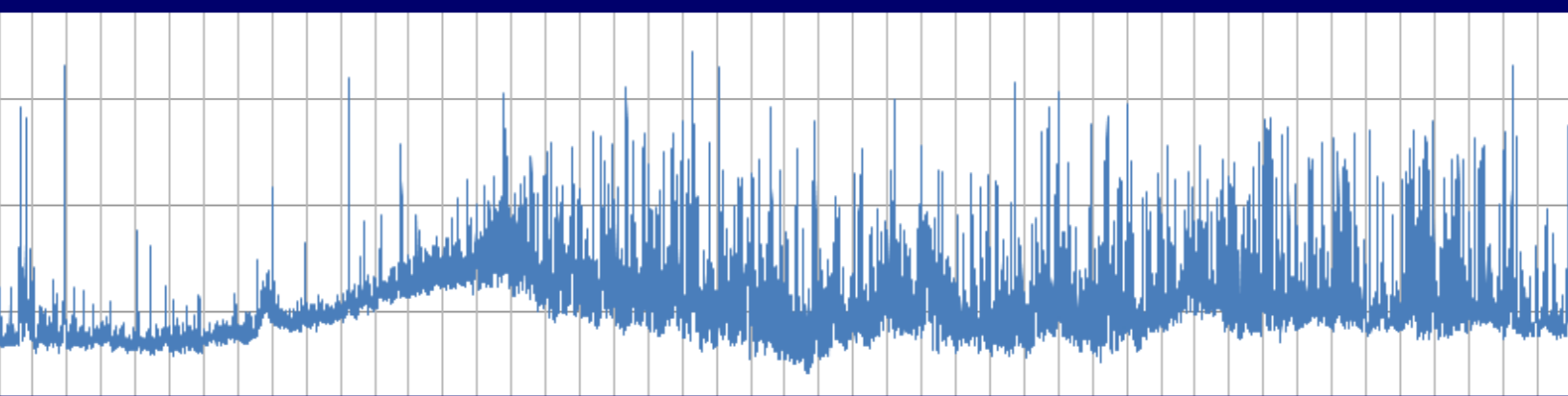




ST. LOUIS  
LAMBERT  
INTERNATIONAL  
AIRPORT™



**AIRPORT NOISE  
MANAGEMENT REPORT  
3rd Quarter 2019**



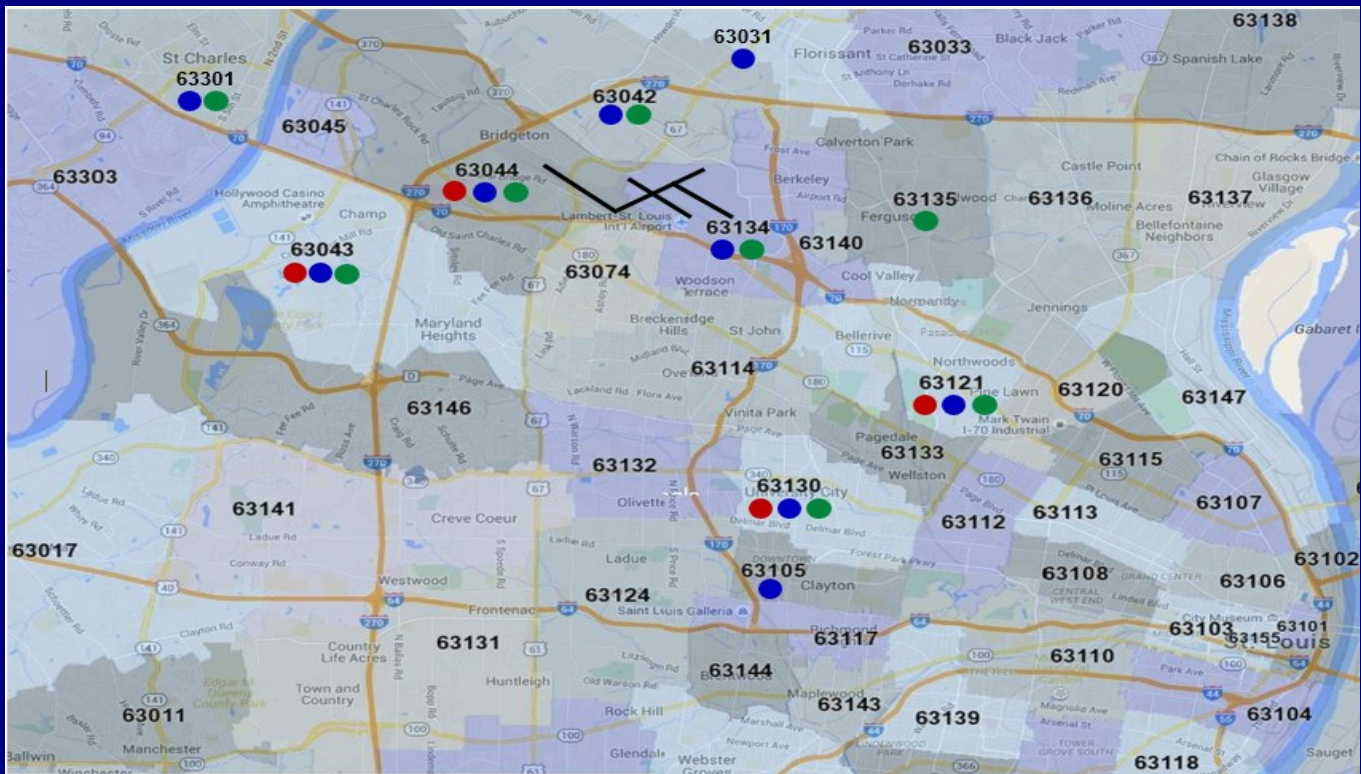
# Airport Noise Management Report 3rd Quarter 2019

The Airport Noise Management Report provides the 3rd Quarter 2019 summary of St. Louis Lambert International Airport's operations and noise complaints. The data in this report is from Harris, Inc. and not from FAA Air Traffic. This report is illustrative of trends and distribution and should not be construed as official traffic counts.

## 3RD QUARTER 2019

### NOISE COMPLAINTS

There were sixty four noise complaints received in the 3rd Quarter of 2019 compared to the sixteen complaints in 2018. The sixty four complaints were from twelve communities. Residents complained about loud, low, and frequent aircraft over their homes. Most of the complaints centered around the increased traffic on Runway 11/29. The Airport has three primary runways used for arrivals and departures. During the summer months and a part of September, Runway 12L/30R was closed to reconstruct the runway. Arrivals on Runway 11/29 (12,335) increased 49.4% from the 2nd Quarter of 2019 (8,259). Residents said that they weren't able to use their backyards, aircraft disturbed their sleep, and TV reception was disrupted. Ten complaints were about night-time operations (10 p.m. to 7 a.m.) and 54 complaints were about day-time operations (7 a.m. to 10 p.m.). Landings and take-offs (operations) during the day time hours accounted for 86.4% of the operations while 13.6% of the operations occurred during the night time period. The chart below shows number of complaints by zip code. Not all complainant zip codes are show on the map below.

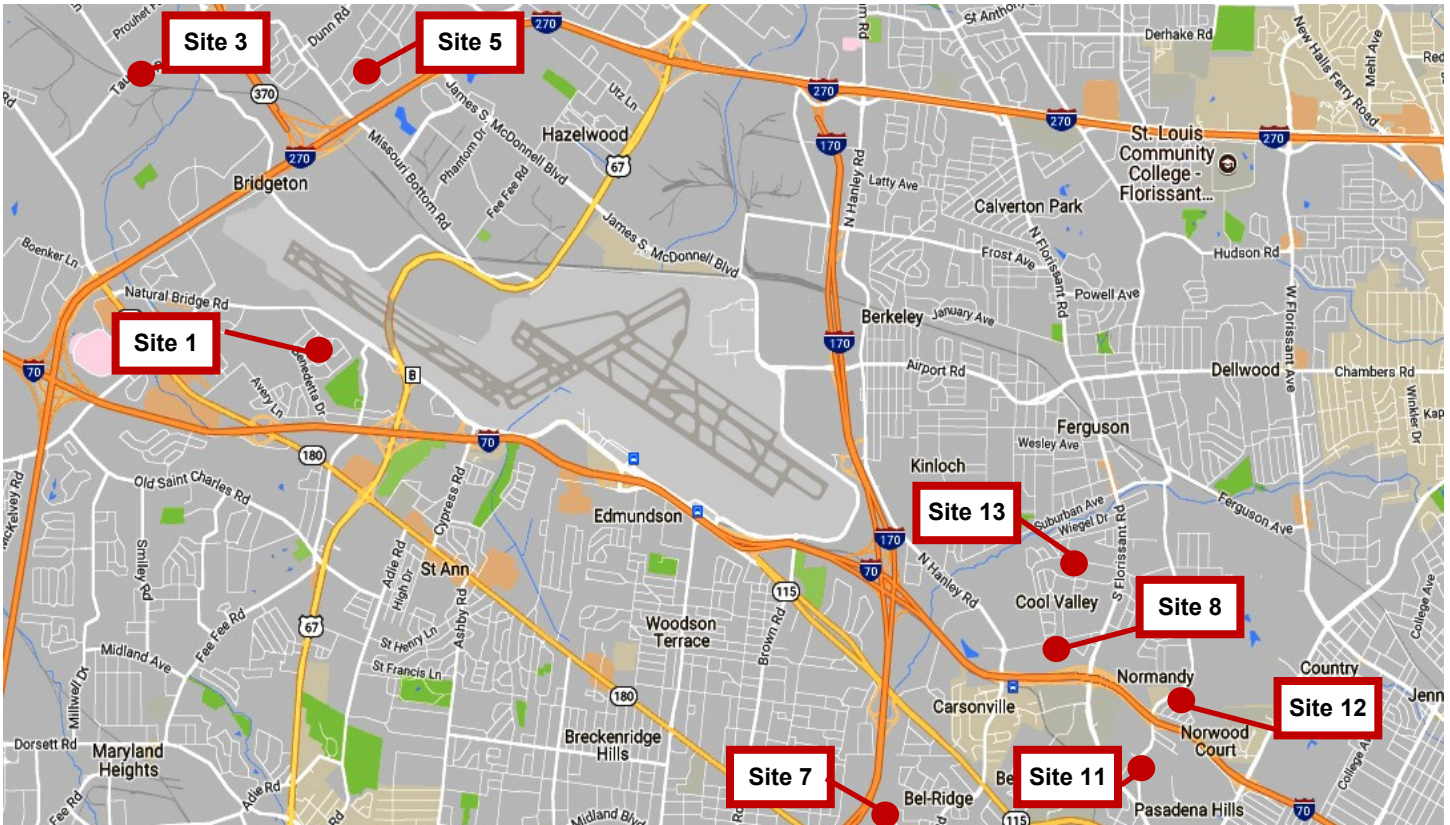


Qtr.	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls
1st	63044	3	63043	2	63130	1	63121	2	-	-	-	-	-	-	-	-	-	-	-	-
2nd	63376	1	63301	1	63134	1	63130	1	63121	10	63105	1	63044	12	63043	3	63042	1	63031	1
3rd	63301	2	63042	2	63044	42	63121	4	63135	2	63130	1	63134	10	63043	1	-	-	-	-
4th	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**RUNWAY IDENTIFICATION**

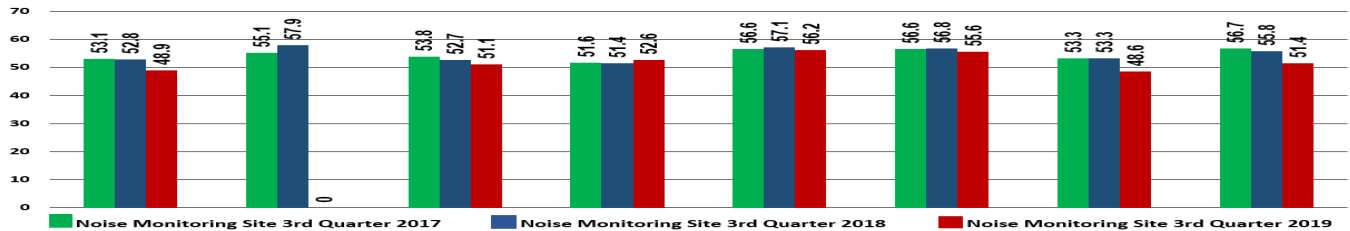
The runways at St. Louis Lambert International Airport are: 12R/30L (11,019'x200'), 12L/30R (9,003'x150'), 11/29 (9,001'x150'), and 6/24 (7,607'x150').

**PERMANENT NOISE MONITORING SITES**



The DNL (Day-Night average sound level) metric describes the total noise exposure during a given period. In computing DNL, an extra weighting of 10dB is assigned to any sound levels occurring between the hours of 10 pm to 7 am. The FAA has established 65 DNL as the threshold above which aircraft noise is considered to be incompatible with residential use. The eight noise monitoring sites are recording levels lower than 65 DNL. Site 3 was hit by a vehicle and was not operational in the 3rd Quarter of 2019.

**Noise Monitoring Data**  
3rd Quarter 2019 Average DNL (Day/Night/Level)  
Years 2017-2019

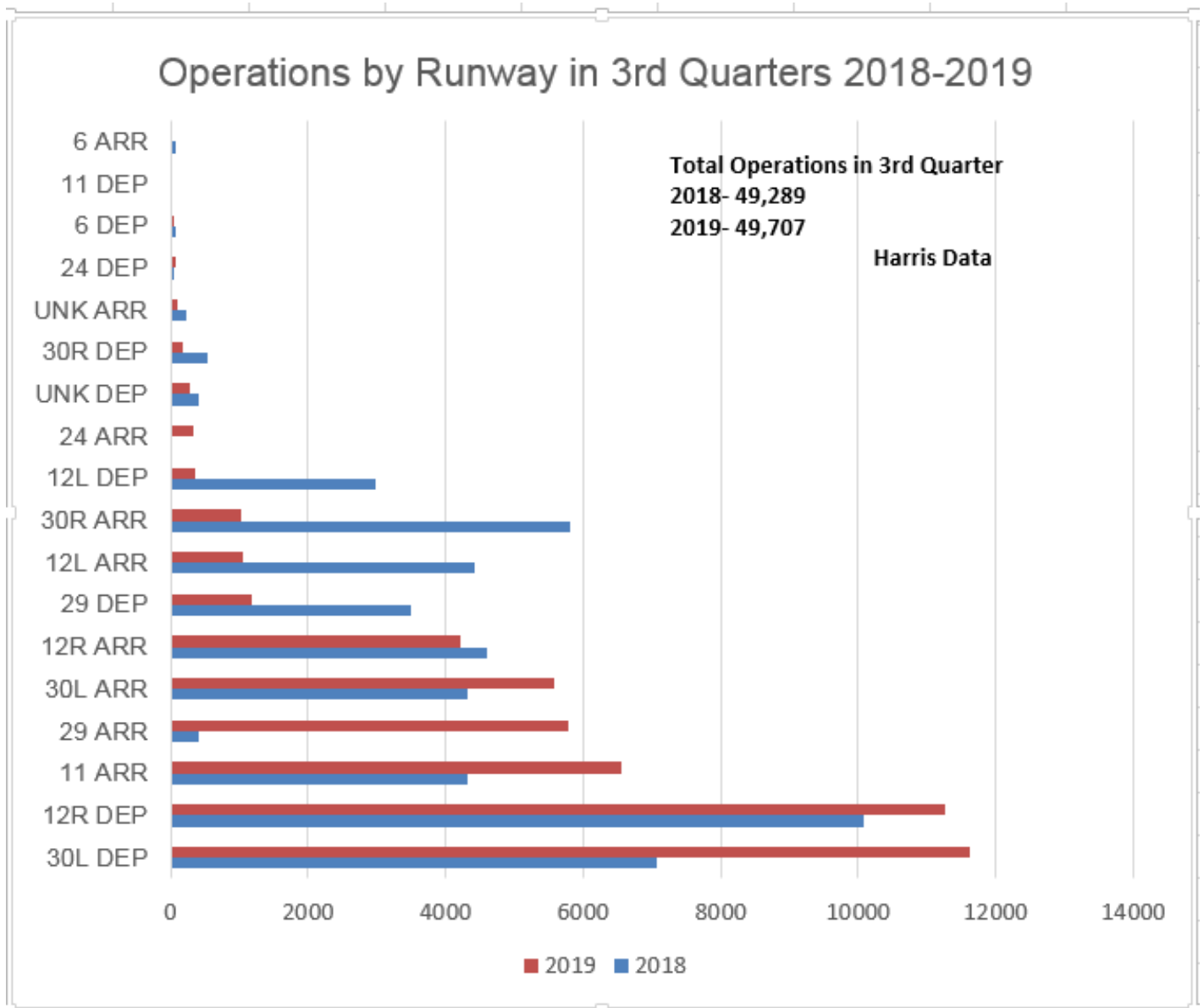


- Benedetta  
Bridgeton  
**Site 1**
- Ferguson Lane,  
Bridgeton  
Athletic  
**Site 3**
- Villa Rosa  
Auriesville  
Hazelwood  
**Site 5**
- Belfore  
Loganberry  
Bel-Ridge  
**Site 7**
- Emerling  
Cool Valley  
**Site 8**
- North Hills  
Country Club  
Pasadena Pk  
**Site 11**
- Bellwood  
Kirkland  
Normandy  
**Site 12**
- North Hills  
Brotherton  
Ferguson  
**Site 13**

**OPERATIONS BY RUNWAY**

There were 49,707 operations in the 3rd Quarter 2019 compared to 49,289 operations in 3rd Quarter 2018, an increase of +0.1% according to Harris data\*. The Airport closed Runway 12R/30L for most of the 3rd Quarter for runway reconstruction. Harris data reported that 46.4% of all departures at STL used Runway 12R/30L in the 3rd Quarter 2019 up from the 35.2% in the 3rd Quarter of 2018. For arrivals, Runway 11/29 had 25.0% of the arrivals in 3rd Quarter 2019 as compared to 3rd Quarter 2018 (9.7%). In the 3rd Quarter of 2019, there were 49,303 (99.2%) operations in which the runway was identified and 404 operations (0.8%) where the runways were not identified.

\*The Harris Airport Noise and Operation Management System (ANOMS) collects FAA air traffic data from the National Airspace System (NAS) and permanent noise monitoring data and correlates flight tracks, noise monitoring events and noise complaints. The ANOMS provides illustrative trends and should not be construed as official traffic counts.

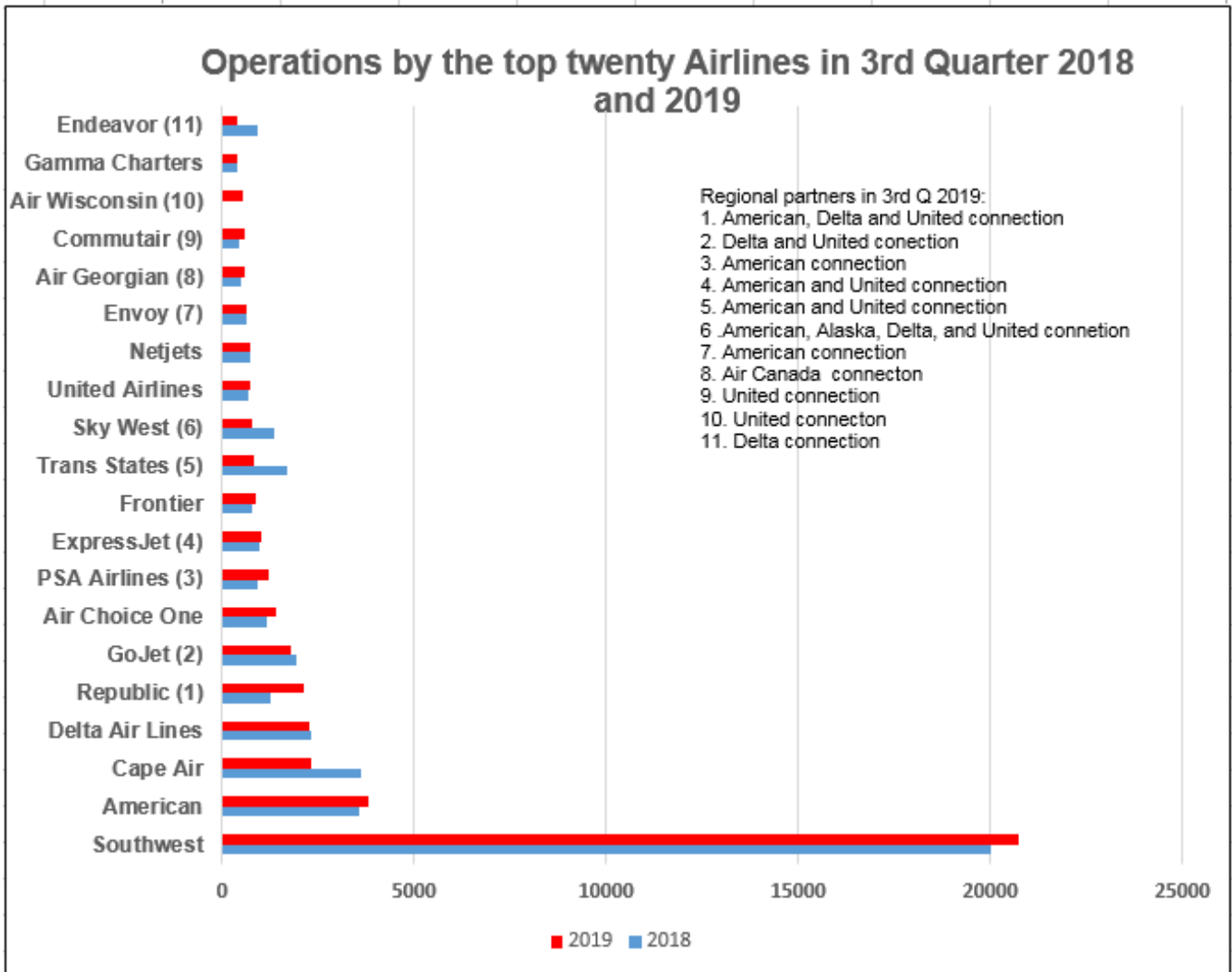


**OPERATIONS BY AIRLINE**

The top twenty airlines in the 3rd Quarter of 2019 including major carriers, regional carriers, and general aviation business jet aircraft accounted for 86% of all operations. Shown in the chart below are the top 16 Part 121 airlines, two Part 135 airlines (Cape Air and Air Choice One), and the top two general aviation business charter jets (Gamma Charters and Netjets Aviation) for the 3rd Quarter of 2019. The 2019 3rd Quarter top twenty includes eleven regional commercial passenger jet airlines. Regional carriers accounted for 22.4% of the operations in the 3rd Quarter of 2019 and 22.5% in 2018. Southwest and Frontier at St. Louis Lambert Airport are the only major airlines that are not partnered with the regional airlines.

There were 69 Part 121 and Part 135 airlines that utilized St. Louis Lambert International Airport during this period. Part 121 airlines are commercial scheduled airlines with more than 30 seats and Part 135 airlines are planes with less than 30 seats.

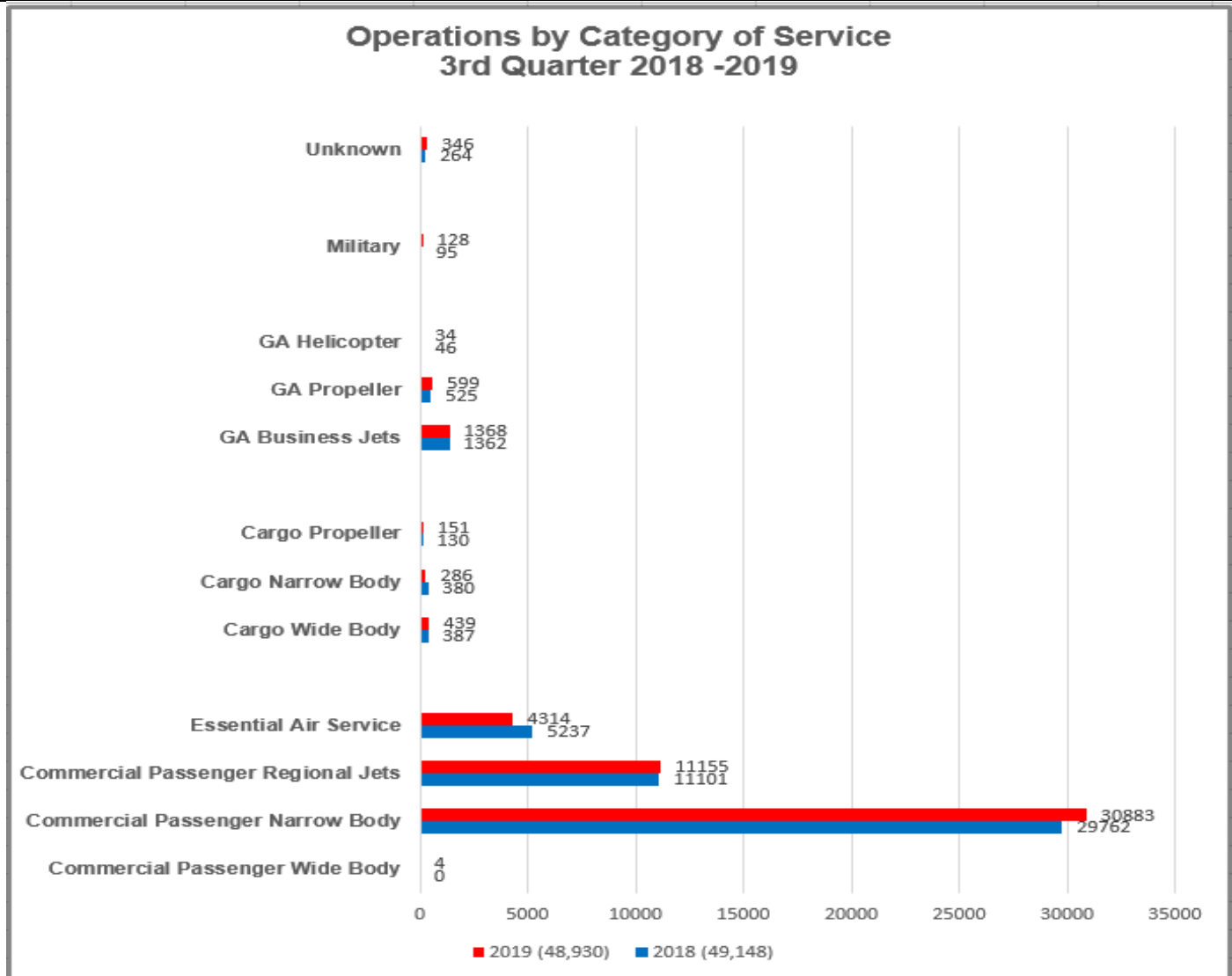
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**OPERATIONS BY CATEGORY OF SERVICE**

In the 3rd Quarter 2019, commercial passenger regional jets were up +0.5% from 3rd Quarter 2018. Essential Air Service decreased -21.4% in the 3rd Quarter 2019. In January 2019, staff began including charter operations with the scheduled commercial narrow body operations. Staff has revisited the 3rd Quarter of 2018 to make similar adjustments for comparison purposes. In the 3rd Quarter 2019, commercial narrow body operations were up +3.8% and there was only a difference of +6 operations in 2019 for business jet operations (minus charters) in the 3rd Quarters of 2018 and 2019. Military operations are filtered so most operations are not reported. Overall, operations in the 3rd Quarter 2019, as reported in the Harris data\* were up +0.8% from 2018.

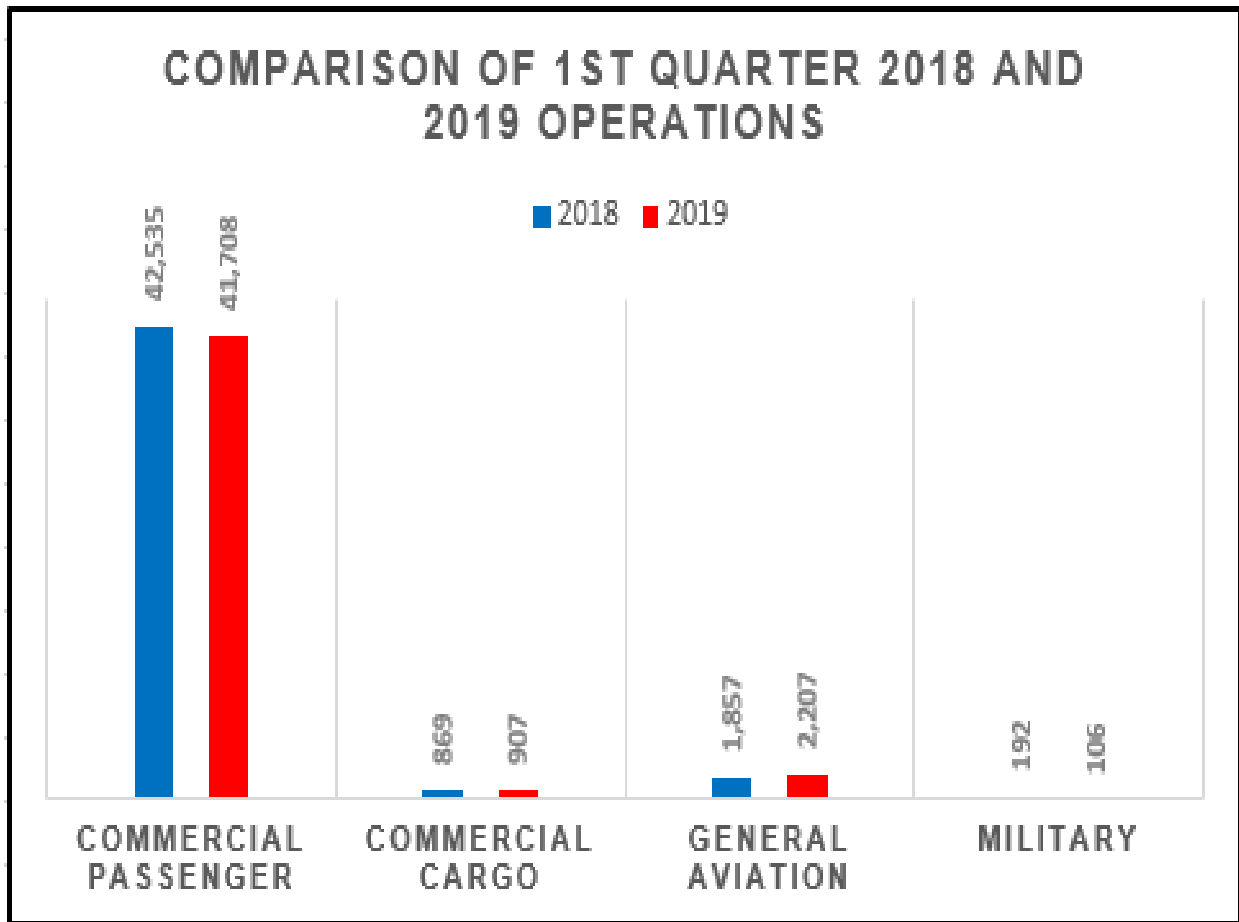
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**OPERATIONS BY TYPE OF SERVICE**

Commercial Passenger, Commercial Cargo, General Aviation, and Military are the four categories of operations. The Harris data\* also includes unknown operations category for aircraft that were not identified by either the airline or aircraft equipment type, or both. The 3rd Quarter of 2019 showed commercial passenger operations at 92.3% compared to 93.2% for the same period in 2018. Harris reported that the general aviation category which includes business jets, propeller and helicopter operations, had 4.1% of reported operations in 2019 compared to 3.9% in 2018. In 2019 and 2018, commercial cargo were reported at 1.8% of all operations in both quarters. Military operations were 0.3% of all operations in 2019, however, military operations are filtered and not all military operations are reported in the data.

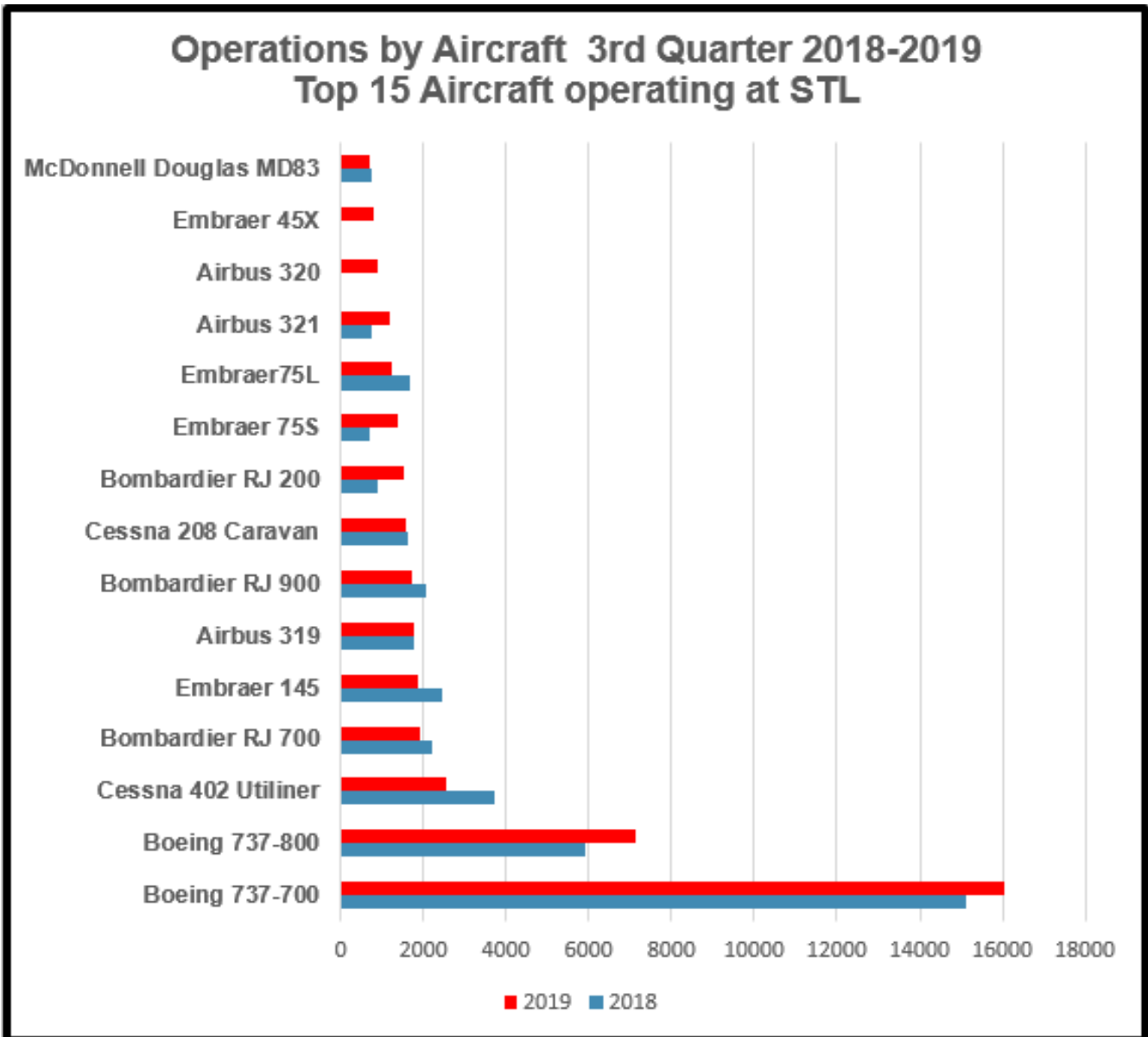
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**OPERATIONS BY AIRCRAFT**

Shown below are top fifteen aircraft operating at St. Louis Lambert Airport in the 3rd Quarter of 2019. In the 3rd Quarter of 2019, the Boeing 737-700 (16,047 operations) increased by 5.0% and the Boeing 737-800 increased by 1,222 operations (+20.6%) from the same period in 2018. Moving into the top 15 aircraft at the Airport were the Airbus 320 (892 operations) and the Embraer 45X (812 operations). Five of the top ten aircraft at the Airport are operated by regional carriers. There were 177 different types of aircraft that landed at St. Louis Lambert International Airport during this period according to Harris data\*.

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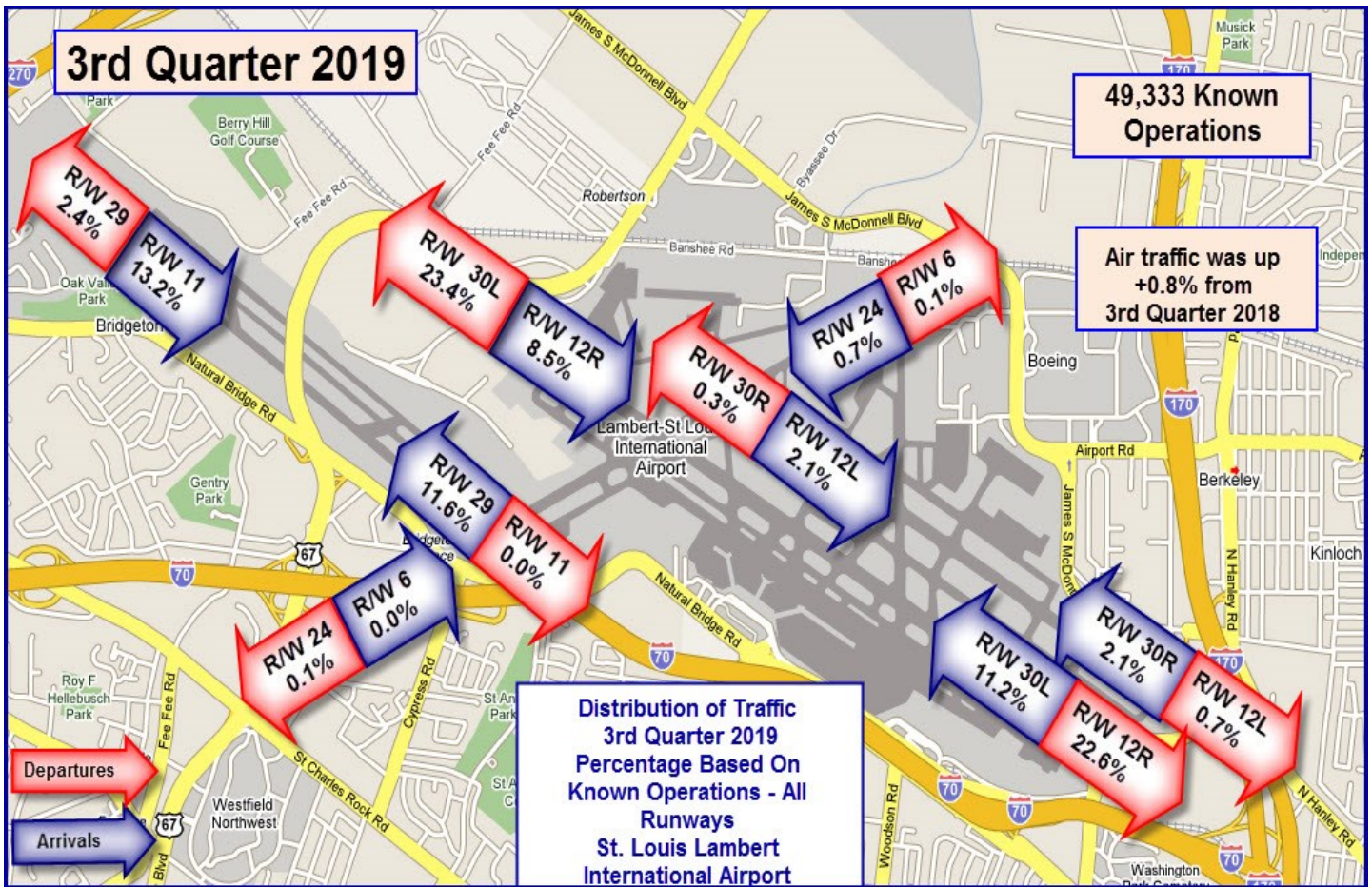




**DISTRIBUTION OF TRAFFIC**

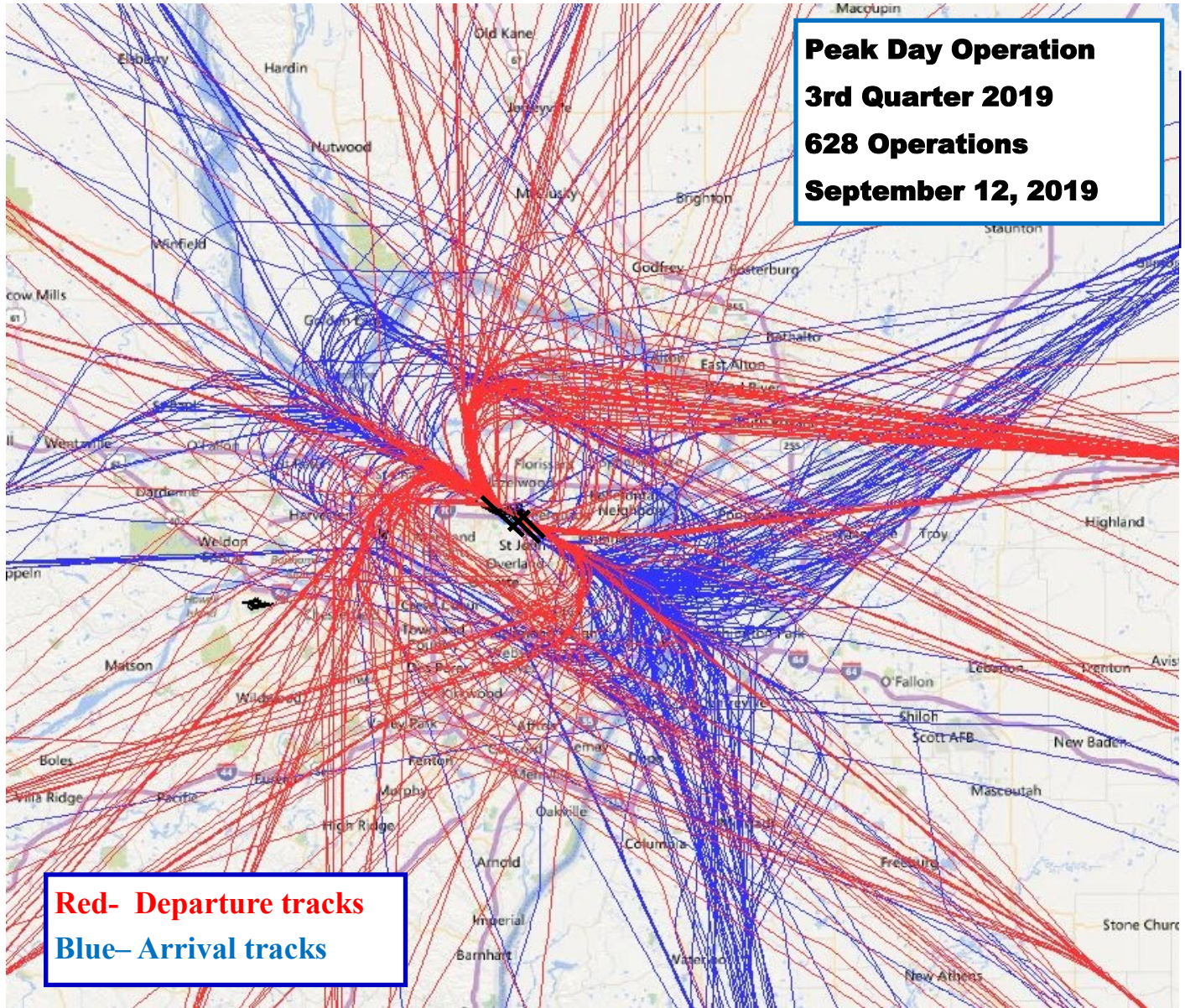
There were 49,707 operations recorded in 3rd Quarter of 2019 compared to 49,289 operations in 2018, an increase of +0.8%. The chart below shows the total percentages of use for known runways for this period. The most utilized runway for departures was Runway 30L (23.4%). The most utilized runway for arrivals was Runway 11 (13.2%). During the 3rd Quarter of 2019, the Airport closed Runway 12L/30R for three months to reconstruct the runway. As a result the FAA ATCT used the other two primary runways for arrivals and departures. The crosswind runway 6-24 was the least used runway for this period. The Distribution of Traffic (Eastbound vs. Westbound ) for the 3rd Quarter of 2019 was 47.3% eastbound and 52.7% westbound operations.

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3rd Quarter 2019  
Peak Day Operation

**Peak Day Operation**  
**3rd Quarter 2019**  
**628 Operations**  
**September 12, 2019**



**Airport Noise Management Office**  
Airport Planning & Development  
St. Louis Lambert International Airport®  
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Publication of St. Louis Lambert International Airport Noise Management Office