

APPENDIX 3: TABLES

Table 1: Maria Ygnacio Creek; Summary of Riffle, Flatwater, and Pool Habitat Types

Stream Name:		Maria Ygnacio Creek										LLID:		1198094344251			Drainage:		South Coast	
Survey Dates:		11/16/2009 to 12/3/2009																		
Confluence		Quad: SAN MARCOS PASS				Legal				T04NR28WS16		Latitude: 34:25:30.0N		Longitude: 119:48:34.0W						
Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Depth (ft.)	Mean Max Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Volume (cu.ft.)	Estimated Total Volume (cu.ft.)	Mean Residual Pool Vol (cu.ft.)	Mean Shelter Rating					
20	1	CULVERT	8.0	53	1052	4.2	39.0		0.2	3744	74880									
16	0	DRY	6.4	680	10878	43.6														
66	19	FLATWATER	26.5	67	4428	17.7	9.6	0.7	1.2	1078	71129	1047	69084		27					
1	1	NOSURVEY	0.4	2852	2852	11.4														
54	13	POOL	21.7	39	2116	8.5	13.8	1.5	2.6	510	27541	1130	60997	956	64					
92	17	RIFFLE	36.9	40	3640	14.6	7.7	0.5	0.8	120	11016	52	4807		98					
Total Units	Total Units Fully Measured				Total Length (ft.)						Total Area (sq.ft.)		Total Volume (cu.ft.)							
249	51				24966						184565		134888							

Table 2: East Fork Maria Ygnacio; Summary of Riffle, Flatwater, and Pool Habitat Types

Stream Name: East Fork Maria Ygnacio Creek

LLID: 1197934344597

Drainage: South Coast

Survey Dates: 12/3/2009 to 2/11/2010

Confluence **Quad:** GOLETA **Legal** T04NR28WS03 **Latitude:** 34:27:35.0N **Longitude:** 119:47:36.0W

Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Depth (ft.)	Mean Max Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Volume (cu.ft.)	Estimated Total Volume (cu.ft.)	Mean Residual Pool Vol (cu.ft.)	Mean Shelter Rating
5	0	CULVERT	6.1	44	218	4.8									
1	0	DRY	1.2	1604	1604	35.3									
24	7	FLATWATER	29.3	41	992	21.8	5.4	0.4	0.8	228	5478	101	2422		32
19	7	POOL	23.2	31	594	13.1	9.2	0.8	1.7	233	4429	281	5334	209	60
33	7	RIFFLE	40.2	34	1136	25.0	4.0	0.3	0.5	127	4184	46	1525		40
Total Units	Total Units Fully Measured				Total Length (ft.)						Total Area (sq.ft.)		Total Volume (cu.ft.)		
82	21				4544						14091		9281		

Table 3: San Antonio Creek; Summary of Riffle, Flatwater, and Pool Habitat Types

Stream Name: San Antonio Creek **LLID:** 1198042344420 **Drainage:** South Coast
Survey Dates: 12/4/2009 to 12/22/2009

Confluence		Quad: SAN MARCOS PASS	Legal		T04NR28WS10	Latitude: 34:26:31.0N	Longitude: 119:48:15.0W								
Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Depth (ft.)	Mean Max Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Volume (cu.ft.)	Estimated Total Volume (cu.ft.)	Mean Residual Pool Vol (cu.ft.)	Mean Shelter Rating
4	0	CULVERT	1.0	63	253	1.1									
3	0	DRY	0.8	1690	5070	22.2									
129	19	FLATWATER	32.7	43	5511	24.2	8.2	0.6	1.1	368	47412	245	31599		61
68	17	POOL	17.2	32	2155	9.4	10.9	0.9	1.7	359	24439	498	33886	356	73
191	24	RIFFLE	48.4	51	9822	43.1	8.0	0.4	0.8	238	45418	105	20030		166
Total Units	Total Units Fully Measured				Total Length (ft.)						Total Area (sq.ft.)		Total Volume (cu.ft.)		
395	60				22811						117270		85515		

Table 4: East Fork San Antonio; Summary of Riffle, Flatwater, and Pool Habitat Types

Stream Name: East Fork San Antonio **LLID:** 1197648344726 **Drainage:** South Coast
Survey Dates: 12/16/2009 to 12/17/2009

Confluence		Quad: LITTLE PINE MTN.	Legal		T05NR28WS36	Latitude: 34:28:21.0N	Longitude: 119:45:53.0W								
Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Depth (ft.)	Mean Max Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Volume (cu.ft.)	Estimated Total Volume (cu.ft.)	Mean Residual Pool Vol (cu.ft.)	Mean Shelter Rating
1	0	CULVERT	0.7	3	3	0.1									
1	0	DRY	0.7	20	20	0.3									
48	7	FLATWATER	34.8	37	1770	30.1	6.4	0.3	0.7	235	11284	66	3147		37
5	1	POOL	3.6	22	109	1.9	6.5	0.3	1.4	216	1081	151	756	65	30
83	12	RIFFLE	60.1	48	3980	67.7	4.5	0.3	0.6	111	9216	34	2575		190
Total Units	Total Units Fully Measured				Total Length (ft.)						Total Area (sq.ft.)		Total Volume (cu.ft.)		
138	20				5882						21581		6478		

Table 5: Maria Ygnacio Creek; Summary of Habitat Types and Measured Parameters

Stream Name: Maria Ygnacio Creek

LLID: 1198094344251

Drainage: South Coast

Survey Dates: 11/16/2009 to 12/3/2009

Confluence		Quad: SAN MARCOS PASS			Legal T04NR28WS16					Latitude: 34:25:30.0N		Longitude: 119:48:34.0W					Mean	
Units	Habitat Measured	Units Fully Type	Habitat Occurrence (%)	Habitat Length (ft.)	Mean Length (ft.)	Total Length (%)	Total Width (ft.)	Mean Depth (ft.)	Mean Max Depth (ft.)	Mean Area (sq.ft.)	Mean Total Area (sq.ft.)	Estimated Volume (cu.ft.)	Mean Total Volume (cu.ft.)	Estimated Residual Pool Vol (cu.ft.)	Mean Shelter Rating	Mean Canopy (%)	Mean	
66	12	LGR	26.5	42	2769	11.1	7.0	0.4	1.4	132	8698	53	3492		87	96		
20	4	HGR	8.0	36	710	2.8	10.0	0.6	1.2	106	2117	59	1174		114	87		
6	1	CAS	2.4	27	161	0.6	7.0	0.6	1.0	31	185	18	111		150	97		
12	7	GLD	4.8	152	1830	7.3	11.0	0.7	2.5	2244	26927	2484	29813		27	88		
43	8	RUN	17.3	45	1937	7.8	10.0	0.6	2.0	397	17087	195	8402		21	96		
11	4	SRN	4.4	60	661	2.6	8.0	0.6	1.5	398	4373	233	2568		40	98		
28	3	MCP	11.2	40	1124	4.5	13.0	1.6	3.6	498	13957	1074	30084	873	38	85		
3	1	STP	1.2	45	136	0.5	7.0	1.0	1.8	95	286	143	428	95	120	87		
3	1	CRP	1.2	55	166	0.7	9.0	1.0	2.3	539	1616	808	2424	539	45	88		
1	1	LSL	0.4	13	13	0.1	11.0	0.7	2.1	143	143	143	143	100	100	99		
2	2	LSBo	0.8	44	87	0.3	15.0	1.9	3.4	632	1264	1567	3133	1352	53	99		
16	4	PLP	6.4	36	578	2.3	19.0	1.8	14.5	744	11898	1763	28215	1559	69	85		
1	1	BPB	0.4	12	12	0.0	10.0	1.1	1.6	120	120	180	180	132	105	100		
16	0	DRY	6.4	680	10878	43.6										94		
20	1	CUL	8.0	53	1052	4.2	39.0		0.2	3744	74880					98		
1	1	NS	0.4	2852	2852	11.4	0.0			0	0							
Total Units	Total Units Fully Measured				Total Length (ft.)						Total Area (sq.ft.)			Total Volume (cu.ft.)				
249	51				24966						163549			110169				

Table 6: East Fork Maria Ygnacio; Summary of Habitat Types and Measured Parameters

Stream Name: East Fork Maria Ygnacio

LLID: 1197934344597

Drainage: South Coast

Survey Dates: 12/3/2009 to 2/11/2010

Confluence		Quad: GOLETA		Legal			T04NR28WS03			Latitude: 34:27:35.0N		Longitude: 119:47:36.0W				
Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Depth (ft.)	Mean Max Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Volume (cu.ft.)	Estimated Total Volume (cu.ft.)	Mean Residual Pool Vol (cu.ft.)	Mean Shelter Rating	Mean Canopy (%)
30	6	LGR	36.6	34	1007	22.2	4.0	0.2	0.7	100	2998	20	610		35	81
2	1	HGR	2.4	50	99	2.2	6.0	0.7	1.1	288	576	202	403		70	87
1	0	CAS	1.2	30	30	0.7										
15	4	RUN	18.3	31	461	10.1	5.0	0.4	1.2	205	3078	87	1299		33	79
9	3	SRN	11.0	59	531	11.7	6.0	0.5	1.3	259	2330	120	1079		30	76
9	2	MCP	11.0	33	297	6.5	6.0	0.5	1.6	168	1512	106	950	65	20	100
2	2	STP	2.4	28	56	1.2	9.0	0.9	2.1	218	436	247	493	195	195	88
8	3	PLP	9.8	30	241	5.3	12.0	1.0	4.3	287	2292	420	3362	315	42	97
1	0	DRY	1.2	1604	1604	35.3										
5	0	CUL	6.1	44	218	4.8										
Total Units	Total Units Fully Measured				Total Length (ft.)					Total Area (sq.ft.)		Total Volume (cu.ft.)				
82	21				4544					13223		8198				

Table 7: San Antonio Creek; Summary of Habitat Types and Measured Parameters

Stream Name: San Antonio Creek

LLID: 1198042344420

Drainage: South Coast

Survey Dates: 12/4/2009 to 12/22/2009

Confluence		Quad: SAN MARCOS PASS			Legal T04NR28WS10					Latitude: 34:26:31.0N		Longitude: 119:48:15.0W				
Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Depth (ft.)	Mean Max Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Volume (cu.ft.)	Estimated Total Volume (cu.ft.)	Mean Residual Pool Vol (cu.ft.)	Mean Shelter Rating	Mean Canopy (%)
125	17	LGR	31.6	61	7685	33.7	9.0	0.4	1.5	309	38678	135	16896		144	85
58	5	HGR	14.7	34	1994	8.7	6.0	0.6	1.3	65	3782	38	2217		204	82
8	2	CAS	2.0	18	143	0.6	5.0	0.3	1.0	60	483	14	111		225	91
59	7	RUN	14.9	25	1504	6.6	8.0	0.6	1.5	314	18523	203	11979		27	86
70	12	SRN	17.7	57	4007	17.6	8.0	0.6	2.0	399	27916	269	18858		87	79
31	8	MCP	7.8	32	1001	4.4	11.0	0.8	4.2	404	12520	594	18418	455	68	85
1	1	CCP	0.3	25	25	0.1	9.0	0.4	1.4	214	214	171	171	86	75	62
1	0	LSBk	0.3	45	45	0.2			1.5							
1	1	LSBo	0.3	17	17	0.1	10.0	1.3	2.2	162	162	258	258	210	75	80
33	7	PLP	8.4	28	917	4.0	11.0	0.9	4.5	358	11802	470	15506	303	78	80
1	0	DPL	0.3	150	150	0.7			4.7							
3	0	DRY	0.8	1690	5070	22.2										
4	0	CUL	1.0	63	253	1.1										0
Total Units	Total Units Fully Measured				Total Length (ft.)					Total Area (sq.ft.)		Total Volume (cu.ft.)				
395	60				22811					114079		84415				

Table 8: East Fork San Antonio; Summary of Habitat Types and Measured Parameters

Stream Name: East Fork San Antonio

LLID: 1197648344726

Drainage: South Coast

Survey Dates: 12/16/2009 to 12/17/2009

Confluence		Quad: LITTLE PINE MTN.			Legal T05NR28WS36					Latitude: 34:28:21.0N		Longitude: 119:45:53.0W				
Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Depth (ft.)	Mean Max Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Volume (cu.ft.)	Estimated Total Volume (cu.ft.)	Mean Residual Pool Vol (cu.ft.)	Mean Shelter Rating	Mean Canopy (%)
49	5	LGR	35.5	57	2796	47.5	4.0	0.3	0.8	125	6112	37	1813		141	88
30	5	HGR	21.7	37	1112	18.9	4.0	0.2	0.8	110	3313	28	843		219	85
4	2	CAS	2.9	18	72	1.2	6.0	0.5	0.9	78	314	47	94		240	80
33	4	RUN	23.9	30	985	16.7	6.0	0.3	1.0	241	7946	56	1847		36	84
15	3	SRN	10.9	52	785	13.3	7.0	0.3	1.3	227	3412	78	1175		38	74
2	1	MCP	1.4	24	49	0.8	6.0	0.3	1.5	216	432	151	303	65	30	86
3	0	PLP	2.2	20	60	1.0			2.0							93
1	0	DRY	0.7	20	20	0.3										
1	0	CUL	0.7	3	3	0.1										
Total Units	Total Units Fully Measured				Total Length (ft.)					Total Area (sq.ft.)		Total Volume (cu.ft.)				
138	20				5882					21528		6074				

Table 9: Maria Ygnacio Creek; Summary of Pools

Stream Name: Maria Ygnacio Creek **LLID:** 1198094344251 **Drainage:** South Coast
Survey Dates: 11/16/2009 to 12/3/2009

Confluence **Quad:** SAN MARCOS PASS **Legal** T04NR28WS16 **Latitude:** 34:25:30.0N **Longitude:** 119:48:34.0W

Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Residual Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Residual Pool Vol (cu.ft.)	Estimated Total Resid. Vol (cu.ft.)	Mean Shelter Rating
31	4	MAIN	57	41	1260	60	11.4	1.5	398	12327	679	21042	54
22	8	SCOUR	41	38	844	40	15.5	1.6	615	13529	1197	26339	66
1	1	BACKWATER	2	12	12	1	10.0	1.1	120	120	132	132	105
Total Units	Total Units Fully Measured				Total Length (ft.)					Total Area (sq.ft.)		Total Volume (cu.ft.)	
54	13				2116					25976		47513	

Table 10: East Fork Maria Ygnacio; Summary of Pools

Stream Name: East Fork Maria Ygnacio **LLID:** 1197934344597 **Drainage:** South Coast
Survey Dates: 12/3/2009 to 2/11/2010

Confluence		Quad: GOLETA	Legal				Latitude: 34:27:35.0N	Longitude: 119:47:36.0W					
Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Residual Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Residual Pool Vol (cu.ft.)	Estimated Total Resid. Vol (cu.ft.)	Mean Shelter Rating
11	4	MAIN	58	32	353	59	7.4	0.6	193	2123	130	1431	78
8	3	SCOUR	42	30	241	41	11.7	1.0	287	2292	315	2521	42
Total Units	Total Units Fully Measured				Total Length (ft.)					Total Area (sq.ft.)		Total Volume (cu.ft.)	
19	7				594					4415		3952	

Table 11: San Antonio Creek; Summary of Pools

Stream Name: San Antonio Creek

LLID: 1198042344420

Drainage: South Coast

Survey Dates: 12/4/2009 to 12/22/2009

Confluence **Quad:** SAN MARCOS PASS **Legal** T04NR28WS10 **Latitude:** 34:26:31.0N **Longitude:** 119:48:15.0W

Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Residual Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Residual Pool Vol (cu.ft.)	Estimated Total Resid. Vol (cu.ft.)	Mean Shelter Rating
32	9	MAIN	32	32	1026	48	10.9	0.8	383	12248	414	13247	69
35	8	SCOUR	35	28	979	45	10.9	1.0	333	11660	291	10193	78
1	0	BACKWATER	1	150	150	7							
Total Units	Total Units Fully Measured				Total Length (ft.)					Total Area (sq.ft.)		Total Volume (cu.ft.)	
68	17				2155					23908		23440	

Table 12: East Fork San Antonio; Summary of Pools

Stream Name: East Fork San Antonio **LLID:** 1197648344726 **Drainage:** South Coast
Survey Dates: 12/16/2009 to 12/17/2009

Confluence		Quad: LITTLE PINE MTN.	Legal				Latitude: 34:28:21.0N	Longitude: 119:45:53.0W					
Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Residual Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Residual Pool Vol (cu.ft.)	Estimated Total Resid. Vol (cu.ft.)	Mean Shelter Rating
2	1	MAIN	40	25	49	46	6.5	0.3	216	432	65	130	30
3	0	SCOUR	60	20	60	57							
Total Units	Total Units Fully Measured				Total Length (ft.)					Total Area (sq.ft.)		Total Volume (cu.ft.)	
5	1				109					432		130	

Table 13: Maria Ygnacio Creek; Summary of Max Residual Pool Depths

Stream Name:		Maria Ygnacio Creek						LLID:		1198094344251		Drainage:		South Coast			
Survey Dates:		11/16/2009 to 12/3/2009						Latitude:		34:25:30.0N		Longitude:		119:48:34.0W			
Confluence		Quad:		SAN MARCOS PASS		Legal		T04NR28WS16		Latitude:		34:25:30.0N		Longitude:		119:48:34.0W	
Habitat Units	Habitat Type	Habitat Occurrence (%)	< 1 Foot Maximum Residual Depth	< 1 Foot Percent Occurrence	1 < 2 Feet Maximum Residual Depth	1 < 2 Feet Percent Occurrence	2 < 3 Feet Maximum Residual Depth	2 < 3 Feet Percent Occurrence	3 < 4 Feet Maximum Residual Depth	3 < 4 Feet Percent Occurrence	>= 4 Feet Maximum Residual Depth	>= 4 Feet Percent Occurrence					
28	MCP	52	0	0	11	39	12	43	5	18	0	0					
16	PLP	30	0	0	3	19	5	31	4	25	4	25					
3	CRP	6	0	0	2	67	1	33	0	0	0	0					
1	LSL	2	0	0	0	0	1	100	0	0	0	0					
2	LSBo	4	0	0	0	0	1	50	1	50	0	0					
3	STP	6	0	0	3	100	0	0	0	0	0	0					
1	BPB	2	0	0	1	100	0	0	0	0	0	0					
Total Units			Total < 1 Foot Max Resid. Depth	Total < 1 Foot % Occurrence	Total 1< 2 Feet Max Resid. Depth	Total 1< 2 Feet % Occurrence	Total 2< 3 Feet Max Resid. Depth	Total 2< 3 Feet % Occurrence	Total 3< 4 Feet Max Resid. Depth	Total 3< 4 Feet % Occurrence	Total >= 4 Feet Max Resid. Depth	Total >= 4 Feet % Occurrence					
54			0	0	20	37	20	37	10	19	4	7					

Mean Maximum Residual Pool Depth (ft.): 3

Table 14: East Fork Maria Ygnacio; Summary of Max Residual Pool Depths

Stream Name:		East Fork Maria Ygnacio						LLID:		1197934344597		Drainage:		South Coast																			
Survey Dates:		12/3/2009 to 2/11/2010						Confluence		GOLETA		Legal		T04NR28WS03																			
Latitude:		34:27:35.0N		Longitude:		119:47:36.0W		Habitat Units		Habitat Type		Habitat Occurrence (%)		< 1 Foot Maximum Residual Depth		< 1 Foot Percent Occurrence		1 < 2 Feet Maximum Residual Depth		1 < 2 Feet Percent Occurrence		2 < 3 Feet Maximum Residual Depth		2 < 3 Feet Percent Occurrence		3 < 4 Feet Maximum Residual Depth		3 < 4 Feet Percent Occurrence		>= 4 Feet Maximum Residual Depth		>= 4 Feet Percent Occurrence	
9	MCP	47	2	22	7	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	STP	11	0	0	1	50	1	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	PLP	42	1	13	1	13	5	63	0	0	0	1	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Units		Total < 1 Foot Max Resid. Depth		Total < 1 Foot % Occurrence		Total 1 < 2 Feet Max Resid. Depth		Total 1 < 2 Feet % Occurrence		Total 2 < 3 Feet Max Resid. Depth		Total 2 < 3 Feet % Occurrence		Total 3 < 4 Feet Max Resid. Depth		Total 3 < 4 Feet % Occurrence		Total >= 4 Feet Max Resid. Depth		Total >= 4 Feet % Occurrence													
19		3		16		9		47		6		32		0		0		1		5													

Mean Maximum Residual Pool Depth (ft.): 2

Table 15: San Antonio Creek; Summary of Max Residual Pool Depths

Stream Name:		San Antonio Creek						LLID:		1198042344420		Drainage:		South Coast			
Survey Dates:		12/4/2009 to 12/22/2009						Latitude:		34:26:31.0N		Longitude:		119:48:15.0W			
Confluence		Quad:		SAN MARCOS PASS		Legal		T04NR28WS10		Latitude:		34:26:31.0N		Longitude:		119:48:15.0W	
Habitat Units	Habitat Type	Habitat Occurrence (%)	< 1 Foot Maximum Residual Depth	< 1 Foot Percent Occurrence	1 < 2 Feet Maximum Residual Depth	1 < 2 Feet Percent Occurrence	2 < 3 Feet Maximum Residual Depth	2 < 3 Feet Percent Occurrence	3 < 4 Feet Maximum Residual Depth	3 < 4 Feet Percent Occurrence	>= 4 Feet Maximum Residual Depth	>= 4 Feet Percent Occurrence					
31	MCP	46	2	6	23	74	4	13	1	3	1	3					
33	PLP	49	0	0	25	76	4	12	3	9	1	3					
1	LSBo	1	0	0	0	0	1	100	0	0	0	0					
1	LSBk	1	0	0	1	100	0	0	0	0	0	0					
1	DPL	1	0	0	0	0	0	0	0	0	1	100					
1	CCP	1	0	0	1	100	0	0	0	0	0	0					
Total Units			Total < 1 Foot Max Resid. Depth	Total < 1 Foot % Occurrence	Total 1 < 2 Feet Max Resid. Depth	Total 1 < 2 Feet % Occurrence	Total 2 < 3 Feet Max Resid. Depth	Total 2 < 3 Feet % Occurrence	Total 3 < 4 Feet Max Resid. Depth	Total 3 < 4 Feet % Occurrence	Total >= 4 Feet Max Resid. Depth	Total >= 4 Feet % Occurrence					
68			2	3	50	74	9	13	4	6	3	4					

Mean Maximum Residual Pool Depth (ft.): 2

Table 16: East Fork San Antonio; Summary of Max Residual Pool Depths

Stream Name:		East Fork San Antonio						LLID:		1197648344726		Drainage:		South Coast			
Survey Dates:		12/16/2009 to 12/17/2009						Latitude:		34:28:21.0N		Longitude:		119:45:53.0W			
Confluence		Quad:		LITTLE PINE MTN.		Legal		T05NR28WS36		Latitude:		34:28:21.0N		Longitude:		119:45:53.0W	
Habitat Units	Habitat Type	Habitat Occurrence (%)	< 1 Foot Maximum Residual Depth	< 1 Foot Percent Occurrence	1 < 2 Feet Maximum Residual Depth	1 < 2 Feet Percent Occurrence	2 < 3 Feet Maximum Residual Depth	2 < 3 Feet Percent Occurrence	3 < 4 Feet Maximum Residual Depth	3 < 4 Feet Percent Occurrence	>= 4 Feet Maximum Residual Depth	>= 4 Feet Percent Occurrence					
2	MCP	40	1	50	1	50	0	0	0	0	0	0					
3	PLP	60	1	33	0	0	2	67	0	0	0	0					
Total Units			Total < 1 Foot Max Resid. Depth	Total < 1 Foot % Occurrence	Total 1 < 2 Feet Max Resid. Depth	Total 1 < 2 Feet % Occurrence	Total 2 < 3 Feet Max Resid. Depth	Total 2 < 3 Feet % Occurrence	Total 3 < 4 Feet Max Resid. Depth	Total 3 < 4 Feet % Occurrence	Total >= 4 Feet Max Resid. Depth	Total >= 4 Feet % Occurrence					
5			2	40	1	20	2	40	0	0	0	0					

Mean Maximum Residual Pool Depth (ft.): 1

Table 17: Maria Ygnacio Creek; Summary of Mean Percent Cover By Habitat Type

Stream Name:		Maria Ygnacio Creek				LLID:		1198094344251		Drainage:			South Coast												
Survey Dates:		11/16/2009 to 12/3/2009				Confluence				Quad:		SAN MARCOS PASS		Legal		T04NR28WS16		Latitude:		34:25:30.0N		Longitude:		119:48:34.0W	
Habitat Units	Units Fully Measured	Habitat Type	Mean % Undercut Banks	Mean % SWD	Mean % LWD	Mean % Root Mass	Mean % Terr. Vegetation	Mean % Aquatic Vegetation	Mean % White Water	Mean % Boulders	Mean % Bedrock Ledges														
66	12	LGR	0	12	4	0	22	8	12	42	0														
20	5	HGR	0	15	0	0	15	2	30	38	0														
6	1	CAS	0	20	0	0	20	0	30	30	0														
12	7	GLD	19	8	0	0	34	36	0	4	0														
43	8	RUN	0	10	0	3	22	18	1	47	0														
11	4	SRN	0	16	3	0	34	5	13	30	0														
28	4	MCP	19	0	0	5	21	5	15	35	0														
3	1	STP	0	10	0	0	10	0	40	40	0														
3	1	CRP	35	0	0	35	15	0	0	15	0														
1	1	LSL	20	30	20	0	30	0	0	0	0														
2	2	LSBo	20	10	0	20	10	5	5	30	0														
16	4	PLP	23	3	0	3	13	8	31	15	6														
1	1	BPB	40	0	0	0	20	0	0	40	0														
20	0	CUL																							
1	0	NS																							

Table 18: East Fork Maria Ygnacio; Summary of Mean Percent Cover By Habitat Type

Stream Name:		East Fork Maria Ygnacio					LLID:		1197934344597		Drainage:		South Coast	
Survey Dates:		12/3/2009 to 2/11/2010					Confluence				Quad:		GOLETA	
Legal		T04NR28WS03					Latitude:		34:27:35.0N		Longitude:		119:47:36.0W	
Habitat Units	Units Fully Measured	Habitat Type	Mean % Undercut Banks	Mean % SWD	Mean % LWD	Mean % Root Mass	Mean % Terr. Vegetation	Mean % Aquatic Vegetation	Mean % White Water	Mean % Boulders	Mean % Bedrock Ledges			
30	6	LGR	0	13	7	0	15	27	12	27	0			
2	1	HGR	0	0	0	0	30	30	10	30	0			
1	0	CAS												
15	4	RUN	0	21	15	0	20	0	6	38	0			
9	2	SRN	10	15	0	0	30	5	35	5	0			
9	2	MCP	0	18	0	18	23	0	18	5	20			
2	1	STP	35	5	0	10	5	0	35	10	0			
8	3	PLP	27	0	0	8	13	13	7	15	17			
5	0	CUL												

Table 19: San Antonio Creek; Summary of Mean Percent Cover By Habitat Type

Stream Name:		San Antonio Creek				LLID:		1198042344420		Drainage:			South Coast				
Survey Dates:		12/4/2009 to 12/22/2009															
Confluence		Quad:		SAN MARCOS PASS		Legal		T04NR28WS10		Latitude:		34:26:31.0N		Longitude:		119:48:15.0W	
Habitat Units	Units Fully Measured	Habitat Type	Mean % Undercut Banks	Mean % SWD	Mean % LWD	Mean % Root Mass	Mean % Terr. Vegetation	Mean % Aquatic Vegetation	Mean % White Water	Mean % Boulders	Mean % Bedrock Ledges						
125	17	LGR	0	21	3	0	9	1	28	39	0						
58	5	HGR	0	21	6	0	7	0	33	33	0						
8	3	CAS	0	17	0	0	8	0	25	42	8						
59	9	RUN	0	18	0	0	13	2	19	47	0						
70	12	SRN	0	22	1	0	9	2	29	38	0						
31	8	MCP	9	16	2	5	9	0	15	44	0						
1	1	CCP	40	10	0	0	0	0	30	20	0						
1	0	LSBk															
1	1	LSBo	40	10	0	0	5	5	0	40	0						
33	7	PLP	11	15	4	4	6	1	21	34	4						
1	0	DPL															
4	0	CUL															

Table 20: East Fork San Antonio; Summary of Mean Percent Cover By Habitat Type

Stream Name:		East Fork San Antonio				LLID:		1197648344726		Drainage:			South Coast													
Survey Dates:		12/16/2009 to 12/17/2009				Confluence				Quad:		LITTLE PINE MTN.		Legal		T05NR28WS36		Latitude:		34:28:21.0N		Longitude:		119:45:53.0W		
Habitat Units	Units Fully Measured	Habitat Type	Mean % Undercut Banks	Mean % SWD	Mean % LWD	Mean % Root Mass	Mean % Terr. Vegetation	Mean % Aquatic Vegetation	Mean % White Water	Mean % Boulders	Mean % Bedrock Ledges															
49	5	LGR	0	15	0	0	4	0	33	48	0															
30	5	HGR	0	20	0	2	6	0	32	40	0															
4	2	CAS	0	15	0	3	0	0	45	38	0															
33	4	RUN	0	25	0	0	9	0	25	41	0															
15	3	SRN	5	30	0	0	12	0	20	33	0															
2	1	MCP	15	20	0	0	15	0	25	25	0															
3	0	PLP																								
1	0	CUL																								

Table 21: Maria Ygnacio Creek; Summary of Dominant Substrates By Habitat

Stream Name: Maria Ygnacio Creek **LLID:** 1198094344251 **Drainage:** South Coast
Survey Dates: 11/16/2009 to 12/3/2009

Confluence		Quad: SAN MARCOS PASS	Legal		T04NR28WS16	Latitude: 34:25:30.0N	Longitude: 119:48:34.0W		
Habitat Units	Units Fully Measured	Habitat Type	% Total Silt/Clay Dominant	% Total Sand Dominant	% Total Gravel Dominant	% Total Small Cobble Dominant	% Total Large Cobble Dominant	% Total Boulder Dominant	% Total Bedrock Dominant
66	64	LGR	0	5	3	22	30	39	2
20	19	HGR	0	0	0	0	5	89	5
6	6	CAS	0	0	0	0	0	67	33
12	12	GLD	0	100	0	0	0	0	0
43	41	RUN	0	22	20	12	20	24	2
11	11	SRN	0	9	0	9	18	55	9
28	28	MCP	0	54	4	0	4	25	14
3	3	STP	0	0	0	0	0	100	0
3	3	CRP	0	100	0	0	0	0	0
1	1	LSL	0	100	0	0	0	0	0
2	2	LSBo	0	0	0	0	0	100	0
16	15	PLP	0	53	7	0	0	27	13
1	1	BPB	0	0	0	0	0	100	0
20	3	CUL	0	67	0	33	0	0	0
1	0	NS	0	0	0	0	0	0	0

Table 22: East Fork Maria Ygnacio; Summary of Dominant Substrates By Habitat

Stream Name: East Fork Maria Ygnacio **LLID:** 1197934344597 **Drainage:** South Coast
Survey Dates: 12/3/2009 to 2/11/2010

Confluence		Quad: GOLETA	Legal		T04NR28WS03	Latitude: 34:27:35.0N	Longitude: 119:47:36.0W		
Habitat Units	Units Fully Measured	Habitat Type	% Total Silt/Clay Dominant	% Total Sand Dominant	% Total Gravel Dominant	% Total Small Cobble Dominant	% Total Large Cobble Dominant	% Total Boulder Dominant	% Total Bedrock Dominant
30	28	LGR	0	21	32	7	4	32	4
2	2	HGR	0	0	0	0	0	100	0
1	1	CAS	0	0	0	0	0	0	100
15	15	RUN	0	73	7	0	0	7	13
9	9	SRN	0	33	56	0	0	11	0
9	9	MCP	0	89	0	0	0	0	11
2	2	STP	0	0	0	0	0	50	50
8	8	PLP	0	50	13	0	0	13	25
5	0	CUL	0	0	0	0	0	0	0

Table 23: San Antonio Creek; Summary of Dominant Substrates By Habitat

Stream Name: San Antonio Creek **LLID:** 1198042344420 **Drainage:** South Coast
Survey Dates: 12/4/2009 to 12/22/2009

Confluence		Quad: SAN MARCOS PASS	Legal		T04NR28WS10	Latitude: 34:26:31.0N	Longitude: 119:48:15.0W		
Habitat Units	Units Fully Measured	Habitat Type	% Total Silt/Clay Dominant	% Total Sand Dominant	% Total Gravel Dominant	% Total Small Cobble Dominant	% Total Large Cobble Dominant	% Total Boulder Dominant	% Total Bedrock Dominant
125	122	LGR	2	6	0	3	13	71	4
58	58	HGR	2	0	0	0	0	93	5
8	8	CAS	0	0	0	0	0	75	25
59	59	RUN	36	5	2	3	17	36	2
70	69	SRN	26	13	0	0	0	61	0
31	31	MCP	29	16	0	0	0	48	6
1	1	CCP	100	0	0	0	0	0	0
1	1	LSBk	0	0	0	0	0	0	100
1	1	LSBo	0	100	0	0	0	0	0
33	33	PLP	27	9	3	0	0	61	0
1	1	DPL	0	100	0	0	0	0	0
4	1	CUL	0	0	0	0	0	0	100

Table 24: East Fork San Antonio; Summary of Dominant Substrates By Habitat

Stream Name: East Fork San Antonio **LLID:** 1197648344726 **Drainage:** South Coast
Survey Dates: 12/16/2009 to 12/17/2009

Confluence		Quad: LITTLE PINE MTN.	Legal		T05NR28WS36	Latitude: 34:28:21.0N	Longitude: 119:45:53.0W		
Habitat Units	Units Fully Measured	Habitat Type	% Total Silt/Clay Dominant	% Total Sand Dominant	% Total Gravel Dominant	% Total Small Cobble Dominant	% Total Large Cobble Dominant	% Total Boulder Dominant	% Total Bedrock Dominant
49	49	LGR	6	35	0	0	6	51	2
30	28	HGR	0	4	0	0	0	96	0
4	4	CAS	0	0	0	0	0	75	25
33	31	RUN	42	58	0	0	0	0	0
15	15	SRN	33	67	0	0	0	0	0
2	2	MCP	100	0	0	0	0	0	0
3	3	PLP	67	33	0	0	0	0	0
1	0	CUL	0	0	0	0	0	0	0

Table 25: Maria Ygnacio Creek; Summary of Mean Percent Canopy

Stream Name: Maria Ygnacio Creek

LLID: 1198094344251

Drainage: South Coast

Survey Dates: 11/16/2009 to 12/3/2009

Confluence **Quad:** SAN MARCOS PASS **Legal**

T04NR28WS16

Latitude: 34:25:30.0N

Longitude: 119:48:34.0W

Mean Percent Canopy	Mean Percent Conifer	Mean Percent Hardwood	Mean Percent Open Units	Mean Right Bank % Cover	Mean Left Bank % Cover
93	0	100	0	44	37

Note: Mean percent conifer and hardwood for the entire reach are means of canopy components from units with canopy values greater than zero.

Open units represent habitat units with zero canopy cover.

Table 26: East Fork Maria Ygnacio; Summary of Mean Percent Canopy

Stream Name: East Fork Maria Ygnacio **LLID:** 1197934344597 **Drainage:** South Coast
Survey Dates: 12/3/2009 to 2/11/2010
Confluence **Quad:** GOLETA **Legal** T04NR28WS03 **Latitude:** 34:27:35.0N **Longitude:** 119:47:36.0W

Mean Percent Canopy	Mean Percent Conifer	Mean Percent Hardwood	Mean Percent Open Units	Mean Right Bank % Cover	Mean Left Bank % Cover
84	0	100	0	38	38

Note: Mean percent conifer and hardwood for the entire reach are means of canopy components from units with canopy values greater than zero.

Open units represent habitat units with zero canopy cover.

Table 27: San Antonio Creek; Summary of Mean Percent Canopy

Stream Name: San Antonio Creek

LLID: 1198042344420

Drainage: South Coast

Survey Dates: 12/4/2009 to 12/22/2009

Confluence **Quad:** SAN MARCOS PASS **Legal**

T04NR28WS10

Latitude: 34:26:31.0N

Longitude: 119:48:15.0W

Mean Percent Canopy	Mean Percent Conifer	Mean Percent Hardwood	Mean Percent Open Units	Mean Right Bank % Cover	Mean Left Bank % Cover
83	0	100	1	42	48

Note: Mean percent conifer and hardwood for the entire reach are means of canopy components from units with canopy values greater than zero.

Open units represent habitat units with zero canopy cover.

Table 28: East Fork San Antonio; Summary of Mean Percent Canopy

Stream Name: East Fork San Antonio

LLID: 1197648344726

Drainage: South Coast

Survey Dates: 12/16/2009 to 12/17/2009

Confluence **Quad:** LITTLE PINE MTN. **Legal**

T05NR28WS36

Latitude: 34:28:21.0N

Longitude: 119:45:53.0W

Mean Percent Canopy	Mean Percent Conifer	Mean Percent Hardwood	Mean Percent Open Units	Mean Right Bank % Cover	Mean Left Bank % Cover
84	0	100	0	23	25

Note: Mean percent conifer and hardwood for the entire reach are means of canopy components from units with canopy values greater than zero.

Open units represent habitat units with zero canopy cover.

Table 29: Maria Ygnacio Creek; Fish Habitat Inventory Data

Stream Name: Maria Ygnacio Creek LLID: 1198094344251 Drainage: South Coast
 Survey Dates: 11/16/2009 to 12/3/2009 Survey Length (ft.): 24965. Main Channel (ft.): 24926. Side Channel (ft.): 39
 Confluence Location: Quad: SAN MARCOS Legal T04NR28WS16 Latitude 34:25:30.0N Longitude 119:48:34.0W

Summary of Fish Habitat Elements By Stream Reach

STREAM REACH: 1

Channel Type: B5	Canopy Density (%): 77.6	Pools by Stream Length (%): 0.5
Reach Length (ft.): 11638	Coniferous Component (%): 0.0	Pool Frequency (%): 7.1
Riffle/Flatwater Mean Width (ft.): 10.0	Hardwood Component (%): 100.0	Residual Pool Depth (%):
BFW:	Dominant Bank Vegetation: Hardwood Trees	< 2 Feet Deep: 0.0
Range (ft.): 30 to 30	Vegetative Cover (%): 62.0	2 to 2.9 Feet Deep: 50.0
Mean (ft.): 30	Dominant Shelter: Aquatic Vegetation	3 to 3.9 Feet Deep: 50.0
Std. Dev.: 0	Dominant Bank Substrate Type: Sand/Silt/Clay	>= 4 Feet Deep: 0.0
Base Flow (cfs): 0	Occurrence of LWD (%): 0.0	Mean Max Residual Pool Depth (ft.): 2.5
Water (F): 52 - 52 Air (F): 54 - 67	LWD per 100 ft.:	Mean Pool Shelter Rating: 15
Dry Channel (ft.): 9708.5	Riffles:	
	Pools:	
	Flat:	
Pool Tail Substrate (%): Silt/Clay: 0.0 Sand: 100. Gravel: 0.0 Sm Cobble: 0.0 Lg Cobble: 0.0 Boulder: 0.0 Bedrock: 0.0		
Embeddedness Values (%): 1. 0.0 2. 0.0 3. 0.0 4. 0.0 5. 100.0		

STREAM REACH: 2

Channel Type: G2	Canopy Density (%): 96.0	Pools by Stream Length (%): 11.2
Reach Length (ft.): 9265.5	Coniferous Component (%): 0.0	Pool Frequency (%): 19.5
Riffle/Flatwater Mean Width (ft.): 8.2	Hardwood Component (%): 100.0	Residual Pool Depth (%):
BFW:	Dominant Bank Vegetation: Hardwood Trees	< 2 Feet Deep: 52.2
Range (ft.): 29 to 29	Vegetative Cover (%): 49.8	2 to 2.9 Feet Deep: 34.8
Mean (ft.): 29	Dominant Shelter: Boulders	3 to 3.9 Feet Deep: 8.7
Std. Dev.: 0	Dominant Bank Substrate Type: Sand/Silt/Clay	>= 4 Feet Deep: 4.3
Base Flow (cfs): 0	Occurrence of LWD (%): 1.2	Mean Max Residual Pool Depth (ft.): 2.14
Water (F): 50 - 54 Air (F): 53 - 67	LWD per 100 ft.:	Mean Pool Shelter Rating: 77
Dry Channel (ft.): 1169	Riffles:	
	Pools:	
	Flat:	
Pool Tail Substrate (%): Silt/Clay: 0.0 Sand: 26.1 Gravel: 30.4 Sm Cobble: 30.4 Lg Cobble: 0.0 Boulder: 13.0 Bedrock: 0.0		
Embeddedness Values (%): 1. 8.7 2. 39.1 3. 13.0 4. 0.0 5. 39.1		

Summary of Fish Habitat Elements By Stream Reach

STREAM REACH: 3

Channel Type: A2	Canopy Density (%): 91.8	Pools by Stream Length (%): 25.2
Reach Length (ft.): 4023	Coniferous Component (%): 0.0	Pool Frequency (%): 28.2
Riffle/Flatwater Mean Width (ft.): 9.1	Hardwood Component (%): 100.0	Residual Pool Depth (%):
BFW:	Dominant Bank Vegetation: Hardwood Trees	< 2 Feet Deep: 27.6
Range (ft.): 23 to 27	Vegetative Cover (%): 24.0	2 to 2.9 Feet Deep: 37.9
Mean (ft.): 23.5825242718447	Dominant Shelter: Boulders	3 to 3.9 Feet Deep: 24.1
Std. Dev.: 1.1866921623765	Dominant Bank Substrate Type: Boulder	>= 4 Feet Deep: 10.3
Base Flow (cfs): 0	Occurrence of LWD (%): 2.5	Mean Max Residual Pool Depth (ft.): 3
Water (F): 50 - 56 Air (F): 50 - 63	LWD per 100 ft.:	Mean Pool Shelter Rating: 66
Dry Channel (ft.): 0	Riffles:	
	Pools:	
	Flat:	
Pool Tail Substrate (%): Silt/Clay: 0.0 Sand: 10.3 Gravel: 34.5 Sm Cobble: 20.7 Lg Cobble: 6.9 Boulder: 27.6 Bedrock: 0.0		
Embeddedness Values (%): 1. 31.0 2. 27.6 3. 3.4 4. 0.0 5. 37.9		

Table 30: East Fork Maria Ygnacio; Fish Habitat Inventory Data

Stream Name: East Fork Maria Ygnacio LLID: 1197934344597 Drainage: South Coast
 Survey Dates: 12/3/2009 to 2/11/2010 Survey Length (ft.): 4543.5 Main Channel (ft.): 4543.5 Side Channel (ft.): 0
 Confluence Location: Quad: GOLETA Legal T04NR28WS03 Latitude 34:27:35.0N Longitude 119:47:36.0W

Summary of Fish Habitat Elements By Stream Reach

STREAM REACH: 1

Channel Type: B5	Canopy Density (%): 83.8	Pools by Stream Length (%): 13.1
Reach Length (ft.): 4543.5	Coniferous Component (%): 0.0	Pool Frequency (%): 23.2
Riffle/Flatwater Mean Width (ft.): 4.7	Hardwood Component (%): 100.0	Residual Pool Depth (%):
BFW:	Dominant Bank Vegetation: Hardwood Trees	< 2 Feet Deep: 63.2
Range (ft.): 15 to 15	Vegetative Cover (%): 38.2	2 to 2.9 Feet Deep: 31.6
Mean (ft.): 15	Dominant Shelter: Boulders	3 to 3.9 Feet Deep: 0.0
Std. Dev.: 0	Dominant Bank Substrate Type: Sand/Silt/Clay	>= 4 Feet Deep: 5.3
Base Flow (cfs): 0.7	Occurrence of LWD (%): 4.8	Mean Max Residual Pool Depth (ft.): 1.68
Water (F): 47 - 58 Air (F): 47 - 65	LWD per 100 ft.:	Mean Pool Shelter Rating: 60
Dry Channel (ft.): 1604	Riffles:	
	Pools:	
	Flat:	
Pool Tail Substrate (%): Silt/Clay: 0.0 Sand: 26.3 Gravel: 63.2 Sm Cobble: 0.0 Lg Cobble: 0.0 Boulder: 5.3 Bedrock: 5.3		
Embeddedness Values (%): 1. 5.3 2. 10.5 3. 31.6 4. 15.8 5. 36.8		

Table 31: San Antonio Creek; Fish Habitat Inventory Data

Stream Name: San Antonio Creek LLID: 1198042344420 Drainage: South Coast
 Survey Dates: 12/4/2009 to 12/22/2009 Survey Length (ft.): 22811 Main Channel (ft.): 22686 Side Channel (ft.): 125
 Confluence Location: Quad: SAN MARCOS Legal T04NR28WS10 Latitude 34:26:31.0N Longitude 119:48:15.0W

Summary of Fish Habitat Elements By Stream Reach

STREAM REACH: 1

Channel Type: B5	Canopy Density (%): 82.7	Pools by Stream Length (%): 9.4
Reach Length (ft.): 22686	Coniferous Component (%): 0.0	Pool Frequency (%): 17.2
Riffle/Flatwater Mean Width (ft.): 8.1	Hardwood Component (%): 100.0	Residual Pool Depth (%):
BFW:	Dominant Bank Vegetation: Hardwood Trees	< 2 Feet Deep: 76.5
Range (ft.): 1 to 31	Vegetative Cover (%): 44.7	2 to 2.9 Feet Deep: 13.2
Mean (ft.): 20.6784810126582	Dominant Shelter: Boulders	3 to 3.9 Feet Deep: 5.9
Std. Dev.: 6.76208100105504	Dominant Bank Substrate Type: Boulder	>= 4 Feet Deep: 4.4
Base Flow (cfs):	Occurrence of LWD (%): 2.2	Mean Max Residual Pool Depth (ft.): 1.74
Water (F): 0 - 55 Air (F): 45 - 62	LWD per 100 ft.:	Mean Pool Shelter Rating: 73
Dry Channel (ft.): 5070	Riffles:	
	Pools:	
	Flat:	
Pool Tail Substrate (%): Silt/Clay: 16.2 Sand: 1.5 Gravel: 5.9 Sm Cobble: 4.4 Lg Cobble: 10.3 Boulder: 58.8 Bedrock: 2.9		
Embeddedness Values (%): 1. 0.0 2. 10.3 3. 8.8 4. 2.9 5. 77.9		

Table 32: East Fork San Antonio; Fish Habitat Inventory Data

Stream Name: East Fork San Antonio LLID: 1197648344726 Drainage: South Coast
 Survey Dates: 12/16/2009 to 12/17/2009 Survey Length (ft.): 5882.2 Main Channel (ft.): 5785.2 Side Channel (ft.): 97
 Confluence Location: Quad: LITTLE PINE MTN. Legal T05NR28WS36 Latitude 34:28:21.0N Longitude 119:45:53.0W

Summary of Fish Habitat Elements By Stream Reach

STREAM REACH: 1

Channel Type: B2	Canopy Density (%): 84.1	Pools by Stream Length (%): 1.9
Reach Length (ft.): 5785.2	Coniferous Component (%): 0.0	Pool Frequency (%): 3.6
Riffle/Flatwater Mean Width (ft.): 5.2	Hardwood Component (%): 100.0	Residual Pool Depth (%):
BFW:	Dominant Bank Vegetation: Hardwood Trees	< 2 Feet Deep: 60.0
Range (ft.): 15 to 27	Vegetative Cover (%): 24.1	2 to 2.9 Feet Deep: 40.0
Mean (ft.): 21.9565217391304	Dominant Shelter: Boulders	3 to 3.9 Feet Deep: 0.0
Std. Dev.: 5.92326482293093	Dominant Bank Substrate Type: Boulder	>= 4 Feet Deep: 0.0
Base Flow (cfs): 0	Occurrence of LWD (%): 0.0	Mean Max Residual Pool Depth (ft.): 1.4
Water (F): 50 - 56 Air (F): 51 - 59	LWD per 100 ft.:	Mean Pool Shelter Rating: 30
Dry Channel (ft.): 20	Riffles:	
	Pools:	
	Flat:	
Pool Tail Substrate (%): Silt/Clay: 60.0 Sand: 20.0 Gravel: 0.0 Sm Cobble: 0.0 Lg Cobble: 0.0 Boulder: 20.0 Bedrock: 0.0		
Embeddedness Values (%): 1. 0.0 2. 0.0 3. 0.0 4. 0.0 5. 100.0		

Table 33: Maria Ygnacio Creek; Mean Percentage of Dominant Substrate and Vegetation

Stream Name: Maria Ygnacio Creek **LLID:** 1198094344251 **Drainage:** South Coast
Survey Dates: 11/16/2009 to 12/3/2009
Confluence **Quad:** SAN MARCOS PASS **Legal** T04NR28WS16 **Latitude:** 34:25:30.0N **Longitude:** 119:48:34.0W

Mean Percentage of Dominant Stream Bank

Dominant Class of Substrate	Number of Units Right Bank	Number of Units Left Bank	Total Mean Percentage (%)
Bedrock	7	6	12.5
Boulder	11	22	31.7
Cobble/Gravel	0	0	0.0
Sand/Silt/Cla	34	23	54.8

Mean Percentage of Dominant Stream Bank

Dominant Class of Vegetation	Number of Units Right Bank	Number of Units Left Bank	Total Mean Percentage
Grass	0	1	1.0
Brush	2	3	4.8
Hardwood Trees	49	46	91.3
Coniferous	0	0	0.0
No	0	1	1.0

Total Stream Cobble Embeddedness 3

Table 34: East Fork Maria Ygnacio; Mean Percentage of Dominant Substrate and Vegetation

Stream Name: East Fork Maria Ygnacio **LLID:** 1197934344597 **Drainage:** South Coast
Survey Dates: 12/3/2009 to 2/11/2010
Confluence **Quad:** GOLETA **Legal** T04NR28WS03 **Latitude:** 34:27:35.0N **Longitude:** 119:47:36.0W

Mean Percentage of Dominant Stream Bank

Dominant Class of Substrate	Number of Units Right Bank	Number of Units Left Bank	Total Mean Percentage (%)
Bedrock	4	4	19.0
Boulder	3	4	16.7
Cobble/Gravel	0	0	0.0
Sand/Silt/Cla	14	13	64.3

Mean Percentage of Dominant Stream Bank

Dominant Class of Vegetation	Number of Units Right Bank	Number of Units Left Bank	Total Mean Percentage
Grass	0	1	2.4
Brush	6	5	26.2
Hardwood Trees	15	15	71.4
Coniferous	0	0	0.0
No	0	0	0.0

Total Stream Cobble Embeddedness 4

Table 35: San Antonio Creek; Mean Percentage of Dominant Substrate and Vegetation

Stream Name: San Antonio Creek **LLID:** 1198042344420 **Drainage:** South Coast
Survey Dates: 12/4/2009 to 12/22/2009
Confluence **Quad:** SAN MARCOS PASS **Legal** T04NR28WS10 **Latitude:** 34:26:31.0N **Longitude:** 119:48:15.0W

Mean Percentage of Dominant Stream Bank

Dominant Class of Substrate	Number of Units Right Bank	Number of Units Left Bank	Total Mean Percentage (%)
Bedrock	1	2	2.4
Boulder	54	56	87.3
Cobble/Gravel	1	0	0.8
Sand/Silt/Cla	7	5	9.5

Mean Percentage of Dominant Stream Bank

Dominant Class of Vegetation	Number of Units Right Bank	Number of Units Left Bank	Total Mean Percentage
Grass	2	2	3.2
Brush	3	5	6.3
Hardwood Trees	58	55	89.7
Coniferous	0	0	0.0
No	0	1	0.8

Total Stream Cobble Embeddedness 4

Table 36: East Fork San Antonio; Mean Percentage of Dominant Substrate and Vegetation

Stream Name: East Fork San Antonio **LLID:** 1197648344726 **Drainage:** South Coast
Survey Dates: 12/16/2009 to 12/17/2009
Confluence **Quad:** LITTLE PINE MTN. **Legal** T05NR28WS36 **Latitude:** 34:28:21.0N **Longitude:** 119:45:53.0W

Mean Percentage of Dominant Stream Bank

Dominant Class of Substrate	Number of Units Right Bank	Number of Units Left Bank	Total Mean Percentage (%)
Bedrock	3	2	12.5
Boulder	14	10	60.0
Cobble/Gravel	0	0	0.0
Sand/Silt/Cla	3	8	27.5

Mean Percentage of Dominant Stream Bank

Dominant Class of Vegetation	Number of Units Right Bank	Number of Units Left Bank	Total Mean Percentage
Grass	0	1	2.5
Brush	2	1	7.5
Hardwood Trees	17	18	87.5
Coniferous	0	0	0.0
No	1	0	2.5

Total Stream Cobble Embeddedness 5

Table 37: Maria Ygnacio Creek; Mean Percent of Shelter Cover Types

Stream Name: Maria Ygnacio Creek **LLID:** 1198094344251 **Drainage:** South Coast
Survey Dates: 11/16/2009 to 12/3/2009
Confluence **Quad:** SAN MARCOS PASS **Legal** T04NR28WS16 **Latitude:** 34:25:30.0N **Longitude:** 119:48:34.0W

	Riffles	Flatwater	Pools
UNDERCUT BANKS (%)	0	7	21
SMALL WOODY DEBRIS (%)	13	11	5
LARGE WOODY DEBRIS (%)	3	1	1
ROOT MASS (%)	0	1	8
TERRESTRIAL VEGETATION (%)	20	29	16
AQUATIC VEGETATION (%)	6	22	4
WHITewater (%)	18	3	17
BOULDERS (%)	40	27	25
BEDROCK LEDGES (%)	0	0	2

Table 38: East Fork Maria Ygnacio; Mean Percent of Shelter Cover Types

Stream Name: East Fork Maria Ygnacio **LLID:** 1197934344597 **Drainage:** South Coast
Survey Dates: 12/3/2009 to 2/11/2010
Confluence **Quad:** GOLETA **Legal** T04NR28WS03 **Latitude:** 34:27:35.0N **Longitude:** 119:47:36.0W

	Riffles	Flatwater	Pools
UNDERCUT BANKS (%)	0	3	19
SMALL WOODY DEBRIS (%)	11	19	7
LARGE WOODY DEBRIS (%)	6	10	0
ROOT MASS (%)	0	0	12
TERRESTRIAL VEGETATION (%)	17	23	15
AQUATIC VEGETATION (%)	27	2	7
WHITEWATER (%)	11	16	15
BOULDERS (%)	27	27	11
BEDROCK LEDGES (%)	0	0	15

Table 39: San Antonio Creek; Mean Percent of Shelter Cover Types

Stream Name: San Antonio Creek **LLID:** 1198042344420 **Drainage:** South Coast
Survey Dates: 12/4/2009 to 12/22/2009
Confluence **Quad:** SAN MARCOS PASS **Legal** T04NR28WS10 **Latitude:** 34:26:31.0N **Longitude:** 119:48:15.0W

	Riffles	Flatwater	Pools
UNDERCUT BANKS (%)	0	0	14
SMALL WOODY DEBRIS (%)	20	20	15
LARGE WOODY DEBRIS (%)	3	0	3
ROOT MASS (%)	0	0	4
TERRESTRIAL VEGETATION (%)	9	11	7
AQUATIC VEGETATION (%)	0	2	1
WHITewater (%)	29	25	17
BOULDERS (%)	38	42	39
BEDROCK LEDGES (%)	1	0	1

Table 40: East Fork San Antonio; Mean Percent of Shelter Cover Types

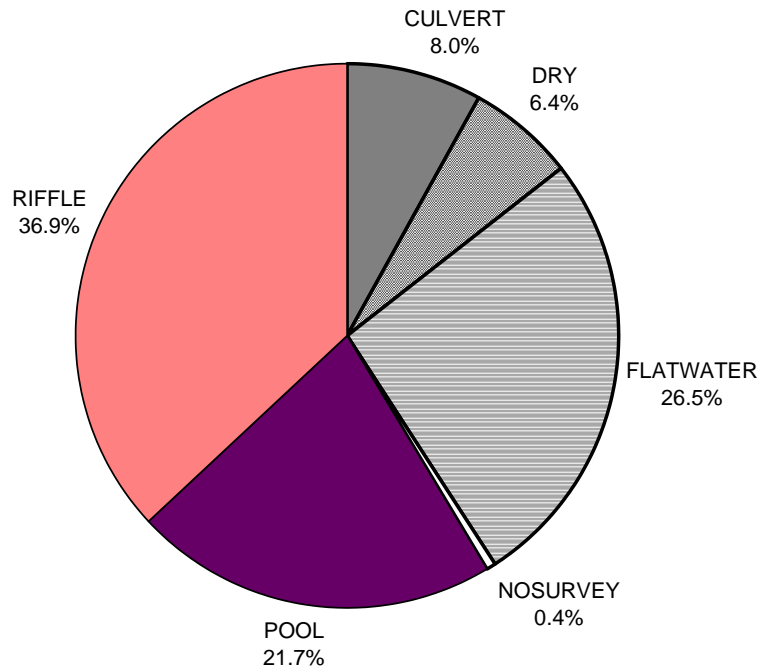
Stream Name: East Fork San Antonio **LLID:** 1197648344726 **Drainage:** South Coast
Survey Dates: 12/16/2009 to 12/17/2009
Confluence **Quad:** LITTLE PINE MTN. **Legal** T05NR28WS36 **Latitude:** 34:28:21.0N **Longitude:** 119:45:53.0W

	Riffles	Flatwater	Pools
UNDERCUT BANKS (%)	0	2	15
SMALL WOODY DEBRIS (%)	17	27	20
LARGE WOODY DEBRIS (%)	0	0	0
ROOT MASS (%)	1	0	0
TERRESTRIAL VEGETATION (%)	4	10	15
AQUATIC VEGETATION (%)	0	0	0
WHITewater (%)	35	23	25
BOULDERS (%)	43	38	25
BEDROCK LEDGES (%)	0	0	0

APPENDIX 4: GRAPHS

Graph 1: Maria Ygnacio Creek, Habitat Types by Percent Occurrence

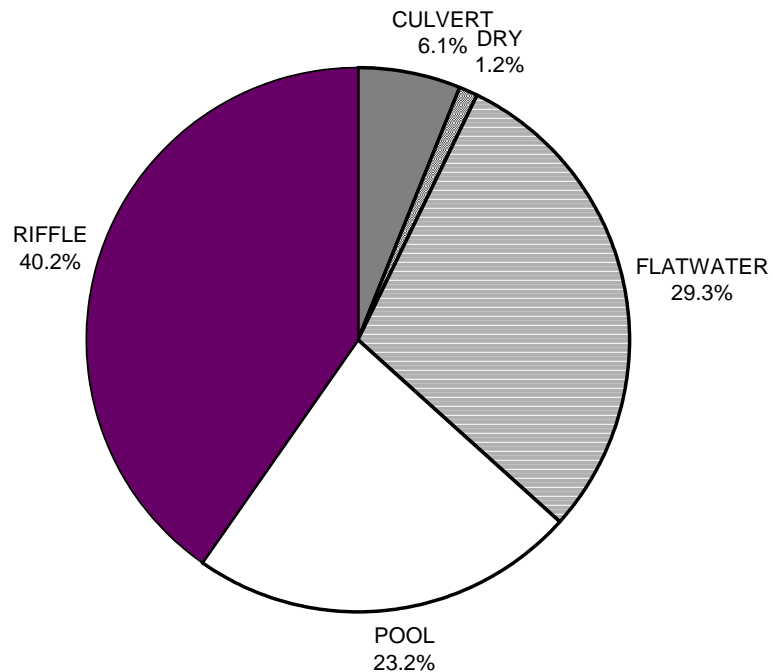
**MARIA YGNACIO CREEK 2009
HABITAT TYPES BY PERCENT OCCURRENCE**



GRAPH 1

Graph 2: East Fork Maria Ygnacio, Habitat Types by Percent Occurrence

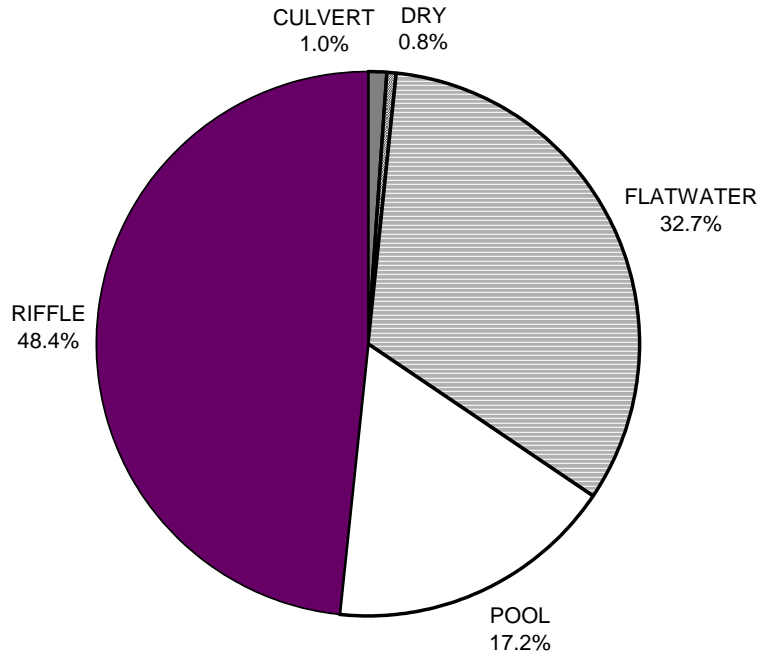
**EAST FORK MARIA YGNACIO CREEK 2009
HABITAT TYPES BY PERCENT OCCURRENCE**



GRAPH 2

Graph 3: San Antonio Creek, Habitat Types by Percent Occurrence

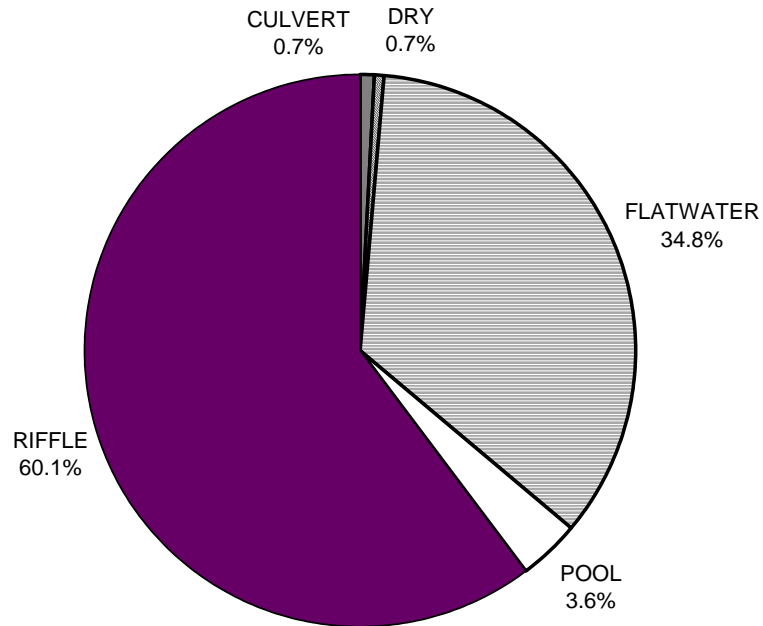
**SAN ANTONIO CREEK 2009
HABITAT TYPES BY PERCENT OCCURRENCE**



GRAPH 3

Graph 4: East Fork San Antonio, Habitat Types by Percent Occurrence

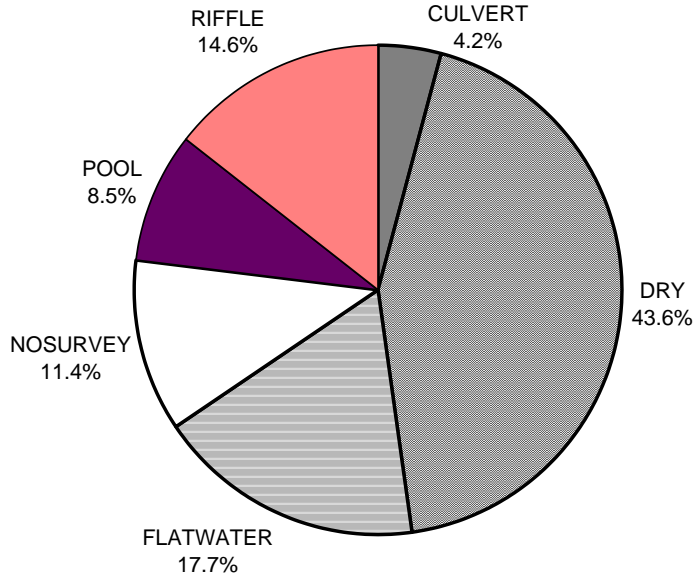
**EAST FORK SAN ANTONIO CREEK 2009
HABITAT TYPES BY PERCENT OCCURRENCE**



GRAPH 4

Graph 5: Maria Ygnacio Creek, Habitat Types by Percent Total Length

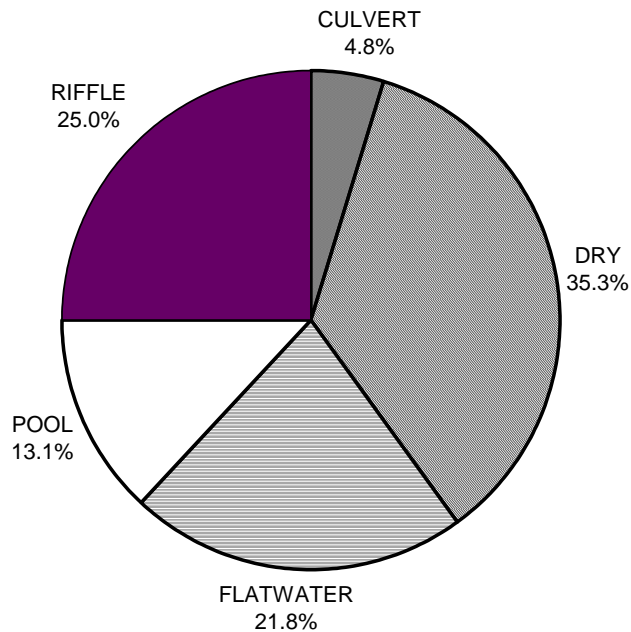
**MARIA YGNACIO CREEK 2009
HABITAT TYPES BY PERCENT TOTAL LENGTH**



GRAPH 5

Graph 6: East Fork Maria Ygnacio, Habitat Types by Percent Total Length

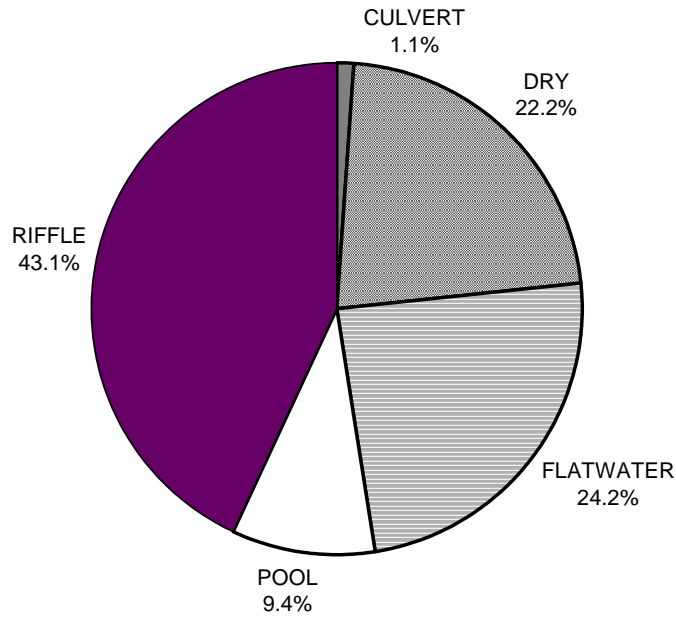
**EAST FORK MARIA YGNACIO CREEK 2009
HABITAT TYPES BY PERCENT TOTAL LENGTH**



GRAPH 6

Graph 7: San Antonio Creek, Habitat Types by Percent Total Length

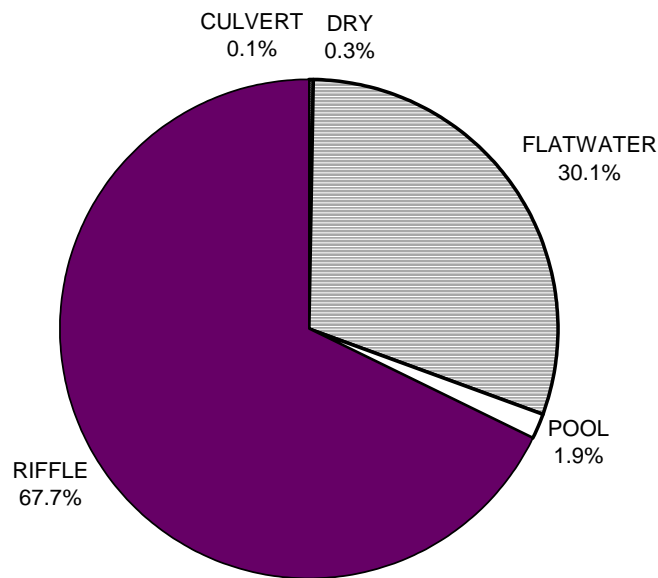
**SAN ANTONIO CREEK 2009
HABITAT TYPES BY PERCENT TOTAL LENGTH**



GRAPH 7

Graph 8: East Fork San Antonio, Habitat Types by Percent Total Length

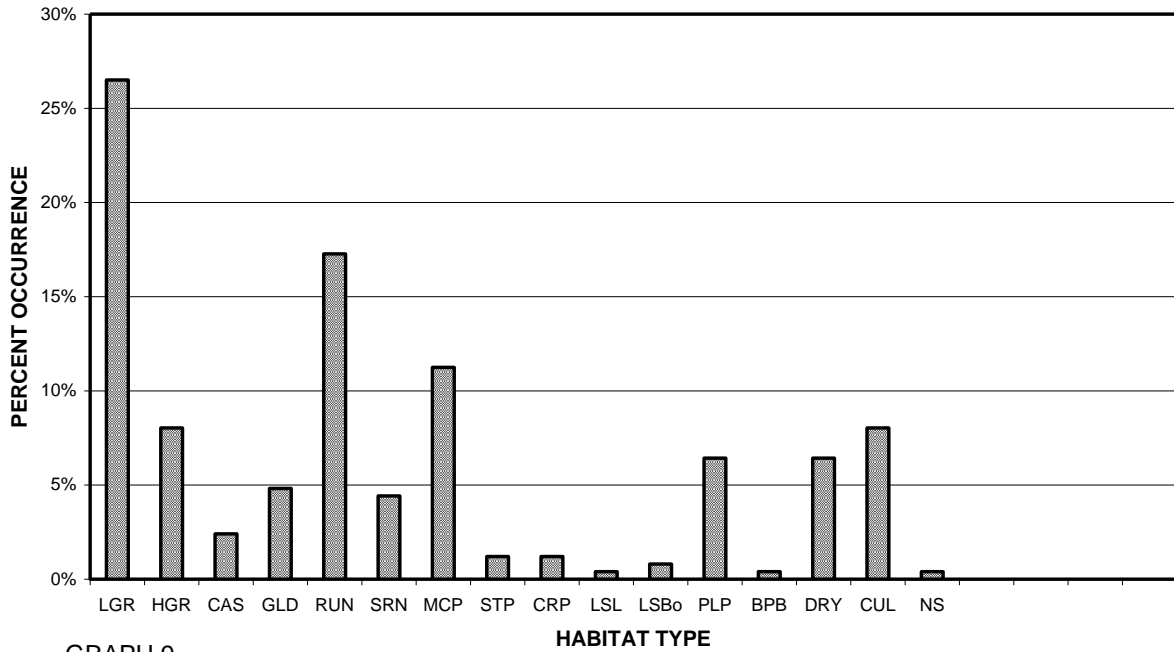
**EAST FORK SAN ANTONIO CREEK 2009
HABITAT TYPES BY PERCENT TOTAL LENGTH**



GRAPH 2

Graph 9: Maria Ygnacio Creek, Habitat Types by Percent Occurrence

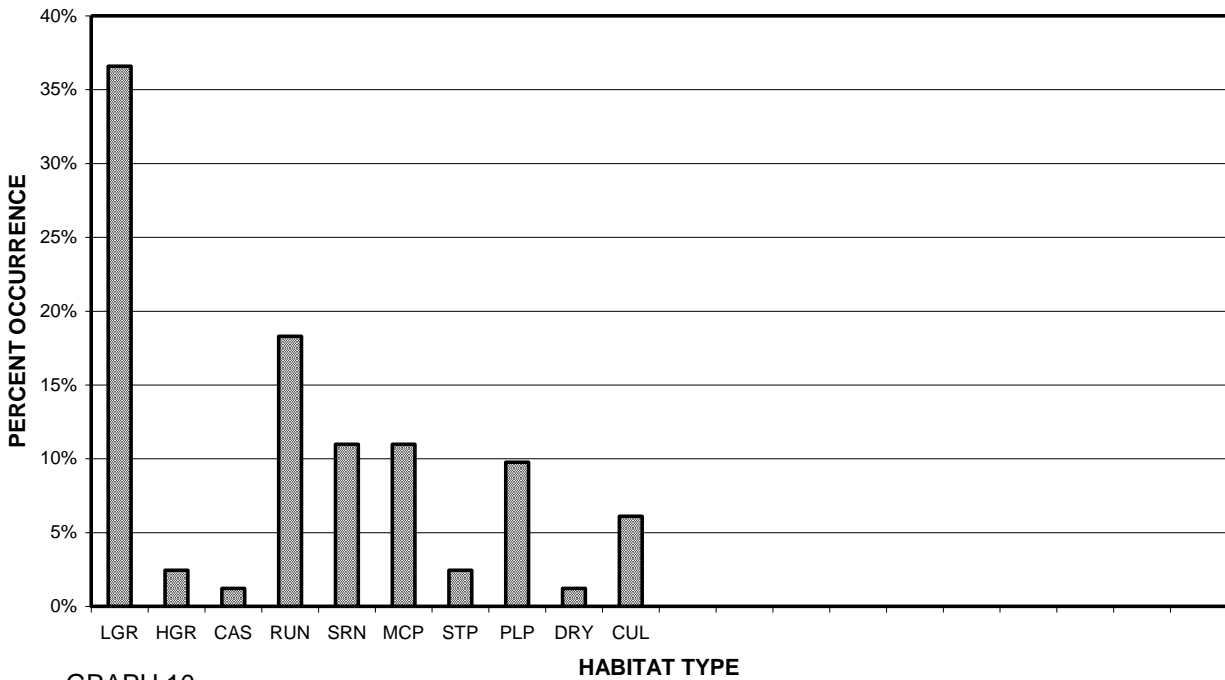
**MARIA YGNACIO CREEK 2009
 HABITAT TYPES BY PERCENT OCCURRENCE**



GRAPH 9

Graph 10: East Fork Maria Ygnacio, Habitat Types by Percent Occurrence

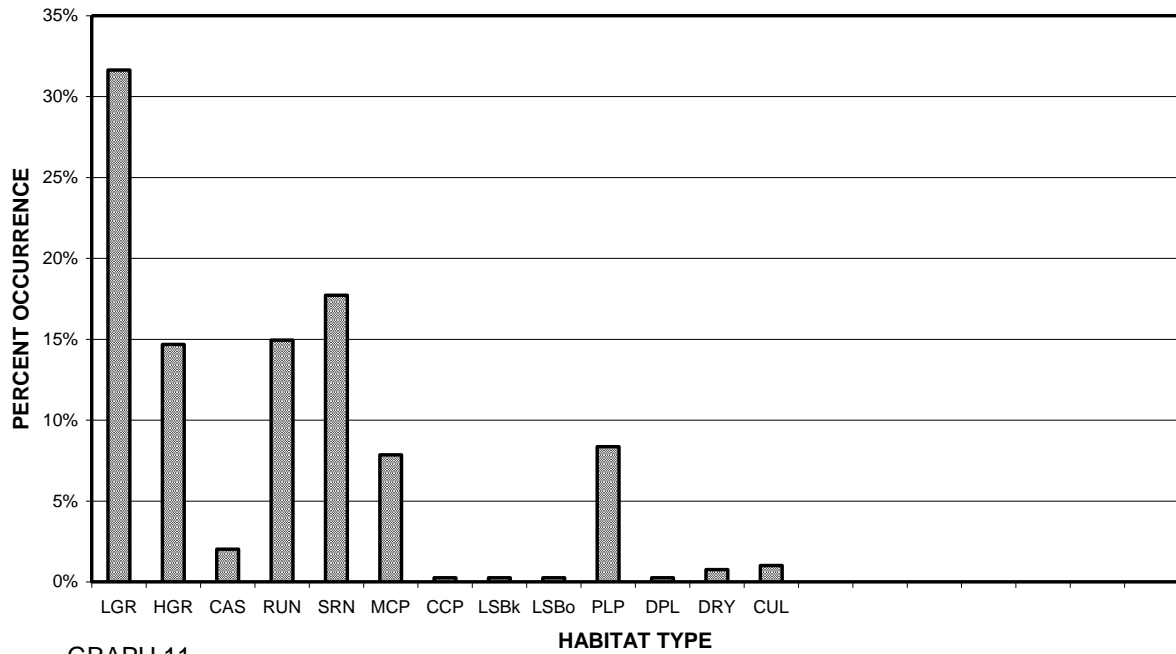
**EAST FORK MARIA YGNACIO CREEK 2009
 HABITAT TYPES BY PERCENT OCCURRENCE**



GRAPH 10

Graph 11: San Antonio Creek, Habitat Types by Percent Occurrence

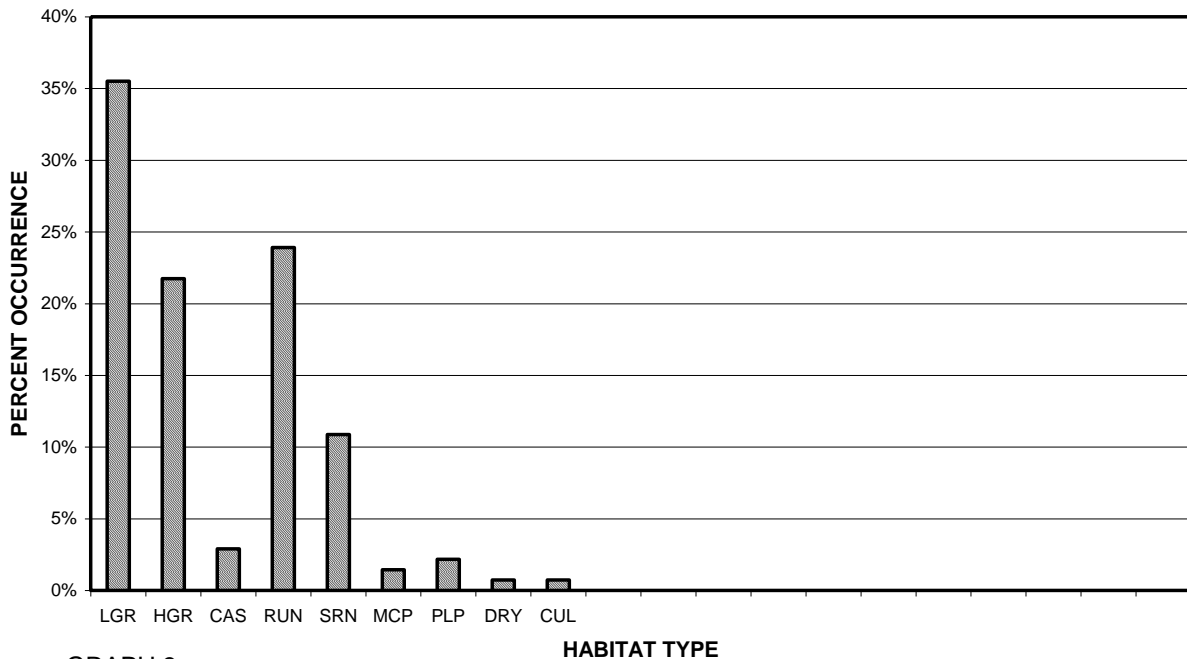
**SAN ANTONIO CREEK 2009
 HABITAT TYPES BY PERCENT OCCURRENCE**



GRAPH 11

Graph 12: East Fork San Antonio, Habitat Types by Percent Occurrence

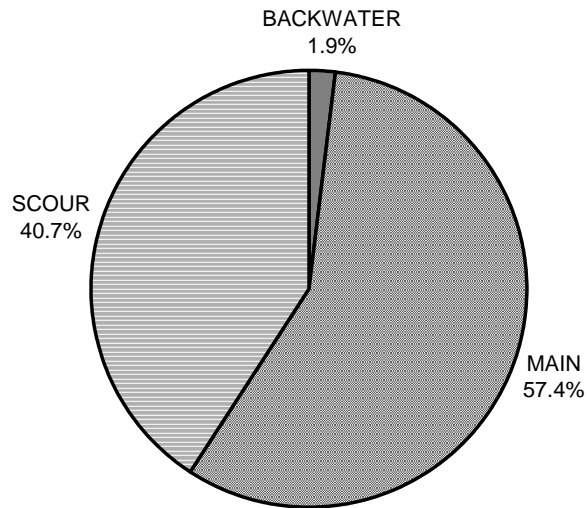
**EAST FORK SAN ANTONIO CREEK 2009
 HABITAT TYPES BY PERCENT OCCURRENCE**



GRAPH 3

Graph 13: Maria Ygnacio Creek, Pool Types by Percent Occurrence

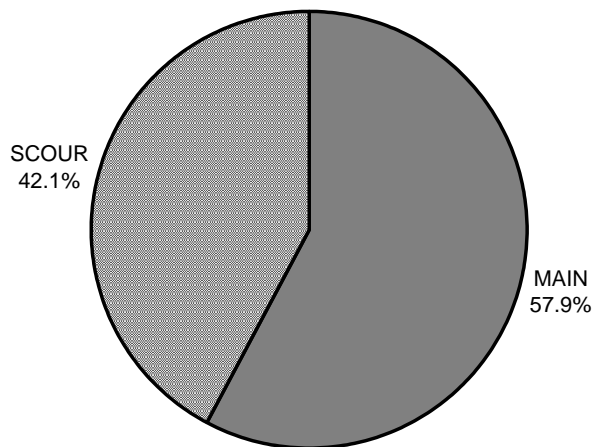
**MARIA YGNACIO CREEK 2009
POOL TYPES BY PERCENT OCCURRENCE**



GRAPH 13

Graph 14: East Fork Maria Ygnacio, Pool Types by Percent Occurrence

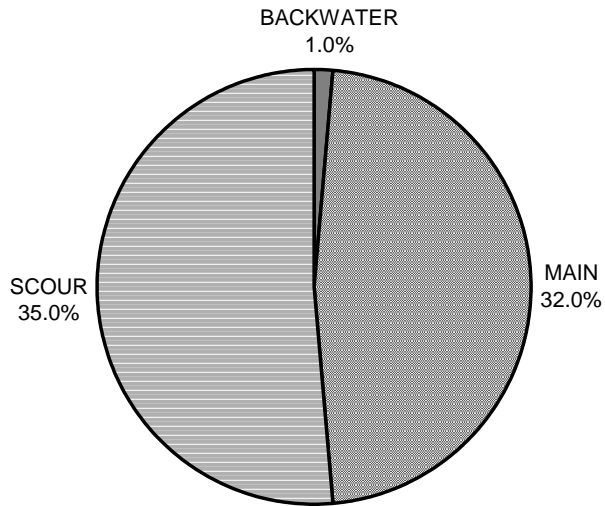
**EAST FORK MARIA YGNACIO CREEK 2009
POOL TYPES BY PERCENT OCCURRENCE**



GRAPH 14

Graph 15: San Antonio Creek, Pool Types by Percent Occurrence

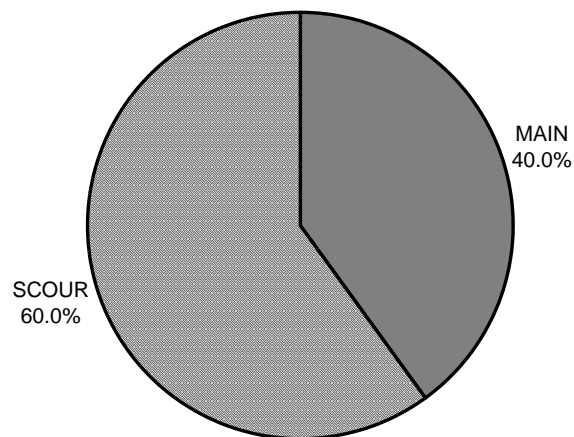
**SAN ANTONIO CREEK 2009
POOL TYPES BY PERCENT OCCURRENCE**



GRAPH 15

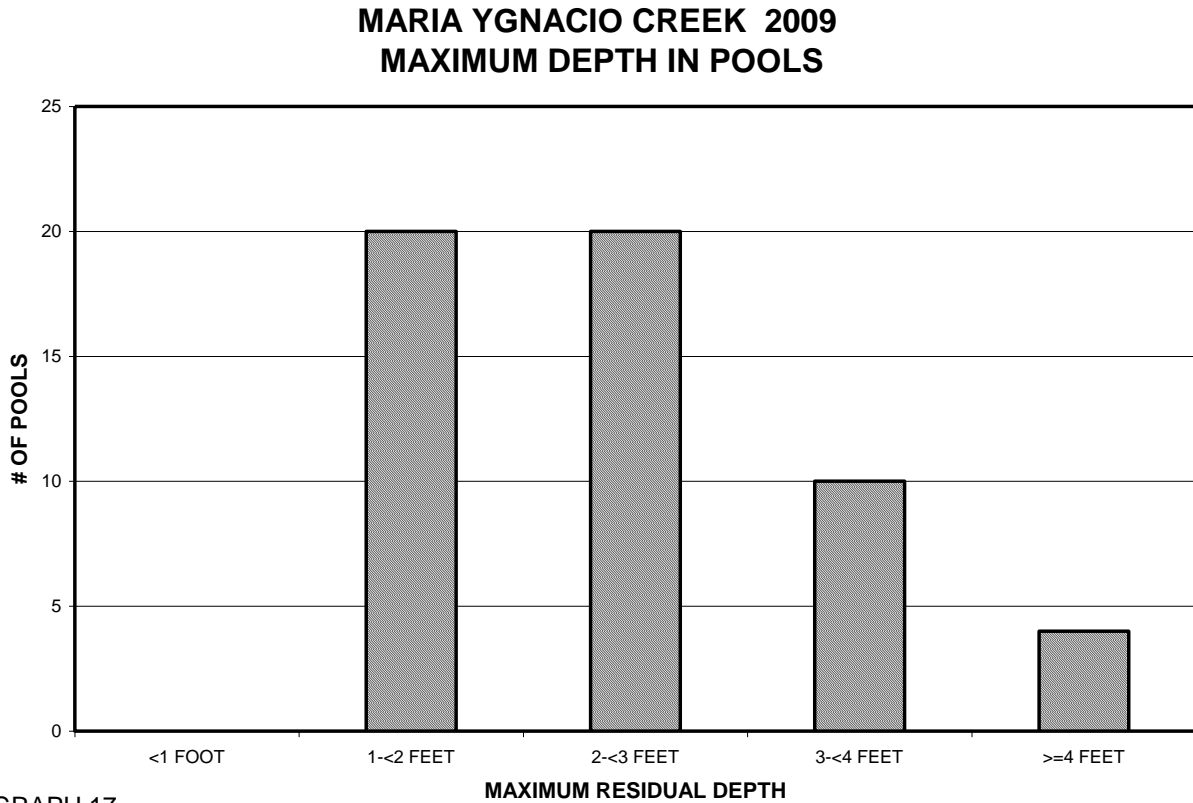
Graph 16: East Fork San Antonio, Pool Types by Percent Occurrence

**EAST FORK SAN ANTONIO CREEK 2009
POOL TYPES BY PERCENT OCCURRENCE**



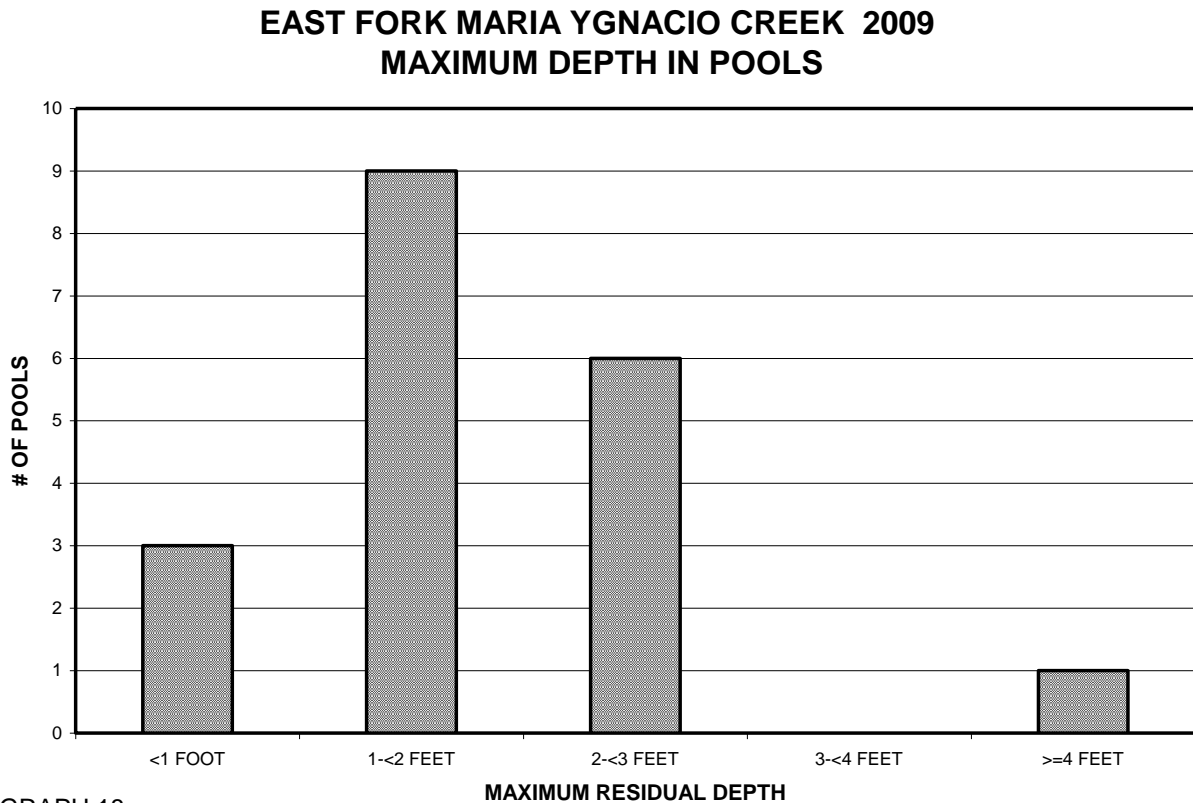
GRAPH 16

Graph 17: Maria Ygnacio Creek, Maximum Depth in Pools



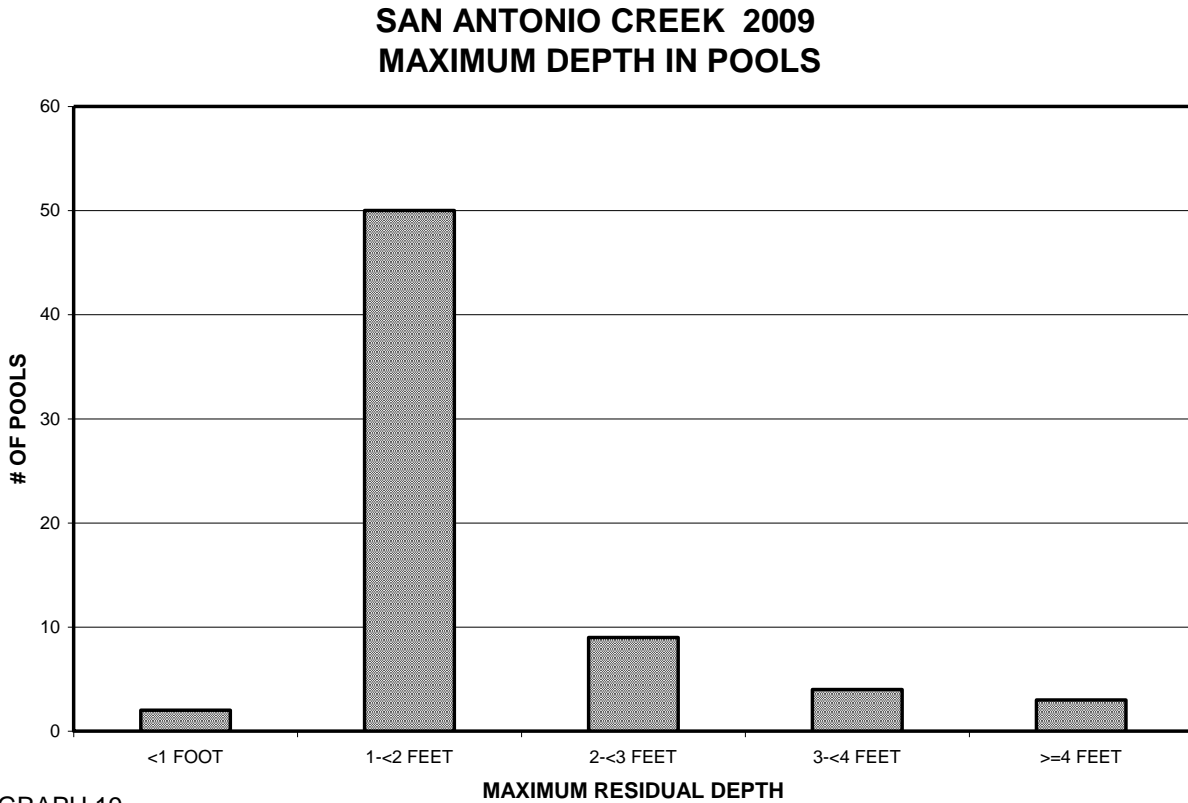
GRAPH 17

Graph 18: East Fork Maria Ygnacio, Maximum Depth in Pools



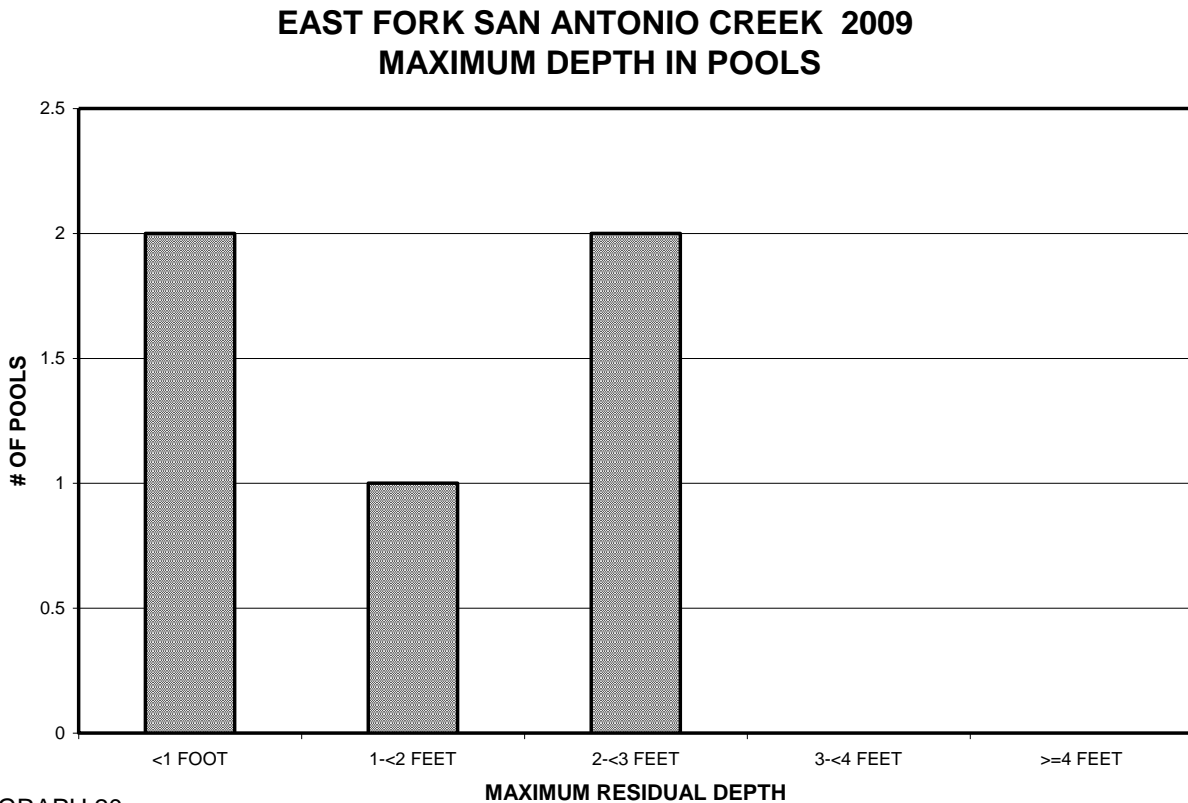
GRAPH 18

Graph 19: San Antonio Creek, Maximum Depth in Pools



GRAPH 19

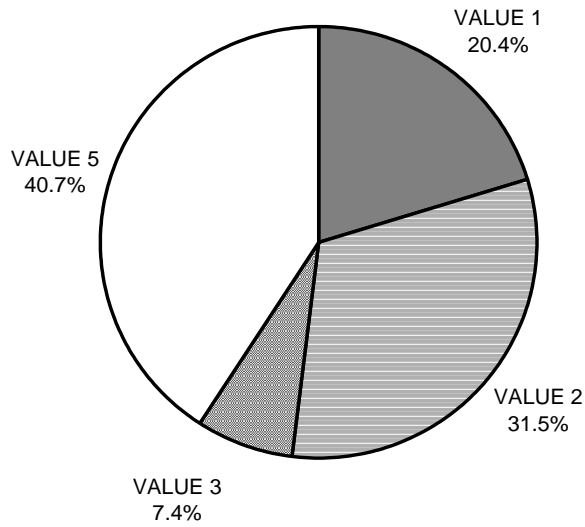
Graph 20: East Fork San Antonio, Maximum Depth in Pools



GRAPH 20

Graph 21: Maria Ygnacio Creek, Percent Embeddedness

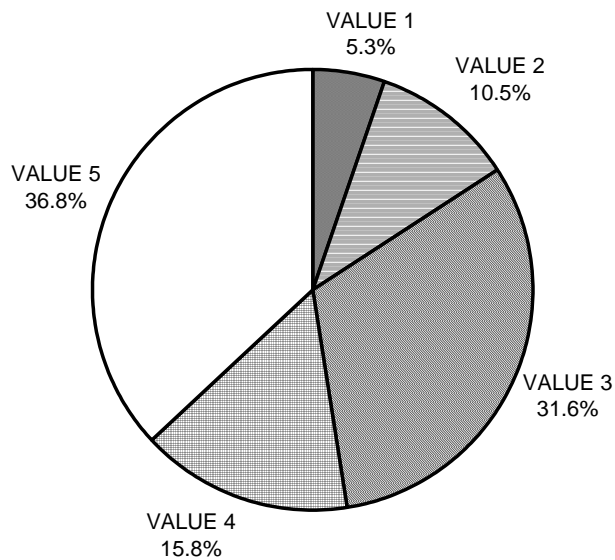
**MARIA YGNACIO CREEK 2009
PERCENT EMBEDDEDNESS**



GRAPH 21

Graph 22: East Fork Maria Ygnacio, Percent Embeddedness

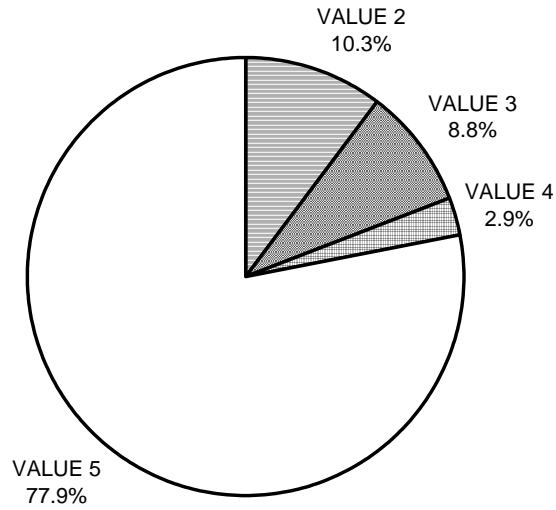
**EAST FORK MARIA YGNACIO CREEK 2009
PERCENT EMBEDDEDNESS**



GRAPH 22

Graph 23: San Antonio Creek, Percent Embeddedness

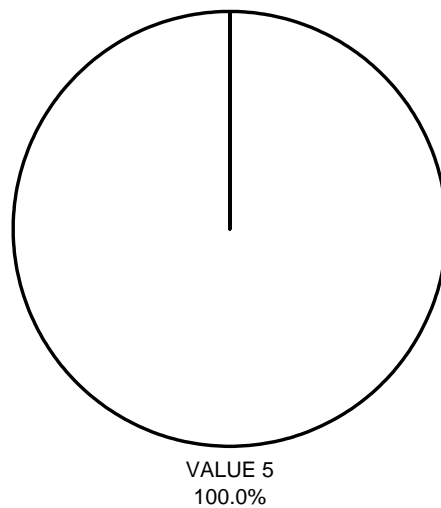
**SAN ANTONIO CREEK 2009
PERCENT EMBEDDEDNESS**



GRAPH 23

Graph 24: East Fork San Antonio, Percent Embeddedness

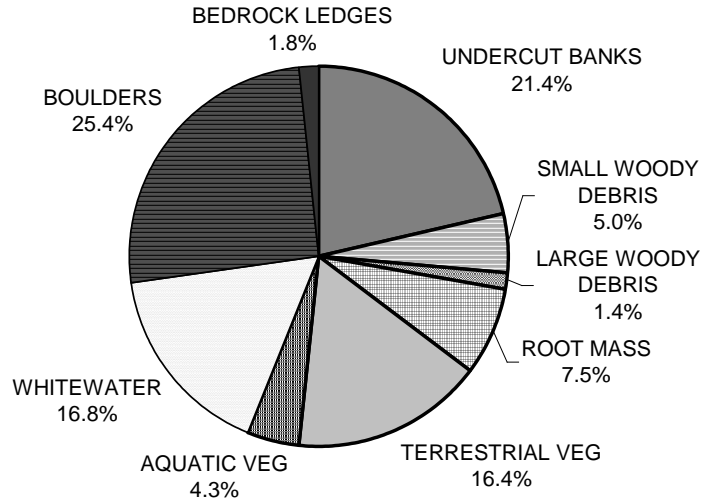
**EAST FORK SAN ANTONIO CREEK 2009
PERCENT EMBEDDEDNESS**



GRAPH 24

Graph 25: Maria Ygnacio Creek, Mean Percent Cover Types in Pools

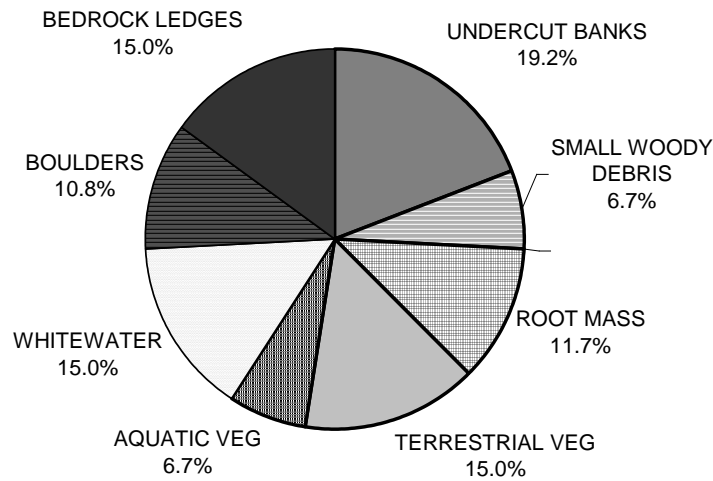
**MARIA YGNACIO CREEK 2009
MEAN PERCENT COVER TYPES IN POOLS**



GRAPH 25

Graph 26: East Fork Maria Ygnacio Mean Percent Cover Types in Pools

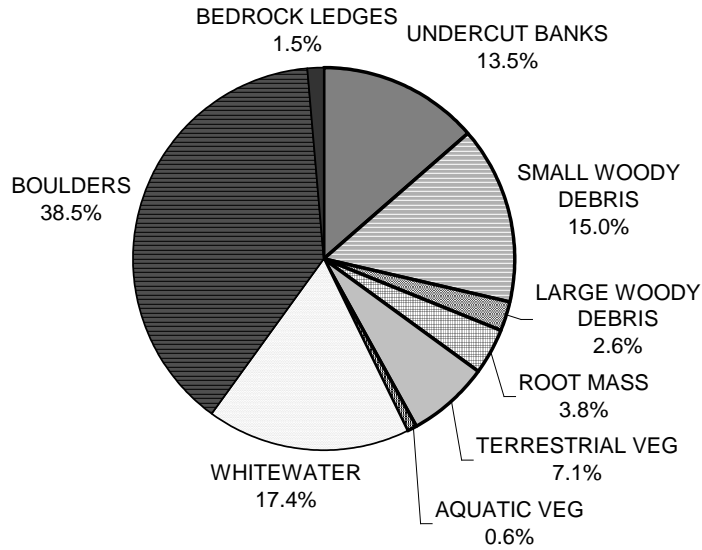
**EAST FORK MARIA YGNACIO CREEK 2009
MEAN PERCENT COVER TYPES IN POOLS**



GRAPH 26

Graph 27: San Antonio Creek, Mean Percent Cover Types in Pools

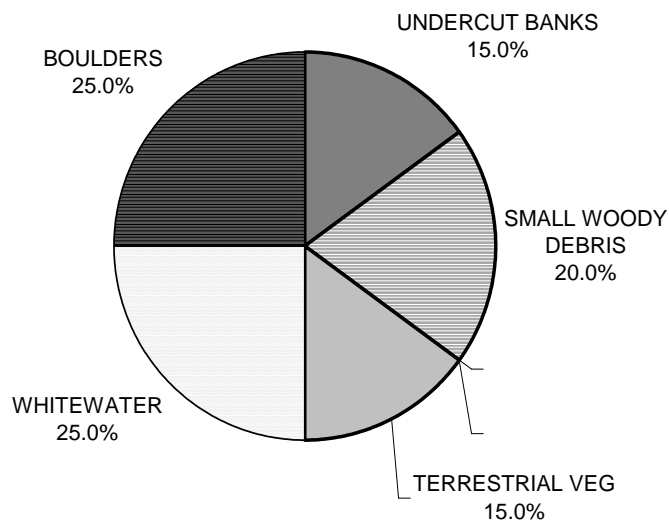
**SAN ANTONIO CREEK 2009
MEAN PERCENT COVER TYPES IN POOLS**



GRAPH 27

Graph 28: East Fork San Antonio, Mean Percent Cover Types in Pools

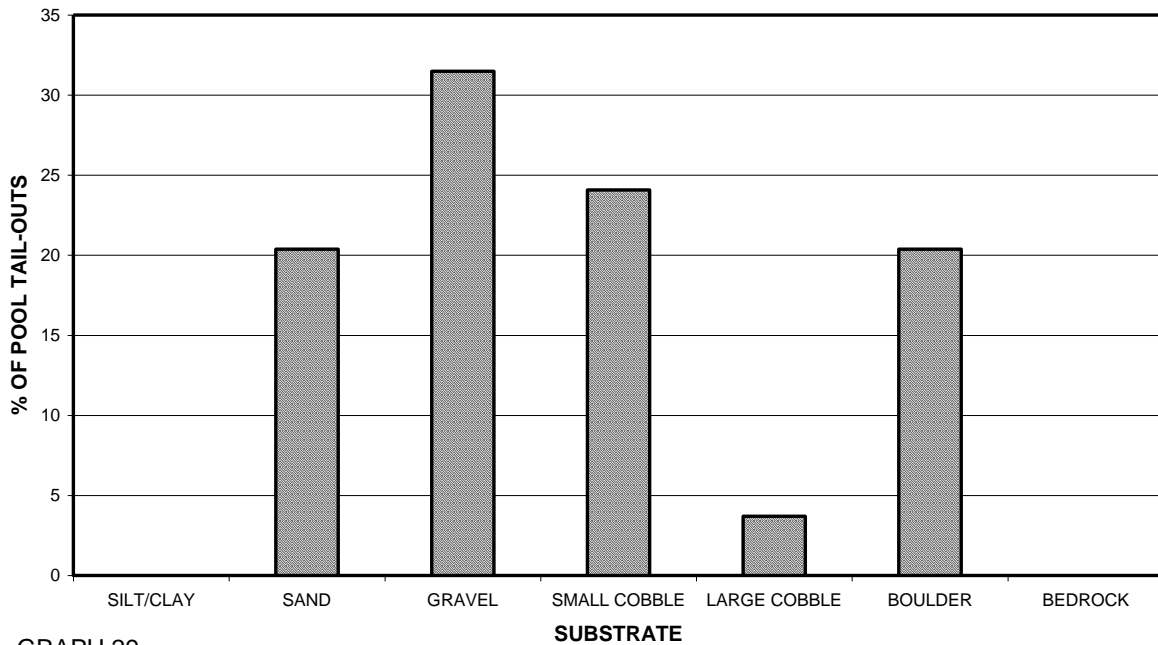
**EAST FORK SAN ANTONIO CREEK 2009
MEAN PERCENT COVER TYPES IN POOLS**



GRAPH 28

Graph 29: Maria Ygnacio Creek, Substrate Composition in Pool Tail-Outs

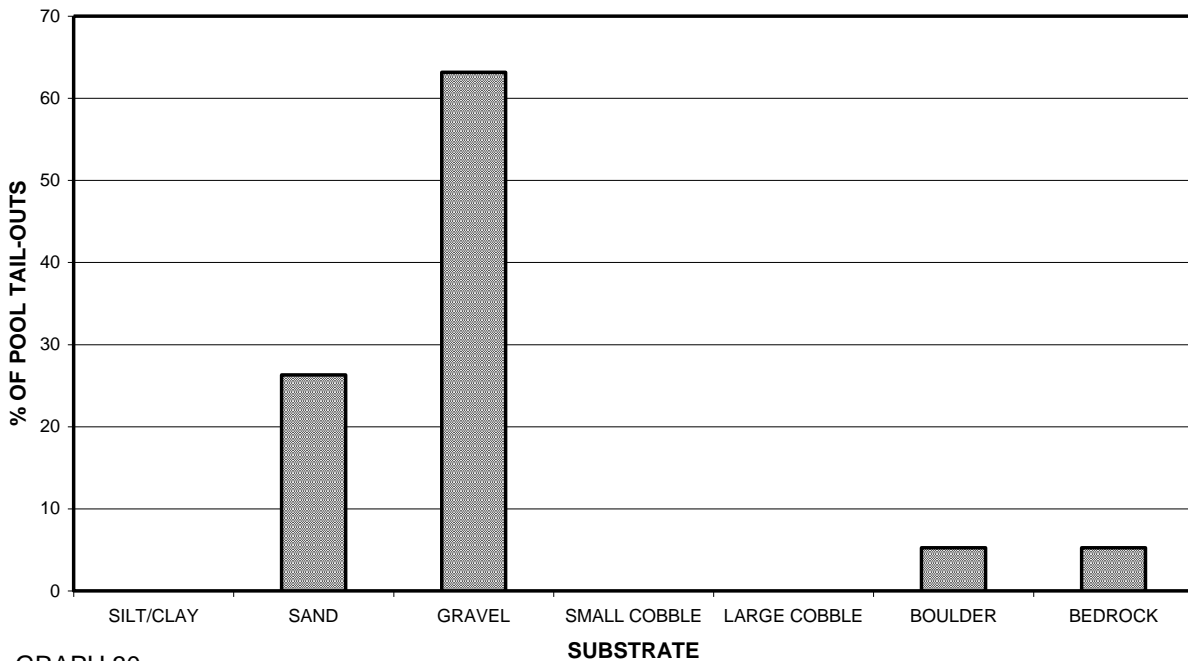
**MARIA YGNACIO CREEK 2009
SUBSTRATE COMPOSITION IN POOL TAIL-OUTS**



GRAPH 29

Graph 30: East Fork Maria Ygnacio, Substrate Composition in Pool Tail-Outs

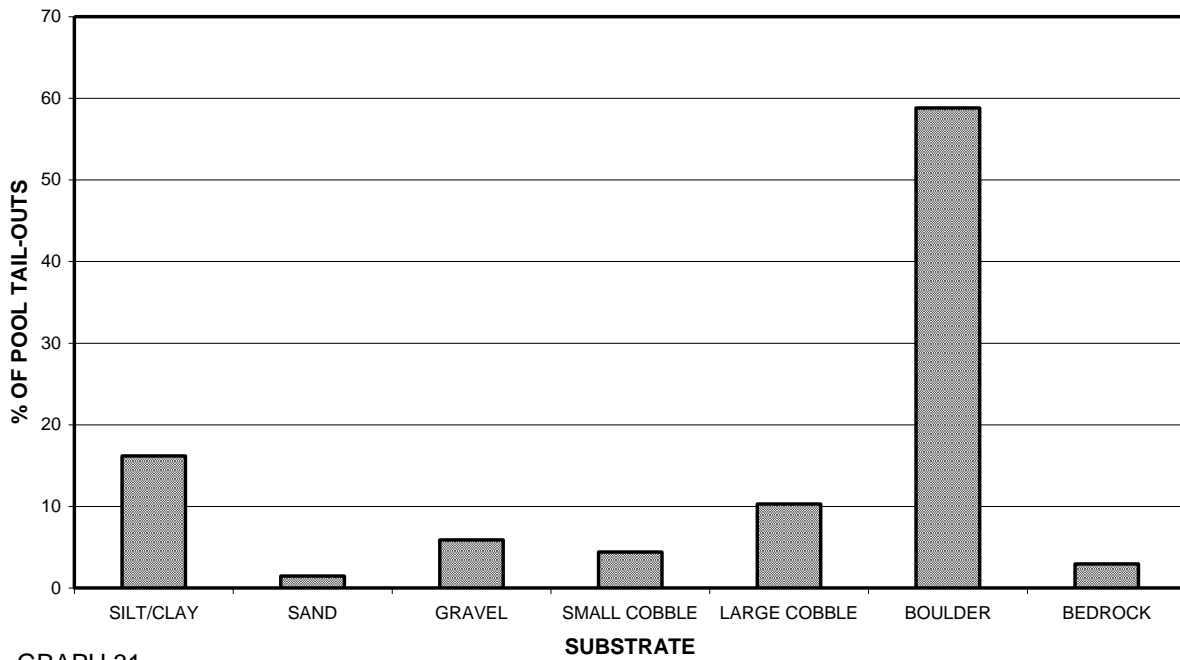
**EAST FORK MARIA YGNACIO CREEK 2009
SUBSTRATE COMPOSITION IN POOL TAIL-OUTS**



GRAPH 30

Graph 31: San Antonio Creek, Substrate Composition in Pool Tail-Outs

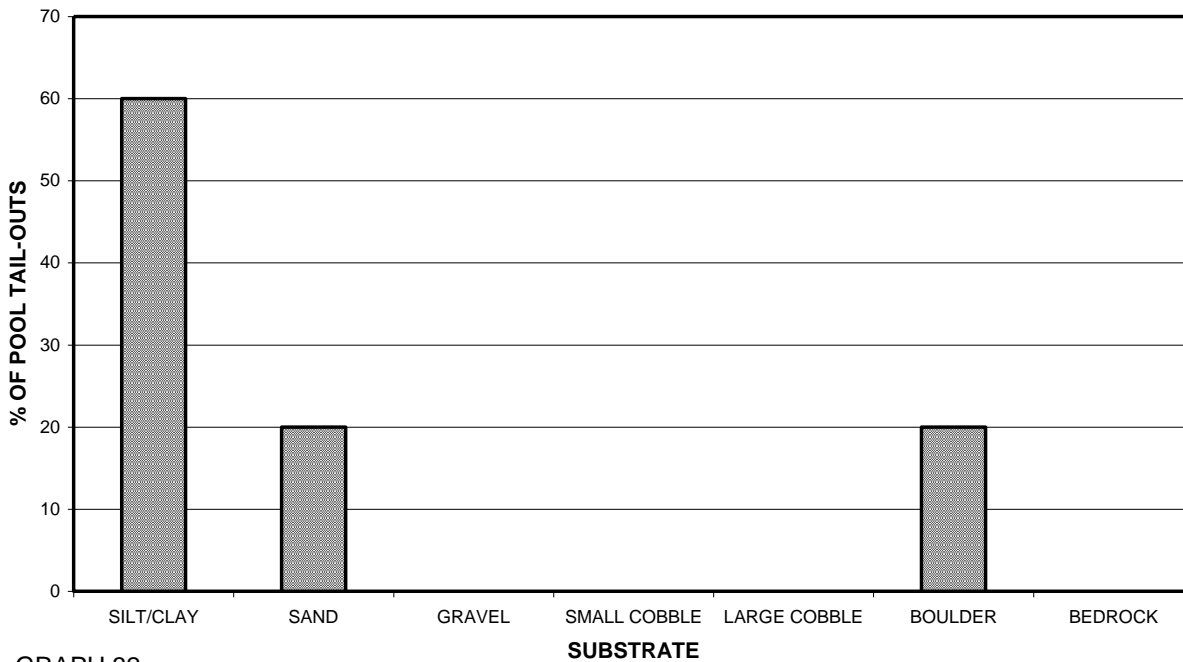
**SAN ANTONIO CREEK 2009
SUBSTRATE COMPOSITION IN POOL TAIL-OUTS**



GRAPH 31

Graph 32: East Fork San Antonio, Substrate Composition in Pool Tail-Outs

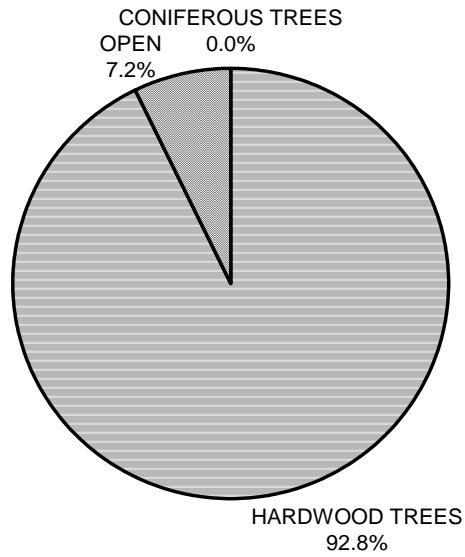
**EAST FORK SAN ANTONIO 2009
SUBSTRATE COMPOSITION IN POOL TAIL-OUTS**



GRAPH 32

Graph 33: Maria Ygnacio Creek, Mean Percent Canopy

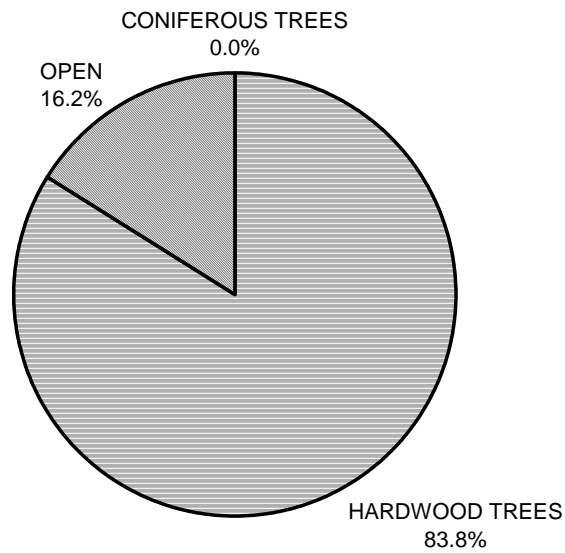
**MARIA YGNACIO CREEK 2009
MEAN PERCENT CANOPY**



GRAPH 33

Graph 34: East Fork Maria Ygnacio, Mean Percent Canopy

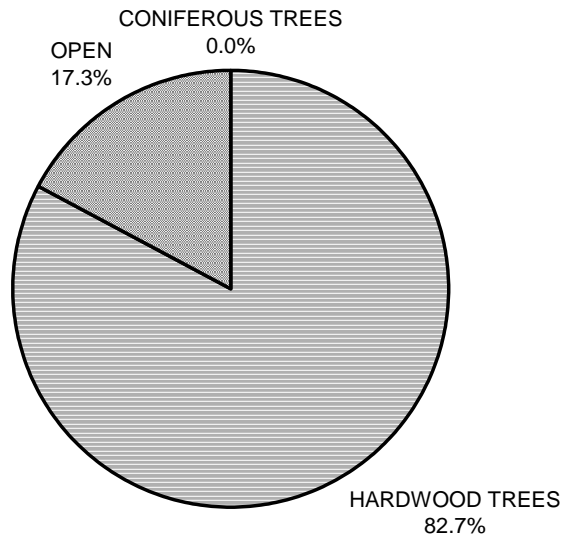
**EAST FORK MARIA YGNACIO CREEK 2009
MEAN PERCENT CANOPY**



GRAPH 34

Graph 35: San Antonio Creek, Mean Percent Canopy

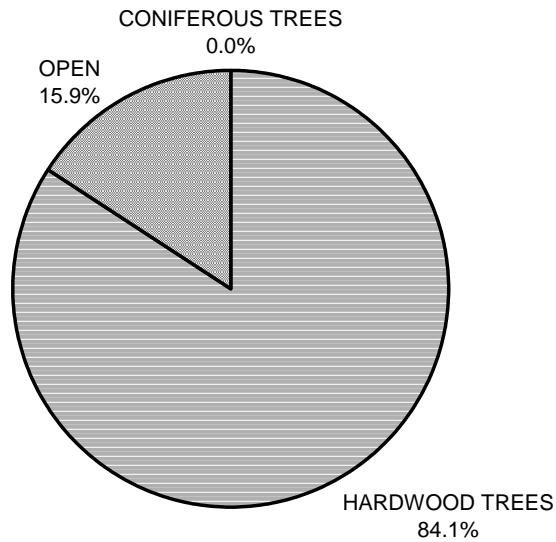
**SAN ANTONIO CREEK 2009
MEAN PERCENT CANOPY**



GRAPH 35

Graph 36: East Fork San Antonio, Mean Percent Canopy

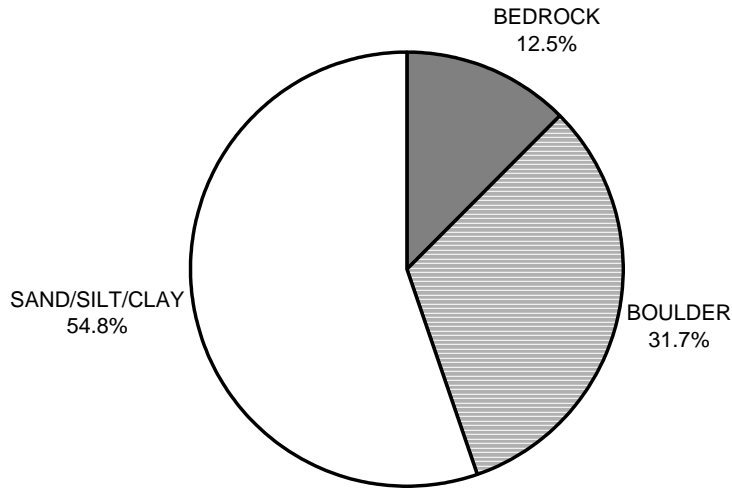
**EAST FORK SAN ANTONIO CREEK 2009
MEAN PERCENT CANOPY**



GRAPH 36

Graph 37: Maria Ygnacio Creek, Dominant Bank Composition in Survey Reach

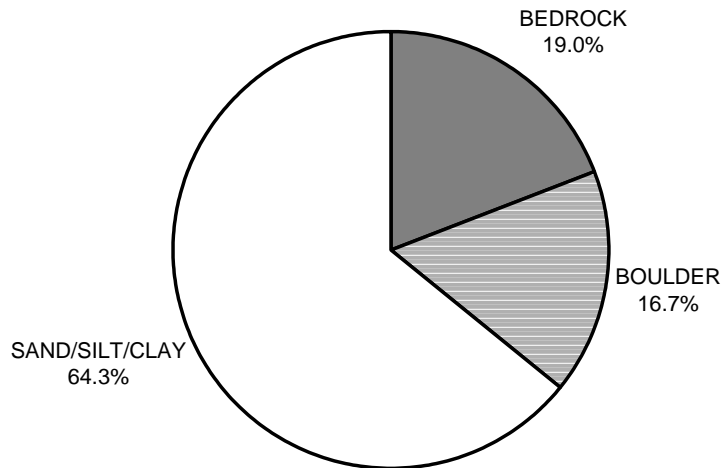
**MARIA YGNACIO CREEK 2009
DOMINANT BANK COMPOSITION IN SURVEY REACH**



GRAPH 37

Graph 38: East Fork Maria Ygnacio, Dominant Bank Composition in Survey Reach

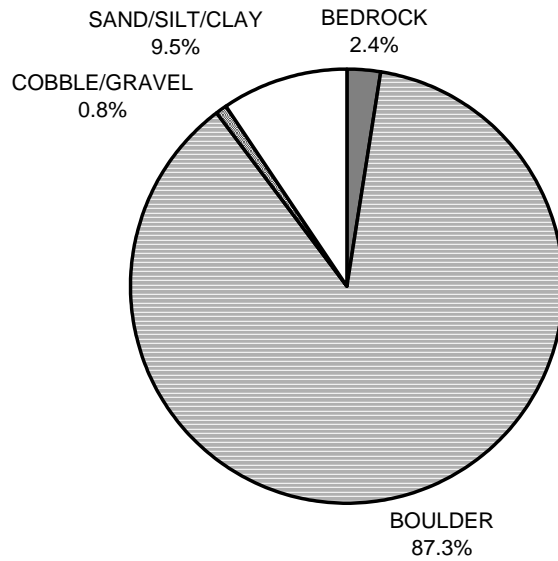
**EAST FORK MARIA YGNACIO CREEK 2009
DOMINANT BANK COMPOSITION IN SURVEY REACH**



GRAPH 38

Graph 39: San Antonio Creek, Dominant Bank Composition in Survey Reach

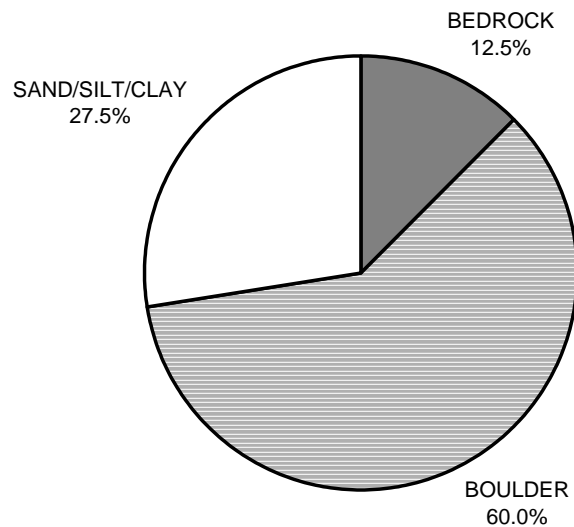
**SAN ANTONIO CREEK 2009
DOMINANT BANK COMPOSITION IN SURVEY REACH**



GRAPH 39

Graph 40: East Fork San Antonio, Dominant Bank Composition in Survey Reach

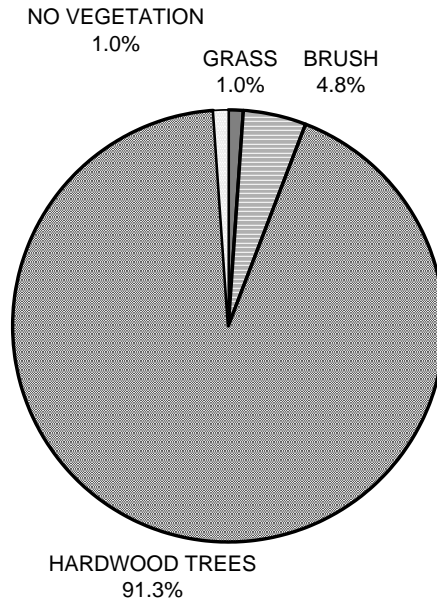
**EAST FORK SAN ANTONIO CREEK 2009
DOMINANT BANK COMPOSITION IN SURVEY REACH**



GRAPH 40

Graph 41: Maria Ygnacio Creek, Dominant Bank Vegetation in Survey Reach

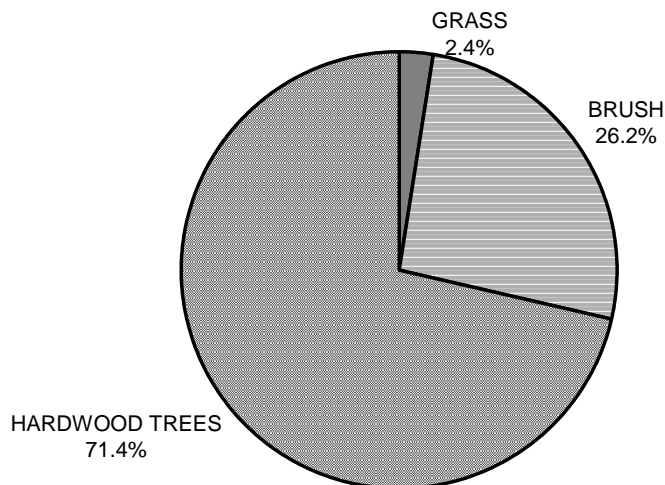
**MARIA YGNACIO CREEK 2009
DOMINANT BANK VEGETATION IN SURVEY REACH**



GRAPH 11

Graph 42: East Fork Maria Ygnacio, Dominant Bank Vegetation in Survey Reach

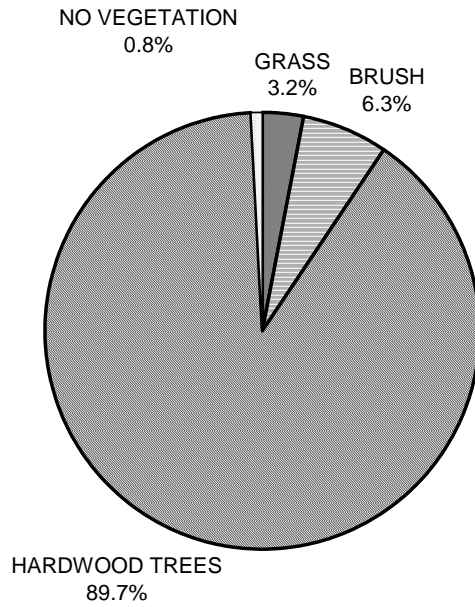
**EAST FORK MARIA YGNACIO CREEK 2009
DOMINANT BANK VEGETATION IN SURVEY REACH**



GRAPH 42

Graph 43: San Antonio Creek, Dominant Bank Vegetation in Survey Reach

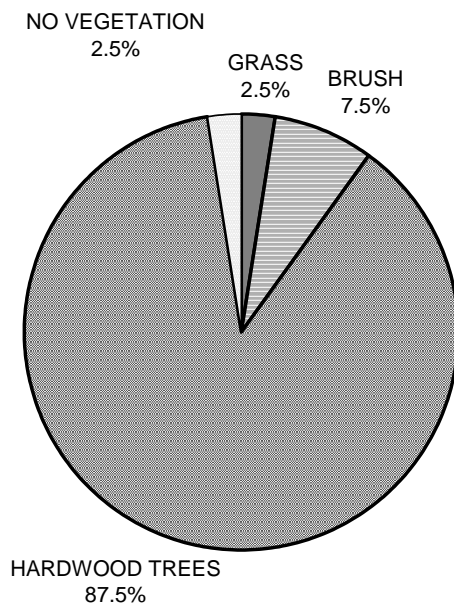
**SAN ANTONIO CREEK 2009
DOMINANT BANK VEGETATION IN SURVEY REACH**



GRAPH 43

Graph 44: East Fork San Antonio, Dominant Bank Vegetation in Survey Reach

**EAST FORK SAN ANTONIO CREEK 2009
DOMINANT BANK VEGETATION IN SURVEY REACH**



GRAPH 44