Stream Monitoring Report — Gualala-Salmon Assessment Area — 229,990 Total Acres

Station		Year		Temperature		LWD Bank Full (> 6 " > 4 ' or > 10 CuFt)		Substrate	Streambed			Riparian Zone			Fish per Mile		Macroinvertebrates		
				Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness / Simpson	Hilsenhoff / Russian R Index	% Dominant
Hydrologic Unit				NF Gualala																	
Planning Watershed				Billings Creek															1113.810004		
Stream		**Bear Creek**																			
693		2009		17.1	15.1																
			Avg	**17.1**	**15.1**																
Stream		**Billings Cr**																			
698	Bil	2004		25.2	21.6																
698	Bil	2009		26.0	20.8																
			Avg	**25.6**	**21.2**																
Stream		**Robinson Cr East**																			
692	Rbn2	2004		20.6	17.9																
692	Rbn2	2009		21.0	18.2	153	8		44	1.64%	65		73%	77%							
697	Rbn1	2004				622	7		26	0.59%	23										
697	Rbn1	2009		23.0	18.7	690	11		33	0.61%	35	-0.4									
			Avg	**21.5**	**18.3**	**488**	**9**			**0.95%**	**41**	**-0.4**	**73%**	**77%**							
Billings Creek			**Avg**	**22.1**	**18.7**	**488**	**9**		**34**	**0.95%**	**41**	**-0.4**	**73%**	**77%**							
			Min	**17.1**	**15.1**	**153**	**7**		**26**	**0.59%**	**23**	**-0.4**	**73%**	**77%**							
			Max	**26.0**	**21.6**	**690**	**11**		**44**	**1.64%**	**65**	**-0.4**	**73%**	**77%**							
Planning Watershed				Doty Creek															1113.810003		
Stream		**Doty Creek**																			
256	Dot2	1993						16.2%													
256	Dot2	1994		14.1	12.9			11.4%													
256	Dot2	1995						16.9%													
256	Dot2	1996						16.9%													
256	Dot2	1997						17.0%													

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates		
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
281	Dot1	1998	14.8	13.7															
281	Dot1	2008	14.5	13.4															
		Avg	**14.5**	**13.3**			**15.7%**												
Stream		**Little North Fork Gualala**																	
201	LNF5	1992					10.9%												
201	LNF5	1993					21.0%												
201	LNF5	1994	15.8	14.7			20.4%												
201	LNF5	1995	16.7	15.1			20.8%												
201	LNF5	1996	15.9	14.6			15.4%												
201	LNF5	1997	16.7	15.4			16.0%												
201	LNF5	1998	16.3	15.0															
201	LNF5	2001	16.5	14.8															
201	LNF5	2003	16.1	15.0															
201	LNF5	2004	16.9	15.7															
201	LNF5	2005	15.6	14.5															
201	LNF5	2008	16.4	15.2															
201	LNF5	2009	15.8	14.8															
201	LNF5	2010	15.0	13.7															
201	LNF5	2011	15.1	14.0															
202	LNF2	1993					11.5%												
202	LNF2	1994	16.4	14.6			14.6%												
202	LNF2	1995					18.8%												
202	LNF2	1996					17.2%												
202	LNF2	1997					21.6%												
202	LNF2	1998														32			
202	LNF2	2003														0	322		
202	LNF2	2004														0	391		

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates				
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson		% Dominant Russian R Index	
203	LNF1	1993					17.1%														
203	LNF1	1994	15.1	13.6			20.4%														
203	LNF1	1995	15.8	14.2			11.6%														
203	LNF1	1996	15.3	13.7			19.6%														
203	LNF1	1997	15.8	14.5			18.8%														
203	LNF1	1998	15.2	13.9	3,010	65		25	1.54%	23						0					
203	LNF1	1999	15.1	13.8	3,632	73		43	1.52%	21	-0.2	87%	89%	298	100	0	285				
203	LNF1	2000	15.3	13.9	3,766	71		46	1.49%	21	-0.08					0	143	31	0.85	4.5	19	30
203	LNF1	2001	15.2	13.5	4,798	119		42	1.49%	20	-0.1					0	148					
203	LNF1	2002	14.5	13.0	4,964	138		65	1.41%	28	-0.3					0	169					
203	LNF1	2003	15.2	14.0	4,946	140		60	1.42%	30	-0.4					0	235					
203	LNF1	2004	15.6	14.2	4,907	139		42	1.54%	32	-0.7					0	666					
203	LNF1	2005	14.9	13.6	5,073	137		40	1.35%	31	-0.9							30		4.6		41
203	LNF1	2006			5,383	134		36	1.46%	28	-1.1											
203	LNF1	2007			5,391	132		31	1.49%	31	-0.4											
203	LNF1	2008	15.3	13.9	5,851	148		23	1.43%	34	-0.7	86%	88%	391	83		58					
203	LNF1	2009	15.1	13.7	5,957	149		48	1.45%	34	-0.7	89%	91%			0	803					
203	LNF1	2010	14.5	13.1	5,943	146		42	1.45%	33	-0.6											
203	LNF1	2011	14.6	13.4	5,871	148		43	1.44%	41	-0.5	77%	89%			0	433					
255	LNF6	1993					19.4%														
255	LNF6	1994	15.9	14.3			17.2%														
255	LNF6	1995					11.9%														
255	LNF6	1996					24.4%														
255	LNF6	1997					27.8%														
274	LNF8	1995	16.4	14.6																	
274	LNF8	1996	16.1	14.1																	
404	LNF3	1997																			
404	LNF3	1998														16					
404	LNF3	2001			5,250	83		34	0.57%	33		97%	96%	163	75							
404	LNF3	2003														0	589					
404	LNF3	2004			5,098	68		33	0.79%	57	-0.6					0	70					
408	LNF7	2005	14.9	13.7																	
		Avg	**15.6**	**14.2**	**4,990**	**118**	**17.8%**		**1.37%**	**31**	**-0.5**	**87%**	**91%**	**284**	**86**	**3**	**332**	**30**	**0.85**	**4.5**	**19**	**35**
Doty Creek		**Avg**	**15.5**	**14.2**	**4,990**	**118**	**17.6%**	**41**	**1.37%**	**31**	**-0.5**	**87%**	**91%**	**284**	**86**	**3**	**332**	**30**	**0.85**	**4.5**	**19**	**35**
		Min	**14.1**	**12.9**	**3,010**	**65**	**4.5%**	**23**	**0.57%**	**20**	**-1.1**	**77%**	**88%**	**163**	**75**	**0**	**58**	**30**	**0.85**	**4.5**	**5,340**	**30**
		Max	**16.9**	**15.7**	**5,957**	**149**	**36.1%**	**65**	**1.54%**	**57**	**-0.08**	**97%**	**96%**	**391**	**100**	**32**	**803**	**31**	**0.85**	**4.6**	**19**	**41**

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates				
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson		% Dominant Russian R Index	
Planning Watershed			Robinson Creek						1113.810002												
Stream		**Abieta Springs**																			
752		2009	17.9	16.6																	
		Avg	**17.9**	**16.6**																	
Stream		**Dry Creek**																			
211	Dry3	1995	17.7	15.7			16.8%														
211	Dry3	1996	17.7	15.9			14.7%														
211	Dry3	1997	16.9	15.2			11.6%														
211	Dry3	1998			3,148	57		48	0.76%	22						16					
211	Dry3	1999			2,815	53		58	0.72%	20	-0.1	86%	87%	210	89	0	148				
211	Dry3	2000	16.5	14.8	2,834	49		60	0.74%	21	-0.07	84%	77%			0	48	32	0.79	4.4	16	40
211	Dry3	2001	16.4	14.1	5,375	85		56	0.69%	19	-0.1					0	127				
211	Dry3	2002	15.6	14.0	6,311	95		62	0.70%	17	-0.4					11	143				
211	Dry3	2003	16.1	14.9	7,238	93		43	0.74%	22	-0.3					0	174				
211	Dry3	2004	14.8	13.7	7,142	98		38	0.77%	29	-0.3					23	175				
211	Dry3	2005	16.4	15.0	7,109	97		36	0.75%	29	-0.2										
211	Dry3	2006			7,066	91		29	0.80%	21	0.52										
211	Dry3	2007			6,993	97		26	0.78%	20	0.54										
211	Dry3	2008	14.9	13.8	7,230	111		21	0.84%	21	0.42	93%	82%								
211	Dry3	2009	15.2	13.7	7,253	114		31	0.86%	23	0.42	88%	79%			0	407				
211	Dry3	2010	15.4	14.1	7,334	114		30	0.86%	21	0.56										
211	Dry3	2011	15.0	13.8	7,305	115		30	0.90%	21	0.39	89%	80%			0	63				
212	Dry2	1995	20.9	17.9																	
212	Dry2	1996	20.7	17.8																	
212	Dry2	1997	20.5	17.9																	
212	Dry2	1998	20.6	17.6																	
212	Dry2	2000			2,477	37			1.82%	13		76%	56%	81	60			41	0.92	4.5	22	19
212	Dry2	2004														0	500				
212	Dry2	2005	17.9	16.1																	
212	Dry2	2008	16.8	15.9	2,185	28		36	1.89%	14	-0.4	87%	85%								
212	Dry2	2009	16.8	15.7																	
212	Dry2	2011	16.7	15.3																	
753		2009	16.5	15.7																	

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates				
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson		% Dominant Russian R Index	
		Avg	17.1	15.4	5,613	83	14.2%		0.91%	21	0.07	86%	78%	146	75	5	198	37	0.86	4.5	19	30
Stream		**McGann Gulch**																			
209	MGG2	1995	16.7	15.9			19.2%														
209	MGG2	1996	16.4	15.6			26.8%														
209	MGG2	1997	15.5	14.4			19.9%														
209	MGG2	2003														0	104				
210	MGG1	1995	20.4	16.4																	
210	MGG1	2002	14.2	13.9																	
210	MGG1	2003	14.8	14.6																	
210	MGG1	2004	14.9	14.5																	
210	MGG1	2008	14.1	13.5																	
210	MGG1	2011	13.9	13.8																	
		Avg	15.6	14.7			22.0%									0	104				
Stream		**North Fork Gualala**																			
204	NFG3	1995	20.6	17.5																	
204	NFG3	1996	20.1	18.7																	
204	NFG3	1997	19.4	18.2																	
204	NFG3	1998	20.2	17.7												0					
204	NFG3	1999			2,326	46		19	0.37%	23		64%	46%	140	73	0	109				
204	NFG3	2000	19.9	17.0												0	698				
204	NFG3	2001	18.6	16.7	2,922	97		24	0.38%	26	-0.4					0	84				
204	NFG3	2002														0	317				
204	NFG3	2003														0	255				
204	NFG3	2007			3,174	57		15													
204	NFG3	2008	16.8	15.5	2,981	60		28	0.33%	31	-1	80%	69%				79				
204	NFG3	2009	17.7	15.9												0	1,484				
204	NFG3	2010	17.4	15.9																	
204	NFG3	2011	17.1	15.6																	
205	NFG	1995	21.4	17.7																	
205	NFG	1996	20.4	17.8																	
205	NFG	1997	21.1	18.1																	
205	NFG	2001	19.3	17.0																	

Station		Year	Temperature		LWD Bank Full (> 6 " > 4 ' or > 10 CuFt)			Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates		
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness / Simpson	Hilsenhoff / Russian R Index	% Dominant
251	NFG	1996	19.0	16.6																
251	NFG	1997	19.3	17.5																
251	NFG	2000	19.0	16.4																
258	NFG	1994	24.5	19.3																
258	NFG	2011	18.7	16.3																
406	NFG2	1997																		
406	NFG2	1998	21.4	18.6																
406	NFG2	2004														0	303			
473	NFG4	2001	19.3	16.6	2,518	64		26	0.26%	28		93%	84%	148	72					
473	NFG4	2003														0	291			
473	NFG4	2009	17.9	15.7																
474	NFG	2001	22.4	18.4																
474	NFG	2002	20.9	18.7																
474	NFG	2003	22.1	19.3																
474	NFG	2004	20.5	18.8																
474	NFG	2008	21.7	18.4																
474	NFG	2010	20.3	17.6																
474	NFG	2011	20.8	17.9																
		Avg	**19.9**	**17.4**	**2,784**	**65**			**0.34%**	**27**	**-0.7**	**79%**	**66%**	**144**	**72**	**0**	**402**			
Stream		**Peaches Creek**																		
213	Pea2	1995	17.0	16.0																
213	Pea2	1996	17.3	16.1																
213	Pea2	1997	17.8	16.4																
269	Pea3	1994	16.2	15.7																
269	Pea3	1998	17.5	16.0																
269	Pea3	2008	16.8	15.5																
269	Pea3	2009	16.2	15.2																
		Avg	**17.0**	**15.9**																

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates		
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
Stream		**Robinson Cr West**																	
207	Rob2	1995	19.6	15.8			15.2%												
207	Rob2	1996	19.6	15.7			18.1%												
207	Rob2	1997	20.2	16.2			17.9%												
207	Rob2	1998	18.5	15.4												12			
207	Rob2	1999			1,643	49		36	1.39%	13		66%	74%	246	95	0	113		
207	Rob2	2000	17.2	14.7												0	422		
207	Rob2	2001														0	13		
207	Rob2	2003														0	100		
207	Rob2	2004															361		
207	Rob2	2005	14.8	14.1															
207	Rob2	2008	15.8	14.6													21		
207	Rob2	2009	15.6	14.5															
207	Rob2	2010	14.7	13.6															
207	Rob2	2011	15.1	14.0	1,713	48		22	1.31%	25	-0.3	88%	72%						
208	Rob1	1995	16.6	14.9															
208	Rob1	1996	16.4	15.0															
208	Rob1	1997	16.7	14.9															
208	Rob1	1998	16.2	14.9															
208	Rob1	2003														0	76		
260	Rob	1994	14.6	13.8															
263	Rob	1994	17.7	15.5															
263	Rob	2003														0	101		
263	Rob	2004														0	317		
263	Rob	2011	14.9	14.0															
409	Rob	2005	16.0	14.6															
		Avg	**16.7**	**14.8**	**1,678**	**49**	**17.1%**		**1.35%**	**19**	**-0.3**	**77%**	**73%**	**246**	**95**	**1**	**169**		
Stream		**Sosueme Cr**																	
206	Sosu	1995	20.4	14.2															
206	Sosu	1996	16.9	14.2															
206	Sosu	1997	16.4	13.8															
206	Sosu	1998	16.5	14.4															
206	Sosu	2000	18.0	14.0															

Station	Year		Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt			Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates				
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson		% Dominant Russian R Index	
		Avg	17.6	14.1																		
Robinson Creek		Avg	17.8	15.8	4,656	76	17.8%	35	0.85%	22	-0.05	83%	74%	165	78	2	251	37	0.86	4.5	19	30
		Min	13.9	13.5	1,643	28	8.0%	15	0.26%	13	-1	64%	46%	81	60	0	13	32	0.79	4.4	1,528	19
		Max	24.5	19.3	7,334	115	48.3%	62	1.89%	31	0.56	93%	87%	246	95	23	1,484	41	0.92	4.5	22	40

Planning Watershed Stewart Creek 1113.810001

Stream Lost Creek

215	LCr	1995		16.4	15.3																	
215	LCr	1996		15.8	15.1																	
215	LCr	1998		17.0	15.9																	
		Avg		16.4	15.4																	

Stream North Fork Gualala

214	NFG	1995		23.9	21.0																	
214	NFG	1996		23.7	21.1																	
214	NFG	1997		24.0	21.2																	
214	NFG	1998		24.3	21.4																	
214	NFG	2004														0	1,081					
216	NFG1	1995		25.9	21.5																	
216	NFG1	1996		26.4	21.8																	
216	NFG1	1997		26.9	22.0																	
216	NFG1	2003														0	236					
272	NFG	1994		24.5	21.4																	
272	NFG	2001		24.1	21.0																	
272	NFG	2009		22.9	19.2																	
691	NFG5	2004		24.4	21.0																	
691	NFG5	2009		23.2	19.5	227	4		20	0.32%	43		50%	43%								
		Avg		24.5	21.0	227	4			0.32%	43		50%	43%		0	659					
Stewart Creek		Avg		22.9	19.9	227	4		20	0.32%	43		50%	43%		0	659					
		Min		15.8	15.1	227	4		20	0.32%	43		50%	43%		0	236					
		Max		26.9	22.0	227	4		20	0.32%	43		50%	43%		0	1,081					

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt			Substrate	Streambed		Riparian Zone				Fish per Mile		Macroinvertebrates		
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
Hydrologic Unit			Rockpile																
Planning Watershed			Lower Rockpile Creek						1113.820003										
Stream		**Dynamite Cr.**																	
478	Dyn1	2002		14.8	13.4														
478	Dyn1	2009		13.7	13.2														
		Avg		**14.3**	**13.3**														
Stream		**Emily Creek**																	
276	Emy	1997		15.2	14.1														
276	Emy	1998		15.0	13.9														
276	Emy	2002		14.3	13.3														
		Avg		**14.8**	**13.8**														
Stream		**Rockpile Creek**																	
221	Roc3	1995		23.1	19.6														
221	Roc3	1996		22.4	19.3														
221	Roc3	1997		22.4	19.7														
221	Roc3	1998		23.2	19.8	1,291	18	25	0.27%	17						0	677			
221	Roc3	1999				2,514	31	31	0.31%	10	-0.2	90%	37%	272	90	0	11			
221	Roc3	2000		22.7	18.8											0	169			
221	Roc3	2001		21.5	18.4											0	53			
221	Roc3	2002		22.7	17.5											0	48			
221	Roc3	2003		21.7	19.0	2,382	27	19	0.27%	13	-0.4					0	67			
221	Roc3	2004		21.7	18.6											0	20			
221	Roc3	2008		20.1	18.1												11			
221	Roc3	2009		20.6	17.3											0	1,552			
221	Roc3	2010																		
221	Roc3	2011		19.8	17.5															
222	Roc	1994		21.9	19.4															
222	Roc	1995		23.5	19.7															
222	Roc	1997		22.4	19.8															

Station		Year		Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt			Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates		
				Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
275	Roc2	1997		20.1	19.5																
275	Roc2	1998		23.9	20.2												0	508			
275	Roc2	2004		20.2	18.7																
275	Roc2	2005		19.0	17.7																
401	Roc1	1998		23.7	20.8																
401	Roc1	2005																	26	2.9	29
401	Roc1	2006				5,416	56		24	0.16%	29		99%	58%	478	86					
401	Roc1	2008		20.6	19.1																
401	Roc1	2009		19.8	17.8																
			Avg	**21.7**	**18.9**	**2,901**	**33**			**0.25%**	**17**	**-0.3**	**95%**	**48%**	**375**	**88**	**0**	**312**	**26**	**2.9**	**29**
Lower Rockpile Creek			**Avg**	**20.5**	**18.0**	**2,901**	**33**		**25**	**0.25%**	**17**	**-0.3**	**95%**	**48%**	**375**	**88**	**0**	**312**	**26**	**2.9**	**29**
			Min	**13.7**	**13.2**	**1,291**	**18**		**19**	**0.16%**	**10**	**-0.4**	**90%**	**37%**	**272**	**86**	**0**	**11**	**26**	**2.9**	**29**
			Max	**23.9**	**20.8**	**5,416**	**56**		**31**	**0.31%**	**29**	**-0.2**	**99%**	**58%**	**478**	**90**	**0**	**1,552**	**26**	**2.9**	**29**

Planning Watershed Middle Rockpile Creek 1113.820001

Stream Horsethief Canyon

681	Hor1	2004		17.5	17.0																
681	Hor1	2009		16.4	15.9																
			Avg	**16.9**	**16.4**																

Stream Rockpile Creek

680	Roc	2004		24.8	21.2																
680	Roc	2009		23.6	19.5																
683	Roc5	2004		24.0	20.6																
683	Roc5	2009		23.2	19.1																
			Avg	**23.9**	**20.1**																
Middle Rockpile Creek			**Avg**	**21.6**	**18.9**																
			Min	**16.4**	**15.9**																
			Max	**24.8**	**21.2**																

Planning Watershed Red Rock 1113.820002

Stream Red Rock Creek

678		2009		15.6	15.1																

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates		
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
		Avg	15.6	15.1															
Stream		**Rockpile Creek**																	
701	Roc4	2005															26	3.0	39
701	Roc4	2006			2,961	36	34	0.24%	52		83%	60%	265	67					
701	Roc4	2008	21.3	19.5															
701	Roc4	2009	21.3	18.6															
		Avg	**21.3**	**19.0**	**2,961**	**36**		**0.24%**	**52**		**83%**	**60%**	**265**	**67**			**26**	**3.0**	**39**
Red Rock		**Avg**	**19.4**	**17.7**	**2,961**	**36**	**34**	**0.24%**	**52**		**83%**	**60%**	**265**	**67**			**26**	**3.0**	**39**
		Min	**15.6**	**15.1**	**2,961**	**36**	**34**	**0.24%**	**52**		**83%**	**60%**	**265**	**67**			**26**	**3.0**	**39**
		Max	**21.3**	**19.5**	**2,961**	**36**	**34**	**0.24%**	**52**		**83%**	**60%**	**265**	**67**			**26**	**3.0**	**39**
Hydrologic Unit			Buckeye																
Planning Watershed			Flat Ridge Creek														1113.830001		
Stream		**Buckeye Creek**																	
672	Buc8	2005	18.0	16.5	232	6	71	1.49%	69		33%	36%	76	84			35	4.1	22
672	Buc8	2006	24.4	19.4															
673	Buc9	2005			325	20	60	1.64%	58		28%	29%	106	82			38	3.6	18
673	Buc9	2006	26.7	22.8															
709	Buc	2008	23.6	20.3															
		Avg	**23.2**	**19.7**	**278**	**13**		**1.57%**	**63**		**31%**	**33%**	**91**	**83**			**37**	**3.9**	**20**
Stream		**Flat Ridge Creek**																	
602	FLR2	2000	25.6	20.9															
602	FLR2	2001	25.2	20.5															
602	FLR2	2005			1,173	16	47	1.14%	89		12%	11%	155	88			38	3.2	25
602	FLR2	2006	25.8	22.6															
602	FLR2	2009	26.3	20.7															
674	FLT	2005	19.5	16.7															
		Avg	**24.5**	**20.3**	**1,173**	**16**		**1.14%**	**89**		**12%**	**11%**	**155**	**88**			**38**	**3.2**	**25**
Flat Ridge Creek		**Avg**	**23.9**	**20.0**	**577**	**14**	**59**	**1.42%**	**72**		**24%**	**25%**	**112**	**85**			**37**	**3.6**	**22**
		Min	**18.0**	**16.5**	**232**	**6**	**47**	**1.14%**	**58**		**12%**	**11%**	**76**	**82**			**35**	**3.2**	**18**
		Max	**26.7**	**22.8**	**1,173**	**20**	**71**	**1.64%**	**89**		**33%**	**36%**	**155**	**88**			**38**	**4.1**	**25**

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt			Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates		
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
Planning Watershed			Grasshopper Creek						1113.830003											
Stream			**Buckeye Creek**																	
601	Buc7	2000		26.0	21.0															
601	Buc7	2001		25.6	20.9															
601	Buc7	2004		25.6	20.9															
601	Buc7	2005		24.0	20.5															
601	Buc7	2011		22.1	19.0															
670	Buc4	2005																27	4.6	38
670	Buc4	2006		26.3	22.2	944	8	15	0.58%	26		100%	89%	323	64					
670	Buc4	2008		20.2	18.6															
670	Buc4	2009		21.3	17.9															
670	Buc4	2011		22.7	19.4															
			Avg	**23.7**	**20.0**	**944**	**8**		**0.58%**	**26**		**100%**	**89%**	**323**	**64**			**27**	**4.6**	**38**
Stream			**Franchini Creek**																	
667	FRN1	2005		16.5	14.9													29	4.2	31
667	FRN1	2006		18.7	16.4	4,627	150	32	3.47%	31		75%	97%	228	59					
667	FRN1	2008		14.9	14.5															
667	FRN1	2009		14.2	14.0															
667	FRN1	2010		14.2	13.9															
			Avg	**15.7**	**14.7**	**4,627**	**150**		**3.47%**	**31**		**75%**	**97%**	**228**	**59**			**29**	**4.2**	**31**
Stream			**Grasshopper Creek**																	
696	GRS1	2005																30	3.8	31
696	GRS1	2006				8,000	190	28	2.22%	24		82%	88%	406	65					
696	GRS1	2009		15.1	14.5															
			Avg	**15.1**	**14.5**	**8,000**	**190**		**2.22%**	**24**		**82%**	**88%**	**406**	**65**			**30**	**3.8**	**31**
Stream			**Soda Springs Creek**																	
671	SSP1	2005				2,391	102	66	2.22%	68		100%	94%	251	74			34	3.6	21
671	SSP1	2006		19.7	17.9															
671	SSP1	2010		16.5	15.1															
671	SSP1	2011		17.4	15.6															

Station	Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates		
		Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
	Avg	17.9	16.2	2,391	102			2.22%	68		100%	94%	251	74			34	3.6	21
Grasshopper Creek	Avg	20.0	17.6	3,990	113		35	2.12%	37		89%	92%	302	65			30	4.1	30
	Min	14.2	13.9	944	8		15	0.58%	24		75%	88%	228	59			27	3.6	21
	Max	26.3	22.2	8,000	190		66	3.47%	68		100%	97%	406	74			34	4.6	38

Planning Watershed Harpo Reach 1113.830002

Stream North Fork Buckeye Creek

702	NFB2	2005			771	12	40	0.62%	62		96%	82%	318	59			31	3.9	27
702	NFB2	2008	21.0	18.6															
702	NFB2	2009	19.5	17.3															
		Avg	20.2	17.9	771	12		0.62%	62		96%	82%	318	59			31	3.9	27
Harpo Reach		Avg	20.2	17.9	771	12	40	0.62%	62		96%	82%	318	59			31	3.9	27
		Min	19.5	17.3	771	12	40	0.62%	62		96%	82%	318	59			31	3.9	27
		Max	21.0	18.6	771	12	40	0.62%	62		96%	82%	318	59			31	3.9	27

Planning Watershed Little Creek 1113.830004

Stream Buckeye Creek

223	Buc3	1996	21.4	18.8																
223	Buc3	1997	22.4	19.5																
223	Buc3	1998	22.7	19.7											0	459				
223	Buc3	1999	21.1	18.0											0	0				
223	Buc3	2000			2,960	55	33	0.32%	46		81%	56%	143	99	0	194	32	0.88	4.0	19	26
223	Buc3	2001	21.1	18.0											0	67				
223	Buc3	2002													0	137				
223	Buc3	2003													0	315				
223	Buc3	2004	21.3	17.9											0	46				
223	Buc3	2008	20.6	17.0	2,195	69	22	0.20%	58	-0.7	80%	54%				258				
223	Buc3	2009	19.4	16.5																
223	Buc3	2010	18.0	16.2																
223	Buc3	2011	18.8	16.6																

Station		Year	Temperature		LWD Bank Full (> 6 " > 4 ' or > 10 CuFt)			Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates				
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson	% Dominant Russian R	Index	
224	Buc2	1995	23.9	19.9																		
224	Buc2	1996	22.1	19.3																		
224	Buc2	1997	22.7	19.8																		
224	Buc2	2000	20.9	18.1																		
224	Buc2	2003														0	287					
231	Buc1	1994	21.7	19.7																		
231	Buc1	1995	24.4	20.9																		
231	Buc1	1996	23.7	20.8																		
231	Buc1	1997	23.7	21.1																		
231	Buc1	1998	24.0	21.0	273	11		25	0.36%	27												
231	Buc1	2001	24.3	20.5																		
231	Buc1	2002	21.2	17.8																		
231	Buc1	2011	20.6	18.8																		
235	Buc	1994	21.1	18.3																		
		Avg	**21.8**	**18.9**	**1,809**	**45**			**0.29%**	**44**	**-0.7**	**80%**	**55%**	**143**	**99**	**0**	**196**	**32**	**0.88**	**4.0**	**19**	**26**
Stream		**Little Creek**																				
666	LiCr	2009	13.7	12.9																		
666	LiCr	2010	13.7	13.0																		
666	LiCr	2011	14.2	13.4																		
		Avg	**13.9**	**13.1**																		
Stream		**Meg Creek**																				
286	Meg	1998	15.1	14.3																		
286	Meg	2002	15.0	13.3																		
		Avg	**15.0**	**13.8**																		
Little Creek		**Avg**	**20.5**	**17.9**	**1,809**	**45**		**27**	**0.29%**	**44**	**-0.7**	**80%**	**55%**	**143**	**99**	**0**	**196**	**32**	**0.88**	**4.0**	**19**	**26**
		Min	**13.7**	**12.9**	**273**	**11**		**22**	**0.20%**	**27**	**-0.7**	**80%**	**54%**	**143**	**99**	**0**	**0**	**32**	**0.88**	**4.0**	**5,713**	**26**
		Max	**24.4**	**21.1**	**2,960**	**69**		**33**	**0.36%**	**58**	**-0.7**	**81%**	**56%**	**143**	**99**	**0**	**459**	**32**	**0.88**	**4.0**	**19**	**26**

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates				
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson	% Dominant Russian R Index		
Hydrologic Unit			Wheatfield																		
Planning Watershed			Annapolis						1113.840303												
Stream		**Jennifer Creek**																			
228	Jen	1995		14.5	13.9																
228	Jen	1996		14.0	13.4																
228	Jen	1997		14.8	14.2																
228	Jen	1998		14.1	13.6																
228	Jen	2002		16.3	13.1																
		Avg		**14.7**	**13.6**																
Stream		**Palchett Creek**																			
901	97-3	1999		15.7	14.5																
		Avg		**15.7**	**14.5**																
Stream		**Wheatfield Fork Gualala River**																			
29	62	2009							0.15%	22											
30	70	2009							0.14%	19											
32	WFGr	2009							0.15%	21											
226	Wfg3	1995		25.5	20.9																
226	Wfg3	1996		23.8	20.3																
226	Wfg3	1997		23.1	21.9																
226	Wfg3	1998		24.7	21.7											0	981				
226	Wfg3	2000				1,828	22	27				86%	40%	158	101			32	0.85	4.3	15	32
226	Wfg3	2001		23.2	20.0																
226	Wfg3	2002														0	60				
226	Wfg3	2003				1,310	18	21	0.07%	21						0	182				
226	Wfg3	2008		21.0	18.9	1,637	29	16	0.08%	29	0.05	81%	15%				137				
226	Wfg3	2009																			
226	Wfg3	2010		20.8	19.1																
226	Wfg3	2011		22.5	19.5																

Station		Year		Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt			Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates				
				Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson		% Dominant Russian R Index	
227	Wfg2	1996		24.0	21.2																		
227	Wfg2	1997		25.3	22.2																		
227	Wfg2	1998		24.3	21.5																		
227	Wfg2	2000		25.3	21.2																		
227	Wfg2	2003															0	286					
273	WFG	1995		26.4	22.0																		
403	WFG1	1997																					
403	WFG1	1998		26.4	22.9																		
403	WFG1	2000																					
603	WFG	2001																					
603	WFG	2002		24.0	21.6																		
			Avg	**24.0**	**21.0**	**1,592**	**23**			**0.12%**	**22**	**0.05**	**84%**	**27%**	**158**	**101**	**0**	**329**	**32**	**0.85**	**4.3**	**15**	**32**
Annapolis			**Avg**	**21.4**	**18.9**	**1,592**	**23**		**21**	**0.12%**	**22**	**0.05**	**84%**	**27%**	**158**	**101**	**0**	**329**	**32**	**0.85**	**4.3**	**15**	**32**
			Min	**14.0**	**13.1**	**1,310**	**18**		**16**	**0.07%**	**19**	**0.05**	**81%**	**15%**	**158**	**101**	**0**	**60**	**32**	**0.85**	**4.3**	**7,312**	**32**
			Max	**26.4**	**22.9**	**1,828**	**29**		**27**	**0.15%**	**29**	**0.05**	**86%**	**40%**	**158**	**101**	**0**	**981**	**32**	**0.85**	**4.3**	**15**	**32**

Planning Watershed Fuller Creek 1113.840302

Stream Fuller Creek

606	Ful	2001		23.2	18.5																		
606	Ful	2002		22.9	18.4																		
606	Ful	2004		21.7	18.2																		
606	Ful	2005		20.6	18.0																		
606	Ful	2006		23.6	19.8																		
606	Ful	2009		20.6	16.8																		
606	Ful	2011		19.6	17.0																		
608	Ful1	2001		21.0	17.8																		
608	Ful1	2002		20.6	17.5																		
608	Ful1	2009		20.6	16.5																		
608	Ful1	2010		18.6	16.2																		
608	Ful1	2011		19.6	16.7																		
609	Ful3	2008		19.4	17.5																		
902	Ful	1999		24.0	18.9																		
			Avg	**21.1**	**17.7**																		

Station		Year		Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt			Substrate	Streambed			Riparian Zone			Fish per Mile		Macroinvertebrates		
				Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
Stream		**North Fork Fuller Creek**																		
619	NFU	2000		22.7	18.8															
619	NFU	2001		22.7	18.3															
619	NFU	2002		22.1	17.9															
619	NFU	2004		20.3	17.4															
619	NFU	2005		20.1	16.9															
619	NFU	2006		23.2	19.6															
619	NFU	2009		21.0	16.6															
665	NFu2	2004		18.1	16.3															
			Avg	**21.3**	**17.7**															
Stream		**South Fork Fuller Creek**																		
618	SFU	2000		22.5	19.1															
618	SFU	2001		22.5	18.7															
618	SFU	2002		22.1	18.2															
618	SFU	2004		19.1	17.4															
618	SFU	2005		21.0	18.3															
618	SFU	2006		23.2	20.1															
618	SFU	2009		19.4	16.7															
662	SFu2	2004		21.8	18.4															
663	SFu1	2005				4,273	59		61	2.05%	24				129	44			32	3.2	26
663	SFu1	2009		15.2	14.2															
			Avg	**20.8**	**17.9**	**4,273**	**59**			**2.05%**	**24**				**129**	**44**			**32**	**3.2**	**26**
Fuller Creek			**Avg**	**21.1**	**17.8**	**4,273**	**59**		**61**	**2.05%**	**24**				**129**	**44**			**32**	**3.2**	**26**
			Min	**15.2**	**14.2**	**4,273**	**59**		**61**	**2.05%**	**24**				**129**	**44**			**32**	**3.2**	**26**
			Max	**24.0**	**20.1**	**4,273**	**59**		**61**	**2.05%**	**24**				**129**	**44**			**32**	**3.2**	**26**
Planning Watershed		Haupt Cr								1113.840301										
Stream		**Haupt Cr**																		
637		2009																		
637		2011		19.2	17.4															
			Avg	**19.2**	**17.4**															

Station	Year		Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone			Fish per Mile		Macroinvertebrates		
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness / Simpson	Hilsenhoff / Russian R Index	% Dominant
Haupt Cr		**Avg**	**19.2**	**17.4**																
		Min	**19.2**	**17.4**																
		Max	**19.2**	**17.4**																

Planning Watershed Tobacco Creek 1113.840304

Stream Elk Creek

706	Elk	2005		18.4	16.3															
706	Elk	2006		21.0	18.4															
706	Elk	2009		21.0	17.2															
		Avg		**20.1**	**17.3**															

Stream Wheatfield Fork Gualala River

612	WFG	2001		25.6	22.4															
612	WFG	2002		25.6	22.4															
620	WFG4	2000		27.8	23.1															
620	WFG4	2001		26.0	23.1															
620	WFG4	2002		26.3	23.0															
620	WFG4	2004		25.7	21.9															
620	WFG4	2008		26.3	21.8															
707	WFG	2006		24.4	22.0															
707	WFG	2008		26.7	22.8															
707	WFG	2009		28.7	23.4															
708	WFG	2006		26.3	24.3															
708	WFG	2008		22.9	19.4															
708	WFG	2009		29.5	23.4															
708	WFG	2011		22.5	19.5															
		Avg		**26.0**	**22.3**															
Tobacco Creek		**Avg**		**25.0**	**21.4**															
		Min		**18.4**	**16.3**															
		Max		**29.5**	**24.3**															

Planning Watershed Tombs Creek 1113.840101

Stream Tombs Creek

656		2009		26.0	20.4															

Station	Year		Temperature		LWD Bank Full (> 6 " > 4 ' or > 10 CuFt)		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates		
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness / Simpson	Hilsenhoff / Russian R Index	% Dominant
		Avg	26.0	20.4															
Tombs Creek		Avg	26.0	20.4															
		Min	26.0	20.4															
		Max	26.0	20.4															

Planning Watershed Wolf Creek 1113.840102

Stream Redwood Creek

704	Rdw1	2005															30	4.2	25
704	Rdw1	2006		20.6	19.7	4,799	146		26	6.90%	20	79%	97%	125	52				
		Avg		20.6	19.7	4,799	146			6.90%	20	79%	97%	125	52			30	4.2	25

Stream Wheatfield Fork Gualala River

651	WFG6	2005															24	4.0	20
651	WFG6	2006		27.0	23.5	10	1		49	0.63%	38	66%	18%	82	40				
651	WFG6	2009		21.8	19.9														
652	WFG7	2005															29	3.7	24
652	WFG7	2006		27.9	25.8	107	1		22	0.55%	26	87%	63%	188	44				
652	WFG7	2009		25.2	20.9														
		Avg		25.5	22.5	59	1			0.59%	32	76%	40%	135	42			26	3.8	22
Wolf Creek		Avg		24.5	22.0	1,639	49		32	2.69%	28	77%	59%	132	45			28	4.0	23
		Min		20.6	19.7	10	1		22	0.55%	20	66%	18%	82	40			24	3.7	20
		Max		27.9	25.8	4,799	146		49	6.90%	38	87%	97%	188	52			30	4.2	25

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates				
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson	% Dominant Russian R Index		
Hydrologic Unit			SF Gualala																		
Planning Watershed			Big Pepperwood Creek														1113.850201				
Stream			**Big Pepperwood**																		
218	Ppw3	1994	15.9	14.4																	
218	Ppw3	1995	16.5	15.0																	
218	Ppw3	1996	16.2	14.3																	
218	Ppw3	1997	17.3	15.6																	
218	Ppw3	1998	17.2	15.2	2,490	88		41	1.37%	14						0	153				
218	Ppw3	1999	15.9	14.4	2,324	84		30	1.46%	13	-0.3	90%	88%	348	87	0	132				
218	Ppw3	2000	16.2	14.5												0	21	32	0.79	4.7	15	39
218	Ppw3	2001														0	48				
218	Ppw3	2002	15.6	14.1	6,534	150		45	1.40%	13	-0.7	96%	87%	563	58	0	37				
218	Ppw3	2003	15.5	14.1	7,303	152		35	1.40%	16	-1.2										
218	Ppw3	2004	16.0	14.7	8,154	152		28	1.43%	15	-1.0					0	28				
218	Ppw3	2005	15.6	14.2	8,112	150		37	1.43%	17	-1.1										
218	Ppw3	2006			10,221	178		22	1.56%	16	-1.2										
218	Ppw3	2007			10,268	183		35	1.50%	15	-1.1										
218	Ppw3	2008	15.9	14.8	10,246	197		31	1.52%	17	-1.3	90%	87%				5				
218	Ppw3	2009	15.4	14.3	10,625	203		38	1.52%	16	-1.1					0	84				
218	Ppw3	2010	14.6	13.2	10,777	207		33	1.53%	15	-1.1										
218	Ppw3	2011	14.8	13.5	11,095	215		38	1.51%	16	-1.4	88%	87%			0	153				
219	Ppw2	1995	17.0	14.9																	
219	Ppw2	1996	16.7	14.7																	
219	Ppw2	1997	17.8	15.0																	
219	Ppw2	1998	17.3	14.9																	
219	Ppw2	2009	14.3	13.5																	
219	Ppw2	2011	14.1	13.1																	
248	PPW	1994	17.2	14.6																	
		Avg	**16.0**	**14.4**	**8,179**	**163**			**1.47%**	**15**	**-1.0**	**91%**	**87%**	**455**	**72**	**0**	**74**	**32**	**0.79**	**4.7**	**15**	**39**
Stream			**Groshong Gulch**																		
250	Gros	1996	14.1	13.1																	
250	Gros	2002	16.2	13.3																	

Station		Year		Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone			Fish per Mile		Macroinvertebrates		
				Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness / Simpson	Hilsenhoff / Russian R Index	% Dominant
277	GrG	1998		13.9	13.4																
277	GrG	2000		17.8	14.5																
277	GrG	2011		13.4	12.9																
			Avg	**15.1**	**13.5**																
Stream		**Gualala River**																			
614	Gua8	2000		22.9	18.4																
614	Gua8	2001																			
614	Gua8	2009		21.7	18.1																
750		2009		22.5	19.2																
750		2011		23.2	19.7																
751		2009																			
			Avg	**22.6**	**18.8**																
Stream		**Little Pepperwood**																			
220	Lpw	1994		15.8	14.3																
220	Lpw	1995		19.4	16.0																
220	Lpw	1996		17.8	15.0																
220	Lpw	1997		16.7	16.0																
220	Lpw	1998		17.8	15.6																
220	Lpw	2002		15.1	13.8																
220	Lpw	2003		15.9	14.8												0	121			
220	Lpw	2004		14.8	14.3												0	8			
220	Lpw	2005		16.0	14.6																
220	Lpw	2008		14.7	14.3																
220	Lpw	2009		14.4	13.7																
			Avg	**16.2**	**14.8**												**0**	**65**			

Station		Year		Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates				
				Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson		% Dominant Russian R Index	
Stream		**South Fork Gualala River**																				
217	Gua1	1994		22.7	19.2																	
217	Gua1	1995		25.3	20.6																	
217	Gua1	1996		24.4	20.1																	
217	Gua1	1997		24.6	22.4																	
217	Gua1	1998				934	17		24	0.11%	23		93%	16%								
217	Gua1	1999															0	32				
217	Gua1	2000		23.2	19.2	804	15		25	0.03%	22	-0.1	96%	17%	239	90	0	21	28	0.87	4.4	16	28
217	Gua1	2001		23.3	19.1	1,639	34		20	0.07%	20	0.19					0	11				
217	Gua1	2002				1,479	28		22	0.10%	27	0.008					0					
217	Gua1	2003				1,084	24		12	0.11%	22	0.1					0	149				
217	Gua1	2004		23.2	20.0	1,254	27		19	0.09%	26	0.18					0	97				
217	Gua1	2006				1,016	20		20													
217	Gua1	2007				1,087	22		15	0.13%	21	-0.2										
217	Gua1	2008		24.5	19.8	1,110	29		19	0.10%	23	-0.2						26				
217	Gua1	2009		23.2	18.9	1,109	30		16	0.06%	22	-0.1					0	166				
217	Gua1	2010		22.4	18.3																	
217	Gua1	2011		22.5	18.8												0	465				
			Avg	**23.6**	**19.7**	**1,152**	**24**			**0.09%**	**23**	**-0.03**	**95%**	**17%**	**239**	**90**	**0**	**121**	**28**	**0.87**	**4.4**	**16**	**28**
Big Pepperwood Creek			**Avg**	**18.0**	**15.8**	**4,985**	**100**		**28**	**0.88%**	**19**	**-0.6**	**92%**	**64%**	**383**	**78**	**0**	**93**	**30**	**0.83**	**4.6**	**16**	**33**
			Min	**13.4**	**12.9**	**804**	**15**		**12**	**0.03%**	**13**	**-1.4**	**88%**	**16%**	**239**	**58**	**0**	**5**	**28**	**0.79**	**4.4**	**4,961**	**28**
			Max	**25.3**	**22.4**	**11,095**	**215**		**45**	**1.56%**	**27**	**0.19**	**96%**	**88%**	**563**	**90**	**0**	**465**	**32**	**0.87**	**4.7**	**16**	**39**
Planning Watershed			Lower Marshall Creek															1113.850102					
Stream		**Marshall Creek**																				
607	Mar	2004		22.5	19.7																	
			Avg	**22.5**	**19.7**																	
Lower Marshall Creek			**Avg**	**22.5**	**19.7**																	
			Min	**22.5**	**19.7**																	
			Max	**22.5**	**19.7**																	

Station		Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates		
			Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
Planning Watershed			Mouth of the Gualala River							1113.850202									
Stream			South Fork Gualala River																
16	280	2009							0.10%	22									
17	295	2009							0.18%	25									
18	310	2009							0.23%	32									
19	SFGr	2009							0.13%	28									
20	370	2009							0.31%	20									
225	SFG	1995		24.8	20.8														
225	SFG	1997		22.1	20.6														
229	SFG	1995		23.4	19.9														
229	SFG	1996		22.1	19.0														
229	SFG	1997		25.6	20.5														
230	SFG	1995		22.9	18.9														
230	SFG	1996		21.8	18.4														
230	SFG	1997		24.4	22.3														
230	SFG	1998		22.6	19.5														
230	SFG	2009		20.6	17.6														
230	SFG	2011		20.2	17.6														
402	SFG	1998		22.1	19.7											0	961		
402	SFG	1999				1,473	33	18	0.33%	29		76%	26%	197	108	0	400		
402	SFG	2000		22.4	18.9											0	268		
402	SFG	2001														0	153		
402	SFG	2002														0	121		
402	SFG	2008				1,391	31	19	0.41%	31	-0.1						1,327		
			Avg	**22.7**	**19.5**	**1,432**	**32**		**0.24%**	**27**	**-0.1**	**76%**	**26%**	**197**	**108**	**0**	**539**		
Mouth of the Gualala Ri			**Avg**	**22.7**	**19.5**	**1,432**	**32**	**19**	**0.24%**	**27**	**-0.1**	**76%**	**26%**	**197**	**108**	**0**	**539**		
			Min	**20.2**	**17.6**	**1,391**	**31**	**18**	**0.10%**	**20**	**-0.1**	**76%**	**26%**	**197**	**108**	**0**	**121**		
			Max	**25.6**	**22.3**	**1,473**	**33**	**19**	**0.41%**	**32**	**-0.1**	**76%**	**26%**	**197**	**108**	**0**	**1,327**		
Planning Watershed			Upper Marshall Creek							1113.850101									
Stream			Camper Creek																
699	Cmp	2004		17.9	16.5														
699	Cmp	2005		17.9	16.3														

Station		Year		Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates		
				Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
			Avg	17.9	16.4															
Stream		**Carson Cr**																		
605	Car	2004		16.8	15.6															
605	Car	2005		18.1	16.8															
631	Car1	2004				2,724	39		39	1.45%	42		88%	98%	143	106					
			Avg	17.4	16.2	2,724	39			1.45%	42		88%	98%	143	106					
Stream		**McKenzie Creek**																		
615	McK1	2000		16.0	15.1															
615	McK1	2001		20.6	17.5															
615	McK1	2004		19.8	17.5	997	8		38	1.24%	27		95%	95%	262	133					
615	McK1	2005		20.2	17.8															
617	McK1	2000		20.7	18.3															
617	McK1	2001		20.2	17.5															
617	McK1	2003		20.6	18.7															
617	McK1	2004		18.7	17.2															
617	McK1	2005		20.6	18.1															
			Avg	19.7	17.5	997	8			1.24%	27		95%	95%	262	133					
Stream		**Palmer Creek**																		
621	Plm	2000		23.6	19.3															
621	Plm	2001																		
621	Plm	2003		20.5	18.2															
621	Plm	2004		20.6	17.5															
621	Plm	2005		20.6	17.9															
			Avg	21.3	18.2															
Stream		**Wild Hog Creek**																		
604	Whg	2004		14.9	14.6															
604	Whg	2005		17.9	17.2															
			Avg	16.4	15.9															
Upper Marshall Creek			Avg	19.3	17.2	1,861	24		39	1.35%	34		92%	97%	202	120					
			Min	14.9	14.6	997	8		38	1.24%	27		88%	95%	143	106					
			Max	23.6	19.3	2,724	39		39	1.45%	42		95%	98%	262	133					

Station		Year		Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed		Riparian Zone				Fish per Mile		Macroinvertebrates			
				Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson	% Dominant Russian R Index
Planning Watershed				Upper South Fork Gualala Ri							1113.850104									
Stream				South Fork Gualala River																
616	SFG4	2000		19.4	16.7															
616	SFG4	2001		19.8	16.4															
616	SFG4	2003		19.5	17.4															
616	SFG4	2004		18.7	16.7															
616	SFG4	2005		19.0	17.2															
			Avg	**19.3**	**16.9**															
Upper South Fork Gual			**Avg**	**19.3**	**16.9**															
			Min	**18.7**	**16.4**															
			Max	**19.8**	**17.4**															
Hydrologic Unit				Coastal Gualala																
Planning Watershed				Black Mtn.							1113.900002									
Stream				East Branch Russian Gulch																
469	ERuG	2010									59									
			Avg								**59**									
Stream				Russian Gulch																
471	RuG1	2000		17.5	14.9	8,615	169			0.85%	34		77%	40%	153	44			27	0.81	4.9	11	38
471	RuG1	2002		21.6	15.8																	
471	RuG1	2010									27											
			Avg	**19.5**	**15.3**	**8,615**	**169**			**0.85%**	**30**		**77%**	**40%**	**153**	**44**			**27**	**0.81**	**4.9**	**11**	**38**
Black Mtn.			**Avg**	**19.5**	**15.3**	**8,615**	**169**			**0.85%**	**40**		**77%**	**40%**	**153**	**44**			**27**	**0.81**	**4.9**	**11**	**38**
			Min	**17.5**	**14.9**	**8,615**	**169**			**0.85%**	**27**		**77%**	**40%**	**153**	**44**			**27**	**0.81**	**4.9**	**8,467**	**38**
			Max	**21.6**	**15.8**	**8,615**	**169**			**0.85%**	**59**		**77%**	**40%**	**153**	**44**			**27**	**0.81**	**4.9**	**11**	**38**
Planning Watershed				Black Point							1113.850304									
Stream				Salal Creek																
470	Sal1	2000		15.3	13.5	2,048	127	9		4.69%	11		87%	89%	158	92			33	0.86	2.9	20	29
470	Sal1	2001		13.7	13.4																	

Station	Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate		Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates				
		Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness	Hilsenhoff Simpson		% Dominant Russian R Index	
	Avg	14.5	13.4	2,048	127			4.69%	11		87%	89%	158	92			33	0.86	2.9	20	29
Stream	**School House Creek**																				
472 ScH	2000			829	66		0	5.86%	54		97%	97%	474	93							
	Avg			829	66			5.86%	54		97%	97%	474	93							
Black Point	Avg	14.5	13.4	1,438	97		5	5.28%	32		92%	93%	316	92			33	0.86	2.9	20	29
	Min	13.7	13.4	829	66		0	4.69%	11		87%	89%	158	92			33	0.86	2.9		29
	Max	15.3	13.5	2,048	127		9	5.86%	54		97%	97%	474	93			33	0.86	2.9	20	29

Station	Year	Temperature		LWD Bank Full > 6 " > 4 ' or > 10 CuFt		Substrate	Streambed			Riparian Zone				Fish per Mile		Macroinvertebrates			
		Seasonal Daily Max	MWAT	CuFt/ 1000'	Pieces/ 1000'	< 0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Canopy % Cr.	Basal Area	Tree Ht.	Coho	SH (1+)	Richness / Simpson	Hilsenhoff / Russian R Index	% Dominant
Summary for Assessment Are Gualala-Salmon																			(990 detail records)
	Avg	**19.6**	**17.2**	**3,882**	**78**	**17.6%**	**33**	**1.04%**	**28**	**-0.4**	**81%**	**68%**	**233**	**78**	**1**	**263**	**31**	**0.85**	**4.0**	**17**	**29**
	Min	**13.4**	**12.9**	**10**	**1**	**4.5%**	**0**	**0.03%**	**10**	**-1.4**	**12%**	**11%**	**76**	**40**	**0**	**0**	**24**	**0.79**	**2.9**	**11**	**18**
	Max	**29.5**	**25.8**	**11,095**	**215**	**48.3%**	**71**	**6.90%**	**89**	**0.56**	**100%**	**98%**	**563**	**133**	**32**	**1,552**	**41**	**0.92**	**4.9**	**22**	**41**
Old Growth Watersheds (HRSP)		18.5	16.6			21.6%	62										26.2	0.89			
Poor-Normal-Good									>20								26-35	.8-.89	4.6-3.1	12-17	39-15
NCWQCB Target		18.3	16.8			<14%															

Temperature

- Seasonal Maximum – The highest water temperature recorded during the summer.
- Maximum weekly average temperature (MWAT) - The highest average temperature for any seven day rolling average

Large Woody Debris (LWD)

- LWD must be at least 8 inches on the small end and longer than 4 feet.
- Cubic Feet per 1,000 feet – The cubic volume of LWD located between the bankfull lines.
- Pieces per 1,000' – The number of LWD pieces per 1000'

Stream Substrate

- <0.85mm – The percent fines less than 0.85 millimeters in a McNeal sample.
- D50- The pebble size of the median pebble of a 100 pebble sample. Three sample sites on each reach are averaged.

Fish Surveys

- Presence/absence snorkel surveys were conducted. Rough estimates were made of fish numbers per mile.
- Coho – Coho salmon any age.
- SH (1+) – Steelhead one year old or older.

Streambed (Thalweg) Survey

- Slope – the slope of the channel
- VI – The variation index is the [(SD of residual depth/bank full depth) *100]. This is a way of quantifying roughness and hence suitability for fish. Greater than 20 is a good indication of recovery.
- A/D – The change in elevation of the channel (aggradation or degradation) relative to the first year of measurement.

Riparian Condition

- Canopy Cover percent as measured with a spherical densiometer. Every 200', canopy percent is measured in the center of the channel. And at bank full and 50' into the riparian zone from bankfull on both sides of the channel. Four measurements are averaged at each point.
- WLPZ (Watercourse and Lake Protection Zone) – The average of all the measurements taken on either side of the channel 50' into the riparial zone.
- Cr. – The average of all the measurements taken in the center of the channel.
- Riparian inventory plots were locate both sides of the channel every 200'
- Basal Area – Is the average basal area in square feet of all the riparian plots
- Tree Ht. – Is the average height of the 100 tallest trees per acre.

Macroinvertebrates

- Richness – Total number of Genuses represented.
- Simpson Diversity Index – Measures the evenness of species diversity
- Hilsenhoff – This is a locally modified Hilsenhoff index. It indicates levels of organic pollution
- Russian River Index – A localized index that combines several standard metrics.
- Percent Dominant Taxon – this is a species distribution index

- The information presented in this report is the result of data collected by variety of organizations. Release of the underlying data is by permission of the organization that collected it.