

APPENDIX A

Project Trip Generation

Table A.1. Los Angeles Entertainment District - Base Trip Generation

A. Weekday PM Peak Hour

Land Use Type	Quantity	Units	Trip Rate	ITE Source Code	Notes	Base Vehicle Trips
Area A						
Convention Hotel	1,200	Rooms	0.77	310	Hotel, $\text{Ln}(T) = 1.212\text{Ln}(X) - 1.763$	925
Live Theater	7,000	Seats	0.02	441	Live Theater	140
Entertainment	80,000	GSF	0.81	831	Assume minimal entertainment trips in pk hr, used Quality Restaurant AM Pk Hr	65
Museum	25,000	GSF	1.14		Empirical Rate, ¹	29
Visitor Attraction	35,000	GSF	2.71		Empirical Rate, ²	95
Restaurant	100,000	GSF	7.49	831	Quality Restaurant	749
Retail	90,000	LSF	6.51	820	Shopping Center, $\text{Ln}(T) = 0.660\text{Ln}(X) + 3.403$	586
Health Club	125,000	GSF	4.30	493	Health Club	538
General Office	75,000	GSF	2.18	710	General Office, $T = 1.121(X) + 79.295$	163
Subtotal Area A						3,289
Area B						
Medical Office	135,000	GSF	2.97	720	Medical Office, $\text{Ln}(T) = 0.921\text{Ln}(X) + 1.476$	401
General Office	90,000	GSF	2.00	710	General Office, $T = 1.121(X) + 79.295$	180
Hotel	800	Rooms	0.67	310	Hotel, $\text{Ln}(T) = 1.212\text{Ln}(X) - 1.763$	399
Retail	295,000	LSF	4.35	820	Shopping Center, $\text{Ln}(T) = 0.660\text{Ln}(X) + 3.403$	1,282
Entertainment	55,000	GSF	0.81	831	Assume minimal entertainment trips in pk hr, used Quality Restaurant AM Pk Hr	45
Restaurant	185,000	GSF	7.49	831	Quality Restaurant	1,236
Residential	800	DU	0.33	222	High-Rise Apartment, $T = 0.315(X) + 12.302$	264
Subtotal Area B						3,808
Area A & B						
Hotel	1,800	Rooms				1,325
Live Theater	7,000	Seats				140
Entertainment	135,000	GSF				109
Museum	25,000	GSF				29
Visitor Attraction	35,000	GSF				95
Restaurants	265,000	GSF				1,985
Retail	385,000	LSF				1,868
Health Club	125,000	GSF				538
General Office	165,000	GSF				344
Medical Office	135,000	GSF				401
Residential	800	DU				264
Total Area A & B						7,097

Notes:

1. Assumes 300,000 annual visitors & typically 1,000 visitors/day, 2.5 persons/vehicle, & 10% in peak hour
2. Assumes 650,000 annual visitors & typically 2,165 persons/day, 3.0 persons/vehicle, & 15% in peak hour

Table A.2. Los Angeles Entertainment District - Adjusted Trip Generation

A. Weekday PM Peak Hour

Land Use Type	Quantity	Units	Base Vehicle Trips	% Arena	% LACC	% Internal	% Transit	% Walk	% Pass-By	Net Vehicle Trips	Net as % Base	Inbound		Outbound	
												%	Trips	%	Trips
Area A															
Convention Hotel	1,200	Rooms	925	0%	40%	15%	20%	5%	0%	354	38%	53%	188	47%	166
Live Theater	7,000	Seats	140	0%	5%	0%	5%	0%	0%	126	90%	50%	63	50%	63
Entertainment	80,000	GSF	65	0%	10%	0%	0%	0%	0%	58	0%	67%	39	33%	19
Museum	25,000	GSF	29	0%	10%	0%	15%	0%	0%	22	77%	35%	8	65%	14
Visitor Attraction	35,000	GSF	95	0%	10%	0%	15%	0%	0%	73	77%	65%	47	35%	25
Restaurants	100,000	GSF	749	12%	20%	20%	5%	5%	10%	330	44%	67%	221	33%	109
Retail	90,000	LSF	586	12%	20%	10%	10%	10%	30%	201	34%	48%	96	52%	104
Health Club	125,000	GSF	538	0%	0%	10%	5%	5%	20%	348	65%	61%	212	39%	136
General Office	75,000	GSF	163	0%	0%	5%	20%	5%	0%	116	71%	17%	20	83%	97
Subtotal Area A			3,289	160	663	287	229	112	210	1,628	50%	55%	894	45%	734
Area B															
Medical Office	135,000	GSF	401	0%	0%	5%	10%	0%	0%	343	86%	27%	93	73%	250
General Office	90,000	GSF	180	0%	0%	10%	20%	5%	0%	122	68%	17%	21	83%	101
Hotel	600	Rooms	399	25%	0%	20%	20%	10%	0%	168	42%	53%	89	47%	79
Retail	295,000	LSF	1,282	12%	10%	10%	10%	10%	20%	576	45%	48%	277	52%	300
Entertainment	55,000	GSF	45	0%	10%	0%	0%	0%	0%	40	0%	67%	27	33%	13
Restaurants	165,000	GSF	1,236	12%	20%	20%	5%	5%	10%	545	44%	67%	365	33%	180
Residential	800	DU	264	0%	0%	10%	10%	10%	0%	190	72%	61%	116	39%	74
Subtotal Area B			3,808	402	380	393	266	179	205	1,983	52%	50%	986	50%	997
Area A & B															
Hotel	1,800	Rooms	1,325							522			277		245
Live Theater	7,000	Seats	140							126			63		63
Entertainment	135,000	GSF	109							98			66		32
Museum	25,000	GSF	29							22			8		14
Visitor Attraction	35,000	GSF	95							73			47		25
Restaurants	265,000	GSF	1,985							875			586		289
Retail	385,000	LSF	1,868							777			373		404
Health Club	125,000	GSF	538							348			212		136
General Office	165,000	GSF	344							238			40		198
Medical Office	135,000	GSF	401							343			93		250
Residential	800	DU	264							190			116		74
Total Area A & B			7,097	562	1,043	679	495	291	414	3,612	51%	52%	1,881	48%	1,731

Table A.3. Los Angeles Entertainment District - Base Trip Generation

B. Saturday Evening Peak Hour

Land Use Type	Quantity	Units	Trip Rate	ITE Source Code	Notes	Base Vehicle Trips
Area A						
Convention Hotel	1,200	Rooms	0.70	310	Hotel, $T = 0.694(X) + 4.319$, ¹	837
Live Theater	7,000	Seats	0.19		Empirical Rate, ⁴	1,330
Entertainment	80,000	GSF	10.86	831	Quality Restaurant, $T = 10.866(X) - 0.463$, ¹	869
Museum	25,000	GSF	1.14		Empirical Rate, ⁵	29
Visitor Attraction	35,000	GSF	2.71		Empirical Rate, ⁷	95
Restaurant	100,000	GSF	10.86	831	Quality Restaurant, $T = 10.866(X) - 0.463$, ¹	1,086
Retail	90,000	LSF	4.52	820	Shopping Center, $\ln(T) = 0.651\ln(X) + 3.773$, ³	407
Health Club	125,000	GSF	2.15		Empirical Rate, ⁵	269
General Office	75,000	GSF	0.40	710	General Office, $\ln(T) = 0.814\ln(X) - 0.115$, ¹	30
Subtotal Area A						4,951
Area B						
Medical Office	135,000	GSF	0.36	710	General Office, ^{1,2}	48
General Office	90,000	GSF	0.39	710	General Office, $\ln(T) = 0.814\ln(X) - 0.115$, ¹	35
Hotel	600	Rooms	0.70	310	Hotel, $T = 0.694(X) + 4.319$, ¹	421
Retail	295,000	LSF	0.98	820	Shopping Center, $\ln(T) = 0.651\ln(X) + 3.773$, ³	289
Entertainment	55,000	GSF	10.86	831	Quality Restaurant, $T = 10.866(X) - 0.463$, ¹	597
Restaurant	165,000	GSF	10.86	831	Quality Restaurant, $T = 10.866(X) - 0.463$, ¹	1,792
Residential	800	DU	0.38	222	High-Rise Apartment, $\ln(T) = 0.934\ln(X) - 0.535$, ¹	301
Subtotal Area B						3,483
Area A & B						
Hotel	1,800	Rooms				1,258
Live Theater	7,000	Seats				1,330
Entertainment	135,000	GSF				1,466
Museum	25,000	GSF				29
Visitor Attraction	35,000	GSF				95
Restaurants	265,000	GSF				2,878
Retail	385,000	LSF				696
Health Club	125,000	GSF				269
General Office	165,000	GSF				65
Medical Office	135,000	GSF				48
Residential	800	DU				301
Total Area A & B						8,434

Notes:

1. Used Saturday Peak Hour of Generator
2. Used General Office Rate for Saturday
3. Used ITE 820 Shopping Center, Saturday Peak Hour of Generator, adjusted to 7 - 8 PM
4. Assumes average vehicle occupancy of 3.5 persons/vehicle & 67% Arrive in 1 hr
5. Used 1/2 of Weekday PM Peak Hour of Adj St
6. Assumes 300,000 annual visitors & typically 1,000 visitors/day, 2.5 persons/vehicle, & 10% in peak hour
7. Assumes 650,000 annual visitors & typically 2,165 persons/day, 3.0 persons/vehicle, & 15% in peak hour

Table A.4. Los Angeles Entertainment District - Adjusted Trip Generation

B. Saturday Evening Peak Hour

Land Use Type	Quantity	Units	Base Vehicle Trips	% Arena	% LACC	% Internal	% Transit	% Walk	% Pass-By	Net Vehicle Trips	Net as % Base	Inbound		Outbound	
												%	Trips	%	Trips
Area A															
Convention Hotel	1,200	Rooms	837	0%	30%	15%	20%	5%	0%	374	45%	53%	198	47%	176
Live Theater	7,000	Seats	1,330	0%	5%	0%	5%	0%	0%	1,200	90%	95%	1,140	5%	60
Entertainment	80,000	GSF	869	0%	10%	0%	0%	0%	0%	782	90%	67%	524	33%	258
Museum	25,000	GSF	29	0%	10%	0%	15%	0%	0%	22	77%	35%	8	65%	14
Visitor Attraction	35,000	GSF	95	0%	10%	0%	15%	0%	0%	73	77%	35%	25	65%	47
Restaurants	100,000	GSF	1,086	12%	20%	20%	5%	5%	10%	479	44%	67%	321	33%	158
Retail	90,000	LSF	407	12%	20%	10%	10%	10%	30%	140	34%	52%	73	48%	67
Health Club	125,000	GSF	269	0%	0%	10%	5%	5%	20%	174	65%	61%	106	39%	68
General Office	75,000	GSF	30	0%	0%	5%	20%	5%	0%	21	71%	17%	4	83%	18
Subtotal Area A			4,951	179	715	292	252	93	156	3,264	66%	73%	2,398	27%	865
Area B															
Medical Office	135,000	GSF	48	0%	0%	0%	10%	0%	0%	43	90%	27%	12	73%	32
General Office	90,000	GSF	35	0%	0%	10%	20%	5%	0%	23	68%	17%	4	83%	19
Hotel	800	Rooms	421	25%	0%	20%	20%	10%	0%	177	42%	53%	94	47%	83
Retail	295,000	LSF	289	12%	10%	10%	10%	10%	20%	130	45%	52%	68	48%	62
Entertainment	55,000	GSF	597	0%	10%	0%	0%	0%	0%	537	90%	67%	360	33%	177
Restaurants	165,000	GSF	1,792	12%	20%	20%	5%	5%	10%	790	44%	67%	529	33%	261
Residential	800	DU	301	0%	0%	10%	10%	10%	0%	217	72%	57%	124	43%	93
Subtotal Area B			3,483	355	447	363	158	123	120	1,918	55%	62%	1,190	38%	728
Area A & B															
Hotel	1,800	Rooms	1,258							550			292		259
Live Theater	7,000	Seats	1,330							1,200			1,140		60
Entertainment	135,000	GSF	1,466							1,319			884		435
Museum	25,000	GSF	29							22			8		14
Visitor Attraction	35,000	GSF	95							73			25		47
Restaurants	265,000	GSF	2,878							1,268			850		418
Retail	385,000	LSF	696							269			140		129
Health Club	125,000	GSF	269							174			106		68
General Office	165,000	GSF	65							45			8		37
Medical Office	135,000	GSF	48							43			12		32
Residential	800	DU	301							217			124		93
Total Area A & B			8,434	534	1,162	655	409	216	277	5,181	61%	69%	3,588	31%	1,593