NOTES:

This workbook contains **habitat functions** data downloaded directly from the Taurus database. Functions include those documented during the **Look Forward** process covering the **2016-2018** work window for steelhead.

ESU	Population	Code	Assessme nt Unit	2012 Standardized Limiting Factor		Low Bookend	2018	Updated 2018 Estimate	High 2018 Bookend		_	LF Weight and Bookends Comments	Estimates Comments
Snake River Steelhead	East Fork Salmon	EFS1	Bayhorse Creek	1.1: Habitat Quantity: Anthropogen ic Barriers	20.00%	100	70	100		70	100	low bookend raised from 20, 8/9/12	bayhorse ck 2 and 4 diversion were consolidated in 2011; doesn't include bayhorse 1 2016: No actions, therefore no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS1	Bayhorse Creek	2.3: Injury and Mortality: Mechanical Injury	20.00%	57.5	57.5	57.5		20	100		2016: no actions, therefore no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS1	Bayhorse Creek	4.1: Riparian Condition: Riparian Vegetation	20.00%	90	90	90		90	92		2016: No actions, therefore no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS1	Bayhorse Creek	7.2: Sediment Conditions: Increased Sediment Quantity	20.00%	45	45	45		45	50		2016: No actions, therefore no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS1	Bayhorse Creek	9.2: Water Quantity: Decreased Water Quantity	20.00%	47.9	47.9	75.8		20	71		2016: Flow project from the Look Back extending into the 2016-2018 period was carried forward and added to Look Forward improvement calculations. Therefore, average of 2.2 cfs/year relative to 8 cfs across the assessment unit(Morgan Case IDWR) = 27.9% improvement
Snake River Steelhead	East Fork Salmon River	EFS2	Challis Creek	1.1: Habitat Quantity: Anthropogen ic Barriers		80	80	80		85	100		Actions high up in stream benefit steelhead not Chinook 2016: No actions, therefore no change to low bookend
Snake River Steelhead	Salmon	EFS2	Challis Creek		10.00%	60	60	60		60.5	70		Some improvement from project addressing Decreased Water Quantity LF 2016: No actions, therefore no change to low bookend

ESU	Population	Code	Assessme nt Unit	2012 Standardized Limiting Factor			2018		High 2018 Bookend		_	LF Weight and Bookends Comments	Estimates Comments
Snake River Steelhead	Salmon	EFS2	Challis Creek	7.2: Sediment Conditions: Increased Sediment Quantity	20.00%	40	40	40		40	45		2016: No actions, therefore no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS2	Challis Creek	8.1: Water Quality: Temperature		50	50	50		50.1	65		2016: no actions, therefore no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS2	Challis Creek	9.2: Water Quantity: Decreased Water Quantity	40.00%	32	32	32		33	50		2016: no actions, therefore no change to low bookend
Snake River Steelhead	Salmon	EFS3	EF Salmon River	1.1: Habitat Quantity: Anthropogen ic Barriers	10.00%	93	93	93		94	100		2016: No actions, therefore no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS3	EF Salmon River	2.3: Injury and Mortality: Mechanical Injury	10.00%	70	70	70		70	90		Not enough info on Weir project to assess improvements at 8/9/12 workshop 2016: No actions, therefore no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS3	EF Salmon River		25.00%	60.6	60.6	60.6		60	90		2016: No actions, therefore no change to low bookend
Snake River Steelhead	Salmon	EFS3	River	6.1: Channel Structure and Form: Bed and Channel Form		50	50	50		52	65		need alternative to push up dams in high velocity/bedload environment several other treatments needed 2016: No actions, therefore no change to low bookend
Snake River Steelhead	Salmon	EFS3	EF Salmon River	7.2: Sediment Conditions: Increased Sediment Quantity	15.00%	71	71	71		71	80		2016: No actions, therefore no change to low bookend

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				2012									
				Standardized		_	"	Updated		Original			
ECLI	Danielatian	C. J.	Assessme	_		Low	2018	2018	High 2018			LF Weight and	Estimates Community
	Population		nt Unit	Factor	LF Weight			Estimate	Bookend				Estimates Comments
	East Fork	EFS3		9.2: Water	15.00%	60	60	60		61	80		2016: No actions, therefore no
	Salmon		River	Quantity:								from 40, 8/9/12	change to low bookend
Steelhead	River			Decreased									
				Water									
	1			Quantity	0.000/								
Snake	East Fork	EFS4		1.1: Habitat	0.00%						0		
	Salmon		Tributarie	1									
Steelhead	River		S	Anthropogen									
				ic Barriers									
Snake	East Fork	EFS4	EF Salmon		20.00%	70	70	70		75	90		3 diversions on Road Ck reamining;
	Salmon		Tributarie										2016: No actions, therefore no
Steelhead	River		S	Mortality:									change to low bookend
				Mechanical									
				Injury	00.000/								
Snake	East Fork	EFS4		9.2: Water	80.00%	30	30	30		30	60		2016: No actions, therefore no
River	Salmon		Tributarie	1									change to low bookend
Steelhead	River		S	Decreased									
				Water									
	1			Quantity	20.000/	2.0		10.1					
Snake	East Fork	EFS5	Garden	1.1: Habitat	20.00%	34.8	34.8	43.1		30	60		2016: 2 miles opened upstream, but
	Salmon		Creek	Quantity:									prorated to account for life stage = 1
Steelhead	River			Anthropogen									mile treated relative to 12 steelhead
				ic Barriers									bearing miles in assessment unit =
Coolo	F. J. F. J.	FFCF	6	2.2.1.1	40.000/	62	62	62		20	60		8.3% uplift
Snake	East Fork	EFS5	Garden	2.3: Injury	10.00%	62	62	62		20	60		2016: No actions, therefore no
	Salmon		Creek	and									change to low bookend
Steelhead	River			Mortality:									
				Mechanical									
Circlin	F. J. F. J.	FFCF	6	Injury	20.000/	25	25	25		25	50		2046 November of the section of
Snake	East Fork	EFS5	Garden		20.00%	35	35	35		35	50		2016: No actions, therefore no
	Salmon		Creek	Condition:									change to low bookend
Steelhead	River			Riparian									
Cnaka	Foot Fords	LECE	Cardan	Vegetation	10.000/	60	60	60		60	75		2016. No actions therefore as
Snake	East Fork	EFS5	Garden	7.2:	10.00%	lon lon	60	60		60	75		2016: No actions, therefore, no
River	Salmon		Creek	Sediment									change to low bookend
Steelhead	Kiver			Conditions:									
				Increased									
				Sediment									
				Quantity	1		1			1		l	

	Population		Assessme nt Unit	Factor	LF Weight	-	Original 2018 Estimate	Updated 2018 Estimate	High 2018		Bookend	LF Weight and Bookends Comments	Estimates Comments
	East Fork Salmon River	EFS5	Garden Creek	9.2: Water Quantity: Decreased Water Quantity	40.00%	26.1	26.1	26.1		25	50		Garden Ck. project to add abt 3 cfs 2016: No actions, therefore no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS6	Herd Creek	1.1: Habitat Quantity: Anthropogen ic Barriers		71	71	71		75	80	high bookend reflects natural barriers that block access to entire AU	2016: No actions, therefore, no change to low bookend
	East Fork Salmon River	EFS6	Herd Creek	4.1: Riparian Condition: Riparian Vegetation	40.00%	60	60	60		60	80		2016: No actions, therefore, no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS6	Herd Creek	7.2: Sediment Conditions: Increased Sediment Quantity	30.00%	70	70	70		70	80		2016: No actions, therefore, no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS6	Herd Creek	9.2: Water Quantity: Decreased Water Quantity	20.00%	65	65	65		70	80		8 cfs potential HC-3 pipeline from Lake Ck 2016: No actions, therefore, no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS7	Mainstem Salmon River	4.1: Riparian Condition: Riparian Vegetation	15.00%	27.02	27.02	27.02		25	35		Remember to update 2015 look-back w/any 12-mi reach easements/projects implemented after 2012 2016: No actions, therefore, no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS7	Mainstem Salmon River	5.2: Peripheral and Transitional Habitats: Floodplain Condition	30.00%	60	60	60		60	80		Remember to update 2015 look-back w/any 12-mi reach easements/projects implemented after 2012 2016: No actions, therefore, no change to low bookend
Snake River Steelhead	East Fork Salmon River	EFS7	Mainstem Salmon River			60	60	60		60	80		Remember to update 2015 look-back w/any 12-mi reach easements/projects implemented after 2012 2016: No actions, therefore, no change to low bookend

	Population		Assessme nt Unit	Factor	LF Weight		2018 Estimate	Estimate	High 2018 Bookend	Estimate	Bookend	LF Weight and Bookends Comments	
Snake River Steelhead	Salmon	EFS7	Mainstem Salmon River	7.2: Sediment Conditions: Increased Sediment Quantity	10.00%	50	50	50		50	85		Remember to update 2015 look-back w/any 12-mi reach easements/projects implemented after 2012 2016: No actions, therefore, no change to low bookend
Snake River Steelhead	Salmon	EFS7	Mainstem Salmon River	8.1: Water Quality: Temperature	15.00%	50	50	50		50	60		Remember to update 2015 look-back w/any 12-mi reach easements/projects implemented after 2012 2016: No actions, therefore, no change to low bookend
Snake River Steelhead	Salmon River	EFS8	Morgan Creek	2.3: Injury and Mortality: Mechanical Injury		50	50	50			80		2016: No actions, therefore, no change to low bookend
Snake River Steelhead	Salmon	EFS8	Morgan Creek	4.1: Riparian Condition: Riparian Vegetation	20.00%	60	60	60		60	75		2016: No actions, therefore, no change to low bookend
Snake River Steelhead	Salmon	EFS8	Morgan Creek	7.2: Sediment Conditions: Increased Sediment Quantity	10.00%	20	20	20		20	25		2016: No actions, therefore, no change to low bookend
Snake River Steelhead	Salmon	EFS8	Morgan Creek	8.1: Water Quality: Temperature		61.8	61.8	64.1		60	70		2016: the expert panel assumes temperature is a function of flow and riparian condition (shading potential), therefore they assume the benefit of actions for this limiting factor is the combination of the benefits of riparian condition (LF 4.1=0) and flow (LF 9.2=2.3). Thus 0+2.3=2.3%

ESU	Population	Code	Assessme nt Unit	_	LF Weight	Low Bookend	2018	Updated 2018 Estimate	High 2018 Bookend		_	LF Weight and Bookends Comments	Estimates Comments
	East Fork Salmon River	EFS8	Morgan Creek	9.2: Water Quantity: Decreased Water Quantity	40.00%	36.8	36.8	39.1		35	85		2016: Leases extending through 2018 were carried forward and applied to look forward benefits. One flow agreement for 2 cfs/year was averaged across 3 years (1.3 cfs) and made relative to the summation of diversions in the assessment unit (Morgan Case; 57 cfs) = 2.3% improvement
	East Fork Salmon River	EFS9	River	9.2: Water Quantity: Decreased Water Quantity	100.00%	32.2	32.2	32.2		30	60		2016: No actions, therefore no change to low bookend
Snake River Steelhead	Lemhi River	LRS2	Salmon	1.1: Habitat Quantity: Anthropogen ic Barriers	1.00%	85	85	85		85.25	90	stranding changed from 51/60, 8/8/12	evaluated only on L-1 project PLUS I- 63, L-54, and L58a (described under LF 9.2) 2016: No actions, therefore no change to low bookend
Snake River Steelhead	Lemhi River	LRS2	and Lemhi Rivers and	and	2.00%	91.25	91.25	91.25		91	95		Assumes 10 screen replacements are maintaining current function, not improving. Other screen projects are improving. Remaining screens include Basin Ck., some additional Backdoor issues 2016: No actions, therefore no change to low bookend.
Snake River Steelhead	Lemhi River	LRS2	Salmon and Lemhi	4.1: Riparian Condition: Riparian Vegetation	15.00%	35.1	35.1	35.3		38	40		2016: Prorated for realized improvements by 2018, 0.3 stream miles were treated. Relative to the 107.8 steelhead bearing stream miles in the assessment unit (StreamNET?), there was a 0.2% imrpovement

				2012				l					
				Standardized			_	Updated		Original		reservition and	
ECLI	5		Assessme	_		Low	2018		High 2018		_	LF Weight and	5
	Population				LF Weight				Bookend			Bookends Comments	
Snake	Lemhi River	LRS2	Mainstem		10.00%	20.7	20.7	22.5		21	30		Estimate 3.22 miles side channel
River				Peripheral									enhancement.
Steelhead			and Lemhi										2016: Prorated for realized
				Transitional									improvements by 2018, 1.9 stream
			· ·	Habitats:									miles were treated (5 projects).
				Floodplain									Relative to the 107.8 steelhead
				Condition									bearing stream miles in the
													assessment unit (StreamNET?), there
													was a 1.8% improvement
Snake	Lemhi River	LRS2		6.1: Channel	13.00%	40.8	40.8	43		42	60		Riparian & floodplain LF projects also
River			l .	Structure and									contribute.
Steelhead				Form: Bed									2016: Prorated to reflect realized
				and Channel									improvement by 2018, 2.41 stream
			Hayden	Form									miles were treated (8 projects).
			Creek										Relative to the 107.8 steelhead
													bearing stream miles in the
													assessment unit, there was a 2.2%
													improvement.
Snake	Lemhi River				l	23	23	25.3					2016: Prorated to reflect realized
River				Structure and									improvement by 2018, 2.48 stream
Steelhead			and Lemhi										miles were treated (9 projects).
			Rivers and										Relative to the 107.8 steelhead
			1	Structural									bearing stream miles in the
			Creek	Complexity									assessment unit, there was a 2.3%
													improvement.
Snake	Lemhi River		Mainstem		8.00%	30.8	30.5	31		31	35		Projects addressing other LF;'s in this
River				Sediment									AU considered for this estimate.
Steelhead				Conditions:									2016: Prorated to reflect realized
			Rivers and										improvement by 2018, 0.21269
			· ·	Sediment									stream miles were treated (8
			Creek	Quantity									projects). Relative to the 107.8
													steelhead bearing stream miles in the
													assessment unit, there was a 0.2%
													improvement.

				1									
				2012				l					
				Standardized			_	Updated		Original		research to a sale	
EC. I	Damulatian	Cada	Assessme	_		Low	2018		High 2018		_	LF Weight and	Fatimates Community
	Population		nt Unit	Factor	LF Weight			Estimate	Bookend			Bookends Comments	Estimates Comments
Snake	Lemhi River	LKS2		8.1: Water	10.00%	35.6	35.6	47.8		30	45		Projects addressing other LF's in this
River			Salmon	Quality:									AU considered for this estimate
Steelhead				Temperature									2016: Due to the difficulty measuring
			Rivers and										temperature improvements, the
			Hayden Creek										Expert Panel assumes the additive
			Creek										benefits of riparian condition = shading, and flow = water depth and
													movement is a reasonable proxy. Therefore improvements to riparian
													condition = 0.2% and improvements
													to flow = 12.0 % = 12.2%
													to now – 12.0 % – 12.2%
Snake	Lemhi River	LRS2	Mainstem	9.2: Water	25.00%	31.1	31.1	43.1		24.5	30		Upstream flow projects (LRS1) also
River			Salmon	Quantity:									considered for this estimate.
Steelhead			and Lemhi	Decreased									2016: Sixteen leases (in cfs) including
			Rivers and	Water									those from upstream assessment unit
			Hayden	Quantity									and carry over leases considered in
			Creek										look back but benefits not considered
													for the 2016-2018 timeframe were
													averaged through time and
													considered relative to flow in the
													assessment unit. Therefore 90.2
													cfs/750 cfs=12.0%
Snake	Pahsimeroi	PRS2	Salmon	1.1: Habitat	20.00%	80.5	80.5	80.5		70	100		Includes McKim Warm Springs, and
River	River	11132	River and		20.0070	00.5	00.5	00.5		, 0	100		Poison Ck barriers
Steelhead	Miver			Anthropogen									Upwards of 12 more barriers
J. C.			S	ic Barriers									remaining
													2016: No actions, therefore no
													change to low bookend
Snake	Pahsimeroi	PRS2	Salmon	2.3: Injury	20.00%	46.1	46.1	46.1		55	100		2 McKim fish screens
River	River		River and	and									about 12 more to be screened
Steelhead			Tributarie	Mortality:									2016: No actions, therefore no
			S	Mechanical									change to low bookend
Complete	Dalation	DDC2	Calmai	Injury	20.000/	70.6	70.6	70.6		70	00		2016. Na antique about 5
Snake	Pahsimeroi	PK52		4.1: Riparian	20.00%	70.6	70.6	70.6		70	80		2016: No actions, therefore no
River	River			Condition:									change to low bookend
Steelhead			Tributarie										
			S	Vegetation	1		1	1	1				

				1								T	
			Assessme	_		Low	2018	Updated 2018	High 2018		_	LF Weight and	
	Population		nt Unit	Factor	LF Weight			Estimate	Bookend			Bookends Comments	Estimates Comments
Snake	Pahsimeroi	PRS2		8.1: Water	10.00%	35.6	35.6	37.5		33	33		2016: Recognizing that improvements
River	River			Quality:									in temperature will be a function of
Steelhead			Tributarie	Temperature									shading (=riparian condition) and
			S										water depth and velocity (=flow), the
													expert panel chose to use the additive
													improvements from those two
													limiting factors as a proxy for temperature improvements.
													Therefore, Limiting Factor 4.1
													(riparian condition) =0% improvement
													+ Limiting Factor 9.2 (water quantity)
													= 1.9% = 1.9%
													1 -1070 -1070
Snake	Pahsimeroi	PRS2	Salmon	9.2: Water	30.00%	67	67	68.9		65	75		2016: Leases from Lookback were
River	River		River and	Quantity:									brought forward to account for
Steelhead			Tributarie	Decreased									improvements during 2016-2018.
			s	Water									Average of leases over 3 years=9.4 cfs
				Quantity									relative to 497 cfs across the
													assessment unit = 1.9%
	Salmon	UMS2			25.00%	40.5	40.5	40.5	40.1		70		2016: No actions, therefore no
	River upper		Upper	Condition:									change to low bookend
Steelhead	mainstem		Salmon	Riparian									
			River	Vegetation									
Snake	Salmon	UMS2	Mainstem	7.2:	25.00%	51.5	51.5	51.5	51		75		2016: No actions, therefore no
	River upper		Upper	Sediment									change to low bookend
Steelhead			Salmon	Conditions:									
			River	Increased									
				Sediment									
				Quantity									
Snake	Salmon	UMS2	Mainstem	8.1: Water	25.00%	62	62	70.5	51		80		2016: Expert Panel acknowledges the
	River upper		Upper	Quality:									influence of riparian condition and
Steelhead	mainstem		Salmon	Temperature									flow on temperature, thus, they use
			River										the additive benefits of the two as a
													proxy for temperature improvements.
													There were no riparian condition
													projects during this period, but flow
													improvement = 8.5. Thus 0+8.5=8.5%
	l												

				2012									
				Standardized			Original	Updated		Original			
			Assessme			Low	2018	2018	High 2018		High 2033	LF Weight and	
ESU	Population	Code	nt Unit	_	LF Weight			Estimate	Bookend		_	_	Estimates Comments
Snake	Salmon	UMS2	Mainstem		_	90.5	90.5	99	80		90		2016: Two leases averaging 17.9 cfs
River	River upper		Upper	Quantity:									relative to 210 cfs in the assessment
Steelhead	mainstem		Salmon	Decreased									unit = 8.5% improvement
			River	Water									
				Quantity									
Snake	Salmon	UMS3	Upper	1.1: Habitat	10.00%	60.4	60.4	61.8	60		100		2016: Three projects prorated to
River	River upper		Salmon	Quantity:									reflect realized change in 2018 total
Steelhead	mainstem		River	Anthropogen									2.685 stream miles, relative to 189.5
			Tributarie	ic Barriers									(streamnet steelhead miles plus 5
			s										miles for intrinsic potential on iron
													creek) = 1.4% improvement
Snake	Salmon	UMS3	Upper	2.3: Injury	10.00%	79	79	80.6	75		100		2016: Three screen projects. One will
River	River upper		Salmon	and									have no benefit to 2018. 6 cfs
Steelhead	mainstem		River	Mortality:									relative to 386 cfs across the
			Tributarie	Mechanical									assessment unit = 1.6% improvement
			s	Injury									
Snake	Salmon	UMS3	Upper	4.1: Riparian	20.00%	40.1	40.5	40.8	41		70		2016: Four projects, prorated to
River	River upper		Salmon	Condition:									reflect realized stream miles
Steelhead	mainstem		River	Riparian									improved = 1.32. Relative to 189.5
			Tributarie	Vegetation									steelhead bearing stream miles in the
			S										assessment unit (from StreamNet,
													plus 5 miles of intrinsic potential on
													iron creek) = 0.7% improvement
Snake	Salmon	UMS3	Upper	7.2:	15.00%	50.1	50.1	50.5	50.2		60		2016: Three projects, prorated to
	River upper		Salmon	Sediment	13.0070	30.1	30.1	30.3	30.2				reflect stream miles effectively
Steelhead			River	Conditions:									treated by 2018, = 0.68 stream miles.
Steemead	ascc			Increased									Relative to 189.5 steelhead bearing
			S	Sediment									stream miles in the assessment unit
				Quantity									(StreamNet plus 5 intrinsic potential
													miles on iron creek), there is a 0.4%
													improvement
Snake	Salmon	UMS3	Upper	8.1: Water	10.00%	36.8	36.8	44.5	32		55		2016:Expert Panel assumes additive
	River upper		Salmon	Quality:									benefits from riparian condition
Steelhead			River	Temperature									improvements and flow
			Tributarie	1									improvements are a good proxy for
			s										temperature improvements.
													Therefore 0.7+7.0=7.7%
													improvement

Snake	Population Salmon River upper mainstem	UMS3	Assessme nt Unit Upper Salmon River Tributarie s	Factor 9.2: Water Quantity: Decreased		Low Bookend 28.7	2018	Updated 2018 Estimate 35.7	High 2018 Bookend 30		_	LF Weight and Bookends Comments	Estimates Comments 2016: Three leases were averaged over years of their acquisition. Includes leases from look back that were not accounted for during 2016-2018. Average of leased water = 26.9 cfs relative to 386 cfs across the assessment unit = 7.0% improvement
Snake River Steelhead	Salmon River upper mainstem	UMS4	West Fork Yankee Fork	5.2: Peripheral and Transitional Habitats: Floodplain Condition	40.00%	97	97	97.5		98		including the YF ID Team made up this round as compared to a small subset in Fall 2011 (conversion to	
Snake River Steelhead	Salmon River upper mainstem	UMS4	West Fork Yankee Fork	6.1: Channel Structure and Form: Bed and Channel Form		97	97	97.5		98	98	including the YF ID Team made up this round as compared to a small subset in Fall 2011 (conversion to	

ESU	Population	Code	Assessme	_	LF Weight	Low	Original 2018 Estimate		High 2018 Bookend		_	LF Weight and Bookends Comments	Ectimates Comments
Snake River Steelhead	Salmon River upper	UMS4	West Fork Yankee Fork	6.2: Channel Structure and Form: Instream Structural Complexity	20.00%		97	97.5		98	98	Expanded Expert Panel including the YF ID Team made up this round as compared to a small subset in Fall 2011 (conversion to	2016: One project treated 0.1 miles, but was prorated to reflect realized improvements by 2018 (0.09 stream miles). Relative to the 20 steelhead bearing stream miles in the assessment unit (Intrinsic Potential; NOAA), there will be a 0.5% improvement
Snake River Steelhead	River upper	UMS5	Fork	1.1: Habitat Quantity: Anthropogen ic Barriers	5.00%	85	85	85		95		Currently, tribs w/barriers include Cearley, Jordan and Ramey, Silver and Jerrys Creeks. Improving these get to 95%.	2016: Not discussed by expert panel so presume no actions
Snake River Steelhead	River upper	UMS5	Fork	4.2: Riparian Condition: LWD Recruitment	20.00%	40.1	40.1	41.4		55		including the YF ID Team made up this round as compared to	2016: 0.386 stream miles of effective treatment across 30 steelhead bearing stream miles in the assessment unit (StreamNet) = 1.3% improvement

ESU	Population	Code	Assessme nt Unit	_	LF Weight	Low Bookend	2018		High 2018 Bookend		_	LF Weight and Bookends Comments	Estimates Comments
Snake	Salmon	UMS5	Yankee	5.2:	25.00%	72.1	72.1	76.1		65	80		2016: Three projects effectively
	River upper		Fork	Peripheral								_	improved 1.205 stream miles relative
Steelhead	mainstem			and								'	to 30 steelhead bearing stream miles
				Transitional								· ·	in the assessment unit = 4.0%
				Habitats:									improvement
				Floodplain								2011 (conversion to	
				Condition								standardized Limiting	
												Factors) and	
												Sp/Summer 2012	
												ExPanel meetings.	
												Changed low bookend	
												from 20 to 50 percent	
												because 2/3 of historic	
												Chinook production	
												comes from areas	
												outside of dredge	
												reach and there are	
												still some impacts that	
												occur in non dredged	
												areas. Recognizing	
												Jordan Ck. Impacts	

ESU	Population	Code	Assessme nt Unit	2012 Standardized Limiting Factor		Low	2018	Updated 2018 Estimate	High 2018 Bookend		_	LF Weight and Bookends Comments	Estimates Comments
Snake	Salmon	UMS5	Yankee		20.00%	76.2	76.2	80.5		65	80		2016:Three projects effectively
	River upper		Fork	Structure and								_	improved 1.28 stream miles relative
Steelhead	mainstem			Form: Bed									to 30 steelhead bearing stream miles
				and Channel								· ·	in the assessment unit = 4.3%
				Form									improvement
												2011 (conversion to	
												standardized Limiting	
												Factors) and	
												Sp/Summer 2012	
												ExPanel meetings.	
												Changed low bookend	
												from 20 to 50 percent	
												because 2/3 of historic	
												Chinook production	
												comes from areas	
												outside of dredge	
												reach and there are	
												still some impacts that	
												occur in non dredged	
												areas. Recognizing	
												Jordan Ck. Impacts	

ESU	Population	Code	Assessme nt Unit	2012 Standardized Limiting Factor		Low	2018	Updated 2018 Estimate	High 2018 Bookend		_	LF Weight and Bookends Comments	Estimates Comments
Snake River	Salmon River upper	UMS5	Yankee Fork	6.2: Channel Structure and	25.00%	77.5	77.5	83.5		70	1		2016:Three projects effectively improved 1.79 stream miles relative
	mainstem			Form: Instream								Team made up this	to 30 steelhead bearing stream miles in the assessment unit = 6.0%
				Structural Complexity									improvement
												standardized Limiting Factors) and	
												Sp/Summer 2012 ExPanel meetings.	
												Changed low bookend from 20 to 50 percent	
												because 2/3 of historic Chinook production	
												comes from areas outside of dredge	
												reach and there are still some impacts that	
											1	occur in non dredged areas. Recognizing Jordan Ck. Impacts	

ESU	Population	Code	Assessme nt Unit	2012 Standardized Limiting Factor		Low Bookend	2018	Updated 2018 Estimate	High 2018 Bookend		•	LF Weight and Bookends Comments	Estimates Comments
Snake	Salmon	UMS5	Yankee	7.1:	5.00%	72.2	72.2	77.4		60	70	Expanded Expert Panel	2016:Four projects effectively
River	River upper		Fork	Sediment								including the YF ID	improved 1.5575 stream miles
Steelhead	mainstem			Conditions:								Team made up this	relative to 30 steelhead bearing
				Decreased								round as compared to	stream miles in the assessment unit =
				Sediment								a small subset in Fall	5.2% improvement
				Quantity								2011 (conversion to	
												standardized Limiting	
												Factors) and	
												Sp/Summer 2012	
												ExPanel meetings.	
												Changed low bookend	
												from 20 to 50 percent	
												because 2/3 of historic	
												Chinook production	
												comes from areas	
												outside of dredge	
												reach and there are	
												still some impacts that	
												occur in non dredged	
												areas. Recognizing	
												Jordan Ck. Impacts;	
												Changed LF 7.2 to 7.1	
												due to much better	
												description of	
												conditions and how LF	
												applies - lack of	
												sediment that	
												provides good	
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