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 Chinook.

ESU Pop				2012									
ESU Pop			Assessme	Standardized		Low	Original 2018	Updated 2018	High 2018	Original 2033	High 2033	LF Weight and Bookends	
	pulation	Code			LF Weight		Estimate		1		_	Comments	Estimates Comments
-	-	BSC1		_		85.5	100		90	85.5	90		No actions applicable to this
Spring/Summ Cree	·		_	Quantity:									limiting factor are expected
er Chinook				Anthropogenic									within the 2013-2018 period in
				Barriers									this assessment unit.
			Creeks										Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.
Snake River Big S	g Sheep	BSC1	Lower Big	4.1: Riparian	15.00%	50	50	50	60	50	75	Primarily private	In 2016 the expert panel
Spring/Summ Cree	eek		Sheep	Condition:								land.	determined that no actions
er Chinook			and Little	Riparian									applicable to this limiting
			Sheep	Vegetation									factor are expected within the
			Creeks										2013-2018 period in this
													assessment unit. Therefore, no
													change in function percentage
													is expected. Comments
													entered RM 6/7/2016.
	·	BSC1	_		5.00%	50.1	50.1	50.1	55	50	60		In 2016 the expert panel
Spring/Summ Cree	eek			Structure and									determined that no actions
er Chinook				Form: Instream									applicable to this limiting
			· ·	Structural									factor are expected within the
			Creeks	Complexity									2013-2018 period in this
													assessment unit. Therefore, no
													change in function percentage
													is expected. Comments
													entered RM 6/7/2016.
Snake River Big S	g Sheep	BSC1	Lower Rig	7.2: Sediment	5.00%	50	50	50	75	50	85		in 2016 the expert panel
Spring/Summ Cree	·			Conditions:	3.00%	30	30	30	'3	30	05		determined that no actions
er Chinook	CCK		and Little										applicable to this limiting
				Sediment									factor would be implemented
				Quantity									within the 2013-2018 period in
			Si ceito	Quantity									this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	_	High 2018	_		Bookends	
ESU	Population	Code	nt Unit	Limiting Factor	LF Weight		Estimate		Bookend		1	Comments	Estimates Comments
Snake River	Big Sheep	BSC1	Lower Big	8.1: Water	15.00%	50	50	50	65	50	75		In 2016 the expert panel
Spring/Summ	Creek		Sheep	Quality:									determined that no actions
er Chinook			and Little	Temperature									applicable to this limiting
			Sheep										factor would be implemented
			Creeks										within 2013-2018 period in
													this assessment unit.
													Therefore, there is no change
													in function percentage.
													Comments entered RM
													6/3/2016.
Snake River	Big Sheep	BSC1	Lower Big	8.2: Water	5.00%	80	80	80	90	80	90	feedlot in low	In 2016 the expert panel
Spring/Summ	Creek		Sheep	Quality: Oxygen								end of system	determined that no actions
er Chinook			and Little									approx. 1/2 mile	applicable to this limiting
			Sheep										factor would be implemented
			Creeks										within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.
Snake River	Big Sheep	BSC1	Lower Big	9.2: Water	50.00%	30	30	30	80	30	80	Irrigation	in 2016 the expert panel
Spring/Summ	Creek		Sheep	Quantity:									determined that no actions
er Chinook			and Little	Decreased									applicable to this limiting
			Sheep	Water Quantity								of months	factor would be implemented
			Creeks										within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.
Snake River	Big Sheep	BSC2	1		16.66%	100	100	100	100	95	100		The expert panel determined
Spring/Summ	Creek		Sheep	Quantity:									that no actions applicable to
er Chinook			Creek	Anthropogenic									this limiting factor would be
				Barriers									implemented within the 2013-
													2018 period in this AU.
													Therefore, no change in
													function percentage is
													expected. Comments entered
			1										RM 6/7/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	_	High 2018	_	1	Bookends	
ESU	Population	Code	nt Unit	Limiting Factor	LF Weight		Estimate		Bookend			Comments	Estimates Comments
Snake River	Big Sheep	BSC2	Upper Big	6.2: Channel	16.66%	80	80	80	82	80	90		The expert panel determined
Spring/Summ	Creek		Sheep	Structure and									that no actions applicable to
er Chinook			Creek	Form: Instream									this limiting factor would be
				Structural									implemented within the 2013-
				Complexity									2018 period in this assessment
													unit. Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.
Snake River	Big Sheep	BSC2	Upper Big	7.2: Sediment	16.66%	50	50	50	65	50	75		In 2016 the expert panel did
, 0.	Creek		Sheep	Conditions:									not evaluate any actions
er Chinook			Creek	Increased									anticipated to benefit this
				Sediment									limiting factor between 2013
				Quantity									and 2018 and deferred to the
													Forest Service for any updated
													information. Comment
													entered RM 6/7/2016.
Snake River	Big Sheep	BSC2	Unner Big	8.1: Water	16.68%	60	60	60	62	60	65		In 2016 the expert panel
Spring/Summ	Creek	5552	Sheep	Quality:	10.0070				-				determined that no actions
er Chinook			Creek	Temperature									applicable to this limiting
				'									factor would be implemented
													within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.
Snake River	Big Sheep	BSC2	Upper Big	8.2: Water	16.66%	75	75	75	80	75	85		In 2016 the expert panel
,	Creek		Sheep	Quality: Oxygen									determined that no actions
er Chinook			Creek										applicable to this limiting
													factor would be implemented
													within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	2018	High 2018		High 2033	Bookends	
ESU	Population	Code	nt Unit	Limiting Factor	LF Weight	Bookend	Estimate	Estimate	Bookend	Estimate	Bookend	Comments	Estimates Comments
Spring/Summ er Chinook	Big Sheep Creek	BSC2	Sheep Creek	9.2: Water Quantity: Decreased Water Quantity		50	50	50	80	50	85		In 2016 the expert panel determined that no actions applicable to this limiting factor would be implemented within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 6/7/2016.
Snake River Spring/Summ er Chinook	Big Sheep Creek	BSC3	Creek	1.1: Habitat Quantity: Anthropogenic Barriers	16.70%	90	99.6	100	100	95	100	was increased from 60 to 95 11/16/2012.	No more known barriers after Lick Ck culvert. The Lick Creek culvert that will be addressed in 2017 will open 0.7 mile of habitat, yielding a 1% uplift. The expert panel expressed different views regarding the extent of Chinook distribution. The panel made a note to solicit Forest Service input on this action and the extent of fish distribution. Comments entered RM 6/7/2016.
er Chinook	Big Sheep Creek	BSC3	Big Sheep Creek Tributarie s	5.2: Peripheral and Transitional Habitats: Floodplain Condition	16.66%	95	95	95	100	95	100		In 2016 the expert panel determined that no actions applicable to this limiting factor would be implemented within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 6/7/2016.
	Big Sheep Creek	BSC3	Creek	6.1: Channel Structure and Form: Bed and Channel Form	16.66%	75	75	75	77	75	80		In 2016 the expert panel determined that no actions applicable to this limiting factor would be implemented within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 6/7/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	2018	High 2018	_		Bookends	
ESU	Population	Code	nt Unit		LF Weight		Estimate	Estimate	Bookend		1	Comments	Estimates Comments
Snake River	Big Sheep	BSC3	Big Sheep	6.2: Channel	16.66%	85.05	85.05	85.05	90	85.05	95		In 2016 the expert panel
Spring/Summ	Creek		Creek	Structure and									determined that no actions
er Chinook			Tributarie	Form: Instream									applicable to this limiting
			s	Structural									factor would be implemented
				Complexity									within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.
Snake River	Big Sheep	BSC3	Big Sheep	7.2: Sediment	16.66%	50.25	50.25	50.25	65	50.35	75		In 2016 the expert panel
Spring/Summ	Creek		Creek	Conditions:									determined that no actions
er Chinook			Tributarie	Increased									applicable to this limiting
			S	Sediment									factor would be implemented
				Quantity									within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.
Snake River	Big Sheep	BSC3	Big Sheep	8.2: Water	16.66%	80.1	80.1	80.1	85	80.1	90		In 2016 the expert panel
Spring/Summ	Creek		Creek	Quality: Oxygen									determined that no actions
er Chinook			Tributarie										applicable to this limiting
			S										factor would be implemented
													within 2013-2018 period in
													this assessment unit.
													Therefore, there is no change
													in function percentage.
													Comments entered RM
													6/7/2016.
Snake River	Imnaha	IRC1	Lower	7.2: Sediment	25.00%	80.25	80.25	80.25	85	80.05	90		No actions applicable to this
Spring/Summ	River		Imnaha	Conditions:									limiting factor are expected
er Chinook	mainstem		Mainstem										within the 2016-2018 period in
				Sediment									this assessment unit.
				Quantity									Therefore, no change in
													function percentage is
													expected. Comments entered
			1										RM 5/31/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	_	High 2018		High 2033	Bookends	
ESU	Population	Code	nt Unit		LF Weight		Estimate		Bookend		1	Comments	Estimates Comments
Snake River	Imnaha	IRC1	Lower		25.00%	75	75	75	77	75	80		No actions applicable to this
	River		Imnaha	Quality:									limiting factor are expected
er Chinook	mainstem			Temperature									within the 2016-2018 period in
				'									this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 5/31/2016.
Snake River	Imnaha	IRC1	Lower	8.2: Water	25.00%	70	70	70	80	70	85		No actions applicable to this
Spring/Summ	River		Imnaha	Quality: Oxygen									limiting factor are expected
er Chinook	mainstem		Mainstem										within the 2016-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 5/31/206.
Snake River	Imnaha	IRC1	Lower		25.00%	85	85	85	90	85	90		No actions applicable to this
,	River		Imnaha	Quantity:									limiting factor are expected
er Chinook	mainstem		Mainstem	Decreased									within the 2016-2018 period in
				Water Quantity									this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
Snake River	l ma ma h a	IRC2	Covid	C 1. Channal	25 000/								RM 5/31/2016.
	lmnaha River	IKC2	Cow,	6.1: Channel Structure and	25.00%								No actions applicable to this limiting factor are expected
er Chinook	mainstem		& Horse	Form: Bed and									within the 2016-2018 period in
er Cilliook	Illailistelli		Cr.	Channel Form									this assessment unit.
			Ci.	Chamiler Torm									Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 5/31/2016.
Snake River	Imnaha	IRC2	Cow,	6.2: Channel	25.00%								No actions applicable to this
	River			Structure and									limiting factor are expected
er Chinook	mainstem		& Horse	Form: Instream									within the 2016-2018 period in
			Cr.	Structural									this assessment unit.
				Complexity									Therefore, no change in
				' '									function percentage is
													expected. Comments entered
													RM 5/31/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	2018	High 2018	_	High 2033	Bookends	
ESU	Population	Code	nt Unit		LF Weight		Estimate	Estimate	Bookend		1 ~	Comments	Estimates Comments
Snake River	Imnaha	IRC2	Cow,	7.2: Sediment	25.00%								No actions applicable to this
	River			Conditions:									limiting factor are expected
er Chinook	mainstem		& Horse	Increased									within the 2016-2018 period in
			Cr.	Sediment									this assessment unit.
				Quantity									Therefore, no change in
				,									function percentage is
													expected. Comments entered
													RM 5/31/206.
Snake River	Imnaha	IRC2	Cow,	8.1: Water	25.00%								No actions applicable to this
Spring/Summ	River		Lightening	Quality:									limiting factor are expected
er Chinook	mainstem		& Horse	Temperature									within the 2016-2018 period in
			Cr.										this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 5/31/2016.
Snake River	Imnaha	IRC3	Upper	1.1: Habitat	20.00%	75	75	75	100	75	100		No actions applicable to this
Spring/Summ	River		Imnaha	Quantity:									limiting factor are expected
er Chinook	mainstem		River	Anthropogenic									within the 2016-2018 period in
			Mainstem	Barriers									this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 5/31/2016.
Snake River	Imnaha	IRC3	Upper	6.2: Channel	20.00%	85	85	85	86	85	90		No actions applicable to this
Spring/Summ	River		Imnaha	Structure and									limiting factor are expected
er Chinook	mainstem		River	Form: Instream									within the 2016-2018 period in
			Mainstem	Structural									this assessment unit.
				Complexity									Therefore, no change in
													function percentage is
													expected. Comments entered
c 1 p:		10.00	 	7.2.6.11	20.000/	00	00	00	00	00	05		5/31/2016 RM.
Snake River	Imnaha	IRC3	Upper	7.2: Sediment	20.00%	80	80	80	82	80	85		No actions applicable to this
Spring/Summ	River		Imnaha	Conditions:									limiting factor are expected
er Chinook	mainstem		River	Increased									within the 2016-2018 period in
			iviainstem	Sediment									this assessment unit.
				Quantity									Therefore, no change in
													function percentage is
													expected. Comments entered
												l	RM 5/31/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	2018	High 2018	_	High 2033	Bookends	
ESU	Population	Code	nt Unit	Limiting Factor	LF Weight		Estimate	Estimate	Bookend		Bookend		Estimates Comments
Snake River	Imnaha River mainstem	IRC3	Upper Imnaha River Mainstem	8.1: Water Quality: Temperature	20.00%	80	80	80	82	80	85		No actions applicable to this limiting factor are expected within the 2016-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 5/31/2016.
Spring/Summ	Imnaha River mainstem	IRC3	Upper Imnaha River Mainstem	8.2: Water Quality: Oxygen	20.00%	90	90	90	95	90	96		No actions applicable to this limiting factor are expected within the 2016-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 5/31/2016.
Spring/Summ	Imnaha River mainstem	IRC4	Upper Imnaha River Tribs.	1.1: Habitat Quantity: Anthropogenic Barriers	10.00%	80	80	80	100	90	100		Grouse Ck. rearing only for Chinook; total from 3 project about 3 miles improved access. No actions applicable to this limiting factor are expected within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 5/31/2016.
Spring/Summ	Imnaha River mainstem	IRC4	Upper Imnaha River Tribs.	4.1: Riparian Condition: Riparian Vegetation	20.00%	60	60	60	62	60	65		No actions applicable to this limiting factor are expected within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 5/31/2016.
	Imnaha River mainstem	IRC4	Upper Imnaha River Tribs.	6.1: Channel Structure and Form: Bed and Channel Form	10.00%	80	80	80	85	80	90		No actions applicable to this limiting factor are expected within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 5/31/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	2018	High 2018	_	High 2033	Bookends	
ESU	Population	Code	nt Unit		LF Weight		Estimate	1	Bookend		"	Comments	Estimates Comments
	Imnaha	IRC4	Upper	6.2: Channel	10.00%	80	80	80	82	80	85		No actions applicable to this
	River		Imnaha	Structure and									limiting factor are expected
er Chinook	mainstem		River	Form: Instream									within the 2013-2018 period in
			Tribs.	Structural									this assessment unit.
				Complexity									Therefore, no change in
				' '									function percentage is
													expected. Comments entered
													RM 5/31/2016.
Snake River	Imnaha	IRC4	Upper	7.2: Sediment	20.00%	80	80	80	85	80	90		No actions applicable to this
Spring/Summ	River		Imnaha	Conditions:									limiting factor will be
er Chinook	mainstem		River	Increased									performed within 2013-2018
			Tribs.	Sediment									period in this assessment unit.
				Quantity									Therefore, there is no change
													in function percentage.
													Comments entered RM
													5/31/2016.
Snake River	Imnaha	IRC4	Upper	8.1: Water	20.00%	80	80	80	82	80	85		No actions applicable to this
,	River		Imnaha	Quality:									limiting factor are expected
er Chinook	mainstem		River	Temperature									within the 2013-2018 period in
			Tribs.										this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
			<u>.</u>			 							RM 5/31/2016.
Snake River	Imnaha	IRC4	Upper		0.00%	75	75	75	80	75	85		No actions applicable to this
	River		Imnaha	Quality: Oxygen									limiting factor are expected
er Chinook	mainstem		River										within the 2013-2018 period in
			Tribs.										this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered RM 5/31/2016.
Snake River	Imnaha	IRC4	Unnor	9.1: Water	0.00%	70	70	70	72	70	75		No actions applicable to this
	River	IINC4	Upper Imnaha	Quantity:	0.00%	1,0	1,0	1,0	1/2	1,0	1/3		limiting factor are expected
-	mainstem		River	Increased Water									within the 2013-2018 period in
CI CIIIIOOK	mamstem		Tribs.	Quantity									this assessment unit.
			11103.	Qualitity									Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 5/31/2016.

				2012			Original	Updated		Original		LF Weight and	
				Standardized		Low	2018	2018	High 2018		High 2033		
ESU	+ -	Code	nt Unit	Limiting Factor			Estimate		Bookend		 	Comments	Estimates Comments
Snake River Spring/Summ er Chinook	Imnaha River mainstem	IRC4	Upper Imnaha River Tribs.	9.2: Water Quantity: Decreased Water Quantity	10.00%	80	80	80	85	80	90		No actions applicable to this limiting factor are expected within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is
													expected. Comments entered RM 5/31/2016.
Snake River Spring/Summ er Chinook	Lookingglass Creek	LGC1	ass Creek	Anthropogenic Barriers	40.00%	70	70	70		70	100		No actions applicable to this limiting factor are expected within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 5/31/2016.
Snake River Spring/Summ er Chinook	Lookingglass Creek	LGC1	""	6.2: Channel Structure and Form: Instream Structural Complexity	60.00%	80	80	80	85	80	90		No actions applicable to this limiting factor are expected within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 5/31/2016.
Snake River Spring/Summ er Chinook	Migration Corridor	MCC1	Lower Grande	4.1: Riparian Condition: Riparian Vegetation	20.00%								
Snake River Spring/Summ er Chinook	Migration Corridor	MCC1	Mainstem Lower Grande Ronde River	6.2: Channel Structure and Form: Instream Structural Complexity	20.00%								
Snake River Spring/Summ er Chinook	Migration Corridor	MCC1	Mainstem Lower Grande Ronde River	7.2: Sediment Conditions: Increased Sediment Quantity	20.00%								
Snake River Spring/Summ er Chinook	Migration Corridor	MCC1	_	8.1: Water Quality: Temperature	20.00%								

				2012			Original	Updated		Original		LF Weight and	
			Assassma	Standardized		Low	2018	2018	High 2018	_	High 2033	_	
ESU	Population	Code			LF Weight		Estimate	Estimate	Bookend		"		Estimates Comments
Snake River		MCC1		9.2: Water	20.00%								
	Corridor		Lower	Quantity:	20.0070								
er Chinook	60111401		Grande	Decreased									
er chinook			Ronde	Water Quantity									
			River	Water Quantity									
Snake River	Migration	MCC2	Lower	1.1: Habitat	0.00%	100	100		100	100	100		
	Corridor	IVICCZ	Grande	Quantity:	0.0070	100			100	100	100		
er Chinook	Corridor		Ronde	Anthropogenic									
er Chinook			Tributarie										
			c	Darriers									
Snake River	Migration	MCC2	Lower	4.1: Riparian	25.00%	85	85		90	85	95		
	Corridor			Condition:									
er Chinook			Ronde	Riparian									
er c rimiook				Vegetation									
			s	V egetation									
Snake River	Migration	MCC2	Lower	6.2: Channel	25.00%	85	85		90	85	95		
	Corridor		Grande	Structure and									
er Chinook			Ronde	Form: Instream									
			Tributarie										
			S	Complexity									
Snake River	Migration	MCC2	Lower		25.00%	60	60		75	60	80	Wildcat road	
	Corridor		Grande	Conditions:									
er Chinook			Ronde	Increased									
			Tributarie										
			s	Quantity									
Snake River	Migration	MCC2	Lower	8.1: Water	25.00%	80	80		85	80	90	naturally hot;	
Spring/Summ	_		Grande	Quality:								spring rearing,	
er Chinook			Ronde	Temperature								presence limited	
			Tributarie									in summer	
			s										
Snake River	Migration	MCC2	Lower	9.2: Water	0.00%	90	90		95	90	95	stock ponds -	
Spring/Summ	Corridor		Grande	Quantity:								minimal impact;	
er Chinook			Ronde	Decreased									
			Tributarie	Water Quantity									
			s										
Snake River	Lostine River	WLC1	Lower	6.2: Channel	25.00%							No bookend	No actions applicable to this
Spring/Summ			Wallowa	Structure and								values	limiting factor were performed
er Chinook			River	Form: Instream							l	established for	within 2013-2018 period in
			(Mouth to									this limiting	this assessment unit.
			Minam R.	Complexity								factor. Comment	Therefore, there is no change
			& Howard									entered RM	in function percentage.
			Cr.)									6/7/2016.	Comments entered RM
			<u> </u>										6/7/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assassma	Standardized		Low	2018	2018	High 2018	_	High 2033	Bookends	
ESU	Population	Code	nt Unit		LF Weight		Estimate		Bookend		1	Comments	Estimates Comments
Snake River	Lostine River		Lower	7.2: Sediment	25.00%	Doorteila	2500000	2001111410			Doomeria	No bookend	No actions applicable to this
Spring/Summ	Lostine River		Wallowa	Conditions:	23.0070							values	limiting factor were performed
er Chinook			River	Increased								established for	within 2013-2018 period in
er ermiook				Sediment								this limiting	this assessment unit.
			Minam R.									factor. Comment	Therefore, there is no change
			& Howard	1								entered RM	in function percentage.
			Cr.)									6/7/2016.	Comments entered RM
			Ci.,									0,7,2010.	6/7/2016.
Snake River	Lostine River	WLC1	Lower	8.1: Water	25.00%							No bookend	No actions applicable to this
Spring/Summ			Wallowa	Quality:								values	limiting factor were performed
er Chinook			River	Temperature								established for	within 2013-2018 period in
			(Mouth to									this limiting	this assessment unit.
			Minam R.									factor. Comment	Therefore, there is no change
			& Howard									entered RM	in function percentage.
			Cr.)									6/7/2016.	Comments entered RM
													6/7/2016.
Snake River	Lostine River	WLC1	Lower	9.2: Water	25.00%							No bookend	No actions applicable to this
Spring/Summ			Wallowa	Quantity:								values	limiting factor were performed
er Chinook			River	Decreased								established for	within 2013-2018 period in
			1,	Water Quantity								this limiting	this assessment unit.
			Minam R.										Therefore, there is no change
			& Howard									entered RM	in function percentage.
			Cr.)									6/7/2016.	Comments entered RM
													6/7/2016.
Snake River	Lostine River	WLC2	Middle	6.2: Channel	33.33%							No bookend	No actions applicable to this
Spring/Summ			Wallowa	Structure and								values	limiting factor were performed
er Chinook			River	Form: Instream								established for	within 2013-2018 period in
			1,	Structural								this limiting	this assessment unit.
				Complexity								factor. Comment	Therefore, there is no change
			And Deer									entered RM	in function percentage.
			Cr.)									6/7/2016.	Comments entered RM
Cool o B'	Lastina Bi	14/1/62	NAT JUL	7.2 6.4	22.220/				<u> </u>	-	-	Nie beerlaard	6/7/2016.
Snake River	Lostine River	WLC2	Middle	7.2: Sediment	33.33%							No bookend	No actions applicable to this
Spring/Summ			Wallowa	Conditions:								values	limiting factor were performed
er Chinook			River	Increased								established for	within 2013-2018 period in
			1,	Sediment								this limiting	this assessment unit.
			to Dry Cr.	Quantity								factor. Comment	Therefore, there is no change
			And Deer									entered RM	in function percentage.
			Cr.)									6/7/2016.	Comments entered RM
													6/7/2016.

ESU	Population	Code	Assessme nt Unit	2012 Standardized Limiting Factor	LF Weight	Low Bookend	Original 2018 Estimate	Updated 2018 Estimate	High 2018 Bookend		High 2033		Estimates Comments
Snake River Spring/Summ er Chinook	Lostine River		Middle Wallowa River (Minam R. to Dry Cr.	8.1: Water Quality: Temperature	33.34%							No bookend values established for this limiting	No actions applicable to this limiting factor were performed within 2013-2018 period in this assessment unit. Therefore, there is no change
			And Deer Cr.)									entered RM 6/7/2016.	in function percentage. Comments entered RM 6/7/2016.
Snake River Spring/Summ er Chinook	Lostine River	WLC3	Upper Wallowas River (Dry Cr. To Wallowas Lake)	1.1: Habitat Quantity: Anthropogenic Barriers	5.00%	95.1	95.1	95.1	100	92	100		No actions applicable to this limiting factor are expected within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 5/31/2016.
Snake River Spring/Summ er Chinook	Lostine River	WLC3	Upper Wallowas River (Dry Cr. To Wallowas Lake)	4.1: Riparian Condition: Riparian Vegetation	10.00%	40.28	40.28	40.31	45	40.75	60		In 2016 the expert panel evaluated the Wallowa-Baker project that planted 0.6 mile on 1 bank and fenced 0.3 miles. The Baremore Project most likely will not be implemented prior to 2018. The calculation spreadsheet prorates the treatment at 1% resulting in 0.03% uplift expected. Comments entered RM 6/7/2016.

				2012			Original	Updated		Original		LF Weight and	
			Accacema	Standardized		Low	2018	2018	High 2018	_	High 2033	Bookends	
ESU	Population			Limiting Factor	LF Weight		Estimate		Bookend		_		Estimates Comments
	Lostine River		Upper	5.1: Peripheral		35	35	36.8				Added limiting	Length to be treated: Wallowa-
Spring/Summ	20361116 111761	203		and Transitional	10.0070			30.0					Baker: 0.6 mainstem miles.
er Chinook				Habitats: Side								weighted other	Panel prorated as 75% of
				Channel and								factors.	properly functioning condition.
			Wallowas									Comments	Tamkaliks: 0.4 mile prorated at
				Conditions								entered RM	70%. Yields 1.8% expected
												5/31/2016.	uplift. Comments entered RM
												Panel's estimate	5/31/2016.
												of percentage of	
												properly	
												functioning	
												condition in	
												assessment unit.	
												Lower end of	
												assessment unit	
												is in okay shape.	
												Worse condition	
												upstream. Not all	
												reaches would	
												have had side	
												channels (e.g.,	
												canyon reach).	
												Comments	
												entered RM	
												5/31/2016.	
	Lostine River	WLC3	Upper	6.1: Channel	10.00%	40.8	40.8	42.6	65	40.75	80	In 2016 when	6 Ranch benefits were
Spring/Summ				Structure and								limiting factor 5.1	considered in 2012. In 2016
er Chinook				Form: Bed and									the Wallowa-Baker (0.45 mile
			Cr. To	Channel Form								limiting factor	of main side channel creation
			Wallowas									was reweighted.	+ additional 25 meters sinuous
			Lake)										Spring Creek side channel
													connection) and the Tamkaliks
													(side channel creation project
													at the powwow grounds) were
													evaluated. Wallowa-Baker
													includes 3,917 feet of side
													channel. Per the calculation
													spreadsheet there was an
													estimated 1.8% uplift.
													Comments entered RM
													6/2/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	-	High 2018	_		Bookends	
ESU	Population	Code	nt Unit		LF Weight		Estimate		Bookend			Comments	Estimates Comments
Snake River	Lostine River	WLC3	Upper	6.2: Channel	25.00%	40.8	40.8	44.1	65	50.4	80		In 2016 the expert panel
Spring/Summ			Wallowas	Structure and									evaluated the Wallowa-Baker
er Chinook			River (Dry	Form: Instream									Project that treated 3,917 ft of
			Cr. To	Structural									side channel with 689 pieces
			Wallowas	Complexity									of wood and racked material
			Lake)										equal to 32 pieces per 100 m
													and the Tamkaliks Project that
													treated 0.3 mile. The goal is to
													improve rearing habitat and
													add pool complexity. The
													benefits were prorated in
													calculation spreadsheet based
													on properly functioning
													condition expected to be
													achieved within the project
													area. Based on this the panel
													anticipates a 3.3% uplift.
													Comments entered RM
													6/7/2016.
1													

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	-	High 2018	_		Bookends	
ESU	Population	Code		Limiting Factor	l F Weight		Estimate		Bookend		_	Comments	Estimates Comments
Snake River	Lostine River		Upper	7.2: Sediment	20.00%	50.8	50.8			50.2	75	Comments	In 2012 the 6-Ranch Project 2
Spring/Summ	Lostine mver	***		Conditions:	20.0070	30.0	30.0	32.0		30.2	, ,		was evaluated for benefits. In
er Chinook			River (Dry										2016 the expert panel
CI CIIIIOOK			Cr. To	Sediment									evaluated the Wallowa-Baker
			Wallowas										(8.2 acres of floodplain
			Lake)	Quantity									roughness and bank layback
			Lake										over 1.3 miles including the
													side channels and 0.6 mile of
													main channel were evaluated)
													project for the ability to
													capture sediment. Benefits
													were prorated at 75% of
													properly functioning condition
													within 2018 period. The panel
													also evaluated the Tamkaliks
													project that will create
													backwater rearing habitat in
													floodplain. Prorated at 75% of
													properly functioning condition
													within 2018 period. Based on
													these actions the panel
													estimated a 1.8% uplift
													expected. Comments entered
													RM 6/2/2016. Note to expert
													panel to check the accuracy of
													the 2018 estimate which may
													have a transcription error.
													nave a transcription error.
Snake River	Lostine River		Upper	8.1: Water	10.00%	85.1	85.1	85.14	87	85.1	90		In 2016 the panel evaluated
Spring/Summ			Wallowas	1									flow benefits of a Wallowa-
er Chinook				Temperature									Baker 2017-2018 acquisition.
			Cr. To										Hyporheic benefits are
			Wallowas										anticipated. Monitoring will
			Lake)										show actual changes in future.
													Sum of riparian and flow
													benefits yields 0.04% expected
													uplift. Comments entered RM
													6/3/2016.

ESU Snake River Spring/Summ er Chinook	Population Lostine River		nt Unit Upper	Standardized Limiting Factor 8.2: Water Quality: Oxygen	LF Weight 0.00%	Low Bookend 70	Original 2018 Estimate 70		High 2018 Bookend		High 2033	LF Weight and Bookends Comments	Estimates Comments In 2016 the panel determined that there were no actions that would benefit this limiting factor expected within the 2013-2018 period in this assessment unit. Therefore, there was no change in percent function. Comments entered RM 6/3/2016.
Snake River Spring/Summ er Chinook	Lostine River	WLC3	Wallowas		10.00%	80.6	80.6	80.61	85	80.6	1	The limiting factor was reweighted at 10% during the 2016 look forward. Comment entered RM 6/7/2016.	In 2016 the expert panel evaluated the Wallowa-Baker Project that is anticipated to be implemented between 2017 and 2018. That project will add 4-50 cfs of residual stock water 1,600 feet upstream from current location. There is known spawning in this area, as well as rearing. Flow denominator at this location is 207 cfs (95% low exceedance per Anderson Perry design report) end of summer baseflow. Based on this a 0.011% uplift is expected. Comments entered RM 6/7/2016.
Snake River Spring/Summ er Chinook	Lostine River	WLC4	Hurricane Creek	1.1: Habitat Quantity: Anthropogenic Barriers	15.00%	50	50	50	100	50	100		In 2016 the panel determined that there were no actions applicable to this limiting factor are expected within the 2013-2018 period in this assessment unit. Therefore, no change in function percentage is expected. Comments entered RM 6/3/2016.

				2012			Original	Updated		Original		LF Weight and	
				Standardized		Low	2018	_	High 2018	_		Bookends	
ESU	Population	Codo			LF Weight		Estimate		_	Estimate	•	Comments	Estimates Comments
Snake River	Lostine River			4.1: Riparian	15.00%	30	30	30	35	38	60	Comments	In 2016 there were no actions
Spring/Summ	LOSTINE KIVEI	WLC4	Creek	Condition:	15.00%	30	30	30	33	36	00		applicable to this limiting
er Chinook				Riparian									factor are expected within the
Ci Cilliook				Vegetation									2013-2018 period in this
				Vegetation									assessment unit. Therefore, no
													change in function percentage
													is expected. Comments
													entered RM 6/3/2016.
													. ,
Snake River	Lostine River	WLC4	Hurricane	5.2: Peripheral	15.00%	30	30	30	50	30	60		In 2016 the expert panel
Spring/Summ			Creek	and Transitional									determined that no actions
er Chinook				Habitats:									applicable to this limiting
				Floodplain									factor would be implemented
				Condition									within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/3/2016.
Snake River	Lostine River	WLC4		6.2: Channel	15.00%	30	30	30	50	38	60		In 2016 the panel determined
Spring/Summ			Creek	Structure and									that no actions applicable to
er Chinook				Form: Instream									this limiting factor would be
				Structural									implemented within the 2013-
				Complexity									2018 period in this assessment unit. Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/3/2016.
													3, 3, 23 23.
Snake River	Lostine River	WLC4	Hurricane	7.2: Sediment	4.00%	60	60	60	70	63	80		In 2016 the expert panel
Spring/Summ			Creek	Conditions:									determined that no actions
er Chinook				Increased									applicable to this limiting
				Sediment									factor would be implemented
				Quantity									within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/3/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	-	High 2018	_	High 2033	_	
ESU	Population	Code	nt Unit		LF Weight		Estimate		Bookend			Comments	Estimates Comments
	Lostine River				15.00%	70	70	70		70	75		In 2016 the expert panel
Spring/Summ	Lostine mver	WLC	Creek	Quality:	15.0070	,,			' -		, ,		determined that no actions
er Chinook			Creek	Temperature									applicable to this limiting
er erimook				remperature									factor would be implemented
													within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/3/2016.
Snake River	Lostine River	W/I C/I	Hurricana	8.2: Water	1.00%	70	70	70	80	70	80		In 2016 the expert panel
Spring/Summ	LOSCINE INVEN	WLC4	Creek	Quality: Oxygen	1.00%				00		00		determined that no actions
er Chinook			CIECK	Quality. Oxygen									applicable to this limiting
er chinook													factor would be implemented
													within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM. 6/3/2016.
Snake River	Lostine River	W/I C/I	Hurricana	9.2: Water	20.00%	40	40	40	90	40	95		In 2016 the expert panel
Spring/Summ	LOSCINE KIVEI	WLC4	Creek	Quantity:	20.0070	140	40	140		40			determined that no actions
er Chinook			Creek	Decreased									applicable to this limiting
er eminook				Water Quantity									factor would be implemented
				Water Quartity									within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/3/2016.
Snake River	Lostine River	WLC5	Prairie	1.1: Habitat	14.28%							Bookend values	No actions applicable to this
Spring/Summ			Creek	Quantity:								for this limiting	limiting factor are expected
er Chinook				Anthropogenic								factor have not	within the 2013-2018 period in
				Barriers								been established.	this assessment unit.
												Comment	Therefore, no change in
											1	entered RM	function percentage is
											1	6/7/2016.	expected. Comments entered
												0, 7, 2010.	RM 6/7/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assassma	Standardized		Low	2018	2018	High 2018	_	High 2033	Bookends	
ESU	Population	Code	nt Unit		LF Weight		Estimate	Estimate	Bookend		"	Comments	Estimates Comments
Snake River	Lostine River		Prairie	4.1: Riparian	14.28%	DOOKCIIG	Littinate	Lotimate	DOORCHA	Littliace	DOORCHA	Bookend values	No actions applicable to this
Spring/Summ	Lostine River	WECS	Creek	Condition:	14.2070							for this limiting	limiting factor are expected
er Chinook			Creek	Riparian								factor have not	within the 2013-2018 period in
er chinook				Vegetation								been established.	this assessment unit.
				Vegetation								Comment	Therefore, no change in
												entered RM	function percentage is
												6/7/2016.	expected. Comments entered
												0/7/2010.	RM 6/7/2016.
Snake River	Lostine River	WLC5	Prairie	7.2: Sediment	14.30%							Bookend values	No actions applicable to this
Spring/Summ			Creek	Conditions:								for this limiting	limiting factor are expected
er Chinook				Increased								factor have not	within the 2013-2018 period in
				Sediment								been established.	this assessment unit.
				Quantity								Comment	Therefore, no change in
												entered RM	function percentage is
												6/7/2016.	expected. Comments entered
													RM 6/7/2016.
Snake River	Lostine River	WLC5	Prairie	8.1: Water	14.28%							Bookend values	No actions applicable to this
Spring/Summ			Creek	Quality:								for this limiting	limiting factor are expected
er Chinook				Temperature								factor have not	within the 2013-2018 period in
												been established.	this assessment unit.
												Comment	Therefore, no change in
												entered RM	function percentage is
												6/7/2016.	expected. Comments entered
													RM 6/7/2016.
Snake River	Lostine River	WLC5	Prairie	8.2: Water	14.28%							Bookend values	No actions applicable to this
Spring/Summ			Creek	Quality: Oxygen								for this limiting	limiting factor are expected
er Chinook												factor have not	within the 2013-2018 period in
												been established.	this assessment unit.
												Comment	Therefore, no change in
												entered RM	function percentage is
												6/7/2016.	expected. Comments entered
													RM 6/7/2016.
Snake River	Lostine River	WLC5	Prairie	9.1: Water	14.28%							Bookend values	No actions applicable to this
Spring/Summ			Creek	Quantity:								for this limiting	limiting factor are expected
er Chinook				Increased Water								factor have not	within the 2013-2018 period in
				Quantity								been established.	this assessment unit.
												Comment	Therefore, no change in
												entered RM	function percentage is
												6/7/2016.	expected. Comments entered
													RM 6/7/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	2018	High 2018	_	High 2033		
ESU	Population	Code	nt Unit	Limiting Factor				Estimate	Bookend		_		Estimates Comments
Snake River	Lostine River	WLC5	Prairie	9.2: Water	14.30%							Bookend values	No actions applicable to this
Spring/Summ			Creek	Quantity:								for this limiting	limiting factor are expected
er Chinook				Decreased								_	within the 2013-2018 period in
				Water Quantity								been established.	this assessment unit.
												Comment	Therefore, no change in
												entered RM	function percentage is
												6/7/2016.	expected. Comments entered
													RM 6/7/2016.
Snake River	Lostine River	WLC6	Bear	1.1: Habitat	10.00%	60	60	60	85	65	85	Old City of	In 2016 the expert panel
Spring/Summ			Creek	Quantity:									determined that no actions
er Chinook				Anthropogenic							l	l	applicable to this limiting
				Barriers							l	· ·	factor would be implemented
											l	1 1	within the 2013-2018 period in
											l		this assessment unit.
											l	barrier; Gobel	Therefore, no change in
											l	· ·	function percentage is
											l		expected. Comments entered
											l	1 ''	RM 6/3/2016.
											!	Diamond Lane	
Snake River	Lostine River	WLC6	Bear	6.2: Channel	20.00%	40	40	40	70	40	l		In 2016 the expert panels
Spring/Summ			Creek	Structure and							l		determined that no actions
er Chinook				Form: Instream									applicable to this limiting
				Structural									factor would be implemented
				Complexity									within the 2013-2018 period in
													this assessment unit. Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/3/2016.
Snake River	Lostine River	WI C6	Bear	7.2: Sediment	4.00%	70	70	70	75	70.05	80		In 2016 the expert panel
Spring/Summ	LOSTING MIVE	WLCO	Creek	Conditions:	4.00%	/ 0			/3	70.03		l'	determined that no actions
er Chinook			Creek	Increased									applicable to this limiting
Ci Cilliook				Sediment									factor would be implemented
				Quantity									within the 2012-2015 period in
													this assessment unit.
													Therefore, there is no change
													in function percentage.
													Comments entered RM
													6/3/2016.
Snake River	Lostine River	WLC6	Bear	8.1: Water	10.00%	50	50	50	60	50	70		
Spring/Summ			Creek	Quality:									
er Chinook				Temperature			<u> </u>	<u> </u>					

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	_	High 2018	_	High 2033	•	
ESU	Population	Code	nt Unit		LF Weight				Bookend		_		Estimates Comments
Snake River	Lostine River	WLC6	Bear	8.2: Water	1.00%	80	80	80	80	80	80		In 2016 the expert panel
Spring/Summ			Creek	Quality: Oxygen									determined that no actions
er Chinook													applicable to this limiting
													factor would be implemented
													within 2013-2018 period in
													this assessment unit.
													Therefore, there is no change
													in function percentage.
													Comments entered RM
													6/3/2016.
Snake River	Lostine River	WLC6	Bear	9.2: Water	55.00%	25	25	25	70	25	70	mid-late irrigation	In 201 the expert panel
Spring/Summ			Creek	Quantity:								season	determined that no actions
er Chinook				Decreased								functionally	applicable to this limiting
				Water Quantity								dewaters lower 5	factor would be implemented
												miles; abt 12-15	within the 2013-2018 period in
												miles above	this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/3/2016.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	· ·	High 2018	•	High 2033	_	
ESU	Population	Code	nt Unit	Limiting Factor	LF Weight	Bookend	Estimate		Bookend		_	Comments	Estimates Comments
Snake River	Lostine River	WLC7	Lower	1.1: Habitat	15.00%	25	25	70.1	100	95	100	In 2016 the panel	The 2016 calculation
Spring/Summ			Lostine	Quantity:								adjusted the low	spreadsheet includes five
er Chinook			River	Anthropogenic								bookend (25%) to	passage projects with river
			(Mouth to	Barriers								account for	miles and amount of access to
			Silver Cr.)									known remaining	be opened. Minimum flow
												passage flow	project allows for passage
												deficiencies,	where flow barriers exist. The
												thermal barriers,	2016 expert panel prorated
												and diversion	projects based on life stage
												structures left to	and degree of blockage. Tully
												remedy by 2018	Hill at RM 2 diversion is partial
												and beyond. This	barrier (5-6 months per year
												is the main	for juveniles and documented
												assessment unit	delays for adults) and is to be
												of concern for	completely remedied for all
												barriers	species and life stages.
												l '	Clearwater at RM 3 and Foster
												above). 30%	at RM 4 are the next barriers
												remaining to do	up, but are not complete
												after 2018.	blockages. Many of the
													remaining barriers are partial,
													but cause migration delays of
													adults (telemetry data) and/or
													block juvenile upstream
													migration. There are no known
													barriers upstream of the Sheep
													Ridge project. Sheep Creek is a
													juvenile barrier much of the

				2012			Original	Updated		Original		LF Weight and	
			Accoccmo	Standardized		Low	2018		 High 2018	_		Bookends	
ESU	Population	Codo	nt Unit	Limiting Factor	I E Woight		Estimate		Bookend		_		Estimates Comments
	Lostine River											Comments	
Snake River	Lostine River	WLC/	Lower	6.2: Channel	30.00%	57.1	57.1	57.1	60	57	65		257 acres treated in WLC7 &
Spring/Summ			Lostine	Structure and									WLC3. Estimate 200 acres and
er Chinook			River	Form: Instream									2 stream miles affected in
			,	Structural									WLC7. No credit is assigned for
			Silver Cr.)	Complexity									protection and any benefits
													will be evaluated if active
													restoration occurs. In 2016 the
													expert panel determined that
													no actions applicable to this
													limiting factor would be
													implemented within the 2013-
													2018 period in this assessment
													unit. Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.
Snake River	Lostine River	WLC7	Lower	7.2: Sediment	10.00%	50	50	50	65	50	70		Sheep and Tully Hill projects:
Spring/Summ			Lostine	Conditions:									roughened channels will
er Chinook			River	Increased									restore sediment transport
			(Mouth to	Sediment									processes, but no measurable
			Silver Cr.)	Quantity									uplift. Comments entered RM
													5/31/2016.
Snake River	Lostine River	WLC7	Lower	8.1: Water	10.00%	78.2	78.2	90.9	77	77	80		In 2016 the expert panel used
Spring/Summ			Lostine	Quality:									the weighted sum of limiting
er Chinook			River	Temperature									factor 9.2 flow projects in this
			(Mouth to										assessment unit (6.8 cfs).
			Silver Cr.)										Calculation spreadsheet
													includes 6 flow projects.
													Benefits were prorated based
													on expected effect on
													temperature (e.g., early
													season May-July) - leases have
													less of an effect. Water
													additions are similar
													temperature to stream, so
													although there is a mass buffer
													addition the water
													temperature is not cooler.
													Based on this the expert panel
													anticipated a 12.7% uplift.
													Comments entered RM
													6/7/2016.
				<u> </u>	L	<u> </u>							0///2010.

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	-	High 2018			Bookends	
ESU	Population	Code	nt Unit	Limiting Factor	LF Weight	Bookend	Estimate		Bookend		_	Comments	Estimates Comments
Snake River	Lostine River	WLC7	Lower	8.2: Water	0.00%	75	75	75	80	75	90		In 2016 the expert panel
Spring/Summ			Lostine	Quality: Oxygen									determined that no actions
er Chinook			River										applicable to this limiting
			(Mouth to										factor would be implemented
			Silver Cr.)										within the 2013-2018 period in
													this assessment unit.
													Therefore, no change in
													function percentage is
													expected. Comments entered
													RM 6/7/2016.
Snake River	Lostine River	WLC7	Lower	9.2: Water	35.00%	62.5	62.5	81.8	80	50	80		In 2016 the expert panel
Spring/Summ			Lostine	Quantity:									evaluated actions carried
er Chinook			River	Decreased									forward from the look back
			(Mouth to	Water Quantity									(this was included in the look
			Silver Cr.)										back recommendations). The
													minimum flow project
													contributed additional flows,
													accounting for other
													enhancement. The Carlsen
													project contributes 2.2 cfs
													(May-Jul); 0.96 cfs (Aug-Sep).
													The Wolfe project contributes
													split flows in 3 lines to
													accommodate seasonal
													changes in the flow
													agreement: 12.5 cfs (May-Jul).
													It was unclear whether
													ecological benefits
													downstream would be realized
													given shifting climate
													conditions. Wolfe agreement
													contributes 9.5 cfs (Aug-Sep).
													In 2017 0 cfs will be dedicated
													instream due to Oregon Water
													Resources Department
													administrative issue. This
													instream allocation will renew
													in 2018. Denominator: 35 cfs

				2012			Original	Updated		Original		LF Weight and	
			Assessme	Standardized		Low	2018	2018	High 2018	2033	High 2033	Bookends	
ESU	Population	Code	nt Unit	Limiting Factor	LF Weight	Bookend	Estimate	Estimate	Bookend	Estimate	Bookend	Comments	Estimates Comments
Snake River	Lostine River	WLC8	Upper	7.2: Sediment	33.40%							Bookend values	No actions applicable to this
Spring/Summ			Lostine	Conditions:								not established	limiting factor were performed
er Chinook			River	Increased								for this limiting	within 2013-2018 period in
			(Silver Cr.	Sediment									this assessment unit.
			То	Quantity								entered RM	Therefore, there is no change
			Headwate									6/7/2016.	in function percentage.
			rs)										Comments entered RM
													6/7/2016.
Snake River	Lostine River	WLC8	Upper	8.1: Water	33.30%							Bookend values	No actions applicable to this
Spring/Summ			Lostine	Quality:								not established	limiting factor were performed
er Chinook			River	Temperature								for this limiting	within 2013-2018 period in
			(Silver Cr.									factor. Comment	this assessment unit.
			То									entered RM	Therefore, there is no change
			Headwate									6/7/2016.	in function percentage.
			rs)										Comments entered RM
													6/7/2016.
Snake River	Lostine River	WLC8	Upper	8.2: Water	33.30%							Bookend values	No actions applicable to this
Spring/Summ			Lostine	Quality: Oxygen								not established	limiting factor were performed
er Chinook			River									for this limiting	within 2013-2018 period in
			(Silver Cr.									factor. Comment	this assessment unit.
			То									entered RM	Therefore, there is no change
			Headwate									6/7/2016.	in function percentage.
			rs)										Comments entered RM
													6/7/2016.