

SLO GPU - Traffic Noise Model - Existing Conditions (2012)

Noise Level Descriptor: CNEL
 Site Conditions: Hard
 Traffic Input: ADT
 Traffic K-Factor:

Number	Name	Segment Description and Location		Speed (mph)	Distance to Directional Centerline, (feet) _d			Traffic Distribution Characteristics						Distance to Contour, (feet) ₃			
		From	To		Near	Far	% Auto	% Medium	% Heavy	% Day	% Eve	% Night	70 dBA	65 dBA	60 dBA	55 dBA	
															70 dBA	65 dBA	60 dBA
1	Augusta	Bishop	Laurel	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	56.4	2	7	22	69
3	Broad	S	South	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.9	24	77	244	773
4	Broad	Foothill	Lincoln	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.9	4	12	39	124
5	Broad	Monterey	Marsh	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.8	5	15	48	151
6	Broad	Marsh	Upham	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.3	21	67	212	670
7	Broad	Upham	South	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.8	30	96	302	956
8	Broad	South	Orcutt	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.3	67	212	670	2119
9	Broad	Orcutt	Tank Farm	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.1	81	256	810	2563
10	Broad	Tank Farm	Buckley	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.6	58	183	578	1829
11	Broad	Buckley South	Buckley	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.8	48	152	480	1517
12	Buchon	High	Santa Rosa	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	53.4	1	3	11	35
13	Buchon	High	Tank Farm	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.6	3	9	29	91
17	California	Cal Poly	Santa Rosa	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.4	14	44	138	436
18	California	Foothill	Foothill	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.4	28	87	275	870
19	California	Taft	Taft	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.2	17	53	167	527
20	California	Taft	San Luis	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.3	17	54	170	537
21	Capitolo	Broad	Sacramento	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.9	4	12	39	122
22	Chorro	Highland	Foothill	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.4	5	17	55	173
23	Chorro	Foothill	Lincoln	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	61.5	7	22	70	221
24	Chorro	Lincoln	Palm	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.7	5	15	46	146
25	Chorro	Palm	Pismo	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.6	5	14	45	143
26	Foothill	Patricia	Patricia	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.3	21	67	212	671
27	Foothill	Patricia	Broad	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.8	30	96	304	963
28	Foothill	Broad	Santa Rosa	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.0	39	125	395	1248
29	Foothill	Santa Rosa	California	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.7	37	118	372	1176
33	Highland	Higuera	Broad	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	56.0	2	6	20	63
34	Highland	Ferrini	Ferrini	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.6	4	11	36	113
35	Highland	Ferrini	Cal Poly	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.4	22	68	217	685
36	Higuera	Johnson	Santa Rosa	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	62.8	9	30	94	298
37	Higuera	Johnson	Nipomo	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.8	24	75	239	755
38	Higuera	Nipomo	Marsh	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.5	28	88	278	880
39	Higuera	Marsh	South	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.7	37	117	369	1167
40	Higuera	South	Madonna	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.1	81	257	811	2566
41	Higuera	Madonna	Prado	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.6	46	144	455	1439
42	Higuera	Prado	Tank Farm	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.1	51	161	508	1606
43	Higuera	Tank Farm	LOVR	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.3	67	212	671	2122
44	Higuera	LOVR	South of City Limits	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.4	22	68	216	684
45	Industrial	Broad	Sacramento	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.1	13	40	127	403
46	Johnson	Monterey	San Luis	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.3	17	54	171	542
47	Johnson	San Luis	Laurel	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.0	25	79	250	789
48	Johnson	Laurel	Orcutt	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.4	11	34	109	345
50	Laurel	Johnson	Orcutt	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.0	20	62	197	623
52	Los Osos Valley	West City Limits	West City Limits	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.9	31	98	311	985
53	Los Osos Valley	North City Limits	North City Limits	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.0	63	200	633	2001
54	Los Osos Valley	Prefumo Canyon	Prefumo Canyon	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.9	77	242	767	2425
55	Los Osos Valley	Madonna	Route 101	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.6	91	288	911	2879

56	Los Osos Valley	Route 101	26,028	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.1	80	254	802	2535
57	Los Osos Valley	Route 101	27,028	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.2	83	263	833	2633
58	Madonna	LOVR	20,105	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.9	62	196	619	1958
59	Madonna	Oceanaire	23,606	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.6	73	230	727	2299
60	Madonna	US 101	24,175	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.7	74	235	745	2355
61	Margarita	E Higuera	3,735	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.8	3	10	30	96
62	Marsh	Higuera	10,156	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.6	11	36	114	361
63	Marsh	Santa Rosa	4,498	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.0	5	16	51	160
64	Mill	Grand	2,042	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	55.2	2	5	17	53
65	Monterey	Chorro	4,220	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.8	5	15	47	150
66	Monterey	Santa Rosa	10,425	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.7	12	37	117	370
67	Monterey	California	10,167	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.6	11	36	114	361
69	Oceanaire	LOVR	2,403	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	55.9	2	6	20	62
70	Oceanaire	LOVR	702	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	50.6	1	2	6	18
71	Orcutt	Broad	14,640	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.0	80	253	801	2533
72	Orcutt	Laurel	2,416	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.2	13	42	132	418
73	Orcutt	Johnson	6,819	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.7	37	118	373	1180
74	Orcutt	Tank Farm	2,151	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.7	12	37	118	372
75	Palm	South City Limits	4,194	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.3	3	11	34	108
77	Pismo	Chorro	3,218	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.6	4	11	36	114
78	Pismo	Higuera	3,013	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.3	3	11	34	107
79	Prado	Santa Rosa	6,818	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.8	15	48	152	482
80	Prado	Madonna	6,818	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.8	15	48	152	482
81	Prado	US 101	3,302	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.2	5	17	53	166
82	Prefumo	Higuera	4,825	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.3	11	34	108	341
83	Ramona	Broad	4,873	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.0	4	13	40	126
84	Sacramento	CL (W LOVR)	3,558	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.5	6	18	57	179
85	San Luis	Industrial	9,761	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.4	11	35	110	347
85	San Luis	Johnson	9,761	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.4	11	35	110	347

Vehicle Fleet based on EMFAC 2010 for SLO County

Temporal split based on default percentages in the FHWA TNM

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.



Noise Level Descriptor: CNEL
 Site Conditions: Hard
 Traffic Input: ADT
 Traffic K-Factor:

Number	Name	Segment Description and Location		Input										Output				
		From	To	Speed (mph)	Distance to Directional Centerline, (feet) _d		% Auto	Traffic Distribution Characteristics			% Night	CNEL, (dBA) _{5,6,7}	Distance to Contour, (feet) ₃					
					Near	Far		% Heavy	% Day	% Eve			70 dBA	65 dBA	60 dBA	55 dBA		
1	Augusta	Bishop	Laurel	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	56.4	2	7	22	69	
3	Broad	S	South	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.4	27	87	275	869	
4	Broad	Foothill	Lincoln	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.9	4	12	39	124	
5	Broad	Monterey	Marsh	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.8	5	15	48	151	
6	Broad	Marsh	Upham	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.0	25	80	252	796	
7	Broad	Upham	South	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.8	38	120	378	1196	
8	Broad	South	Orcutt	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.2	83	262	830	2624	
9	Broad	Orcutt	Tank Farm	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.8	120	380	1203	3803	
10	Broad	Tank Farm	Buckley	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.7	93	295	934	2953	
11	Broad	Buckley South		45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.9	77	243	767	2426	
12	Buchon	High	Santa Rosa	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	54.0	1	4	12	39	
13	Buchon	Tank Farm	Johnson	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.6	9	29	91	31	
17	California	Cal Poly	Foothill	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.6	15	46	145	460	
18	California	Foothill	Taft	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.5	35	111	351	1109	
19	California	Taft	Monterey	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.5	18	56	176	556	
20	California	Taft	San Luis	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.3	21	67	213	673	
21	Capitolo	Broad	Sacramento	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.8	5	15	48	151	
22	Chorro	Highland	Foothill	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	61.8	8	24	75	237	
23	Chorro	Foothill	Lincoln	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	62.7	9	29	93	295	
24	Chorro	Lincoln	Palm	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.4	5	17	54	172	
25	Chorro	Palm	Pismo	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	61.3	7	21	68	214	
26	Foothill	Los Osos Valley	Patricia	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.6	23	73	230	728	
27	Foothill	Patricia	Broad	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.8	30	96	305	963	
28	Foothill	Broad	Santa Rosa	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.0	39	125	395	1248	
29	Foothill	Santa Rosa	California	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.7	47	148	466	1475	
33	High	Higuera	Broad	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.5	3	9	28	90	
34	Highland	Higuera	Ferrini	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.6	4	11	36	114	
35	Highland	Ferrini	Cal Poly	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.0	32	100	315	997	
36	Higuera	Johnson	Santa Rosa	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.4	11	34	109	343	
37	Higuera	Johnson	Nipomo	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.2	33	104	328	1037	
38	Higuera	Nipomo	Marsh	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.2	33	104	329	1040	
39	Higuera	Marsh	South	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.9	49	155	491	1554	
40	Higuera	South	Madonna	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.0	99	313	990	3131	
41	Higuera	Madonna	Prado	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.6	71	223	706	2234	
42	Higuera	Prado	Tank Farm	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.9	77	245	774	2448	
43	Higuera	Tank Farm	LOVR	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.5	88	280	884	2796	
44	Higuera	LOVR	South of City Limits	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.1	26	82	259	818	
45	Industrial	Broad	Sacramento	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.5	14	44	140	443	
46	Johnson	Monterey	San Luis	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.8	19	60	190	600	
47	Johnson	San Luis	Laurel	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.4	34	108	342	1081	
48	Johnson	Laurel	Orcutt	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.3	17	54	170	539	
50	Laurel	Johnson	Orcutt	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.9	24	77	242	766	
52	Los Osos Valley	West City Limits	North City Limits	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.5	56	176	555	1756	
53	Los Osos Valley	North City Limits	Prefumo Canyon	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.8	95	300	949	3002	
54	Los Osos Valley	Prefumo Canyon	Madonna	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.4	109	345	1092	3454	
55	Los Osos Valley	Madonna	Route 101	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.5	112	353	1117	3534	

56	Los Osos Valley	Route 101	37,050	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.6	114	361	1141	3609
57	Los Osos Valley	Route 101	27,775	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.3	86	271	856	2706
58	Madonna	LOVR	22,700	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.5	70	221	699	2211
59	Madonna	Oceanaire	23,610	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.6	73	230	727	2300
60	Madonna	US 101	24,175	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.7	74	235	745	2355
61	Margarita	E Higuera	3,735	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.8	3	10	30	96
62	Marsh	Higuera	16,740	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.8	19	59	188	595
63	Marsh	Santa Rosa	4,500	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.0	5	16	51	160
64	Mill	Grand	3,735	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.8	3	10	30	96
65	Monterey	Chorro	4,220	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.8	5	15	47	150
66	Monterey	Chorro	10,570	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.8	12	38	119	376
67	Monterey	Santa Rosa	12,520	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.5	14	44	141	445
69	Oceanaire	California	2,405	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	55.9	2	6	20	62
70	Oceanaire	LOVR	790	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	51.1	1	2	6	20
71	Orcutt	Broad	18,030	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.0	99	312	986	3119
72	Orcutt	Laurel	3,930	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.3	21	68	215	680
73	Orcutt	Johnson	13,515	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.7	74	234	739	2338
74	Orcutt	Tank Farm	13,125	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.6	72	227	718	2270
75	Palm	South City Limits	4,195	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.4	3	11	34	108
77	Pismo	Chorro	3,295	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.7	4	12	37	117
78	Pismo	Higuera	3,015	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.3	3	11	34	107
79	Prado	Santa Rosa	29,725	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.2	66	210	664	2101
80	Prado	Madonna	38,230	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.3	85	270	855	2702
81	Prado	US 101	34,690	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.4	55	174	552	1745
82	Prefumo	Higuera	4,990	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.5	11	35	112	353
83	Ramona	CL (W LOVR)	6,325	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.1	5	16	52	163
84	Sacramento	Broad (W Broad)	5,280	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	62.3	8	27	84	266
85	San Luis	Industrial	13,870	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.9	16	49	156	493
85	San Luis	Johnson															

Vehicle Fleet based on EMFAC 2010 for SLO County

Temporal split based on default percentages in the FHWA TNM

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.

SLO GPU - Traffic Noise Model - Highway 101- Existing Conditions (2012)

Noise Level Descriptor: CNEL
 Site Conditions: Hard
 Traffic Input: ADT
 Traffic K-Factor:

Segment Description and Location

Number	Name	ADT	Speed (mph)	Distance to Directional Centerline, (feet) ⁴		Traffic Distribution Characteristics			CNEL, (dBA) _{5,6,7}	Distance to Contour, (feet) ₃							
				Near	Far	% Auto	% Medium	% Heavy		% Day	% Eve	% Night	70 dBA	65 dBA	60 dBA	55 dBA	
Highway 101																	
1	North of LOVR	58,700	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	81.2	662	2094	6621	20937
2	South of LOVR	63,300	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	81.5	714	2258	7140	22578
3	North of Madonna	67,100	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	81.8	757	2393	7568	23933
4	South of Madonna	57,700	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	81.1	651	2058	6508	20581
5	North of Route 227	62,300	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	81.5	703	2222	7027	22221
6	South of Route 227	67,100	65	50	50	91.3%	2.7%	6.0%	85.0%	10.0%	10.0%	5.0%	81.8	763	2412	7626	24117
7	North of Route 1 N	54,800	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	81.2	666	2106	6660	21059
8	South of Route 1 N	60,300	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	81.7	733	2317	7328	23173
9	North of California	44,800	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	80.4	545	1722	5446	17221
10	South of California	47,400	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	80.6	576	1822	5762	18220
11	North of Grand	37,600	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	79.6	457	1445	4571	14453
12	South of Grand	44,800	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	80.4	545	1722	5446	17221
13	North of Buena Vista	43,800	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	79.9	488	1545	4884	15446
14	South of Buena Vista	40,800	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	79.6	455	1439	4550	14388
15	North of Northern City Limit	43,800	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	79.9	488	1545	4884	15446
16	South of Northern City Limit	43,800	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	79.9	488	1545	4884	15446

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.



Noise Level Descriptor: CNEL
 Site Conditions: Hard
 Traffic Input: ADT
 Traffic K-Factor:

Segment Description and Location

Number	Name	Segment Description and Location	Input										Output					
			ADT	Speed (mph)	Distance to Directional Centerline, (feet) ⁴ Near	Distance to Directional Centerline, (feet) ⁴ Far	% Auto	% Medium	% Heavy	% Day	% Eve	% Night	CNEL, (dBA) _{5,6,7}	70 dBA	65 dBA	60 dBA	55 dBA	
Highway 101																		
1		North of LOVR	79,520	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	82.5	897	2836	8969	28363
2		South of LOVR	85,215	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	82.8	961	3039	9612	30395
3		North of Madonna	90,090	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	83.1	1016	3213	10161	32133
4		South of Madonna	81,475	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	82.6	919	2906	9190	29061
5		North of Route 227	84,490	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	82.8	953	3014	9530	30136
6		South of Route 227	90,090	65	50	50	91.3%	2.7%	6.0%	85.0%	10.0%	10.0%	5.0%	83.1	1024	3238	10240	32380
7		North of Route 1 N	85,680	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	83.2	1041	3293	10412	32926
8		South of Route 1 N	77,975	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	82.8	948	2997	9476	29965
9		North of California	74,590	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	82.6	907	2867	9067	28672
10		South of California	76,170	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	82.7	926	2928	9259	29280
11		North of Grand	67,470	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	82.1	820	2594	8201	25935
12		South of Grand	74,590	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	82.6	907	2867	9067	28672
13		North of Buena Vista	79,045	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	82.5	881	2787	8815	27875
14		South of Buena Vista	71,910	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	82.1	802	2536	8019	25359
15		North of Northern City Limit	79,045	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	82.5	881	2787	8815	27875
16		South of Northern City Limit	79,045	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	82.5	881	2787	8815	27875

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.

SLO GPU - HWY 101 Vehicle Fleet Calculation											
Mile Post	Highway 101 Location	ADT ²	Truck ADT by Axle ¹					MT ³	HT ⁴	MT %	HT %
			2	3	4	5+					
25.911	North of LOVR	NA	NA	NA	NA	NA	NA	NA	NA	3%	6%
25.911	South of LOVR	NA	NA	NA	NA	NA	NA	NA	NA	3%	6%
27.501	North of Madonna	NA	NA	NA	NA	NA	NA	NA	NA	3%	6%
27.501	South of Madonna	NA	NA	NA	NA	NA	NA	NA	NA	3%	6%
28.088	North of Route 227	57,000	1,651	481	253	2,574	1,651	3,308	1,651	3%	6%
28.088	South of Route 227	60,000	1,645	478	246	2,557	1,645	3,281	1,645	3%	6%
29.067	North of Route 1 N	43,900	1,020	628	215	2,439	1,020	3,282	1,020	2%	7%
29.067	South of Route 1 N	NA	NA	NA	NA	NA	NA	NA	NA	2%	7%
29.375	North of California	NA	NA	NA	NA	NA	NA	NA	NA	2%	7%
29.375	South of California	NA	NA	NA	NA	NA	NA	NA	NA	2%	7%
29.767	North of Grand	NA	NA	NA	NA	NA	NA	NA	NA	2%	7%
29.767	South of Grand	NA	NA	NA	NA	NA	NA	NA	NA	2%	7%
29.985	North of Buena Vista	NA	NA	NA	NA	NA	NA	NA	NA	2%	6%
29.985	South of Buena Vista	NA	NA	NA	NA	NA	NA	NA	NA	2%	6%
30.36	North of Northern City Limit	41000	960	405	133	1823	960	2361	960	2%	6%
30.36	South of Northern City Limit	NA	NA	NA	NA	NA	NA	NA	NA	2%	6%

Notes:

1. ADT= Average Daily Traffic
 2. Truck ADT derived from Caltrans 2010 Annual Average Daily Truck Data.
 2. MT=Medium Trucks include all 2 axle trucks.
 3. HT=Heavy Trucks includes all trucks with 3 or more axles.
 4. Where Truck Data or AADT was not available, truck percentages were used from a nearby segment of the same road with similar AADT counts.
 5. Orange text represents values based on calculated values from other segments for which data was available.
- Source: Caltrans 2010. Annual Average Daily Truck Traffic on California State Highway System. Available: <http://traffic-counts.dot.ca.gov/truck2010final.pdf>

SLO GPU - Highway 101 Traffic Volumes

County	Location	Back AADT	Ahead AADT	Sum
SLO	101/Los Osos Valley Road	62700	57400	120100
SLO	101/Madonna	59200	66000	125200
SLO	101/Jct. 227	66000	60500	126500
SLO	101/Jct. 1 N	57300	50500	107800
SLO	101/California	43500	41800	85300
SLO	101/Grand	41800	34000	75800
SLO	101/Buena Vista	34000	37000	71000
SLO	101/North City (Not sure where this one is)	37000	39500	76500

Reference

State of California Department of Transportation [Caltrans] (2012). 2011 All Traffic Volumes on California State Highway System. State of California, Department of Transportation. Traffic Operations Division.

<u>Citation</u>	<u>Reference</u>
1	Caltrans Technical Noise Supplement. 2009 (November). Table (5-11), Pg 5-60.
2	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-26), Pg 5-60.
3	Caltrans Technical Noise Supplement. 2009 (November). Equation (2-16), Pg 2-32.
4	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-11), Pg 5-47, 48.
5	Caltrans Technical Noise Supplement. 2009 (November). Equation (2-26), Pg 2-55, 56.
6	Caltrans Technical Noise Supplement. 2009 (November). Equation (2-27), Pg 2-57.
7	Caltrans Technical Noise Supplement. 2009 (November). Pg 2-53.
8	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-7), Pg 5-45.
9	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-8), Pg 5-45.
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11	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-13), Pg 5-49.
12	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-14), Pg 5-49.
13	Federal Highway Administration Traffic Noise Model Technical Manual. Report No. FHWA-PD-96-010. 1998 (January). Equation (16), Pg 67
14	Federal Highway Administration Traffic Noise Model Technical Manual. Report No. FHWA-PD-96-010. 1998 (January). Equation (20), Pg 69
15	Federal Highway Administration Traffic Noise Model Technical Manual. Report No. FHWA-PD-96-010. 1998 (January). Equation (18), Pg 69

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