

Airport Noise Management Annual Report 2015

The Airport Noise Management Report is a publication of the Airport Noise Management Office. This report provides an annual summary of Lambert –St. Louis International Airport's operations and noise complaints.



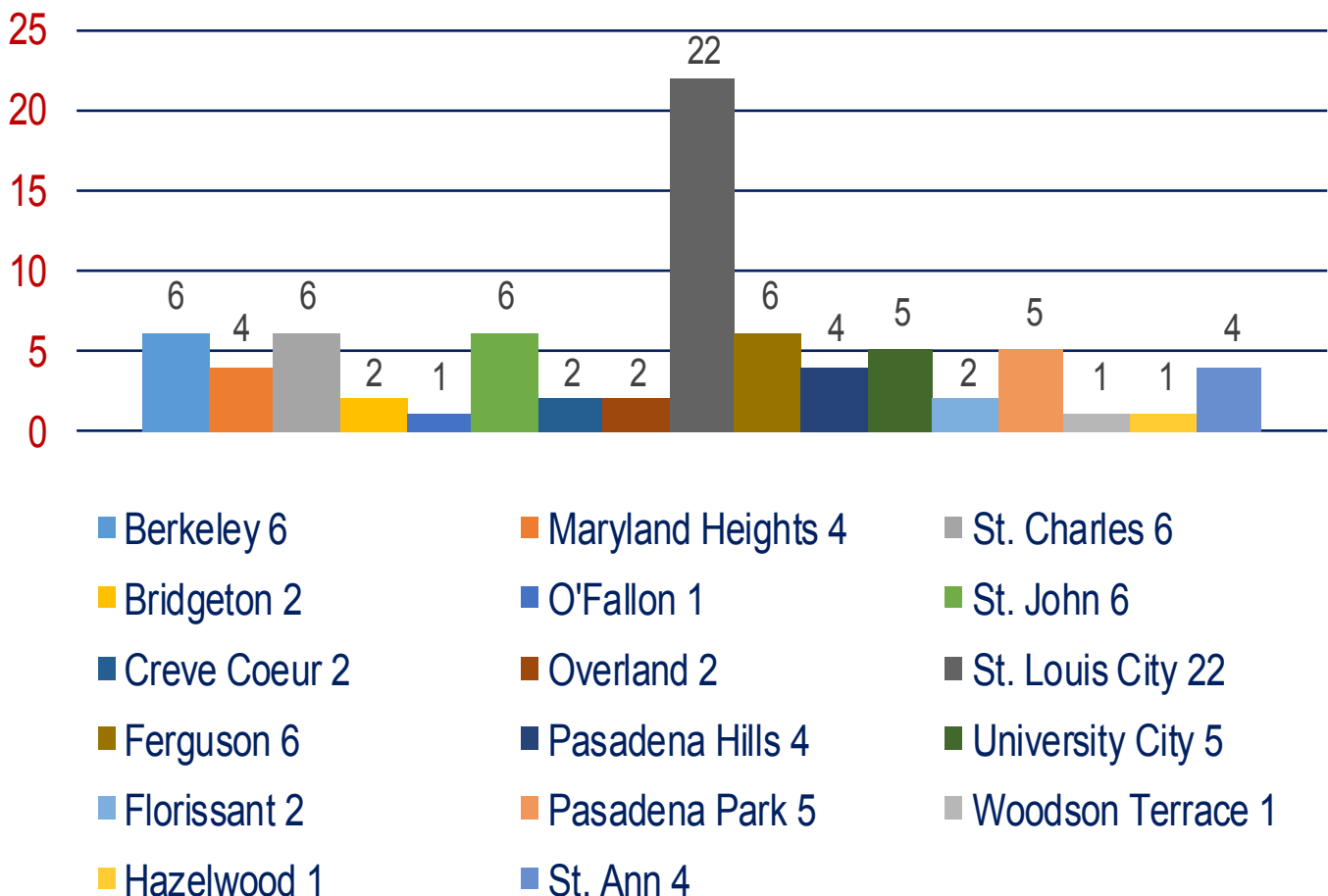
YEAR 2015

NOISE COMPLAINTS

There were 79 noise complaints received from callers in 17 different communities for the Year 2015, an increase of 54.9% from the 51 complaints made in the Year 2014. In the Year 2015, one caller from the City of St. Louis made 19 complaints (24%) and one caller from University City made 6 complaints (8%).

There were 10 complaints about night time operations (10:00 p.m. to 7:00 a.m.) and 69 complaints about day time operations (7:00 a.m. to 10:00 p.m.). Eighty-eight percent of the landings and take-offs (operations) were during the day time hours and twelve percent during the night time period.

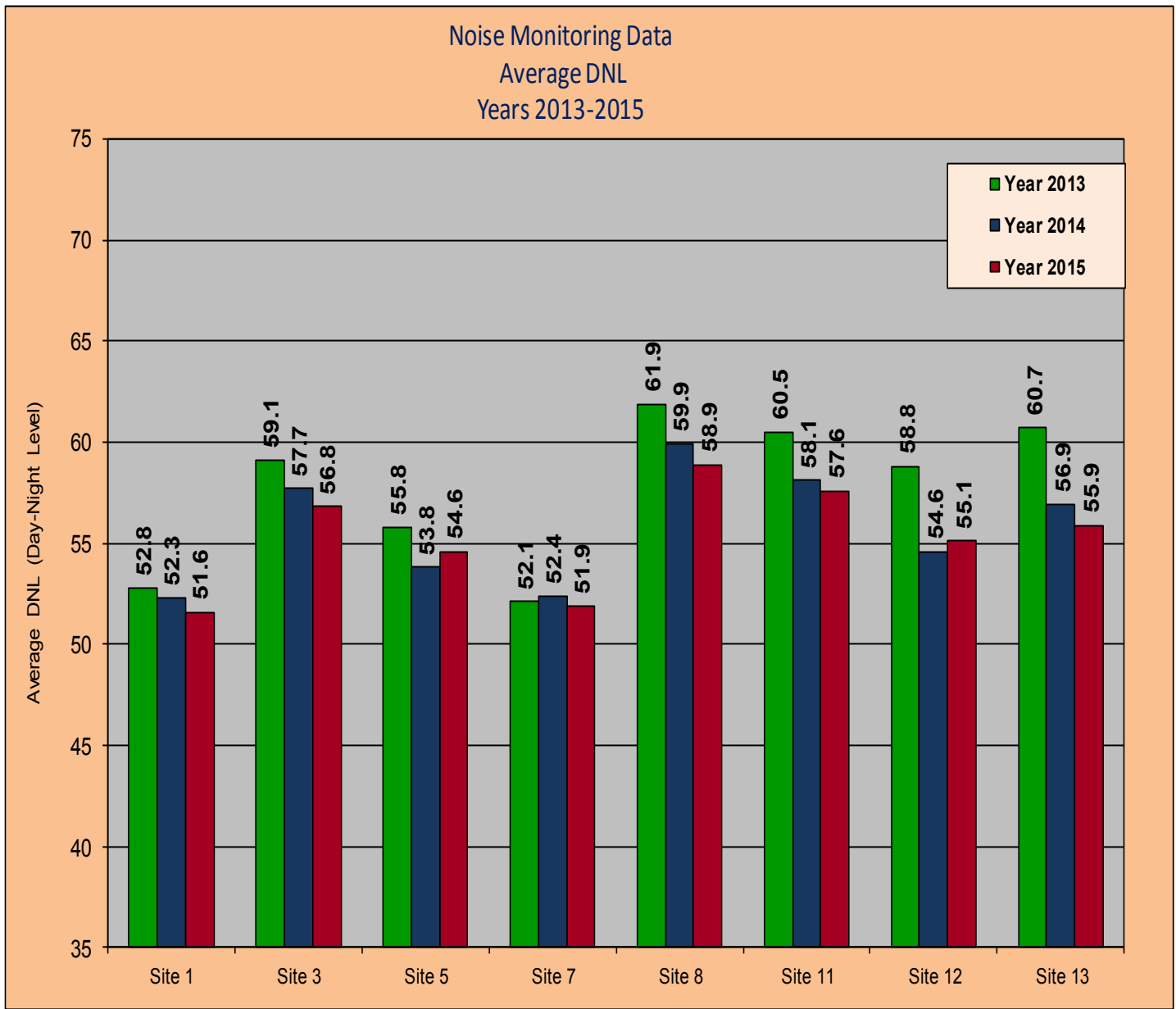
Number of Complaints by Community 2015



NOISE MONITORING DATA

The Average Annual DNL values for the years 2013 to 2015 for the eight permanent noise monitors are shown in the chart below. Two permanent noise monitors had an increase in DNL levels ranging from +.5 to +.8. Six permanent noise monitors had a decrease in DNL levels ranging from −.5 to −1.0. An increase/decrease of 3 DNL represents a doubling/halving of the noise energy.

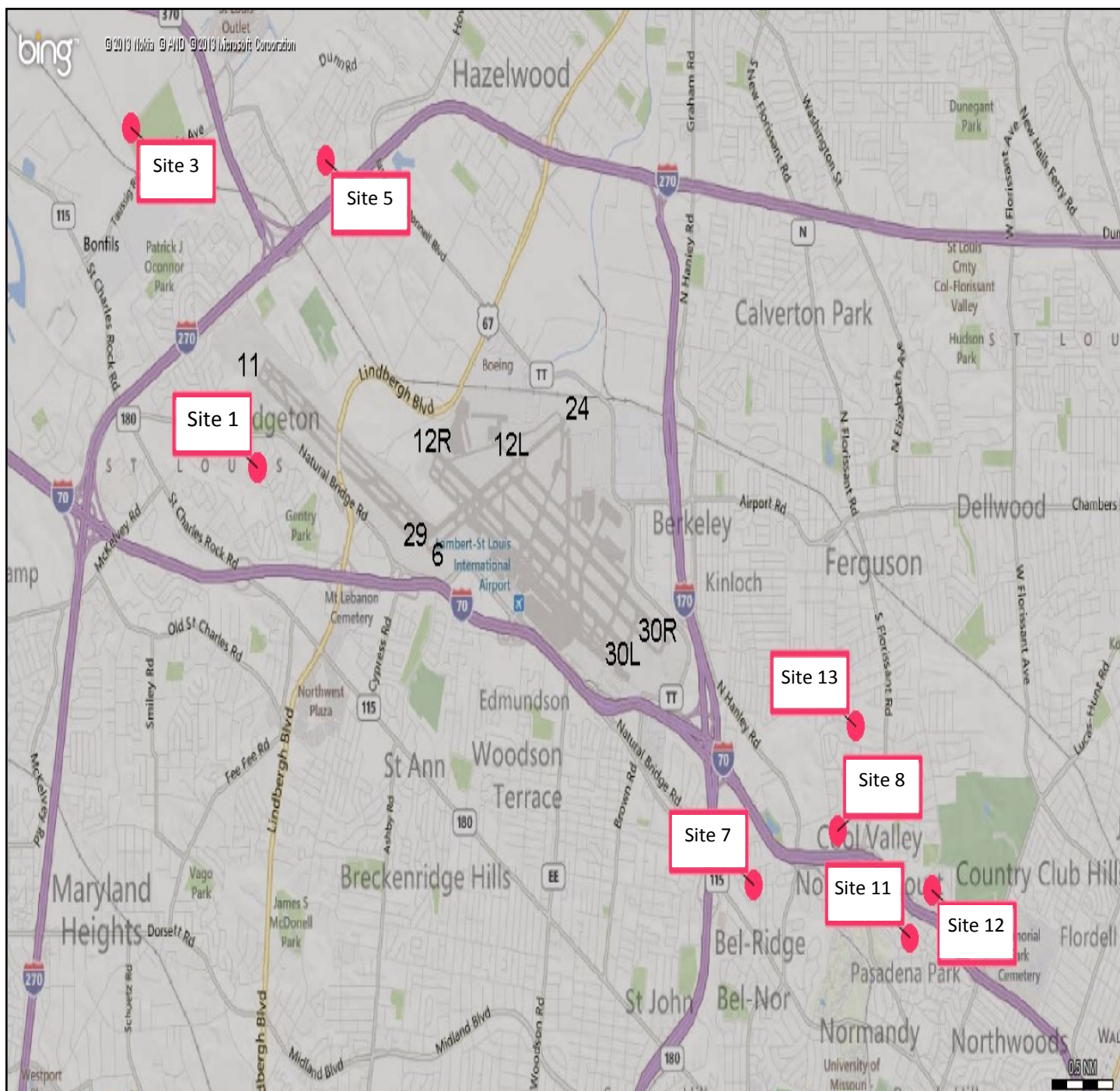
The DNL (Day-Night Level) metric represents noise exposure events over a 24 hour period. The DNL metric approximates the response characteristics of sound to the human ear. The higher the number on the scale, the louder the sound. To account for human sensitivity to noise between the hours of 10 p.m. and 7 a.m., noise events occurring during these hours receive a “penalty” when the DNL is calculated. Each night time event is measured as if ten daytime events occurred.



NOISE MONITORING LOCATIONS AND RUNWAY IDENTIFICATION

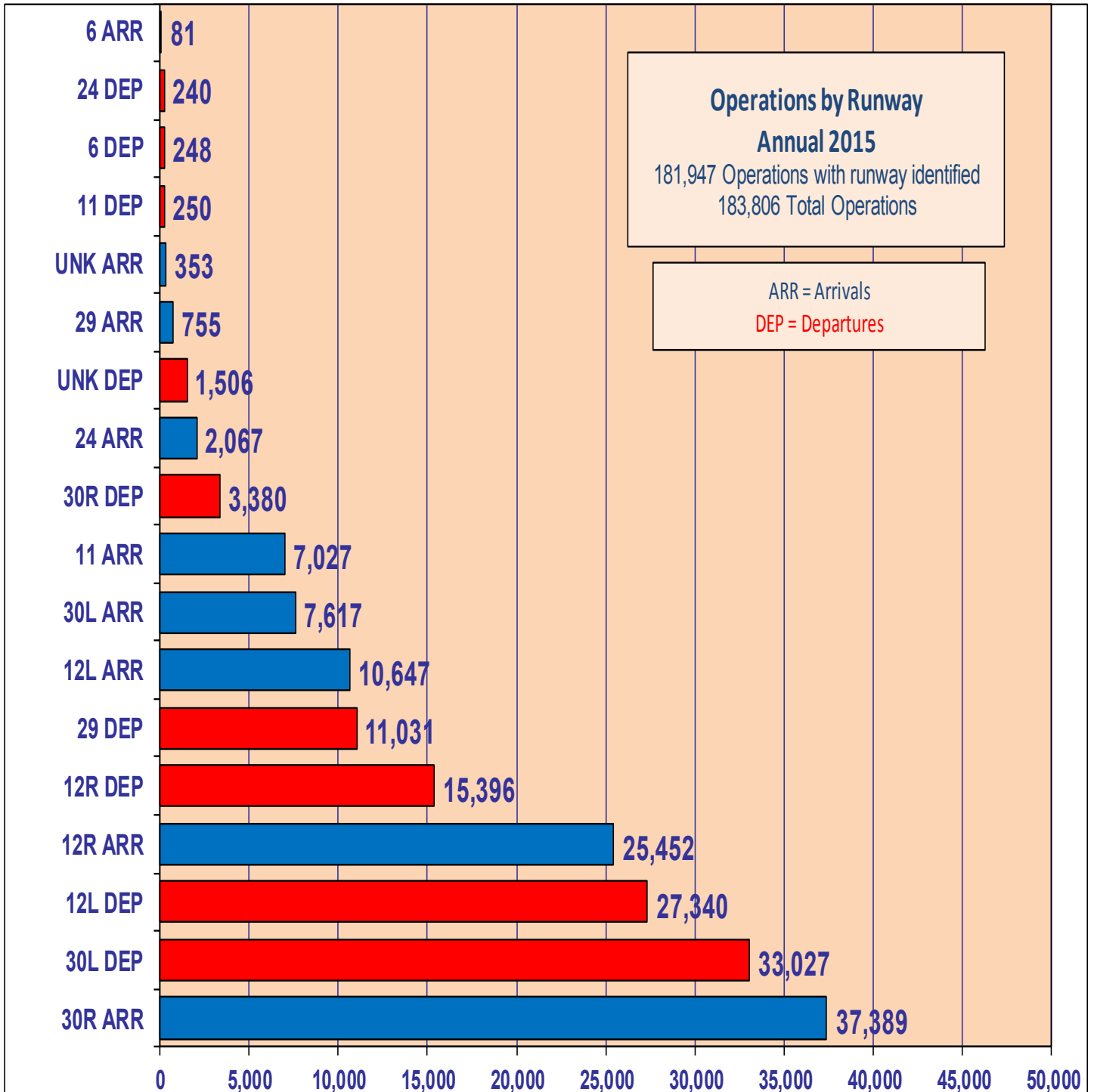
The Permanent Noise Monitoring Sites (NMS) are : Site 1- Benedetta, City of Bridgeton; Site 3- Ferguson Lane, Bridgeton Athletic Complex; Site 5-Villa Rosa & Auriesville, City of Hazelwood; Site 7-Belfore & Loganberry, City of Bel-Ridge; Site 8- Emerling, City of Cool Valley; Site 11-North Hills & Country Club, Village of Pasadena Park; Site 12-Belwood & Kirkland, City of Normandy; and, Site 13-North Hills & Brotherton, City of Ferguson.

The runways at Lambert-St. Louis International Airport are: 12R/30L (11,019'x200'), 12L/30R (9,003'x150'), 11/29 (9,001'x150'), and 6/24 (7,607'x150').



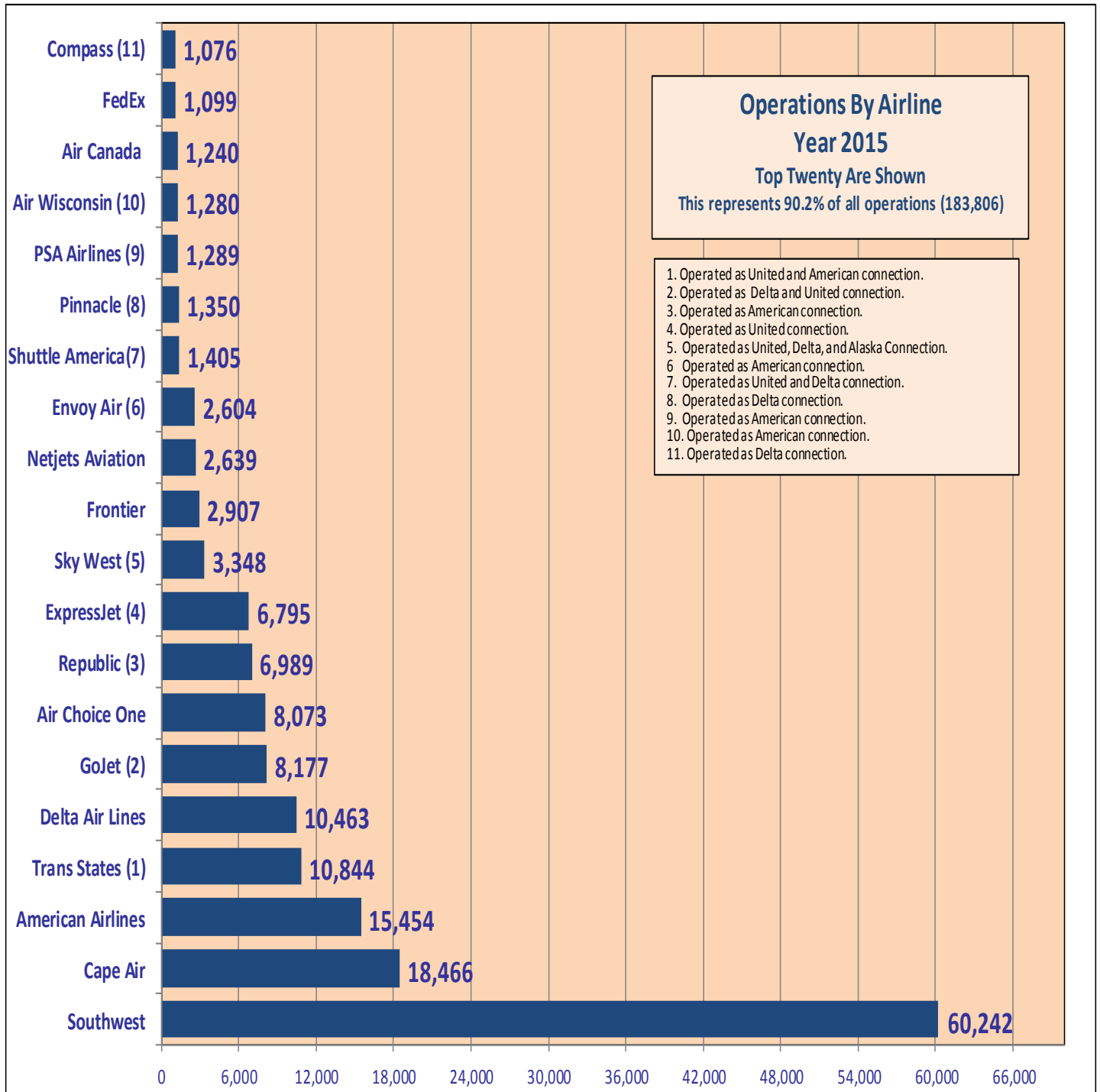
OPERATIONS BY RUNWAY

There were 183,806 operations recorded in the Year 2015 as compared to 181,856 operations in the Year 2014, an increase of 1.1%. The most utilized runway for arrivals was Runway 30R (37,389) with 20.5% all operations. The most utilized runway for departures was Runway 30L (33,027) with 18.1% of all operations. There were 181,947 (99%) in which the runway was identified and 1,859 operations (1%) where the runways were not identified.



OPERATIONS BY AIRLINE

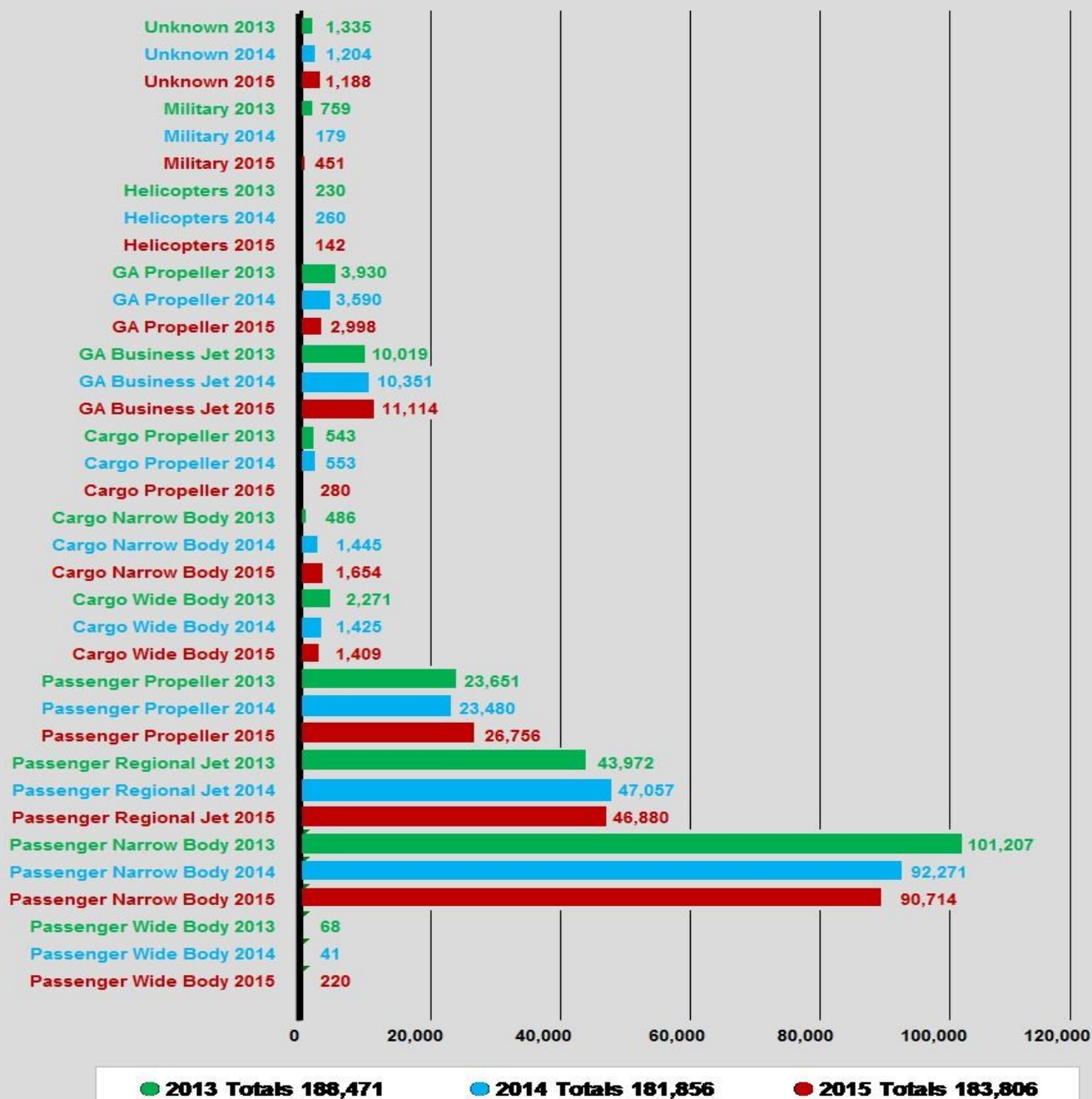
The top twenty airlines accounted for 90.2% of all operations. The top three airlines were Southwest Airlines with 32.7% of all operations, followed by Cape Air (10.0%), and American (8.4%). The 11 regional commercial passenger jet airlines in the top twenty had 45,157 (24.6%) operations. There were 136 Part 121 and Part 135 airlines that utilized Lambert-St. Louis International Airport during this period. Part 121 airlines are commercial scheduled airlines and Part 135 airlines are charter and air taxi.



OPERATIONS BY TYPE OF SERVICE BY YEAR

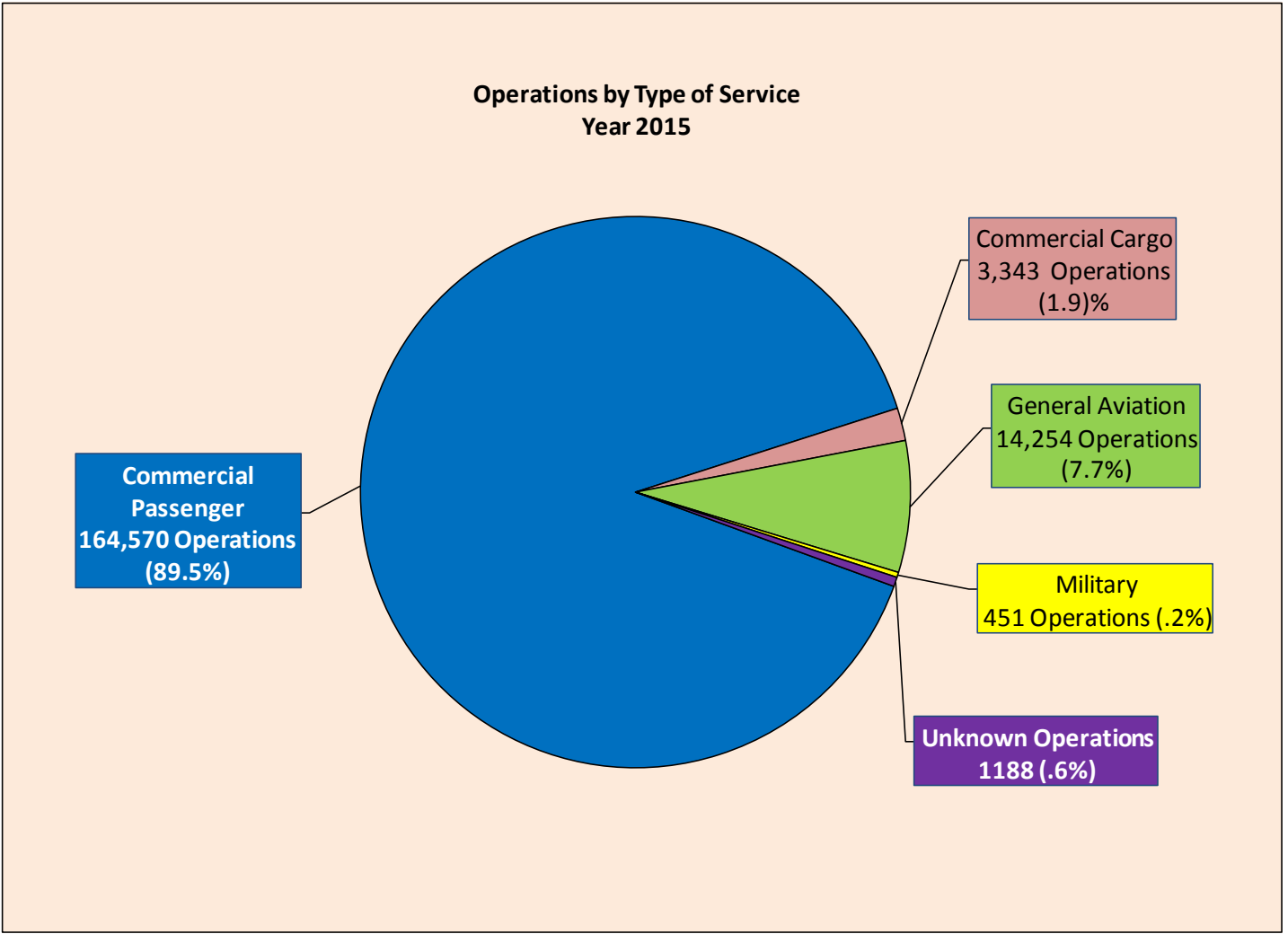
Passenger wide body aircraft in 2015 (220) had an increase of 436% from 2014 (41). In 2015, there were 90,714 (49%) commercial passenger narrow body operations as compared to 92,273 (50.7%) in 2014, a decrease of 1.7%. General aviation business jets (11,114) had an increase in 2015 of 7.6% from the same operations in 2014 (10,351). General aviation propeller operations in 2015 were 2,998 as compared to 3,594 in 2014, a decrease of 19.9%. There was an increase in 2015 for passenger wide body operations as a result of American Airlines testing, training, and certifying the B 787-800 aircraft for its passenger flight debut in May. The chart below is color coded for each category by year.

COMPARISON YEARS 2013 - 2015 OF FLEET MIX



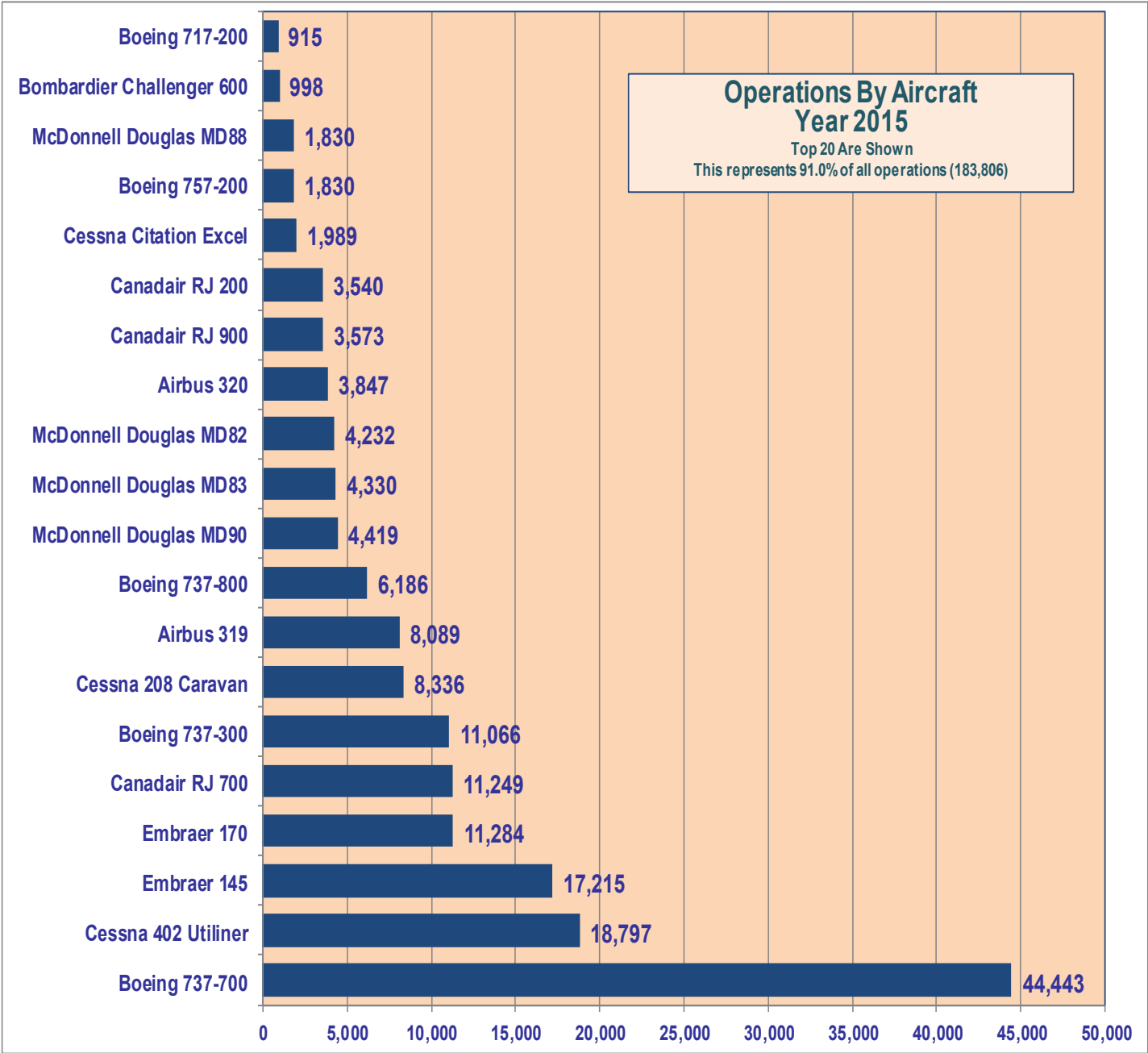
OPERATIONS BY TYPE OF SERVICE

There were 183,806 operations in the Year 2015. There are five different Types of Service, Commercial Passenger, Commercial Cargo, General Aviation, Military, and Unknown. The Unknown category are those aircraft that were not identified by either the airline or aircraft equipment type, or both. As indicated, the number one category was Commercial Passengers with 89.5% of all operations. General Aviation was at 7.7%, Commercial Cargo had 1.9%, and the Unknown category represented .6% of the total operations. Military operations are filtered and not all military operations are reported in the data.



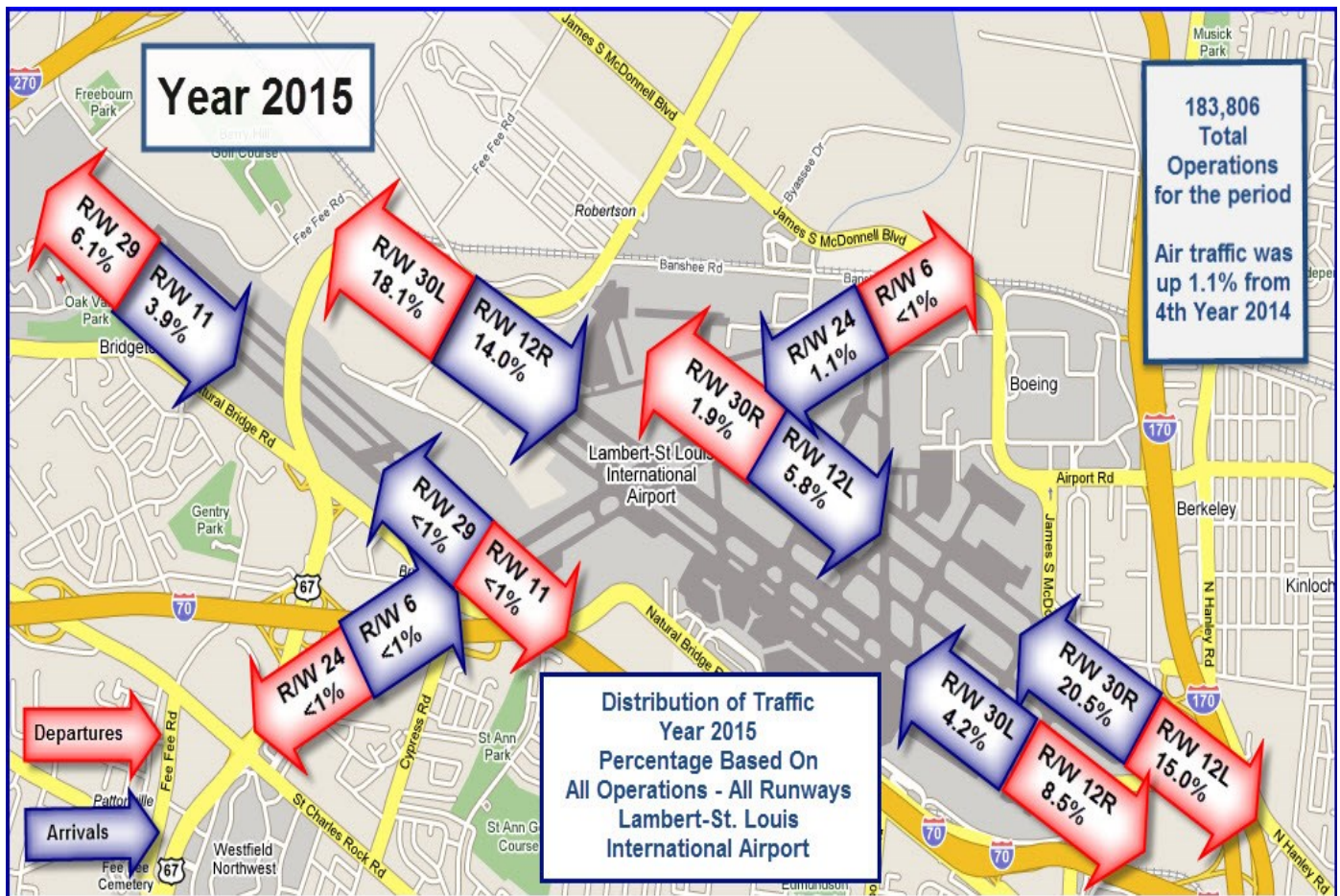
OPERATIONS BY AIRCRAFT

There were 183,806 operations recorded in the Year 2015. The most utilized aircraft during this period was the Boeing 737-700 series with 44,443 operations representing 24.2% of the fleet. Next was the Cessna 402 Utiliner operated primarily by Cape Air with 18,797 operations and 10.2% of the fleet. Third was the Embraer 145 aircraft with 17,215 operations or 9.3% of all operations. There were 230 different types of aircraft that utilized Lambert-St. Louis International Airport during this period.

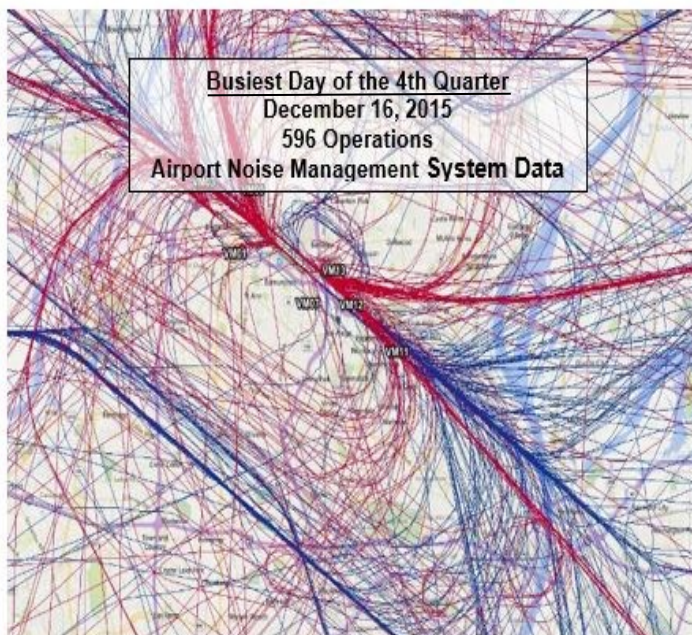
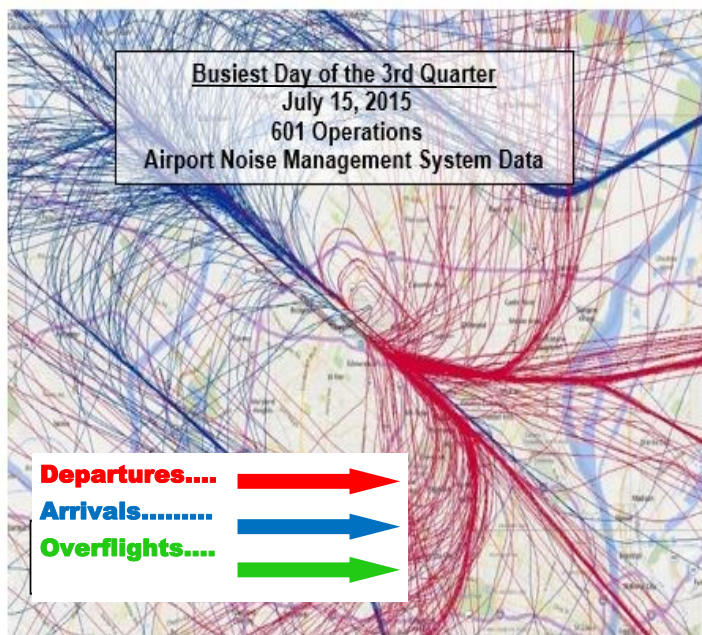
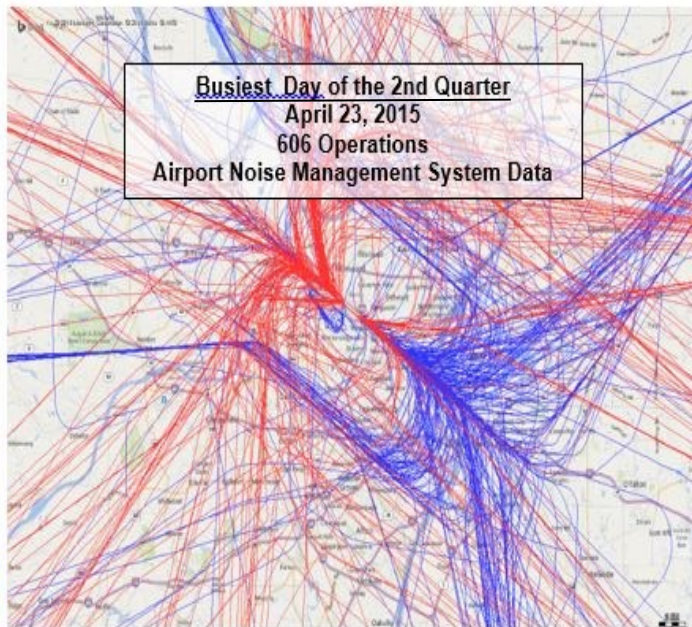
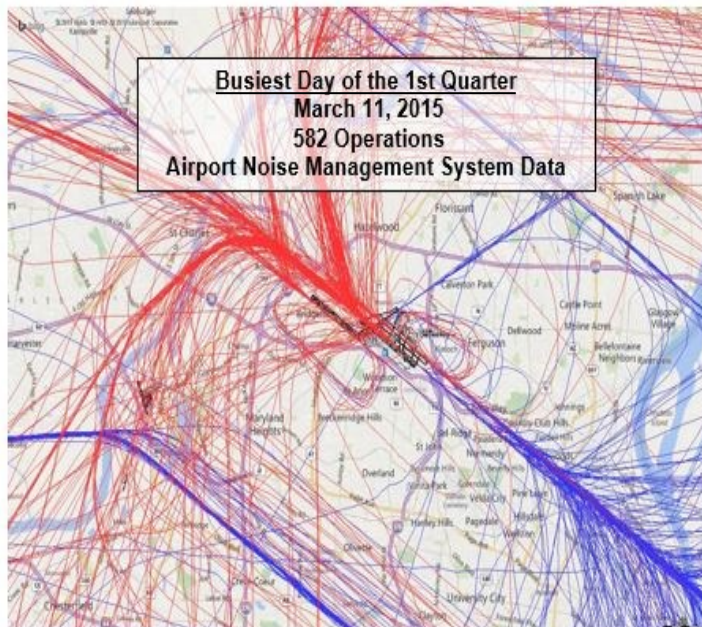


DISTRIBUTION OF TRAFFIC

There were 183,806 operations recorded in the Year 2015 compared to 181,856 operations in the Year 2014, an increase of 1.1%. The chart below shows the total percentages of use for all runways for this period. The most utilized runway for departures was Runway 30L (18.1%). The most utilized runway for arrivals was Runway 30R (20.5%). The crosswind runway 6-24 was the least used runway for this period. The Distribution of Traffic (Eastbound vs. Westbound) for the year 2015 was 47.5% eastbound and 52.5% westbound operations.



HIGHEST DAILY NUMBER OF OPERATIONS FOR EACH QUARTER IN 2015



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