



*Los Angeles  
World Airports*

# **2011 AVIATION ACTIVITY ANALYSIS REPORT**

**May 2012**

**AVIATION ACTIVITY ANALYSIS  
LAX PLAN COMPLIANCE REVIEW  
MAY 2012**

**Purpose of This Study**

Per Section 7 Subsection G, 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 at LAX”. The report is also to compile aviation activity statistics for other airports in the Los Angeles region and the proportion of regional aviation activity served at each of these airports for monitoring and reporting purposes.

The following is an updated version of the seventh Aviation Activity Analysis completed and submitted since the Los Angeles City Council’s approval of the LAX Plan and Mitigation Monitoring and Reporting Program in December 2004.

**Summary and Conclusions**

An analysis of LAX and regional air traffic activity for January through December 2011 led to the following conclusions:

- Passenger volume at LAX totaled 61.8 Million Annual Passengers (MAP) in 2011, a 4.73% increase compared to the previous year.
- Cargo volume at LAX decreased 3.8% in 2011 compared to 2010 to approximately 1.85 Million Annual Tons.
- Commercial aircraft operations (landings and takeoffs) at LAX decreased about 5.9% in 2011 to 541,852 from 575,835 operations in 2010. Commercial operations are 2.9% below the level of 613,895 observed in 2002.

## **LAX Air Traffic Activity**

LAWA reports air traffic activity on a monthly basis throughout the year. Reports are generally available within 30 days of the end of the reporting month and are posted each month on the LAWA web site ([www.lawa.org](http://www.lawa.org)). This information is a consolidation of the individual airline reports submitted to LAWA each month as required by LAWA's airline operating agreements. These reports were used as the source of data for the following analysis.

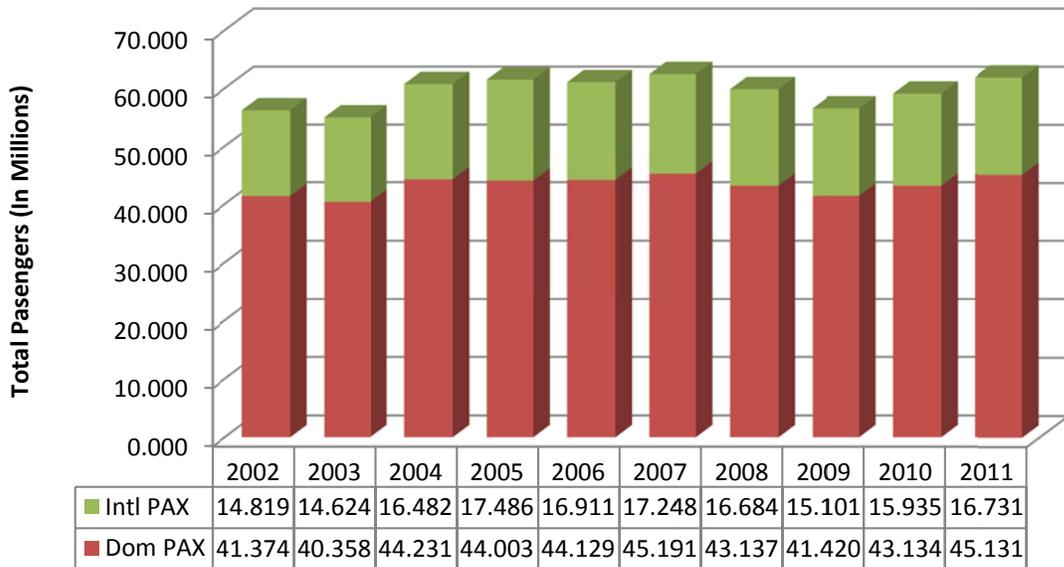
The attached December 2011 reports titled "Traffic Comparison Report (TCOM)" and "Volume of Air Traffic (VOAT)" provides passenger, cargo and aircraft operations activity statistics for Los Angeles International Airport for the Calendar Year 2011.

## LAX Passenger Volume

As shown in the attached reports, passenger volume totaled 61.8 Million Annual Passengers (MAP) in 2011, a 4.73% increase compared to the previous year. LAX passenger volume reached its peak in 2000 at 67.3 MAP. The terrorist attacks of September 11, 2001 (9/11) re-shaped the aviation industry business model and stunted growth for a decade. This significant event in American history forced the aviation industry to correct the inefficiencies of how the aviation business was previously conducted in order for airlines to be as profitable as they were before 9/11. Growth of the industry has been slow and steady since then. LAX took six (6) years to surpass 2001 passenger levels, but did not surpass the 2001 operation levels.

The cost to operate an airline was the biggest factor that affected the industry. The airlines corrected this by adapting to the new generation of larger aircraft that have more seats, consolidating flights by the reduction of the frequency of routes to large hubs, and increasing direct flights and overall load factors for all flights. High fuel prices, the global recession, bankruptcies, acquisitions and mergers were all influences that shaped the new aviation business model to be more efficient and profitable. Also, airlines continued to charge passengers for incremental services such as checked baggage and meals. Thus, LAX passenger levels were 5,668,625 annual passengers below 2002 levels. LAX passenger traffic would still need to increase by approximately 8% to reach the previous peak passenger level of 67.3 MAP.

**Figure 1**  
**LAX Annual Passengers in Millions**  
**2002-2011**



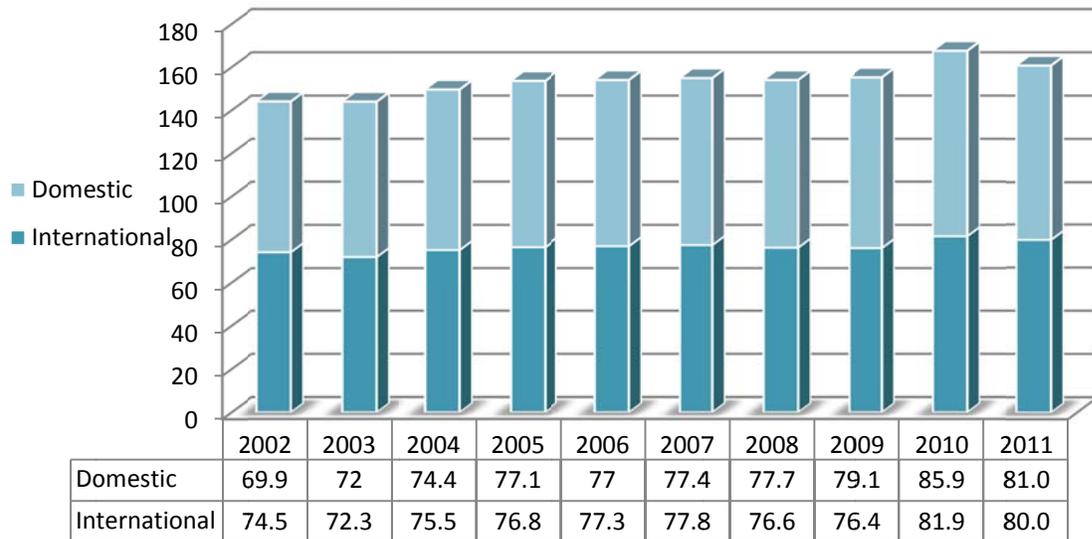
Data Source: RAMS

In 2011, international passengers increased by 4.99% compared to 2010 to 16.7 MAP. The percentage share of international passengers has increased slightly over the last 10 years from about 26% in 2002 to 27% in 2011.

LAX Load Factor

A number of national and regional factors have impacted growth at LAX. Extreme fuel price increases, global disasters, and the poor global economic environment all continued in 2011, which impacted the cost of operating flights. In response, airlines consolidated their routes and streamlined the markets they served. These actions resulted in increased load factors, reduced operating costs and increased the productivity of route systems. On the passenger side, ticket prices increased, the number of discounted seats available was reduced, and the airlines added fees for previously free services. All of these changes stabilized the aviation industry and made the industry profitable after a ten (10) year lull. Passengers paid more for air travel, which made travel less affordable and reduced the overall demand for air travel.

**Figure 2  
LAX Load Factors  
2002-2011**

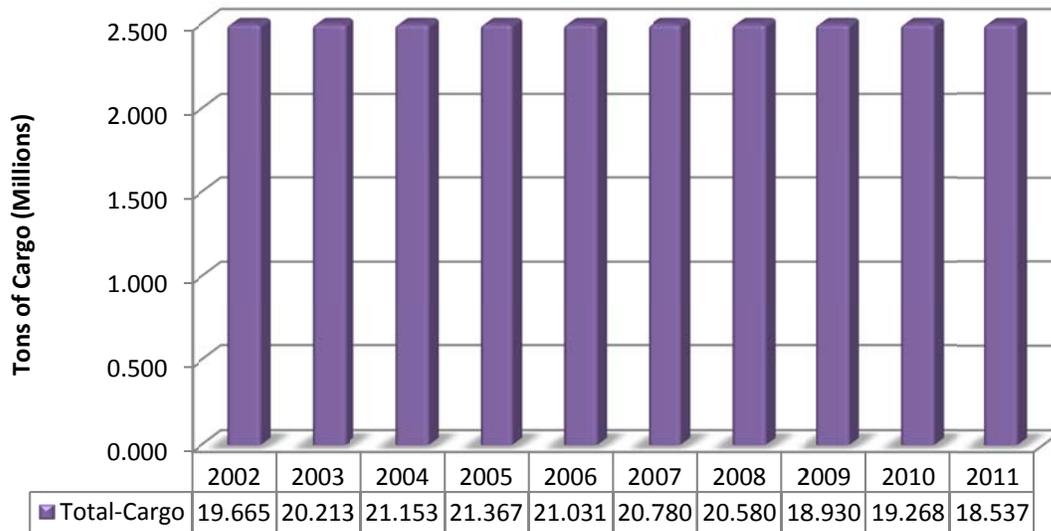


Load factors (the percentage of seats filled per aircraft) have risen significantly at LAX over the last decade. Figure 2 - “LAX Load Factors 2002-2011,” below shows the change in load factors at LAX since 2002. Load factors reached a high, averaging 84% in 2010. Load factors dropped to an average of 80.5% in 2011. Airlines maximized their flights to reflect the change in the aviation business model, which includes more efficient routes and aircraft that fit specific demand.

### LAX Cargo Volume

As shown on the attached TCOM and VOAT reports, total cargo volume in Calendar Year 2011 decreased 3.8% to 1.85 Million Annual Tons compared to 2010. Figure 3 – “LAX Annual Cargo Tonnage 2002-2011” shows historical cargo volumes for LAX between 2002 and 2011. About 58% of cargo tons at LAX was international in 2011.

**Figure 3  
LAX Annual Cargo Tonnage  
2002-2011**



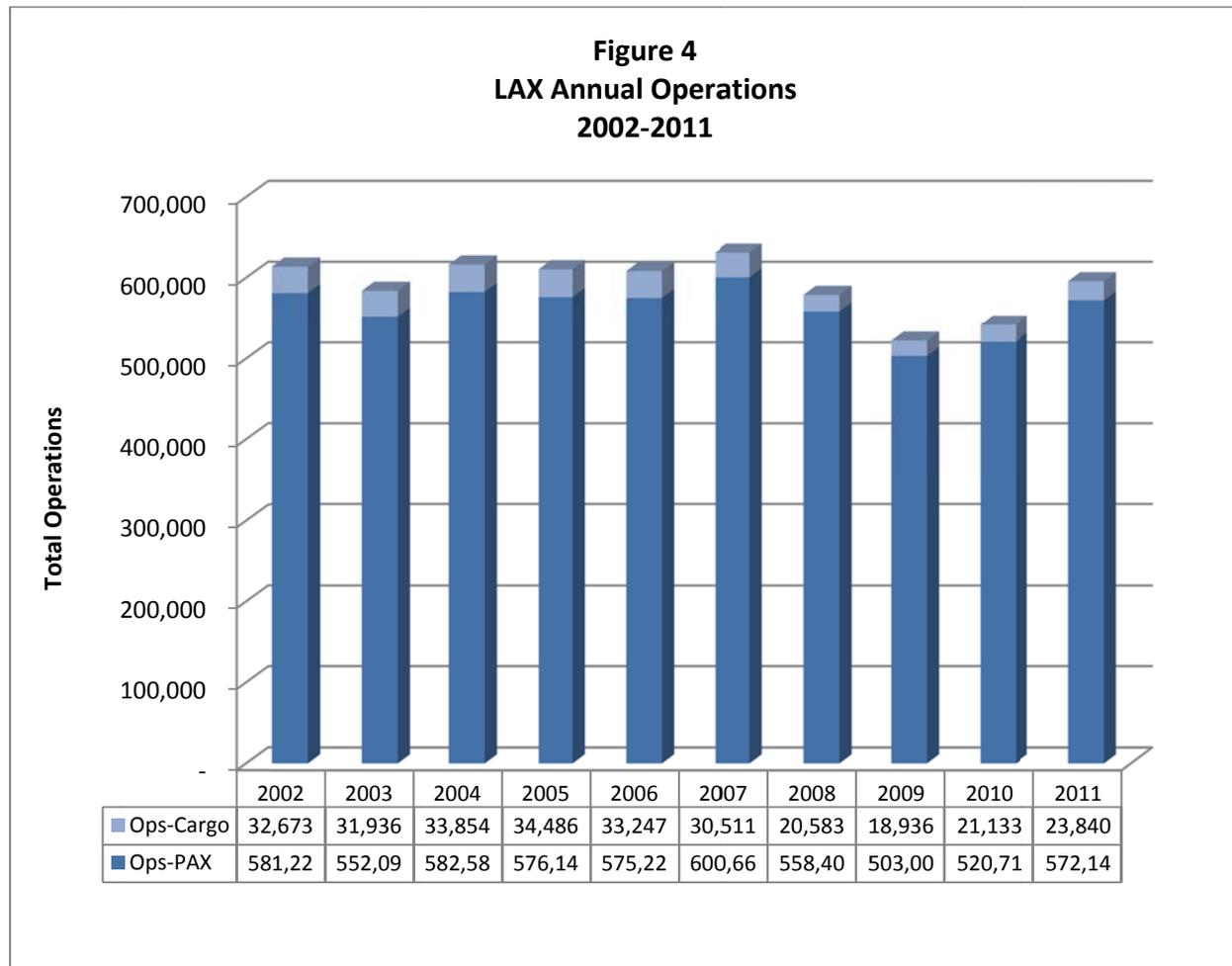
Data Source: RAMS

LAX Commercial Aircraft Operations

The number of commercial aircraft operations (landings and takeoffs) at LAX has dropped significantly since 2002 after reaching a peak of 748,077 annual operations in 2000. Commercial operations totaled 595,989 in 2011. In 2011, the number of aircraft operations was 3.5% higher than in 2010.

Passenger operations have decreased 15.6% since 2002 compared to a 9.2% increase in passenger volume. The difference is best explained by the increasing load factors that have occurred at LAX and industry wide. In 2011, airlines continued to consolidate routes and use airplanes that better meet the demand of passenger levels. The average number of passengers per passenger operation at LAX decreased from 113 in 2010 to 108 in 2011. Figure 4 – “LAX Annual Operations 2002-2011” shows the change in operations at LAX between 2002 and 2011.

In 2011, 16.8% of the passenger operations served nonstop international markets and 83.2% were domestic. International operations made up a slightly lower share of passenger operations in 2011 than in 2010. All-cargo operations made up about 4% of total operations and 7.9% of international operations in 2011. In 2011, all-cargo operations increased 12.8% compared to 2010.

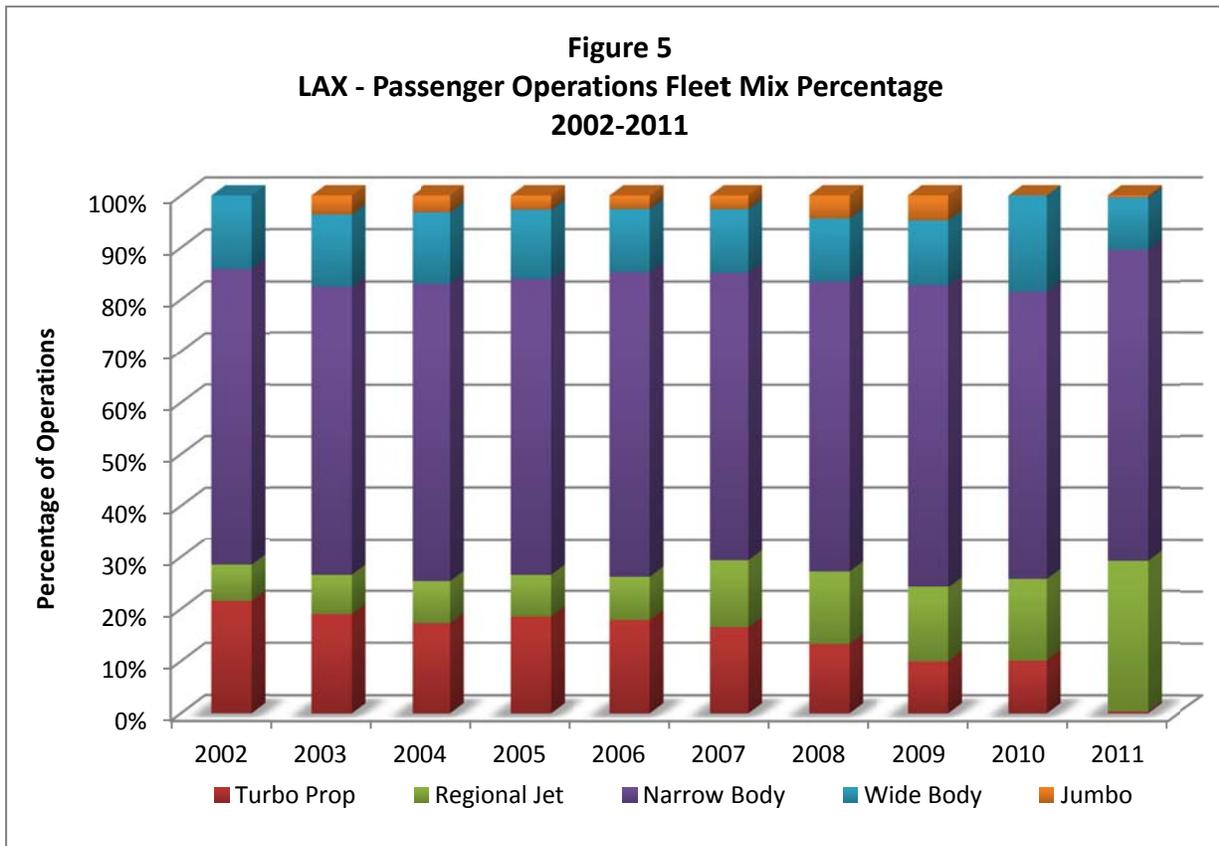


Data Source: Official Airline Guide

### LAX Fleet Mix

The fleet mix or types of aircraft used at LAX changes as airlines seek to match aircraft size to markets and lower operating costs over their route system. As shown on Figure 5 – "LAX – Passenger Operations Fleet Mix Percentage 2002-2011", the percentage of regional jets in the fleet increased dramatically from 2002 through 2011 with regional jets comprising less than 1% of scheduled operations at LAX in 2001 and 30% in 2011. The share of turboprop aircraft has continued to decline significantly since 2001. In 2001, nearly 25% of LAX passenger operations were turboprop aircraft compared to about 5% in 2011.

The share of wide body and jumbo jet passenger operations of all passenger operations at LAX increased between 2000 and 2002, reaching a peak at nearly 17%. The share has since decreased to approximately 10% of the total in 2011. The share of narrow body aircraft operations in 2011 was higher than in 2010: approximately 59% in 2011 compared to 56% in 2010. Narrow body aircraft continue to dominate the fleet at LAX.



Data Source: Official Airline Guide

**Los Angeles World Airports (LAWA)  
Traffic Comparison (TCOM)  
Los Angeles International Airport  
Calendar YTD January to December**

	Dec-2011	Dec-2010	<i>% Change</i>	Jan-2011 to Dec-2011	Jan-2010 to Dec-2010	<i>% Change</i>
<b><u>Passenger Traffic Totals</u></b>						
Domestic	3,638,344	3,725,006	-2.33 %	45,130,728	43,134,145	4.63 %
International	1,390,300	1,324,851	4.94 %	16,731,324	15,935,982	4.99 %
<b>Total</b>	<b>5,028,644</b>	<b>5,049,857</b>	<b>-0.42 %</b>	<b>61,862,052</b>	<b>59,070,127</b>	<b>4.73 %</b>
<b><u>Domestic Passengers</u></b>						
Scheduled Carriers	3,284,686	3,354,149	-2.07 %	39,935,050	38,946,051	2.54 %
Commuter Carriers	348,923	362,764	-3.82 %	5,175,693	4,152,255	24.65 %
Charter Carriers	4,735	8,093	-41.49 %	19,985	35,839	-44.24 %
<b>Total</b>	<b>3,638,344</b>	<b>3,725,006</b>	<b>-2.33 %</b>	<b>45,130,728</b>	<b>43,134,145</b>	<b>4.63 %</b>
<b><u>International Passengers</u></b>						
Tom Bradley Intl	686,089	663,370	3.42 %	8,564,341	8,635,397	-0.82 %
Terminal 2	378,756	379,516	-0.20 %	4,579,516	4,299,852	6.50 %
Terminal 3	93,831	89,211	5.18 %	1,073,655	970,187	10.66 %
Terminal 7	67,260	68,370	-1.62 %	754,101	602,139	25.24 %
Terminal 5	64,455	23,538	173.83 %	487,639	378,943	28.68 %
All Other Terminals	99,909	100,846	-0.93 %	1,272,072	1,049,464	21.21 %
<b>Total</b>	<b>1,390,300</b>	<b>1,324,851</b>	<b>4.94 %</b>	<b>16,731,324</b>	<b>15,935,982</b>	<b>4.99 %</b>
<b><u>US Customs Arrivals by Terminal</u></b>						
Tom Bradley Intl	414,980	411,412	0.87 %	5,322,245	5,246,013	1.45 %
Terminal 2	144,215	137,926	4.56 %	1,750,859	1,649,335	6.16 %
Terminal 7	43,923	59,831	-26.59 %	591,741	442,061	33.86 %
Terminal 5	40,996	0	100.00 %	195,321	163,562	19.42 %
Terminal 4	15,095	13,833	9.12 %	176,861	193,610	-8.65 %
All Other Terminals	0	0	0.00 %	0	0	0.00 %
<b>Total</b>	<b>659,209</b>	<b>623,002</b>	<b>5.81 %</b>	<b>8,037,027</b>	<b>7,694,581</b>	<b>4.45 %</b>
<b><u>Air Cargo (Tons)</u></b>						
Mail	9,105	8,931	1.95 %	80,442	74,034	8.66 %
Freight	150,919	155,108	-2.70 %	1,773,215	1,852,791	-4.29 %
<b>Total</b>	<b>160,024</b>	<b>164,039</b>	<b>-2.45 %</b>	<b>1,853,658</b>	<b>1,926,825</b>	<b>-3.80 %</b>
<b><u>FAA Aircraft Movement</u></b>						
Air Carrier	39,800	38,537	3.28 %	473,282	455,340	3.94 %
Air Taxi	9,387	8,031	16.88 %	109,885	97,723	12.45 %
General Aviation	1,496	1,522	-1.71 %	18,355	20,060	-8.50 %
Military	195	143	36.36 %	2,390	2,712	-11.87 %
<b>Total</b>	<b>50,878</b>	<b>48,233</b>	<b>5.48 %</b>	<b>603,912</b>	<b>575,835</b>	<b>4.88 %</b>

**Los Angeles World Airports (LAWA)  
Volume of Air Traffic (VOAT)  
Los Angeles International Airport**

	December 2011			Calendar YTD January to December 2011		
	<i>Domestic</i>	<i>International</i>	<i>Total</i>	<i>Domestic</i>	<i>International</i>	<i>Total</i>
<b><u>Passenger Traffic Totals</u></b>						
<b>Scheduled Carriers</b>						
Departures	1,644,254	707,075	2,351,329	19,981,673	8,337,486	28,319,159
Arrivals	1,640,432	675,878	2,316,310	19,953,377	8,303,929	28,257,306
Total	3,284,686	1,382,953	4,667,639	39,935,050	16,641,415	56,576,465
<b>Scheduled Commuters</b>						
Departures	171,746	3,292	175,038	2,548,396	41,024	2,589,420
Arrivals	177,177	3,426	180,603	2,627,297	42,276	2,669,573
Total	348,923	6,718	355,641	5,175,693	83,300	5,258,993
<b>Charter</b>						
Departures	795	358	1,153	11,424	3,002	14,426
Arrivals	3,940	271	4,211	8,561	3,607	12,168
Total	4,735	629	5,364	19,985	6,609	26,594
<b>Grand Total</b>	<b>3,638,344</b>	<b>1,390,300</b>	<b>5,028,644</b>	<b>45,130,728</b>	<b>16,731,324</b>	<b>61,862,052</b>
<b><u>Air Cargo (Tons)</u></b>						
Cargo figures may not add up due to rounding						
<b>Freight</b>						
Departure	34,420	38,552	72,972	371,181	477,163	848,345
Arrival	32,433	45,513	77,946	352,778	572,093	924,871
Total	66,853	84,065	150,919	723,959	1,049,257	1,773,215
<b>Mail</b>						
Departure	3,423	2,734	6,157	29,383	24,657	54,040
Arrival	2,131	818	2,948	19,582	6,819	26,402
Total	5,554	3,552	9,105	48,966	31,477	80,442
<b>Grand Total</b>	<b>72,407</b>	<b>87,617</b>	<b>160,024</b>	<b>772,924</b>	<b>1,080,733</b>	<b>1,853,658</b>
<b><u>Flight Operations (excludes cargo operations)</u></b>						
<b>Scheduled</b>						
Departures	14,145	3,756	17,901	159,372	45,385	204,757
Arrivals	14,168	3,760	17,928	159,323	45,594	204,917
Total	28,313	7,516	35,829	318,695	90,979	409,674
<b>Commuter</b>						
Departures	4,991	58	5,049	68,120	716	68,836
Arrivals	4,991	58	5,049	68,119	716	68,835
Total	9,982	116	10,098	136,239	1,432	137,671
<b>Charter</b>						
Departures	27	5	32	225	37	262
Arrivals	32	5	37	200	54	254
Total	59	10	69	425	91	516
<b>Grand Total</b>	<b>38,354</b>	<b>7,642</b>	<b>45,996</b>	<b>455,359</b>	<b>92,502</b>	<b>547,861</b>

**Los Angeles World Airports (LAWA)  
Passenger Traffic Comparison by Terminal  
Los Angeles International Airport**

	December 2011			Calendar YTD January to December 2011		
	<u>Domestic</u>	<u>International</u>	<u>Total</u>	<u>Domestic</u>	<u>International</u>	<u>Total</u>
<b>Imperial Terminal</b>						
Departure	132	0	132	201	0	201
Arrival	1,228	0	1,228	1,296	0	1,296
<b>Total</b>	<b>1,360</b>	<b>0</b>	<b>1,360</b>	<b>1,497</b>	<b>0</b>	<b>1,497</b>
<b>Terminal 1</b>						
Departure	367,056	0	367,056	4,516,783	0	4,516,783
Arrival	376,555	0	376,555	4,537,094	0	4,537,094
<b>Total</b>	<b>743,611</b>	<b>0</b>	<b>743,611</b>	<b>9,053,877</b>	<b>0</b>	<b>9,053,877</b>
<b>Terminal 2</b>						
Departure	25,613	194,020	219,633	311,902	2,339,810	2,651,712
Arrival	24,015	184,736	208,751	299,076	2,239,706	2,538,782
<b>Total</b>	<b>49,628</b>	<b>378,756</b>	<b>428,384</b>	<b>610,978</b>	<b>4,579,516</b>	<b>5,190,494</b>
<b>Terminal 3</b>						
Departure	237,737	79,035	316,772	2,825,919	889,684	3,715,603
Arrival	243,336	14,796	258,132	2,815,702	183,971	2,999,673
<b>Total</b>	<b>481,073</b>	<b>93,831</b>	<b>574,904</b>	<b>5,641,621</b>	<b>1,073,655</b>	<b>6,715,276</b>
<b>Terminal 4</b>						
Departure	400,382	37,521	437,903	4,815,761	497,212	5,312,973
Arrival	407,282	16,977	424,259	4,825,284	194,469	5,019,753
<b>Total</b>	<b>807,664</b>	<b>54,498</b>	<b>862,162</b>	<b>9,641,045</b>	<b>691,681</b>	<b>10,332,726</b>
<b>Terminal 5</b>						
Departure	176,238	27,009	203,247	2,905,096	287,761	3,192,857
Arrival	171,462	37,446	208,908	2,971,161	199,878	3,171,039
<b>Total</b>	<b>347,700</b>	<b>64,455</b>	<b>412,155</b>	<b>5,876,257</b>	<b>487,639</b>	<b>6,363,896</b>
<b>Terminal 6</b>						
Departure	233,711	22,437	256,148	2,565,392	231,051	2,796,443
Arrival	233,645	8,461	242,106	2,673,502	182,984	2,856,486
<b>Total</b>	<b>467,356</b>	<b>30,898</b>	<b>498,254</b>	<b>5,238,894</b>	<b>414,035</b>	<b>5,652,929</b>
<b>Terminal 7</b>						
Departure	215,731	33,535	249,266	2,718,230	387,897	3,106,127
Arrival	206,767	33,725	240,492	2,638,155	366,204	3,004,359
<b>Total</b>	<b>422,498</b>	<b>67,260</b>	<b>489,758</b>	<b>5,356,385</b>	<b>754,101</b>	<b>6,110,486</b>
<b>Terminal 8</b>						
Departure	153,435	10,458	163,893	1,812,877	123,218	1,936,095
Arrival	156,607	3,426	160,033	1,826,368	42,276	1,868,644
<b>Total</b>	<b>310,042</b>	<b>13,884</b>	<b>323,926</b>	<b>3,639,245</b>	<b>165,494</b>	<b>3,804,739</b>
<b>Misc. Terminal</b>						
Departure	164	358	522	4,049	469	4,518
Arrival	652	271	923	1,597	393	1,990
<b>Total</b>	<b>816</b>	<b>629</b>	<b>1,445</b>	<b>5,646</b>	<b>862</b>	<b>6,508</b>
<b>Tom Bradley Intl</b>						
Departure	6,596	306,352	312,948	65,283	3,624,410	3,689,693
Arrival	0	379,737	379,737	0	4,939,931	4,939,931
<b>Total</b>	<b>6,596</b>	<b>686,089</b>	<b>692,685</b>	<b>65,283</b>	<b>8,564,341</b>	<b>8,629,624</b>
<b>Grand Total</b>	<b>3,638,344</b>	<b>1,390,300</b>	<b>5,028,644</b>	<b>45,130,728</b>	<b>16,731,324</b>	<b>61,862,052</b>