UP-TP Cordon Count-1963
C.1.d. Downtown Los Angeles
-persons & vehicles

S.C.R.T.D. LIBRARY

City of Los Angeles
Department of Traffic

72
.6
54
963

S.C.R.T.D. LIBRARY

1963

Cordon Count
of
Persons and Vehicles

Downtown Los Angeles

TABLE OF CONTENTS

Index of Plates and Tables	ii
Introduction	1
Description of the Study	2

INDEX OF PLATES AND TABLES

Plate 1 Aerial Map of Cordon Area

Plate 2 Graph - Mode of Transportation Used by Persons Entering Downtown Los Angeles

Plate 3 Graph - Vehicles Entering, Leaving and Accumulated in Downtown Area, by Time Period

Plate 4 Graph - Persons Entering, Leaving and Accumulated in Downtown Area, by Time Period

Table 1 Sixteen-Hour Summary, Vehicles and Persons

Table 2 Summary by Location - Vehicles

Table 3 Summary by Location - Persons

Table 4 Summary by Time Period - Vehicles

Table 5 Summary by Time Period - Persons

INTRODUCTION

Counts of the traffic in the downtown Los Angeles area have been made for many years, dating back to 1923. The data obtained from these counts is made available to interested agencies for use in certain aspects of civic and commercial planning. Information is obtained on all traffic entering and leaving the downtown area during a typical 16-hour period from 6 a.m. to 10 p.m.

The earliest counts were made with boundaries set at Sunset Boulevard, Figueroa Street, Washington Boulevard and either Main Street, Los Angeles Street or San Pedro Street.

In the late thirties, the boundaries of Sunset Boulevard, Figueroa Street, Pico Boulevard and Los Angeles Street were established. Boundaries were later expanded to include the freeways encircling the downtown area.

Previous counts were made by using a large group of people who manually counted vehicles and pedestrians at points where all streets crossed the cordon boundaries.

Prior to the 1963 count, it was decided that the purposes of the study could be accomplished by making use of automatic traffic volume counts supplemented with manual sampling counts of pedestrians and vehicle occupancy. This resulted in greatly reduced costs for the study. To facilitate this new technique, the cordon boundaries were re-established at Figueroa Street, Pico Boulevard, Los Angeles Street and Temple Street. The new simpler and less expensive procedure should make it possible to conduct the count annually.

DESCRIPTION OF THE STUDY

Since the primary count was taken with automatic counters, it was not possible to take the entire count on a single day. The count was actually taken on three successive Wednesdays in the month of May. A check count taken in the previous month had shown that the counts on successive Wednesdays are very close to the same in total and in distribution.

Automatic volume counts were taken at 87 locations for a 24-hour period. The desired 30 minute totals for a 16-hour period were then extracted from this data.

Information from previous counts was used to determine the ratio of passenger cars to other vehicles. It was decided that a breakdown of "passenger cars", "trucks and other vehicles", and "buses", was adequate for purposes of the study.

Passenger vehicle occupancy was determined by counting occupants and cars at 22 locations as a sample. The average occupancy for each period and each direction as derived from this sample was then applied to adjacent locations. The occupancy of trucks and other vehicles was assumed to be one.

The source of data for bus traffic and passengers was a one-day count made by the Metropolitan Transit Authority on May 15, 1963. April 1964

Pedestrian data were obtained by a sampling procedure. Sample counts were taken at 22 locations, and the information expanded by comparison with previous counts.

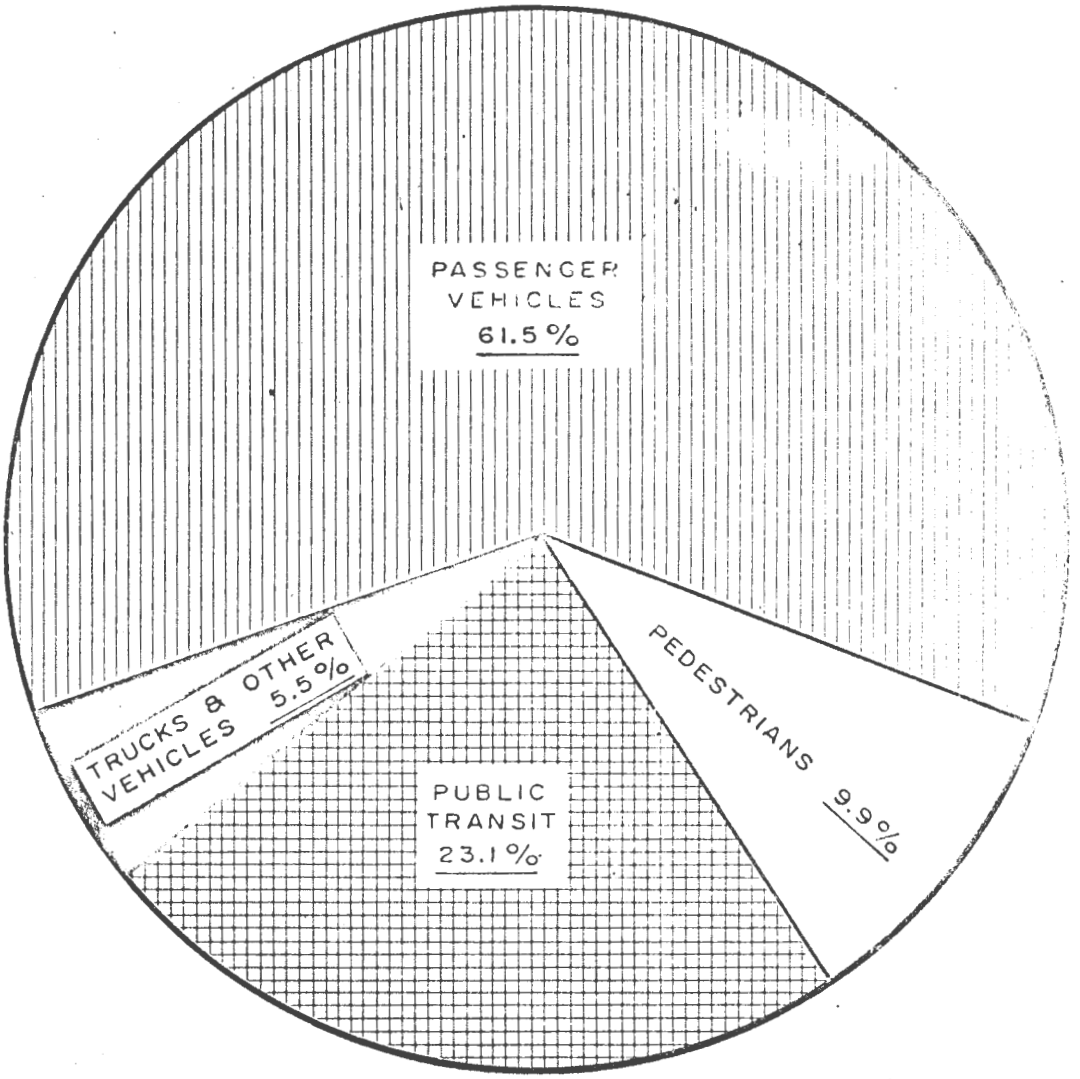
No conclusions have been drawn from the data as the purpose of the study is only to make the basic information available for all possible uses.

TABLE I

SIXTEEN HOUR SUMMARY

	IN	OUT
Passenger Cars	253,731	247,836
Buses	4,935	4,931
Trucks and Other Vehicles	32,840	33,203
GRAND TOTAL	291,506	285,970
Car Passengers	363,844	355,192
Bus Passengers	141,357	141,030
Other Vehicle Passengers	32,840	33,203
Pedestrians	62,689	60,559
GRAND TOTAL	605,730	589,964

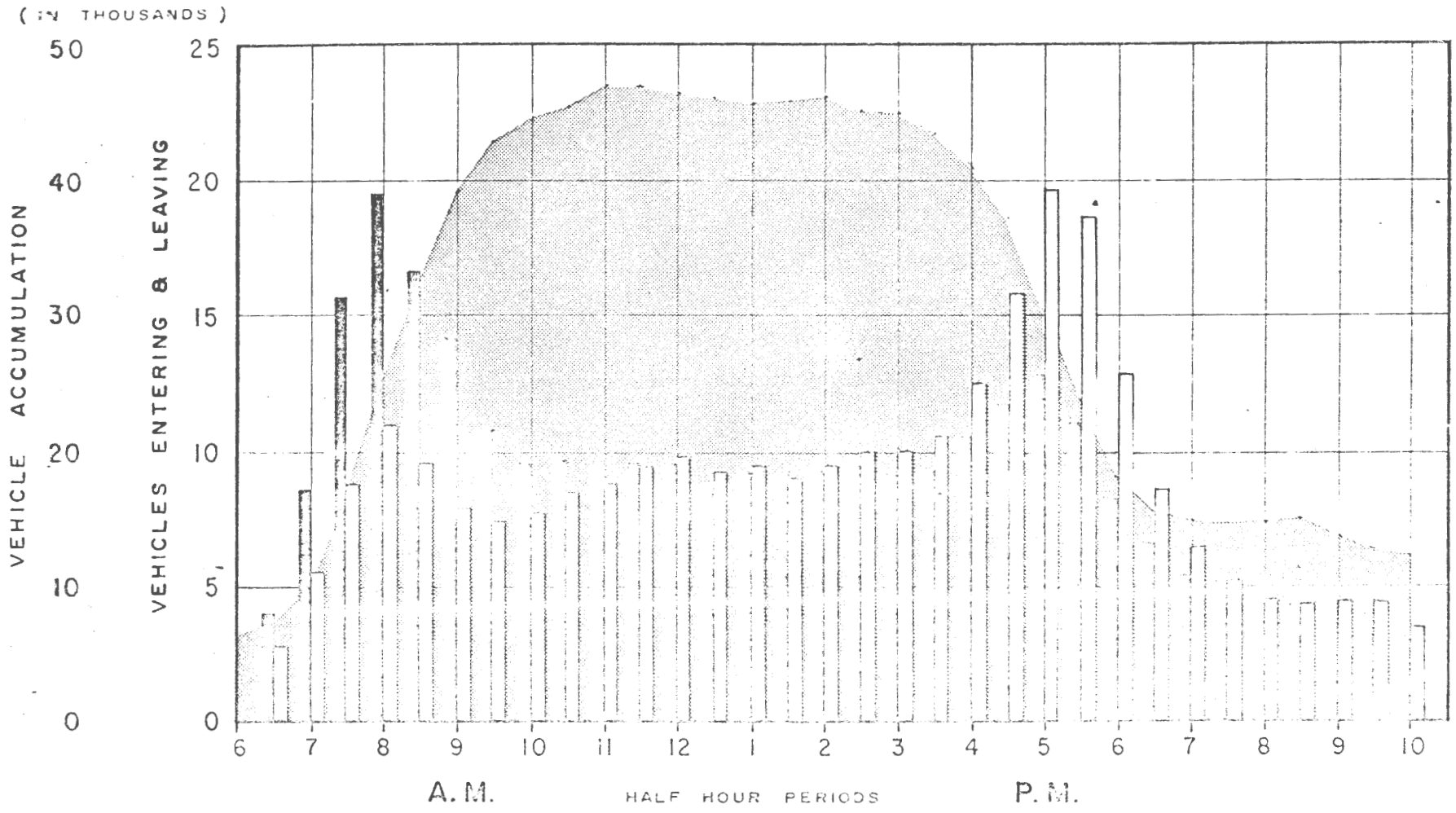
MAY 1963



MODE OF TRANSPORTATION USED BY PERSONS ENTERING DOWNTOWN LOS ANGELES

City of Los Angeles
DEPARTMENT OF TRAFFIC
S. S. Taylor, City Traffic Engr.

PLATE 2



LEGEND

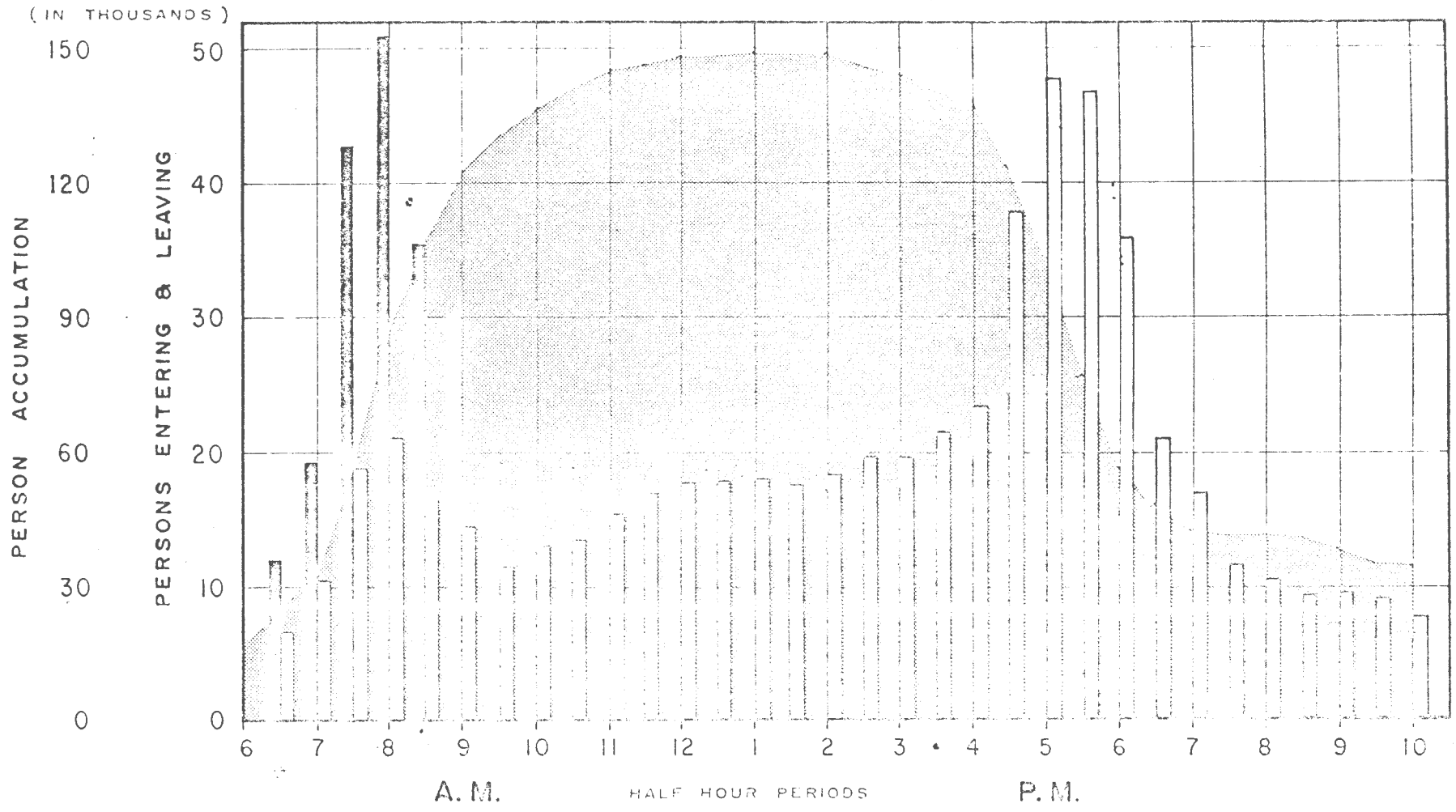
- VEHICLES ENTERING
- VEHICLES LEAVING
- ACCUMULATION

VEHICLES ENTERING, LEAVING, AND ACCUMULATED IN DOWNTOWN AREA

DEPARTMENT OF TRAFFIC

S. S. Taylor, City Traffic Engr.

PLATE 3



LEGEND

- PERSONS ENTERING
- PERSONS LEAVING
- ACCUMULATION

PERSONS ENTERING, LEAVING, AND ACCUMULATED IN DOWNTOWN AREA

[illegible] TRAFFIC

PLATE 4

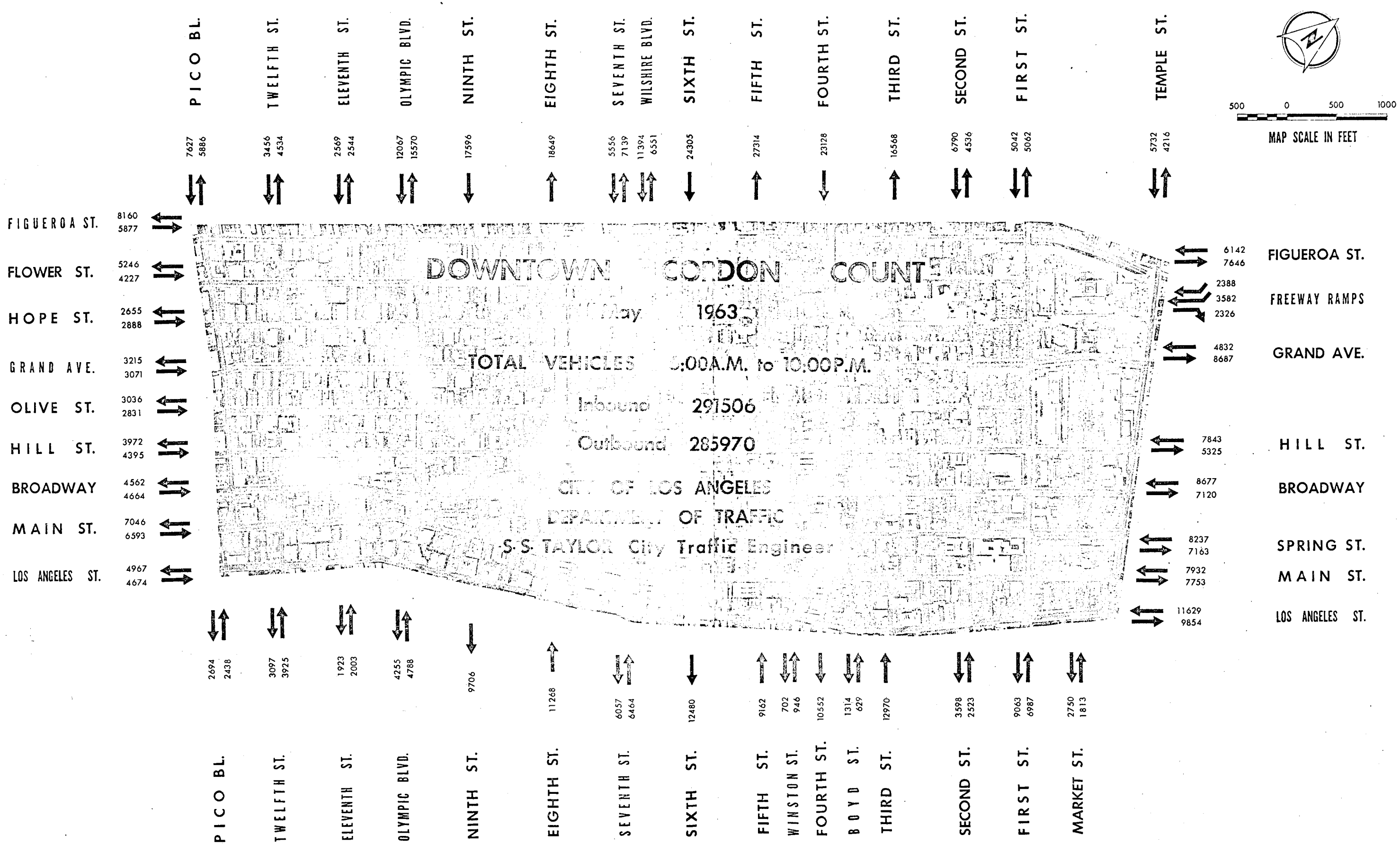

DOWNTOWN CORDON COUNT
May 1963
TOTAL VEHICLES 6:00A.M. to 10:00P.M.
Inbound 291506
Outbound 285970
CITY OF LOS ANGELES
DEPARTMENT OF TRAFFIC
S.S. TAYLOR City Traffic Engineer
PICO BL. 7627 5886
TWELFTH ST. 3456 4534
ELEVENTH ST. 2569 2544
OLYMPIC BLVD. 12067 15570
NINTH ST. 17596
EIGHTH ST. 18649
SEVENTH ST. 5556 7139
WILSHIRE BLVD. 11394 6551
SIXTH ST. 24305
FIFTH ST. 27314
FOURTH ST. 23128
THIRD ST. 16568
SECOND ST. 6790 4536
FIRST ST. 5042 5062
TEMPLE ST. 5732 4216
FIGUEROA ST. 8160 5877
FLOWER ST. 5246 4227
HOPE ST. 2655 2888
GRAND AVE. 3215 3071
OLIVE ST. 3036 2831
HILL ST. 3972 4395
BROADWAY 4562 4664
MAIN ST. 7046 6593
LOS ANGELES ST. 4967 4674
FIGUEROA ST. 6142 7646
FREEWAY RAMPS 2388 3582 2326
GRAND AVE. 4832 8687
HILL ST. 7843 5325
BROADWAY 8677 7120
SPRING ST. 8237 7163
MAIN ST. 7932 7753
LOS ANGELES ST. 11629 9854
PICO BL. 2694 2438
TWELFTH ST. 3097 3925
ELEVENTH ST. 1923 2003
OLYMPIC BLVD. 4255 4788
NINTH ST. 9706
EIGHTH ST. 11268
SEVENTH ST. 6057 6464
SIXTH ST. 12480
FIFTH ST. 9162
WINSTON ST. 702 946
FOURTH ST. 10552
BOYD ST. 1314 629
THIRD ST. 12970
SECOND ST. 3598 2523
FIRST ST. 9063 6987
MARKET ST. 2750 1813
500 0 500 1000
MAP SCALE IN FEET
M. AMMONS 4-9-64

TABLE 2

SUMMARY BY LOCATION

VEHICLES ENTERING AND LEAVING

DOWNTOWN LOS ANGELES, MAY 1963

	Passenger Cars		Trucks & O.V.		Busses		Total Vehicles	
	In	Out	In	Out	In	Out	In	Out
EAST BOUNDARY								
East of Los Angeles St. On:								
Market St.	1545	2312	268	438	0	0	1813	2750
1st St.	5943	7794	856	1091	188	178	6976 6987	9063
2nd St.	2148	3060	375	538	0	0	2523 3599	3598
3rd St.	10768	0	2128	0	74	0	12970	0
Boyd St.	525	1091	104	223	0	0	629	1314
4th St.	0	8761	0	1710	0	81	0	10552
Winston St.	584	787	118	159	0	0	702	946
5th St.	7422	0	1455	0	285	0	9170 9162	0
6th St.	0	10234	0	1758	0	488	0	12480
7th St.	5239	4912	937	1054	288	91	6464	6057
8th St.	8902	0	2227	0	139	0	11268	0
9th St.	0	7671	0	1892	0	143	0	9706
Olympic Blvd.	4123	3660	665	595	0	0	4788	4255
11th St.	1586	1519	417	404	0	0	2003	1923
12th St.	3141	2448	694	573	90	76	3925	3097
Pico Blvd.	1854	2025	584	669	0	0	2438	2694
Total	53780	56274	10828	11104	1064	1057	65672	68435
SOUTH BOUNDARY								
South of Pico Blvd. On:								
Los Angeles St.	3882	4274	792	693	0	0	4674	4967
Main St.	5409	5780	969	1055	215	211	6593	7046
Broadway	4061	3879	392	471	211	212	4664	4562
Hill St.	3781	3380	503	487	111	105	4395	3972
Grand Ave.	2380	2582	397	401	54	53	2831	3036
Hope St.	2582	2638	395	488	94	89	3071	3215
Flower St.	2342	2312	546	576	0	0	2888	2655
Figueroa St.	3720	4461	441	717	66	68	4227	5246
	4771	[illegible]	806	1144	74	75	5877	8160
Total	33154	36247	5241	6032	825	813	39220	43092
WEST BOUNDARY								
West of Figueroa St. On:								
Pico Blvd.	6257	4711	1176	977	194	198	7627	5886
[illegible] St.	3086	4080	460	454	0	0	3546	4534
[illegible] St.	2131	2189	438	355	0	0	2569	2544
Olympic Blvd.	10982	14013	973	1422	112	135	12067	15570
[illegible] St.	15838	0	1602	0	156	0	17596	0
[illegible] St.	0	16786	0	1705	0	158	0	18649
Wilshire Blvd.	4876	6461	392	195	288	483	5556	7139
[illegible] St.	10597	6029	621	353	176	169	11394	6551
[illegible] St.	22604	0	1560	0	141	0	24305	0
[illegible] St.	0	25130	0	2055	0	129	0	27314
[illegible] Viaduct	4014	0	372	0	119	0	4505	0
[illegible] St.	16947	0	1676	0	0	0	18623	0
[illegible] St.	0	14744	0	1717	0	107	0	16568
[illegible] St.	5910	3811	772	620	108	105	6790	4536
Temple St.	4591	4657	451	405	0	0	5042	5062
	4875	3671	779	470	78	75	5732	4216
Total	112708	106282	11272	10728	1372	1559	125352	118569
NORTH BOUNDARY								
North of Temple St. On:								
Figueroa St.	5715	7110	392	499	35	37	6142	7646
Temple Ramp 53 In	2150	0	238	0	0	0	2388	0
Temple Ramp 54 In	3034	0	44	0	504	0	3582	0
Ramp 54 Out	0	2165	0	161	0	0	0	2326
Grand Ave.	4543	7894	289	251	0	542	4832	8687
Hill St.	7061	4636	654	689	128	0	7843	5325
Broadway	7461	6124	964	742	252	254	8677	7120
Spring St.	7495	6304	600	705	142	154	8237	7163
Main St.	6509	6127	1085	1138	338	488	7932	7753
Los Angeles St.	10121	8673	1233	1154	275	27	11629	9854
Total	54089	49033	5499	5339	1674	1502	61262	55874
GRAND TOTAL	253731	247836	32840	33203	4935	4931	291506	285970

TABLE 3

SUMMARY BY LOCATION

PERSONS ENTERING AND LEAVING

DOWNTOWN LOS ANGELES, MAY 1963

	Auto Passengers		Truck Passengers		Bus Passengers		Pedestrians		Total Persons	
	In	Out	In	Out	In	Out	In	Out	In	Out
ST BOUNDARY										
st of Los Angeles St. On:										
rket St.	2287	3378	268	438	0	0	988	1656	3543	5472
st St.	8912	11966	856	1091	6458	6655	1357	1118	17583	20830
nd St.	3072	4199	375	538	0	0	1703	1765	5150	6502
d St.	15844	0	2128	0	1814	0	1405	1233	21191	1233
yd St.	766	1487	104	223	0	0	561	515	1431	2225
h St.	0	12481	0	1710	0	1712	1277	1289	1277	17192
nston St.	873	1086	118	159	0	0	2273	2327	3264	3572
h St.	11182	0	1455	0	7838	0	6711	5398	27186	5398
h St.	0	14441	0	1758	0	11900	5343	4807	5343	32906
h St.	7848	6946	937	1054	7483	2870	4273	4073	20541	14943
h St.	12464	0	2227	0	4319	0	4265	3385	23275	3385
h St.	0	10783	0	1892	0	4315	2909	3106	2909	20096
ympic Blvd.	5769	5039	665	595	0	0	679	730	7113	6364
th St.	2211	2098	417	404	0	0	1134	1220	3762	3722
th St.	4312	3421	694	573	2136	2042	828	816	7970	6852
co Blvd.	2553	2794	584	669	0	0	970	738	4107	4201
Total	78093	80119	10828	11104	30048	29494	36676	34176	155645	154893
UTH BOUNDARY										
uth of Pico Blvd. On:										
s Angeles St.	5601	6292	792	693	0	0	347	405	6740	7390
in St.	7815	8585	969	1055	7304	7036	888	852	16976	17528
oadway	5805	5743	392	471	7529	7700	423	490	14149	14404
ll St.	5448	5007	503	487	3398	3036	563	605	9912	9135
ive St.	3425	3873	397	401	1000	1015	267	241	5089	5530
and Ave.	3560	3635	395	488	2583	3089	786	772	7594	7984
pe St.	3229	3142	546	576	0	0	815	751	4590	4469
owar St.	5230	6191	441	717	1642	1559	631	622	7944	9089
gueroa St.	7360	10097	806	1144	2127	1991	1696	1528	11989	14760
Total	47473	52565	5241	6032	25853	25426	6416	6266	84983	90289
EST BOUNDARY										
est of Figueroa St. On:										
ico Blvd.	8904	6680	1176	977	6565	6436	783	808	17428	14901
2th St.	4271	5788	460	454	0	0	294	251	5025	6493
1th St.	2999	3099	438	355	0	0	203	559	3640	4013
mpic Blvd.	15226	19312	973	1422	3976	3747	596	630	20771	25111
h St.	21866	0	1602	0	4779	0	649	426	28896	426
h St.	0	22873	0	1705	0	4437	449	486	449	29501
lshire Blvd.	6756	8778	392	195	9455	13308	3179	2978	19782	25259
th St.	14728	8169	621	353	4221	4652	2240	2486	21810	15660
th St.	31968	0	1560	0	5667	0	1151	881	40346	881
th St.	0	34914	0	2055	0	4846	931	2754	931	44569
th Viaduct	5656	0	372	0	3209	0	201	119	9438	119
d St.	23912	0	1676	0	0	0	0	0	25588	0
d St.	0	20479	0	1717	0	3292	342	268	342	25756
st St.	8361	5326	772	620	3803	3756	603	447	13539	10149
mple St.	6504	6506	451	405	0	0	171	104	7126	7015
	6957	5197	779	470	2798	2694	371	286	10905	8647
Total	158108	147121	11272	10728	44473	47168	12163	13483	226016	218500
RTH BOUNDARY										
rth of Temple St. On:										
gueroa St.	8590	10381	392	499	622	831	48	99	9652	11810
mple Ramp 53 In	3136	0	238	0	0	0	0	0	3374	0
mple Ramp 54 In	4353	0	44	0	13582	0	0	0	17979	0
pe Ramp 54 Out	0	3251	0	161	0	0	0	0	0	3412
and Ave.	7390	12318	289	251	0	17839	132	117	7811	30525
ll St.	11653	7499	654	689	3352	0	403	310	16062	8498
oadway	12439	9476	964	742	6990	7181	1176	782	21589	18181
ring St.	11634	9581	600	705	3132	3477	2095	2283	17461	16046
in St.	10117	9411	1085	1138	7761	8919	3151	2706	22114	22174
s Angeles St.	15858	13430	1233	1154	5544	715	409	337	23044	15636
Total	85170	75347	5499	5339	40983	38962	7434	6634	139086	126282
GRAND TOTAL	368844	355152	32840	33203	141357	141050	62689	60559	605730	589964

TABLE 4

SUMMARY BY HALF HOUR PERIODS

VEHICLES ENTERING, LEAVING AND ACCUMULATED

DOWNTOWN LOS ANGELES

MAY, 1963

Time Period Ending	Passenger Cars			Trucks and Other Vehicles			Busses			Total Vehicles		
	In	Out	Accum.	In	Out	Accum.	In	Out	Accum.	In	Out	Accum.
0600			6000			500			100			6600
0630	3488	2373	7115	351	303	548	141	118	123	3980	2794	7786
0700	7407	4731	9791	913	659	802	161	144	140	8481	5534	10733
0730	13605	7510	15886	1652	1074	1380	338	208	270	15595	8792	17536
0800	16870	9349	23407	2068	1335	2113	329	228	371	19267	10912	25891
0830	14524	8147	29784	1790	1115	2788	251	188	434	16565	9450	33006
0900	12391	6826	35349	1513	947	3354	218	173	479	14122	7946	39182
0930	9425	6265	38509	1196	843	3707	155	152	482	10776	7260	42698
1000	8258	6599	40168	1085	919	3873	131	133	480	9474	7651	44521
1030	8356	7278	41246	1111	1009	3975	148	140	488	9615	8427	45709
1100	8468	7591	42123	1138	1067	4046	122	125	485	9728	8783	46654
1130	8168	8157	42134	1080	1138	3988	145	140	490	9393	9435	46612
1200	8295	8530	41899	1126	1183	3931	120	133	477	9541	9846	46307
1230	7701	7935	41665	1011	1088	3854	143	140	480	8855	9163	45999
1300	7878	8112	41431	1062	1125	3791	119	134	465	9059	9371	45687
1330	8007	7803	41635	1063	1086	3768	143	137	471	9213	9026	45874
1400	8277	8179	41733	1121	1129	3760	117	125	463	9515	9433	45956
1430	8238	8628	41343	1098	1188	3670	145	134	474	9481	9950	45487
1500	7893	8659	40577	1082	1176	3576	129	145	458	9104	9980	44611
1530	8025	9138	39464	1053	1245	3384	183	155	486	9261	10538	43334
1600	9075	10766	37773	1240	1452	3172	174	175	485	10489	12393	41430
1630	10136	13875	34034	1382	1807	2747	237	267	455	11755	15949	37236
1700	11131	17176	29789	1545	2260	2032	222	294	383	12898	19730	30404
1730	9480	16153	21316	1281	2100	1213	213	318	278	10974	18571	22807
1800	7099	11264	17151	923	1377	759	180	295	163	8202	12936	18073
1830	5582	7776	14957	703	954	508	151	175	139	6436	8905	15604
1900	4667	5582	14042	584	686	426	126	144	121	5377	6392	14589
13 Hr. Total	232444	224402		30186	30230		4541	4520		267171	259152	
1930	4451	4553	13940	540	554	412	99	105	115	5090	5212	14467
2000	4248	3933	14255	536	506	442	67	69	113	4851	4508	14810
2030	3802	3733	14324	456	470	428	72	74	111	4330	4277	14863
2100	3132	4024	13432	395	521	302	50	46	115	3577	4591	13849
2130	2969	3890	12511	377	495	184	58	67	106	3404	4452	12801
2200	2685	3190	12006	350	412	122	48	50	104	3083	3652	12232
16 Hr. Total	253731	247836		32840	33203		4935	4931		291506	285970	

all less

all periods less

TABLE 5

SUMMARY 1 HALF HOUR PERIODS

PERSONS ENTERING LEAVING AND ACCUMULATED

DOWNTOWN LOS ANGELES

MAY, 1963

59226
148,149

Time Period Ending	Auto Passengers				Passengers In Other Vehicles			Bus Passengers				Pedestrians				Total Persons		
	In	Out	Accum.		In	Out	Accum.	In	Out	Accum.		In	Out	Accum.		In	Out	Accum.
0600			7000				500			6000				4500				18000
0630	5237	3138	9099		351	303	548	5525	2467	9058		850	516	4834		11963	6424	23539
0700	10638	6001	13736	6.7	913	659	802	6132	2469	12721	6.1	1519	938	5415	9.2	19202	10067	32674
0730	21998	9747	25987		1652	1074	1380	6030	5371	23380		2954	1280	6089		42634	18472	56836
0800	27505	11608	41884	34.9	2068	1335	2113	6448	5413	34415	28.4	4901	1469	8521	4.0	50922	20825	86933
0830	20412	9940	52356		1790	1115	2788	9641	3153	40903		3515	1892	10144		35358	16100	106191
0900	16336	8390	60302	53.3	1513	947	3354	9196	3130	46969	40.9	2688	1507	11325	6.8	29733	13974	121950
0930	12015	7842	64475		1196	843	3707	4417	1670	49716		2050	1258	12117		19678	11613	130015
1000	11159	8561	67073	60.1	1085	919	3873	4352	1666	52402	46.4	1922	1454	12585	8.1	18518	12600	135933
1030	11268	9442	68899		1111	1009	3975	4012	1926	54488		1959	1551	12993		18350	13928	140355
1100	11193	10191	69901	62.9	1138	1067	4046	4027	1997	56518	50.5	1995	1627	13361	8.9	18353	14882	143826
1130	11247	11135	70013		1080	1138	3988	3677	2428	57767		2132	1968	13525		18136	16669	145293
1200	11699	11808	69904	62.9	1126	1183	3931	3742	2509	59000	53.0	2446	2087	13884	9.4	19013	17587	146719
1230	11464	11465	69903		1011	1088	3854	3099	2887	59212		2972	2421	14435		18546	17861	147404
1300	11330	11234	69999	63.0	1062	1125	3791	3144	2916	59440	53.4	2480	2615	14300	9.8	18016	17890	147530
1330	11806	10906	70899		1063	1086	3768	2974	3188	59226		2204	2248	14256		18047	17428	148149
1400	11864	11636	71127	64.1	1121	1129	3760	2948	3275	58899	52.9	1734	1923	14067	9.6	17667	17963	147853
1430	11302	12496	69933		1098	1188	3670	2960	3798	58061		2117	2234	13950		17477	19716	145614
1500	10893	11968	68858	61.9	1082	1176	3576	2921	3966	57016	51.0	1961	2143	13768	9.3	16857	19253	143218
1530	11251	12814	67295		1053	1245	3384	4028	5154	55890		2256	2183	13841		18588	21396	140410
1600	12739	14729	65305	58.3	1240	1452	3172	4055	5320	54625	48.6	2088	2282	13647	9.1	20122	23783	136749
1630	14063	19974	59394		1382	1807	2747	5654	12333	47946		2936	3402	13181		24035	37516	123268
1700	15973	27167	48200	41.2	1545	2260	2032	5590	12845	40691	34.7	3411	5316	11276	6.8	26519	47588	102199
1730	13290	26038	35452		1281	2100	1213	3644	14523	29812		2025	3762	9539		20240	46423	76016
1800	9980	17315	28117	27.1	923	1377	759	3649	14437	19024	13.0	1218	2363	8394	3.9	15770	35492	56294
1830	8161	11777	24501		703	954	508	2220	6168	15076		992	1806	7580		12076	20705	47665
1900	7459	8810	23150	16.2	584	666	426	2187	5752	11511	5.5	1047	1436	7191	2.7	11277	16664	42278
13 Hr. Total	332282	316132			30186	30230		5272	130761			58372	55681			557112	532804	
1930	7744	7543	23351		540	554	412	1093	2512	10092		867	963	7095		10244	11572	40950
2000	7327	6756	23922	16.9	536	506	442	1101	2176	9017	3.0	923	880	7138	2.6	9887	10318	40519
2030	6787	6319	24390		456	470	428	792	1591	8218		795	826	7107		8830	9206	40123
2100	5293	6686	22997	16.0	395	521	302	800	1395	7623	1.6	618	761	6964	2.5	7106	9363	37886
2130	4818	6385	21430		377	495	184	650	1359	6914		653	787	6830		6498	9026	35358
2200	4593	5111	20912	13.9	350	412	122	649	1256	6307	.3	461	652	6639	2.1	6053	7431	33980
16 Hr. Total	368844	355152			32840	33203		1357	141050			62689	60559			605730	589964	

237.1
Total 605730