

Appendix 3.1 - Soil Categories within Local Watersheds

SanGIS update 2020: figures calculated using ArcGIS Pro

Watershed	Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severely Eroded Acres	% Severely Eroded Area
El Capitan	Acid igneous rock land	3,166	2.6	0	0.0	0	0.0
	Anderson very gravelly sandy loam	34	0.0	0	0.0	0	0.0
	Bancas stony loam	1,410	1.2	0	0.0	0	0.0
	Boomer loam	1,542	1.3	0	0.0	0	0.0
	Boomer stony loam	8,851	7.4	0	0.0	0	0.0
	Bosanko stony clay	224	0.2	0	0.0	0	0.0
	Calpine coarse sandy loam	175	0.1	33	0.0	0	0.0
	Cieneba coarse sandy loam	1,188	1.0	1,188	1.0	0	0.0
	Cieneba rocky coarse sandy loam	2,530	2.1	2,530	2.1	0	0.0
	Cieneba very rocky coarse sandy loam	9,082	7.5	0	0.0	0	0.0
	Cieneba-Fallbrook rocky sandy loams	26,928	22.4	26,928	22.4	0	0.0
	Crouch coarse sandy loam	2,159	1.8	0	0.0	0	0.0
	Crouch rocky coarse sandy loam	3,736	3.1	0	0.0	0	0.0
	Crouch stony fine sandy loam	211	0.2	0	0.0	0	0.0
	Dams	2	0.0	0	0.0	0	0.0
	Fallbrook rocky sandy loam	1,661	1.4	1,256	1.0	0	0.0
	Fallbrook sandy loam	5,416	4.5	4,933	4.1	370	0.3
	Fallbrook-Vista sandy loams	124	0.1	0	0.0	0	0.0
	Greenfield sandy loam	235	0.2	0	0.0	0	0.0
	Holland fine sandy loam	3,477	2.9	0	0.0	0	0.0
	Holland stony fine sandy loam	10,180	8.5	0	0.0	0	0.0
	La Posta loamy coarse sand	33	0.0	33	0.0	0	0.0
	La Posta rocky loamy coarse sand	1,932	1.6	0	0.0	0	0.0
	Las Posas fine sandy loam	81	0.1	81	0.1	0	0.0
	Las Posas stony fine sandy loam	5,496	4.6	200	0.2	0	0.0
	Loamy alluvial land	1,804	1.5	0	0.0	0	0.0
	Metamorphic rock land	368	0.3	0	0.0	0	0.0
	No Digital Data Available	5,020	4.2	0	0.0	0	0.0
	Placentia sandy loam	92	0.1	0	0.0	0	0.0
	Ramona gravelly sandy loam	97	0.1	0	0.0	0	0.0
	Ramona sandy loam	604	0.5	302	0.3	0	0.0
	Reiff fine sandy loam	205	0.2	0	0.0	0	0.0
	Riverwash	581	0.5	0	0.0	0	0.0
	Sheephead rocky fine sandy loam	14,385	12.0	14,385	12.0	0	0.0
	Steep gullied land	777	0.6	0	0.0	0	0.0
	Stony land	93	0.1	0	0.0	0	0.0
	Tollhouse rocky coarse sandy loam	3,719	3.1	0	0.0	0	0.0
	Visalia sandy loam	524	0.4	0	0.0	0	0.0
	Vista coarse sandy loam	72	0.1	0	0.0	0	0.0
	Vista rocky coarse sandy loam	158	0.1	0	0.0	0	0.0
	Water	1,931	1.6	0	0.0	0	0.0
	Wyman loam	26	0.0	0	0.0	0	0.0

Watershed	Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severely Eroded Acres	% Severely Eroded Area
Murray	Acid igneous rock land	268	10.4	0	0.0	0	0.0
	Bosanko clay	9	0.4	0	0.0	0	0.0
	Cieneba very rocky coarse sandy loam	87	3.4	86	3.3	0	0.0
	Diablo clay	13	0.5	0	0.0	0	0.0
	Diablo-Urban land complex	804	31.2	0	0.0	0	0.0
	Fallbrook rocky sandy loam	133	5.2	0	0.0	0	0.0
	Friant rocky fine sandy loam	23	0.9	0	0.0	0	0.0
	Linne clay loam	38	1.5	0	0.0	0	0.0
	Ramona sandy loam	5	0.2	0	0.0	0	0.0
	Redding cobbly loam	36	1.4	0	0.0	0	0.0
	Redding-Urban land complex	194	7.6	0	0.0	0	0.0
	Stony land	2	0.1	0	0.0	0	0.0
	Tujunga sand	738	28.7	0	0.0	0	0.0
	Water	136	5.3	0	0.0	0	0.0
San Vicente	Acid igneous rock land	5,391	11.3	0	0.0	0	0.0
	Anderson very gravelly sandy loam	565	1.2	0	0.0	0	0.0
	Arlington coarse sandy loam	318	0.7	0	0.0	0	0.0
	Bonsall-Fallbrook sandy loams	1	0.0	0	0.0	0	0.0
	Bosanko clay	13	0.0	0	0.0	0	0.0
	Cieneba coarse sandy loam	226	0.5	226	0.5	0	0.0
	Cieneba rocky coarse sandy loam	4,781	10.0	4,781	10.0	0	0.0
	Cieneba very rocky coarse sandy loam	11,066	23.2	0	0.0	0	0.0
	Cieneba-Fallbrook rocky sandy loams	2,333	4.9	2,333	4.9	0	0.0
	Clayey alluvial land	113	0.2	0	0.0	0	0.0
	Escondido very fine sandy loam	407	0.9	309	0.6	0	0.0
	Fallbrook rocky sandy loam	384	0.8	0	0.0	0	0.0
	Fallbrook sandy loam	3,125	6.6	2,496	5.2	393	0.8
	Fallbrook-Vista sandy loams	291	0.6	0	0.0	0	0.0
	Friant fine sandy loam	189	0.4	0	0.0	0	0.0
	Friant rocky fine sandy loam	3,618	7.6	0	0.0	0	0.0
	Greenfield sandy loam	1,493	3.1	0	0.0	0	0.0
	Holland fine sandy loam	210	0.4	0	0.0	0	0.0
	Holland stony fine sandy loam	39	0.1	0	0.0	0	0.0
	La Posta rocky loamy coarse sand	477	1.0	0	0.0	0	0.0
	Las Posas fine sandy loam	83	0.2	36	0.1	0	0.0
	Las Posas stony fine sandy loam	424	0.9	0	0.0	0	0.0
	Loamy alluvial land	65	0.1	0	0.0	0	0.0
	Metamorphic rock land	39	0.1	0	0.0	0	0.0
	Olivenhain cobbly loam	3,428	7.2	0	0.0	0	0.0
	Placentia sandy loam	308	0.6	34	0.1	0	0.0
	Ramona sandy loam	319	0.7	202	0.4	0	0.0
	Riverwash	89	0.2	0	0.0	0	0.0
	Tollhouse rocky coarse sandy loam	822	1.7	0	0.0	0	0.0
	Visalia sandy loam	2,595	5.4	0	0.0	0	0.0
	Vista coarse sandy loam	507	1.1	11	0.0	0	0.0
	Vista rocky coarse sandy loam	2,843	6.0	0	0.0	0	0.0
	Water	1,005	2.1	0	0.0	0	0.0
	Wyman loam	57	0.1	0	0.0	0	0.0

Watershed	Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severely Eroded Acres	% Severely Eroded Area
Sutherland	Acid igneous rock land	2,702	7.8	0	0.0	0	0.0
	Anderson very gravelly sandy loam	48	0.1	0	0.0	0	0.0
	Bancas stony loam	73	0.2	0	0.0	0	0.0
	Calpine coarse sandy loam	20	0.1	0	0.0	0	0.0
	Cieneba coarse sandy loam	10	0.0	10	0.0	0	0.0
	Cieneba rocky coarse sandy loam	1,727	5.0	1,727	5.0	0	0.0
	Cieneba very rocky coarse sandy loam	529	1.5	0	0.0	0	0.0
	Cieneba-Fallbrook rocky sandy loams	33	0.1	33	0.1	0	0.0
	Clayey alluvial land	36	0.1	0	0.0	0	0.0
	Crouch coarse sandy loam	4,041	11.7	0	0.0	0	0.0
	Crouch rocky coarse sandy loam	4,931	14.3	0	0.0	0	0.0
	Fallbrook rocky sandy loam	421	1.2	348	1.0	0	0.0
	Fallbrook sandy loam	54	0.2	54	0.2	0	0.0
	Greenfield sandy loam	181	0.5	0	0.0	0	0.0
	Holland fine sandy loam	3,258	9.4	0	0.0	0	0.0
	Holland stony fine sandy loam	9,356	27.1	0	0.0	0	0.0
	Las Posas fine sandy loam	232	0.7	222	0.6	0	0.0
	Las Posas stony fine sandy loam	635	1.8	0	0.0	0	0.0
	Loamy alluvial land	495	1.4	0	0.0	0	0.0
	Mottsville loamy coarse sand	121	0.3	0	0.0	0	0.0
	Reiff fine sandy loam	360	1.0	0	0.0	0	0.0
	Riverwash	128	0.4	0	0.0	0	0.0
	Sheephead rocky fine sandy loam	3,693	10.7	3,693	10.7	0	0.0
	Tollhouse rocky coarse sandy loam	605	1.8	0	0.0	0	0.0
	Tujunga sand	169	0.5	0	0.0	0	0.0
	Vista coarse sandy loam	272	0.8	20	0.1	0	0.0
	Vista rocky coarse sandy loam	86	0.2	0	0.0	0	0.0
	Water	336	1.0	0	0.0	0	0.0

Watershed	Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severely Eroded Acres	% Severely Eroded Area
Barrett	Acid igneous rock land	16,016	19.2	0	0.0	0	0.0
	Bancas stony loam	12,673	15.2	1,824	2.2	0	0.0
	Boomer loam	279	0.3	0	0.0	0	0.0
	Boomer stony loam	162	0.2	0	0.0	0	0.0
	Bull Trail sandy loam	468	0.6	0	0.0	0	0.0
	Calpine coarse sandy loam	681	0.8	278	0.3	0	0.0
	Cieneba rocky coarse sandy loam	663	0.8	663	0.8	0	0.0
	Cieneba very rocky coarse sandy loam	1,008	1.2	0	0.0	0	0.0
	Cieneba-Fallbrook rocky sandy loams	3,434	4.1	3,434	4.1	0	0.0
	Crouch coarse sandy loam	3,182	3.8	0	0.0	0	0.0
	Crouch rocky coarse sandy loam	2,364	2.8	0	0.0	0	0.0
	Fallbrook rocky sandy loam	40	0.0	0	0.0	0	0.0
	Fallbrook sandy loam	1,052	1.3	1,052	1.3	0	0.0
	Greenfield sandy loam	127	0.2	0	0.0	0	0.0
	Holland fine sandy loam	101	0.1	0	0.0	0	0.0
	Holland stony fine sandy loam	63	0.1	0	0.0	0	0.0
	La Posta loamy coarse sand	393	0.5	393	0.5	0	0.0
	La Posta rocky loamy coarse sand	9,941	11.9	5,349	6.4	0	0.0
	Las Posas stony fine sandy loam	7,922	9.5	1,039	1.2	0	0.0
	Loamy alluvial land	1,143	1.4	0	0.0	0	0.0
	Metamorphic rock land	516	0.6	0	0.0	0	0.0
	Mottsville loamy coarse sand	1,416	1.7	0	0.0	0	0.0
	No Digital Data Available	1,331	1.6	0	0.0	0	0.0
	Placentia sandy loam	12	0.0	0	0.0	0	0.0
	Ramona gravelly sandy loam	285	0.3	0	0.0	0	0.0
	Reiff fine sandy loam	216	0.3	0	0.0	0	0.0
	Riverwash	280	0.3	0	0.0	0	0.0
	Sheephead rocky fine sandy loam	8,512	10.2	8,512	10.2	0	0.0
	Steep gullied land	74	0.1	0	0.0	0	0.0
	Tollhouse rocky coarse sandy loam	4,675	5.6	4,114	4.9	0	0.0
	Visalia sandy loam	30	0.0	0	0.0	0	0.0
	Vista coarse sandy loam	782	0.9	658	0.8	0	0.0
	Vista rocky coarse sandy loam	2,617	3.1	0	0.0	0	0.0
	Water	801	1.0	0	0.0	0	0.0

Watershed	Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severely Eroded Acres	% Severely Eroded Area
Morena	Acid igneous rock land	9,781	13.3	0	0.0	0	0.0
	Bancas stony loam	18,204	24.8	7,745	10.5	0	0.0
	Calpine coarse sandy loam	1,728	2.3	754	1.0	0	0.0
	Crouch coarse sandy loam	2,057	2.8	0	0.0	0	0.0
	Crouch rocky coarse sandy loam	1,324	1.8	0	0.0	0	0.0
	Holland fine sandy loam	71	0.1	0	0.0	0	0.0
	Holland stony fine sandy loam	274	0.4	0	0.0	0	0.0
	Kitchen Creek loamy coarse sand	325	0.4	37	0.1	0	0.0
	La Posta loamy coarse sand	5,327	7.2	5,254	7.1	0	0.0
	La Posta rocky loamy coarse sand	8,564	11.6	5,191	7.1	0	0.0
	La Posta-Sheephead complex	602	0.8	0	0.0	0	0.0
	Las Flores loamy fine sand	10	0.0	10	0.0	0	0.0
	Las Posas stony fine sandy loam	2,612	3.6	474	0.6	0	0.0
	Loamy alluvial land	995	1.4	0	0.0	0	0.0
	Metamorphic rock land	266	0.4	0	0.0	0	0.0
	Mottsville loamy coarse sand	6,486	8.8	0	0.0	0	0.0
	Reiff fine sandy loam	840	1.1	0	0.0	0	0.0
	Riverwash	355	0.5	0	0.0	0	0.0
	Sheephead rocky fine sandy loam	11,035	15.0	11,035	15.0	0	0.0
	Steep gullied land	17	0.0	0	0.0	0	0.0
	Tollhouse rocky coarse sandy loam	1,230	1.7	744	1.0	0	0.0
	Tujunga sand	44	0.1	0	0.0	0	0.0
	Water	1,396	1.9	0	0.0	0	0.0

Watershed	Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severely Eroded Acres	% Severely Eroded Area
Otay	Acid igneous rock land	4,497	7.1	0	0.0	0	0.0
	Anderson very gravelly sandy loam	22	0.0	0	0.0	0	0.0
	Arlington coarse sandy loam	0	0.0	0	0.0	0	0.0
	Auld clay	7	0.0	0	0.0	0	0.0
	Bosanko stony clay	52	0.1	0	0.0	0	0.0
	Chino fine sandy loam	26	0.0	0	0.0	0	0.0
	Chino silt loam	168	0.3	0	0.0	0	0.0
	Cieneba coarse sandy loam	393	0.6	393	0.6	0	0.0
	Cieneba rocky coarse sandy loam	694	1.1	694	1.1	0	0.0
	Cieneba very rocky coarse sandy loam	7,439	11.8	0	0.0	0	0.0
	Cieneba-Fallbrook rocky sandy loams	1,792	2.8	1,792	2.8	0	0.0
	Diablo clay	588	0.9	0	0.0	0	0.0
	Diablo-Olivenhain complex	158	0.3	0	0.0	0	0.0
	Escondido very fine sandy loam	1,064	1.7	892	1.4	0	0.0
	Fallbrook rocky sandy loam	845	1.3	641	1.0	0	0.0
	Fallbrook sandy loam	1,655	2.6	1,618	2.6	0	0.0
	Fallbrook-Vista sandy loams	340	0.5	0	0.0	0	0.0
	Friant fine sandy loam	1,372	2.2	0	0.0	0	0.0
	Friant rocky fine sandy loam	12,666	20.0	0	0.0	0	0.0
	Grangeville fine sandy loam	204	0.3	0	0.0	0	0.0
	Greenfield sandy loam	185	0.3	0	0.0	0	0.0
	Huerhuero loam	78	0.1	36	0.1	0	0.0
	Las Posas fine sandy loam	992	1.6	992	1.6	0	0.0
	Las Posas stony fine sandy loam	1,905	3.0	35	0.1	0	0.0
	Linne clay loam	86	0.1	0	0.0	0	0.0
	Metamorphic rock land	597	0.9	0	0.0	0	0.0
	Olivenhain cobbly loam	4,055	6.4	0	0.0	0	0.0
	Placentia sandy loam	542	0.9	300	0.5	0	0.0
	Ramona gravelly sandy loam	44	0.1	0	0.0	0	0.0
	Ramona sandy loam	1,399	2.2	697	1.1	0	0.0
	Redding cobbly loam	254	0.4	0	0.0	0	0.0
	Riverwash	51	0.1	0	0.0	0	0.0
	Rough broken land	42	0.1	0	0.0	0	0.0
	San Miguel rocky silt loam	16	0.0	0	0.0	0	0.0
	San Miguel-Exchequer rocky silt loams	13,300	21.0	0	0.0	0	0.0
	Stony land	110	0.2	0	0.0	0	0.0
	Tujunga sand	147	0.2	0	0.0	0	0.0
	Visalia gravelly sandy loam	228	0.4	0	0.0	0	0.0
	Visalia sandy loam	1,446	2.3	0	0.0	0	0.0
	Vista coarse sandy loam	1,019	1.6	269	0.4	0	0.0
	Vista rocky coarse sandy loam	1,793	2.8	0	0.0	0	0.0
	Water	855	1.4	0	0.0	0	0.0
	Wyman loam	127	0.2	0	0.0	0	0.0
Miramar	Redding cobbly loam	325	46.4	0	0.0	0	0.0
	Redding cobbly loam dissected	30	4.2	0	0.0	0	0.0
	Redding gravelly loam	153	21.9	0	0.0	0	0.0
	Redding-Urban land complex	42	6.0	0	0.0	0	0.0
	San Miguel-Exchequer rocky silt loams	28	4.0	0	0.0	0	0.0
	Water	123	17.5	0	0.0	0	0.0

Watershed	Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severely Eroded Acres	% Severely Eroded Area
Hodges	Acid igneous rock land	4,896	3.1	0	0.0	0	0.0
	Arlingn coarse sandy loam	262	0.2	0	0.0	0	0.0
	Auld clay	8	0.0	0	0.0	0	0.0
	Bancas stony loam	3,388	2.1	213	0.1	0	0.0
	Bonsall sandy loam	2,298	1.5	431	0.3	0	0.0
	Bonsall-Fallbrook sandy loams	2,396	1.5	0	0.0	0	0.0
	Boomer loam	33	0.0	0	0.0	0	0.0
	Boomer stony loam	3,279	2.1	0	0.0	0	0.0
	Bosanko clay	550	0.3	0	0.0	0	0.0
	Calpine coarse sandy loam	17	0.0	0	0.0	0	0.0
	Chino fine sandy loam	680	0.4	0	0.0	0	0.0
	Chino silt loam saline	923	0.6	0	0.0	0	0.0
	Cieneba coarse sandy loam	4,745	3.0	4,745	3.0	0	0.0
	Cieneba rocky coarse sandy loam	4,719	3.0	4,719	3.0	0	0.0
	Cieneba very rocky coarse sandy loam	13,019	8.2	0	0.0	0	0.0
	Cieneba-Fallbrook rocky sandy loams	33,360	21.1	33,360	21.1	0	0.0
	Clayey alluvial land	324	0.2	0	0.0	0	0.0
	Crouch coarse sandy loam	136	0.1	0	0.0	0	0.0
	Crouch rocky coarse sandy loam	322	0.2	0	0.0	0	0.0
	DAMS	19	0.0	0	0.0	0	0.0
	Diablo clay	395	0.2	33	0.0	0	0.0
	Diablo-Olivenhain complex	348	0.2	0	0.0	0	0.0
	Diablo-Urban land complex	20	0.0	0	0.0	0	0.0
	Escondido very fine sandy loam	331	0.2	327	0.2	0	0.0
	Exchequer rocky silt loam	10	0.0	0	0.0	0	0.0
	Fallbrook rocky sandy loam	4,246	2.7	770	0.5	0	0.0
	Fallbrook sandy loam	22,503	14.2	20,166	12.7	1,397	0.9
	Fallbrook-Vista sandy loams	1,895	1.2	0	0.0	0	0.0
	Friant rocky fine sandy loam	1,023	0.6	0	0.0	0	0.0
	Grangeville fine sandy loam	95	0.1	0	0.0	0	0.0
	Gravel pits	10	0.0	0	0.0	0	0.0
	Greenfield sandy loam	487	0.3	0	0.0	0	0.0
	Holland fine sandy loam	901	0.6	0	0.0	0	0.0
	Holland stony fine sandy loam	6,469	4.1	0	0.0	0	0.0
	La Posta rocky loamy coarse sand	46	0.0	0	0.0	0	0.0
	Las Posas fine sandy loam	1,502	0.9	865	0.5	0	0.0
	Las Posas stony fine sandy loam	8,240	5.2	684	0.4	0	0.0
	Linne clay loam	40	0.0	0	0.0	0	0.0
	Loamy alluvial land	760	0.5	0	0.0	0	0.0
	Mottsville loamy coarse sand	20	0.0	0	0.0	0	0.0
	Olivenhain cobbly loam	784	0.5	0	0.0	0	0.0
	Placentia sandy loam	4,344	2.7	74	0.0	0	0.0
	Ramona gravelly sandy loam	60	0.0	0	0.0	0	0.0
	Ramona sandy loam	4,963	3.1	2,000	1.3	0	0.0
	Reiff fine sandy loam	125	0.1	0	0.0	0	0.0
	Riverwash	1,352	0.9	0	0.0	0	0.0
	Rough broken land	266	0.2	0	0.0	0	0.0
	San Miguel rocky silt loam	169	0.1	0	0.0	0	0.0
	San Miguel-Exchequer rocky silt loams	1,476	0.9	0	0.0	0	0.0

Watershed	Soil Category	Acres	% Area	Eroded Acres	% Eroded Area	Severely Eroded Acres	% Severely Eroded Area
	Sheephead rocky fine sandy loam	1,132	0.7	1,132	0.7	0	0.0
	Steep gullied land	476	0.3	0	0.0	0	0.0
	stony land	58	0.0	0	0.0	0	0.0
	Tollhouse rocky coarse sandy loam	157	0.1	0	0.0	0	0.0
	Tujunga sand	1,687	1.1	0	0.0	0	0.0
	Visalia sandy loam	6,880	4.3	0	0.0	0	0.0
	Vista coarse sandy loam	4,731	3.0	1,970	1.2	0	0.0
	Vista rocky coarse sandy loam	3,572	2.3	0	0.0	0	0.0
	Water	1,215	0.8	0	0.0	0	0.0
	Wyman loam	104	0.1	0	0.0	0	0.0