

*Los Angeles  
World Airports*

**LAX SPECIFIC PLAN  
AVIATION ACTIVITY ANALYSIS  
REPORT  
CY 2013**

**Submitted March 2014**

**Los Angeles International Airport Specific Plan  
LAX Specific Plan Compliance Review  
Aviation Activity Analysis  
January - December 2013**

**Purpose of This Study**

Per Section 7 Subsection G.1(b), Monitoring and Reporting, of the Los Angeles International Airport Specific Plan, Los Angeles World Airports (LAWA) is required to prepare and submit an annual Aviation Activity Analysis Report to the Board of Airport Commissioners, the Department of City Planning, Los Angeles Department of Transportation, and the City Council. This report is to include an "analysis that identifies the current number of passengers, volume of air cargo and aircraft operations served at LAX". The report is also to "compile aviation activity statistics for other airports in the Los Angeles region for monitoring and reporting purposes." This Aviation Activity Analysis Report has been updated for the calendar year 2013.

**Summary and Conclusions**

An analysis of LAX and regional air traffic activity for January through December 2013 led to the following conclusions:

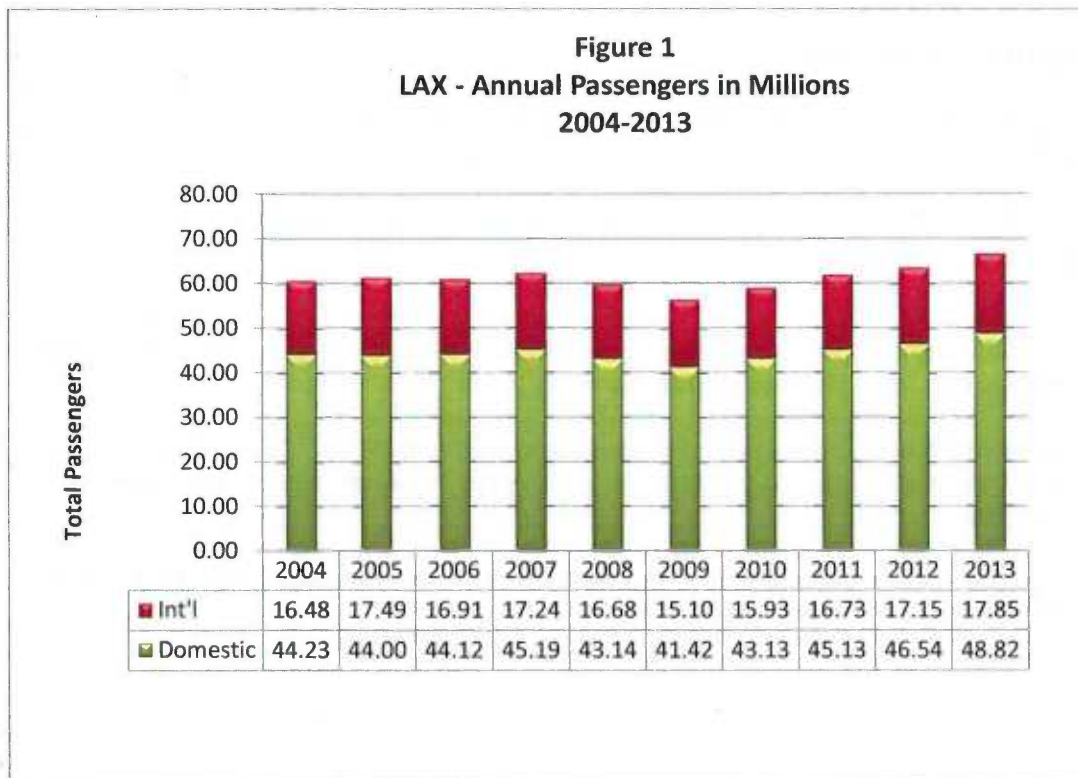
- Passenger volume at LAX totaled approximately 66.67 Million Annual Passengers (MAP) in 2013, a 4.68% increase compared to the previous year. Cargo volume at LAX totaled 1.92 million tons in 2013, a 1.51% decrease compared to 2012.
- Commercial aircraft operations (landings and takeoffs) at LAX decreased about 6.95% in 2013 to 559,080 from 597,944 operations in 2012.
- LAX handled 75.46% of the regional passenger traffic in 2013. There was no substantial change in the distribution of passengers among the regional airports as compared to the previous year.
- LAX was the sixth busiest airport in the world and the third busiest in the United States for passenger traffic in calendar year 2013.

## LAX Air Traffic Activity

LAWA reports air traffic activity on a monthly basis throughout the year. Reports are posted each month on the LAWA web site ([www.lawa.org](http://www.lawa.org)). The attached reports entitled "Traffic Comparison Report (TCOM)" and "Volume of Air Traffic (VOAT)" provides passenger, cargo and aircraft operations activity statistics for Los Angeles International Airport for the Calendar Year 2013.

### LAX Passenger Volume

As shown in the attached reports, passenger volume totaled approximately 66.7 Million Annual Passengers (MAP) in 2013, a 4.68% increase compared to the previous year. LAX passenger volume reached its peak in 2000 at 67.3 MAP. LAX passenger levels in 2013 remained 650,000 below the peak levels set in 2000.

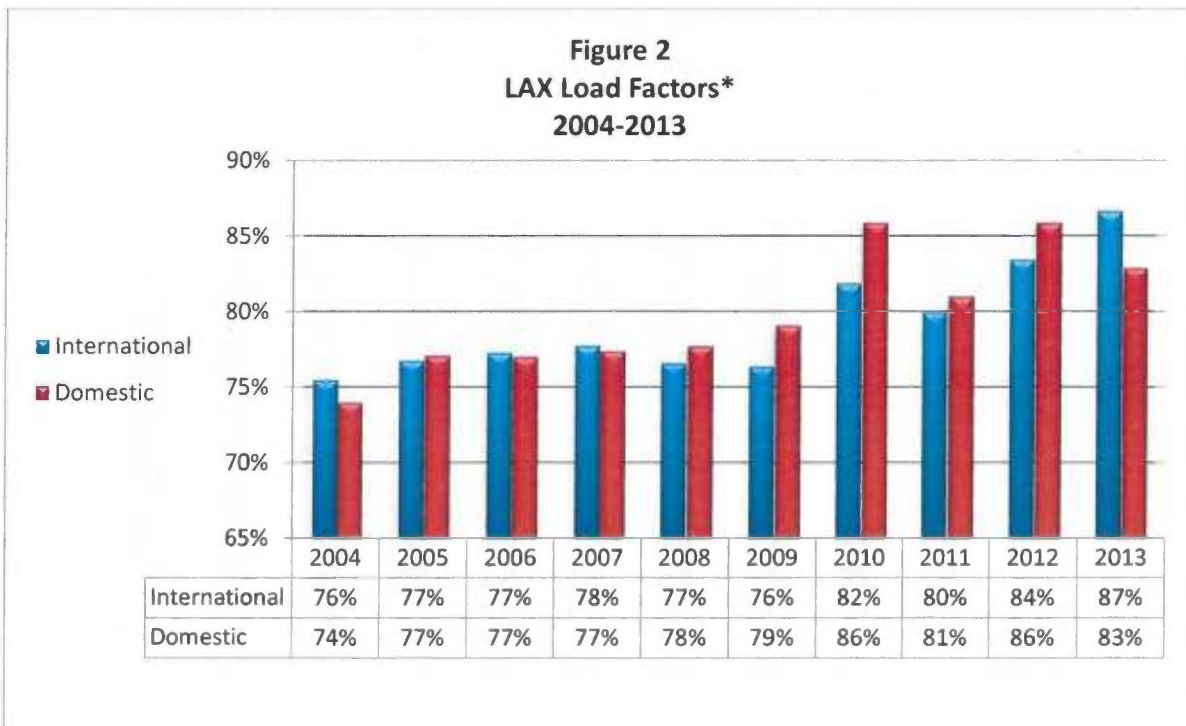


Data Source: RAMS

In 2013, international passengers increased to approximately 17.9 MAP a 4.08% increase over the previous year 2012. The percentage share of international passengers has increased slightly over the last 10 years from approximately 26.02% in 2004 to approximately 26.93% in 2013.

## LAX Load Factor

Load factor is the percentage of seats filled per aircraft. Average Load Factor (ALF) includes LAX's entire operations for the calendar year. Figure 2 - "LAX Average Load Factor 2003-2013," below shows the change in ALF at LAX since 2003. LAX ALF stood at 84.3% in 2013.

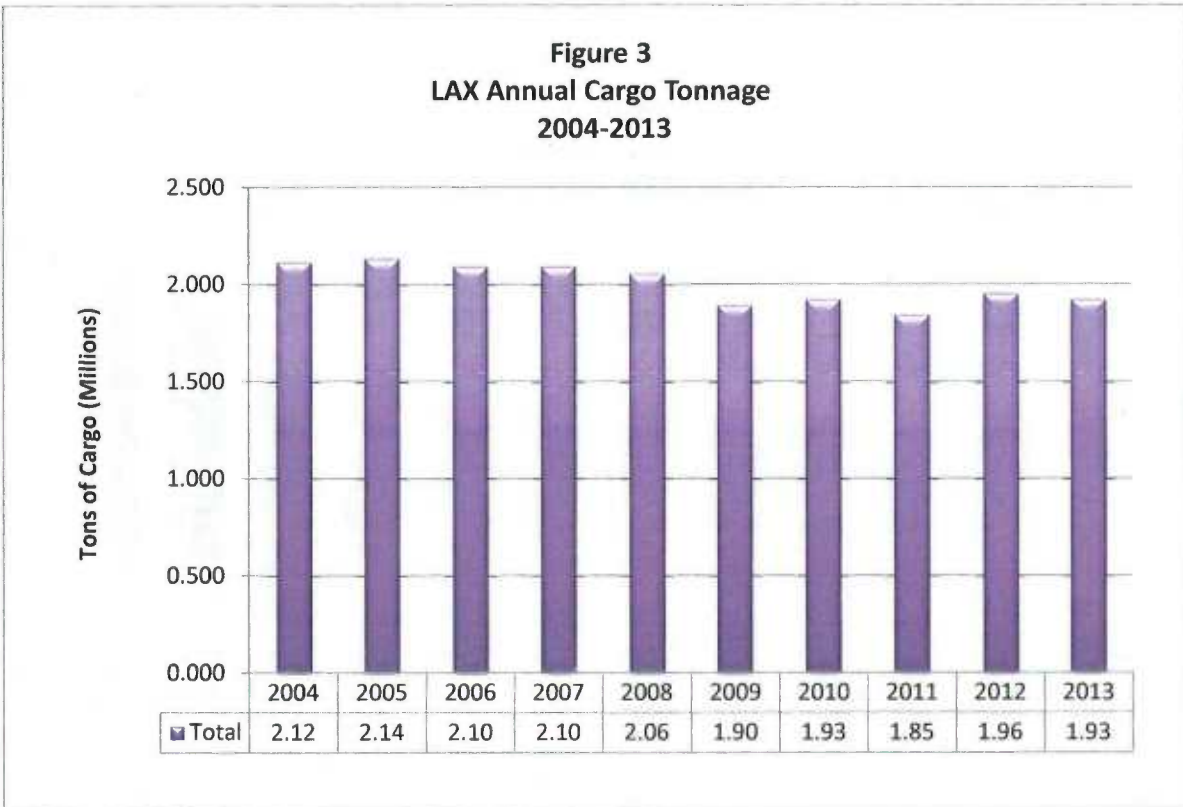


\*Percentages are rounded up

Data Source: T-100 DOT Reports

## LAX Cargo Volume

Total cargo volume in Calendar Year 2013 totaled 1.93 Million Annual Tons, a 1.51% decrease from the previous year 2012. Figure 3 – “LAX Annual Cargo Tonnage 2003-2013” shows historical cargo volumes for LAX between 2003 and 2013.

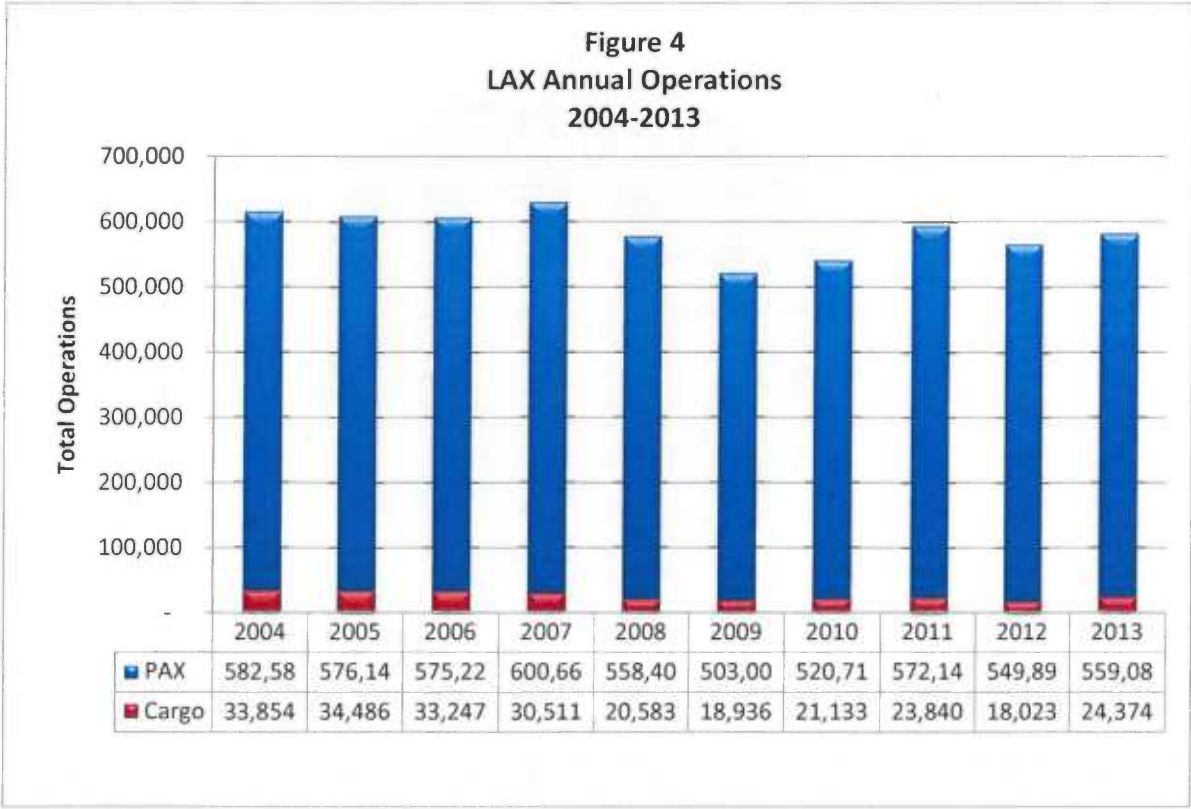


Data Source: RAMS

LAX Commercial Aircraft Operations

The number of commercial aircraft operations (landings and takeoffs). Commercial operations totaled 559,080 in 2013, slightly lower than the 597,944 commercial operations in 2012. The number of aircraft operations in 2013 was 6.95% lower than in 2012.

Passenger operations over the last ten years since 2004 have decreased 4.03% compared to a 9.77% increase in passenger volume. The difference is best explained by the increasing load factors and larger aircraft that have occurred at LAX and industry wide. The average number of passengers per passenger operation at LAX increased from 107 in 2012 to 119 in 2013. *Figure 4 - "LAX Annual Operations 2003-2013"* shows the change in operations at LAX between 2003 and 2013. Operations data in Figure 4 includes only scheduled, commuter and charter service; it excludes cargo, military and other operations.

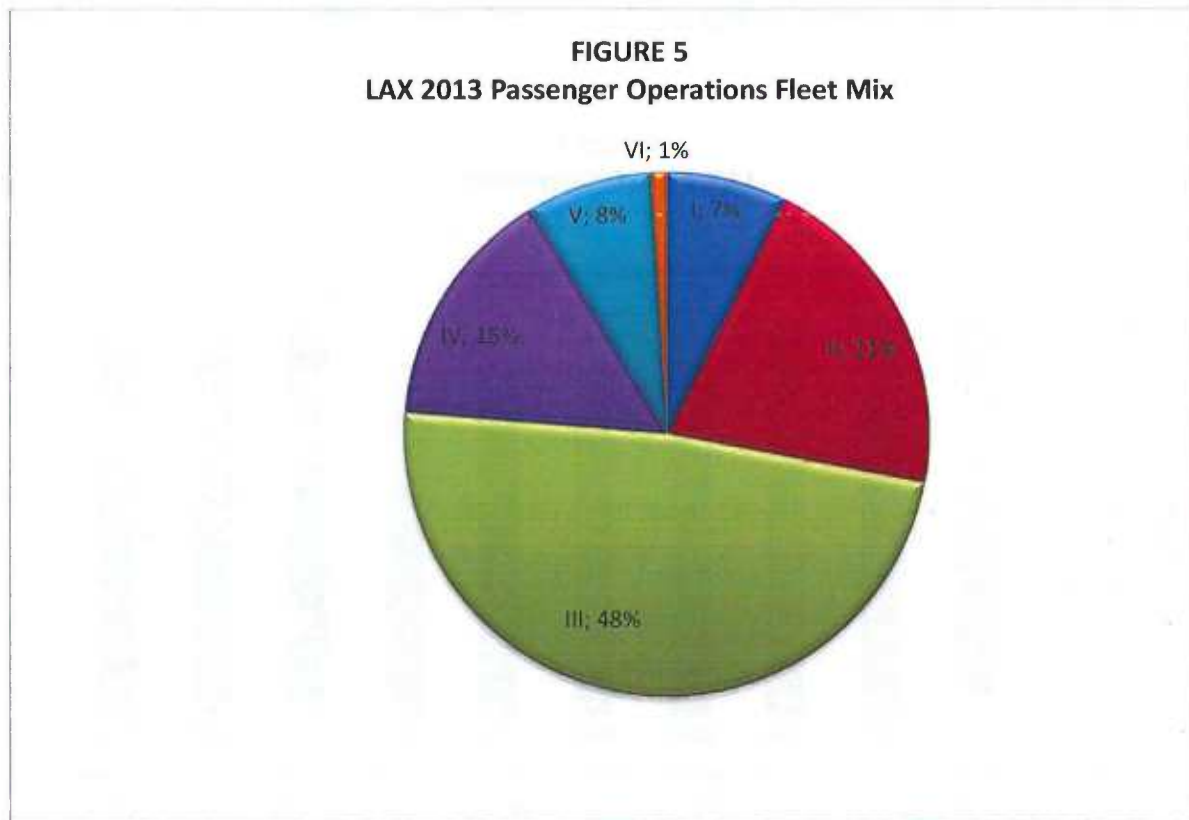


Data Source: RAMS

LAX Fleet Mix

The fleet mix or types of aircraft used at LAX changes as airlines seek to match aircraft size to demand and lower operating costs. As shown on *Figure 5 - "LAX 2013 Passenger Operations Fleet Mix"*, the number of FAA Airport Design Group (ADG) VI aircraft (such as the Airbus A380) have grown at LAX since their introduction in 2008 but they remain only 1% of the overall fleet mix.

The largest percentage share of passenger operations at the airport is found within ADG III at 48.30%. These narrow body jets consist primarily of the Boeing 737 series and the Airbus A320 series.



**TABLE 1**  
**FAA Aircraft Design Groups**

	Wingspan (ft)	Tail Height (ft)
Group I	< 49	< 20
Group II	49 - < 79	20 - < 30
Group III	79 - < 118	30 - < 45
Group IV	118 - < 171	45 - < 60
Group V	171 - < 214	60 - < 66
Group VI	214 - < 262	66 - < 80

## Aviation Activity in the Los Angeles Region

There are six primary commercial airports in the six-county Southern California region. These airports in total served approximately 86.88 Million Annual Passengers and approximately 2.6 Million Annual Tons of air cargo in 2013. Together, they generated approximately 1.28 million take-offs and landings of commercial and private aircraft.

The Southern California Association of Governments (SCAG) collects and reports passenger, cargo and operations activity for commercial airports within the SCAG five county area. The latest reports are attached. In 2013, regional passenger volume increased 2.3% compared to 2012. *Table 2 "Aviation Activity SCAG Region Air Carrier Airports"* below summarizes the 2013 passengers, cargo, and operations totals by airport.

**Table 2**  
**Aviation Activity SCAG Region Air Carrier Airports**  
**2013**

<b>Airport</b>	<b>Passengers</b>	<b>Cargo (Tons)</b>	<b>Total Operations</b>
Bob Hope	3,844,092	52,906	130,560
John Wayne	9,232,789	17,568	248,225
LAX	66,667,619	1,926,050	559,080
Long Beach	2,942,973	24,336	251,957
Ontario	3,912,501	460,535	43,079
Palm Springs	1,752,180	118,800	50,756
<b>Total</b>	<b>88,352,154</b>	<b>2,600,195</b>	<b>1,283,657</b>



Table 3 "Aviation Activity Percentage Share SCAG Region Air Carrier Airport" shows the percentage share of total regional aviation activity handled by each airport in 2013 in the areas of passengers, cargo, and total operations.

<b>Table 3</b> <b>Aviation Activity</b> <b>SCAG Region Air Carrier Airports</b> <b>2013</b>			
<b>Airport</b>	<b>Passengers</b>	<b>Cargo</b>	<b>Total Operations</b>
Bob Hope	4.35%	2.03%	10.17%
John Wayne	10.45%	0.68%	19.34%
LAX	75.46%	74.07%	43.55%
Long Beach	3.33%	0.94%	19.63%
Ontario	4.43%	17.71%	3.36%
Palm Springs	1.98%	4.57%	3.95%
<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

Table 4 - "Airport Share of Regional Passenger Traffic SCAG Region Air Carrier Airports 1996-2014" shows the airport share of regional passenger traffic.

<b>Table 5</b> <b>Airport Share of Regional Passenger Traffic</b> <b>SCAG Region Air Carrier Airports</b> <b>1996-2013</b>							
	Los Angeles	Ontario	Long Beach	John Wayne	Burbank	Palm Springs	Regional
	(LAX)	(ONT)	(LGB)	(SNA)	(BUR)	(PSP)	Total
1996	74.40%	8.00%	0.60%	9.40%	6.20%	1.40%	100.00%
1997	74.60%	7.80%	0.80%	9.60%	5.80%	1.50%	100.00%
1998	74.90%	7.90%	0.80%	9.10%	5.80%	1.50%	100.00%
1999	75.40%	7.70%	1.00%	8.80%	5.60%	1.50%	100.00%
2000	76.10%	7.60%	0.70%	8.80%	5.30%	1.40%	100.00%
2001	75.20%	8.20%	0.70%	8.90%	5.50%	1.40%	100.00%
2002	72.20%	8.40%	1.90%	10.20%	5.90%	1.40%	100.00%
2003	69.70%	8.30%	3.60%	10.80%	6.00%	1.60%	100.00%
2004	70.50%	8.10%	3.40%	10.80%	5.70%	1.60%	100.00%
2005	69.60%	8.20%	3.40%	10.90%	6.20%	1.60%	100.00%
2006	69.60%	8.00%	3.10%	11.00%	6.50%	1.70%	100.00%
2007	69.30%	8.00%	3.20%	11.10%	6.60%	1.80%	100.00%
2008	70.50%	7.30%	3.40%	10.60%	6.30%	1.80%	100.00%
2009	71.47%	6.18%	3.68%	11.01%	5.80%	1.85%	100.00%
2010	72.50%	5.91%	3.66%	10.63%	5.48%	1.83%	100.00%
2011	73.69%	5.42%	3.71%	10.25%	5.12%	1.80%	100.00%
2012	74.19%	5.02%	3.73%	10.32%	4.73%	2.01%	100.00%
2013	75.46%	4.43%	3.33%	10.45%	4.35%	1.98%	100.00%