

Workbook Info

Project:

Expert Panel 2015-2016

Meeting:

Lower Salmon Look Back Process

Primary Data Recorder:

Nick Legg, Geomorphologist, Cardno Inc.

Latest Revision:

5/23/2016

Filename:

LowerSalmonEP_CalcSpreadsheet_LookForward_QA_5-23-16.xlsx

Workbook Description

This workbook is the "Calculation Spreadsheet" for the Expert Panel Look Forward Process in the Lower Salmon Basin (meeting 4/20-4/21/2016) . The calculation spreadsheet captures numerical details of planned actions from 2016-2018 and functional uplift calculations. This table was created in support of the biological notes contained in the spreadsheets below. The biological notes spreadsheet also documents the rationale underlying this spreadsheet.

Biological Notes Spreadsheets

Steelhead:

LowSalm_Steelhead_HabFunctions_2013-2018_LB&LF_BioNotes_QA_5-23-16.xlsx

Chinook:

LowSalm_Chinook_HabFunctions_2013-2018_LB&LF_BioNotes_QA_5-23-16.xlsx

Sheets:

Sheets are produced for individual Assessment Units and named by the Assessment Unit Code. LFWeight sheets were produced for assessment units where either weighting or low bookends were revised.

Fish Bearing Lengths by AU for each species (according to Streamnet)

Chinook Assessment Units

Au Name	Au Code	Watershed Area (mi ²)	Chinook Stream Miles (Stream Net)*
Secesh River	SEC1	247.5	63
EFSF Salmon and Tribs	SSC1A	203.8	47.1
Johnson Creek	SSC1B	218	52.8
Upper SF Salmon Tribs above EFSF Salmon (High Idaho Batholith Tribs - from the headwaters to the mouth of EFSF Salmon)	SSC2	352.2	42.1
Lower SF Salmon Tribs below EFSF Salmon (Hot Dry Canyon Tribs - from mouth of EFSF Salmon to mouth of SF Salmon)	SSC3	270.9	13.9
Mainstem SF Salmon	SSC4	17.3	86.2
Lower Big Creek	BCC1A	279.9	46.3
Upper Big Creek	BCC1B	316	69.1

Steelhead Assessment Units

AuName	AuCode	Watershed Area (mi ²)	Steelhead Stream Miles (StreamNet)*
Lower Big Creek	MLS1A	279.9	92.5
Upper Big Creek	MLS1B	316	115.8
Secesh River	SES1	247.5	69.3
EFSF Salmon and Tribs	SSS1A	203.8	60.4
Johnson Creek	SSS1B	218	77.4
Upper SF Salmon Tribs above EFSF Salmon (High Idaho Batholith Tribs - from the headwaters to the mouth of EFSF Salmon)	SSS2	352.2	96.8
Lower SF Salmon Tribs below EFSF Salmon (Hot Dry Canyon Tribs - from mouth of EFSF Salmon to mouth of SF Salmon)	SSS3	270.9	20.1
Mainstem SF Salmon	SSS4	17.3	91.9

SEC1 **Secesh River**

Stream Miles Denominator used in Uplift
Calculation (in appropriate Limiting Factors) 78.3 mi

SEC1 - LF 1.1 (Anthropogenic Barriers)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
Jeannette Creek Culvert Replace (2017)	0.8	50%	0.4
Total Project Length	0.8		0.4
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	0.4		
Total Stream Miles (Denominator)	78.3 mi.		
% Uplift (2018)	0.5%		

SEC1 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
Secesh Face Road Decommissioning (13 mi. road, 2.48 streammiles, 2018)	2.48	80%	1.984
Total Project Length	2.48		1.984
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	1.984		
Total Stream Miles (Denominator)	78.3 mi.		
% Uplift (2018)	2.53%		

* Note, panel thought this value was low, but elected to stay with their protocol for calculating uplift from road decommissioning.

SSC1A

EFSF Salmon and Tribs

Stream Miles Denominator used in Uplift Calculation (in appropriate Limiting Factors)

51 mi

SSC1A - LF 1.1 (Anthropogenic Barriers)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	51 mi.		
% Uplift (2018)	0.0%		

SSC1A - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
EFSF Road Graveling (Midas Gold, 2016; road and stream miles = 5.5)	5.5	40%	2.2
Sugar Creek Road Improvement (USFS; 5.04 road and 1.83 stream miles, 2016)	1.83	40%	0.732
Sugar Creek Ford Restoration (USFS; inc. downstream effects, 2016)	0.1	100%	0.1
Total Project Length	7.43		3.032
Total # Projects	3		
Total Stream Miles Affected (Weighted for 2018)	3.032		
Total Stream Miles (Denominator)	51 mi.		
% Uplift (2018)	5.9%		

SSC1A - LF 8.1 (Water Quality: Temperature)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	51 mi.		
% Uplift (2018)	0.0%		

SSC1A - LF 8.7 (Water Quality: Toxic Contaminants)

<u>Action</u>	<u>Miles affected</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
Cinnabar Mine Rehabilitation (2016)	5.5	5%	0.275
Total Project Length	5.5		0.275
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	0.275		
Total Stream Miles (Denominator)	51 mi.		
% Uplift (2018)	0.5%		

SSC1B

Sum of Revised Weights

100%

0%

[illegible]

Sum of Revised Weights

100%

0%

SSC1B

Johnson Creek

Stream Miles Denominator used in Uplift Calculation (in appropriate Limiting Factors)

63.3 mi

SSC1B - LF 1.1 (Anthropogenic Barriers)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
Cox Creek Culvert Replacement (2 culverts)	0.4	100%	0.4
Total Project Length	0.4		0.4
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	0.4		
Total Stream Miles (Denominator)	63.3 mi.		
% Uplift (2018)	0.6%		

SSC1B - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
Johnson Creek Road Improvement Project (Graveling, 8.3 road and stream miles)	8.3	40%	3.32
Total Project Length	8.3		3.32
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	3.32		
Total Stream Miles (Denominator)	63.3 mi.		
% Uplift (2018)	5.2%		

SSC1B - LF 8.1 (Water Quality: Temperature)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
Cox Creek Riparian Planting (2016-2018)	0.4	5%	0.02
Ice Hole Campground Planting & Fencing (2016)	0.120	5%	0.006
Total Project Length	0.52		0.026
Total # Projects	2		
Total Stream Miles Affected (Weighted for 2018)	0.026		
Total Stream Miles (Denominator)	63.3 mi.		
% Uplift (2018)		0.04%	

SSC2

Sum of Revised Weights

100%

0%

AU Code	Limiting Factor ID #	2012 AU Weight	2012 LF Weight	Revised LF Weight	Change in Weight	2012 Low Bookend	2015 Low Bookend	Revised 2015 Low Bookend
SSC2	1.1	0%		0%	0%			
SSC2	7.2	100%		100%	0%	75		35

Sum of Revised Weights

100%

0%

SSC2

Upper SF Salmon Tribs above EFSF Salmon (High Idaho Batholith Tribs - from the headwaters to the mouth of EFSF Salmon)

Stream Miles Denominator used in Uplift
Calculation (in appropriate Limiting Factors)

54.2 mi

SSC2 - LF 1.1 (Anthropogenic Barriers)

Action	Streammiles treated	2018 % Improvement (prorating factor)	Realized Change in 2018 (mi)
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	54.2 mi.		
% Uplift (2018)	0.0%		

SSC2 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Streammiles treated	2018 % Improvement (prorating factor)	Realized Change in 2018 (mi)
Two Bit and Six Bit Sub Watershed in Upper SFSR Road Decommissioning (2014, 7.8 road miles, 2.4 streammiles)	2.4	80%	1.92
Nickel and Dime Road Decommissioning (2015, 12.7 road miles, 1.74 streammiles)	1.74	80%	1.392
Nickel and Dime Road Decommissioning (2016, 10 miles road, 1.26 streammiles)	1.26	80%	1.008
Dollar Creek Decommissioning (2017-18, 40 miles road, 6.93 streammiles)	6.93	80%	5.544
Total Project Length	12.33		9.864
Total # Projects	4		
Total Stream Miles Affected (Weighted for 2018)	9.864		
Total Stream Miles (Denominator)	54.2 mi.		
% Uplift (2018)	18.2%		

SSC3

Lower SF Salmon Tribs below EFSF Salmon (Hot Dry Canyon Tribs - from mouth of EFSF Salmon to mouth of SF Salmon)

Stream Miles Denominator used in Uplift
Calculation (in appropriate Limiting Factors)

9.7 mi

SSC3 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	9.7 mi.		
% Uplift (2018)	0.0%		

SSC4

Mainstem SF Salmon

Stream Miles Denominator used in Uplift
Calculation (in appropriate Limiting Factors)

84.9 mi

SSC4 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Streammiles treated	2018 % Improvement (prorating factor)	Realized Change in 2018 (mi)
SF Salmon Fishing Trail Improvement Project (10,000 linear feet of bank stabilization, 2016)	1.9	20%	0.378787879
Total Project Length	1.893939394		0.378787879
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	0.378787879		
Total Stream Miles (Denominator)	84.9 mi.		
% Uplift (2018)	0.4%		

BCC1A **Lower Big Creek**

Stream Miles Denominator used in Uplift Calculation (in appropriate Limiting Factors)

46.3 mi

BCC1A - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	46.3 mi.		
% Uplift (2018)	0.0%		

BCC1B

Upper Big Creek

Stream Miles Denominator used in Uplift Calculation
(in appropriate Limiting Factors)

82.7 mi

BCC1B - LF 1.1 (Anthropogenic Barriers)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	82.7 mi.		
% Uplift (2018)	0.0%		

BCC1B - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
North Fork Smith Creek Bridge (2016)	0.1	100%	0.1
Big Creek Bridge (2016)	0.1	100%	0.1
Big Creek Road Decommissioning (8.4 road miles, 0.81 streammiles, 2017)	0.81	80%	0.648
Total Project Length	1.01		0.848
Total # Projects	3		
Total Stream Miles Affected (Weighted for 2018)	0.848		
Total Stream Miles (Denominator)	82.7 mi.		
% Uplift (2018)	1.0%		

BCC1B - LF 8.7 (Water Quality: Toxic Contaminants)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	82.7 mi.		
% Uplift (2018)	0.0%		

SES1

Secesh River

Stream Miles Denominator used in Uplift
Calculation (in appropriate Limiting Factors)

152.1 mi

SES1 - LF 1.1 (Anthropogenic Barriers)

Action	Streammiles treated	2018 % Improvement (prorating factor)	Realized Change in 2018 (mi)
Jeannette Creek Culvert Replace (2017)	0.8		50% 0.4
Total Project Length	0.8		0.4
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	0.4		
Total Stream Miles (Denominator)	152.1 mi.		
% Uplift (2018)	0.3%		

SES1 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Streammiles treated	2018 % Improvement (prorating factor)	Realized Change in 2018 (mi)
Secesh Face Road Decommissioning (13 mi. road, 2.48 streammiles, 2018)	2.48	80%	1.984
Total Project Length	2.48		1.984
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	1.984		
Total Stream Miles (Denominator)	152.1 mi.		
% Uplift (2018)	1.30%	* Note, panel thought this value was low, but elected to stay with their protocol for calculating uplift from road decommissioning.	

SSS1A

Calculation (in appropriate Limiting Factors)

98.5 mi

SSS1A - LF 1.1 (Anthropogenic Barriers)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	98.5 mi.		
% Uplift (2018)	0.0%		

SSS1A - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
EFSF Road Graveling (Midas Gold, 2016; road and stream miles = 5.5)	5.5	40%	2.2
Sugar Creek Road Improvement (USFS; 5.04 road and 1.83 stream miles, 2016)	1.83	40%	0.732
Sugar Creek Ford Restoration (USFS; inc. downstream effects, 2016)	0.1	100%	0.1
Total Project Length	7.43		3.032
Total # Projects	3		
Total Stream Miles Affected (Weighted for 2018)	3.032		
Total Stream Miles (Denominator)	98.5 mi.		
% Uplift (2018)	3.1%		

SSS1A - LF 8.1 (Water Quality: Temperature)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	98.5 mi.		
% Uplift (2018)	0.0%		

SSS1A - LF 8.7 (Water Quality: Toxic Contaminants)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
Cinnabar Mine Rehabilitation (2016)	5.5	5%	0.275
Total Project Length	5.5		0.275
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	0.275		
Total Stream Miles (Denominator)	98.5 mi.		
% Uplift (2018)	0.3%		

SSS1B

Stream Miles Denominator used in Uplift
Calculation (in appropriate Limiting Factors)

101.8 mi

SSS1B - LF 1.1 (Anthropogenic Barriers)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions (Cox Creek counted in Look back for steelhead)			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	101.8 mi.		
% Uplift (2018)	0.0%		

SSS1B - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
Johnson Creek Road Improvement Project (Graveling, 8.3 road and stream miles)	8.3	40%	3.32
Total Project Length	8.3		3.32
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	3.32		
Total Stream Miles (Denominator)	101.8 mi.		
% Uplift (2018)	3.3%		

SSS1B - LF 8.1 (Water Quality: Temperature)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
Cox Creek Riparian Planting (2016-2018)	0.4	5%	0.02
Ice Hole Campground Planting & Fencing (2016)	0.120	5%	0.006
Total Project Length	0.52		0.026
Total # Projects	2		
Total Stream Miles Affected (Weighted for 2018)	0.026		
Total Stream Miles (Denominator)	101.8 mi.		
% Uplift (2018)	0.03%		

SSS2

Upper SF Salmon Tribs above EFSF Salmon (High Idaho Batholith Tribs - from the headwaters to the mouth of EFSF Salmon)

Stream Miles Denominator used in Uplift
Calculation (in appropriate Limiting Factors)

146.7 mi

SSS2 - LF 1.1 (Anthropogenic Barriers)

Action	Streammiles treated	2018 % Improvement (prorating factor)	Realized Change in 2018 (mi)
No actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	146.7 mi.		
% Uplift (2018)	0.0%		

SSS2 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Streammiles treated	2018 % Improvement (prorating factor)	Realized Change in 2018 (mi)
Two Bit and Six Bit Sub Watershed in Upper SFSR Road Decommissioning (2014, 7.8 road miles, 2.4 streammiles)	2.4	80%	1.92
Nickel and Dime Road Decommissioning (2015, 12.7 road miles, 1.74 streammiles)	1.74	80%	1.392
Nickel and Dime Road Decommissioning (2016, 10 miles road, 1.26 streammiles)	1.26	80%	1.008
Dollar Creek Decommissioning (2017-18, 40 miles road, 6.93 streammiles)	6.93	80%	5.544
Total Project Length	12.33		9.864
Total # Projects	4		
Total Stream Miles Affected (Weighted for 2018)	9.864		
Total Stream Miles (Denominator)	146.7 mi.		
% Uplift (2018)	6.7%		

SSS3

Lower SF Salmon Tribs below EFSF Salmon (Hot Dry Canyon Tribs - from mouth of EFSF Salmon to mouth of SF Salmon)

Stream Miles Denominator used in Uplift
Calculation (in appropriate Limiting Factors)

89.5 mi

SSS3 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	89.5 mi.		
% Uplift (2018)	0.0%		

SSS4

Mainstem SF Salmon

Stream Miles Denominator used in Uplift
Calculation (in appropriate Limiting Factors)

88.7 mi

SSS4 - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Streammiles treated	2018 %	Realized Change in 2018 (mi)
		Improvement (prorating factor)	
SF Salmon Fishing Trail Improvement Project (10,000 linear feet of bank stabilization, 2016)	1.9	20%	0.378787879
Total Project Length	1.893939394		0.378787879
Total # Projects	1		
Total Stream Miles Affected (Weighted for 2018)	0.378787879		
Total Stream Miles (Denominator)	88.7 mi.		
% Uplift (2018)	0.4%		

MLS1A **Lower Big Creek**

Stream Miles Denominator used in Uplift Calculation (in appropriate Limiting Factors)

125.8 mi

MLS1A - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	125.8 mi.		
% Uplift (2018)	0.0%		

MLS1B Upper Big Creek

Stream Miles Denominator used in Uplift
Calculation (in appropriate Limiting Factors)140 mi

MLS1B - LF 1.1 (Anthropogenic Barriers)

Action	Streammiles treated	2018 % Improvement (prorating factor)	Realized Change in 2018 (mi)
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	140 mi.		
% Uplift (2018)	0.0%		

MLS1B - LF 7.2 (Sediment Conditions: Increased Sediment Quantity)

Action	Streammiles treated	2018 % Improvement (prorating factor)	Realized Change in 2018 (mi)
North Fork Smith Creek Bridge (2016)	0.1	100%	0.1
Big Creek Bridge (2016)	0.1	100%	0.1
Big Creek Road Decommissioning (8.4 road miles, 2.36 streammiles, 2017)	2.36	80%	1.888
Total Project Length	2.56		2.088
Total # Projects	3		
Total Stream Miles Affected (Weighted for 2018)	2.088		
Total Stream Miles (Denominator)	140 mi.		
% Uplift (2018)	1.5%		

MLS1B - LF 8.7 (Water Quality: Toxic Contaminants)

<u>Action</u>	<u>Streammiles treated</u>	<u>2018 % Improvement (prorating factor)</u>	<u>Realized Change in 2018 (mi)</u>
No Actions			0
Total Project Length	0		0
Total # Projects	0		
Total Stream Miles Affected (Weighted for 2018)	0		
Total Stream Miles (Denominator)	140 mi.		
% Uplift (2018)	0.0%		