Appendix A-4 Population and Watershed Spreadsheets

This Workbook is in support of the Watershed and Fisheries Restoration Biological Assessment July 2015

This workbook contains 6 tabs, this being the first one.

Tab 2 through Tab 4 present the same information, but each is organized by a different category

Tab 5 includes the results of the Watershed Condition Framework Analysis at the 6th field Hydrologic Unit Code.

Tab 6 presents a cross walk of the Watershed Condition Framework and the Matrix of Pathways and Indicators

Tab	Tab Name	What's in each one…..			
Tab 2	By Major Rivers Summary	Rivers North to South	ESA Species	Diversity Strata	FSS Species
Tab 3	By Species Summary	Diversity Stratum	Species	Species Present on USFS lands?	List of Populations

Tab 4	Stresses and Threats	**Key limiting Stresses and Threats**	**Smith**	**Lower Klamath River**	**Middle Klamath River**	**Salmon River**	**South Fork Trinity River**	**Lower Trinity River**	**Redwood Creek**	**Mad River**	**Lower Eel/Van Duzen rivers**	**North Fork Eel River**
		% Forest Service Lands	67%	23%	44%	23%	10%	13%	1%	36%	10%	

By species (SONCC Recovery Plan and the draft Multi species)

Stresses	List of stresses the FS influences and list of stresses FS does not
Threats	list of threats the FS has control over and a list of threats FS does not influence

Tab 5	All HUCs	**Main Rivers**	**HUC12_Watersheds with SRNF lands within November 2014 HUC names**	**HUC12_Code**	**Total Square Miles**	**Square Miles of SRNF lands**	**% SRNF lands in Basin**	**SONCC present on FS lands?**	**Chinook Species on FS Land? ESA or FSS**	**Steelhead Species on FS lands ESA or FSS**

List of all watersheds and if species are present on FS lands.

Watershed Condition Framework results

Tab 6 WCATT_MPI

Rivers North to South	ESA Species	Diversity Strata	FSS Anad Salmonid Species
Six Rivers			
Smith River	SONCC Coho	Central Coast Basin	SOCC Chinook KMP Steelhead Green Sturgeon
Klamath River	SONCC Coho	Central Coast Basin, Interior Klamath River	UKTR Chinook KMP Steelhead Green Sturgeon
Salmon River	SONCC Coho	Interior Klamath River	UKTR Chinook KMP Steelhead Green Sturgeon
Trinity River	SONCC Coho	Lower Trinity River	UKTR Chinook KMP Steelhead Green Sturgeon
Redwood Creek	SONCC Coho, NC Steelhead, CC Chinook	Central Coast Basin, North Mountain Interior, Northern Coastal,	N/A
Mad River	SONCC Coho, NC Steelhead, CC Chinook	Central Coast Basin, North Mountain Interior, Northern Coastal,	N/A
Van Duzen River	SONCC Coho, NC Steelhead, CC Chinook	Southern Coastal Basin, North Mountain Interior North Mountain Interior	N/A
Eel River	SONCC Coho, NC Steelhead, CC Chinook	Southern Coastal Basin, North Mountain Interior North Mountain Interior	N/A

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Diversity Stratum	Species	Species Present on USFS lands?	Populations
Central Coast Basins	Coho	Yes	Smith River, Lower Klamath River
Interior Klamath River	Coho	Yes	Middle Klamath River, Salmon River
Interior Trinity River	Coho	Yes	Lower Trinity River, South Fork Trinity River
Southern Coastal Basins	Coho	No	Lower Eel and Van Duzen Rivers
Interior Eel River	Coho	No	Mainstem Eel River, North Fork Eel River
Central Coast Basins	Coho	No	Redwood Creek, Mad River
North Mountain Interior	Chinook	No	Lower Eel-(Van Duzen/Larabee), Upper Eel River
North Coastal	Chinook	No	Redwood Creek, Mad River
North Mountain Interior	Steelhead	Yes	Van Duzen River, Dobbyn Creek, North Fork Eel River
Northern Coastal/North Mountain Interior	Steelhead	No, Yes (Mad River)	Redwood Creek, Mad River

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SONCC - Key limiting Stresses and Threats - Juvenile summer rearing was identified in all populations as the key life stage	**Smith**	**Lower Klamath River**	**Middle Klamath River**	**Salmon River**	**South Fork Trinity River**	**Lower Trinity River**
% Forest Service Lands	67%	23%	44%	23%	10%	13%
Fish Species	Coho	Coho	Coho	Coho	Coho	Coho
Stresses						
Impaired Water Quality	High	Medium	High	Medium	High	Medium
Degraded Riparian Forest Conditions	Medium	High	Medium	High	High	Medium
Altered Sediment Supply	Medium	Very High	High	Medium	High	High
Lack of Floodplain and Channel Structure	High	Very High	High	High	High	Very High
Altered Hydrologic Function	Low	High	High	Low	High	High
Barriers	High	Medium	High	Low	High	Medium
Forest Service Does Not Influence						
Adverse Hatchery-Related Effects	Medium	Medium	Medium	Medium	Very High	Very High
Increased Disease/Predation/Competition	Low	Medium	High	Medium	Low	Medium
Impaired Esturay/Mainstem Function	Very High	High	High	Medium	Medium	Medium
Adverse Fishery-and Collection-related Effects	Medium	Low	Low	Low	Low	Low
Threats (*italics are from multispecies draft*)						
Climate Change (*Severe Weather Patterns*)	Medium	High	High	Very High	High	High
Roads (*and railroads)*	High	High	Medium	Medium	Very High	High
Channelization/Diking (*Channel Modification*)	High	Very High	Low	N/A	Low	Very High
Timber Harvest (*Logging and Wood harvest)*	Low	High	Low	Low	Low	Medium
High Severity Fire (*Fuel management, suppression)*	Medium	Low	High	Medium	Medium	Medium
Invasive Non-Native/Alien Species	Medium	Medium	Low	Low	Low	Low
Road-Stream Crossing Barriers	High	Medium	Medium	Low	Low	Low
Livestock Farming and Ranching						
Disease/Predation/Competition						
Recreational Areas and Activities						
Threat Status for targets and projects						
Forest Service Does Not Influence						
Agricultural Practices	High	Very High	Low	Low	Medium	Medium
Urban/Residential/Industrial Dev	Medium	Medium	N/A	Low	Low	Medium
Mining/Gravel Extraction	Medium	Medium	Medium	Medium	Low	Low
Dams/Diverstion	Low	High	High	Low	High	High
Hatcheries	Medium	Medium	Medium	Medium	Very High	Very High
Fishing and Collectiong	Low	Low	Low	Low	Low	Low

Co-Manager's MultiSpeices Recovery Play

not applicable to coho

Stresses/threats not identified

Threats from Multi-species - slightly different phrasing/grouping

Watershed and Fisheries Restoration Program Biological

Appendix A - Tab 4

SONCC - Key limiting Stresses and Threats - Juvenile summer rearing was identified in all populations as the key life stage	**Redwood Creek**	**Redwood Creek**	**Redwood Creek**	**Mad River**	**Mad River**	**Mad River**	**Lower Eel/Van Duzen rivers**	**Lower Eel/Van Duzen rivers**	**Lower Eel/Van Duzen rivers**	**Mainstem Eel River**	**Upper Eel River (includes NF Eel)**	**North Fork Eel River**	**North Fork Eel River**
% Forest Service Lands	1%			36%			10%		VD - 21%			41%	
Fish Species	Coho	Chinook	Steelhead	Coho	Chinook	Steelhead	Coho	Chinook	Steelhead	Coho	Chinook	Coho	Steelhead
Stresses													
Impaired Water Quality	Very High			Very High			High			High		High	
Degraded Riparian Forest Conditions	High			High			High			High		High	
Altered Sediment Supply	High			Very High			Very High			Very High		Very High	
Lack of Floodplain and Channel Structure	Very High			Very High			High			Very High		High	
Altered Hydrologic Function	Medium			Medium			Medium			High		High	
Barriers	Low			Medium			Low			Medium		Medium	
Forest Service Does Not Influence													
Adverse Hatchery-Related Effects	Low			Medium			Low			Low		Low	
Increased Disease/Predation/Competition	Medium			Medium			High			High		High	
Impaired Esturay/Mainstem Function	Very High			Very High			High			High		High	
Adverse Fishery-and Collection-related Effects	Low			Low			Low			Low		Low	
Threats (*italics are from multispecies draft*)													
Climate Change (*Severe Weather Patterns*)	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	High	Medium	High	Medium
Roads (*and railroads)*	Very High	High	High	Very High	High	High	Very High	Medium	High	Very High	Low	Very High	High
Channelization/Diking (*Channel Modification*)	Very High	Very High	Very High	High	High	High	High	High	High	Medium	Low	Low	Medium
Timber Harvest (*Logging and Wood harvest)*	Medium	High	High	Medium	Medium	Medium	High	Medium	Medium	High	Medium	Medium	Medium
High Severity Fire (*Fuel management, suppression)*	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	High	Medium	High	Medium
Invasive Non-Native/Alien Species	Medium			N/A			High			High		High	
Road-Stream Crossing Barriers	Low			Low			Low			Medium		Low	
Livestock Farming and Ranching		Medium	Medium		Medium	Medium		Medium	Medium		Low		Medium
Disease/Predation/Competition		High	High		Medium	Low		High	High		Medium		Medium
Recreational Areas and Activities		Medium	Medium		Medium	Medium		Medium	Medium		Low		Medium
Threat Status for targets and projects		Very High	Very High		High	High		High	High		High		High
Forest Service Does Not Influence													
Agricultural Practices	Medium	Medium	Medium	Medium	Medium	Medium	High	Medium	Medium	Medium	Low	Medium	Medium
Urban/Residential/Industrial Dev	Medium	Medium	Medium	Medium	Medium	Medium	High	Medium	Medium	Medium	Low	Low	Medium
Mining/Gravel Extraction	High	High	High	High	High	High	Medium	Medium	Medium	Medium	Medium	N/A	Medium
Dams/Diverstion	Medium	Medium	High	Medium	Medium	Medium	High	High	High	High	Low	Medium	Medium
Hatcheries	Low	Low	Medium	Medium	Low	High	Low	Low	Low	Low	Low	Low	Low
Fishing and Collectiong	Low	Low	High	Low	Low	Low	Low	Medium	Medium	Low	Low	Low	Low

Co-Manager's MultiSpeices Recovery Play

not applicable to coho

Stresses/threats not identified

Threats from Multi-species - slightly different phrasing/grouping

SONCC Population Name HUC10_Watersheds	HUC12_SubWatersheds	HUC12_Code	Total Acres	Acres on Forest Service land	% USFS lands in Basin	SONCC present on FS lands?	Chinook Species on FS Land?	Steelhead Species on FS lands	WCA Final	Aq Bio	Life Form Pres	Native Sp	Aq Inva	Rip Veg	Rip Veg Cond	Water Quality	Impd Water	Water Quality	Water Quant
Smith River Population		180101010100				SONCC	SOCC	KMP											
North Fork Smith River	Diamond Creek	180101010103	21,295	21,071	99	?	?	?	1.2	1.3	1	1	2	1	1	1	1	1	1
	Lower North Fork Smith	180101010104	35,539	34,681	98	Yes	Yes	Yes	1.3	1.3	1	1	2	1	1	1	1	1	1
Middle Fork Smith River	Siskiyou Fork Smith River	180101010201	17,514	16,940	97	Yes	Yes	Yes	1.4	1.3	1	1	2	2	2	1	1	1	1
	Upper Middle Fork Smith	180101010202	24,184	24,050	99	Yes	Yes	Yes	1.6	1.3	1	1	2	2	2	1	1	1	1
	Patrick Creek	180101010203	14,785	13,696	93	Yes	Yes	Yes	1.7	1.3	1	1	2	2	2	1	1	1	1
	Lower Middle Fork Smith	180101010204	27,307	24,616	90	Yes	Yes	Yes	1.5	1.3	1	1	2	2	2	1	1	1	1
South Fork Smith River	Upper South Fork Smith	180101010301	28,502	28,408	100	Yes	Yes	Yes	1.1	1	1	1	1	1	1	1	1	1	1
	Eightmile Creek	180101010302	15,256	15,256	100	Yes	Yes	Yes	1.1	1	1	1	1	1	1	1	1	1	1
	Jones Creek	180101010303	15,751	14,725	93	No	No	No	1.4	1.3	1	1	2	2	2	1	1	1	1
	Middle South Fork Smith	180101010304	33,120	32,027	97	Yes	Yes	Yes	1.4	1.3	1	1	2	2	2	1	1	1	1
	Hurdygurdy Creek	180101010305	19,138	15,649	82	Yes	Yes	Yes	1.5	1.3	1	1	2	2	2	1	1	1	1
	Goose Creek	180101010306	25,858	20,569	80	Yes	Yes	Yes	2	1.3	1	1	2	2	2	1	1	1	1
	Rock Creek (Smith River)	180101010307	10,300	2,501	24	Yes	Yes	Yes	2.6	1.3	1	1	2	1	1	1	1	1	1
	Craigs Creek	180101010308	11,501	10,911	95	Yes	Yes	Yes	1.5	1.3	1	1	2	2	2	1	1	1	1
	Lower South Fork Smith	180101010309	27,561	26,225	95	Yes	Yes	Yes	1.5	1.3	1	1	2	2	2	1	1	1	1
Lower Smith River	Hardscrabble Creek-Smith	180101010401	17,796	15,259	86	Yes	Yes	Yes	1.4	1.3	1	1	2	1	1	1	1	1	1
	Rowdy Creek	180101010403	21,840	8,424	39	No	No	No	2.4	1.3	1	1	2	2	2	1	1	1	1
	Smith River-Frontal Pacific	180101010404	25,481	1,775	7	No	No	No	2.9	1.3	1	1	2	2	2	1	1	1	1
Lower Klamath River Population		180102090900				SONCC	SOCC	KMP											
Blue Creek	East Fork Blue Creek	180102090901	14,395	14,395	100	Yes	Yes	Yes	1.1	1.3	1	1	2	1	1	1	1	1	1
	Upper Blue Creek	180102090902	10,314	10,314	100	Yes	Yes	Yes	1.1	1.3	1	1	2	1	1	1	1	1	1
	Crescent City Fork	180102090903	14,478	14,478	100	Yes	Yes	Yes	1.2	1.3	1	1	2	1	1	1	1	1	1
	Middle Blue Creek	180102090904	17,795	17,759	100	Yes	Yes	Yes	1.2	1.3	1	1	2	1	1	1	1	1	1
	Lower Blue Creek	180102090905	23,350	7,916	34	Yes	Yes	Yes	2.5	1.3	1	1	2	2	2	2	3	1	1
	Pecwan Creek	180102091004	17,638	3,354	19	Yes	Yes	Yes	2.7	1.3	1	1	2	1	1	2	3	1	1
	Turwar Creek	180102091101	20422.3	1572	8	Yes	?	Yes	2.9	1.3	1	1	2	3	3	2	3	1	1
	Hunter Creek	180102091102	18786.7	1309.1	7	Yes	?	Yes	2.9	1.3	1	2	1	2	2	2	3	1	2
Middle Klamath River Population		180102090500				SONCC	UKTR	KMP											
Dillon Creek	Copper Creek-Dillon Ck	180102090502	25,632	25,347	99	Yes	Yes	Yes	1.8	1.3	1	1	2	3	3	2.5	3	2	1
Oak Flat-Ukonom	Ukonom Creek	180102090603	20,948	20,948	100	Yes	Yes	Yes	1.6	1	1	1	1	3	3	2	3	1	1
	Swillup Creek-Klamath	180102090605	15,168	15,039	99	Yes	Yes	Yes	1.9	1.3	1	2	1	2	2	3	3	3	3
Rock-Ti	Rock Creek	180102090701	21,293	21,271	99	Yes	Yes	Yes	1.7	1	1	1	1	2	2	2	3	1	1
	Ti Creek-Klamath River	180102090702	13,634	13,256	97	Yes	Yes	Yes	1.9	1.7	1	2	2	2	2	2	3	1	2
	Reynolds Creek-Klamath	180102090703	34,637	33,571	97	Yes	Yes	Yes	1.9	1.7	1	2	2	2	2	2	3	1	2
Lower Middle Klamath	Camp Creek	180102090801	26,949	26,381	98	Yes	Yes	Yes	1.4	1	1	1	1	1	1	2	3	1	1
	Boise Creek-Klamath	180102090802	31,367	27,825	89	Yes	Yes	Yes	1.9	1.7	1	2	2	2	2	2	3	1	2
	Red Cap Creek	180102090803	40,363	40,026	99	Yes	Yes	Yes	1.4	1	1	1	1	2	2	2	3	1	1
	Bluff Creek	180102090804	47,465	46,604	98	Yes	Yes	Yes	1.5	1.3	1	1	2	1	1	2	3	1	1
	Slate Creek-Klamath River	180102090805	28,769	19,142	67	Yes	Yes	Yes	1.8	1.7	1	2	2	2	2	2	3	1	2
Salmon River Population		180102100200				SONCC	UKTR	KMP											
North Fork Salmon River	Little North Fork Salmon	180102100206	20,840	20,804	99	Yes	Yes	Yes	1.4	1	1	1	1	1	1	2	3	1	1
Wooley Creek	North Fork Wooley Creek	180102100301	14,087	14,087	100	Yes	Yes	Yes	1.2	1	1	1	1	1	1	2	3	1	1

SONCC Population Name HUC10_Watersheds	HUC12_SubWatersheds	HUC12_Code	Total Acres	Acres on Forest Service land	% USFS lands in Basin	SONCC present on FS lands?	Chinook Species on FS Land?	Steelhead Species on FS lands	WCA Final	Aq Bio	Life Form Pres	Native Sp	Aq Inva	Rip Veg	Rip Veg Cond	Water Quality	Impd Water	Water Quality	Water Quant
	Middle Wooley Creek	180102100304	23,542	23,542	100	Yes	Yes	Yes	1.2	1	1	1	1	1	1	2	3	1	1
	Lower Wooley Creek	180102100305	21,166	21,102	100	Yes	Yes	Yes	1.1	1	1	1	1	1	1	2	3	1	1
Main Salmon	Butler Creek-Salmon	180102100403	23,410	23,235	99	Yes	Yes	Yes	1.3	1	1	1	1	2	2	2	3	1	1
	Somes Creek-Salmon River	180102100404	10,163	10,020	99	Yes	Yes	Yes	1.5	1	1	1	1	2	2	2.5	3	2	1
Lower Trinity River Population		180102111100				SONCC	UKTR	KMP											
Main Trinity River	Sharber Creek-Trinity River	180102111107	19,605	15,303	78	Yes	Yes	Yes	1.9	1.7	1	2	2	2	2	2	3	1	2
Lower Trinity River	Willow Creek	180102111201	27,786	13,694	49	Yes	Yes	Yes	2.4	1.3	1	1	2	2	2	2	3	1	1
	Cedar Creek	180102111202	16,764	16,764	100	Yes	Yes	Yes	1.3	1	1	1	1	1	1	2	3	1	1
	Horse Linto Creek	180102111203	25,320	24,020	95	Yes	Yes	Yes	1.3	1	1	1	1	2	2	2	3	1	1
	Tish Tang A Tang Creek	180102111204	19,137	10,777	56	No	No	No	1.8	2.3	2	3	2	2	2	2	3	1	1
	Campbell Creek-Trinity	180102111206	31,112	13,689	44	Yes	Yes	Yes	2.5	1.7	1	2	2	2	2	2	3	1	2
	Mill Creek	180102111207	30,862	13,829	45	No	No	No	2.5	2.3	2	3	2	2	2	2	3	1	1
South Fork Trinity Population		180102120500				SONCC	UKTR	KMP											
Lower South Fork Trinity River	Grouse Creek	180102120502	36,271	22,306	61	Yes	Yes	Yes	2.3	1.7	2	2	1	2	2	2	3	1	1
	Old Campbell Creek	180102120504	14,860	13,076	88	Yes	Yes	Yes	1.8	1.3	1	2	1	2	2	2	3	1	1
	Mingo Creek-SFTrinity River	180102120505	28,820	25,148	87	Yes	Yes	Yes	1.8	1.3	1	2	1	2	2	2	3	1	1
Redwood Creek Population		180101020100				SONCC	CC	NC											
Redwood Creek	Noisy Creek-Redwood Creek	180101020101	38,593	2,608	7	No	No	No	2.9	1.3	1	2	1	2	2	2	3	1	1
Mad River Population		180101020000				SONCC	CC	NC											
Upper Mad River	Lost Creek-Mad River	180101020201	29,003	28,590	99	No	No	No	1.8	2	2	2	2	2	2	2	3	1	1
	Blue Slide Creek-Mad	180101020202	27,902	25,028	90	No	No	No	1.9	2	2	2	2	2	2	2	3	1	1
	Ruth Lake-Mad River	180101020203	20,263	14,023	69	No	No	No	2.7	3	3	3	3	3	3	2.5	3	2	3
Middle Mad River	Pilot Creek	180101020301	25,448	23,347	92	No	No	Yes	1.5	1	1	1	1	2	2	2	3	1	1
	Bear Creek-Mad River	180101020302	31,056	13,576	44	No	No	Yes	2.7	1.7	1	2	2	3	3	2	3	1	3
	Bug Creek-Mad River	180101020401	32,680	8,247	25	No	No	Yes	2.6	1	1	1	1	1	1	2	3	1	3
Mainstem Eel River Population		180101050000				SONCC	CC	NC											
Dobbyn Creek	North Dobbyn Creek	180101050301	10,873	5,704	52	No	No	Yes	1.8	1	1	1	1	2	2	2	3	1	1
	South Dobbyn Creek	180101050302	25,490	4,930	19	No	No	No	1.9	1	1	1	1	2	2	2	3	1	1
	Conley Creek-Dobbyn Ck	180101050303	11,598	1,416	12	No	No	No	1.9	1	1	1	1	2	2	2	3	1	1
Bell Springs	Kekawaka Creek	180101050402	21,209	1,073	5	No	No	No	2	1	1	1	1	2	2	2	3	1	1
North Fork Eel Population		180101050000				SONCC	CC	NC											
North Fork Eel River	Kettenpom Creek	180101050101	10,145	5,751	57	No	Historic	Yes	1.8	2	2	2	2	2	2	2	3	1	1
	Headwaters North Fork Eel	180101050102	22,951	21,794	95	No	Historic	Yes	1.6	2	2	2	2	2	2	2	3	1	1
	Salt Creek	180101050103	15,612	12,855	82	No	Historic	Yes	1.9	2.7	2	3	3	3	3	2	3	1	1
	Red Mountain Creek	180101050104	12,278	10,731	87	No	Historic	Yes	1.6	2	2	2	2	2	2	2	3	1	1
	Upper North Fork Eel River	180101050105	21,888	18,454	84	No	Historic	Yes	1.8	2.7	2	3	3	2	2	2	3	1	1
	Middle North Fork Eel River	180101050108	24,127	2,379	10	No	Historic	Yes	2	2.7	2	3	3	2	2	2	3	1	1
Lower Eel/Van Duzen Population		180101050700				SONCC	CC	NC											
Upper Van Duzen River	West Fork Van Duzen River	180101050701	15,226	11,789	77	No	No	Rare	1.8	1.7	1	2	2	2	2	2	3	1	1
	Shanty Creek-Van Duzen	180101050702	23,160	18,012	78	No	No	Rare	1.8	1.7	1	2	2	2	2	2	3	1	1
	Mill Creek-Van Duzen River	180101050703	16,300	7,994	49	No	No	Rare	2.5	1.7	1	2	2	2	2	2	3	1	1
Lower Van Duzen River	Little Van Duzen River	180101050902	26,394	9,431	36	No	No	Yes	1.8	1.3	1	2	1	1	1	2	3	1	1

SONCC Population Name HUC10_Watersheds	HUC12_SubWatersheds	HUC12_Code	Total Acres	Acres on Forest Service land	% USFS lands in Basin	Flow Chara	Aq Phys Hab	Habitat Frag	LWD	Chanel Shape	Road Trail	Road Den	Road Mtnce	Prox Water	Mass Wg	FS Lands Score	WCA Final	WCA NonFS Score	Heavy Equipment Proposed in Fish habitat?	Priority_Status
Smith River Population		180101010100																		
North Fork Smith River	Diamond Creek	180101010103	21,295	21,071	99	1	1	1	1	1	1.3	1	2	1	1	**1.2**	1.2	1.2	No	<null>
	Lower North Fork Smith	180101010104	35,539	34,681	98	1	1	1	1	1	1.5	2	1	1	2	**1.3**	1.3	1.3	No	<null>
Middle Fork Smith River	Siskiyou Fork Smith River	180101010201	17,514	16,940	97	1	1.3	1	2	1	1.8	2	2	1	2	**1.4**	1.4	1.4	Yes	<null>
	Upper Middle Fork Smith	180101010202	24,184	24,050	99	1	1.7	1	2	2	2.3	2	3	2	2	**1.6**	1.6	1.6	Yes	<null>
	Patrick Creek	180101010203	14,785	13,696	93	1	2	1	3	2	2.5	3	2	3	2	**1.7**	1.7	1.7	Yes	<null>
	Lower Middle Fork Smith	180101010204	27,307	24,616	90	1	1.7	1	2	2	2	2	2	2	2	**1.5**	1.5	1.5	Yes	<null>
South Fork Smith River	Upper South Fork Smith	180101010301	28,502	28,408	100	1	1.3	1	2	1	1	1	1	1	1	**1.1**	1.1	n/a	Yes	<null>
	Eightmile Creek	180101010302	15,256	15,256	100	1	1	1	1	1	1	1	1	1	1	**1.1**	1.1	n/a	No	<null>
	Jones Creek	180101010303	15,751	14,725	93	1	1.3	1	2	1	1.5	2	1	1	2	**1.4**	1.4	1.4	Yes	<null>
	Middle South Fork Smith	180101010304	33,120	32,027	97	1	2	1	3	2	1.5	2	1	1	2	**1.4**	1.4	1.4	Yes	<null>
	Hurdygurdy Creek	180101010305	19,138	15,649	82	1	2	1	3	2	1.8	2	1	2	2	**1.5**	1.5	1.5	Yes	<null>
	Goose Creek	180101010306	25,858	20,569	80	1	2	1	3	2	2.8	3	3	2	3	**1.7**	2	3	Yes	<null>
	Rock Creek (Smith River)	180101010307	10,300	2,501	24	1	2.3	2	3	2	2	2	2	2	2	**1.4**	2.6	3	Yes	<null>
	Craigs Creek	180101010308	11,501	10,911	95	1	1.3	1	2	1	1.5	2	1	1	2	**1.4**	1.5	3	Yes	<null>
	Lower South Fork Smith	180101010309	27,561	26,225	95	1	2	2	3	1	2	2	2	2	2	**1.5**	1.5	1.5	Yes	<null>
Lower Smith River	Hardscrabble Creek-Smith	180101010401	17,796	15,259	86	1	1.7	1	2	2	2.3	3	2	2	2	**1.4**	1.4	1.4	Yes	<null>
	Rowdy Creek	180101010403	21,840	8,424	39	1	2	1	3	2	2	2	3	1	2	**1.5**	2.4	3	Yes	<null>
	Smith River-Frontal Pacific	180101010404	25,481	1,775	7	1	1.7	1	2	2	1	1	1	1	1	**1.4**	2.9	3	No	<null>
Lower Klamath River Population		180102090900																		
Blue Creek	East Fork Blue Creek	180102090901	14,395	14,395	100	1	1	1	1	1	1	1	1	1	1	**1.1**	1.1	n/a	No	<null>
	Upper Blue Creek	180102090902	10,314	10,314	100	1	1	1	1	1	1	1	1	1	1	**1.1**	1.1	n/a	No	<null>
	Crescent City Fork	180102090903	14,478	14,478	100	1	1	1	1	1	1.5	2	1	1	2	**1.2**	1.2	n/a	No	<null>
	Middle Blue Creek	180102090904	17,795	17,759	100	1	1	1	1	1	1.3	1	2	1	1	**1.2**	1.2	n/a	No	<null>
	Lower Blue Creek	180102090905	23,350	7,916	34	1	1	1	1	1	1.3	1	1	1	2	**1.4**	2.5	3	No	<null>
	Pecwan Creek	180102091004	17,638	3,354	19	1	1.7	1	2	2	1.5	2	1	1	2	**1.4**	2.7	3	No	<null>
	Turwar Creek	180102091101	20422.3	1572	8	1	1.7	1	2	2	2.3	3	1	2	3	1.8	2.9	3	No	<null>
	Hunter Creek	180102091102	18786.7	1309.1	7	2	1	1	1	1	2	2	2	2	2	1.7	2.9	3	No	<null>
Middle Klamath River Population		180102090500																		
Dillon Creek	Copper Creek-Dillon Ck	180102090502	25,632	25,347	99	1	1	1	1	1	1.8	1	3	1	2	**1.8**	1.8	1.8	No	<null>
Oak Flat-Ukonom	Ukonom Creek	180102090603	20,948	20,948	100	1	1.7	1	2	2	1	1	1	1	1	**1.6**	1.6	n/a	No	<null>
	Swillup Creek-Klamath	180102090605	15,168	15,039	99	3	2	1	2	3	1.5	2	1	1	2	**1.9**	1.9	3	No	<null>
Rock-Ti	Rock Creek	180102090701	21,293	21,271	99	1	2	2	2	2	2.5	3	2	2	3	**1.7**	1.7	1.8	No	<null>
	Ti Creek-Klamath River	180102090702	13,634	13,256	97	2	2	2	2	2	3	3	3	3	3	**1.9**	1.9	1.9	Yes	<null>
	Reynolds Creek-Klamath	180102090703	34,637	33,571	97	2	2	2	2	2	2.5	3	2	2	3	**1.9**	1.9	1.9	Yes	<null>
Lower Middle Klamath	Camp Creek	180102090801	26,949	26,381	98	1	1	1	1	1	2.3	3	2	1	3	**1.4**	1.4	1.4	Yes	<null>
	Boise Creek-Klamath	180102090802	31,367	27,825	89	2	2	2	2	2	2.3	2	2	2	3	**1.9**	1.9	1.9	Yes	<null>
	Red Cap Creek	180102090803	40,363	40,026	99	1	1	1	1	1	1.8	2	2	1	2	**1.4**	1.4	1.4	Yes	<null>
	Bluff Creek	180102090804	47,465	46,604	98	1	1.7	1	2	2	2	3	1	1	3	**1.5**	1.5	1.5	Yes	2012
	Slate Creek-Klamath River	180102090805	28,769	19,142	67	2	2	2	2	2	1.5	2	1	1	2	**1.7**	1.8	2	Yes	<null>
Salmon River Population		180102100200																		
North Fork Salmon River	Little North Fork Salmon	180102100206	20,840	20,804	99	1	1.3	1	2	1	1	1	1	1	1	**1.4**	1.4	2	No	<null>
Wooley Creek	North Fork Wooley Creek	180102100301	14,087	14,087	100	1	1	1	1	1	1	1	1	1	1	**1.2**	1.2	n/a	No	<null>

SONCC Population Name HUC10_Watersheds	HUC12_SubWatersheds	HUC12_Code	Total Acres	Acres on Forest Service land	% USFS lands in Basin	Flow Chara	Aq Phys Hab	Habitat Frag	LWD	Chanel Shape	Road Trail	Road Den	Road Mtnce	Prox Water	Mass Wg	FS Lands Score	WCA Final	WCA NonFS Score	Heavy Equipment Proposed in Fish habitat?	Priority_Status
	Middle Wooley Creek	180102100304	23,542	23,542	100	1	1	1	1	1	1	1	1	1	1	**1.2**	1.2	n/a	No	<null>
	Lower Wooley Creek	180102100305	21,166	21,102	100	1	1	1	1	1	1	1	1	1	1	**1.1**	1.1	1.1	No	<null>
Main Salmon	Butler Creek-Salmon	180102100403	23,410	23,235	99	1	1	1	1	1	1	1	1	1	1	**1.3**	1.3	1.3	Yes	<null>
	Somes Creek-Salmon River	180102100404	10,163	10,020	99	1	1	1	1	1	1.5	1	2	1	2	**1.5**	1.5	1.5	Yes	<null>
Lower Trinity River Population		180102111100																		
Main Trinity River	Sharber Creek-Trinity River	180102111107	19,605	15,303	78	2	2	2	2	2	2.3	3	2	2	2	**1.9**	1.9	1.9	Yes	<null>
Lower Trinity River	Willow Creek	180102111201	27,786	13,694	49	1	1.7	1	2	2	2.5	3	2	2	3	**1.7**	2.4	3	Yes	<null>
	Cedar Creek	180102111202	16,764	16,764	100	1	1	1	1	1	2	3	1	2	2	**1.3**	1.3	n/a	Yes	<null>
	Horse Linto Creek	180102111203	25,320	24,020	95	1	1	1	1	1	1	1	1	1	1	**1.3**	1.3	1.3	Yes	<null>
	Tish Tang A Tang Creek	180102111204	19,137	10,777	56	1	2	1	3	2	1.5	2	1	2	1	**1.8**	1.8	1.8	No	<null>
	Campbell Creek-Trinity	180102111206	31,112	13,689	44	2	2	2	2	2	1.8	2	1	2	2	**1.8**	2.5	3	No	<null>
	Mill Creek	180102111207	30,862	13,829	45	1	2	1	2	3	1.8	3	2	1	1	**1.8**	2.5	3	No	<null>
South Fork Trinity Population		180102120500																		
Lower South Fork Trinity River	Grouse Creek	180102120502	36,271	22,306	61	1	2.7	2	3	3	2.3	2	2	2	3	**1.8**	2.3	3	No	<null>
	Old Campbell Creek	180102120504	14,860	13,076	88	1	2	1	3	2	1.8	2	2	1	2	**1.6**	1.8	3	No	<null>
	Mingo Creek-SFTrinity River	180102120505	28,820	25,148	87	1	2	2	2	2	2.5	3	2	2	3	**1.8**	1.8	1.8	Yes	<null>
Redwood Creek Population		180101020100																		
Redwood Creek	Noisy Creek-Redwood Creek	180101020101	38,593	2,608	7	1	1.7	1	2	2	2.3	3	1	2	3	**1.7**	2.9	3	No	<null>
Mad River Population		180101020000																		
Upper Mad River	Lost Creek-Mad River	180101020201	29,003	28,590	99	1	2	2	2	2	2	3	1	1	3	**1.8**	1.8	1.8	No	2012
	Blue Slide Creek-Mad	180101020202	27,902	25,028	90	1	2	2	2	2	2.8	3	2	3	3	**1.9**	1.9	2	No	2012
	Ruth Lake-Mad River	180101020203	20,263	14,023	69	3	3	3	3	3	2.3	2	2	2	3	**2.5**	2.7	3	Yes - Resident	<null>
Middle Mad River	Pilot Creek	180101020301	25,448	23,347	92	1	1	1	1	1	2	3	1	1	3	**1.5**	1.5	1.5	No	<null>
	Bear Creek-Mad River	180101020302	31,056	13,576	44	3	2	2	2	2	2.5	3	2	2	3	**2.2**	2.7	3	No	<null>
	Bug Creek-Mad River	180101020401	32,680	8,247	25	3	1	1	1	1	1.5	2	1	1	2	**1.5**	2.6	3	No	<null>
Mainstem Eel River Population		180101050000																		
Dobbyn Creek	North Dobbyn Creek	180101050301	10,873	5,704	52	1	1	1	1	1	2.5	3	2	2	3	**1.6**	1.8	2	No	<null>
	South Dobbyn Creek	180101050302	25,490	4,930	19	1	1	1	1	1	2.8	3	2	3	3	**1.6**	1.9	2	No	<null>
	Conley Creek-Dobbyn Ck	180101050303	11,598	1,416	12	1	1.7	1	2	2	1.5	2	1	1	2	**1.5**	1.9	2	No	<null>
Bell Springs	Kekawaka Creek	180101050402	21,209	1,073	5	1	1	1	1	1	1.5	2	1	1	2	**1.4**	2	2	No	<null>
North Fork Eel Population		180101050000																		
North Fork Eel River	Kettenpom Creek	180101050101	10,145	5,751	57	1	1.7	1	2	2	2	2	2	2	2	**1.7**	1.8	2	No	<null>
	Headwaters North Fork Eel	180101050102	22,951	21,794	95	1	1	1	1	1	1.8	3	1	1	2	**1.6**	1.6	1.6	No	<null>
	Salt Creek	180101050103	15,612	12,855	82	1	2	2	2	2	1.3	2	1	1	1	**1.9**	1.9	2	No	<null>
	Red Mountain Creek	180101050104	12,278	10,731	87	1	1.7	1	2	2	1.3	1	1	1	2	**1.6**	1.6	1.7	No	<null>
	Upper North Fork Eel River	180101050105	21,888	18,454	84	1	2	2	2	2	1.5	2	1	1	2	**1.8**	1.8	2	No	<null>
	Middle North Fork Eel River	180101050108	24,127	2,379	10	1	2	2	2	2	1	1	1	1	1	**1.7**	2	2	No	<null>
Lower Eel/Van Duzen Population		180101050700																		
Upper Van Duzen River	West Fork Van Duzen River	180101050701	15,226	11,789	77	1	1.7	1	2	2	2.5	3	2	2	3	**1.8**	1.8	1.8	No	<null>
	Shanty Creek-Van Duzen	180101050702	23,160	18,012	78	1	2	2	2	2	2.8	3	2	3	3	**1.8**	1.8	2	Yes	<null>
	Mill Creek-Van Duzen River	180101050703	16,300	7,994	49	1	2	2	2	2	2.8	3	2	3	3	**1.9**	2.5	3	Yes	<null>
Lower Van Duzen River	Little Van Duzen River	180101050902	26,394	9,431	36	1	1	1	1	1	2.3	2	3	2	2	**1.4**	1.8	2	No	<null>

Watershed Condition Framework	NMFS Matrix	Smith River	Klamath River	Salmon River	Trinity River	Mad River	Mad River (Below Matthews)	Van Duzen River	North Fork Eel River	Mainstem Eel River
Total Acres		392,708	428,234	92,342	250,537	166,352	89,184	81,080	107,001	69,170
FS Only	**Pathways**	1.5	1.5	1.3	1.7	1.5	1.7	1.7	1.7	1.5
w/ Private	Indicators	1.7	1.8	1.3	2.0	1.7	2.3	2.0	1.8	1.9
1_1_Impared Waters	N/A	1.0	2.6	3.0	3.0	2.4	3.0	3.0	3.0	3.0
1_2_Water Quality Problems	**Water Quality** - turbidty, chemical, sediment	1.0	1.1	1.2	1.0	1.1	1.0	1.0	1.0	1.0
2_1_Flow Characteristics	**Flow/ Hydrology**	1.0	1.3	1.0	1.2	1.1	2.3	1.0	1.0	1.0
3_1_Habitat Fragmentation	**Habitat Access**	1.1	1.3	1.0	1.4	1.2	1.3	1.5	1.5	1.0
3_2_Large Woody Debris	**Habitat Elements** - Large Wood	2.2	1.5	1.0	2.1	1.7	1.3	1.8	1.8	1.3
3_3_Channel Shape and Function	**Dynamics** - width to depth, streambanks, floodplains	1.6	1.4	1.0	2.0	1.5	1.3	1.8	1.8	1.3
4_1_Life Form Presence	N/A	1.9	1.0	1.0	1.3	1.3	1.0	1.0	2.0	1.0
4_2_Native Species	N/A	1.6	1.3	1.0	1.9	1.4	1.3	2.0	2.5	1.0
4_3_Exotic and or Invasive Species	**Watershed Condition** - Disturbance Regime	1.9	1.7	1.0	1.5	1.5	1.3	1.8	2.5	1.0
5_1_Vegetation Condition	**Watershed Condition** - Vegetation Condition	1.7	1.8	1.4	1.9	1.7	2.0	1.8	2.2	2.0
6_1_Open Road Density	**Watershed Condition** - Road Density & Location	1.9	2.0	1.0	2.4	1.8	2.7	2.8	1.8	2.5
6_2_Road Maintenance	**Watershed Condition** - Road Density & Location	1.7	1.6	1.2	1.6	1.5	1.3	2.3	1.2	1.5
6_3_Proximity to Water	**Watershed Condition** - Road Density & Location	1.5	1.4	1.0	1.7	1.4	1.3	2.5	1.2	1.8
6_4_Mass Wasting	**Watershed Condition** - Disturbance Regime	1.8	2.2	1.2	2.0	1.8	2.7	2.8	1.7	2.5
7_1_Soil Productivity	**Watershed Condition** - Disturbance Regime	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7_2_Soil Erosion	**Watershed Condition** - Disturbance Regime	1.0	1.1	1.2	1.0	1.1	1.0	1.0	1.0	1.0
7_3_Soil Contamination	**Watershed Condition** - Disturbance Regime	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8_1_Fire Condition Class	**Watershed Condition** - Disturbance Regime	2.9	2.4	2.0	2.7	2.5	3.0	3.0	2.8	3.0
9_1_Loss of Forest Cover	**Watershed Condition** - Disturbance Regime	1.2	1.4	1.8	1.6	1.5	1.0	1.0	1.0	1.0
10_1_Range Vegetation Condition	**Watershed Condition** - Disturbance Regime	n/a	1.0	1.0	1.9	1.3	2.0	2.0	1.7	2.0