

TRAFFIC GENERATION REPORT

[Los Angeles International Airport / August 2015]



*Los Angeles
World Airports*

Prepared by Capital Programming, Planning and Engineering Group
December 2015

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 eleventh Traffic Generation Report to be completed since the Los Angeles City Council's approval of the LAX Master Plan Program in December 2004.

The Environmental Impact Report (EIR) for the LAX Master Plan forecasted 8,286 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:

1996 Airport Peak Hour Volume (Base Year)	17,725 trips
2014 Airport Peak Hour Volume	16,386 trips
2015 Airport Peak Hour Volume (Projected from 2004 EIR)	26,011 trips

These volumes show that the August 2015 airport peak-hour volume does not exceed 8,236 additional trips above the base-year total of 17,725 trips and is in fact 1,339 trips less than the 1996 base year volumes.

The results of the August 2015 traffic volume study also reveal that there were 12,598 trips recorded at LAX during the 8 am to 9 am peak hour and 14,250 trips in the 5 pm to 6 pm peak hour. This represents 620 more trips during the morning peak hour in August 2015 than during the same hour in the 1996 base year, and 1,363 more evening peak hour trips in August 2015 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 2015, 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
8/07/15	4,177	5,384	4,167	4,224	5,685	4,856
8/14/15	3,773	5,331	4,166	4,110	5,476	4,940
8/21/15	3,978	5,128	4,175	3,775	5,301	4,795
8/28/15	3,554	4,775	3,696	3,536	5,153	4,561
Average	3,871	5,155	4,051	3,912	5,404	4,788

Table 1

The total number of trips into and out of the LAX CTA on each of the Fridays in August 2015, 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
8/07/15	8,401	11,069	9,023
8/14/15	7,883	10,807	9,106
8/21/15	7,753	10,429	8,970
8/28/15	7,090	9,928	8,257
Average	7,782	10,559	8,839

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 City of 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 65 driveways by National Data & Surveying Services, 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 and see **Table 8** for the Trip Generation Table for these facilities. Traffic entering and exiting a roadway or driveway was counted in three separate vehicular categories – cars, trucks and shuttles.

National Data & Surveying Company recorded traffic at the following cargo facility driveways on either Friday, August 7, 2015 or Friday, August 14, 2015:

Cargo/Ancillary Facilities:

Aviation Blvd (west leg of intersection) locations:

- 104th Street
- 111th 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 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 96th 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 96th 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 on Friday, August 1, 2014:

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 98th Street, NW corner:

- Two driveways on Airport Blvd
- Two driveways on 96th Place
- Driveway on 98th Street

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

- Exit driveway on Isis Avenue, W/S, north of Arbor Vitae Street
- Two driveways on Aviation Boulevard, E/S, north 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 96th 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 One¹ – Sepulveda Blvd from Century Blvd to 96th Street:

- Driveway on 96th 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 98th Street:

- Driveways on Bellanca Ave
- Driveway on 98th Street
- Car entrance driveway on Century Blvd

Valet AirPark – Sepulveda Blvd and 96th Street, SE corner:

- Driveway on 96th Street east of Sepulveda Blvd
- Driveway on Vicksburg Ave south of 96th Street

Wally Park – Bellanca Ave, east side, north of 98th 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:

¹ 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 161 trips/ 32 shuttles = 5.03 trips/shuttle
 AP 127 trips/ 33 shuttles = 3.85 trips/shuttle
 PM 105 trips/ 34 shuttles = 3.09 trips/shuttle

Private Parking Car Trips per Outbound Shuttle

AM 50 trips/ 20 shuttles = 2.50 trips/shuttle
 AP 70 trips/ 16 shuttles = 4.38 trips/shuttle
 PM 89 trips/ 14 shuttles = 6.36 trips/shuttle

The number of shuttles recorded in the LAX CTA on the four Fridays in August 2015 by the joint-use parking businesses was obtained from the TRAVIS (Commercial Vehicle Count) 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 2015 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
8/07/15	34	28	34
8/14/15	31	28	32
8/21/15	35	32	27
8/28/15	27	37	32
Rounded Average	32	32	32

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

Date	Peak Hour		
	AM	AP	PM
8/07/15	39	26	31
8/14/15	34	39	37
8/21/15	35	36	32
8/28/15	35	35	29
Rounded Average	36	34	33

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	5.03	X	32	=	161
Airport	3.85	X	32	=	123
PM	3.09	X	32	=	99

**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	2.50	X	36	=	90
Airport	4.38	X	34	=	149
PM	6.36	X	33	=	210

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 Hertz 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 Hertz driveway.

LAX Master Plan Projects Currently Under Construction:

There are no LAX Master Plan projects currently under construction.

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, the vast majority of these trips are made during off-peak hours and are temporary in nature. These projects include:

- **Electrical, Communication and Water Utility Extension - 5th Feeder Project**

This project will help ensure Los Angeles World Airports (LAWA) has sufficient utility systems reliability, capacity and redundancy to meet new load demands required to support Bradley West, the Central Utility Plant Replacement Project, and other improvements at LAX. The vast majority of this project was completed in September 2015.

- **Escalator/Elevator Upgrades**

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

- **Second Level Roadway**

This project is replacing failed expansion joints and bearing pads on the second level roadway in the LAX CTA. The project also installed a decorative light band and new street lighting along the CTA roadway; both of these elements were completed in July 2015. A new roadway surface will be installed between September and November 2015, followed by new lane striping.

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 5** (AM Peak), **Table 6** (Airport Peak) and **Table 7** (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 2015, the total volume of traffic is 16,386 vehicle trips in the Airport Peak Hour on a Friday in August. This total is 1,339 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 eleven 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 2015 AM peak hour volume is 12,598 (compared with 11,978 vehicles in 1996) and the August 2015 PM peak hour volume is 14,250 (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, but was terminated in September 2014 due to lack of ridership. The Santa Monica FlyAway began operation in July 2014 and the Hollywood FlyAway began service on September 2014.

Two additional FlyAway sites are planned -- one in downtown Long Beach and the other providing a connection with the Orange Line in the San Fernando Valley at the Woodley Avenue station. Both of these services will begin prior to January 1, 2016. The ridership totals for the month of August during the last eleven years are shown in **Figure 3**. Overall, FlyAway ridership increased over 200% from August 2005 (with 50,360 passengers on the Van Nuys FlyAway) to August 2015 (with 152,038 passengers from five FlyAway sites). 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	2014 Traffic Counts	2015 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	7,273	7,782	1,204
GTC	0	0	0	0	0	0	0	0	0	0	0	0	5,466
ITC	0	0	0	0	0	0	0	0	0	0	0	0	2,793
RAC/Rental Car Facilities (1)	775	1,195	1,342	1,261	1,239	956	1,011	1,038	1,273	1,042	1,208	1,419	716
LAX Public Parking Lots	114	185	149	145	165	145	100	87	68	84	150	106	115
Employee Parking	269	448	493	534	524	446	393	387	417	436	570	549	853
Private Parking (2)	275	230	389	427	388	359	331	294	285	360	437	462	243
World Way West	525	536	649	580	648	598	503	490	559	544	520	611	1,688
Cargo and Ancillary (3)	3,031	1,953	1,891	2,036	1,971	1,641	1,733	2,031	1,914	1,765	1,831	1,649	3,412
LAX Northside (4)	0	0	0	0	20	20	20	20	20	20	20	20	3,922
Manchester Square	0	0	0	0	0	0	0	0	0	0	0	0	212
Trip Reduction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	-2,150
TOTAL	11,978	10,984	12,663	11,754	11,338	10,394	10,365	10,642	10,924	10,425	12,009	12,598	18,474

(1) Rental Car Traffic was adjusted in 2014 to account for vehicle counts omission of Dollar Rent-a car by adding 10% increase to 2013 driveway counts recorded at the Dollar driveways.

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

(3) 50 vehicle trips were added to the 2005 through 2015 counts to account for traffic at 6 minor driveways (5 of which are on Imperial Hwy)

(4) 20 vehicle trips were added to the 2008 through 2015 counts to account for traffic at the fire station on Emerson Avenue n/o Westchester Parkway

Table 5

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	2014 Traffic Counts	2015 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	9,800	10,559	48
GTC	0	0	0	0	0	0	0	0	0	0	0	0	12,061
ITC	0	0	0	0	0	0	0	0	0	0	0	0	5,837
RAC/Rental Car Facilities (1)	1,493	1,891	1,890	1,829	1,727	1,559	1,605	1,781	1,761	1,886	1,989	2,183	1,697
LAX Public Parking Lots	183	171	177	226	172	172	122	68	77	72	137	81	216
Employee Parking	285	398	394	384	548	508	409	862	480	511	642	649	467
Private Parking (2)	755	411	294	461	405	373	449	520	314	436	398	470	398
World Way West	1,000	682	668	737	833	628	607	648	708	578	602	614	1,241
Cargo and Ancillary (3)	2,570	2,194	1,993	2,094	1,983	1,636	1,739	1,802	1,875	1,865	1,857	1,810	2,956
LAX Northside (4)	0	0	0	0	20	20	20	20	20	20	20	20	2,098
Manchester Square	0	0	0	0	0	0	0	0	0	0	0	0	162
Trip Reduction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	-1170
TOTAL	17,725	15,742	15,257	15,077	15,107	13,917	14,263	14,701	14,281	14,403	15,445	16,386	26,011

(1) Rental Car Traffic was adjusted in 2014 to account for vehicle counts omission of Dollar Rent-a car by adding 10% increase to 2013 driveway counts recorded at the Dollar driveways.

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

(3) 50 vehicles were added to the 2005 through 2015 counts to account for traffic at 6 minor driveways (5 of which are on Imperial Hwy)

(4) 20 vehicle trips were added to the 2008 through 2015 counts to account for traffic at the fire station on Emerson Avenue n/o Westchester Parkway

Table 6

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	2014 Traffic Counts	2015 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	8,328	8,839	1,330
GTC	0	0	0	0	0	0	0	0	0	0	0	0	5,978
ITC	0	0	0	0	0	0	0	0	0	0	0	0	3,033
RAC/Rental Car Facilities (1)	827	1,216	1,242	1,172	1,120	938	981	1,319	1,478	1,263	1,214	1,491	776
LAX Public Parking Lots	148	199	180	257	206	220	164	108	92	112	144	120	122
Employee Parking	521	605	548	591	637	633	612	597	613	533	629	723	1,025
Private Parking (2)	384	358	395	601	423	424	483	562	439	457	344	503	286
World Way West	400	420	451	373	506	356	307	284	327	306	352	323	1,539
Cargo and Ancillary (3)	2,852	2,429	2,359	2,411	2,128	2,152	2,137	2,029	2,339	1,965	2,131	2,231	3,061
LAX Northside (4)	0	0	0	0	20	20	20	20	20	20	20	20	4,421
Manchester Square	0	0	0	0	0	0	0	0	0	0	0	0	233
Trip Reduction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	-1,973
TOTAL	12,887	13,556	13,889	13,525	13,092	12,043	12,135	12,397	12,461	12,218	13,162	14,250	19,801

(1) Rental Car Traffic was adjusted in 2014 to account for vehicle counts omission of Dollar Rent-a car by adding 10% increase to 2013 driveway counts recorded at the Dollar driveways.

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

(3) 50 vehicles were added to the 2005 through 2015 counts to account for traffic at 6 minor driveways (5 of which are on Imperial Hwy)

(4) 20 vehicle trips were added to the 2008 through 2015 counts to account for traffic at the fire station on Emerson Avenue n/o Westchester Parkway

Table 7

Airport Peak Hour (11 AM - Noon) Traffic Volumes

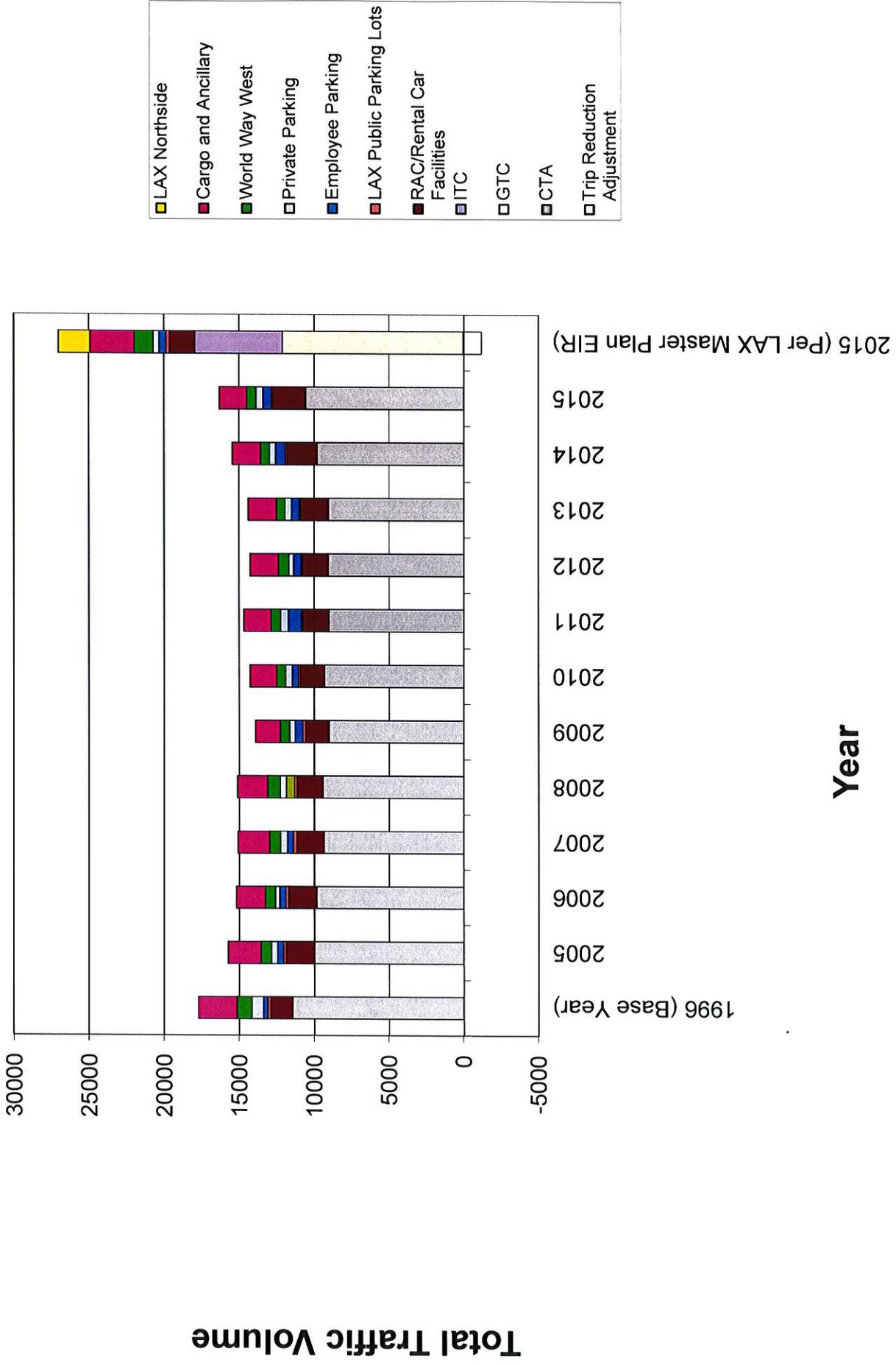
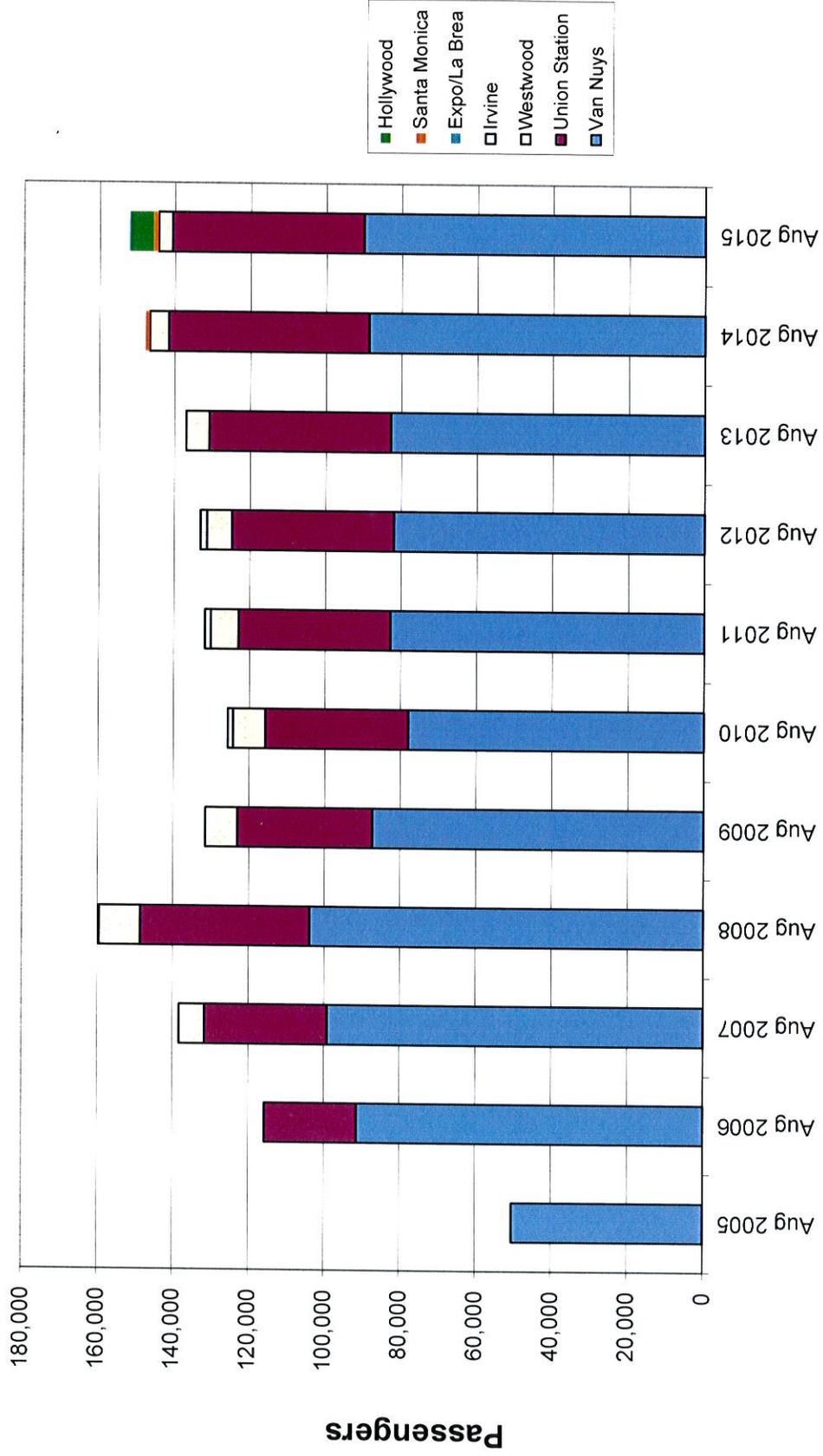


Figure 2

Annual FlyAway Ridership



Year

Figure 3

2015 LAX Trip Generation Table

LOCATION	Date Recorded	Day	Traffic Volumes Inbound												Traffic Volumes Outbound																		
			AM (8 AM - 9 AM)				AP (11 AM - Noon)				PM (5 PM - 6 PM)				AM (8 AM - 9 AM)				AP (11 AM - Noon)				PM (5 PM - 6 PM)										
			Cars	Trucks	Shuttles	Total	Cars	Trucks	Shuttles	Total	Cars	Trucks	Shuttles	Total	Cars	Trucks	Shuttles	Total	Cars	Trucks	Shuttles	Total	Cars	Trucks	Shuttles	Total							
Airport Public Parking Lots			Lot C - 96th Street public entrance				8/7/2015	FRI	63	0	0	63	36	0	0	36	48	0	0	48	0				0				0				
				Lot C - entrance driveway on Westchester Parkway				8/7/2015	FRI	24	0	0	24	16	0	0	16	13	0	0	13	0				0				0			
				Lot C - exit driveway on Jenny Ave				8/7/2015	FRI	0	0	0	0	0	0	0	0	0	0	0	0	19				29				59			
Subtotal									87	0	0	87	52	0	0	52	61	0	0	61	19				29				59				
Airport Employee Parking			Airport Police - 2 driveways on 96th Street w/o Alverstone Avenue				8/7/2015	FRI	77	2	10	89	51	1	12	64	28	0	9	37	23				30				58				
				Employee Lot West - Entry/Exit on Westchester Parkway				8/7/2015	FRI	75	0	0	75	59	0	0	59	40	0	0	40	40				64				81			
				Employee Lot East - Main Entry/Exit on Jenny Avenue (east side) n/o Westchester				8/7/2015	FRI	174	0	0	174	151	0	0	151	122	0	0	122	32				74				170			
				Employee Lot South - Entry/Exit on Jenny Avenue (west side) n/o 96th St				8/14/2015	FRI	104	0	0	104	129	0	0	129	68	0	0	68	24				60				140			
				World Way West				8/14, 21/2015	FRI	388	0	0	388	286	0	9	295	106	0	0	106	223				328				217			
Subtotal									818	2	10	830	676	1	21	698	364	0	9	373	342				556				666				
Cargo Facilities			Aviation Boulevard and 104th Street (west leg)				8/14/2015	FRI	100	28	1	129	66	21	0	87	57	26	1	84	73				128				229				
				Aviation Boulevard and 111th Street (west leg)				8/14/2015	FRI	0	0	0	0	0	0	0	0	0	0	0	0	40				56				86			
				Century Boulevard and Avion Drive (south leg)				8/7/2015	FRI	85	7	34	126	74	15	39	128	35	5	28	68	67				74				92			
				Century Boulevard and Airport Boulevard (south leg)				8/7/2015	FRI	87	15	6	108	92	13	5	110	103	15	7	125	63				76				70			
				Century Boulevard and Postal Road (south leg)				8/7/2015	FRI	46	13	0	59	60	10	2	72	135	11	13	159	23				19				6			
				Century Boulevard and International Road (south leg)				8/7/2015	FRI	44	10	0	54	62	18	1	81	43	7	0	50	45				27				38			
				Imperial Highway and Imperial Terminal (north leg)				8/14/2015	FRI	69	11	0	80	73	15	0	88	63	7	0	70	34				90				86			
				Imperial Highway and California Street (north leg)				8/14/2015	FRI	50	11	2	63	61	10	1	72	86	18	2	106	25				60				101			
				Imperial Highway and Hughes Way (north leg)				8/14/2015	FRI	81	18	0	99	41	22	0	63	45	22	1	68	65				39				81			
				Imperial Highway and unsignalized driveway e/o Hughes Way (north leg)				8/14/2015	FRI	33	14	0	47	22	15	2	39	146	28	0	174	18				16				28			
				Imperial Highway and Kilroy Center Drive (north leg)				8/14/2015	FRI	2	0	0	2	5	1	0	6	4	2	1	7	3				7				8			
				Imperial Highway and Douglas Street (north leg)				8/14/2015	FRI	33	15	1	49	52	22	8	82	65	19	5	89	66				67				55			
				Imperial Highway and unsignalized driveway w/o Aviation Blvd (north leg)				8/14/2015	FRI	89	43	4	136	58	46	2	106	54	42	8	104	6				16				20			
Subtotal									719	185	48	952	666	208	60	934	836	202	66	1104	528				675				900				
Rental Car Facilities			Advantage Rental Car - Driveway on Isis Ave s/o Manchester Blvd				8/7/2015	FRI	15	0	0	15	27	0	0	27	20	0	1	21	0				0				0				
				Advantage Rental Car - Driveway on Manchester Blvd e/o Isis Ave				8/7/2015	FRI	0	0	0	0	0	0	0	0	0	0	0	0	15				28				28			
				Alamo/National - 3 driveways on Aviation Boulevard s/o Hillcrest Boulevard				8/7/2015	FRI	81	0	3	84	109	0	0	109	108	0	0	108	39				34				28			
				Alamo/National - entry driveway on Hillcrest Boulevard e/o Aviation Boulevard				8/7/2015	FRI	167	0	10	177	226	0	2	228	178	0	2	180	0				0				0			
				Alamo/National - Exit driveways on Isis Ave s/o Hillcrest Blvd				8/7/2015	FRI	0	0	0	0	0	0	0	0	0	0	0	0	31				61				39			
				Avis - driveway on Airport Boulevard s/o Westchester Parkway				8/7/2015	FRI	119	1	3	123	148	0	3	151	90	0	8	98	23				51				36			
				Avis - three driveways on Jenny Street				8/7/2015	FRI	15	0	15	30	35	2	21	58	6	1	25	32	74				137				68			
				Budget - 2 driveways on Airport Boulevard between 96th Place and 98th Street				8/7/2015	FRI	94	1	0	95	107	2	0	109	80	0	1	81	0				0				0			
				Budget - two driveways on 96th Place w/o Airport Boulevard				8/7/2015	FRI	0	0	13	13	0	0	12	12	0	0	16	16	67				123				55			
				Dollar Rental Car - Exit Driveway on Isis Avenue, W/S, north of Arbor Vitae Street				8/7/2015	FRI	0	0	0	0	0	0	0	0	0	0	0	0	17				52				43			
				Dollar Rental Car - (Southernmost) driveway on Aviation Boulevard, E/S, north of Arbor Vitae Street				8/7/2015	FRI	93	0	15	108	125	0	20	145	81	0	17	98	0				0				0			
				Dollar Rental Car - (North) driveway on Aviation Boulevard, E/S, north of Arbor Vitae Street				8/7/2015	FRI	7	0	0	7	3	0	0	3	1	0	0	1	15				24				31			
				Enterprise - five driveways on Bellanca Avenue s/o Manchester Boulevard				8/7/2015	FRI	81	0	20	101	132	0	16	148	61	3	15	79	59				122				89			
				Fox/Payless Rental Car - Century Blvd btw Aviation Blvd and Concourse Way (at 5500 West Century Blvd)				8/14/2015	FRI	40	0	1	41	50	0	0	50	32	0	0	32	0				0				0			
				Fox/Payless Rental Car - Exit driveway on 102nd Street				8/7/2015	FRI	0	0	0	0	0	0	0	0	0	0	0	0	37				69				40			
				Hertz Rental Car - Airport Blvd btw Interceptor St and Arbor Vitae St				8/7/2015	FRI	0	0	20	20	0	0	26	26	0	0	18	18	0				0				0			
				Hertz Rental Car - 2 driveways on Arbor Vitae St e/o Airport Blvd				8/7/2015	FRI	0	0	0	0	0	0	0	0	0	0	0	0	50				145				98			
				Hertz Rental Car - Interceptor Street e/o Airport Blvd				8/7/2015	FRI	155	0	6	161	200	2	8	210	158	1	6	165	79				83				49			
				Thrifty Rental Car - Century Blvd btw Aviation Blvd and Concourse Way				8/7/2015	FRI	26	0	0	26	42	0	0	42	26	0	0	26	0				0				0			
				Thrifty Rental Car - Concourse Way s/o Century Blvd (Exit Driveway)				8/14/2015	FRI	0	0	0	0	0	0	0	0	0	0	0	0	17				39				36			
Subtotal									893	2	106	1001	1204	6	108	1318	841	5	109	955	523				968				640				
Off Airport Parking Facilities			The Parking Spot - driveways on Bellanca Avenue s/o 98th Street				8/7/2015	FRI	5	0	0	5	1	0	0	1	4	0	0	4	14				33				34				
				The Parking Spot - driveway on 98th Street w/o Bellanca Avenue				8/7/2015	FRI	5	0	0	5	3	0	0	3	2	0	0	2	2				1				1			
				The Parking Spot - driveway on Century Boulevard w/o Bellanca Avenue				8/7/2015	FRI	49	0	0	49	26	0	0	26	16	0	0	16	0				0				0			
				Wally Park Express - 96th Street e/o Sepulveda Blvd				8/7/2015	FRI	7	0	0	7	15	0	1	16	11	0	6	17	7				3				5			
				Wally Park Express - Vicksburg Ave s/o 96th Street				8/7/2015	FRI	0	0	0	0	0	0	0	0	0	0	0	0	0				0				0			
				Wally Park Express - Sepulveda Blvd s/o 96th Street				8/7/2015	FRI	8	0	8	16	9	0	8	17	5	0	10	15	0				0				0			
				Wally Park - Bellanca Ave n/o 98th Street				8/7/2015	FRI	0	0	0	0	0	0	0	0	0	0	0	0	14				5				6			
				Wally Park - Bellanca Ave n/o 98th Street				8/7/2015	FRI	12	0	0	12	10	0	0	10	14	0	1	15	0				3				8			
				Parking Spot - Sepulveda Westway s/o Westchester Pkwy				8/7/2015	FRI	20	0	1	21	16	0	1	17	14	0	0	14	9				13				20			
				Parking Spot - Westchester Pkwy w/o Sepulveda Blvd				8/7/2015	FRI	23	0	11	34	16	0	11	27	11	0	9	20	4				12				15			
				Park One - "Little" Century Blvd w/o Sepulveda Blvd				8/7/2015	FRI	12	0	0	12	9	0	0	9	12	0	0	12	0				0				0			
				Quik Park - 98th Street w/o Vicksburg Ave				8/7/2015	FRI	20	0	12	32	22	0	12	34	16	0	8	24	0				0				0			
Subtotal									161	0	32	193	127	0	33	160	105	0	34	139	50				70				89				

Table 8

CITY OF LOS ANGELES
INTER-DEPARTMENTAL MEMORANDUM

Date: December 10, 2015

To: Cynthia Guidry, Deputy Executive Director
Los Angeles World Airports

From: Seleta J. Reynolds,  General Manager
Department of Transportation

SUBJECT: **LAX TRAFFIC VOLUMES REPORT FOR 2015**

The Los Angeles Department of Transportation (LADOT) has completed its review of the Los Angeles International Airport (LAX) Traffic Volumes Report for 2015. This report is the eleventh of an annual monitoring requirement established when the Los Angeles City Council approved the LAX Master Plan and Specific Plan in 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 17,725.

The results of the 2015 survey indicate that LAX-related uses generated 16,386 vehicle trips during the airport peak hour for August 2015, which is 6.1 % higher than the 15,445 airport peak hour trips generated for the same period in 2014; however, this total is still well below the projected Master Plan build-out total of 26,011 airport peak hour trips. The attached table summarizes the results of the 2015 survey.

LADOT agrees that the LAX Traffic Volume Report for 2015 adequately identifies the trip generation for all LAX-related uses. If you have any questions, please contact Eddie Guerrero of the LADOT Planning and Development Review, West L.A. / Coastal Section, at (213) 485-1062 or Eddie.Guerrero@lacity.org.

SJR:EG

Attachment

c: Robert Falcon, Pat Tomcheck, LAWA
Jay Kim, Sean Haeri, Eddie Guerrero, LADOT

**LAX TRAFFIC VOLUME SUMMARY
SURVEY YEAR 2014**

Year	Peak Hour Volumes		
	AM	PM	AP
1996 - LAX Master Plan Study Base Year	11,978	12,887	17,725
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	10,425	12,218	14,403
2014 – Tenth Survey Year	12,009	13,162	15,445
2015 – Eleventh Survey Year	12,598	14,250	16,386
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