



ST. LOUIS LAMBERT  
INTERNATIONAL AIRPORT.

# **CY2021 NOISE MANAGEMENT AND AIRLINE TRAFFIC REPORT**





# STL Airport Noise Management Report CY 2021

The Airport Noise Management Report provides the CY 2021 summary of St. Louis Lambert International Airport's operations and noise complaints. The data in this report is from L3Harris, Inc. and not from FAA Air Traffic. This report is illustrative of trends and distribution and should not be construed as official traffic counts.

**CY 2021**

## NOISE COMPLAINTS

There were 17 noise complaints received in the CY 2021 compared to the 38 noise complaints in CY 2020. The noise complaints were from nine communities. Residents complained about loud, low, and frequent aircraft over their homes. There were complaints about military departures during the early morning hours, and touch and go operations by Boeing during the day. Residents to the west of the Airport in St. Charles and Bridgeton complained about pre-dawn cargo arrivals interrupting sleep. Some complainants voiced concerns over the noise from aircraft overhead while they worked from home or participated on zoom meetings. There were three complaints about night-time operations designated as the hours of 10p.m. to 7a.m. and 14 were about day-time operations (7 a.m. to 10 p.m.). Landings and takeoffs (operations) during the day time hours accounted for 86.9 percent of the operations while 13.1 percent of the operations occurred during the night time period. Some complainants could not tell the time of the noise occurrence. The chart below shows number of complaints by zip code. Not all complainant zip codes are shown on the map below because some complainants did not state where they were calling from or the their location is outside of the map boundaries below.



Qtr.	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls
1st	63044	2	63074	2	63105	2	63134	2	UNK	1	-	-	-	-	-	-	-	-	-	-
2nd	63005	4	63021	1	63114	1	63130	1	63134	2	63135	1	63303	1	-	-	-	-	-	-
3rd	63044	1	63043	1	63042	1	63303	2	-	-	-	-	-	-	-	-	-	-	-	-
4th	63104	1	63114	1	63131	1	63135	2	63303	3	63304	1	63301	2	-	-	-	-	-	-

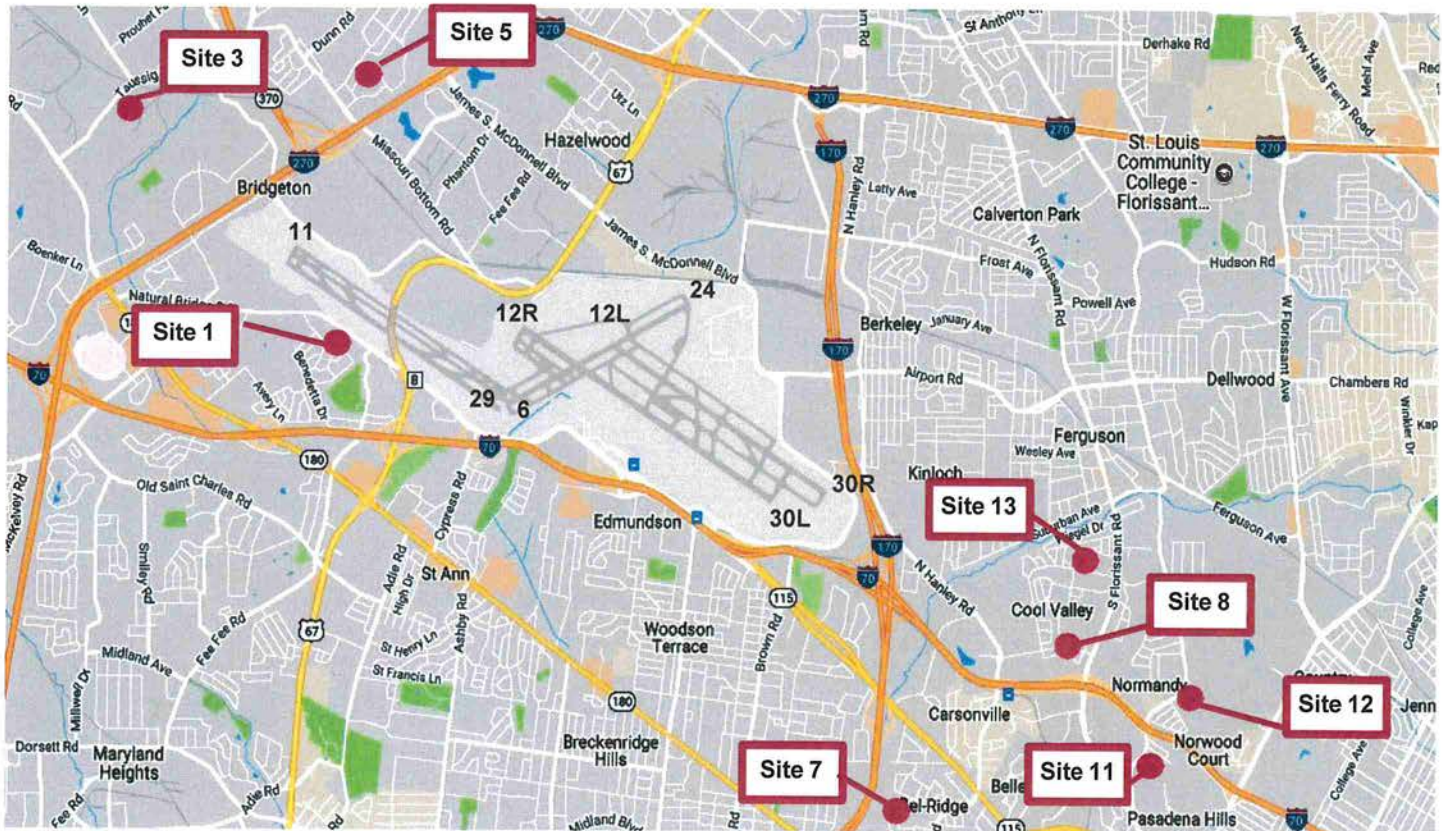


## STL CY 2021 Noise and Airline Traffic Report

### RUNWAY IDENTIFICATION

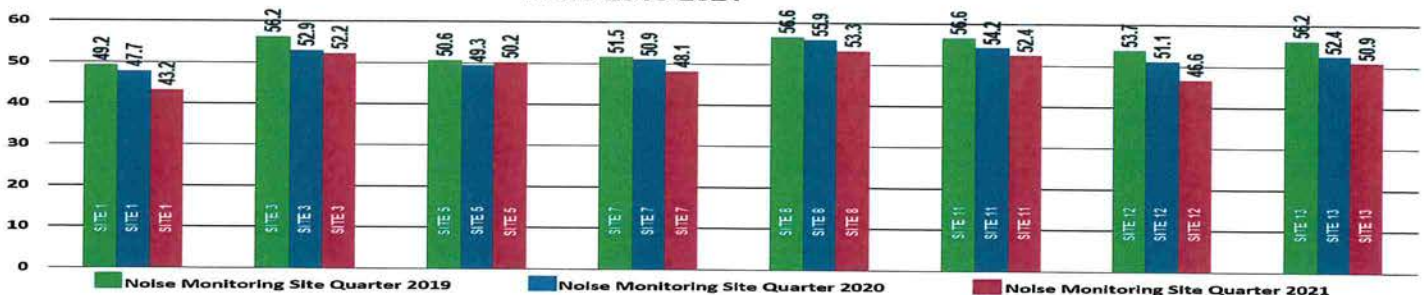
The runways at St. Louis Lambert International Airport are: 12R/30L (11,020'x200'), 12L/30R (9,013'x150'), 11/29 (9,000'x150'), and 6/24 (7,603'x150').

### 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.

**Noise Monitoring Data  
2021 Average DNL (Day/Night/Level)  
Years 2019-2021**



Benedetta  
Bridgeton  
Site 1

Ferguson Lane,  
Bridgeton  
Athletic  
Site 3

Villa Rosa  
Auriersville  
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



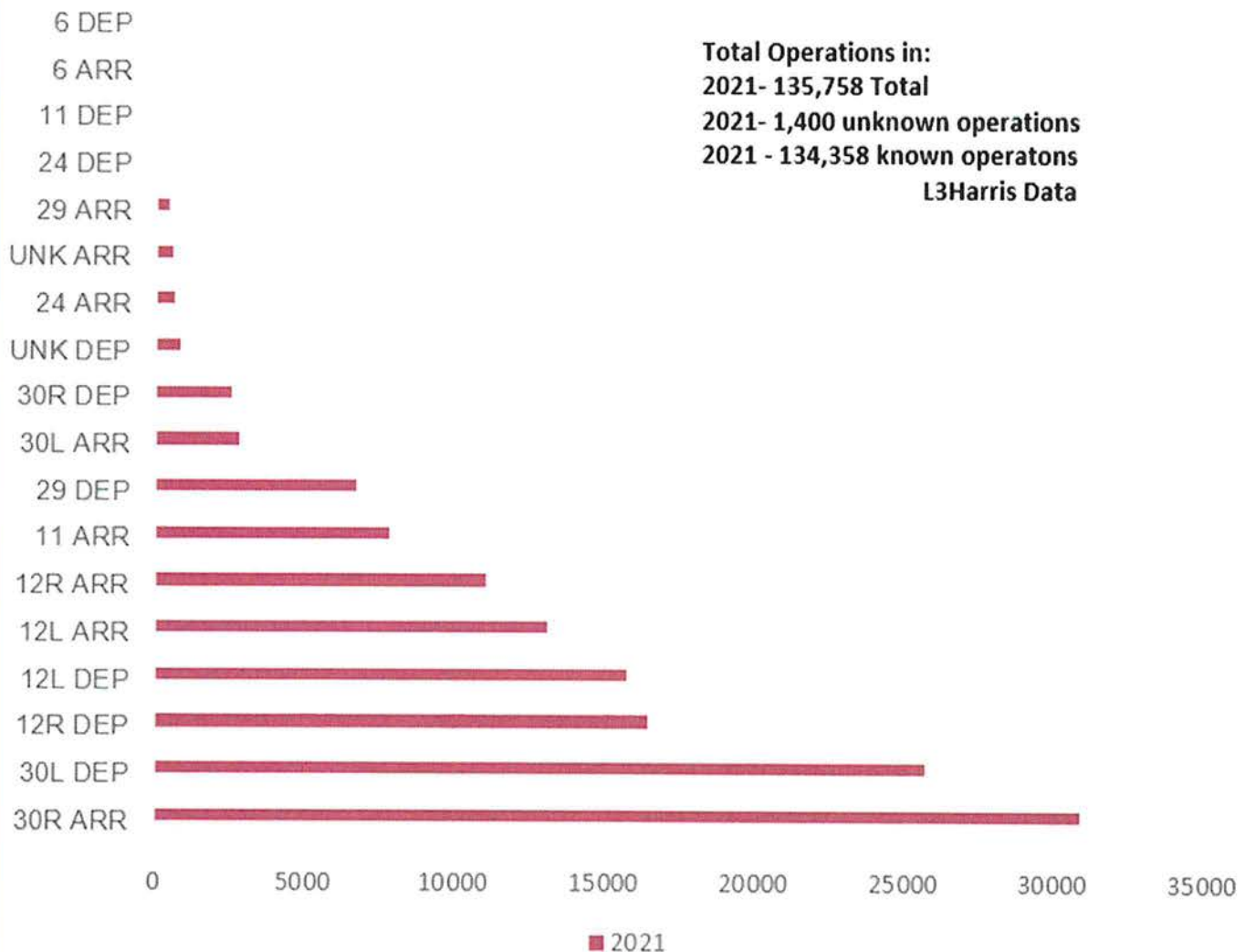
## STL CY2021 Noise and Airline Traffic Report

### OPERATIONS BY RUNWAY

There were 135,758 operations in CY 2021 compared to 124,246 operations in CY 2020, an increase of 9.3 percent according to L3Harris data\*. The 135,758 number includes unknown operations where the runway was not identified. The unknown operations are not included when calculating the runway percentages. Runway 30R was the most used runway for known arrivals at 23.0 percent (30,929) followed by Runway 12L at 9.8 percent (13,100). For known departures, Runway 30L had 19.2 percent (25,735) followed by Runway 12L at 11.7 percent (15,742). In the 2021, there were 134,358 (99.0 percent) operations in which the runway was identified (known) and 1,400 operations (1.0 percent) where the runways were not identified (unknown).

\*The L3Harris 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.

### Yearly Operations by Runway in 2021





## STL 2021 Noise and Airline Traffic Report

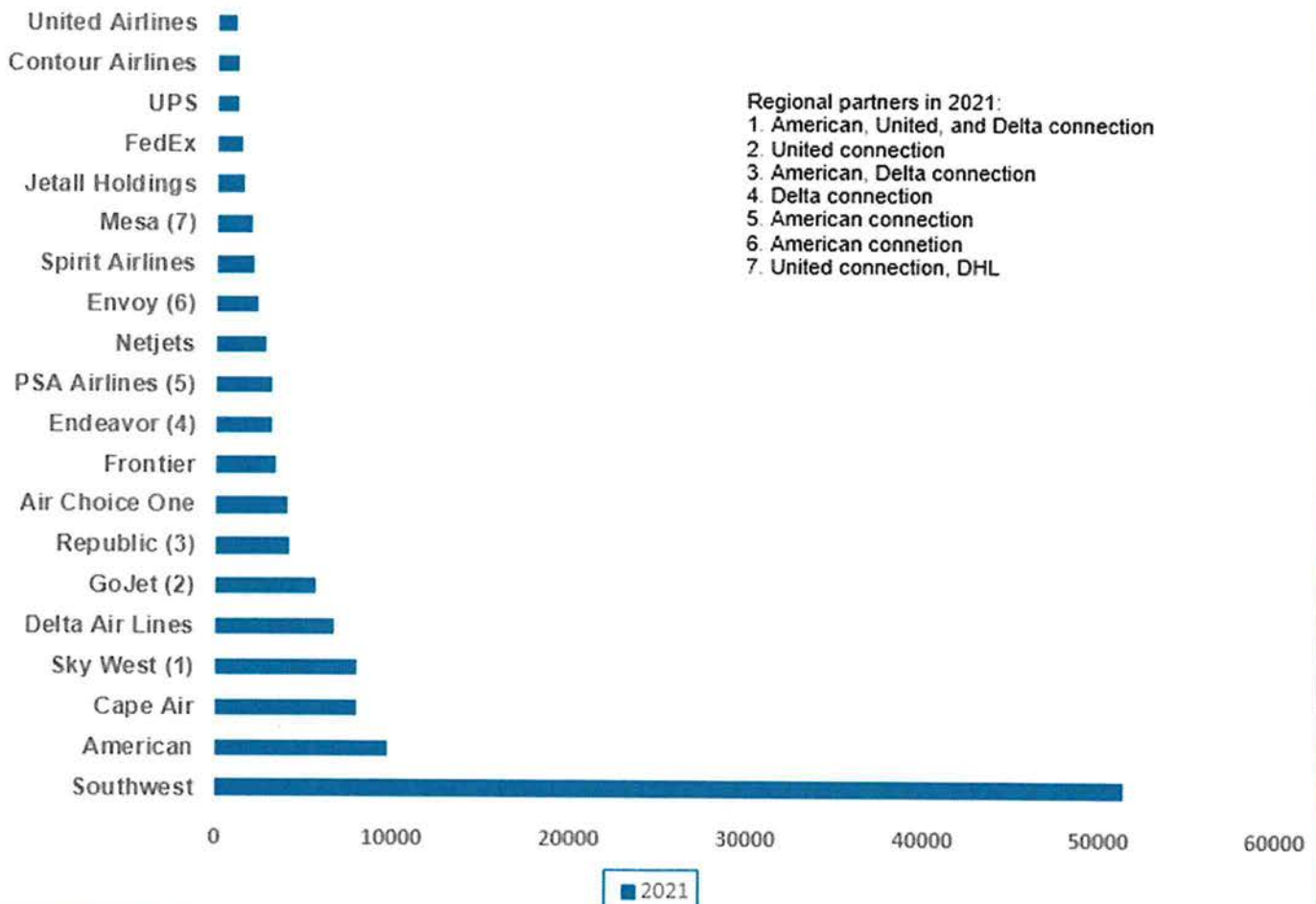
### OPERATIONS BY AIRLINE

The top twenty airlines in 2021 including major carriers, regional carriers, and general aviation business jet aircraft accounted for 89.6 percent of all operations. Shown in the chart below are the top 20 airlines including twelve Part 121 commercial airlines, three EAS airlines (Cape Air, Air Choice One, and Contour), two general aviation business charter jets (Jetall and Netjets Aviation), and three cargo airlines (UPS, DHL and FedEx). One carrier, Mesa Airlines, serves as a United connection and also contracts with DHL, a cargo operator. Contour Airlines discontinued service to STL in December 2021. Spirit and United Airlines broke into the top 20 for CY 2021. The 2021 group includes nine regional commercial passenger jet airlines. Regional carriers accounted for 20.6 percent of the operations in 2021. Southwest, Spirit, and Frontier are the only major airlines that are not partnered with the regional airlines at St. Louis Lambert International Airport.

There were 79 Part 121 and Part 135 airlines that utilized the Airport during this period. Part 121 airlines are commercial airlines with more than 30 seats and Part 135 airlines are planes with less than 30 seats.

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#### Operations by the top twenty Airlines in 2021





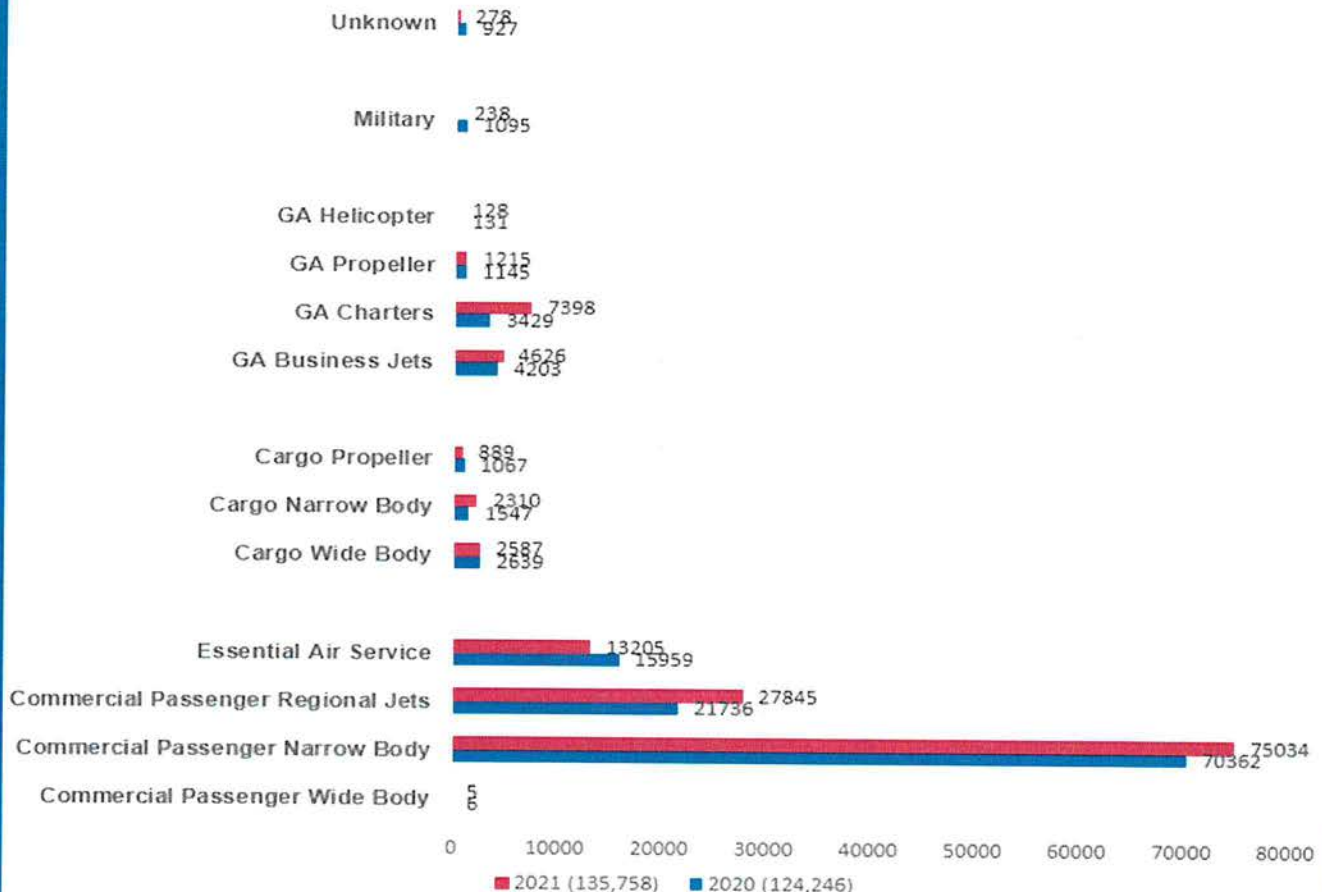
## STL CY 2021 Noise and Airline Traffic Report

### OPERATIONS BY CATEGORY OF SERVICE

Most of the categories of service showed an increase in operations from CY2020 to CY 2021. Essential Air Service (-1.7 percent), cargo wide body (-2.0 percent), cargo propeller (-16.7 percent), and military (-78.3 percent) showed decreases in 2021. Commercial cargo which saw an increase of 29.4 percent in 2020 (5,253) from the previous year (2019) continued to show an increase of 10.1 percent in 2021. Online shopping and package delivery remained strong in 2021 as people became accustomed to the ease of products delivered to their doorstep. Online shopping grew by 20 percent nationally and according to Retail Insider it will increase by 2 times through 2025. In Military reporting has been declining because of FAA filtering. Commercial narrow body operations were up 6.6 percent because of vaccine optimism and travelers booking flights. Charter operations are used by businesses and companies to move employees and passengers via general aviation business jets. There was an increase of 115.7 percent in charter operations reported by L3Harris in 2021 (7,398) from 2020 (3,429). Overall, total operations in 2021, as reported in the L3Harris data\* were up 9.3 percent from 2020.

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#### Operations by Category of Service 2021 and 2020



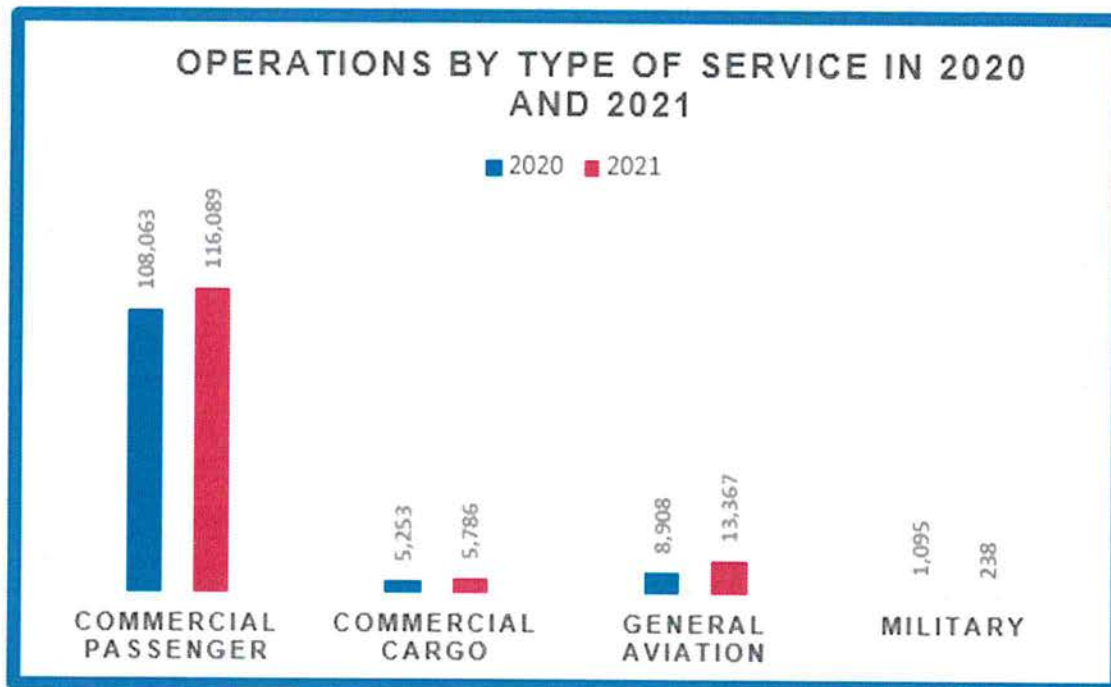


## STL CY2021 Noise and Airline Traffic Report

### OPERATIONS BY TYPE OF SERVICE

Commercial Passenger, Commercial Cargo, General Aviation, and Military are the four categories of operations. The L3Harris data\* also includes an unknown operations category for aircraft that were not identified by either the airline or aircraft equipment type, or both. Since the unknowns cannot be assigned to any particular category, the unknowns are not included in the calculations. Commercial passenger operations accounted for 85.5 percent of the total operations in 2021 as compared to 87.0 percent of the operations in 2020. L3Harris data reported the general aviation category, which includes business jets, propeller and helicopter operations, at 9.9 percent of reported operations in 2021 compared to 7.2 percent in 2020. In 2021, commercial cargo remained unchanged from 2020 at 4.3 percent of all operations. Military operations were 0.2 percent of all operations in 2021, however, not all military operations are reported in the data. In 2021, the FAA began filtering more military operations than in previous years.

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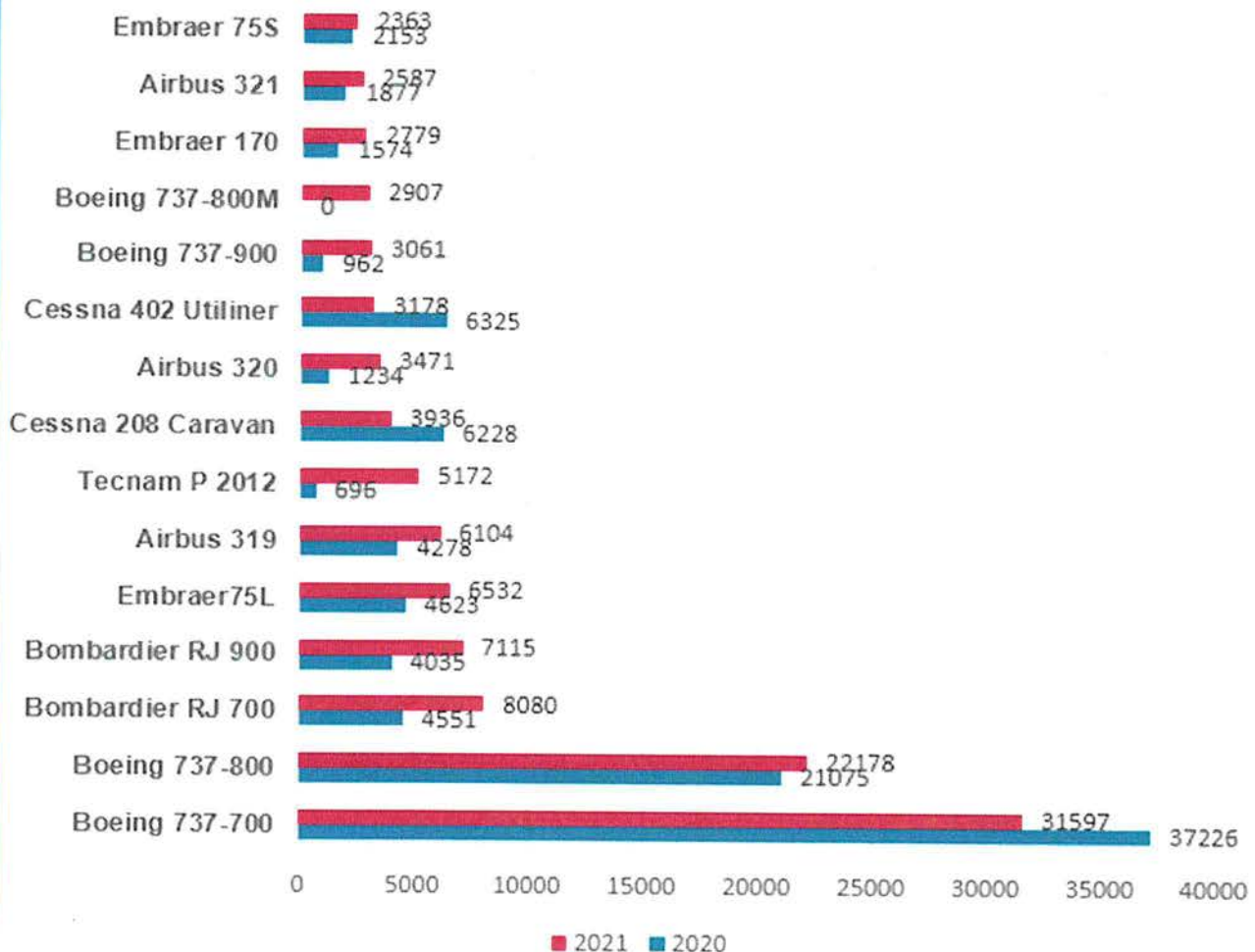
## STL CY2021 Noise and Airline Traffic Report

### OPERATIONS BY AIRCRAFT

Shown below are top fifteen aircraft operating at St. Louis Lambert Airport in 2021. In 2021, the Boeing 737-700 (31,597 operations) decreased by 15.1 percent and the Boeing 737-800 increased by 5.2 percent from the same period in 2020. Commercial passenger service was up 7.4 percent from 2020. Moving into the top 15 aircraft at the Airport in 2021 was the Tecnam P 2012 aircraft used by Cape Air and the Boeing 737-800M used by Southwest and American Airlines. The Boeing 737-800M returned to service in 2021 after being grounded for two years. Five of the top fifteen aircraft at the Airport are operated by regional carriers. There were 231 known aircraft types that landed at St. Louis Lambert International Airport during this period according to Harris data\*.

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#### Operations by Aircraft 2020-2021 Top 15 Aircraft operating at STL



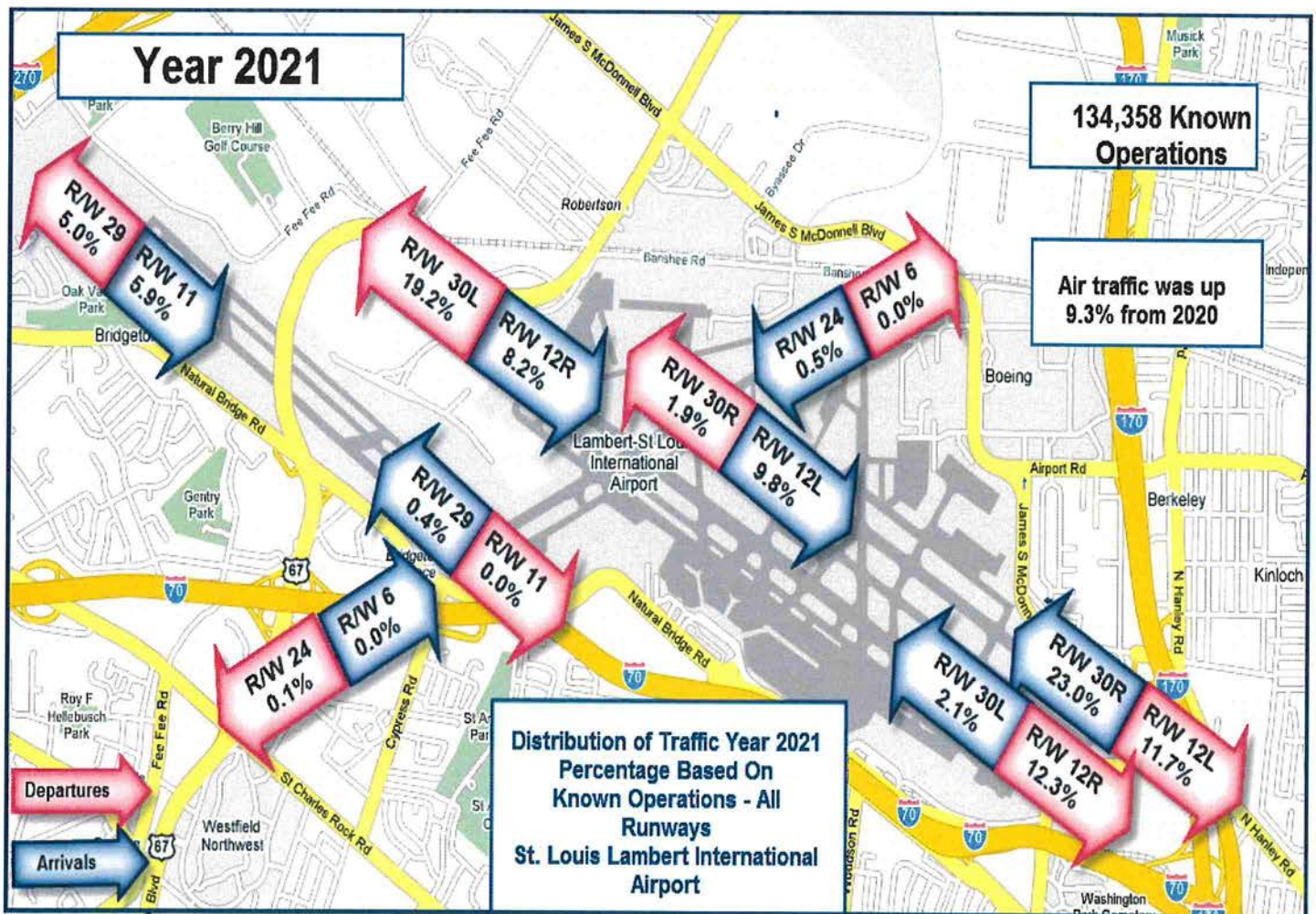


## STL CY2021 Noise and Airline Traffic Report

### DISTRIBUTION OF TRAFFIC

There were 135,758 operations recorded in CY 2021 compared to 124,246 operations in CY 2020, an increase of 9.3 percent. The chart below shows the total percentages of use for known runways for this period. The most utilized runway for known departures was Runway 12R (12.3 percent). The most utilized runway for known arrivals was Runway 30R (23.0 percent). The crosswind runway 6-24 was the least used runway for this period. The Distribution of Traffic (Eastbound vs. Westbound ) for 2021 was 47.9. percent eastbound and 52.1 percent westbound operations.

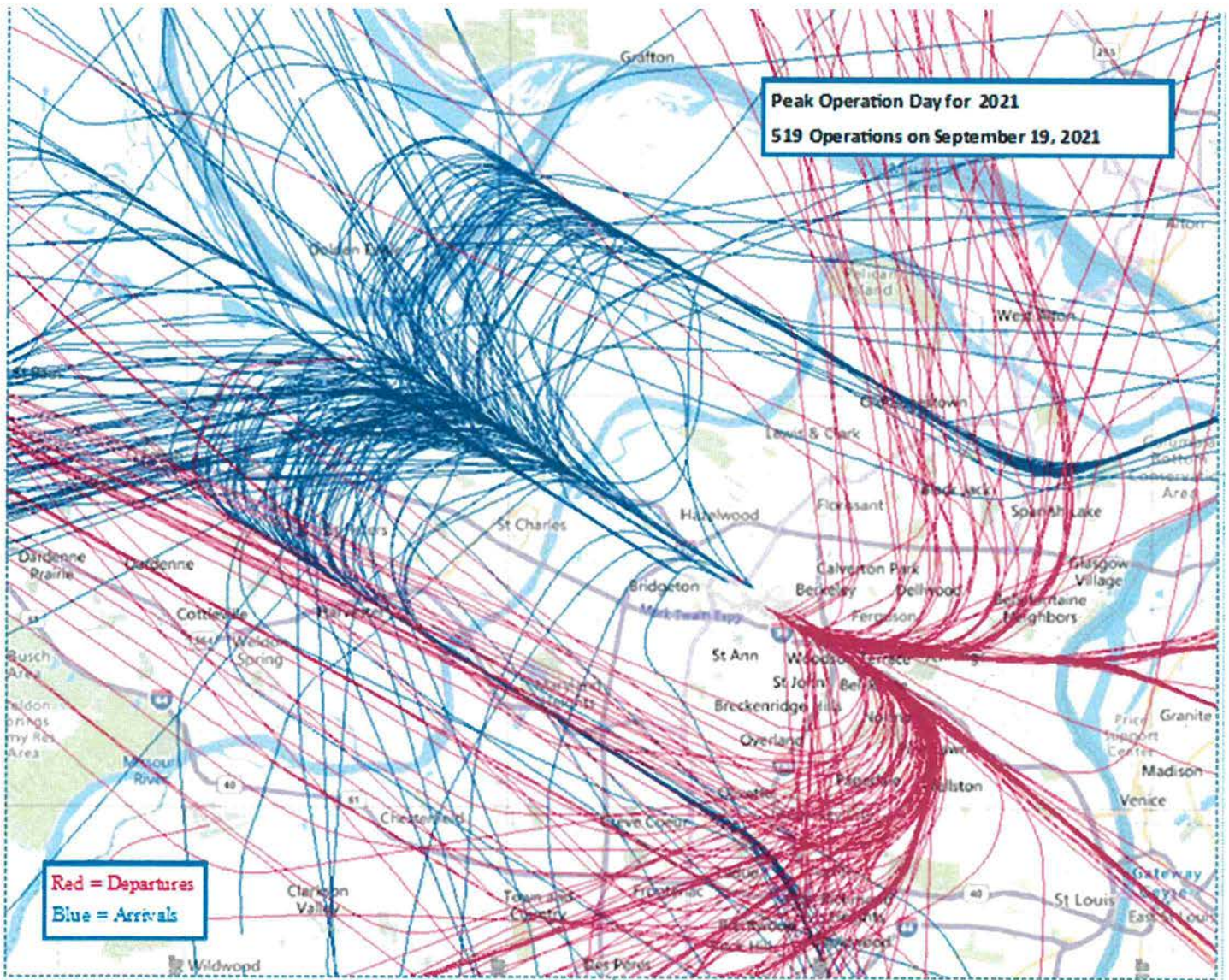
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## STL CY2021 Noise and Airline Traffic Report

### CY 2021 Peak Day Operation



**ST. LOUIS LAMBERT  
INTERNATIONAL AIRPORT.**

**Airport Noise Management Office**  
Airport Planning & Development  
St. Louis Lambert International Airport®  
P.O. Box 10212  
St. Louis, MO 63145

**Noise Complaint Hot Line (314) 551-5070 — [noisehotline@flystl.com](mailto:noisehotline@flystl.com) — Fax: (314) 551-5013**

Publication of St. Louis Lambert International Airport Noise Management Office



# STL Airport Noise Management Report 1st Q 2021

The Airport Noise Management Report provides the 1st Quarter 2021 summary of St. Louis Lambert International Airport's operations and noise complaints. The data in this report is from L3Harris, Inc. and not from FAA Air Traffic. This report is illustrative of trends and distribution and should not be construed as official traffic counts.

## 1ST QUARTER 2021

### NOISE COMPLAINTS

There were five noise complaints received in the 1st Quarter of 2021 compared to the nine noise complaints in the 1st Quarter of 2020. The noise complaints were from three communities, and one unknown community. Residents complained about loud low, and frequent aircraft over their homes, and subdivisions. There were complaints about departures during the early morning hours and the disruption of services. A resident to the west of the Airport in St. Charles complained about pre-dawn cargo arrivals interrupting sleep. Three complaints were about day time (7 a.m. to 10 p.m.) and one complaint was about night time hours (10 pm to 7 am). One complainant did not leave their name, location or complaint time of day. Landings and take-offs (operations) during the day time hours accounted for 88.8 percent of the operations while 11.2 percent 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 shown on the map below because some complainants did not state where they were calling from or the their location is outside of the map boundaries below.



Qtr.	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls
1st	63134	2	63135	1	63303	1	UKN	1	-	-	-	-	-	-	-	-	-	-	-	-
2nd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3rd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4th	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## STL 1st Quarter 2021 Noise and Airline Traffic Report

### RUNWAY IDENTIFICATION

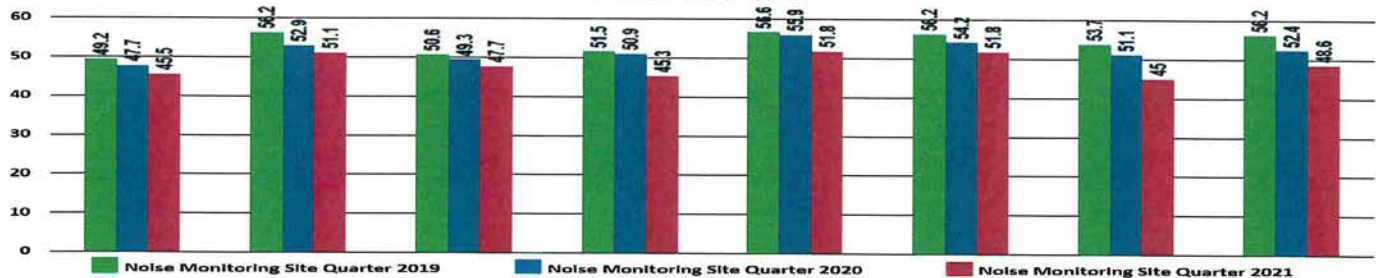
The runways at St. Louis Lambert International Airport are: 12R/30L (11,019'x200'), 12L/30R (9,003'x150'), 11/29 (9,001'x150'), and 6/24 (7,607'x150').

### 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.

**Noise Monitoring Data**  
1st Quarter 2021 Average DNL (Day/Night/Level)  
Years 2019-2021



Benedetta  
Bridgeton  
**Site 1**

Ferguson Lane,  
Bridgeton  
Athletic  
**Site 3**

Villa Rosa  
Auriville  
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**



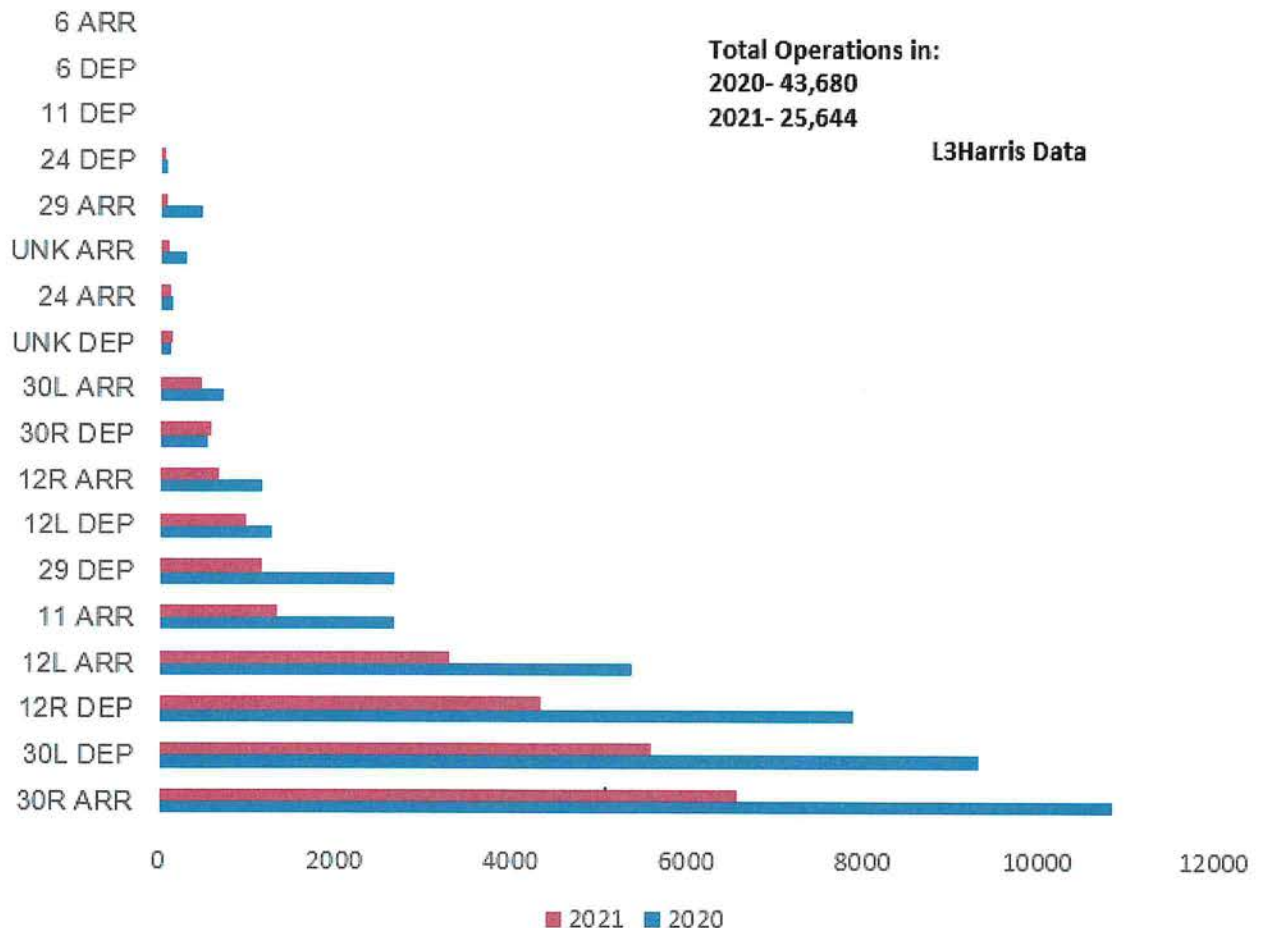
## STL 1st Quarter 2021 Noise and Airline Traffic Report

### OPERATIONS BY RUNWAY

There were 25,644 operations in the 1st Quarter of 2021 compared to 43,680 operations in the 1st Quarter of 2020, a decrease of -41.3 percent according to L3Harris data\*. Runway 30R was the most used runway for arrivals at 25.7 percent (6,578) followed by Runway 12L at 12.8 percent (3,292). For departures, Runway 30L had 21.8 percent (5,602) followed by Runway 12R at 16.9 percent (3,292). In the 2021, there were 25,377 (98.9 percent) operations in which the runway was identified and 267 operations (1.1 percent) where the runways were not identified.

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### 1st Quarter Operations by Runway in 2020 and 2021



## STL 1st Quarter 2021 Noise and Airline Traffic Report

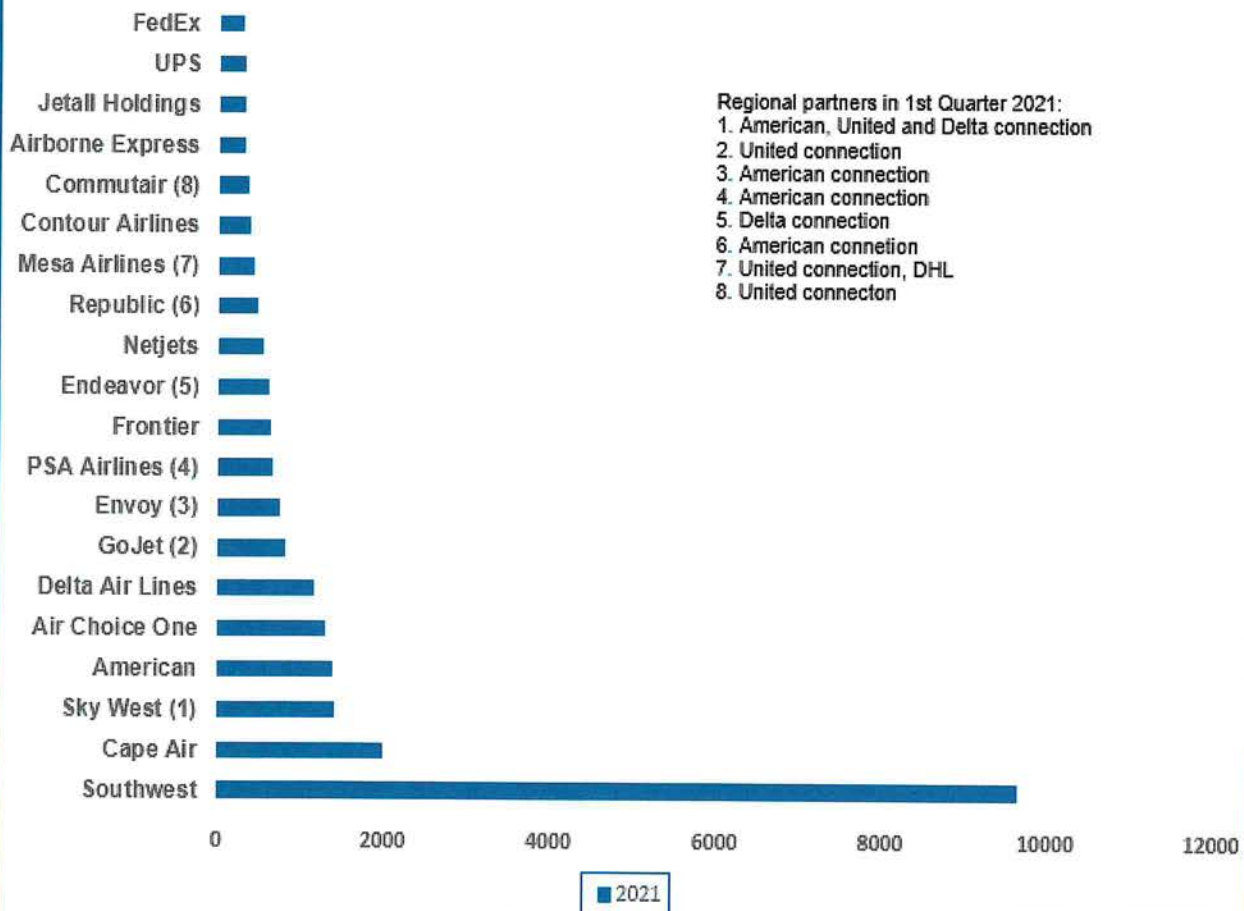
### OPERATIONS BY AIRLINE

The top twenty airlines in the 1st Quarter 2021 including major carriers, regional carriers, and general aviation business jet aircraft accounted for 91.5 percent of all operations. Shown in the chart below are the top 11 Part 121 commercial airlines, three Part 135 airlines (Cape Air, Air Choice One and Contour Airlines), two general aviation business charter jets (Jetall Holdings and Netjets Aviation), and four cargo airlines (UPS, FedEx, Airborne Express, and DHL/Mesa) for the 1st Quarter 2021. The 1st Quarter 2021 group includes eight regional commercial passenger jet airlines. Regional carriers accounted for 14.6 percent of the operations in 2020. Mesa Airlines was under contract with United Air Lines for passenger service and Amazon Prime for cargo service. Southwest and Frontier are the only major airlines that are not partnered with the regional airlines at St. Louis Lambert International Airport.

There were 45 Part 121 and Part 135 airlines that utilized the Airport during this period. Part 121 airlines are commercial airlines with more than 30 seats and Part 135 airlines are planes with less than 30 seats.

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#### Operations by the top twenty Airlines in 1st Quarter 2021





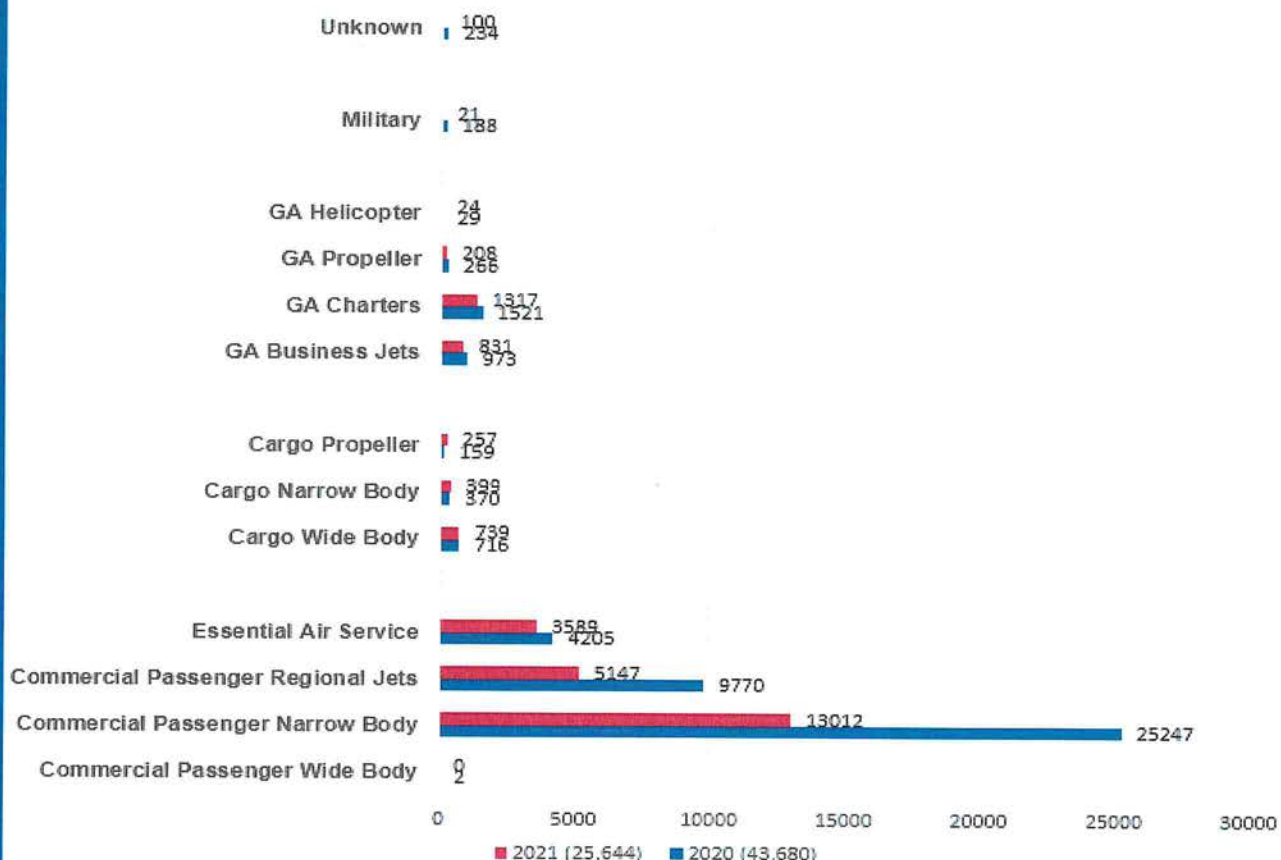
## STL 1st Quarter 2021 Noise and Airline Traffic Report

### OPERATIONS BY CATEGORY OF SERVICE

Looking at the 1st Quarter of 2021 there was a significant decrease in operations from 1st Quarter 2020. Air travel in the 1st Quarter of 2021 has yet to rebound from the effects of the pandemic, although there may be promising signs of growth in the summer and fall due to more people getting vaccinated and the pent up demand to vacation. Essential Air Service decreased 14.6 percent in the 1st Quarter 2021 from the same period in 2020. Commercial narrow body operations were down 48.5 percent with commercial operations starting to fall in March and continuing to slide throughout 2020 and into the 1st Quarter of 2021. Charter operations are used by businesses and companies to move employees and passengers via general aviation business jets. There was a decrease of 13.4 percent in charter operations reported by L3Harris from 1st Quarter 2020. Commercial cargo, used to move goods to warehouses for distribution, increased by 3.1 percent from 1st Quarter 2020. The Federal Aviation Administration has significantly filtered military operations. The Airport is working with L3Harris and other Airports across the country to obtain the military information. Overall, total operations in the 1st Quarter of 2021 as reported in the L3Harris data\* were down 41.3 percent from 1st Quarter 2021.

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#### Operations by Category of Service 1st Q 2020 and 2021

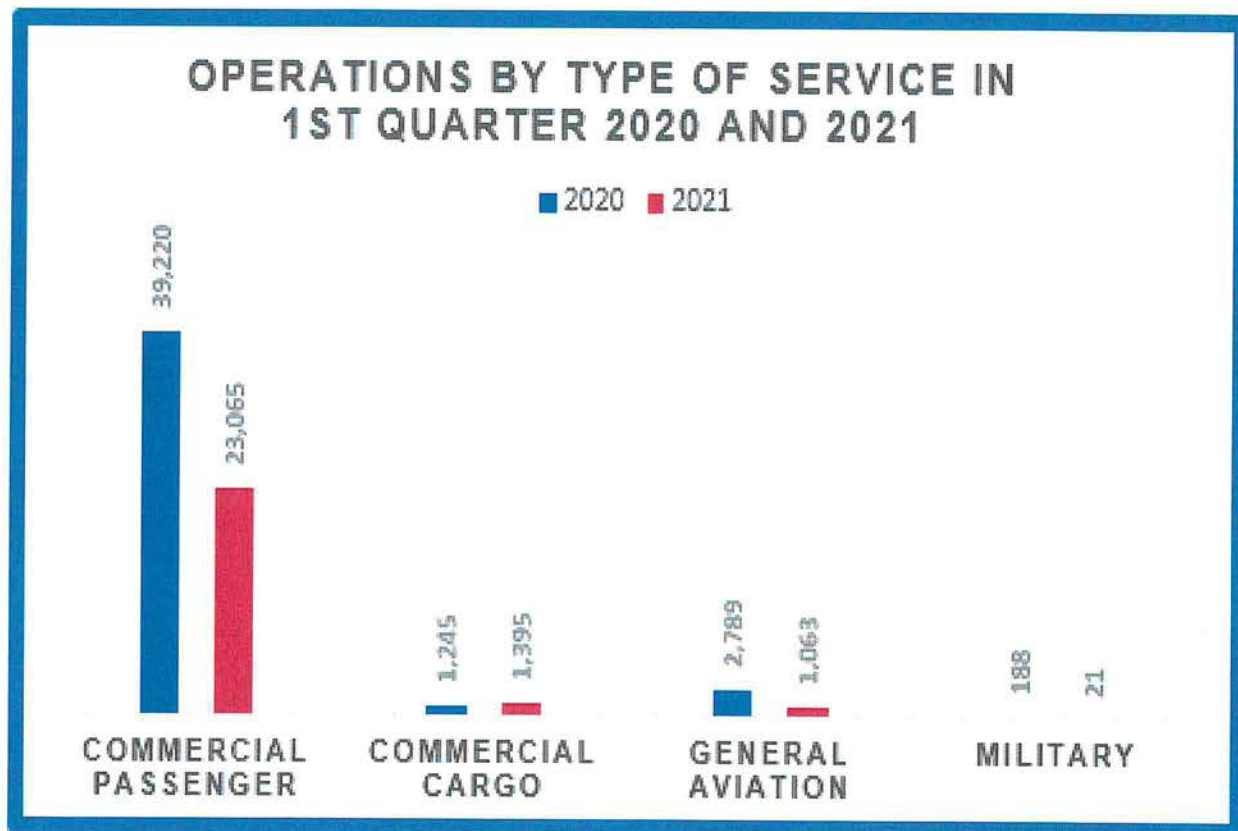


## STL 1st Quarter 2021 Noise and Airline Traffic Report

### OPERATIONS BY TYPE OF SERVICE

Commercial Passenger, Commercial Cargo, General Aviation, and Military are the four categories of operations. The L3Harris data\* also includes unknown operations category for aircraft that were not identified by either the airline or aircraft equipment type, or both. Commercial passenger operations were 89.9 percent of the total operations in 1st Quarter 2021 as compared to 89.8 percent of the operations in the 1st Quarter 2020. L3Harris data reported the general aviation category, which includes business jets, propeller and helicopter operations at 9.2 percent of reported operations as compared to 6.4 percent in 2020. In the 1st Quarter 2021, commercial cargo operations were 9.3 percent of all operations compared to 6.4 percent in 2020. Military operations are being filtered by the FAA and L3 Harris is working with the FAA to resolve the issue.

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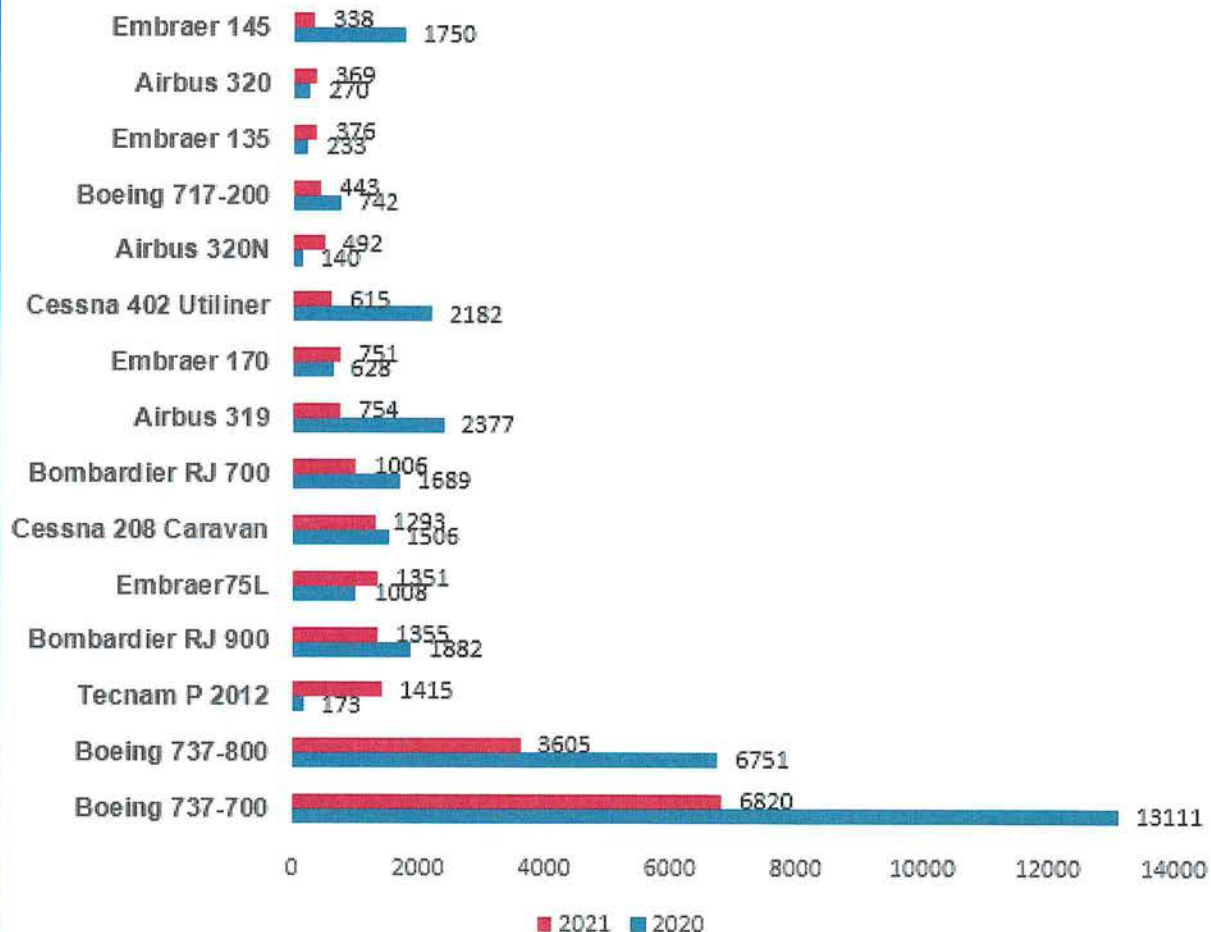
## STL 1st Quarter 2021 Noise and Airline Traffic Report

### OPERATIONS BY AIRCRAFT

Shown below are top fifteen aircraft operating at St. Louis Lambert Airport in the 1st Quarter 2021. In 1st Quarter 2021, the Boeing 737-700 (6,820 operations) decreased by 47.9 percent and the Boeing 737-800 decreased by 46.6 percent from the same period in 2020. Commercial passenger narrow body operations continued the decline that began in the 2nd Quarter of 2020 due to the pandemic. Moving into the top 15 aircraft at the Airport in 1st Quarter 2021 was the Tecnam P 2012 aircraft used by Cape Air, the Embraer 135 aircraft flown by Contour Airlines, and the Airbus 320N flown by Frontier Airlines. Seven of the top fifteen aircraft at the Airport are operated by regional carriers. There were 123 known aircraft types that landed at St. Louis Lambert International Airport during this period according to Harris data\*.

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### Operations by Aircraft 1st Quarter 2020-2021 Top 15 Aircraft operating at STL



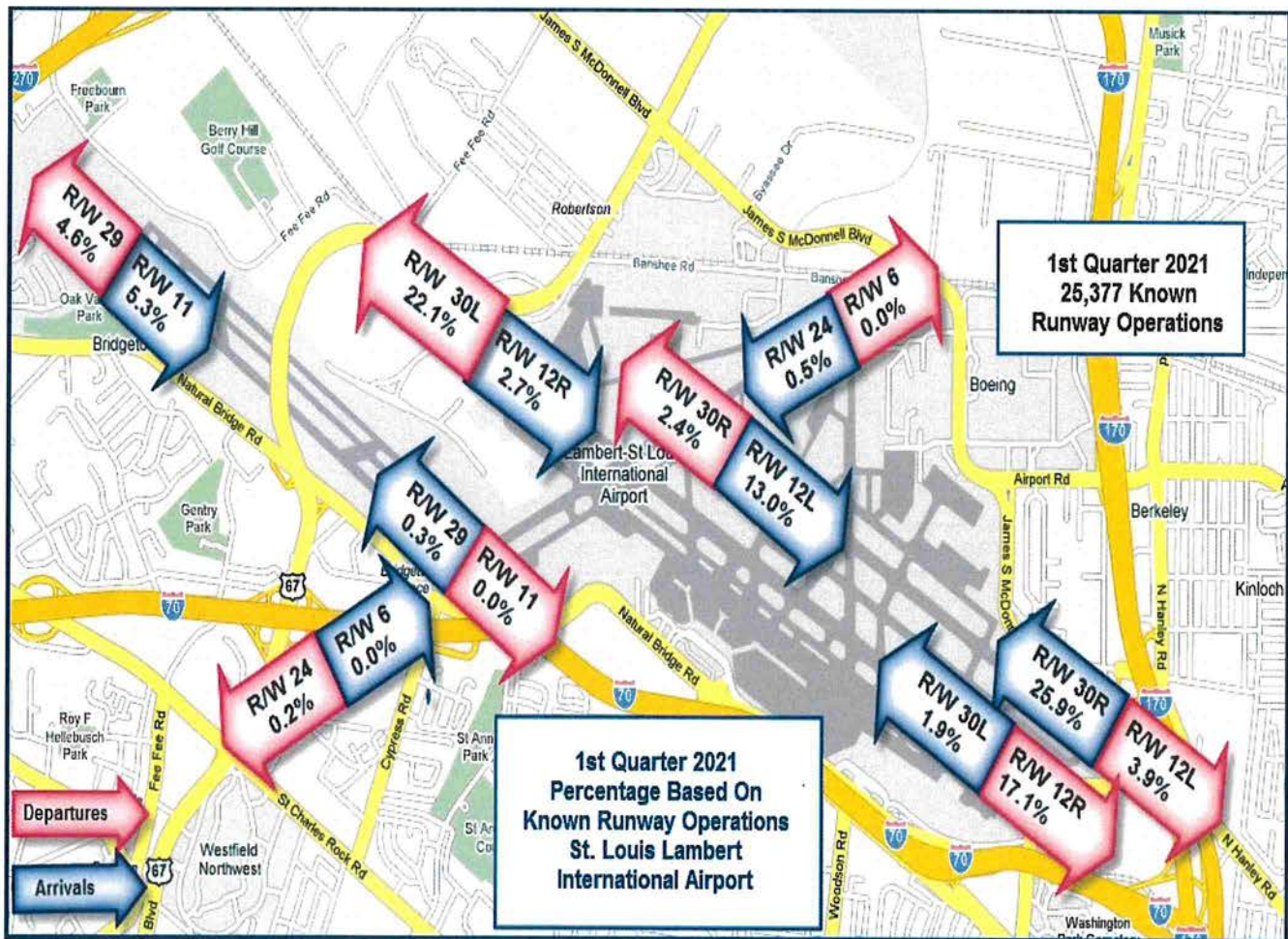


## STL 1st Quarter 2021 Noise and Airline Traffic Report

### DISTRIBUTION OF TRAFFIC

There were 25,644 operations recorded in the 1st Quarter of 2021 compared to 43,680 operations in 1st Quarter 2020, a decrease of 41.3 percent. The chart below shows the total percentages of use for known runways for this period. The most utilized runway for departures was Runway 30L (22.1 percent). The most utilized runway for arrivals was Runway 12R (17.1 percent). The crosswind runway 6-24 was the least used runway for this period. The Distribution of Traffic (Eastbound vs. Westbound) for the 1st Quarter of 2021 was 41.9 percent eastbound and 58.1 percent westbound operations.

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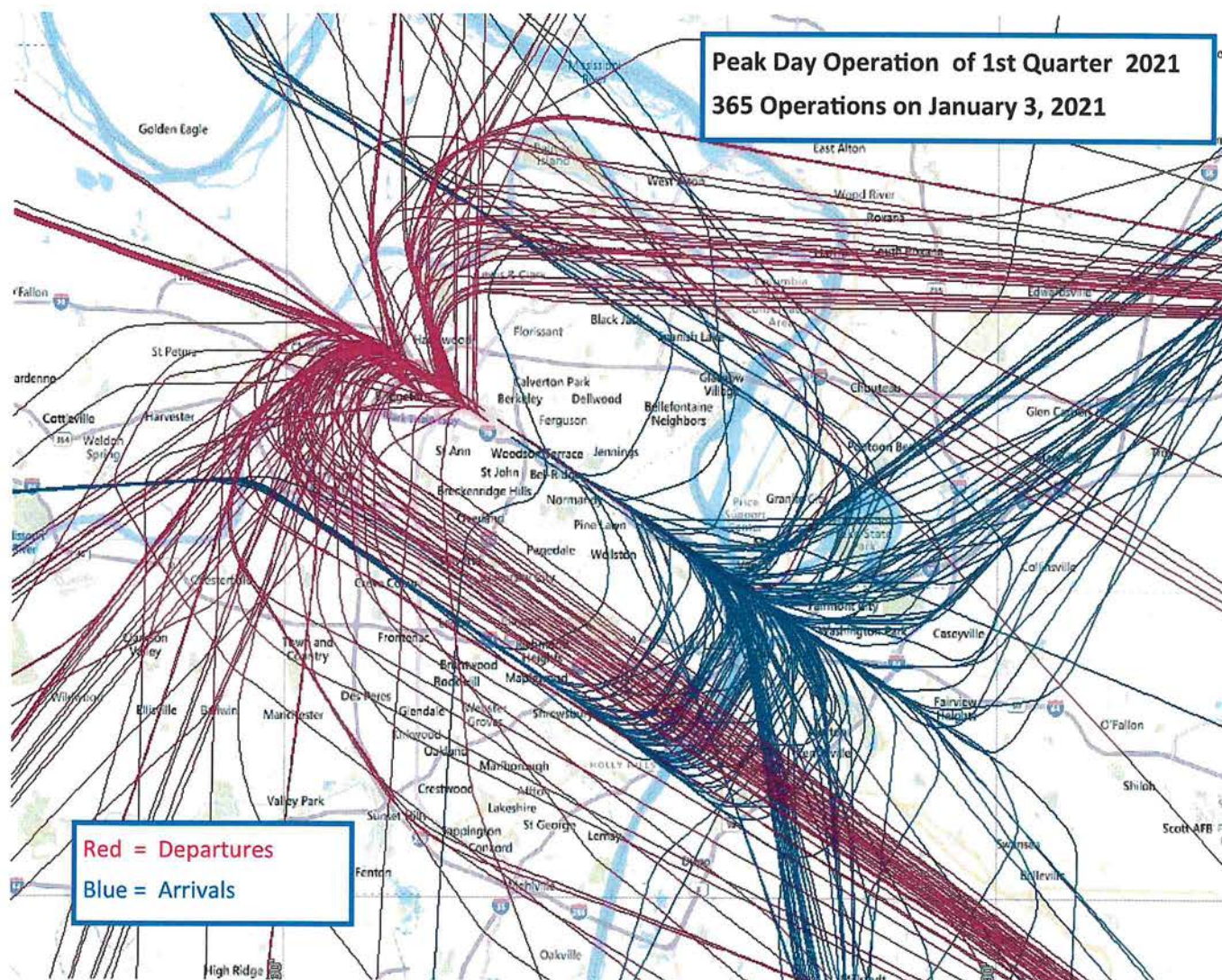




## STL 1st Quarter 2021 Noise and Airline Traffic Report

**1st Quarter 2021**

**Peak Day Operation**



**ST. LOUIS LAMBERT  
INTERNATIONAL AIRPORT.**

**Airport Noise Management Office**  
Airport Planning & Development  
St. Louis Lambert International Airport®  
P.O. Box 10212  
St. Louis, MO 63145

**Noise Complaint Hot Line (314) 551-5070 — [noisehotline@flystl.com](mailto:noisehotline@flystl.com) — Fax: (314) 551-5013**

Publication of St. Louis Lambert International Airport Noise Management Office



# STL Airport Noise and Airline Traffic Report

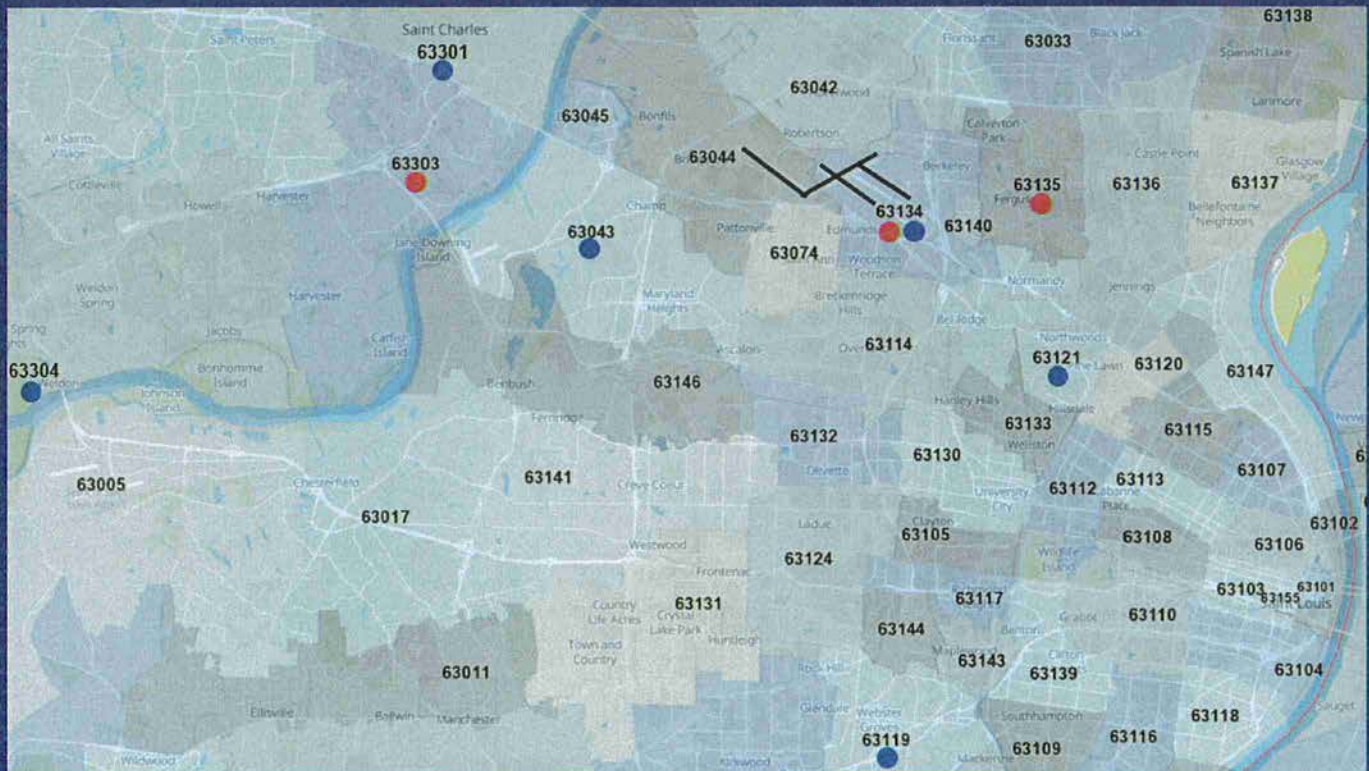
## 2nd Quarter 2021

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### 2ND QUARTER 2021

#### NOISE COMPLAINTS

There were six noise complaints received in the 2nd Quarter of 2021 compared to the 11 noise complaints in the 2nd Quarter of 2020. The noise complaints were from six communities. Residents complained about loud, low, and frequent aircraft, over their homes and subdivisions where they stated there were not aircraft before. Two residents to the west of the Airport in St. Charles, complained about early morning cargo arrivals. Four complaints were about operations that occurred during day time hours (7 a.m. to 10 p.m.) and two complaints were about operations that occurred during night time hours (10 pm to 7 am). Landings and take-offs (operations) during the day time hours accounted for 87.0 percent of the operations while 13.0 percent of the operations occurred during the night time period. The chart below which is a composite of all noise complaints for 2021 thus far, shows number of complaints by zip code. Not all complainant zip codes are shown on the map below because some complainants did not state where they were calling from or the their location is outside of the map boundaries below.



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3rd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4th	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## STL Noise and Airline Traffic Report 2nd Quarter 2021

### RUNWAY IDENTIFICATION

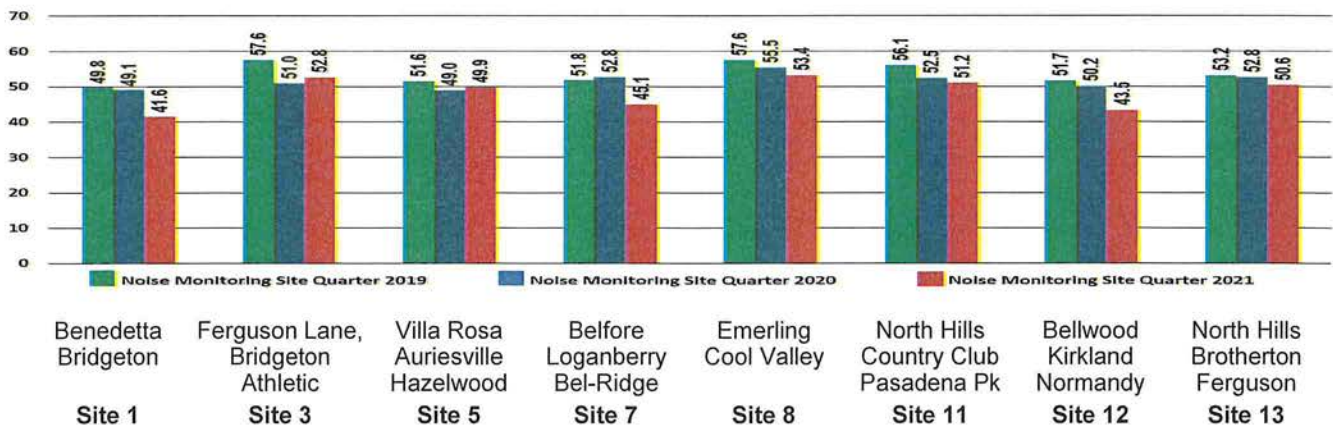
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The DNL (Day-Night average sound level) metric describes the total noise exposure during a given period. In computing DNL, an extra weighting of 10dB is assigned to airplane events occurring between the hours of 10 pm to 7 am. The FAA has established 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.

Noise Monitoring Data  
2nd Quarter 2021 Average DNL (Day/Night/Level)  
Years 2019-2021



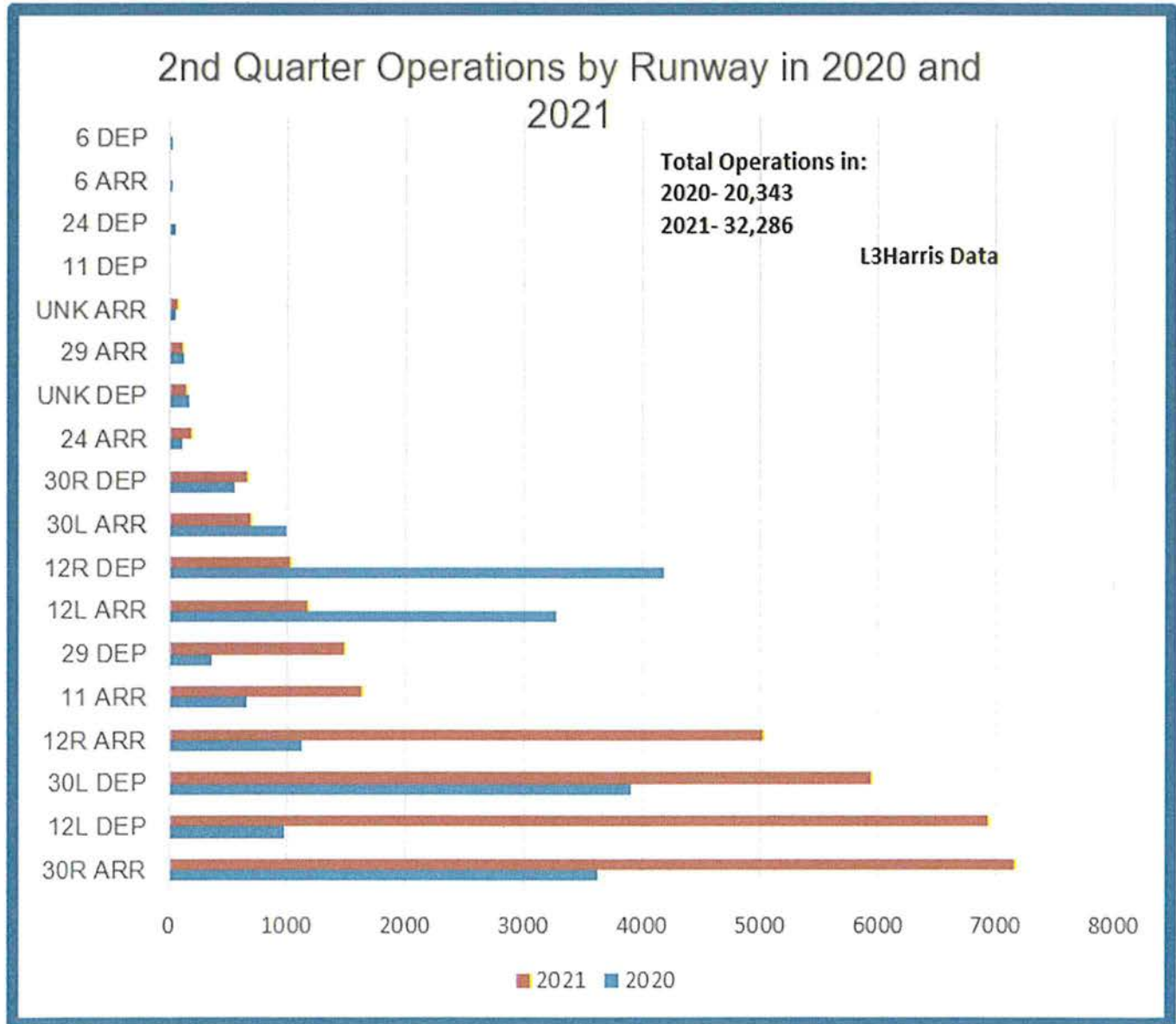


## STL Noise and Airline Traffic Report 2nd Quarter 2021

### OPERATIONS BY RUNWAY

There were 32,286 operations in the 2nd Quarter of 2021 compared to 20,343 operations in the 2nd Quarter of 2020, an increase of 58.7 percent according to L3Harris data\*. Runway 30R was the most used runway for arrivals at 22.2 percent (7,156) followed by Runway 12R at 15.5 percent (5,018). The most used runways for departures were Runway 12L at 21.5 percent (6,938) followed by Runway 30L at 18.4 percent (5,933). In the 2nd Quarter 2021, there were 32,052 (99.3 percent) operations in which the runway was identified and 234 operations (0.7 percent) where the runways were not identified.

\*The L3Harris 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.





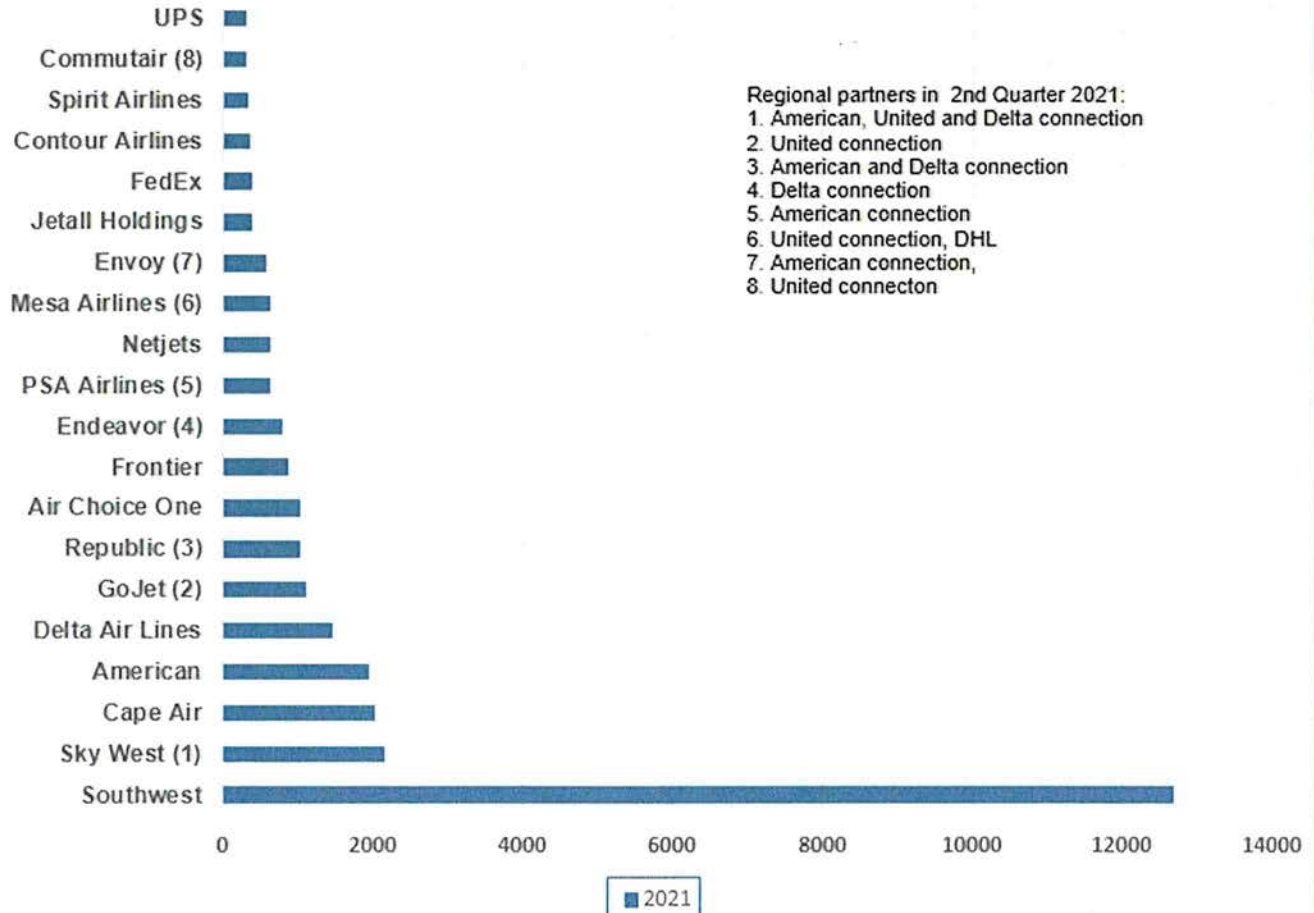
## STL Noise and Airline Traffic Report 2nd Quarter 2021

### OPERATIONS BY AIRLINE

The top 20 airlines operating at STL in the 2nd Quarter 2021 include commercial passenger carriers, regional carriers, and general aviation business jet aircraft. These top 20 airlines accounted for 90.5 percent of all operations. Shown in the chart below are the top 12 Part 121 commercial passenger airlines, three Part 135 airlines (Cape Air, Air Choice One and Contour Airlines), two general aviation business charter jets (Jetall Holdings and Netjets Aviation), and three cargo airlines (UPS, Mesa/DHL and FedEx) for the 2nd Quarter 2021. One carrier, Mesa Airlines, serves as a United Airlines connection and also contracts with DHL as a cargo provider. Its combined regional carrier operations and cargo operations ranks it #13 in the 2nd Quarter 2021 in STL operations. The 2nd Quarter 2021 group includes eight regional commercial passenger jet airlines. Regional carriers accounted for 15.4 percent of the operations in 2nd Quarter 2021. Southwest, Spirit, and Frontier are the only major airlines that are not partnered with the regional airlines at St. Louis Lambert International Airport.

There were 62 Part 121 and Part 135 airlines that utilized the Airport during this period. Part 121 airlines are commercial aircraft with more than 30 seats and Part 135 airlines are operate aircraft with less than 30 seats.

#### Operations by the top twenty Airlines in 2nd Quarter 2021



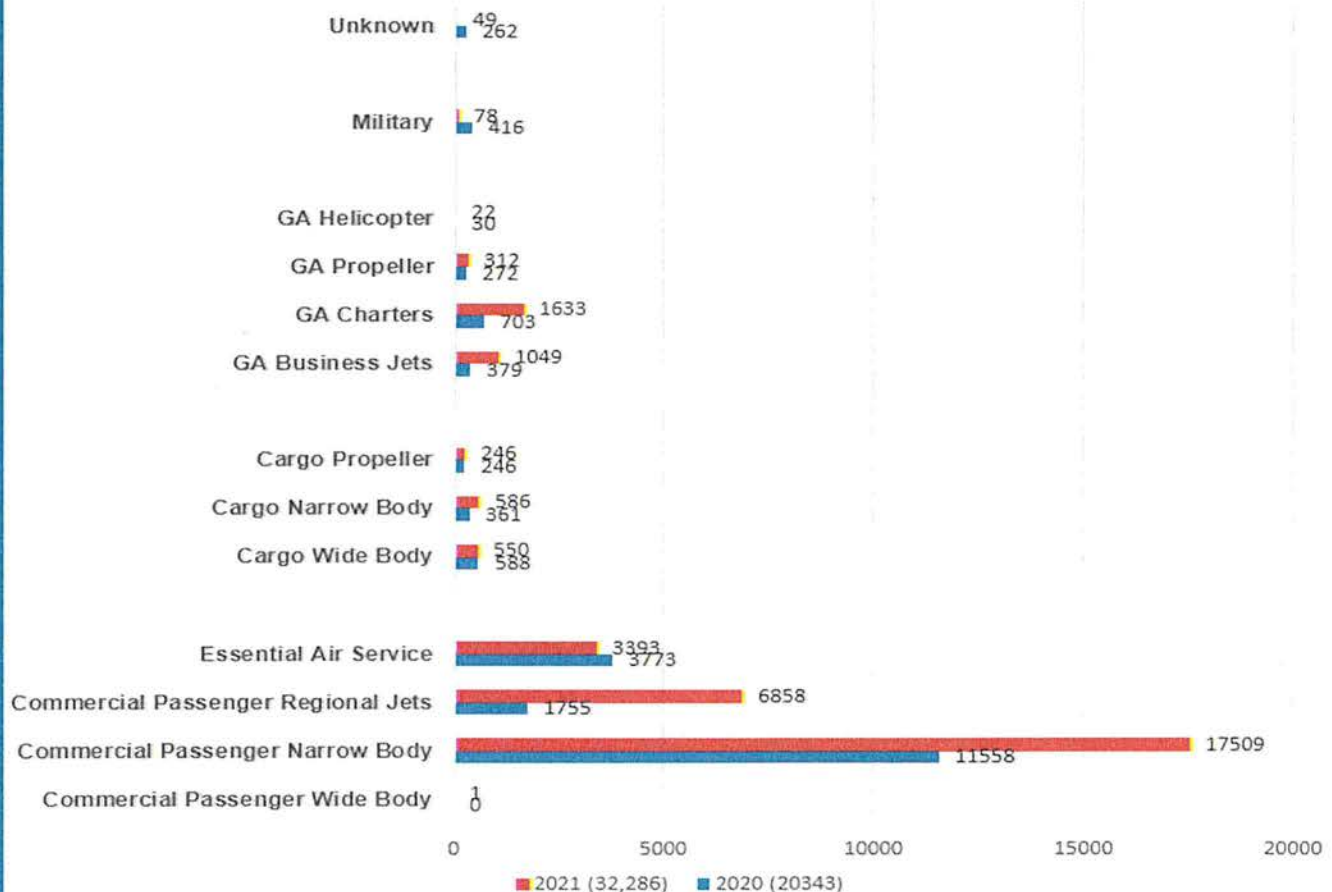
## STL Noise and Airline Traffic Report 2nd Quarter 2021

### OPERATIONS BY CATEGORY OF SERVICE

Looking at the 2nd Quarter of 2021 there was a significant increase in operations from 2nd Quarter 2020. Total operations in the 2nd Quarter of 2021 as reported in the L3Harris data\* were up 58.7 percent from 2nd Quarter 2020. Essential Air Service (EAS) declined 10.1 percent in the 2nd Quarter 2021 from the same period in 2020. Boutique Airlines, a new EAS to STL joined Cape Air, Contour, and Air Choice One providing air service to small airports. Commercial narrow body operations were up 51.5 percent with a new addition, Spirit Airlines, providing commercial passenger service. There was an increase of 132.3 percent in charter operations reported by L3Harris from 2nd Quarter 2020. Commercial cargo, used to move goods to warehouses for distribution, increased by 15.6 percent from 2nd Quarter 2020. The Federal Aviation Administration has significantly filtered military operations. The Airport is working with L3Harris and other Airports across the country to obtain the military information.

\*The L3Harris 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 Category of Service 2nd Q 2020 and 2021



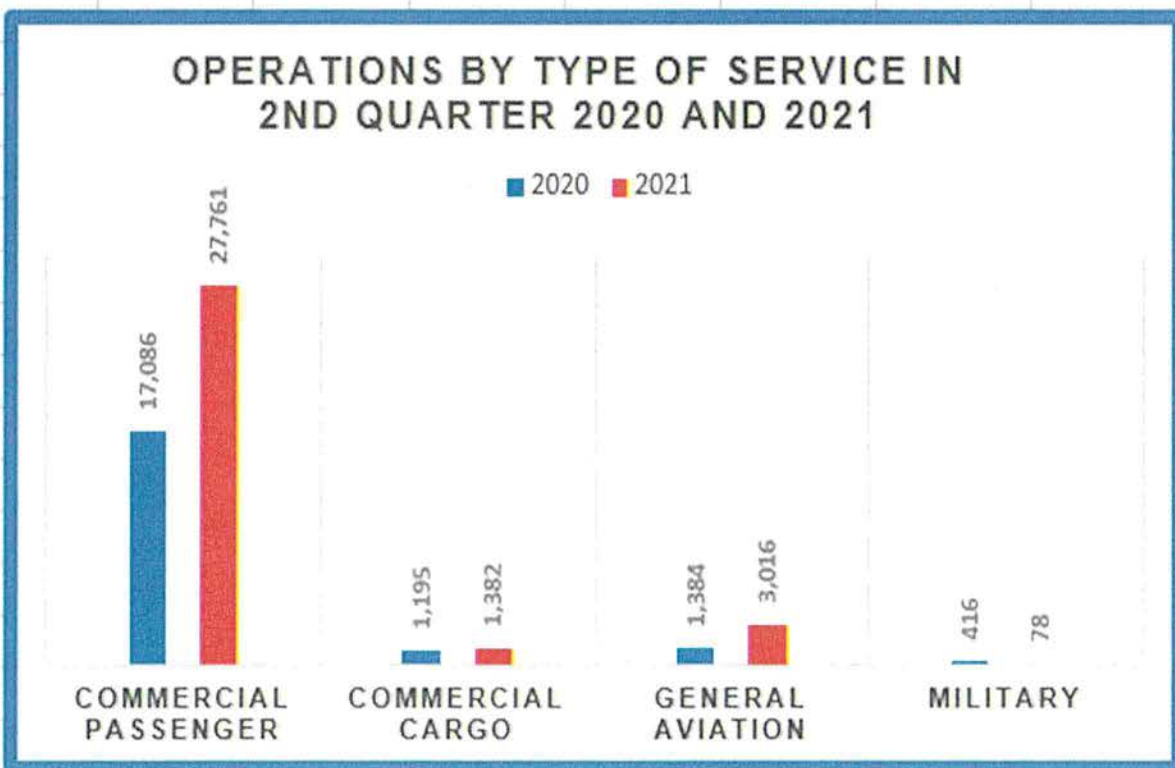


## STL Noise and Airline Traffic Report 2nd Quarter 2021

### OPERATIONS BY TYPE OF SERVICE

Commercial Passenger, Commercial Cargo, General Aviation, and Military are the four categories of operations. The L3Harris data\* also includes unknown operations category for aircraft that were not identified by either the airline or aircraft equipment type, or both. Commercial passenger operations comprised 86.1 percent of the total operations in 2nd Quarter 2021 as compared to 85.1 percent of the operations in the 2nd Quarter 2020. L3Harris data reported operations for the general aviation category, which includes business jets, propeller, and helicopter operations at 9.2 percent as compared to 6.4 percent in 2020. In the 2nd Quarter 2021, commercial cargo operations were 9.4 percent of all operations compared to 6.9 percent in 2020. Military operations are being filtered by the FAA and L3 Harris is working with the FAA to resolve the issue.

\*The L3Harris 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



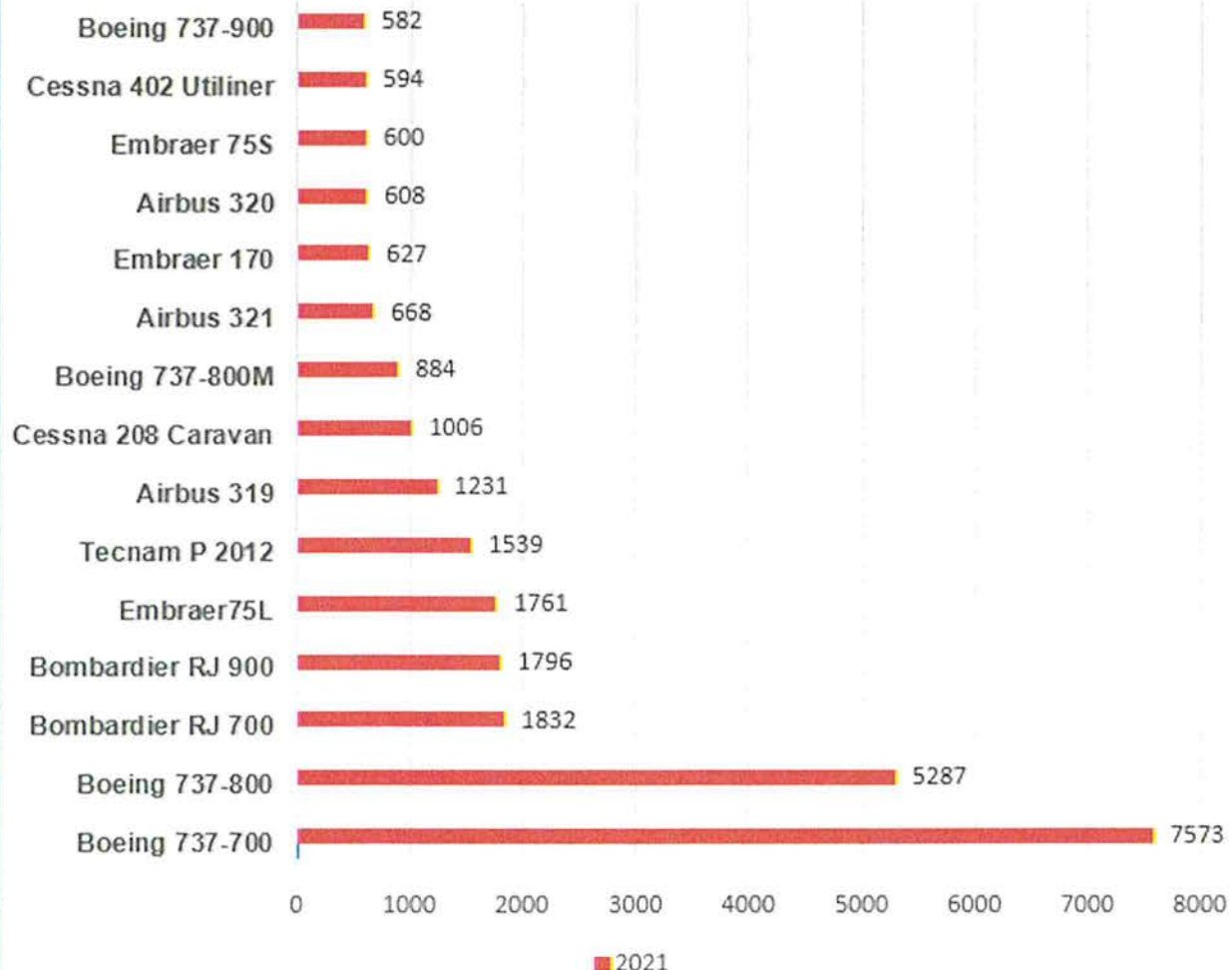
## STL Noise and Airline Traffic Report 2nd Quarter 2021

### OPERATIONS BY AIRCRAFT

Shown below are top fifteen aircraft operating at St. Louis Lambert International Airport in the 2nd Quarter 2021. In 2nd Quarter 2021, the Boeing 737-700 (7,573 operations) and the Boeing 737-800 (5,287 operations) were the most utilized aircraft operating at STL. Moving into the top 15 aircraft in 2nd Quarter 2021 were four aircraft: the Boeing 737-900, Airbus 321, the Embraer 75S flown by several regional carriers, and the Boeing 737-800M which made a re-entry into STL market after being grounded for over two years. The Boeing 737-800M aircraft is flown by Southwest and American Airlines. Five of the top fifteen aircraft at the Airport are operated by regional carriers. There were 140 known aircraft types that landed at St. Louis Lambert International Airport during this period according to Harris data\*.

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#### Operations by Aircraft 2nd Quarter 2021 Top 15 Aircraft operating at STL



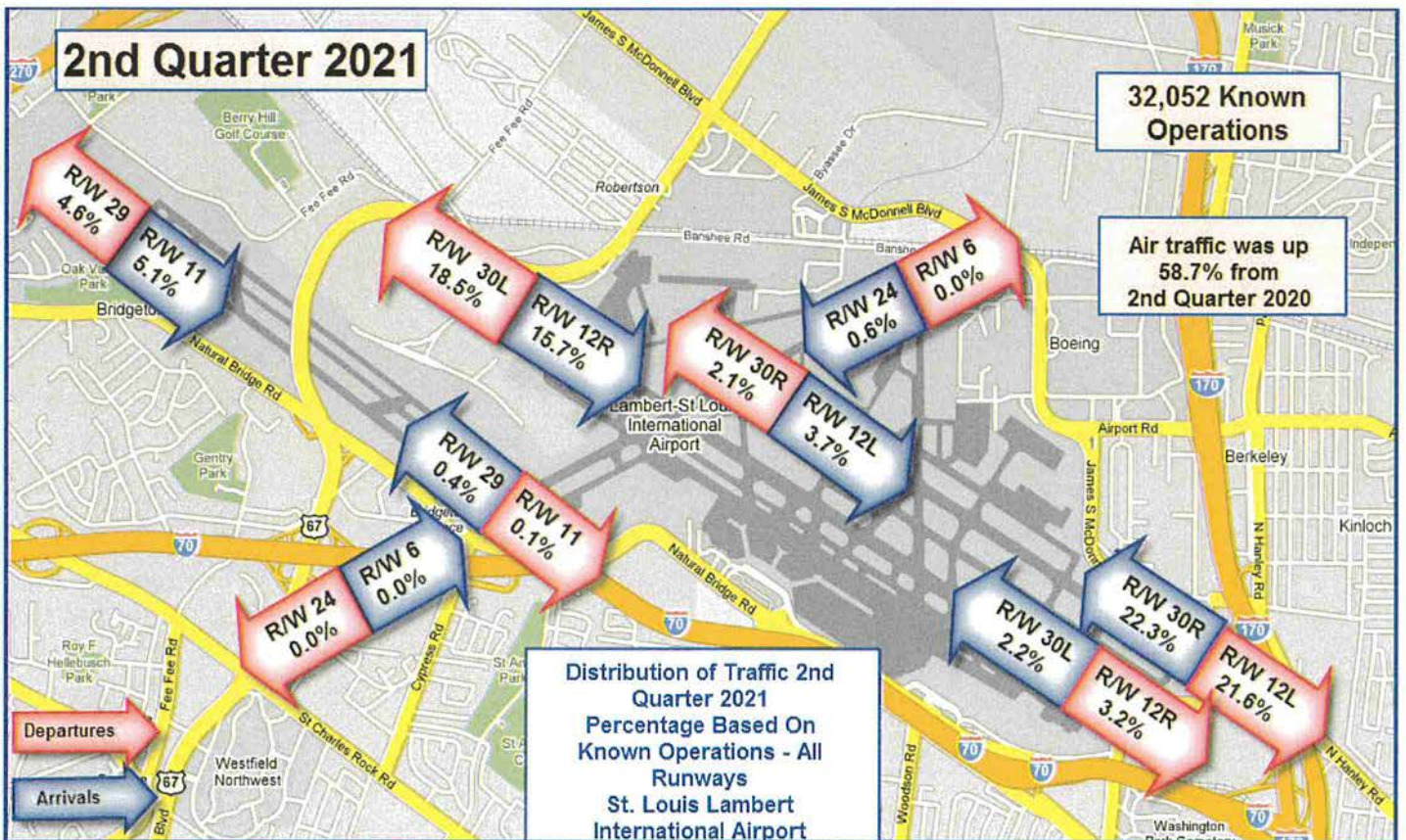


## STL Noise and Airline Traffic Report 2nd Quarter 2021

### DISTRIBUTION OF TRAFFIC

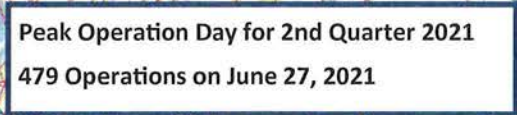
There were 32,286 operations recorded in the 2nd Quarter of 2021 compared to 20,343 operations in 2nd Quarter 2020, an increase of 58.7 percent. The chart below shows the total percentages of use for known runways for this period. The most utilized runway for departures was Runway 12L (21.6 percent). The most utilized runway for arrivals was Runway 30R (22.3 percent). The crosswind runway 6-24 was the least used runway for this period. The Distribution of Traffic (Eastbound vs. Westbound ) for the 2nd Quarter of 2021 was 49.7 percent eastbound and 50.3 percent westbound operations.

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## 2nd Quarter 2021 Peak Day Operation



Red—Departure tracks  
Blue—Arrival tracks



**Noise Complaint Hot Line (314) 551-5070 — [noisehotline@flystl.com](mailto:noisehotline@flystl.com) — Fax: (314) 551-5013**



# STL Airport Noise and Airline Traffic Report

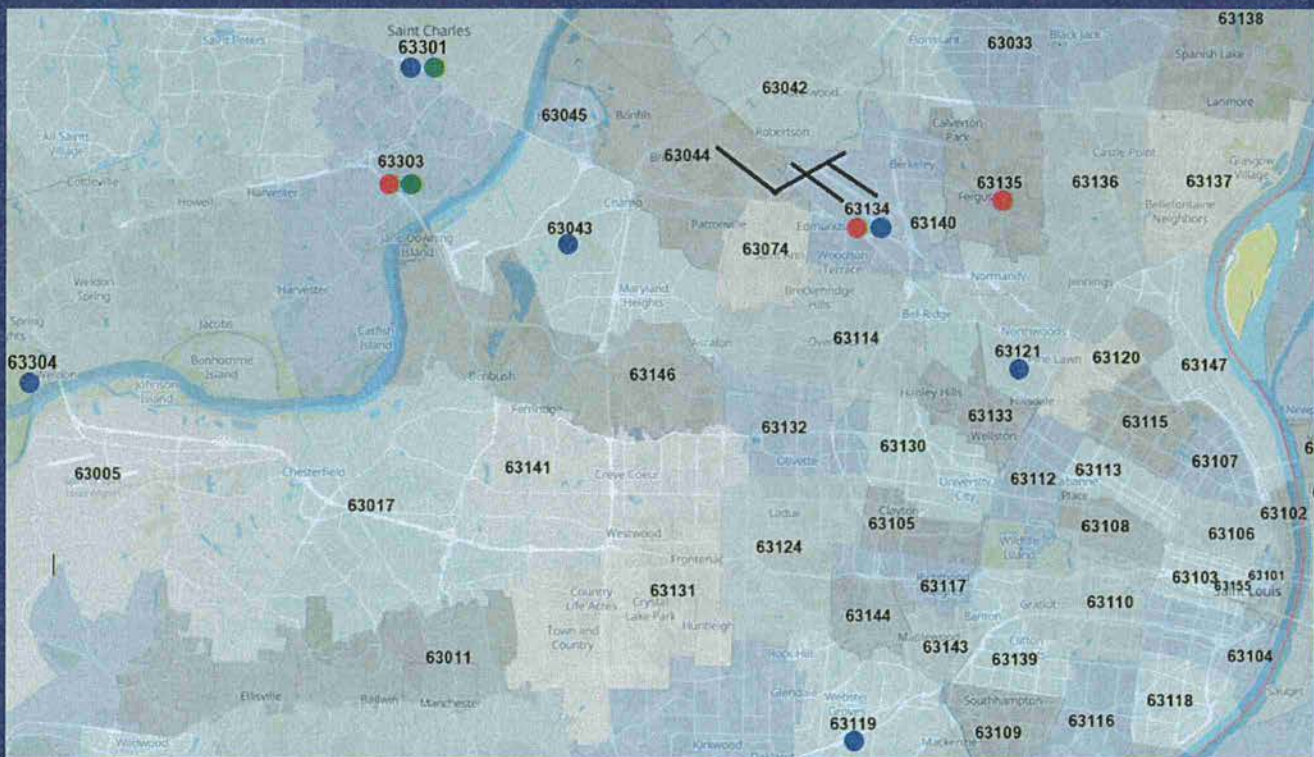
## 3rd Quarter 2021

The Airport Noise and Airline Traffic Report provides the 3rd Quarter 2021 summary of St. Louis Lambert International Airport's operations and noise complaints. The data in this report is from L3Harris, 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 2021

#### NOISE COMPLAINTS

There were just two noise complaints received in the 3rd Quarter of 2021 compared to the six noise complaints in the 3rd Quarter of 2020. The noise complaints were from St. Charles. One complainant called about constant aircraft over his house. The second complainant called about early morning cargo arrivals. One complaint was about operations that occurred during day time hours (7 a.m. to 10 p.m.) and the other about operations that occurred during night time hours (10 pm to 7 am). Landings and take-offs (operations) during the day time hours accounted for 86.2 percent of the operations while 13.8 percent of the operations occurred during the night time period. The chart below which is a composite of all noise complaints for 2021 thus far, shows number of complaints by zip code. Not all complainant zip codes are shown on the map below because some complainants did not state where they were calling from or the their location is outside of the map boundaries below.



Qtr.	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls	Zip	Calls
1st	63134	2	63135	1	63303	1	UKN	1	-	-	-	-	-	-	-	-	-	-	-	-
2nd	63043	1	63119	1	63121	1	63134	1	63301	1	63304	1	-	-	-	-	-	-	-	-
3rd	63301	1	63303	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4th	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## STL Noise and Airline Traffic Report 3rd Quarter 2021

### RUNWAY IDENTIFICATION

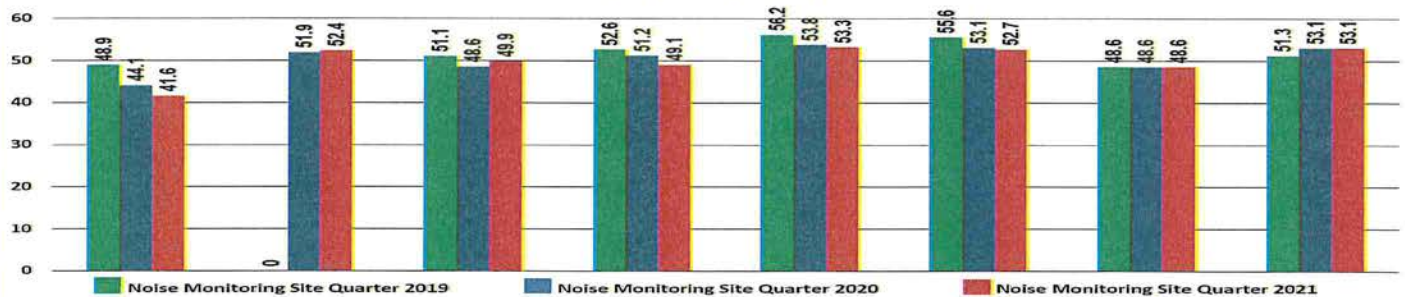
The runways at St. Louis Lambert International Airport are: 12R/30L (11,019'x200'), 12L/30R (9,003'x150'), 11/29 (9,001'x150'), and 6/24 (7,607'x150').

### 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 airplane events 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.

**Noise Monitoring Data**  
3rd Quarter 2021 Average DNL (Day/Night/Level)  
Years 2019-2021



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**

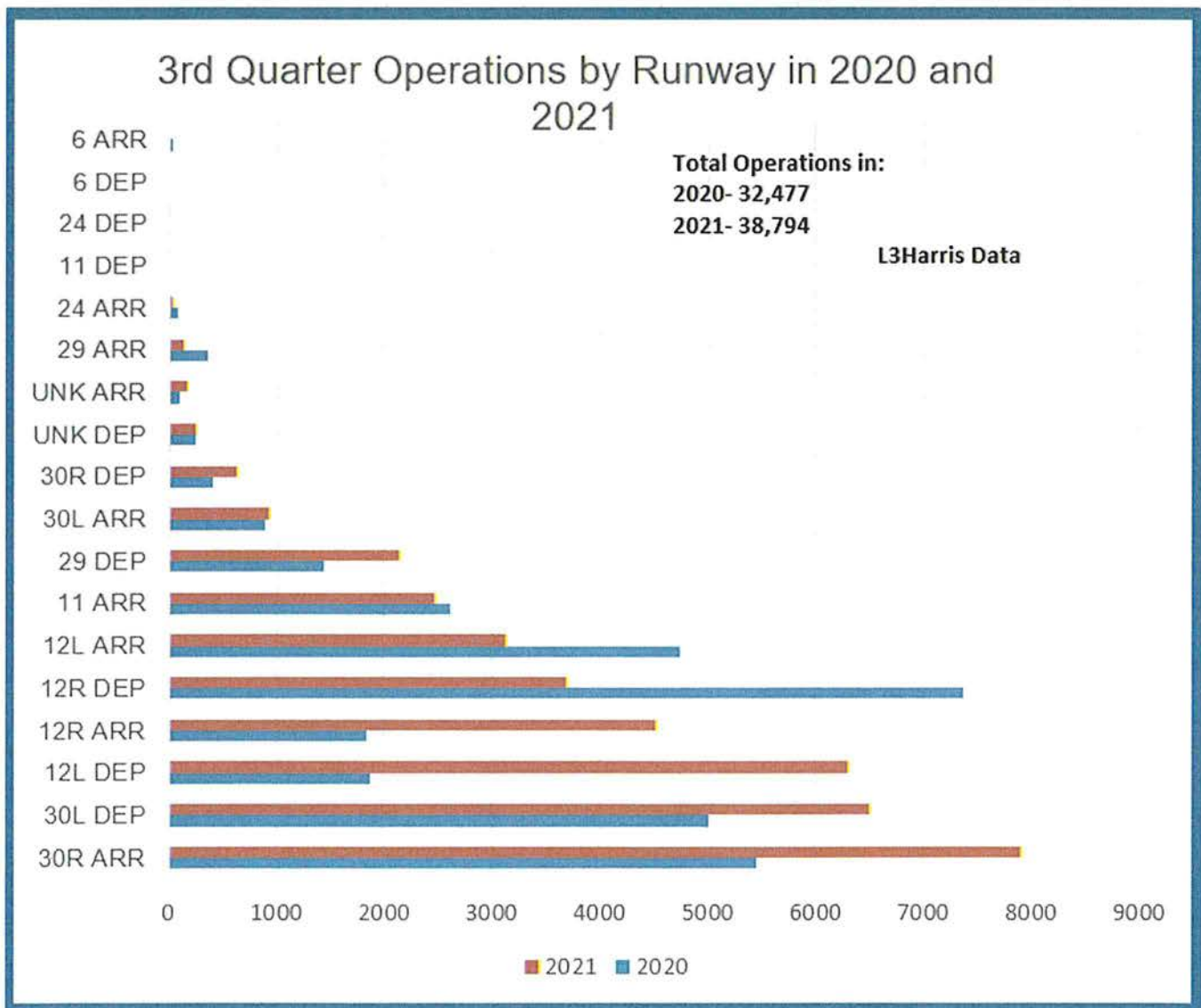


## STL Noise and Airline Traffic Report 3rd Quarter 2021

### OPERATIONS BY RUNWAY

There were 38,794 operations in the 3rd Quarter of 2021 compared to 32,477 operations in the 3rd Quarter of 2020, an increase of 19.5 percent according to L3Harris data\*. Runway 30R was the most used runway for arrivals at 20.3 percent (7,907) followed by Runway 12R at 11.6 percent (4,514). The most used runways for departures were Runway 30L at 16.7 percent (6,494) followed by Runway 12L at 16.2 percent (6,294). In the 3rd Quarter 2021, there were 38,375 (98.9 percent) operations in which the runway was identified and 419 operations (1.1 percent) where the runways were not identified.

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## STL Noise and Airline Traffic Report 3rd Quarter 2021

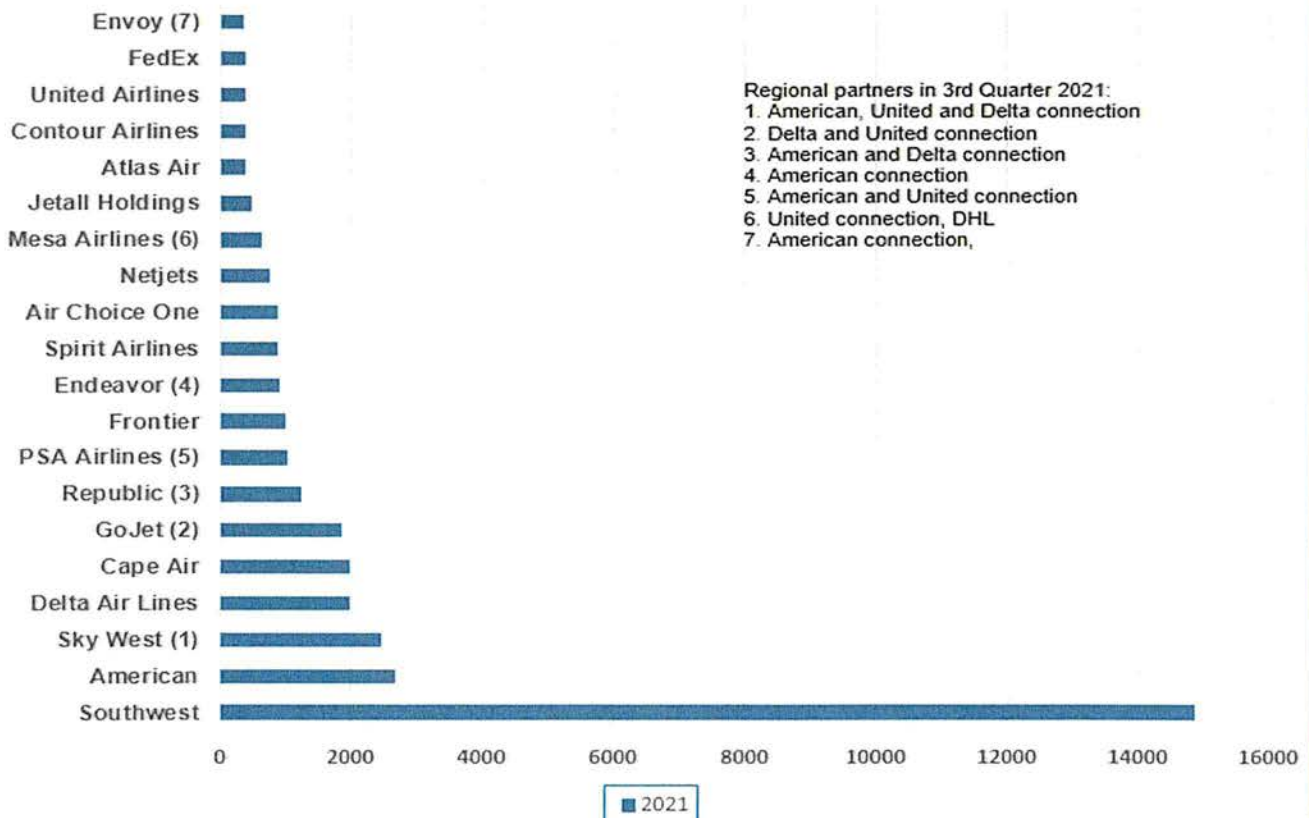
### OPERATIONS BY AIRLINE

The top 20 airlines operating at STL in the 3rd Quarter 2021 include commercial passenger carriers, regional carriers, and general aviation business jet aircraft. These top 20 airlines accounted for 90.4 percent of all operations. Shown in the chart below are the top 12 Part 121 commercial passenger airlines, three Part 135 airlines (Cape Air, Air Choice One and Contour Airlines), two general aviation business charter jets (Jetall Holdings and Netjets Aviation), and three cargo airlines (Atlas, Mesa/DHL and FedEx) for the 3rd Quarter 2021. One carrier, Mesa Airlines, serves as a United Airlines connection and also contracts with DHL as a cargo provider. Its combined regional carrier operations and cargo operations ranks it #14 in the 3rd Quarter 2021 in STL operations. The 3rd Quarter 2021 group includes seven regional commercial passenger jet airlines. Regional carriers accounted for 15.9 percent of the operations in 3rd Quarter 2021. Southwest, Spirit, and Frontier are the only major airlines that are not partnered with the regional airlines at St. Louis Lambert International Airport.

There were 68 Part 121 and Part 135 airlines that utilized the Airport during this period. Part 121 airlines are regularly scheduled carried or large US based carriers with more than 30 seats. Part 135 airlines are on demand, unscheduled carriers with less than 30 seats or commuter are carriers with less than 9 seats. Part 133 are rotocraft aircraft.

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#### Operations by the top twenty Airlines in 3rd Quarter 2021





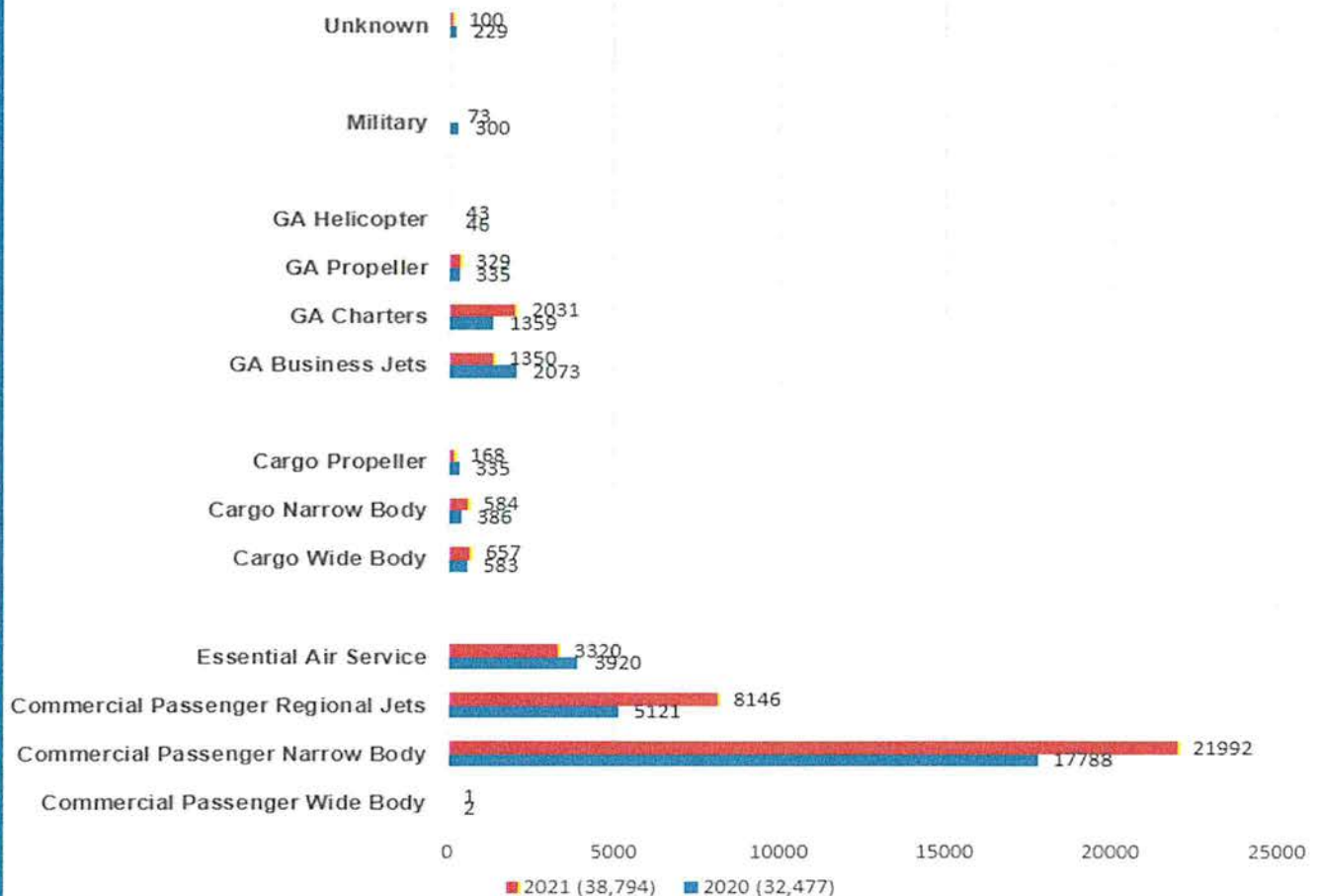
## STL Noise and Airline Traffic Report 3rd Quarter 2021

### OPERATIONS BY CATEGORY OF SERVICE

Looking at the 3rd Quarter of 2021 there was an increase in operations from 3rd Quarter 2020 as travel began to resume. Total operations in the 3rd Quarter of 2021 as reported in the L3Harris data\* were up 19.5 percent from 3rd Quarter 2020. Essential Air Service (EAS) declined 15.3 percent in the 3rd Quarter 2021 from the same period in 2020. Contour Airlines an EAS providing service to Fort Leonard Wood, ceased operations at the end of September and EAS operations at STL and it is expected that the 4th Quarter EAS operations will continue the trend. Commercial narrow body operations were up 23.6 percent. There was an increase of 49.4 percent in GA charter operations reported by L3Harris from 3rd Quarter 2020. Commercial cargo, used to move goods to warehouses for distribution, increased by 8.0 percent from 3rd Quarter 2020. With the Holiday season approaching, the cargo operations should be higher in the 4th Quarter. The Federal Aviation Administration has significantly filtered military operations. The Airport is working with L3Harris and other Airports across the country to obtain the military information.

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### Operations by Category of Service 3rd Q 2020 and 2021



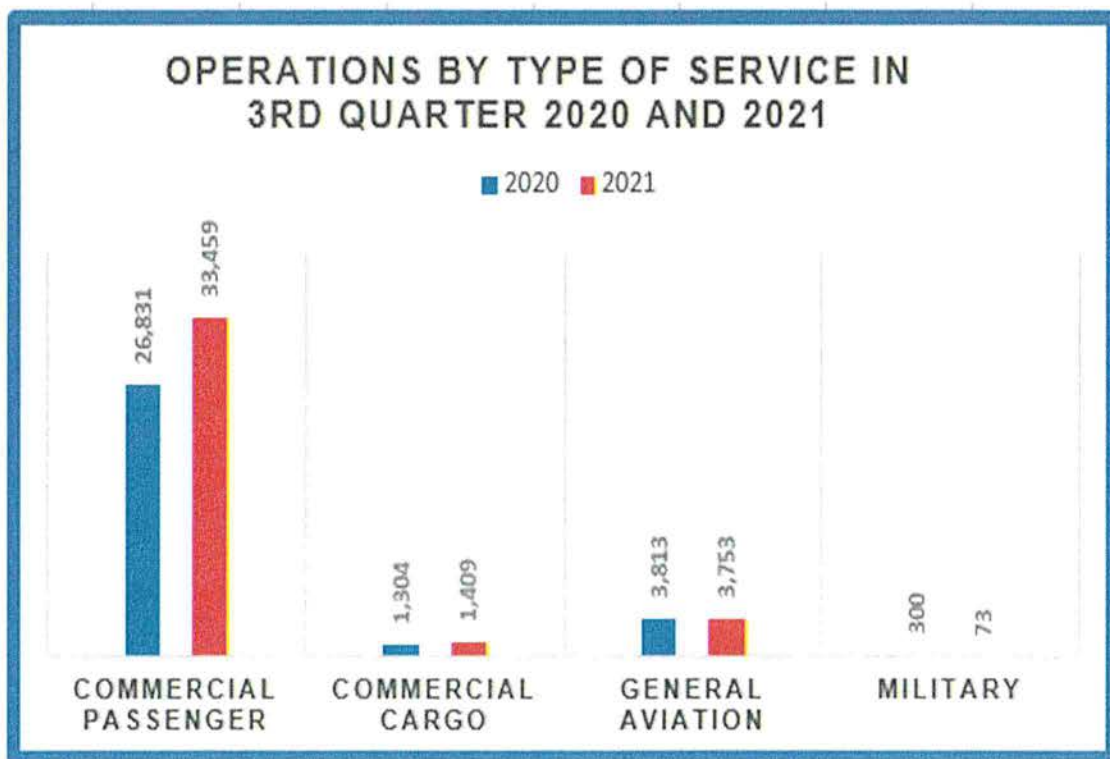


## STL Noise and Airline Traffic Report 3rd Quarter 2021

### OPERATIONS BY TYPE OF SERVICE

Commercial Passenger, Commercial Cargo, General Aviation, and Military are the four categories of operations. The L3Harris data\* also includes unknown operations category for aircraft that were not identified by either the airline or aircraft equipment type, or both. Commercial passenger operations comprised 86.2 percent of the total operations in 3rd Quarter 2021 as compared to 82.6 percent of the operations in the 3rd Quarter 2020. L3Harris data reported operations for the general aviation category, which includes business jets, propeller, and helicopter operations at 9.7 percent as compared to 11.7 percent in 2020. In the 3rd Quarter 2021, commercial cargo operations were 3.6 percent of all operations compared to 4.0 percent in 2020. Military operations are being filtered by the FAA and L3 Harris is working with the FAA to resolve the issue.

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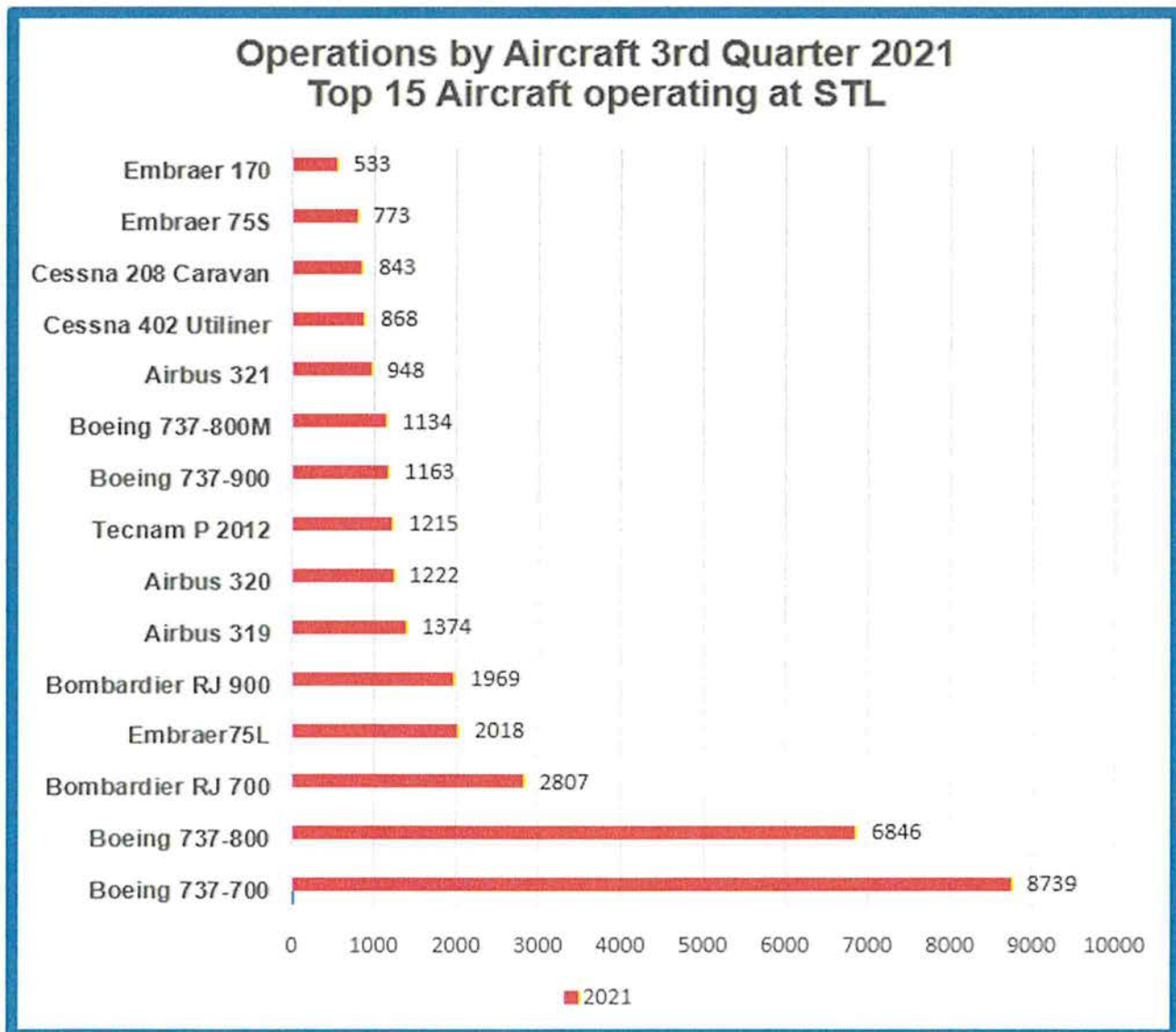


## STL Noise and Airline Traffic Report 3rd Quarter 2021

### OPERATIONS BY AIRCRAFT

Shown below are top fifteen aircraft operating at St. Louis Lambert International Airport in the 3rd Quarter 2021. In 3rd Quarter 2021, the Boeing 737-700 (8,739 operations) and the Boeing 737-800 (6,846 operations) were the most utilized aircraft operating at STL. Except for changing position in the ranking based on utilization, the top fifteen aircraft remained the same from the 2nd Quarter 2021. The Boeing 737-800M aircraft and the Bombardier RJ7 had the biggest increases from the 2nd Quarter 2021 to 3rd Quarter 2021. Five of the top fifteen aircraft at the Airport are operated by regional carriers. There were 171 known aircraft types that landed at St. Louis Lambert International Airport during this period according to Harris data\*.

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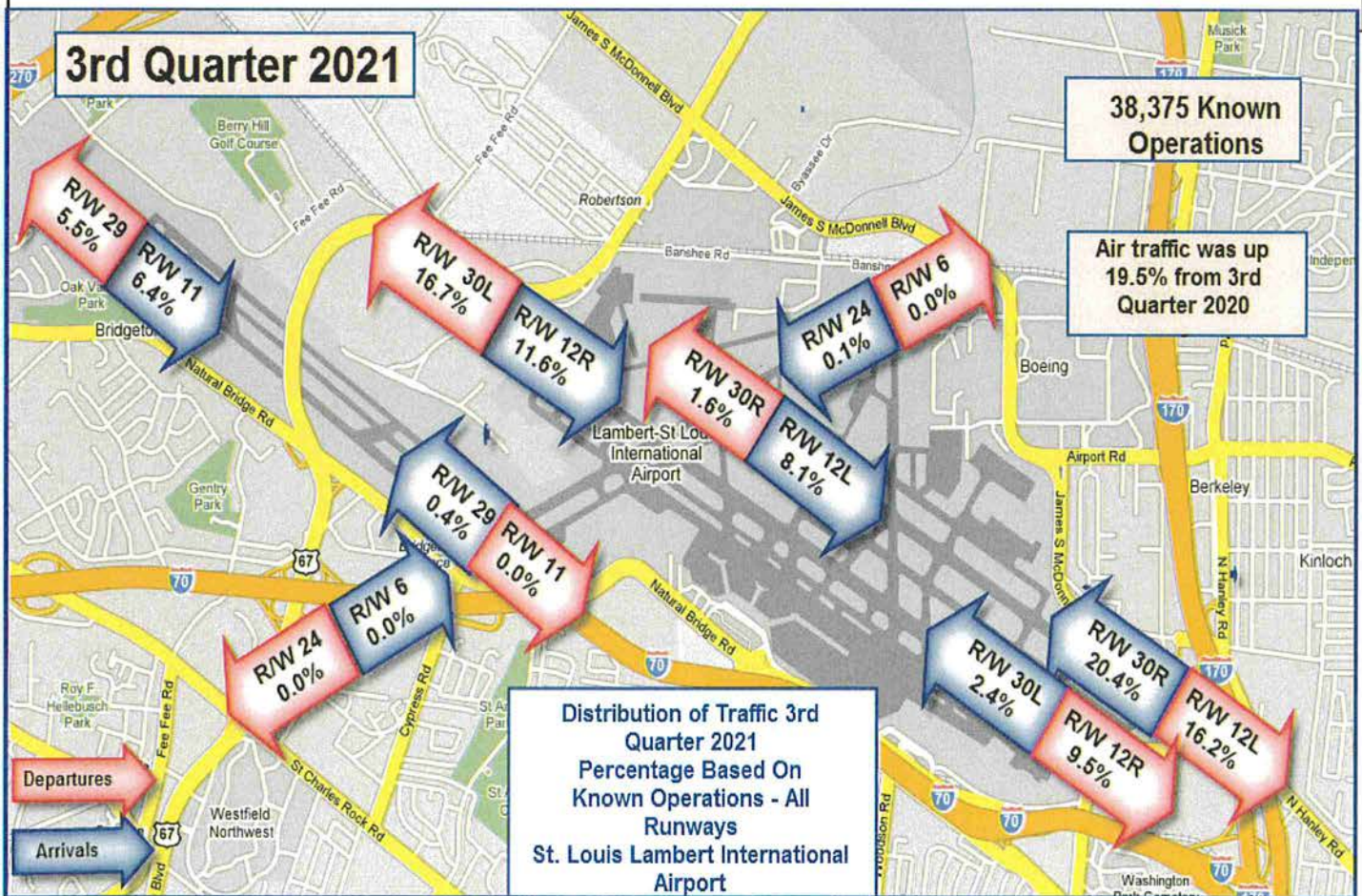


## STL Noise and Airline Traffic Report 3rd Quarter 2021

### DISTRIBUTION OF TRAFFIC

There were 38,794 operations recorded in the 3rd Quarter of 2021 compared to 32,477 operations in 3rd Quarter 2020, an increase of 19.5 percent. The chart below shows the total percentages of use for known runways for this period. The most utilized runway for departures was Runway 30L (16.7 percent of known operations). The most utilized runway for arrivals was Runway 30R (20.4 percent of known operations). 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 2021 was 49.7 percent eastbound and 50.3 percent westbound operations.

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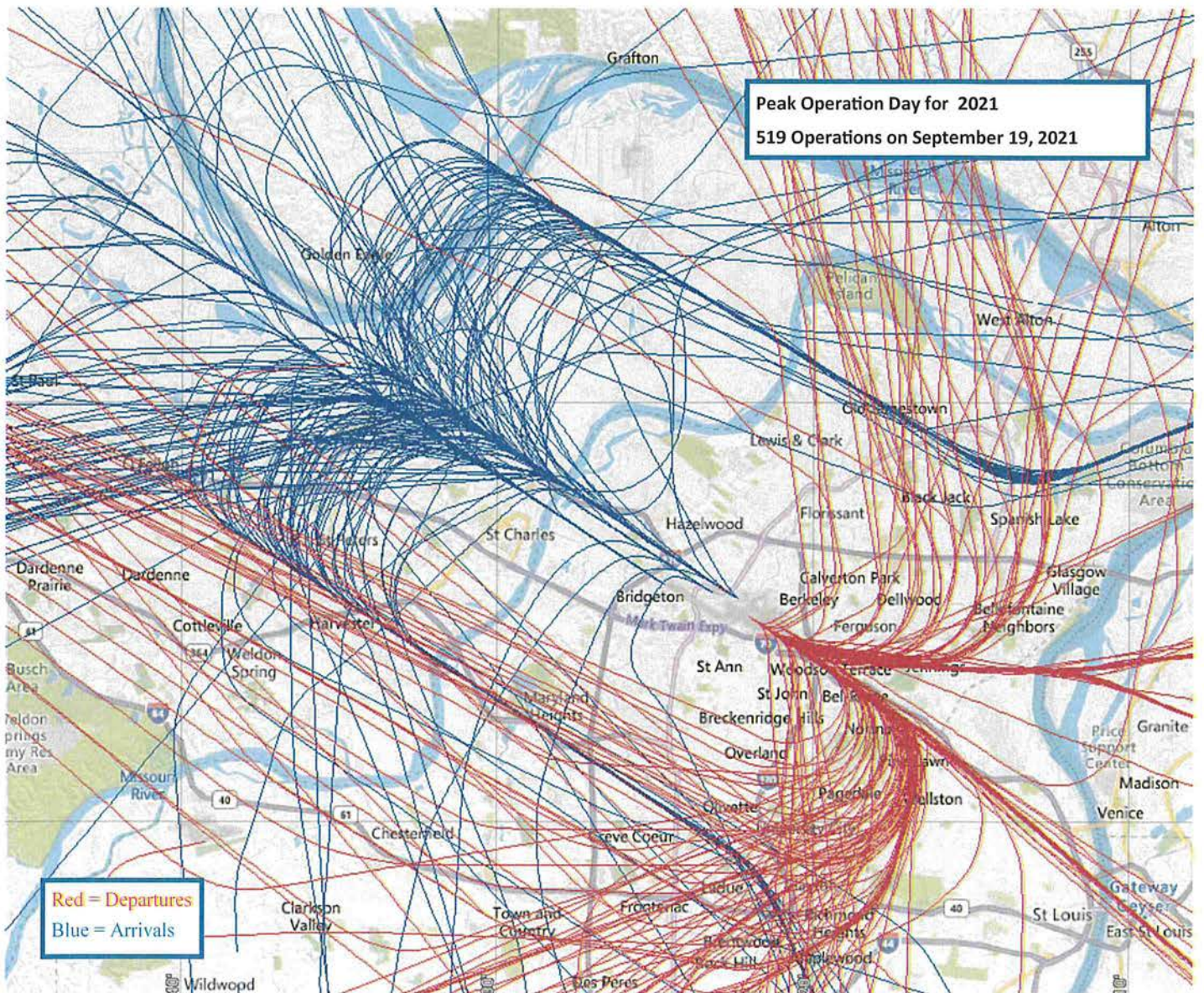




## STL Noise and Airline Traffic Report 3rd Quarter 2021

**3rd Quarter 2021**

**Peak Day Operation**



**ST. LOUIS LAMBERT  
INTERNATIONAL AIRPORT.**

**Airport Noise Management Office**  
Airport Planning & Development  
St. Louis Lambert International Airport®  
P.O. Box 10212  
St. Louis, MO 63145

**Noise Complaint Hot Line (314) 551-5070 — [noisehotline@flystl.com](mailto:noisehotline@flystl.com) — Fax: (314) 551-5013**

Publication of St. Louis Lambert International Airport Noise Management Office



# STL Airport Noise and Airline Traffic Report

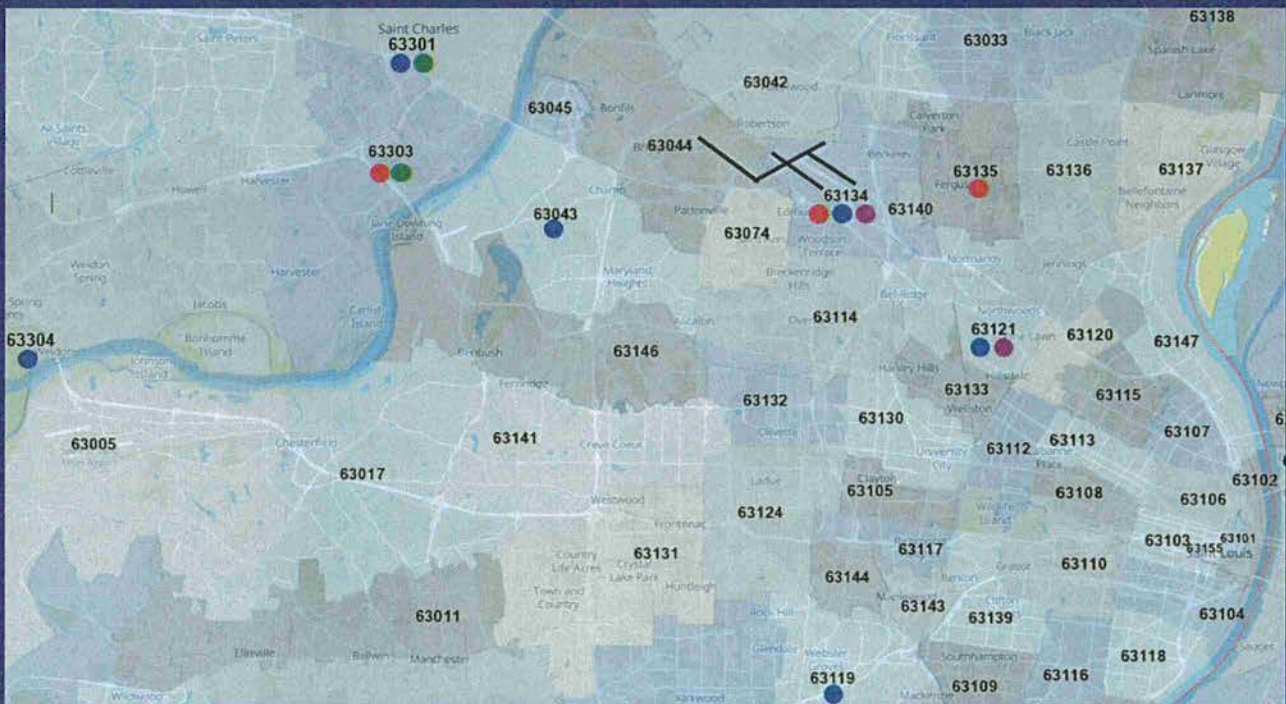
## 4th Quarter 2021

The Airport Noise and Airline Traffic Report provides the 4th Quarter 2021 summary of St. Louis Lambert International Airport's operations and noise complaints. The data in this report is from L3Harris, Inc. and not from FAA Air Traffic. This report is illustrative of trends and distribution and should not be construed as official traffic counts.

### 4TH QUARTER 2021

### NOISE COMPLAINTS

There were four noise complaints received in the 4th Quarter of 2021 compared to the eleven noise complaints in the 4th Quarter of 2020. Two complainants called about early morning aircraft over their homes interrupting their zoom meetings as they worked from home. One complainant called about being awoken from sleep by large aircraft. Three complaints were about operations that occurred during day time hours (7 a.m. to 10 p.m.) and one complaint was about aircraft that occurred during night time hours (10 pm to 7 am). Landings and take-offs (operations) during the day time hours accounted for 87.1 percent of the operations while 12.9 percent of the operations occurred during the night time period. The chart below which is a composite of all noise complaints for 2021 thus far, shows number of complaints by zip code. Not all complainant zip codes are shown on the map below because some complainants did not state where they were calling from or the their location is outside of the map boundaries below.





## STL Noise and Airline Traffic Report 4th Quarter 2021

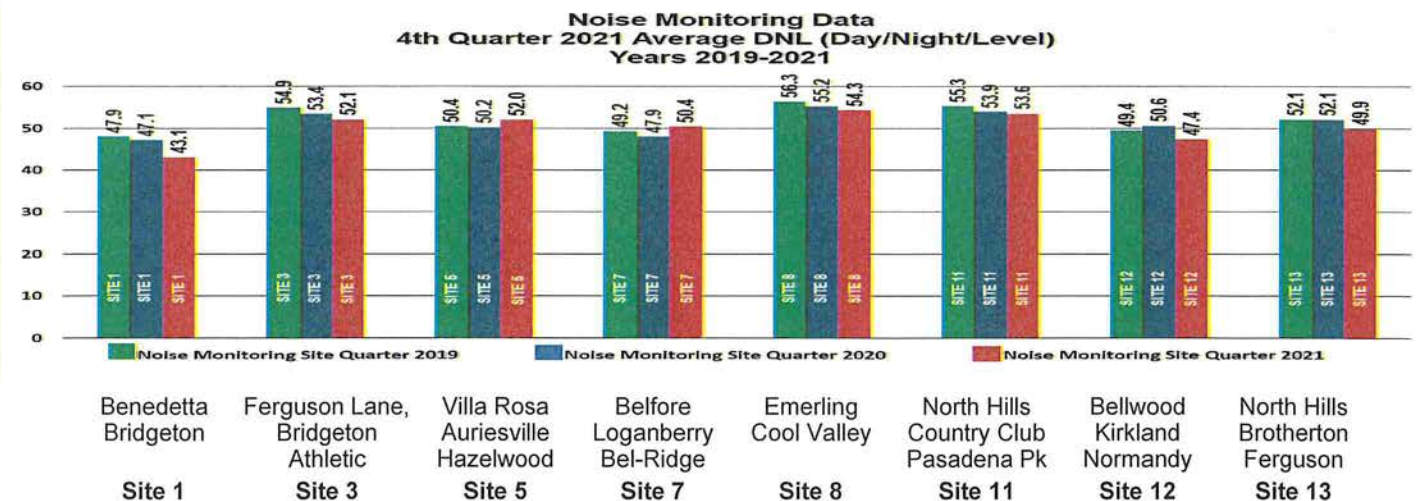
### RUNWAY IDENTIFICATION

The runways at St. Louis Lambert International Airport are: 12R/30L (11,020'x200'), 12L/30R (9,013'x150'), 11/29 (9,000'x150'), and 6/24 (7,603'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 airplane events 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.



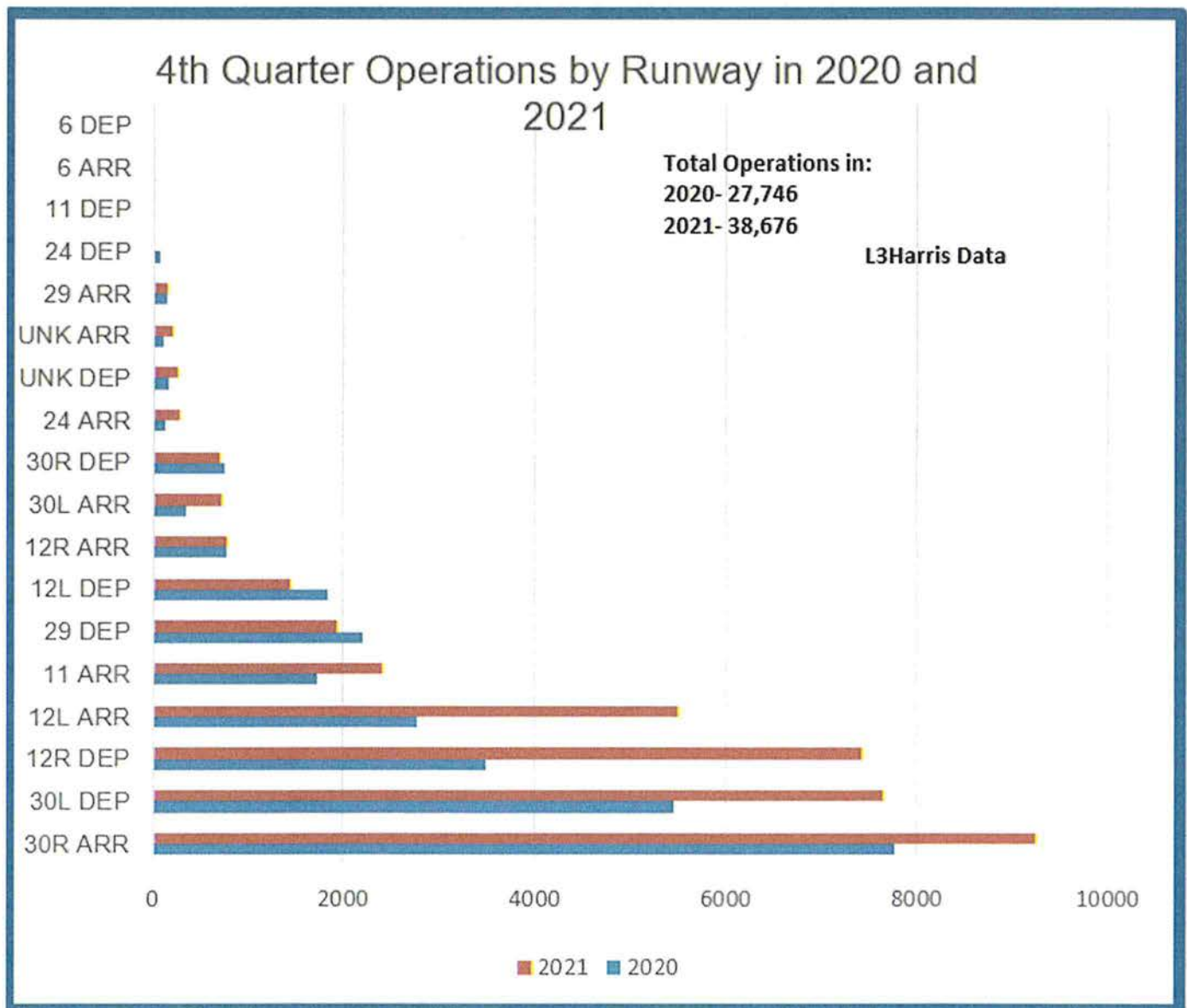


## STL Noise and Airline Traffic Report 4th Quarter 2021

### OPERATIONS BY RUNWAY

There were 38,676 operations in the 4th Quarter of 2021 compared to 27,746 operations in the 4th Quarter of 2020, an increase of 39.4 percent according to L3Harris data\*. Runway 30R was the most used runway for known arrivals at 23.9 percent (9,233) followed by Runway 12L at 14.2 percent (5,499). The most used runways for known departures was Runway 30L at 19.8 percent (7,646) followed by Runway 12R at 19.2 percent (7,425). In the 4th Quarter 2021, there were 38,216 (98.8 percent) operations in which the runway was identified and 460 operations (1.2 percent) where the runways were not identified.

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## STL Noise and Airline Traffic Report 4th Quarter 2021

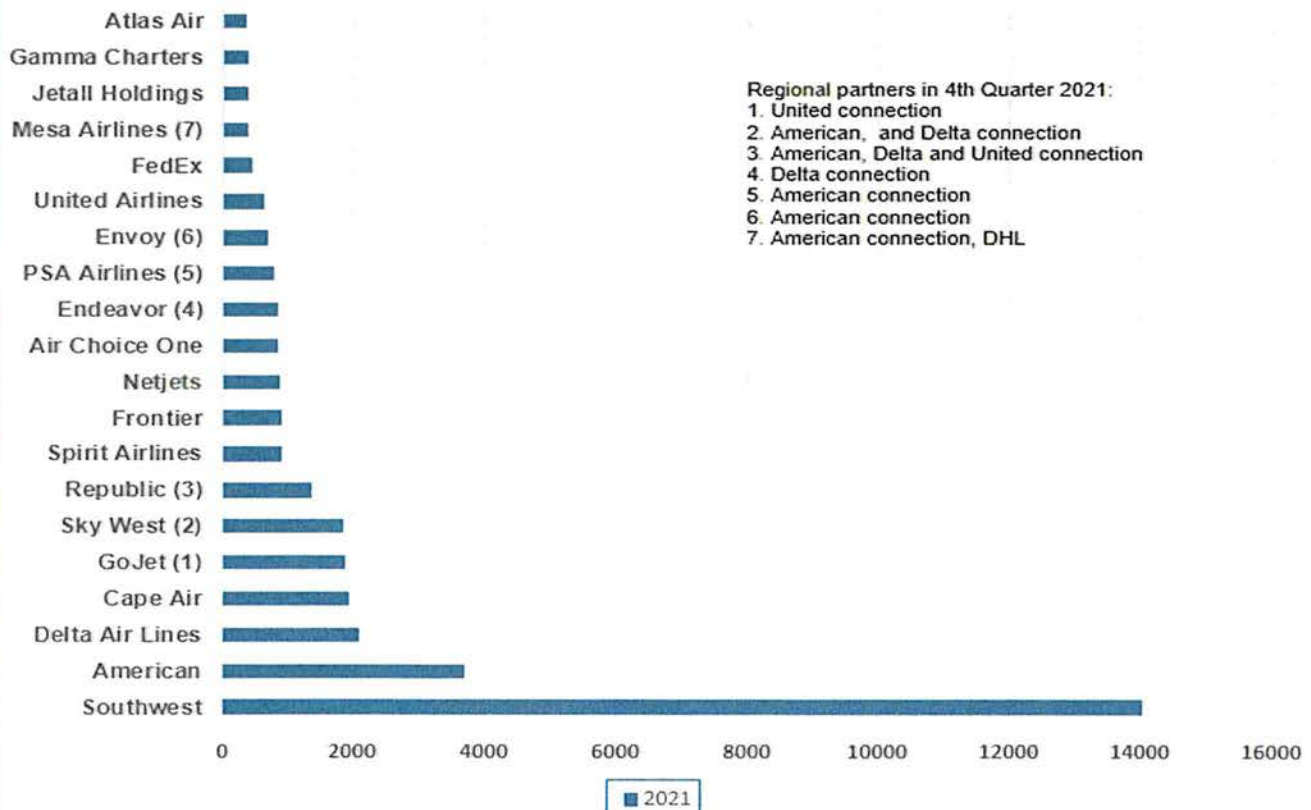
### OPERATIONS BY AIRLINE

The top 20 airlines operating at STL in the 4th Quarter 2021 include commercial passenger carriers, cargo, regional carriers, and general aviation business jet aircraft. These top 20 airlines accounted for 90.1 percent of all operations. Shown in the chart below are the top 12 Part 121 commercial passenger airlines, two Part 135 airlines (Cape Air and Air Choice One), three general aviation business charter jets (Jetall Holdings, Netjets Aviation, and Gamma Charters), and three cargo airlines (Atlas, Mesa/DHL and FedEx) for the 4th Quarter 2021. One carrier, Mesa Airlines, serves as a United Airlines connection and also contracts with DHL as a cargo provider and is counted in both the commercial passenger (98) and cargo operations (263). Its combined regional carrier operations and cargo operations ranks it #17 in the 4th Quarter 2021 in STL operations. The 4th Quarter 2021 group includes seven regional commercial passenger jet airlines. Regional carriers accounted for 17.1 percent of the operations in 4th Quarter 2021. Southwest, Spirit, and Frontier are the only major airlines that are not partnered with the regional airlines at St. Louis Lambert International Airport.

There were 64 Part 121 and Part 135 airlines that utilized the Airport during this period. Part 121 airlines are regularly scheduled carried or large US based carriers with more than 30 seats. Part 135 airlines are on demand, unscheduled carriers with less than 30 seats or commuter are carriers with less than 9 seats. Part 133 are rotocraft aircraft.

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#### Operations by the top twenty Airlines in 4th Quarter 2021





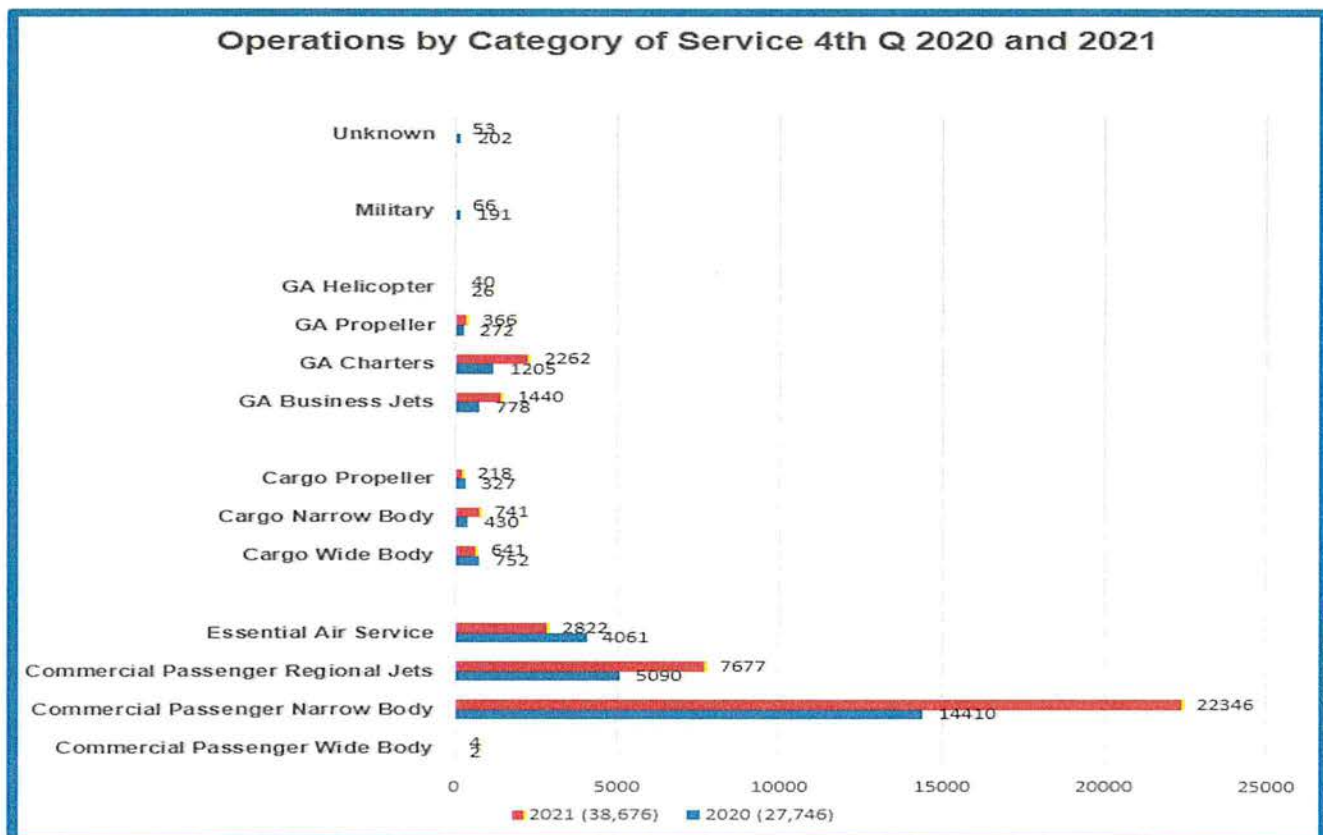
## STL Noise and Airline Traffic Report 4th Quarter 2021

### OPERATIONS BY CATEGORY OF SERVICE

Looking back at the 4th Quarter of 2021, there was an increase in operations from 4th Quarter 2020. In 2020 the pandemic was raging and many people put business and pleasure travel on hold. As in the 3rd Quarter of 2021 airline travel began to pick up with the advent of vaccines and that boosted consumer confidence to book flights to see family over the 4th Quarter holidays. Total operations in the 4th Quarter of 2021 as reported in the L3Harris data\* were up 39.4 percent, continuing the upward trend from the 3rd Quarter of 2021. Commercial narrow and widebody operations were up 41.9 percent.

Essential Air Service (EAS) declined 30.5 percent in the 4th Quarter 2021 from the same period in 2020. Contour Airlines an EAS providing service to Fort Leonard Wood, ceased operations at the end of September and EAS operations at STL. Contour provided service between STL and Fort Leonard Wood. There was an increase of 87.7 percent in GA charter operations reported by L3Harris from 4th Quarter 2020. As shown throughout 2021, people turned to the convenience of buying online and commercial cargo, used to move goods to warehouses for distribution, increased by 55.1 percent from 4th Quarter 2020. The Federal Aviation Administration has significantly filtered military operations. The Airport is working with L3Harris and other Airports across the country to obtain the military information.

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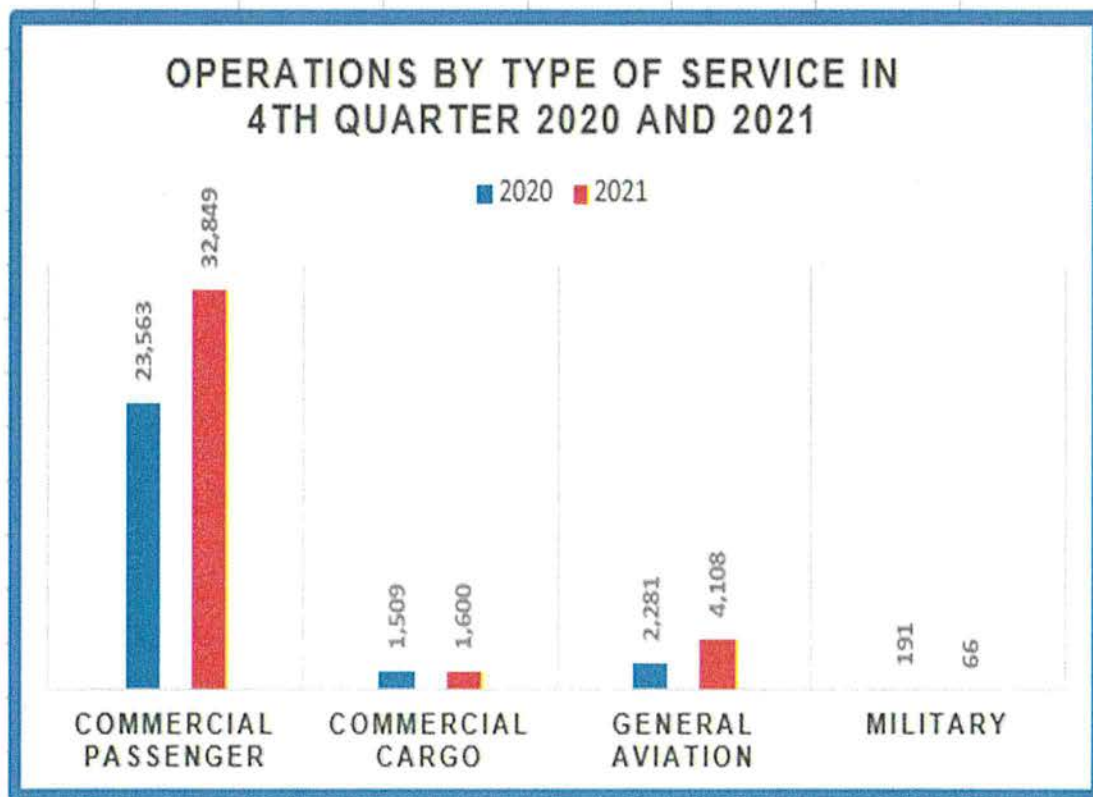


## STL Noise and Airline Traffic Report 4th Quarter 2021

### OPERATIONS BY TYPE OF SERVICE

Commercial Passenger, Commercial Cargo, General Aviation, and Military are the four categories of operations. The L3Harris data\* also includes unknown operations category for aircraft that were not identified by either the airline or aircraft equipment type, or both. Commercial passenger operations comprised 85.1 percent of the total operations in 4th Quarter 2021 as compared to 85.5 percent of the operations in the 4th Quarter 2020. L3Harris data reported operations for the general aviation category, which includes business jets, propeller, and helicopter operations at 10.6 percent as compared to 8.3 percent in 2020. In the 4th Quarter 2021, commercial cargo operations were 4.1 percent of all operations compared to 8.3 percent in 2020. Military operations are being filtered by the FAA and L3 Harris is working with the FAA to resolve the issue.

\*The L3Harris 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



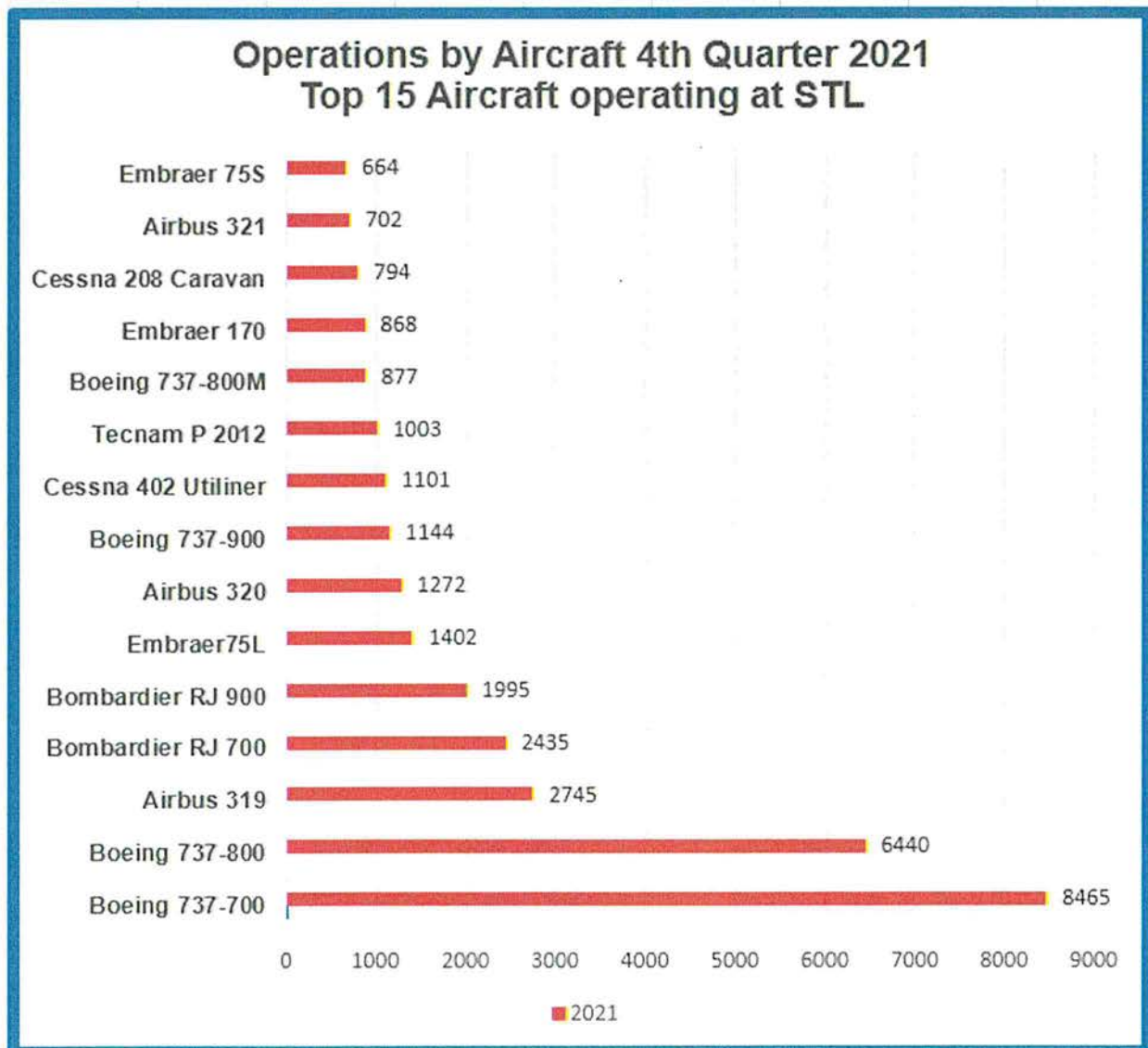


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### OPERATIONS BY AIRCRAFT

Shown below are top fifteen aircraft operating at St. Louis Lambert International Airport in the 4th Quarter 2021. In 4th Quarter 2021, the Boeing 737-700 (8,465 operations) and the Boeing 737-800 (6,440 operations) were the most utilized aircraft operating at STL. Except for changing position in the ranking based on utilization, the top fifteen aircraft remained the same from the 3rd Quarter 2021. Five of the top fifteen aircraft at the Airport are operated by regional carriers. There were 163 known aircraft types that landed at St. Louis Lambert International Airport during this period according to Harris data\*.

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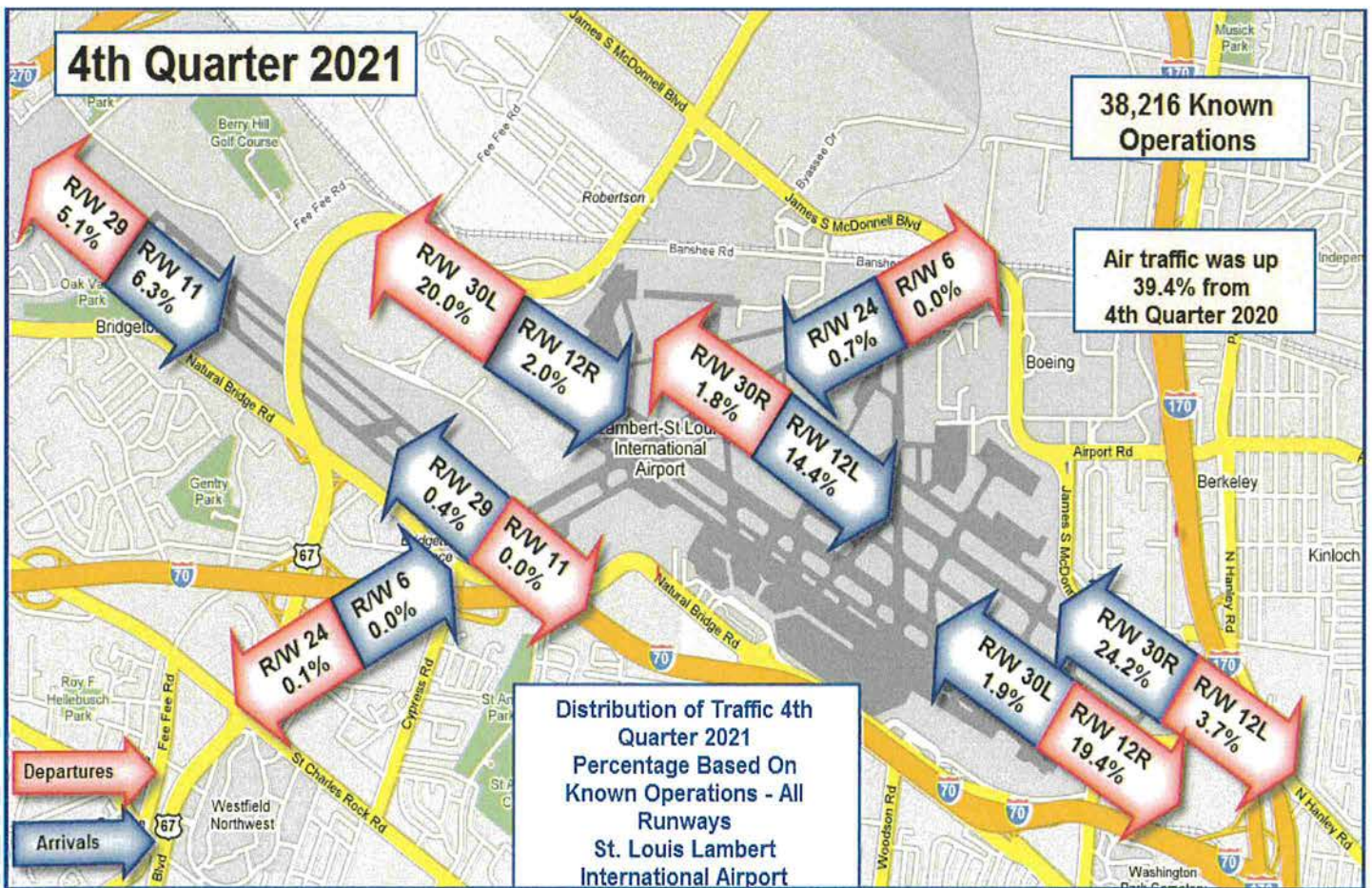


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### DISTRIBUTION OF TRAFFIC

There were 38,676 operations recorded in the 4th Quarter of 2021 compared to 27,746 operations in 4th Quarter 2020, an increase of 39.4 percent. The chart below shows the total percentages of use for known runways for this period. The most utilized runway for departures was Runway 30L (20.0 percent of known operations). The most utilized runway for arrivals was Runway 30R (24.2 percent of known operations). The crosswind runway 6-24 was the least used runway for this period. The Distribution of Traffic (Eastbound vs. Westbound ) for the 4th Quarter of 2021 was 46.3 percent eastbound and 53.7 percent westbound operations.

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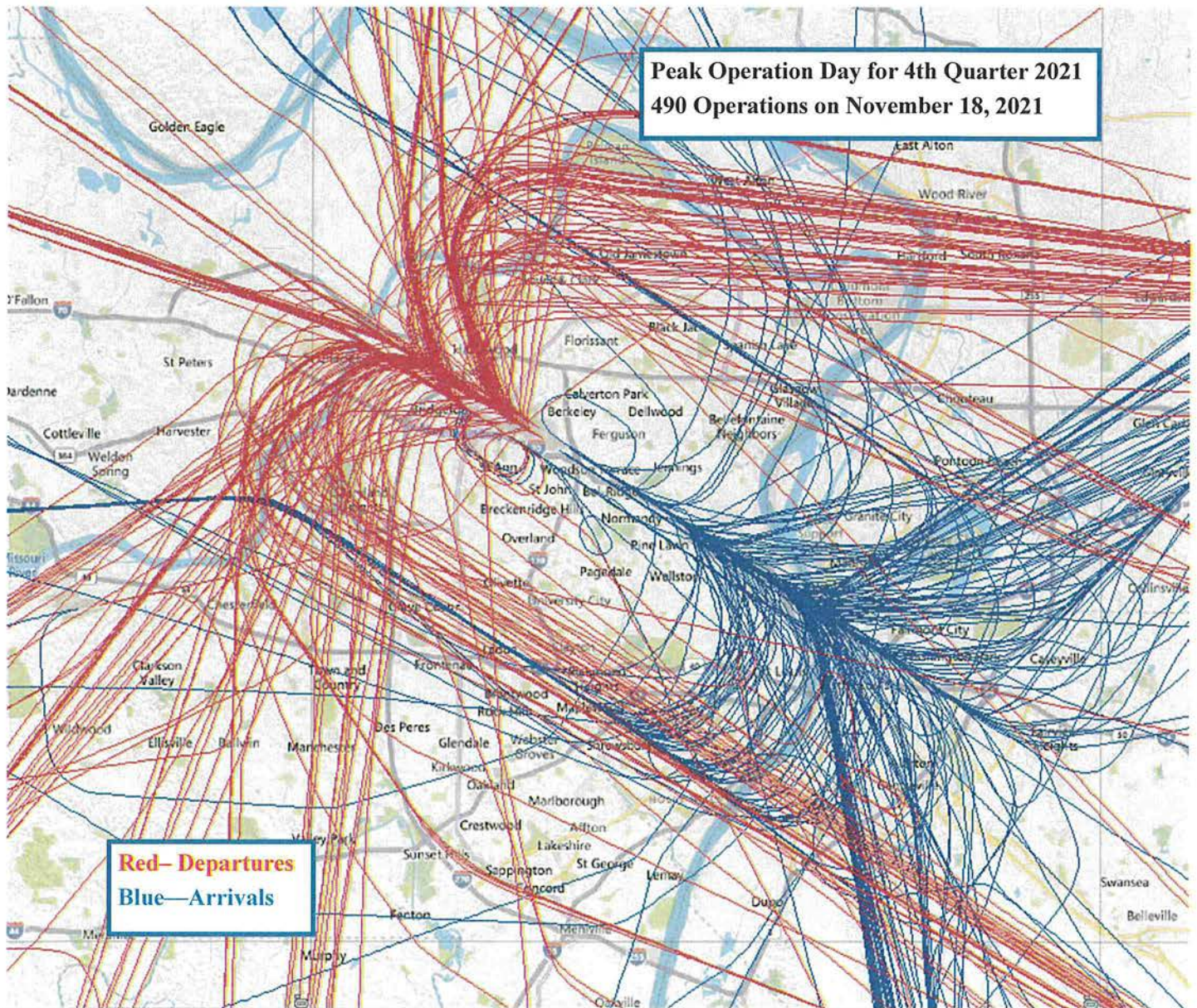


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4th Quarter 2021

Peak Day Operation

Peak Operation Day for 4th Quarter 2021  
490 Operations on November 18, 2021



ST. LOUIS LAMBERT  
INTERNATIONAL AIRPORT.

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Airport Planning & Development  
St. Louis Lambert International Airport®  
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