Uplift (2018)	0.0%						
% Uplift (2033)	0.0%	An earlier expert p	panel estimated a 1.7%	total uplift to this lim	niting factor by	2033 from lookback actions, which results in	66.7% by 2033.

UGS17 - LF 4.2 (LWD Recruitment)

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	
		(prorating	<u>Improvement</u>	Realized Change in	Change in 20	033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
No Actions		_		()	0
Total Project Length	0	<u>-</u>)	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 p	panel estimated a 0.8%	total uplift to this limi	ting factor by 2	033 from lookback actions, which results in 65.8% by 2033.

<u>UGS17 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Grande Ronde River Large Wood Restoration Complex (2018)	8	259	6 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%				

<u>UGS17 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)</u>

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
Grande Ronde River Large Wood Restoration Complex (2018)	8	0	9% 10%	5	0.8
Total Project Length	8	-		(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%
% Uplift (2033)	4.59

<u>UGS17 - LF 8.1 (Water Quality: Temperature)</u>

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	
		(prorating	<u>Improvement</u>	Realized Change in	Change in 203	33
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
No Actions		_)	0
Total Project Length	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%					

<u>UGS17- LF 9.2 (Water Quantity: Decreased Water Quantity)</u> <u>Leases</u>

Action No Actions	Permanent Acquisition	<u>2016</u>	2017	2018			
Total	0	0	0	0			
	Average of leases						
			==>	0.0			
Total	0.0 cfs	5					
Total # Projects	0						
Denominator	cfs	s E	Example: Base Flow				
% Uplift (2018)	#DIV/0!						

<u>UGS19</u> <u>Upper Grande Ronde River Mainstem and Tributaries, Clear Creek to Headwaters</u>

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 Booke nd	2015 Low Booke nd	Atlas Weight s for referen ce
ADDED	1.1	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.

<u>UGS19</u> <u>Upper Grande Ronde River Mainstem and Tributaries, Clear Creek to Headwaters</u>

(used as

denominator in

uplift

Stream Miles of Steelhead Use 5.4 mi calculation)

<u>UGS19 - LF 1.1 (Anthropogenic Barriers)</u>

2018 %

		,			
	<u>Impr</u>	<u>ovement</u>	2033 %	<u>!</u>	<u>Realized</u>
	<u>(proi</u>	ating	Improvement	Realized Change in (Change in 2033
<u>Action</u>	Miles treated factor	<u>r)</u>	(prorating factor)	2018 (mi)	<u>mi)</u>
Muir Creek Culvert Replacement (2018)	1.5	25%	6 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)

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

<u>UGS19 - LF 4.2 (LWD Recruitment)</u>

ealized
<u>ealizeu</u>
hange in 2033
<u>ni)</u>
0.1875
0.1875

<u>UGS19 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

Action No Actions	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change i 2018 (mi)	Realized in Change in 20 (mi)	033
Total Project Length Total # Projects	0				0	0
Total Stream Miles Affected (Weighted for 2018) Total Stream Miles Affected (Weighted for 2033) Total Stream Miles (Denominator)	C C 5.4					
% Uplift (2018) % Uplift (2033)	0.0%	-				

<u>UGS19 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)</u>

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	1
		(prorating	Improvement	Realized Chang	<u>e in</u> Change i	n 2033
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>	
No Actions					0	0
Total Project Length		0			0	0
Total # Projects		0				

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

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

(used as

denominator in

uplift

Stream Miles of Steelhead Use 8.4 mi calculation)

UGS20 LF 1.1 (Anthropogenic Barriers)

2018 %

		2010 /0			
		<u>Improvement</u>	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
South Fork Limber Jim Creek Culvert (2017)	1.5	25%	6 25%	0.375	0.375
Limber Jim Creek Culvert (2017)	1.25	25%	6 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%				

<u>UGS20 - LF 4.1 (Riparian Vegetation)</u>

Action Limber Jim Wood and Planting (2018, includes Plant Skydd Elk		2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in	Realized Change in 2033 (mi)
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%				

Action Limber Jim Wood and Planting (2018, includes Plant Skydd Elk	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change in 2018 (mi)	Realized Change in 2033 (mi)
Browse Control)		2 0)% 8%	50	0.15
Total Project Length		2		0	0.15
Total # Projects	:	1			
Total Stream Miles Affected (Weighted for 2018)	()			
Total Stream Miles Affected (Weighted for 2033)	0.15	5			
Total Stream Miles (Denominator)	8.4	<u>1</u> mi.			
% Uplift (2018)	0.0%	5			
% Uplift (2033)	1.8%	5			

<u>UGS20 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

Action Limber Jim Wood and Planting (2018, beaver dam analogues,	Miles treated	2018 % Improvement (prorating factor)	2033 %	Realized Change in	Realized Change in 2033 (mi)
spanner logs)	:	2 45	5% 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	Э			
Total Stream Miles Affected (Weighted for 2033)	0.9	9			
Total Stream Miles (Denominator)	8.4	<u>1</u> mi.			
% Uplift (2018)	10.7%	6			
% Uplift (2033)	10.7%	5			

<u>UGS20 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)</u>

		2018 %			
		<u>Improvement</u>	2033 %	<u>R</u>	<u>ealized</u>
		(prorating	<u>Improvement</u>	Realized Change in C	hange in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi) (ı	<u>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

(used as

denominator in

uplift

Stream Miles of Steelhead Use

31.6 mi

calculation)

<u>UGS21 - LF 1.1 (Anthropogenic Barriers)</u>

Action No actions	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change 2018 (mi)	Realized in Change in 3 (mi)	2033 0
Total Project Length	()			0	0
Total # Projects	()				
Total Stream Miles Affected (Weighted for 2018)	()				
Total Stream Miles Affected (Weighted for 2033)	()				
Total Stream Miles (Denominator)	31.6	õ mi.				
% Uplift (2018)	0.0%					
% Uplift (2033)	0.0%					

<u>UGS21 - LF 4.1 (Riparian Vegetation)</u>

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	
		(prorating	Improvement	Realized Change in	Change in	2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
Fly Creek-Smith Fence and Pods (2016)	1.5		15%	6)	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%					

<u>UGS21 - LF 4.2 (LWD Recruitment)</u>

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	<u>1</u>
		(prorating	<u>Improvement</u>	Realized Change	in Change	in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
Fly Creek-Smith Fence and Pods (2016)	1.5	<u>.</u>	0% 89	⁶	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%	1				

<u>UGS21 - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)</u>

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

<u>UGS21 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)</u>

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

<u>UGS21 - LF 8.1 (Water Quality: Temperature)</u>

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(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				
% 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 Booke nd	2015 Low Booke nd	Atlas Weight s for referen ce
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

(used as

denominator in

uplift

Stream Miles of Steelhead Use

Sheep Creek Culvert (2016, 2 culverts)

West Chicken Creek Culverts (2 culverts)

Action

Total Project Length
Total # Projects

32.1 mi

2

Miles treated

calculation)

UGS22- LF 1.1 (Anthropogenic Barriers)

	2018 %			
	Improvement	<u>2033 %</u>		Realized
	(prorating	Improvement	Realized Change in	Change in 2033
	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
5	5%	5%	0.25	0.25
2	25%	25%	0.5	0.5
7	-		0.75	0.75

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)

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

		2018 %			
		Improvement	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(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)	32.1	mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	1.9%				

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

Action No Actions	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change i 2018 (mi)	(mi)	3
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)	0.09	%				
% Uplift (2033)	0.09	%				

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

	<u>2018 %</u>			
	<u>Improvement</u>	<u>2033 %</u>		Realized
	(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
	5 0%	6 8%	0	0.375
	3 0%	6 8%	0	0.225
	8		0	0.6
	0			
	0			
0.	6			
32.	<u>1</u> mi.			
0.0%	ó			
1.9%	ó			
	0. 32. 0.0%	Improvement (prorating factor) 5 09	Improvement 2033 % (prorating Improvement (prorating factor) 5 0% 8% 8 0 8 0 6 6 32.1 mi. (D.0%)	Improvement 1033 %

UGS22 - LF 8.1 (Water Quality: Temperature)

	<u>2</u>	2018 %								
	<u>I</u>	mprovement	<u>2033 %</u>		Realized					
	1	prorating	Improvement	Realized Change	in Change in	2033				
<u>Action</u>	Miles treated f	actor)	(prorating factor)	2018 (mi)	<u>(mi)</u>					
Plant Skydd (Experimental Elk Browse Control, 2016-2017)	5	09	6 5%		0	0.25				
Sheep Creek Exclosure Fence (2017)	3	09	6 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 r	ni.								
% Uplift (2018)	0.0%									
% Uplift (2033)	1.2%	he uplift estimate	e was revised based on	updated mileage fo	or Sheep Creek	, resulting in	a 1.9% uplift that wa	as added to a 1.4%	uplift from look b	ack actions over time.

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

(used as

denominator in

uplift

Stream Miles of Chinook Use 18.3 mi calculation)

CCC2C - LF 1.1 (Anthropogenic Barriers)

Action No Actions	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Chang 2018 (mi)	Realized e in Change in (mi)	2033
Total Project Length	()			0	0
Total # Projects	()				
Total Stream Miles Affected (Weighted for 2018) Total Stream Miles Affected (Weighted for 2033) Total Stream Miles (Denominator)	((18.5					
% Uplift (2018)	0.0%					
% Uplift (2033)	0.0%					

CCC2C - LF 4.1 (Riparian Vegetation)

Action No Actions	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Chang 2018 (mi)	Realized ge in Change i (mi)	-
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%	1				

CCC2C - LF 4.2 (LWD Recruitment)

		<u>2018 %</u>				
		Improvement	<u>2033 %</u>		Realized	
		(prorating	Improvement	Realized Change	in Change in	2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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)	18.3 mi.
% Uplift (2018)	0.0%
% Uplift (2033)	0.0%

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

	2018 %				
	<u>Improvement</u>	<u>2033 %</u>		Realized	•
	(prorating	Improvement	Realized Chan	ge in Change i	n 2033
Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
				0	0
	0			0	0
	0				
	0				
	0				
18	3.3 mi.				
0.09	%				
0.09	%				
	18 0.0 9	Miles treated (prorating factor) 0 0 0	Miles treated (prorating factor) Improvement (prorating factor) 0 0 0 18.3 mi.	Improvement (prorating Improvement (prorating factor) Improvement (prorating factor) 2033 % Improvement (prorating factor) 2018 (mi)	Improvement (prorating factor) Improvement (prorating factor)

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

Action	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change 2018 (mi)	Realized in Change in 203 (mi)	3
No Actions	wiiics treated	<u>iactory</u>	(prorating factor)	2010 (1111)	0	0
NO ACTIONS					0	0
Total Project Length	0	•			0	0
Total # Projects	0)				
Total Miles Affected (Weighted for 2018) Total Miles Affected (Weighted for 2033) Total Stream Miles (Denominator)	0 0 18.3					
% Uplift (2018)	0.0%	,				
% Uplift (2033)	0.0%]				

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

<u>Action</u>	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Change	Realized e in Change in (mi)	2033
No Actions		_			0	0
Total Project Length)			0	0
Total # Projects	()				
Total Stream Miles Affected (Weighted for 2018)	()				
Total Stream Miles Affected (Weighted for 2033)	()				
Total Stream Miles (Denominator)	18.3	<u>mi.</u>				
% Uplift (2018)	0.0%	5				

% Uplift (2033) 0.0%

CCC2C - LF 6.2 (Channel Structure and Form: Instream Structural Complexity)

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

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

		2018 %			
		Improvement	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
Action	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
No Actions		_		0	0
Total Project Length	0	-		0	0
Total # Projects	0				
Total Characa Miles Affron J. (Marish and Co. 2000)					
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)

	4					
		<u>Leases</u>				
						Weighted
	Permanent				2018 Weighting	<u>CFS</u>
Action	<u>Acquisition</u>	2016	<u>2017</u>	2018	<u>Factor</u>	(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
Total	0	3.89	4.44	4.32		1.08

Average of leases

=> 4.2

 Weighted Total (2018)
 1.1 cfs

 Total # Projects
 1

 Denominator
 30 cfs

 % Uplift (2018)
 3.6%

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

CCC3A Middle Catherine Creek (Pyles Cr. To Swackhammer Diversion)

(used as

denominator in

uplift

Stream Miles of Chinook Use 3.7 mi calculation)

CCC3A - LF 1.1 (Anthropogenic Barriers)

<u>Action</u>	Miles treated	2018 % Improvement (prorating factor)	2033 % Improvement (prorating factor)	Realized Cha 2018 (mi)	Realized nge in Change i (mi)	n 2033
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)

		2018 %			
		Improvement	<u>2033 %</u>		Realized
	Miles	(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	<u>treated</u>	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
CC38 Habitat Enhancement Project (2017)	0.32	0%	6 15%		0.05
Total Project Length	0.3	-		(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>2018 %</u>

		Improvement	2033 %	<u>!</u>	Realized
	<u>Miles</u>	(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
CC38 Habitat Enhancement Project (2017)	0.32	2 0%	6 8%	60	0.024119318
Total Project Length	0.321590909	9		0	0.024119318
Total # Projects	1	1			
Total Stream Miles Affected (Weighted for 2018)	(1			
Total Stream Miles Affected (Weighted for 2013)	0.024119318				
Total Stream Miles (Denominator)		7 mi.			
% Uplift (2018)	0.0%				
% Uplift (2033)	0.7%				

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

2018 %

	2010 /0				
	Improvement		<u>2033 %</u>		Realized
Miles	(prorating		Improvement	Realized Change in	Change in 2033
<u>treated</u>	factor)		(prorating factor)	2018 (mi)	<u>(mi)</u>
0.11	2	5%	30%	0.028409091	0.034090909
0.113636364	•			0.028409091	0.034090909
1					
0.028409091					
0.034090909					
3.7	_mi.				
0.8%					
0.9%					
	0.11 0.113636364 1 0.028409091 0.034090909 3.7 0.8%	Miles (prorating treated factor)	Improvement (prorating factor) 0.11 25% 0.113636364 1 0.028409091 0.034090909 3.7 mi. 0.8%	Improvement 2033 %	Miles (prorating treated) Improvement factor) 2033 % Realized Change in 2018 (mi) 0.11 25% 30% 0.028409091 0.113636364 0.028409091 0.028409091 0.034090909 3.7 mi. 0.8%

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

2018 %

		Improvemen	<u>nt</u>	<u>2033 %</u>		Realized
	<u>Miles</u>	(prorating		<u>Improvement</u>	Realized Change in	Change in 2033
Action	<u>treated</u>	factor)		(prorating factor)	<u>2018 (mi)</u>	<u>(mi)</u>
CC38 Habitat Enhancement Project (2017)	0.0	02	25%	30%	0.004734848	0.005681818
Total Project Length	0.0)2			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)

2018 %

		2010 /0			
		<u>Improvement</u>	<u>2033 %</u>		Realized
	Miles	(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
Action	<u>treated</u>	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
CC38 Habitat Enhancement Project (2017)	0.23	15	5% 159	% 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)

2018 %

		<u>Improvement</u>	2033 %		Realized
	Miles	(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
Action	treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>
CC38 Habitat Enhancement Project (2017)	0.32	<u>2</u> 78	% 78%	0.250840909	0.250840909
Total Project Length	0.321590909)		0.250840909	0.250840909
Total # Projects	1	L			
Total Stream Miles Affected (Weighted for 2018)	0.250840909)			
Total Stream Miles Affected (Weighted for 2033)	0.250840909)			
Total Stream Miles (Denominator)	3.7	<u>7</u> mi.			
% Uplift (2018)	6.8%				
% Uplift (2033)	6.8%				

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

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		Realized
	Miles	(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	<u>treated</u>	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>
CC38 Habitat Enhancement Project (2017)	0.32	28%	36%	0.090045455	0.115772727
Total Project Length	0.32	<u>-</u>		0.090045455	0.115772727
Total # Projects	C)			
Total Stream Miles Affected (Weighted for 2018)	0.090045455				
Total Stream Miles Affected (Weighted for 2013)	0.030043433				
Total Stream Miles (Denominator)		7 mi.			
% Uplift (2018)	2.4%				
% Uplift (2033)	3.1%				

CCC3A - LF 8.1 (Water Quality: Temperature)

2018 %

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>2018 %</u>				
		Improvement	<u>2033 %</u>		Realized	
	Miles	(prorating	<u>Improvement</u>	Realized Change i	n Change in	2033
<u>Action</u>	treated	factor)	(prorating factor)	2018 (mi)	<u>(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 8.4 (Water Quality: Turbidity)

		2018 % Improvement	<u>2033 %</u>		Realized	<u>L</u>
	<u>Miles</u>	(prorating	<u>Improvement</u>	Realized Cha	ange in Change i	in 2033
<u>Action</u>	treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
					0	0
Total Project Length		0			0	0
Total # Projects		0				
Total Stroom Miles Affected (Meighted for 2019)		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)	0.09	%				
% Uplift (2033)	0.09	%				

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

		<u>Leases</u>				
						Weighted
	<u>Permanent</u>				2018 Weighting	<u>CFS</u>
<u>Action</u>	<u>Acquisition</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Factor</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
Total	0	2.62	3.165	3.045		2.80

Average of leases

> 2.9

Weighted Total (2018)

Total # Projects

Denominator

2.8 cfs

1

30 cfs

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

								£ial		final
								final order rate		order rate below
							order rate	at 10th St	at Davis	Davis
Transaction Name	certificate	lease	priority	term of deal	instream dates	certificate	at POD	gage	Dam	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

(used as

denominator in

uplift

Stream Miles of Chinook Use 14.4 mi calculation)

Miles treated

CCC3B - LF 1.1 (Anthropogenic Barriers)

<u>2018 %</u>
Improven

factor)

12.4

12.4

Realized **2033** % ment Realized Change in Change in 2033 Improvement (prorating (prorating factor) 2018 (mi) 50% 50% 6.2

<u>(mi)</u> 6.2 6.2 6.2

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)

2018 %

		Improvement	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
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 0.45 Total Stream Miles Affected (Weighted for 2033) Total Stream Miles (Denominator) 14.4 mi.

% Uplift (2018)

Action

CC Adult Weir (2018)

Total Project Length Total # Projects

0.0%

CCC3B - LF 4.2 (LWD Recruitment)

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
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%	50	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%				
% Uplift (2033)	1.6%				

CCC3B - LF 5.1 (Peripheral and Transitional Habitats: Side Channel and Wetland Conditions)

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
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	ļ.			
Total Miles Affected (Weighted for 2018)	2.4	ļ			
Total Miles Affected (Weighted for 2033)	2.4	ļ.			
Total Miles (Denominator)	14.4	mi.			
% Uplift (2018)	16.9%				
% Uplift (2033)	16.9%				

CCC3B - LF 5.2 (Peripheral and Transitional Habitats: Floodplain Condition)

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>	<u>R</u>	<u>tealized</u>
		(prorating	<u>Improvement</u>	Realized Change in C	change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi) (ı	<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.			
% Uplift (2018)	9.2%				
% Uplift (2033)	9.2%				

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

		<u>2018 %</u>			
		<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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.			
% Uplift (2018)	9.6%				
% Uplift (2033)	9.6%				

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

		<u>2018 %</u>			
		Improvement	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>
CC44 Phase 4 (2016)	0.53	83%	83%	0.4399	0.4399
Hall Ranch (2017)	1	100%	5 100%	1	1
Southern Cross (2016)	0.8	100%	5 100%	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.			
% Uplift (2018)	20.2%				
% Uplift (2033)	20.2%				

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

		2018 %			
		<u>Improvement</u>	<u>2033 %</u>		Realized
		(prorating	<u>Improvement</u>	Realized Change in	Change in 2033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(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.			
% Uplift (2018)	4.1%				
% Uplift (2033)	6.4%				

CCC3B - LF 8.1 (Water Quality: Temperature)

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

CCC3B - LF 9.2 (Water Quantity: Decrease	sed Water Quar	<u>itity)</u>				
		<u>Leases</u>				
	<u>Permanent</u>				2018 Weighting	Weighted CFS
<u>Action</u>	<u>Acquisition</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Factor</u>	<u>(2018)</u>
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	ODFW instre	am Flow target (30 cfs)	. 95% exceedance flow is	25 cfs.
% Uplift (2018)	1.6%					

										final
								final	final	order rate
							final	order rate	order rate	below
							order rate	at 10th St	at Davis	Davis
Transaction Name	certificate	lease	priority	term of deal	instream dates	certificated rate	at POD	gage	Dam	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

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

CCC5 N and S Forks Catherine Creek

(used as

denominator in

uplift

Stream Miles of Chinook Use 14.7 mi calculation)

CCC5 - LF 1.1 (Anthropogenic Barriers)

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		Improvement	2033 %		Realized
		(prorating	Improvement	Realized Change in (
Action	Miles treated	factor)	(prorating factor)		<u>mi)</u>
CC Adult Weir (2018)	14.7				3.675
Total Project Length	14.7	1		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)

		<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>	_
		(prorating	<u>Improvement</u>	Realized Chan	ige in Change i	n 2033
Action	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<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)	1	<u>4.7 mi.</u>				
% Uplift (2018)	0.0	%				
% Uplift (2033)	0.0	%				

CCC5 - LF 4.2 (LWD Recruitment)

		<u>2018 %</u>				
		<u>Improvement</u>	<u>2033 %</u>		Realized	
		(prorating	Improvement	Realized Change i	n Change in 2	033
<u>Action</u>	Miles treated	factor)	(prorating factor)	2018 (mi)	<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)	14.7	mi.				
% Uplift (2018)	0.0%					
% Uplift (2033)	0.0%					

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

COCO 1. O.2 (Chamber of actual Cambridge Complexity)							
		2018 %					
		<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>		
		(prorating	<u>Improvement</u>	Realized Change	in Change in 2033		
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<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)	1	4.7 mi.					
% Uplift (2018)	0.0	%					
% Uplift (2033)	0.0	%					

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

		2018 %				
		<u>Improvement</u>	<u>2033 %</u>		<u>Realized</u>	
		(prorating	<u>Improvement</u>	Realized Change i	n Change in 20	133
<u>Action</u>	Miles treated	<u>factor)</u>	(prorating factor)	2018 (mi)	<u>(mi)</u>	
No Actions		_			0	0
Total Project Length	()			0	0
Total # Projects	()				

Total Stream Miles Affected (Weighted for 2033)	0
Total Stream Miles (Denominator)	14.7 mi.
% Uplift (2018)	0.0%
	0.0%

CCC5 - LF 8.1 (Water Quality: Temperature)

	<u>2018 %</u>				
	<u>Improvement</u>	<u>2033 %</u>		Realized	
	(prorating	<u>Improvement</u>	Realized Change	e in Change ir	2033
Miles treated	factor)	(prorating factor)	2018 (mi)	<u>(mi)</u>	
				0	0
()			0	0
()				
()				
()				
14.7	7 mi.				
0.0%					
0.0%					
	14.7 0.0%	Improvement (prorating	Miles treated Improvement (prorating factor) Improvement (prorating factor)	Miles treated (prorating factor) (prorating factor) (prorating factor) 2018 (mi)	Miles treated Improvement (prorating Improvement Realized Change in Change in (mi)

CCC5- LF 9.2 (Water Quantity: Decreased Water Quantity)						
	<u>Leases</u>					
	<u>Permanent</u>					
<u>Action</u>	<u>Acquisition</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	e: Base Flow			
% Uplift (2018)	0.0%					