NOTES:

This workbook contains habitat actions data downloaded directly from the Taurus database. Actions include those documented during the **Look Back** process covering the **2012-2015** work window.

Individual sheets contain habitat actions data for individual populations of steelhead.

ESU	Population	Code	Assessment Unit	2012 Standardized Limiting Factor	Action	Work Element	Metric	Metric Plan Value	Plan Comment
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2014 Malmberg Lease (RM 18-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.26 cfs	2014-2018
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2015 Malmberg Lease (RM 18-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.26 cfs	2014-2018
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2014 Malmberg Lease (RM 18-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.26 cfs	2014-2018
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2015 Malmberg Lease (RM 18-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.26 cfs	2014-2018
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2014 Sheehy Lease (RM 15-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.53 cfs	2014-2016
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2015 Sheehy Lease (RM 15-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.53 cfs	2014-2016
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2014 Sheehy Lease (RM 15-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.53 cfs	2014-2016
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2015 Sheehy Lease (RM 15-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.53 cfs	2014-2016
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2012 Malmberg Split Season Lease & Option (RM 18-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.19 cfs	2012-2014
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2013 Malmberg Split Season Lease & Option (RM 18-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.19 cfs	2012-2014
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2014 Malmberg Split Season Lease & Option (RM 18-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.19 cfs	2012-2014
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2012 Malmberg Split Season Lease & Option (RM 18-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.19 cfs	2012-2014
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2013 Malmberg Split Season Lease & Option (RM 18-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.19 cfs	2012-2014
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2014 Malmberg Split Season Lease & Option (RM 18-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.19 cfs	2012-2014
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2014 D Ricker TLT Lease (RM 44-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.33 cfs	2014-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2015 D Ricker TLT Lease (RM 44-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.33 cfs	2014-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2014 D Ricker TLT Lease (RM 44-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.33 cfs	2014-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2015 D Ricker TLT Lease (RM 44-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.33 cfs	2014-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2013 D Ricker TLT (RM 44-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.31 cfs	2013-2032
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2014 D Ricker TLT (RM 44-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.31 cfs	2013-2032
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2015 D Ricker TLT (RM 44-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.31 cfs	2013-2032
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2013 D Ricker TLT (RM 44-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.31 cfs	2013-2032
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2014 D Ricker TLT (RM 44-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.31 cfs	2013-2032
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2015 D Ricker TLT (RM 44-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.31 cfs	2013-2032
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2013 LC Lease (RM 16.5-13.5)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2014 LC Lease (RM 16.5-13.5)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2015 LC Lease (RM 16.5-13.5)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2013 LC Lease (RM 16.5-13.5)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2014 LC Lease (RM 16.5-13.5)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2015 LC Lease (RM 16.5-13.5)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2013 DS (RM 16.5-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.12 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2014 DS (RM 16.5-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.12 cfs	2013-2017

ESU	Population	Code	Assessment Unit	2012 Standardized Limiting Factor	Action	Work Element	Metric	Metric Plan Value	Plan Comment
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2015 DS (RM 16.5-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.12 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2013 DS (RM 16.5-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.12 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2014 DS (RM 16.5-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.12 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2015 DS (RM 16.5-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.12 cfs	2013-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2014 Southern Cross Forbearance (RM 45.65-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	1.08 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2014 Southern Cross Forbearance (RM 45.65-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	1.08 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2014 G Smith Full (RM 46-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.22 cfs	2015 as well? Verify, per EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	9.2: Water Quantity: Decreased Water Quantity	2014 G Smith Full (RM 46-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.22 cfs	2015 as well? Verify, per EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS11	South Fork Catherine Creek	4.1: Riparian Condition: Riparian Vegetation	2014 Corral Cr. Road / Culvert removal and large wood	85. Remove/Breach Fish Passage Barrier	1441. # of miles of habitat accessed to the next upstream barrier(s) or likely limit of habitable range	1 mile	Action also credited for LF - 1.1 Habitat Quantity: Anthropogenic barriers, but was not a 2012 LF option from the pull down menu
Snake River Steelhead	Grande Ronde River upper mainstem	UGS11	South Fork Catherine Creek	4.1: Riparian Condition: Riparian Vegetation	2012 South Fork CC Riparian planting, Road decommission, Instream complexity	47. Plant Vegetation	1406. # of riparian miles treated	4.5 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS11	South Fork Catherine Creek	4.2: Riparian Condition: LWD Recruitment	2012 South Fork CC Riparian planting, Road decommission, Instream complexity	47. Plant Vegetation	1406. # of riparian miles treated	4.5 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS11	South Fork Catherine Creek	4.2: Riparian Condition: LWD Recruitment	2014 Corral Cr. Road/ Culvert removal and large wood	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	1 mile	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS11	South Fork Catherine Creek	6.2: Channel Structure and Form: Instream Structural Complexity	2014 Corral Cr. Road/ Culvert removal and large wood	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	1 mile	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS11	South Fork Catherine Creek	7.2: Sediment Conditions: Increased Sediment Quantity	2014 Corral Cr. Road/ Culvert removal and large wood	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	1 mile	Per EP LB: Project included more than 10 cross drain culverts along Corral creek, providing a significant sediment reduction. 12/2/15
Snake River Steelhead	Grande Ronde River upper mainstem	UGS12	North Fork Catherine Creek	1.1: Habitat Quantity: Anthropogenic Barriers	2013 North Fork Catherine Creek Ford Removal (Partial barrier, flow dependent, juvenile)	85. Remove/Breach Fish Passage Barrier	1441. # of miles of habitat accessed to the next upstream barrier(s) or likely limit of habitable range	6 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS13A	Five Points Creek and Tributaries	4.1: Riparian Condition: Riparian Vegetation	2015 Dry Creek Fence Exclosure	40. Install Fence	1488. # of river miles treated	1.5 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS13A	Five Points Creek and Tributaries	8.1: Water Quality: Temperature	2015 Dry Creek Fence Exclosure	40. Install Fence	1488. # of river miles treated	1.5 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	4.1: Riparian Condition: Riparian Vegetation	2015 Meadow Creek Large Wood and Planting Project	47. Plant Vegetation	1406. # of riparian miles treated	7.25 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	4.2: Riparian Condition: LWD Recruitment	2015 Meadow Creek Large Wood and Planting Project	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	7.25 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	6.2: Channel Structure and Form: Instream Structural Complexity	2015 Meadow Creek Large Wood and Planting Project	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	7.25 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	7.2: Sediment Conditions: Increased Sediment Quantity	2015 Meadow Creek Large Wood and Planting Project	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	7.25 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	8.1: Water Quality: Temperature	2015 Meadow Creek Large Wood and Planting Project	47. Plant Vegetation	1406. # of riparian miles treated	7.25 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	4.1: Riparian Condition: Riparian Vegetation	2012-13 Battle/Campbell Creek LWD and Floodplain Restoration. Removed 1.75 miles of RR grade.	47. Plant Vegetation	1406. # of riparian miles treated	3 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	4.2: Riparian Condition: LWD Recruitment	2012-13 Battle/Campbell Creek LWD and Floodplain Restoration. Removed 1.75 miles of RR grade.	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	3 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	6.2: Channel Structure and Form: Instream Structural Complexity	2012-13 Battle/Campbell Creek LWD and Floodplain Restoration. Removed 1.75 miles of RR grade.	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	2.75 miles w/ in steelhead presence (6 miles total)	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	7.2: Sediment Conditions: Increased Sediment Quantity	2012-13 Battle/Campbell Creek LWD and Floodplain Restoration. Removed 1.75 miles of RR grade.	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	6 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	8.1: Water Quality: Temperature	2012-13 Battle/Campbell Creek LWD and Floodplain Restoration. Removed 1.75 miles of RR grade.	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	2.75 miles w/ in steelhead presence (6 miles total)	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	9.2: Water Quantity: Decreased Water Quantity	2012-13 Battle/Campbell Creek LWD and Floodplain Restoration. Removed 1.75 miles of RR grade.	180. Enhance Floodplain/Remove, Modify, Breach Dike	1441. # of miles of habitat accessed to the next upstream barrier(s) or likely limit of habitable range	2 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS15	McCoy Creek, Dark Canyon, and Tributaries	1.1: Habitat Quantity: Anthropogenic Barriers	2012 Dark Canyon Culvert Replacement	85. Remove/Breach Fish Passage Barrier	1441. # of miles of habitat accessed to the next upstream barrier(s) or likely limit of habitable range	2 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	4.1: Riparian Condition: Riparian Vegetation	2013 Rock Creek (on Graves Creek) Phase 1 - Channel activation, LWD, Habitat Enhancement	47. Plant Vegetation	1406. # of riparian miles treated	6 miles	750 LWD pieces, 128 log complexes, 25 riffle/wood complexes installed
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	4.2: Riparian Condition: LWD Recruitment	2013 Rock Creek (on Graves Creek) Phase 1 - Channel activation, LWD, Habitat Enhancement	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	6 miles	750 LWD pieces, 128 log complexes, 25 riffle/wood complexes installed
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	6.1: Channel Structure and Form: Bed and Channel Form	2013 Rock Creek (on Graves Creek) Phase 1 - Activated channel, LWD, Habitat Enhancement	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	3 miles	6 miles total length for action, but only 3 miles in main channel to attribute to LF 6.1. 750 LWD pieces, 128 log complexes, 25 riffle/wood complexes installed
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	6.2: Channel Structure and Form: Instream Structural Complexity	2013 Rock Creek (on Graves Creek) Phase 1 - Activated channel, LWD, Habitat Enhancement	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	3 miles	6 miles total length for action, but only 3 miles in main channel to attribute to LF 6.1. 750 LWD pieces, 128 log complexes, 25 riffle/wood complexes installed
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	7.2: Sediment Conditions: Increased Sediment Quantity	2013 Rock Creek (on Graves Creek) Phase 1 - Channel activation, LWD, Habitat Enhancement	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	6 miles	750 LWD pieces, 128 log complexes, 25 riffle/wood complexes installed
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	4.1: Riparian Condition: Riparian Vegetation	2014-15 Rock Creek Phase 2 - Habitat Enhancement, levee removal	47. Plant Vegetation	1406. # of riparian miles treated	5 miles	5 miles habitat enhancement, 3,500cy levee removal. Still ongoing, won't be completed until 2016 or beyond per EP LB 12/2/15
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	4.2: Riparian Condition: LWD Recruitment	2014-15 Rock Creek Phase 2 - Habitat Enhancement, levee removal	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	5 miles	5m habitat enhance, 3,500cy levee removal. Per EP LB, ongoing and won't be completed until 2016 or beyond.12/2/2015.
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	6.1: Channel Structure and Form: Bed and Channel Form	2014-15 Rock Creek Phase 2 - Habitat Enhancement, levee removal	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	5 miles	5m habitat enhancement, 3,500cy levee removal
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	6.2: Channel Structure and Form: Instream Structural Complexity	2014-15 Rock Creek Phase 2 - Habitat Enhancement, levee removal	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	5 miles	5m habitat enhancement, 3,500cy levee removal
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	7.2: Sediment Conditions: Increased Sediment Quantity	2014-15 Rock Creek Phase 2 - Habitat Enhancement, levee removal	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	5 miles	5m habitat enhancement, 3,500cy levee removal

ESU	Population	Code	Assessment Unit	2012 Standardized Limiting Factor	Action	Work Element	Metric	Metric Plan Value	Plan Comment
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	8.1: Water Quality: Temperature	2014-15 Rock Creek Phase 2 - Habitat Enhancement, levee removal	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	5 miles	5m habitat enhancement, 3,500cy levee removal
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	9.2: Water Quantity: Decreased Water Quantity	2014-15 Rock Creek Phase 2 - Habitat Enhancement, levee removal	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	5 miles	5m habitat enhancement, 3,500cy levee removal
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	8.1: Water Quality: Temperature	2013 Rock Creek (on Graves Creek) Phase 1 - Activated Channel, LWD, Habitat Enhancement	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	6 miles	750 LWD pieces, 128 log complexes, 25 riffle/wood complexes installed
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	9.2: Water Quantity: Decreased Water Quantity	2013 Rock Creek (on Graves Creek) Phase 1 - Activated channel, LWD, Habitat Enhancement	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	1 mile	750 LWD pieces, 128 log complexes, 25 riffle/wood complexes installed
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	8.1: Water Quality: Temperature	2013 City Of Lagrande Reservoir Beaver Creek releases	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	3-4 cfs late summer	2013-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	8.1: Water Quality: Temperature	2014 City Of Lagrande Reservoir Beaver Creek releases	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	3-4cfs late summer	2013-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	8.1: Water Quality: Temperature	2015 City Of Lagrande Reservoir Beaver Creek releases	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	3-4 cfs late summer	2013-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	9.2: Water Quantity: Decreased Water Quantity	2013 City Of Lagrande Reservoir Beaver Creek releases	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	3-4 cfs late summer	2013-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	9.2: Water Quantity: Decreased Water Quantity	2014 City Of Lagrande Reservoir Beaver Creek releases	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	3-4 cfs late summer	2013-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	9.2: Water Quantity: Decreased Water Quantity	2015 City Of Lagrande Reservoir Beaver Creek releases	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	3-4 cfs late summer	2013-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS17	Upper Grande Ronde River Mainstem, Meadow Creek to Limber Jim Creek	4.1: Riparian Condition: Riparian Vegetation	2012 Upper Grande Ronde Pod fencing protection	40. Install Fence	1401. # of miles of fence installed in a riparian area	1 mile, pod/planting exclusion only	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS17	Upper Grande Ronde River Mainstem, Meadow Creek to Limber Jim Creek	4.2: Riparian Condition: LWD Recruitment	2012 Upper Grande Ronde Pod fencing protection	40. Install Fence	1401. # of miles of fence installed in a riparian area	1 mile, pod/planting exclusion only	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS17	Upper Grande Ronde River Mainstem, Meadow Creek to Limber Jim Creek	7.2: Sediment Conditions: Increased Sediment Quantity	2012 Upper Grande Ronde Pod fencing protection	40. Install Fence	1401. # of miles of fence installed in a riparian area	1 mile, pod/planting exclusion only	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS17	Upper Grande Ronde River Mainstem, Meadow Creek to Limber Jim Creek	8.1: Water Quality: Temperature	2012 Upper Grande Ronde Pod fencing protection	40. Install Fence		1 mile, pod/planting exclusion only	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS17	Upper Grande Ronde River Mainstem, Meadow Creek to Limber Jim Creek	6.2: Channel Structure and Form: Instream Structural Complexity	2014 Upper Grande Ronde Small Wood and Pods	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	5 miles (8 miles total, 3 miles in AU UGS19)	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS19	Upper Grande Ronde River Mainstem and Tributaries, Clear Creek to Headwaters	4.1: Riparian Condition: Riparian Vegetation	2014 Upper Grande Ronde Small Wood and Pods	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	3 miles	Note: 8 miles total, 5 miles in AU UGS17 per EP LB 12/2/15
Snake River Steelhead	Grande Ronde River upper mainstem	UGS19	Upper Grande Ronde River Mainstem and Tributaries, Clear Creek to Headwaters	4.2: Riparian Condition: LWD Recruitment	2014 Upper Grande Ronde Small Wood and Pods	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	3 miles	Note: 8 miles total, 5 miles in AU UGS17 per EP LB 12/2/15
Snake River Steelhead	Grande Ronde River upper mainstem	UGS19	Upper Grande Ronde River Mainstem and Tributaries, Clear Creek to Headwaters	7.2: Sediment Conditions: Increased Sediment Quantity	2014 Upper Grande Ronde Small Wood and Pods	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	3 miles	Note: 8 miles total, 5 miles in AU UGS17 per EP LB 12/2/15
Snake River Steelhead	Grande Ronde River upper mainstem	UGS22	Sheep Creek and Tributaries	4.1: Riparian Condition: Riparian Vegetation	2014 Chicken Creek Large Wood and Planting Project	47. Plant Vegetation	1406. # of riparian miles treated	2 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS22	Sheep Creek and Tributaries	4.2: Riparian Condition: LWD Recruitment	2014 Chicken Creek Large Wood and Planting Project	47. Plant Vegetation	1406. # of riparian miles treated	2 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS22	Sheep Creek and Tributaries	6.2: Channel Structure and Form: Instream Structural Complexity	2014 Chicken Creek Large Wood and Planting Project	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	2 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS22	Sheep Creek and Tributaries	8.1: Water Quality: Temperature	2014 Chicken Creek Large Wood and Planting Project	47. Plant Vegetation	1406. # of riparian miles treated	2 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS22	Sheep Creek and Tributaries	4.1: Riparian Condition: Riparian Vegetation	2014 Sheep Creek Large Wood and Planting Project	47. Plant Vegetation	1406. # of riparian miles treated	2.5 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS22	Sheep Creek and Tributaries	4.2: Riparian Condition: LWD Recruitment	2014 Sheep Creek Large Wood and Planting Project	47. Plant Vegetation	1406. # of riparian miles treated	2.5 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS22	Sheep Creek and Tributaries	6.2: Channel Structure and Form: Instream Structural Complexity	2014 Sheep Creek Large Wood and Planting Project	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	2.5 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS22	Sheep Creek and Tributaries	8.1: Water Quality: Temperature	2014 Sheep Creek Large Wood and Planting Project	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	2.5 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS3	Middle Grande Ronde River Mainstem - Grande Ronde Valley	7.2: Sediment Conditions: Increased Sediment Quantity	2014 Voelz Project GR River Water Quality and Passage - Push Up dam removal	85. Remove/Breach Fish Passage Barrier	1441. # of miles of habitat accessed to the next upstream barrier(s) or likely limit of habitable range	.2 mile	Updated action to Voelz Project during EP LB 12/1/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS8	Willow Creek and Tributaries	6.1: Channel Structure and Form: Bed and Channel Form	2012 Willow Creek (Oregon Ag)	30. Realign, Connect, and/or Create Channel	1754. # of miles of side channel created in the freshwater non-tidal zone	1 mile channel const/ 4 miles hab enhance	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS8	Willow Creek and Tributaries	6.2: Channel Structure and Form: Instream Structural Complexity	2012 Willow Creek (Oregon Ag)	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	5 miles* (1 mile channel construction, 4 miles habitat enhancement)	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS8	Willow Creek and Tributaries	7.2: Sediment Conditions: Increased Sediment Quantity	2012 Willow Creek (Oregon Ag)	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	5 miles* (1 mile channel const, 4 miles hab enh)	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS8	Willow Creek and Tributaries	8.1: Water Quality: Temperature	2012 Willow Creek (Oregon Ag)	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	5 miles* (*1 mile channel const, 4 miles hab enh)	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	8.1: Water Quality: Temperature	2013 All Leases (see LF 9.2 for individual leases)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	2.97 cfs	See AU UGS9A LF9.2 for individual leases combined
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	8.1: Water Quality: Temperature	2014 All Leases (see LF 9.2 for individual leases)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	4.93 cfs	See AU UGS9A LF9.2 for individual leases combined
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	8.1: Water Quality: Temperature	2015 All Leases (see LF 9.2 for individual leases)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	2.91 cfs	See AU UGS9A LF9.2 for individual leases combined
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2013-2015 Davis to mouth	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.76 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2014-15 Malmberg Lease	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.26 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2012-2014 Malmberg SSL	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.19 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS13A	Five Points Creek and Tributaries	1.1: Habitat Quantity: Anthropogenic Barriers	2015 Union Pacific Diversion 4' dam removal - USFS (Five Points Creek). Partial fish barrier, improved juvenile passage for 21 mile reach	84. Remove/Install Diversion	1647. # of small scale push-up or diversion dam partial passage barriers in the freshwater non-tidal zone	1 dam (21 miles improved juvenile access)	Added during EP LB 12/1/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS13A	Five Points Creek and Tributaries	6.2: Channel Structure and Form: Instream Structural Complexity	2015 Union Pacific Diversion Removal & LWD - Phase 1 (7 sites x 15pieces/site downstream)	29. Increase Aquatic and/or Floodplain Complexity	1388. # of structures installed	7 structures (0.5 miles, 15 pieces per site)	Added during EP LB 12/1/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS13A	Five Points Creek and Tributaries	6.1: Channel Structure and Form: Bed and Channel Form	2015 Union Pacific Diversion Removal & LWD - Phase 1 (7 sites x 15pieces/site downstream)	29. Increase Aquatic and/or Floodplain Complexity	1388. # of structures installed	7 structures (0.5 miles)	Added during EP LB 12/1/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	6.1: Channel Structure and Form: Bed and Channel Form	2015 Meadow Creek Large Wood and Planting Project - 29 structures total	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	7.25 miles	Added to attribute to LF6.1 during EP LB 12/1/15

ESU	Population	Code	Assessment Unit	2012 Standardized Limiting Factor	Action	Work Element	Metric	Metric Plan Value	Plan Comment
Snake River Steelhead	Grande Ronde River upper mainstem	UGS14	Meadow Creek and Tributaries (Except Dark Canyon and McCoy Creeks)	6.1: Channel Structure and Form: Bed and Channel Form	2012-13 Battle/Campbell Creek LWD and Floodplain Restoration. Removed 1.75 miles of RR grade.	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	2.75 miles w/ in steelhead presence (6 miles total)	Added to attribute to LF6.1 during EP LB 12/1/15
Snake River Steelhead	Grande Ronde River upper mainstem	UGS16	Rock, Whiskey, Spring, Jordan, Bear, and Beaver Creeks and Tributaries	1.1: Habitat Quantity: Anthropogenic Barriers	2013 Spring Creek culvert replacement	184. Install Fish Passage Structure	1407. Was barrier Full or Partial?	1 culvert replacement- partial barrier to 2.5 miles	Added per EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS17	Upper Grande Ronde River Mainstem, Meadow Creek to Limber Jim Creek	4.1: Riparian Condition: Riparian Vegetation	2014 Warm Springs Livestock Fencing	40. Install Fence	1402. # of miles of fence installed in an upland area	0.5 mile - livestock exclusion	Added during EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS17	Upper Grande Ronde River Mainstem, Meadow Creek to Limber Jim Creek	4.2: Riparian Condition: LWD Recruitment	2014 Warm Springs Livestock Fencing	40. Install Fence	1402. # of miles of fence installed in an upland area	0.5 miles	Added during EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS17	Upper Grande Ronde River Mainstem, Meadow Creek to Limber Jim Creek	7.2: Sediment Conditions: Increased Sediment Quantity	2014 Warm Springs Livestock Fencing	40. Install Fence	1402. # of miles of fence installed in an upland area	0.5 miles	Added during EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS19	Upper Grande Ronde River Mainstem and Tributaries, Clear Creek to Headwaters	6.2: Channel Structure and Form: Instream Structural Complexity	2014 Upper Grande Ronde Small Wood and Pods	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	3 miles	Note: 8 miles total, 3 miles in AU UGS19 and 5 miles in UGS17
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	8.1: Water Quality: Temperature	2012 Boyd Little Creek SSL (Little Creek RM 3.54-0)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.21 cfs	2012-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	9.2: Water Quantity: Decreased Water Quantity	2012 Boyd Little Creek SSL (Little Creek RM 3.54-0)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.21 cfs	2012-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	8.1: Water Quality: Temperature	2013 Boyd Little Creek SSL (Little Creek RM 3.54-0)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.21 cfs	2012-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	8.1: Water Quality: Temperature	2014 Boyd Little Creek SSL (Little Creek RM 3.54-0)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.21 cfs	2012-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	8.1: Water Quality: Temperature	2015 Boyd Little Creek SSL (Little Creek RM 3.54-0)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.21 cfs	2012-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	9.2: Water Quantity: Decreased Water Quantity	2013 Boyd Little Creek SSL (Little Creek RM 3.54-0)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.21 cfs	2012-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	9.2: Water Quantity: Decreased Water Quantity	2014 Boyd Little Creek SSL (Little Creek RM 3.54-0)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.21 cfs	2012-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	9.2: Water Quantity: Decreased Water Quantity	2015 Boyd Little Creek SSL (Little Creek RM 3.54-0)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.21 cfs	2012-2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	8.1: Water Quality: Temperature	2014 NFWF Lease - RM 3	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.15 cfs	Verify single year or multiple year lease
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	8.1: Water Quality: Temperature	2014 CTUIR CBWTP Lease - RM 3	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	2014-2032, according to Pisces contract. Added during EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	9.2: Water Quantity: Decreased Water Quantity	2013 CTUIR CBWTP Lease - RM 3	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	1.0 cfs	2013 only, per EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	9.2: Water Quantity: Decreased Water Quantity	2013 CTUIR CBWTP Lease - RM 3	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	1.0 cfs	2013 only, per EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	8.1: Water Quality: Temperature	2013 CTUIR CBWTP Lease - RM 3	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	1.0 cfs	2013 only, per EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	9.2: Water Quantity: Decreased Water Quantity	2014 NFWF Lease - RM 3	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.15 cfs	Verify single year or multiple year lease
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	9.2: Water Quantity: Decreased Water Quantity	2014 CTUIR CBWTP Lease - RM 3	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	2014-2032, according to Pisces contract. Added during EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	8.1: Water Quality: Temperature	2015 CTUIR CBWTP Lease - RM 3	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	2014-2032, according to Pisces contract. Added during EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	9.2: Water Quantity: Decreased Water Quantity	2015 CTUIR CBWTP Lease - RM 3	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	2014-2032, according to Pisces contract. Added during EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	1.1: Habitat Quantity: Anthropogenic Barriers	2012 Little Creek diversion project	84. Remove/Install Diversion	1441. # of miles of habitat accessed to the next upstream barrier(s) or likely limit of habitable range	1.5 miles	Partial barrier for juveniles. Added by EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	6.1: Channel Structure and Form: Bed and Channel Form	2014 Ladd Creek - Phase 2: Hwy 203 Bridge,Channel realignment	30. Realign, Connect, and/or Create Channel	1753. # of miles of main channel treated in the freshwater non-tidal zone	1.1 miles	Added by EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	5.2: Peripheral and Transitional Habitats: Floodplain Condition	2014 Ladd Creek - Phase 2: Hwy 203 Bridge,Channel realignment	180. Enhance Floodplain/Remove, Modify, Breach Dike	1567. # of miles of dike removed or modified in the riparian area	1.1 miles	Added per EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9B	Lower Catherine Creek and Tributaries (contributing area and tributaries only)	6.2: Channel Structure and Form: Instream Structural Complexity	2014 Ladd Creek - Phase 2: Hwy 203 Bridge,Channel realignment	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	1.1 miles* (but only 5% estimated instream complexity improvements)	Added by EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	4.1: Riparian Condition: Riparian Vegetation	2012 CC RM 37 Restoration	47. Plant Vegetation	1403. # of riparian acres treated	16 acres	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	4.2: Riparian Condition: LWD Recruitment	2012 CC RM 37 Restoration	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.75 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	5.1: Peripheral and Transitional Habitats: Side Channel and Wetland Conditions	2012 CC RM 37 Restoration	30. Realign, Connect, and/or Create Channel	1473. # of acres of wetland affected by treatment	0.4 acres	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	5.2: Peripheral and Transitional Habitats: Floodplain Condition	2012 CC RM 37 Restoration	180. Enhance Floodplain/Remove, Modify, Breach Dike	1403. # of riparian acres treated	4.8 acres	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	6.1: Channel Structure and Form: Bed and Channel Form	2012 CC RM 37 Restoration	30. Realign, Connect, and/or Create Channel	1753. # of miles of main channel treated in the freshwater non-tidal zone	0.75 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	6.2: Channel Structure and Form: Instream Structural Complexity	2012 CC RM 37 Restoration	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.75 miles	

ESU	Population	Code	Assessment Unit	2012 Standardized Limiting Factor	Action	Work Element	Metric	Metric Plan Value	Plan Comment
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	7.2: Sediment Conditions: Increased Sediment Quantity	2012 CC RM 37 Restoration	47. Plant Vegetation	1627. # of riparian wetland miles treated	0.75 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10A	Middle Catherine Creek and Tributaries - Pyles Creek to Swackhammer	8.1: Water Quality: Temperature	2012 CC RM 37 Restoration	47. Plant Vegetation	1627. # of riparian wetland miles treated	0.75 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	4.1: Riparian Condition: Riparian Vegetation	CC Baum Restoration - Side channel	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.25 miles	Added during EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	5.1: Peripheral and Transitional Habitats: Side Channel and Wetland Conditions	CC Baum Restoration - Side Channel	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.25 miles	Added during EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	6.1: Channel Structure and Form: Bed and Channel Form	CC Baum Restoration - Side Channel	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.25 miles	2015 EP LB: Panel estimated a 5% improvement prorate factor for 0.25 miles treated for 1 project, resulting in a 0.03% uplift over the 36 mile steelhead presence reach. Added per EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	6.2: Channel Structure and Form: Instream Structural Complexity	CC Baum Restoration - Side Channel	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.25 miles	Added per EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS11	South Fork Catherine Creek	6.2: Channel Structure and Form: Instream Structural Complexity	2012 South Fork CC Riparian planting, Road decommission, Instream complexity	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	4.5 miles	Added to LF 6.2 and updated Action description during EP LB 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS11	South Fork Catherine Creek	7.2: Sediment Conditions: Increased Sediment Quantity	2012 South Fork CC Riparian planting, Road decommission, Instream complexity	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	4.5 miles	Added to LF 6.2 during EP LB. Sediment reduction due to culvert replacement and road decommission. 12/2/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	1.1: Habitat Quantity: Anthropogenic Barriers	2014 CC RM 44 - Phase II Push up dam removal. Smith and Southern Cross dams (Juvenile barriers)	85. Remove/Breach Fish Passage Barrier	1441. # of miles of habitat accessed to the next upstream barrier(s) or likely limit of habitable range	18 miles, 2 barriers	Updated from 4 barriers to 2 removed per EP LB 12/3/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	4.1: Riparian Condition: Riparian Vegetation	2013 CC RM 44 Phase I - Planting (1400')	47. Plant Vegetation	1406. # of riparian miles treated	0.27 miles	Updated to 0.27 miles during EP LB. Kirby, Fite, Smith properties- small scale planting. 5 acres consider in lookforward; as per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	4.1: Riparian Condition: Riparian Vegetation	2014 CC RM 44 Phase II - Planting/Fencing	47. Plant Vegetation	1406. # of riparian miles treated	1.13 miles	Updated metric to 1.13 miles during EP LB. 104 acres consider in look forward as per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	4.2: Riparian Condition: LWD Recruitment	2013 CC RM 44 Phase I - Planting (1400')	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.27 miles	Updated to 0.27 miles (1400') from 1.5 miles during EP LB 12/3/15
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	4.2: Riparian Condition: LWD Recruitment	2014 CC RM 44 Phase II - Planting/Fencing	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	1.13 miles	Udpated to 1.13 miles from 1.1m per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	5.1: Peripheral and Transitional Habitats: Side Channel and Wetland Conditions	2014 CC RM 44 Phase II - Side channels and Complexity	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	1.13 miles	Updated per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	5.1: Peripheral and Transitional Habitats: Side Channel and Wetland Conditions	2015 CC RM 44 Phase III - Side channel w/ alcoves	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.66 miles	Added per EP LB 12/3/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	5.2: Peripheral and Transitional Habitats: Floodplain Condition	2015 CC RM 44 Phase III - Side channels w/ alcoves	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.66 miles	Benefit to LF 5.2 floodplains from this project is low, although side channels increase activated floodplain capacity, updated per EP LB 12/3/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	6.1: Channel Structure and Form: Bed and Channel Form	2013 CC RM 44 Phase I - Stabilization (862')	47. Plant Vegetation	1406. # of riparian miles treated	0.16 miles	Updated per EP LB 12/3/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	6.1: Channel Structure and Form: Bed and Channel Form	2014 CC RM 44 Phase II - Planting/Fencing/Stabilization	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	1.13 miles	Updated per EP LB 12/3/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	6.2: Channel Structure and Form: Instream Structural Complexity	CC RM 44 Phases I, II, & III - LWD / Instream complexity	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	2 miles	Combined all 3 phases of instream work in this stretch. Updated per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	7.2: Sediment Conditions: Increased Sediment Quantity	2013 CC RM 44 Phase I - Stabilization (862')	47. Plant Vegetation	1406. # of riparian miles treated	0.16 miles	Updated per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	7.2: Sediment Conditions: Increased Sediment Quantity	2014 CC RM 44 Phase II - Planting/Fencing/Stabilization	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	1.13 miles	Updated per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	7.2: Sediment Conditions: Increased Sediment Quantity	2015 CC RM 44 Phase III - Side channels w/ alcoves	47. Plant Vegetation	1406. # of riparian miles treated	0.66 miles	Updated per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	8.1: Water Quality: Temperature	2015 CC RM 44 Phase III - Side Channels	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.66 miles	EP determined riparian planting has not realized growth that would have any temperature benefits. Updated per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	8.1: Water Quality: Temperature	2014 CC RM 44 Phase II - Planting/Fencing	47. Plant Vegetation	1406. # of riparian miles treated	1.13 miles	EP determined riparian planting has not realized growth that would have any temperature benefits. Updated per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	8.1: Water Quality: Temperature	2013 CC RM 44 Phase I - Planting (1400')	47. Plant Vegetation	1406. # of riparian miles treated	0.27 miles	EP determined riparian planting has not realized growth that would have any temperature benefits. Updated per 12.3.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	9.2: Water Quantity: Decreased Water Quantity	Pipeline - Catherine Creek RM 44 Phase II Restoration	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0 (future 0.6 cfs)	0.6 cfs from 8,000 ft of pipeline. Per EP, does not start until 2016 Copied from CCCB3 as per 12.2.15 EP lookback
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	9.2: Water Quantity: Decreased Water Quantity	2013-2015 D Ricker TLT (RM 44-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.39 cfs	0.39 cfs in 10B, but only 0.31cfs in 10A. Lease is 2013-2017, then renewed 2018-2032. Added during EP LB 12/3/15 to AU UGS10B
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	9.2: Water Quantity: Decreased Water Quantity	2014-2015 Glen Smith Full (RM 46-12)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.22 cfs	Added to AU UGS10B during EP LB 12/3/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	9.2: Water Quantity: Decreased Water Quantity	2014 Southern Cross Forbearance (RM 45.65-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	1.08 cfs	Added to AU UGS10B during EP LB 12/3/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	9.2: Water Quantity: Decreased Water Quantity	2014-2015 D Ricker TLT Lease (RM 44-11)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.33 cfs	Lease 2014-2017
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	5.1: Peripheral and Transitional Habitats: Side Channel and Wetland Conditions	2013 CC RM 44 Phase I - Side channel habitat	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.16 miles	Added per EP LB. Phase I - Kirby, Fite and Smith properties. EP LB 12/3/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	6.1: Channel Structure and Form: Bed and Channel Form	2015 CC RM 44 Phase III - Side channels w/ alcoves	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.66 miles	Added per EP LB 12/3/2015
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	8.1: Water Quality: Temperature	2012 All Leases (see LF 9.2 for individual leases)	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.4 cfs	See AU UGS9A LF9.2 for individual leases combined

ESU	Population	Code	Assessment Unit	2012 Standardized Limiting Factor	Action	Work Element	Metric	Metric Plan Value	Plan Comment
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2014-15 Sheehy Lease	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.53 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2014-15 D Ricker Lease	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.34 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2013-2015 DR TLT	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.31 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2013-2015 LC Lease	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2013-2015 DS Lease	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.12 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2014 Southern Cross Forbearance	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	1.08 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2014 G Smith Full	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.22 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2012-2015 Boyd Little Creek SSL	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.21 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2014 Fresh Water Trust	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.15 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2014 CTUIR lease	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	0.38 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	9.2: Water Quantity: Decreased Water Quantity	2013 CTUIR lease	164. Acquire Water Instream	1453. Flow of water returned to the stream as prescribed in the water acquisition in cubic-feet per second (cfs)	1.0 cfs	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS10B	Middle Catherine Creek and Tributaries - Swackhammer to North and South Forks	4.1: Riparian Condition: Riparian Vegetation	Little Catherine Cr/Milk Creek Fencing and Planting, Pinship 18.63 acres/1.8 miles 35 buffer on both banks.	47. Plant Vegetation	1406. # of riparian miles treated	1.8 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS9A	Lower Catherine Creek and Tributaries (mainstem migration corridor only)	4.2: Riparian Condition: LWD Recruitment	CC Baum Restoration - Side Channel	29. Increase Aquatic and/or Floodplain Complexity	1387. # of miles of stream with improved complexity	0.25 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS17	Upper Grande Ronde River Mainstem, Meadow Creek to Limber Jim Creek	8.1: Water Quality: Temperature	2012 Upper Grande Ronde LWD and Planting	47. Plant Vegetation	1406. # of riparian miles treated	2 miles	Added Action to LF7.2&8.1 during re-review of LB 2018 and 2033 uplifts during EP LF. -MAH.3.8.2016
Snake River Steelhead	Grande Ronde River upper mainstem	UGS7	Indian Creek and Tributaries	4.1: Riparian Condition: Riparian Vegetation	Little Indian Creek Fence - USFS	40. Install Fence	1401. # of miles of fence installed in a riparian area	0.25 miles	Re-added action following post-LB panel review. Reviewed with EP prior to the LF. -MAH.3.8.2016
Snake River Steelhead	Grande Ronde River upper mainstem	UGS7	Indian Creek and Tributaries	7.2: Sediment Conditions: Increased Sediment Quantity	Little Indian Creek Project			?	See Chinook AU for Project details. Look back panel missed original uplift, but revised on 3/28 and inputted the 0.7% uplift into Taurus on 5/26/2016. -MAH5.26.16
Snake River Steelhead	Grande Ronde River upper mainstem	UGS8	Willow Creek and Tributaries	1.1: Habitat Quantity: Anthropogenic Barriers	2012 Lanman Creek Barrier Replacement	85. Remove/Breach Fish Passage Barrier	1441. # of miles of habitat accessed to the next upstream barrier(s) or likely limit of habitable range	1.4 miles	
Snake River Steelhead	Grande Ronde River upper mainstem	UGS8	Willow Creek and Tributaries	1.1: Habitat Quantity: Anthropogenic Barriers	2012 Willow Creek - Coon Creek Culvert	85. Remove/Breach Fish Passage Barrier	1441. # of miles of habitat accessed to the next upstream barrier(s) or likely limit of habitable range	0.42 miles	