

# **ATTACHMENT 5**

## **TRAFFIC GENERATION REPORT**

# TRAFFIC GENERATION REPORT

[Los Angeles International Airport / August 2013]



*Los Angeles  
World Airports*

Prepared by Capital Programming & Planning Group / December 2013

## Executive Summary:

Per Section G, *Monitoring and Reporting*, of the Los Angeles International Airport Specific Plan, Los Angeles World Airports (LAWA) is required to prepare an annual Traffic Generation Report. This traffic report shall identify "the current number of Trips being generated by LAX, the number of Trips anticipated to be generated at the completion of any Master Plan Project(s) in development at the time of the report, the Trips proposed to be generated following the implementation of the Master Plan as informed by current and Project-based Trip counts, and the number of Trips anticipated to be generated by on-going Master Plan construction activities."

This study is the ninth Traffic Generation Report to be completed since the Los Angeles City Council's approval of the LAX Master Program in December 2004.

The Environmental Impact Report (EIR) for the LAX Master Plan forecasted 8,236 net new trips during the airport peak hour at full build-out and after implementation of mitigation measures.

The typical design day used for the LAX Master Plan is a Friday in August. The total number of trips for the airport peak hour of 11 am to noon is as follows:

<b>1996 Airport Peak Hour Volume (Base Year)</b>	<b>17,725 trips</b>
<b>2013 Airport Peak Hour Volume</b>	<b>14,403 trips</b>
<b>2015 Airport Peak Hour Volume (Projected)</b>	<b>26,011 trips</b>

These volumes show that the August 2013 airport peak-hour volume does not exceed 8,236 additional trips above the base-year total of 17,725 trips and is in fact 3,322 trips less than the 1996 base year volumes.

The results of the August 2013 traffic volume study also reveal that there were 10,425 trips recorded at LAX during the 8 am to 9 am peak hour and 12,218 trips in the 5 pm to 6 pm peak hour. This represents 1,553 fewer trips during the morning peak hour in August 2013 than during the same hour in the 1996 base year, and 669 fewer evening peak hour trips in August 2013 than during the 1996 base year.

## Methodology:

The following methodology was used in calculating the overall traffic volumes accessing and egressing LAX. The Land Use and Development Section of the Los Angeles Department of Transportation (LADOT) approved this methodology, which has been used consistently for the LAX Traffic Generation reports annually since 2005.

**LAX Central Terminal Area (CTA) Roadways:**

All traffic entering and exiting the LAX CTA is recorded by LAWA's Traffic and Automated Vehicle Identification System (TRAVIS), which include electro-magnetic loop detectors imbedded in each travel lane of the roadways. Vehicle type is not distinguished by these loops; therefore, each vehicle regardless of size is considered as a single trip either into or out of the LAX CTA. A "trip" is defined as the entrance or exit of a vehicle from the airport or airport-related property as studied in the LAX Master Plan Final EIR. Traffic information is continuously recorded on a computer database and is retrievable by LAWA staff for a variety of time intervals, including hourly counts.

Counts for the LAX Master Plan design day (a Friday in August) were retrieved from the database and averaged for the morning (8 am to 9 am), airport (11 am to noon) and evening (5 pm to 6 pm) peak hours. Table 1 shows the number of inbound and outbound trips for the three peak periods studied during each Friday in August 2013, along with the average number of trips.

**LAX Central Terminal Area - Traffic Volumes by Direction**

Date	Inbound			Outbound		
	8-9 AM	11AM- Noon	5-6 PM	8-9 AM	11AM- Noon	5-6 PM
8/02/13	3,395	4,372	3,536	2,623	3,847	3,846
8/09/13	3,263	4,557	3,546	2,581	4,691	4,134
8/16/13	3,337	4,595	3,365	3,003	4,634	4,047
8/23/13	3,282	4,565	3,473	2,952	4,670	3,995
8/30/13	3,448	4,664	3,709	2,984	4,579	4,160
<b>Average</b>	<b>3,345</b>	<b>4,551</b>	<b>3,526</b>	<b>2,829</b>	<b>4,484</b>	<b>4,036</b>

**Table 1**

The total number of trips into and out of the LAX CTA on each of the Fridays in August 2013, along with their averages, is summarized in Table 2.

**LAX Central Terminal Area - Total Traffic Volumes**

Date	Total		
	8-9 AM	11AM- Noon	5-6 PM
8/02/13	6,018	8,219	7,382
8/09/13	5,844	9,248	7,680
8/16/13	6,340	9,229	7,412
8/23/13	6,234	9,235	7,468
8/30/13	6,432	9,243	7,869
<b>Average</b>	<b>6,174</b>	<b>9,035</b>	<b>7,562</b>

**Table 2**

World Way West:

All traffic eastbound and westbound on World Way West east of Pershing Drive was recorded through the use of automated traffic counters temporarily installed by the Los Angeles Department of Transportation at the LAWA's request. The volumes recorded on World Way West account for traffic heading to and leaving airport facilities on the west side of LAX.

Driveways

Traffic during the three peak hours was counted at over 60 driveways by Metro Traffic Data Inc., a privately owned and operated traffic data collection company under contract by LAWA. Individual counts were required at these locations because traffic volumes are not recorded by the automated, loop-detector system. See **Figure 1** for a map of the facilities at which driveway counts were recorded. Traffic entering and exiting a roadway or driveway was counted in three separate vehicular categories – cars, trucks and shuttles.

Metro Traffic Data Inc. recorded traffic at the following cargo facility driveways on Friday, August 16, 2013:

***Cargo/Ancillary Facilities:***

Aviation Blvd (west leg of intersection) locations:

- 104<sup>th</sup> Street
- 111<sup>th</sup> Street

Century Blvd (south leg of intersection) locations:

- Avion Drive
- Airport Blvd
- Postal Road
- International Road

Imperial Highway (north leg of intersection) locations:

- Imperial Terminal
- California Street
- Hughes Way
- Unsignalized driveway east of Hughes Way
- Kilroy Center Drive
- Douglas Street
- Unsignalized driveway between Kilroy Center Drive and Aviation Blvd

Five driveways along the north side of Imperial Highway and one driveway along the south side of Century Blvd have very limited traffic volumes throughout the day. For the



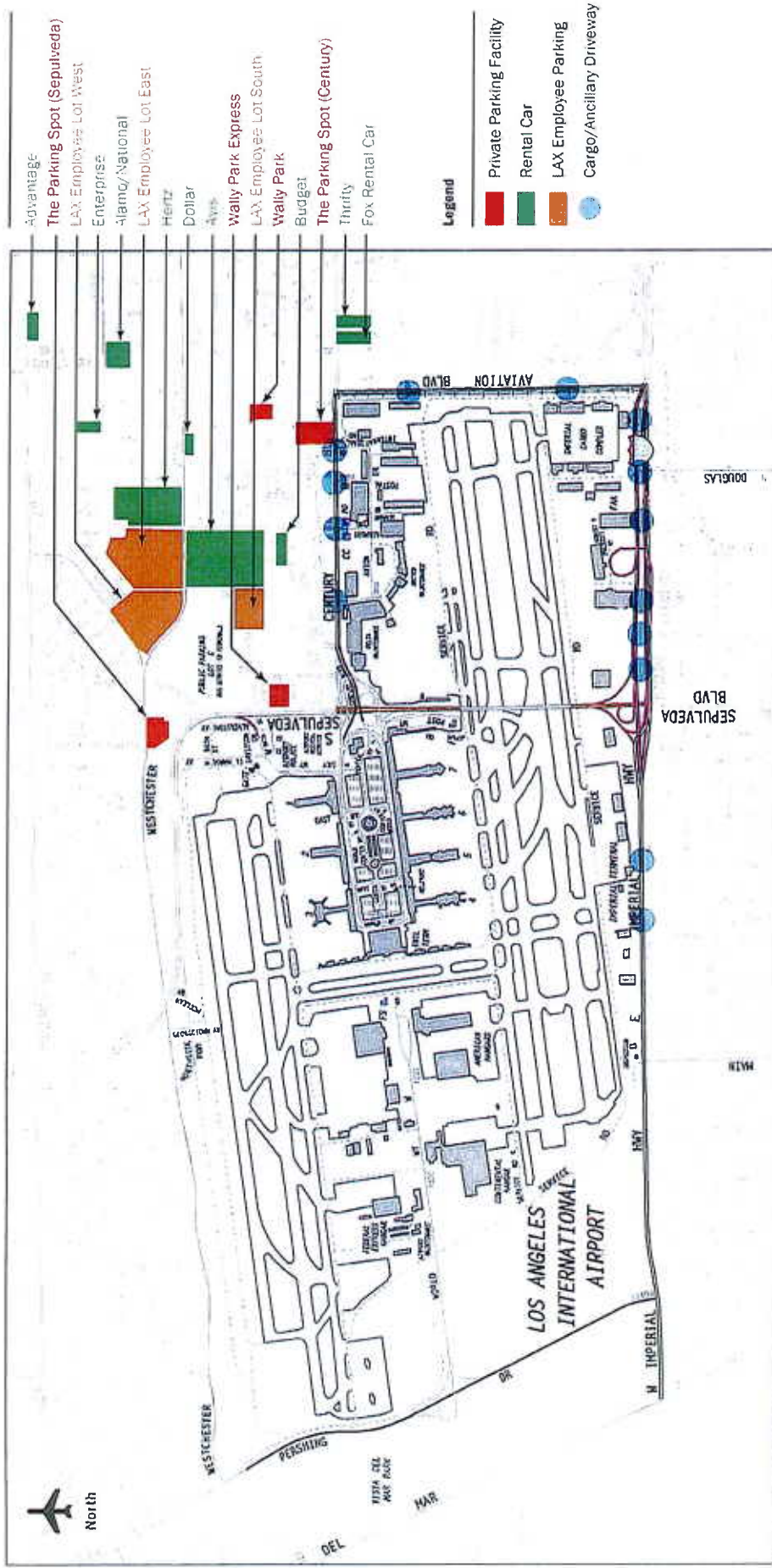


Figure 1

purposes of this study, a total of 50 vehicles was added to the cargo/ancillary traffic volumes recorded for each peak hour to account for the traffic using these six driveways. Because traffic entering and exiting these minor driveways is infrequent, this estimate represents a conservatively high volume of traffic for these six driveways.

***Airport Operated Public Parking Lots***

Traffic counts were conducted at the following airport-operated Parking Lot C driveways:

- Two entrance driveways on 96<sup>th</sup> Street west of Vicksburg Avenue
- Exit driveway on Jenny Avenue
- Entrance driveway on Westchester Parkway

***Airport Operated Employee Parking Lots***

- Employee Lot West Entrance/Exit Driveway on Westchester Parkway
- Employee Lot East Entrance/Exit Driveway on Jenny Ave n/o Westchester Pkwy
- Employee Lot South Entrance/Exit Driveway on Jenny Ave s/o Westchester Pky
- Airport Police – Two driveways on 96<sup>th</sup> Street west of Alverstone Avenue

***Rental Car Locations:***

There are ten car rental companies that are allowed to provide shuttle service between the LAX CTA and their facility. The number of autos and shuttles entering and exiting the following locations were recorded at the following locations:

Advantage Rent a Car – Manchester Blvd between Isis Ave and Hindry Ave

- Driveway on Manchester Blvd east of Isis Ave
- Car return driveway on Isis Ave south of Manchester Blvd

Alamo and National – Aviation Blvd and Hillcrest Blvd, SE corner:

- Three driveways on Aviation Blvd south of Hillcrest Blvd
- Car return driveway on Hillcrest Blvd east of Aviation Blvd

Avis – Airport Blvd/Westchester Pkwy/Jenny Ave:

- Driveway on Airport Blvd south of Westchester Parkway
- Three driveways on Jenny Ave

Budget – Airport Blvd and 98<sup>th</sup> Street, NW corner:

- Two driveways on Airport Blvd
- Two driveways on 96<sup>th</sup> Place
- Driveway on 98<sup>th</sup> Street

Dollar – Arbor Vitae Street, south side, west of Bellanca Ave:

- Three driveways on Arbor Vitae Street
- Car return driveway on Bellanca Ave south of Arbor Vitae Street

Enterprise – Bellanca Ave between Manchester Ave and Arbor Vitae St:

- Four driveways on Bellanca Ave

Fox/Payless – Century Blvd, south side, between Aviation Blvd and Concourse Way:

- Driveway at 5500 West Century Blvd

Hertz – Airport Blvd between Interceptor Street and Arbor Vitae Street:

- Shuttle entrance driveway on Airport Blvd north of Arbor Vitae Street
- Driveway on Interceptor Street east of Airport Blvd
- Two exit driveways on Arbor Vitae Street

Thrifty – Century Blvd, south side, between Aviation Blvd and Concourse Way:

- Driveway on Century Blvd
- Driveway on Concourse Way south of Century Blvd

***Off-Airport Rental Car Companies/ Cell Phone Waiting Lot:***

Off-airport car rental companies are not permitted to drop off or pickup customers in the CTA. Unlike the on-airport car rental companies, no off-airport car rental driveways were included in the traffic count. The official pickup and drop-off location for these companies is located within a portion of Lot C, on the north side of 96<sup>th</sup> Street immediately west of Vicksburg Avenue. However, this facility is rarely used by off-airport rental car companies and no additional traffic was included in the trip totals.

This location performs a separate duty as the LAX Cell Phone Waiting Lot. Drivers in private vehicles are permitted to wait in this lot before coming into the CTA to pick up passengers. Vehicles were not counted when they entered and exited the Cell Phone Waiting Lot since they were counted when they entered and exited the CTA to pick up their party at the terminal.

***Private Airport Parking Facilities:***

Traffic was recorded at the following private parking facility driveways. These facilities are exclusively used for parking and are not affiliated with a hotel or office building. It was conservatively assumed that all traffic entering or exiting these facilities is airport related. Since in reality these facilities cater to customers unrelated to the airport, the traffic volumes used in this report are likely to be somewhat inflated.



Park One<sup>1</sup> – Sepulveda Blvd from Century Blvd to 96<sup>th</sup> Street:

- Driveway on 96<sup>th</sup> Street west of Alverstone Ave (this is a joint use driveway with the airport police parking lot)
- Driveway on "Little" Century Blvd

The Parking Spot – Bellanca Ave from Century Blvd to 98<sup>th</sup> Street:

- Driveways on Bellanca Ave
- Driveway on 98<sup>th</sup> Street
- Car entrance driveway on Century Blvd

Valet AirPark – Sepulveda Blvd and 96<sup>th</sup> Street, SE corner:

- Driveway on 96<sup>th</sup> Street east of Sepulveda Blvd
- Driveway on Vicksburg Ave south of 96<sup>th</sup> Street

Wally Park – Bellanca Ave, east side, north of 98<sup>th</sup> Street:

- Two driveways on Bellanca Ave

Westchester Parking Spot – Sepulveda Blvd/Westchester Pkwy/Sepulveda Eastway:

- Driveway on Sepulveda Westway
- Driveway on Westchester Pkwy

***Other Private Airport Parking Facilities:***

Like the private parking facilities referenced above, other off-airport, private parking operators also provide shuttle service for their customers to and from LAX terminals. However, these parking operators also cater to customers who park in their facilities but who are not going to the airport. Therefore, the following methodology was established to estimate the volume of airport trips at these joint-use parking facilities where manual traffic counts were not conducted.

Using the volume of car trips and the volume of shuttle trips manually recorded at large parking facilities such as Wally Park and The Parking Spot, the following trip generation factors were calculated:

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<sup>1</sup> The Park One property was purchased by LAWA in July 2009. However, a private parking operator continues to conduct business on this site.

**Private Parking Car Trips per Inbound Shuttle**

AM 163 trips/ 49 shuttles = 3.33 trips/shuttle  
 AP 112 trips/ 39 shuttles = 2.87 trips/shuttle  
 PM 84 trips/ 61 shuttles = 1.38 trips/shuttle

**Private Parking Car Trips per Outbound Shuttle**

AM 38 trips/ 68 shuttles = 0.56 trips/shuttle  
 AP 129 trips/ 61 shuttles = 2.11 trips/shuttle  
 PM 182 trips/ 64 shuttles = 2.84 trips/shuttle

The number of shuttles recorded in the LAX CTA on five Fridays in August 2013 by the joint-use parking businesses was obtained from the TRAVIS database. It is assumed that the same number of car trips per shuttle trip made by facilities such as Wally Park or The Parking Spot would also be generated by other off-airport parking facilities. The total number of shuttle trips made during each peak hour on Fridays in August 2013 by the joint-use, off-airport parking facilities is shown in Table 3.

**Shuttle Trips by Other Off-Airport Parking Facilities - Inbound to Lot**

Date	Peak Hour		
	AM	AP	PM
8/02/2013	36	38	40
8/09/2013	32	32	48
8/16/2013	32	37	46
8/23/2013	47	41	44
8/30/2013	49	37	38
<b>Rounded Average</b>	<b>39</b>	<b>37</b>	<b>43</b>

**Shuttle Trips by Other Off-Airport Parking Facilities - Outbound From Lot**

Date	Peak Hour		
	AM	AP	PM
8/02/2013	53	46	44
8/09/2013	49	34	49
8/16/2013	46	40	41
8/23/2013	52	39	45
8/30/2013	60	48	48
<b>Rounded Average</b>	<b>52</b>	<b>42</b>	<b>46</b>

Table 3

Multiplying the calculated trips-per-shuttle ratios with the average number of shuttle trips attributable to the off-airport private parking facilities where driveways were not manually recorded results in the totals shown in **Table 4**. This provides an estimate of the number of inbound and outbound car trips generated at the remaining parking facilities that is related to LAX.

**Inbound Car Trips for Off-Airport Parking Facilities  
Where Driveways Were Not Counted**

Peak Hour	Adjustment Factor (Trips per Shuttle)		Number of Shuttles		No. of Trips
AM	3.33	X	39	=	130
Airport	2.87	X	37	=	106
PM	1.38	X	43	=	60

**Outbound Car Trips for Off-Airport Parking Facilities  
Where Driveways Were Not Counted**

Peak Hour	Adjustment Factor (Trips per Shuttle)		Number of Shuttles		No. of Trips
AM	0.56	X	52	=	29
Airport	2.11	X	42	=	89
PM	2.84	X	46	=	131

**Table 4**

To be consistent with the methodology used in the Environmental Impact Report for the LAX Master Plan and avoid "double counting," shuttle trips from private and public parking lots and from rental car facilities are only counted as they enter and exit the Central Terminal Area. For example, a shuttle bus that exits the Avis rental car facility and enters the CTA is counted as a single trip. The shuttle makes another trip once it exits the CTA; but not when it enters the Avis driveway.

**LAX Master Plan Projects Currently Under Construction:**

The Bradley West Project includes construction of new north and south concourses at Tom Bradley International Terminal (TBIT) just west of the existing concourses (which will be demolished), construction of nine aircraft gates and their associated loading bridges and apron areas, relocation and consolidation of existing aircraft gates along the east side of TBIT, renovation, improvement and enlargement of the existing concessions areas, U.S. Customs and Border Protection areas, office and operations areas.

Section 7G, *Monitoring and Reporting*, of the Los Angeles International Airport Specific Plan states that the annual Traffic Generation Report is to identify “the number of Trips anticipated to be generated at the completion of any Master Plan Project in development at the time of the report.” **Table 5<sup>2</sup>** below shows the estimated increase in the number of trips associated with the Tom Bradley International Terminal. The trip estimates are considered conservatively high in that they assume all of the growth in TBIT-related vehicle trips between 2008 (base year) and 2013 (start of operation for Bradley West) is attributable to the Bradley West project. Even if these trips forecasted for the full build-out of TBIT were to be added to the existing peak-hour traffic volumes recorded at LAX, the totals would remain far below the number of peak-hour trips projected in the LAX Master Plan.

**Tom Bradley International Terminal Trip Generation**

**Future (2013) With Project  
Minus Existing (2008)  
Conditions**

Peak Hour/ Location	In	Out	Total
<b>8 - 9 AM</b>			
CTA	522	685	1,207
Airport Parking	6	13	19
Employee Parking	158	47	205
Rental Car	30	195	225
Off-Airport Parking	8	26	34
<b>TOTAL</b>	<b>724</b>	<b>966</b>	<b>1,690</b>
<b>11 AM - Noon</b>			
CTA	713	804	1,517
Airport Parking	12	13	25
Employee Parking	61	33	94
Rental Car	102	159	261
Off-Airport Parking	21	18	39
<b>TOTAL</b>	<b>909</b>	<b>1,027</b>	<b>1,936</b>
<b>5- 6 PM</b>			
CTA	593	470	1,063
Airport Parking	31	2	33
Employee Parking	87	122	209
Rental Car	202	11	213
Off-Airport Parking	35	3	38
<b>TOTAL</b>	<b>948</b>	<b>608</b>	<b>1,556</b>

Table 5

<sup>2</sup> Table 4.2-3 of the Environmental Impact Report for the Bradley West Project.

## Other LAWA Projects:

Other stand-alone LAWA projects that are not part of the LAX Master Plan were completed this year or are currently under construction. While these projects contribute to construction-related traffic, these trips are often during off-peak hours and are temporary in nature. These projects include:

- **Employee Lot East (Completed)**

This project created 2,100 employee parking spaces in LAWA-owned property between Airport Boulevard and Jenny Avenue, north of Westchester Parkway. This parking lot opened in July 2013. Airport employees who had been parking in Lot E, located on the north side of 111<sup>th</sup> Street between Aviation and La Cienega Boulevards, were relocated to Employee Lot East and Employee Lot South (see below). While a small portion of Lot E remains open for recreational vehicle parking for LAX-employees, its traffic generation is miniscule.

- **Employee Lot South (Completed)**

This employee "spillover" lot was carved out of the southeastern portion of public parking Lot C and contains approximately 1,000 parking stalls. The parking lot was opened to employees in July 2013.

- **Central Utility Plant (Under construction)**

This project will replace the existing Central Utility Plant (CUP) which provides heating and cooling to the LAX Central Terminal Area. The project includes replacement of the CUP, the maintenance shop building, boilers and electrical co-generation equipment and the cooling tower system. A thermal energy storage tank will be constructed at the site of the existing CUP. The project also includes replacement of the direct buried chilled water and hot water service lines in the CTA. This project, currently under construction, is scheduled for completion in the second half of 2014.

- **Escalator/Elevator Upgrades (Under construction)**

This project, currently under construction, is upgrading the escalators and elevators in the Central Terminal Area.



## Summary of Peak Hour Counts:

Subsection C, *Project Trip Generation*, of Section 12, *Transportation Regulations*, of the Los Angeles International Airport Specific Plan uses the airport peak hour as its basis for comparison between the 1996 base year volume, the current traffic volume and the projected 2015 traffic volume under the LAX Master Plan EIR.

A summary of the final traffic datum is presented in **Table 6** (AM Peak), **Table 7** (Airport Peak) and **Table 8** (PM Peak). The Los Angeles International Airport Specific Plan uses the Airport Peak Hour (11 AM to Noon) as its basis for comparison between the 1996 base year volume, the current traffic volume and the projected 2015 traffic volume with the full build-out of the LAX Master Plan. For 2013, the total volume of traffic is 14,403 vehicle trips in the Airport Peak Hour on a Friday in August. This total is 3,322 lower than the 17,725 vehicles for the 1996 base year of the LAX Master Plan Environmental Impact Report. The Airport Peak Hour traffic volumes for the last nine years, along with the traffic volume projected in the LAX Master Plan EIR for 2015, are shown on **Figure 2**.

As expected, the Airport Peak Hour traffic count total is higher than the counts recorded for the AM and PM peak hours. The August 2013 AM peak hour volume is 10,425 (compared with 11,978 vehicles in 1996) and the August 2013 PM peak hour volume is 12,218 (compared with 12,887 vehicles in 1996).

## FlyAway Program:

LAWA has implemented various trip reduction programs since City Council approved the LAX Master Plan in December 2004. The LAX FlyAway, a low-cost shuttle service operating between a remote parking facility and LAX, has been operating from Van Nuys Airport since 1975. The FlyAway program was expanded in March 2006 to include Union Station in downtown Los Angeles, in June 2007 to serve Westwood/UCLA, and in November 2009 to serve the Irvine Transportation Center. The Irvine FlyAway service was terminated in Summer 2012 due to contractual issues with the bus operator and low ridership. A new FlyAway service at the Expo Light Rail Line at the LaBrea Avenue station began operation in Spring 2013. Additional planned sites are Santa Monica, Hollywood, Torrance, and a connection with the Orange Line in the San Fernando Valley at the Woodley Avenue station. The ridership totals for the month of August during the last nine years are shown in **Figure 3**. Overall, FlyAway ridership increased over 170% from August 2005 to August 2013. The FlyAway program has helped to reduce the number of private vehicles into and out of the LAX Central Terminal Area.

## TRIP GENERATION SUMMARY FOR LAX - 8 AM TO 9 AM

Airport Facility	1996 (Tech'l Report 3b, Attachment "A")	2005 Traffic Counts	2006 Traffic Counts	2007 Traffic Counts	2008 Traffic Counts	2009 Traffic Counts	2010 Traffic Counts	2011 Traffic Counts	2012 Traffic Counts	2013 Traffic Counts	2015 Alternative D (Tech'l Report S-2b, Attachment "A")
CTA	6,989	6,437	7,750	6,771	6,383	6,229	6,274	6,295	6,388	6,174	1,204
GTC	0	0	0	0	0	0	0	0	0	0	5,466
ITC	0	0	0	0	0	0	0	0	0	0	2,793
RAC/Rental Car Facilities	775	1,195	1,342	1,261	1,239	956	1,011	1,038	1,273	1,042	716
LAX Public Parking Lots	114	185	149	145	165	145	100	87	68	84	115
Employee Parking	269	448	493	534	524	446	393	387	417	436	853
Private Parking (1)	275	230	389	427	388	359	331	294	285	360	243
World Way West	525	536	649	580	648	598	503	490	559	544	1,688
Cargo and Ancillary (2)	3,031	1,953	1,891	2,036	1,971	1,641	1,733	2,031	1,914	1,765	3,412
LAX Northside (3)	0	0	0	0	20	20	20	20	20	20	3,922
Manchester Square (misc)	0	0	0	0	0	0	0	0	0	0	212
Trip Reduction Adjustment	0	0	0	0	0	0	0	0	0	0	-2,150
<b>TOTAL</b>	<b>11,978</b>	<b>10,984</b>	<b>12,663</b>	<b>11,754</b>	<b>11,338</b>	<b>10,394</b>	<b>10,365</b>	<b>10,642</b>	<b>10,924</b>	<b>10,425</b>	<b>18,474</b>

(1) Park One traffic on "Little" Century Boulevard is included in the CTA traffic count

(2) 50 vehicle trips were added to the 2005 through 2012 counts to account for traffic at 6 minor driveways (5 of which are on Imperial Hwy)

(3) 20 vehicle trips were added to the 2008 through 2012 counts to account for traffic at the fire station on Emerson Avenue n/o Westchester Parkway

Table 6

## TRIP GENERATION SUMMARY FOR LAX - 11 AM TO NOON

Airport Facility	1996 (Tech'l Report 3b, Attachment "A")	2005 Traffic Counts	2006 Traffic Counts	2007 Traffic Counts	2008 Traffic Counts	2009 Traffic Counts	2010 Traffic Counts	2011 Traffic Counts	2012 Traffic Counts	2013 Traffic Counts	2015 Alternative D (Tech'l Report S-2b, Attachment "A")
CTA	11,439	9,995	9,841	9,346	9,419	9,021	9,312	9,000	9,046	9,035	48
GTC	0	0	0	0	0	0	0	0	0	0	12,061
ITC	0	0	0	0	0	0	0	0	0	0	5,837
RAC/Rental Car Facilities	1,493	1,891	1,890	1,829	1,727	1,559	1,605	1,781	1,761	1,886	1,697
LAX Public Parking Lots	183	171	177	226	172	172	122	68	77	72	216
Employee Parking	285	398	394	384	548	508	409	862	480	511	467
Private Parking (1)	755	411	294	461	405	373	449	520	314	436	398
World Way West	1,000	682	668	737	833	628	607	648	708	578	1,241
Cargo and Ancillary (2)	2,570	2,194	1,993	2,094	1,983	1,636	1,739	1,802	1,875	1,865	2,956
LAX Northside (3)	0	0	0	0	20	20	20	20	20	20	2,098
Manchester Square (misc)	0	0	0	0	0	0	0	0	0	0	162
Trip Reduction Adjustment	0	0	0	0	0	0	0	0	0	0	-1170
<b>TOTAL</b>	<b>17,725</b>	<b>15,742</b>	<b>15,257</b>	<b>15,077</b>	<b>15,107</b>	<b>13,917</b>	<b>14,263</b>	<b>14,701</b>	<b>14,281</b>	<b>14,403</b>	<b>26,011</b>

(1) Park One traffic on "Little" Century Boulevard is included in the CTA traffic count

(2) 50 vehicles were added to the 2005 through 2013 counts to account for traffic at 6 minor driveways (5 of which are on Imperial Hwy)

(3) 20 vehicle trips were added to the 2008 through 2013 counts to account for traffic at the fire station on Emerson Avenue n/o Westchester Parkway

Table 7

## TRIP GENERATION SUMMARY FOR LAX - 5 PM TO 6 PM

Airport Facility	1996 (Tech'l Report 3b, Attachment "A")	2005 Traffic Counts	2006 Traffic Counts	2007 Traffic Counts	2008 Traffic Counts	2009 Traffic Counts	2010 Traffic Counts	2011 Traffic Counts	2012 Traffic Counts	2013 Traffic Counts	2015 Alternative D (Tech'l Report S-2b, Attachment "A")
CTA	7,755	8,329	8,714	8,120	8,052	7,300	7,431	7,478	7,153	7,562	1,330
GTC	0	0	0	0	0	0	0	0	0	0	5,978
ITC	0	0	0	0	0	0	0	0	0	0	3,033
RAC/Rental Car Facilities	827	1,216	1,242	1,172	1,120	938	981	1,319	1,478	1,263	776
LAX Public Parking Lots	148	199	180	257	206	220	164	108	92	112	122
Employee Parking	521	605	548	591	637	633	612	597	613	533	1,025
Private Parking (1)	384	358	395	601	423	424	483	562	439	457	256
World Way West	400	420	451	373	506	356	307	284	327	306	1,539
Cargo and Ancillary (2)	2,852	2,429	2,359	2,411	2,128	2,152	2,137	2,029	2,339	1,965	3,061
LAX Northside (3)	0	0	0	0	20	20	20	20	20	20	4,421
Manchester Square (misc)	0	0	0	0	0	0	0	0	0	0	233
Trip Reduction Adjustment	0	0	0	0	0	0	0	0	0	0	-1,973
<b>TOTAL</b>	<b>12,887</b>	<b>13,556</b>	<b>13,889</b>	<b>13,525</b>	<b>13,092</b>	<b>12,043</b>	<b>12,135</b>	<b>12,397</b>	<b>12,461</b>	<b>12,218</b>	<b>19,801</b>

(1) Park One traffic on "Little" Century Boulevard is included in the CTA traffic count

(2) 50 vehicles were added to the 2005 through 2012 counts to account for traffic at 6 minor driveways (5 of which are on Imperial Hwy)

(3) 20 vehicle trips were added to the 2008 through 2012 counts to account for traffic at the fire station on Emerson Avenue n/o Westchester Parkway

Table 8



# Airport Peak Hour (11 AM - Noon) Traffic Volumes

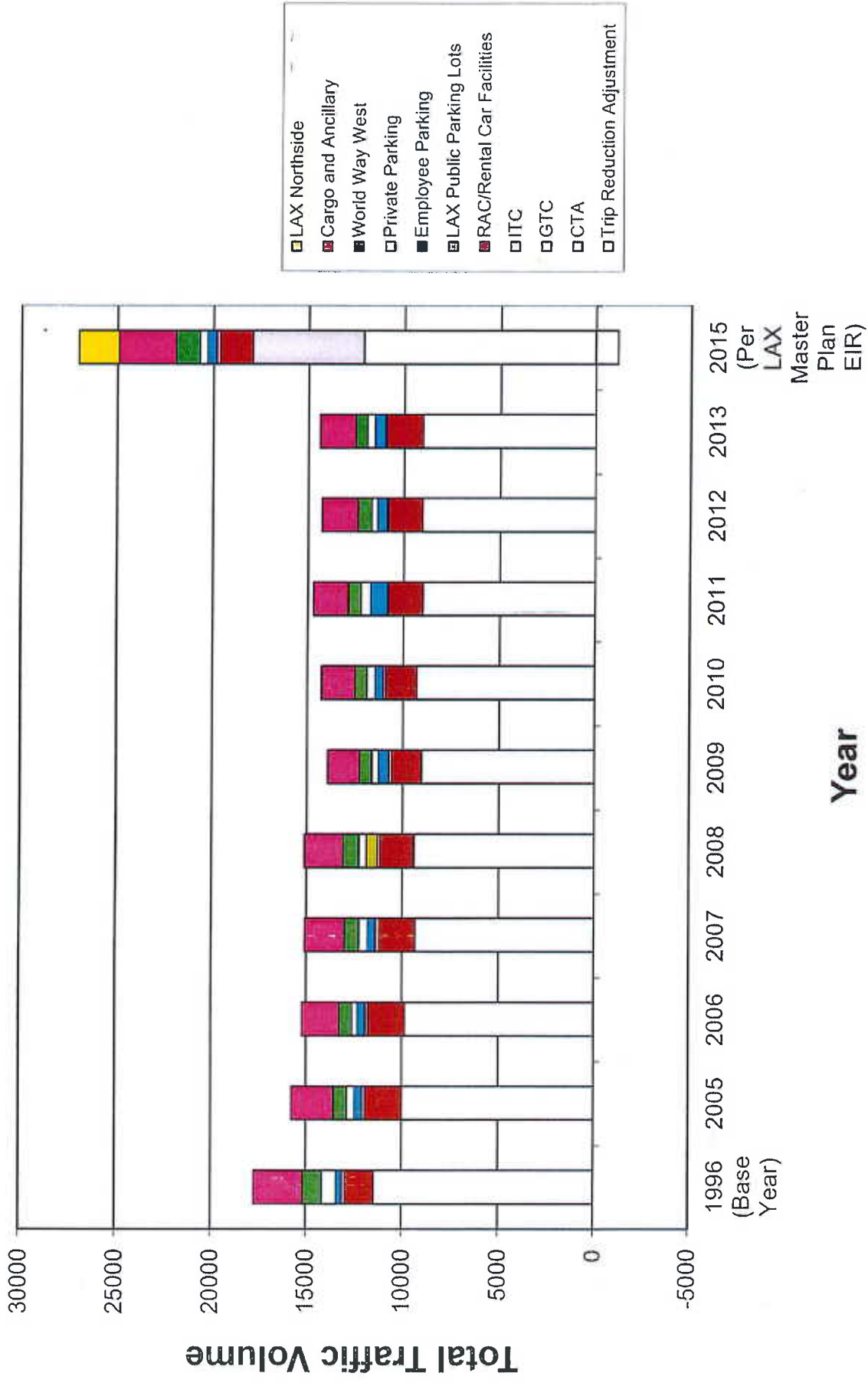


Figure 2



# LAX FlyAway Ridership

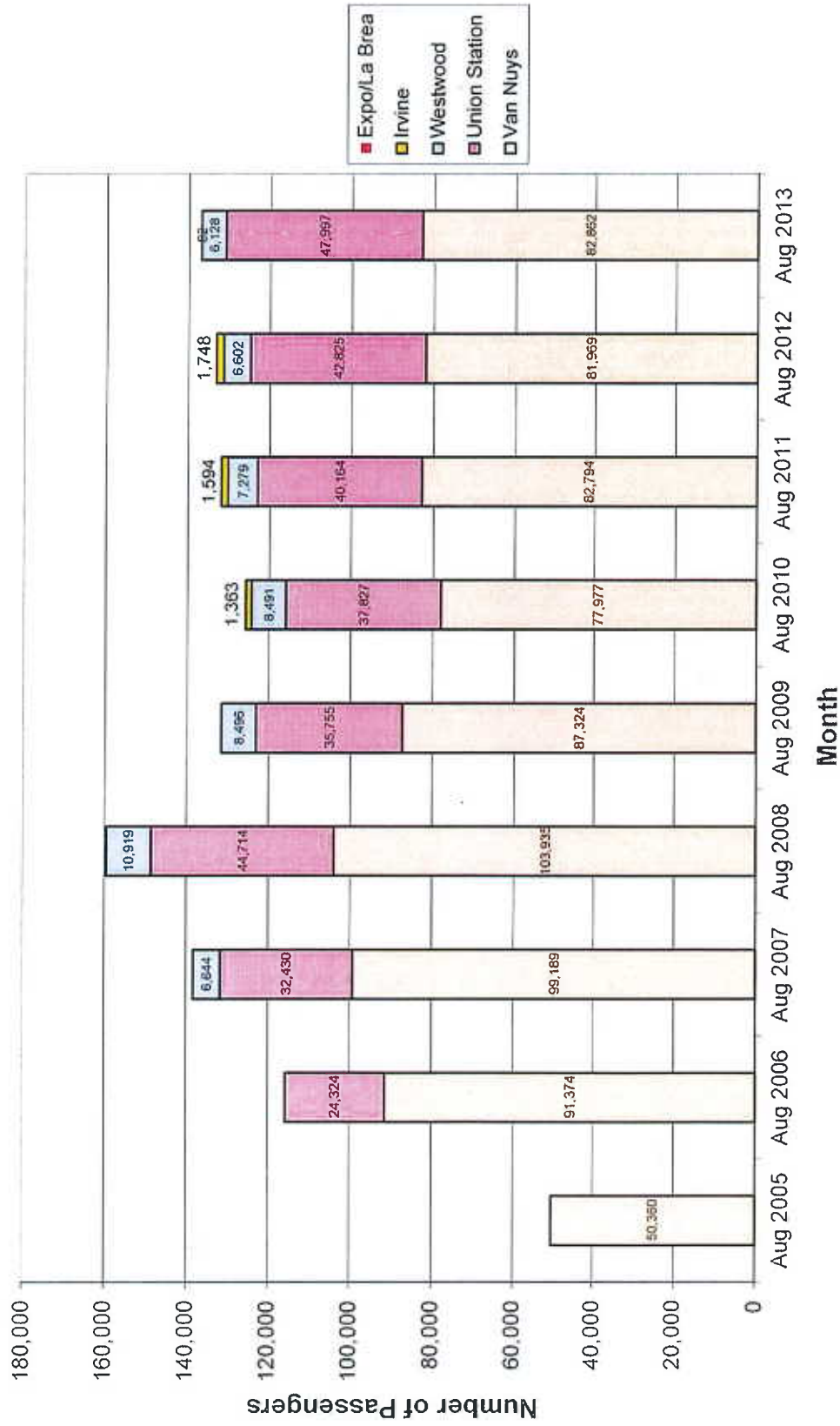


Figure 3

### 2013 LAX Trip Generation Table

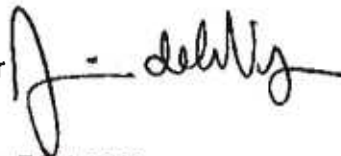
LOCATION	Date Recorded	Day	Traffic Volumes Inbound				Traffic Volumes Outbound									
			Cars	Trucks	Shuttles	Total	Cars	Trucks	Shuttles	Total						
<b>Airport Public Parking Lots</b>																
<b>AP-1</b> (8 AM - 5 AM)			56	1	0	57	1	0	0	1	0	0	0	0	0	0
<b>AP-2</b> (5 AM - 8 AM)			0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>AP-3</b> (8 AM - 11 AM)			13	0	0	13	13	0	0	0	0	0	0	0	0	0
<b>AP-4</b> (11 AM - 2 PM)			11	0	0	11	20	0	0	0	0	0	0	0	0	0
<b>AP-5</b> (2 PM - 5 PM)			11	0	0	11	22	0	0	0	0	0	0	0	0	0
<b>AP-6</b> (5 PM - 8 PM)			11	0	0	11	53	0	0	0	0	0	0	0	0	0
<b>AP-7</b> (8 PM - 11 PM)			0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Subtotal</b>			<b>66</b>	<b>2</b>	<b>14</b>	<b>84</b>	<b>140</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Airport Employee Parking</b>																
<b>AP-1</b> (8 AM - 5 AM)			192	0	0	192	26	0	0	0	0	0	0	0	0	0
<b>AP-2</b> (5 AM - 8 AM)			42	1	2	45	9	0	0	0	0	0	0	0	0	0
<b>AP-3</b> (8 AM - 11 AM)			54	0	15	69	19	0	0	0	0	0	0	0	0	0
<b>AP-4</b> (11 AM - 2 PM)			67	0	0	67	23	1	0	0	0	0	0	0	0	0
<b>AP-5</b> (2 PM - 5 PM)			311	0	0	311	259	1	0	0	0	0	0	0	0	0
<b>Subtotal</b>			<b>666</b>	<b>1</b>	<b>17</b>	<b>684</b>	<b>312</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Concourse Facilities</b>																
<b>AP-1</b> (8 AM - 5 AM)			23	0	0	23	30	0	0	0	0	0	0	0	0	0
<b>AP-2</b> (5 AM - 8 AM)			30	0	0	30	30	0	0	0	0	0	0	0	0	0
<b>AP-3</b> (8 AM - 11 AM)			130	14	41	185	71	17	4	0	0	0	0	0	0	0
<b>AP-4</b> (11 AM - 2 PM)			19	17	4	40	111	13	1	0	0	0	0	0	0	0
<b>AP-5</b> (2 PM - 5 PM)			30	14	5	50	29	8	0	0	0	0	0	0	0	0
<b>AP-6</b> (5 PM - 8 PM)			46	0	0	46	31	2	0	0	0	0	0	0	0	0
<b>AP-7</b> (8 PM - 11 PM)			55	10	0	65	41	0	0	0	0	0	0	0	0	0
<b>AP-8</b> (11 PM - 2 AM)			27	2	0	29	27	2	0	0	0	0	0	0	0	0
<b>AP-9</b> (2 AM - 5 AM)			18	15	0	33	18	0	0	0	0	0	0	0	0	0
<b>AP-10</b> (5 AM - 8 AM)			7	3	0	10	27	2	0	0	0	0	0	0	0	0
<b>AP-11</b> (8 AM - 11 AM)			59	10	0	69	31	15	0	0	0	0	0	0	0	0
<b>AP-12</b> (11 AM - 2 PM)			30	3	0	33	17	7	0	0	0	0	0	0	0	0
<b>Subtotal</b>			<b>779</b>	<b>199</b>	<b>45</b>	<b>1023</b>	<b>474</b>	<b>181</b>	<b>37</b>	<b>682</b>	<b>650</b>	<b>216</b>	<b>59</b>	<b>925</b>	<b>730</b>	<b>217</b>
<b>Retail Car Facilities</b>																
<b>AP-1</b> (8 AM - 5 AM)			18	0	0	18	8	0	0	0	0	0	0	0	0	0
<b>AP-2</b> (5 AM - 8 AM)			34	1	15	50	25	0	0	0	0	0	0	0	0	0
<b>AP-3</b> (8 AM - 11 AM)			102	0	0	102	55	0	0	0	0	0	0	0	0	0
<b>AP-4</b> (11 AM - 2 PM)			39	0	0	39	22	0	0	0	0	0	0	0	0	0
<b>AP-5</b> (2 PM - 5 PM)			51	0	0	51	43	0	0	0	0	0	0	0	0	0
<b>AP-6</b> (5 PM - 8 PM)			69	0	0	69	54	0	0	0	0	0	0	0	0	0
<b>AP-7</b> (8 PM - 11 PM)			0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>AP-8</b> (11 PM - 2 AM)			5	0	0	5	5	0	0	0	0	0	0	0	0	0
<b>AP-9</b> (2 AM - 5 AM)			4	0	0	4	29	0	0	0	0	0	0	0	0	0
<b>AP-10</b> (5 AM - 8 AM)			13	0	13	17	12	0	0	0	0	0	0	0	0	0
<b>AP-11</b> (8 AM - 11 AM)			37	0	14	51	30	0	0	0	0	0	0	0	0	0
<b>AP-12</b> (11 AM - 2 PM)			38	0	0	38	40	1	0	0	0	0	0	0	0	0
<b>AP-13</b> (2 PM - 5 PM)			6	0	13	19	9	0	0	0	0	0	0	0	0	0
<b>AP-14</b> (5 PM - 8 PM)			156	1	2	159	116	1	1	15	48	2	7	59	41	0
<b>AP-15</b> (8 PM - 11 PM)			69	0	0	69	41	0	0	0	0	0	0	0	0	0
<b>Subtotal</b>			<b>682</b>	<b>3</b>	<b>97</b>	<b>782</b>	<b>357</b>	<b>0</b>	<b>94</b>	<b>451</b>	<b>844</b>	<b>4</b>	<b>130</b>	<b>978</b>	<b>880</b>	<b>1</b>
<b>Off Airport Parking Facilities</b>																
<b>AP-1</b> (8 AM - 5 AM)			8	0	0	8	3	0	0	0	0	0	0	0	0	0
<b>AP-2</b> (5 AM - 8 AM)			5	0	0	5	2	0	0	0	0	0	0	0	0	0
<b>AP-3</b> (8 AM - 11 AM)			28	0	0	28	11	0	0	0	0	0	0	0	0	0
<b>AP-4</b> (11 AM - 2 PM)			30	0	0	30	13	0	0	0	0	0	0	0	0	0
<b>AP-5</b> (2 PM - 5 PM)			30	0	0	30	22	0	0	0	0	0	0	0	0	0
<b>AP-6</b> (5 PM - 8 PM)			14	0	0	14	5	0	0	0	0	0	0	0	0	0
<b>AP-7</b> (8 PM - 11 PM)			51	0	16	67	6	0	0	0	0	0	0	0	0	0
<b>AP-8</b> (11 PM - 2 AM)			20	0	0	20	15	0	0	0	0	0	0	0	0	0
<b>AP-9</b> (2 AM - 5 AM)			23	0	0	23	1	0	0	0	0	0	0	0	0	0
<b>Subtotal</b>			<b>123</b>	<b>0</b>	<b>16</b>	<b>139</b>	<b>38</b>	<b>0</b>	<b>68</b>	<b>108</b>	<b>129</b>	<b>0</b>	<b>61</b>	<b>190</b>	<b>182</b>	<b>0</b>

**CITY OF LOS ANGELES**  
INTER-DEPARTMENTAL CORRESPONDENCE

Date: September 29, 2013

To: Cynthia Guidry, Chief of Airport Planning  
Los Angeles World Airports

From: Jaime de la Vega, General Manager  
Department of Transportation



**SUBJECT: LAX TRAFFIC VOLUMES REPORT FOR 2013**

The Department of Transportation (LADOT) has completed its review of the Los Angeles International Airport (LAX) Traffic Volumes Report for 2013. This report is the ninth of an annual monitoring requirement established when the Los Angeles City Council approved the LAX Master Plan and Specific Plan last December 2004. Pursuant to Section G of the LAX Specific Plan, LAWA is required to submit a traffic generation report that identifies the current number of vehicle trips generated by LAX-related land uses.

As required by the Specific Plan, the monitoring of the airport trips shall be conducted during the airport's peak weekday hour of 11 a.m. to noon and during the month of August - the peak travel month. The LAX Specific Plan requires LADOT approval of the annual report before submittal to the Department of City Planning, to the Board of Airport Commissioners and to the City Council. According to the traffic forecasts in the LAX Master Plan environmental documents, at full build-out of the approved alternative (Alternative D), the total trip generation of all airport-related uses will be 26,011 during the airport peak hour (projected build-out year 2015). This represents a net increase of 8,236 trips when compared to baseline conditions of 1996 at 17,775. If the annual traffic volume report reveals that the development of the LAX Master Plan is likely to increase airport trips by more than 8,236 trips, LAWA shall be responsible for completing a Specific Plan Amendment Study pursuant to Section 7H of the LAX Specific Plan.

The results of the survey indicate that LAX-related uses generated 14,403 vehicle trips during the airport peak hour for August 2013, which is less than 1.0% higher than the 14,281 airport peak hour trips generated for the same period in 2012.

The total airport trip generation of 14,403 for survey year 2013 is well below the projected Master Plan build-out total of 26,011 airport peak hour trips. Although traffic from the LAX Master Plan Bradley West project, currently under construction, has been taken into account (included in the World Way West data), these results are not unexpected. The 2013 traffic counts do not include traffic from any other LAX Master Plan projects since none of these proposed projects have yet been constructed. The attached table summarizes the results of the 2013 survey.

LADOT agrees that the LAX Traffic Volume Report for 2013 adequately identifies the trip generation for all LAX-related uses. Since the total 2013 trip generation of 14,403 represents a nominal increase when compared to the previous year, and is well below the estimated trip generation projected for LAX after build-out of the Master Plan, a Specific Plan Amendment Study is not required at this time. If you have any questions, please call Eddie Guerrero, of the LADOT Planning and Development Review, West L.A. / Coastal Section, at (310) 642-1625.

JTV:EG

Attachment

c: Steve Martin, LAWA  
Pat Tomcheck, LAWA  
Jay Kim, LADOT  
Sean Haeri, LADOT  
Eddie Guerrero, LADOT



**LAX TRAFFIC VOLUME SUMMARY  
SURVEY YEAR 2013**

Year	Peak Hour Volumes		
	AM	PM	AP
<b>1996 - LAX Master Plan Study Base Year</b>	<b>11,978</b>	<b>12,887</b>	<b>17,725</b>
2005 - First Survey Year	10,984	13,556	15,742
2006 - Second Survey Year	12,663	13,889	15,257
2007 - Third Survey Year	11,754	13,525	15,077
2008 - Fourth Survey Year	11,338	13,092	15,107
2009 - Fifth Survey Year	10,394	12,043	13,917
2010 - Sixth Survey Year	10,365	12,135	14,263
2011 - Seventh Survey Year	10,642	12,397	14,701
2012 - Eighth Survey Year	10,924	12,461	14,281
2013 - Ninth Survey Year	<b>10,425</b>	<b>12,218</b>	<b>14,403</b>
2015 - LAX Master Plan Projected Build-Out Year	18,474	19,801	26,011

**Notes:**

AM = a.m. peak hour of 8 to 9 a.m.

PM = p.m. peak hour of 5 to 6 p.m.

AP = airport peak hour of 11 a.m. to noon