



2021 ANNUAL MSP FLEET MIX AND NIGHTTIME OPERATIONS REPORT

JANUARY 2022

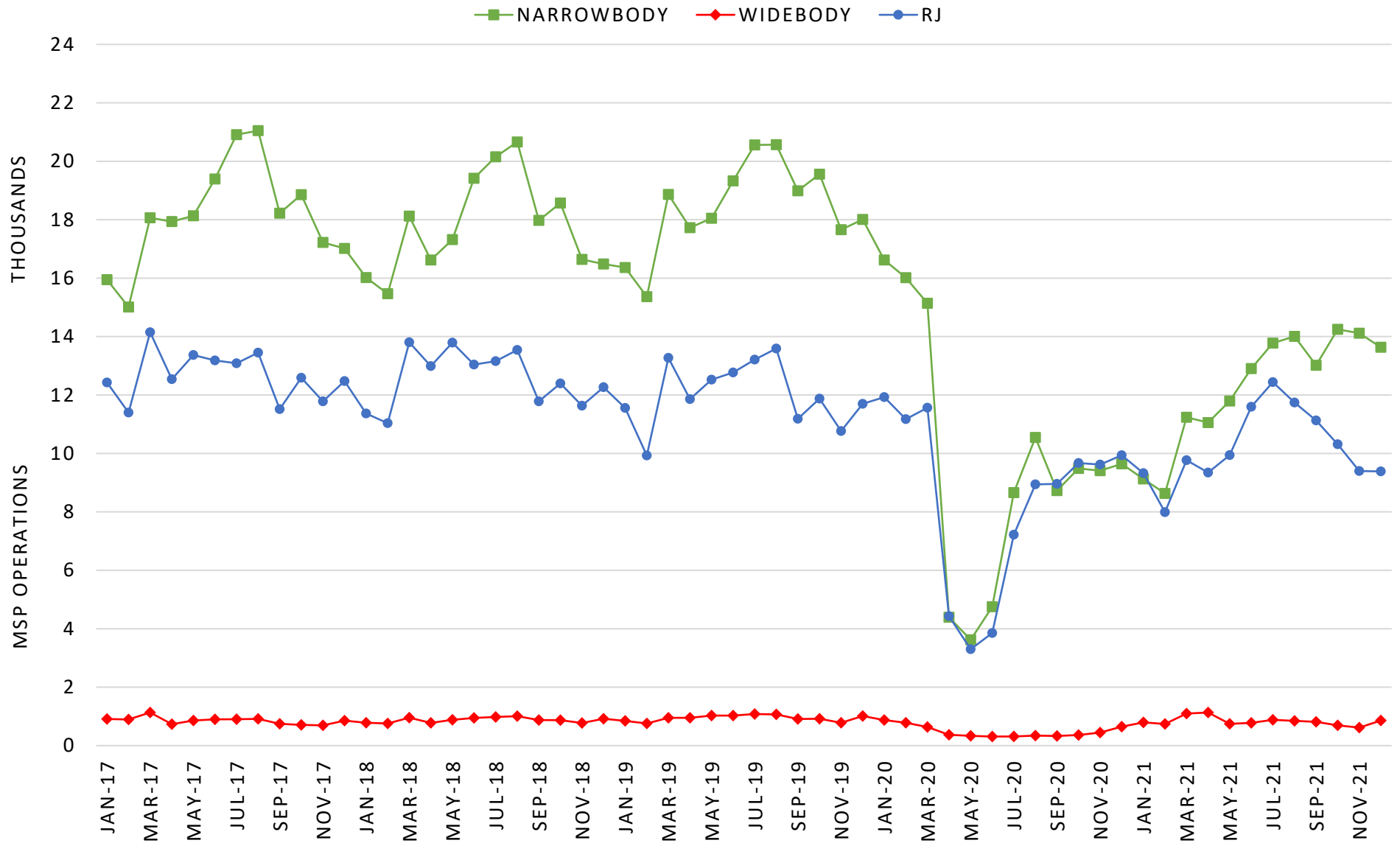
COMMUNITY RELATIONS OFFICE

2021 ANNUAL MSP FLEET MIX AND NIGHTTIME OPERATIONS REPORT

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MSP FLEET MIX REPORT

MONTHLY CARRIER JET COUNTS BY TYPE



HUSHKIT BY YEAR: 2017 - 26, 2018 - 32, 2019 - 18, 2020 - 8, 2021 - 68

MSP FLEET MIX REPORT
WIDEBODY JET ACTIVITY



WIDEBODY	TYPE	2017	2018	2019	2020	2021
	A310	0.0%	0.0%	0.0%	0.0%	0.0%
	A330	0.8%	0.7%	0.6%	0.3%	1.0%
	A340	0.1%	0.0%	0.0%	0.0%	0.0%
	A350	0.0%	0.0%	0.0%	0.1%	0.0%
	A380	0.0%	0.0%	0.0%	0.0%	0.0%
	B742	0.0%	0.0%	0.0%	0.0%	0.0%
	B744	0.0%	0.0%	0.0%	0.0%	0.1%
	B748	0.0%	0.0%	0.0%	0.0%	0.1%
	B762	0.1%	0.0%	0.0%	0.0%	0.0%
	B763	0.5%	0.8%	1.1%	1.1%	1.8%
	B764	0.0%	0.0%	0.1%	0.0%	0.2%
	B767	0.0%	0.0%	0.0%	0.0%	0.0%
	B777	0.4%	0.4%	0.5%	0.1%	0.0%
	B7878	0.0%	0.0%	0.1%	0.0%	0.1%
	DC10	0.3%	0.2%	0.0%	0.1%	0.0%
	MD11	0.5%	0.3%	0.2%	0.4%	0.2%
	Total	2.7%	2.8%	3.0%	2.6%	3.6%

MSP FLEET MIX REPORT
NARROWBODY JET ACTIVITY



NARROWBODY	TYPE	2017	2018	2019	2020	2021
	A220	0.0%	0.0%	0.3%	0.9%	2.0%
	A319	6.7%	6.4%	6.7%	7.0%	6.6%
	A20N	0.0%	0.0%	0.0%	0.3%	0.5%
	A320	7.3%	6.9%	8.1%	5.7%	6.0%
	A21N	0.0%	0.0%	0.0%	0.0%	0.0%
	A321	0.5%	2.2%	6.6%	9.6%	10.4%
	B717	5.2%	5.9%	7.8%	2.4%	0.4%
	B72Q	0.0%	0.0%	0.0%	0.0%	0.0%
	B733	0.4%	0.0%	0.0%	0.0%	0.0%
	B734	0.0%	0.0%	0.0%	0.1%	0.1%
	B735	0.0%	0.0%	0.0%	0.0%	0.0%
	B7377	5.0%	4.7%	3.8%	2.6%	2.1%
	B738	9.8%	10.1%	11.3%	10.8%	11.1%
	B739	5.0%	7.5%	8.1%	8.0%	8.7%
	B38M	0.0%	0.1%	0.0%	0.0%	0.3%
	B73Q	0.0%	0.0%	0.0%	0.0%	0.0%
	B757	5.9%	6.1%	5.1%	5.0%	4.6%
	DC9Q	0.0%	0.0%	0.0%	0.0%	0.0%
	MD80	2.5%	0.3%	0.0%	0.0%	0.0%
	MD90	8.8%	6.8%	0.6%	0.0%	0.0%
	TOTAL	57.3%	57.0%	58.7%	52.4%	52.7%

MSP FLEET MIX REPORT

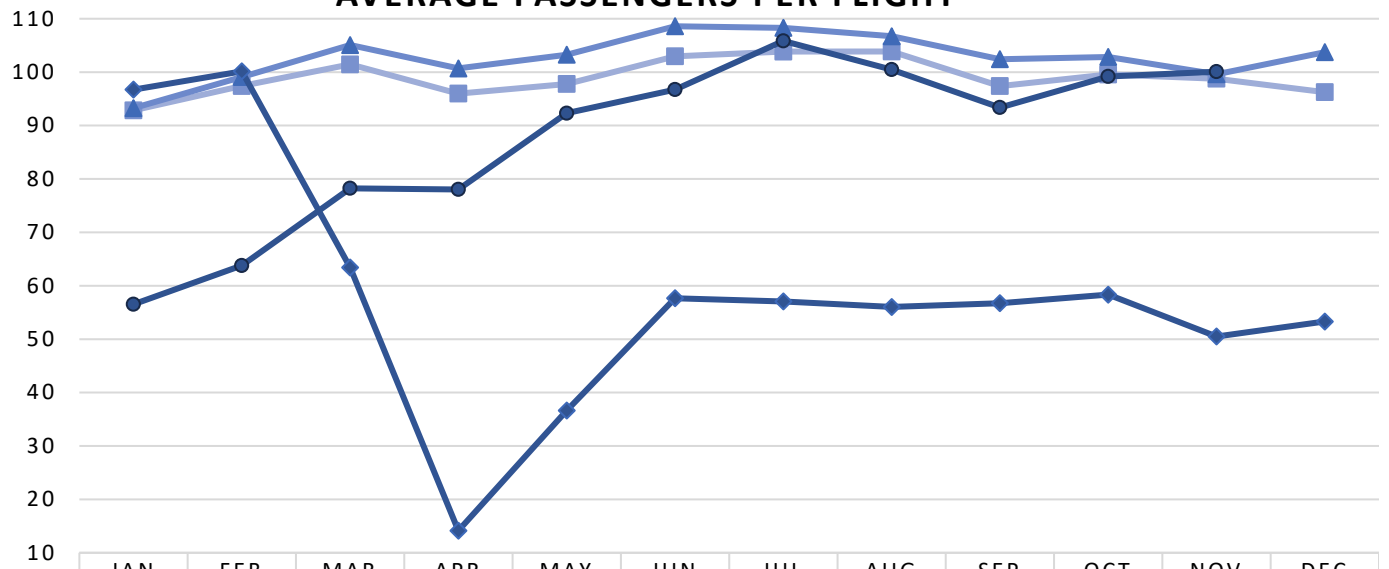
REGIONAL JET ACTIVITY



REGIONAL JET	TYPE	2017	2018	2019	2020	2021
	CRJ	0.0%	0.0%	0.0%	0.0%	0.0%
	CRJ1	0.1%	0.0%	0.0%	0.0%	0.0%
	CRJ2	16.2%	14.3%	12.9%	10.8%	11.9%
	CRJ7	4.8%	7.0%	3.9%	2.9%	2.3%
	CRJ9	11.3%	13.0%	13.8%	20.2%	21.3%
	E135	0.0%	0.0%	0.0%	0.0%	0.0%
	E145	0.1%	0.0%	0.0%	0.4%	0.2%
	E170	7.1%	5.5%	7.3%	10.6%	7.3%
	E190	0.5%	0.3%	0.4%	0.1%	0.3%
	J328	0.0%	0.0%	0.0%	0.0%	0.4%
	Total	40.0%	40.2%	38.3%	45.0%	43.7%

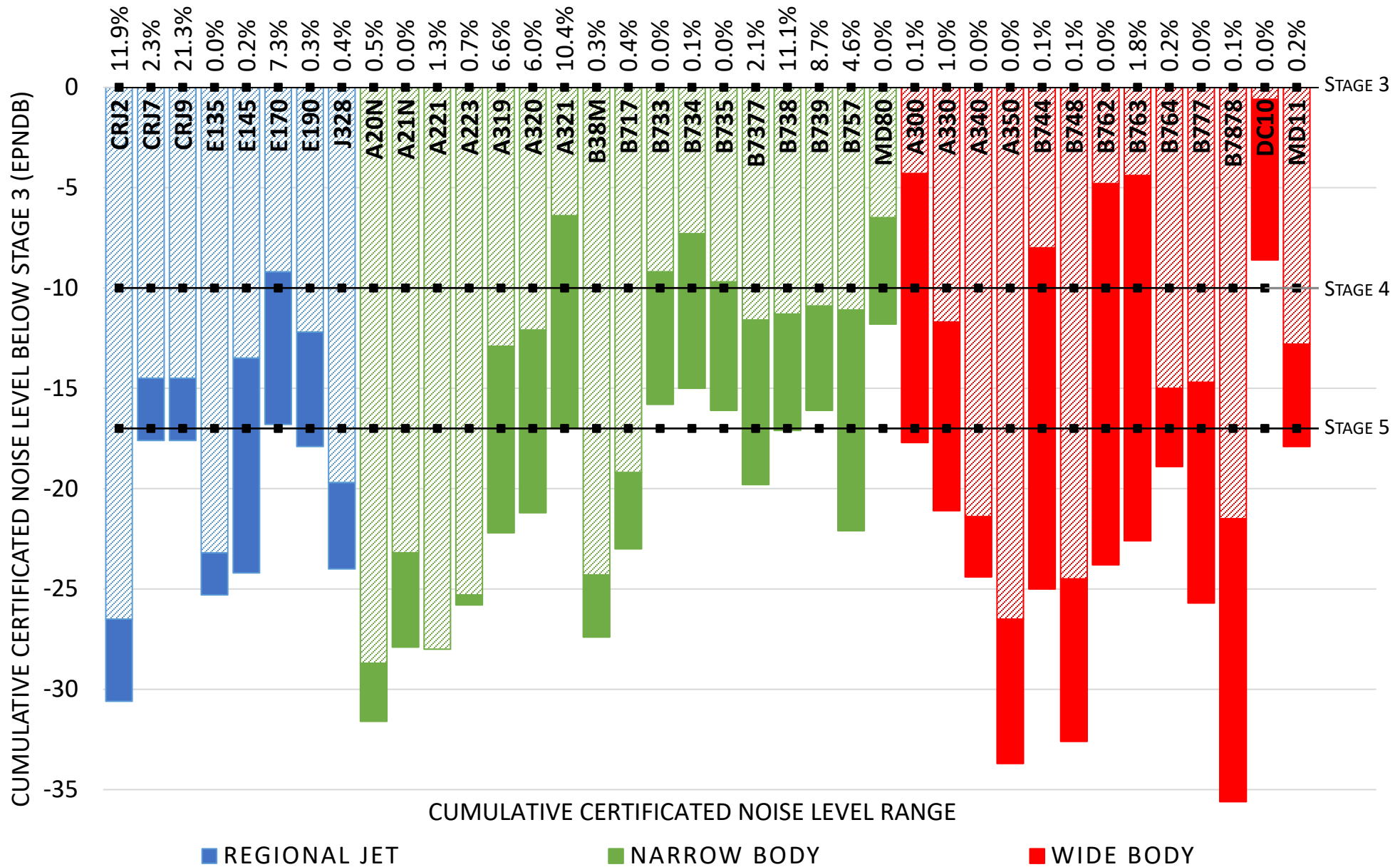
MSP FLEET MIX REPORT

AVERAGE PASSENGERS PER FLIGHT



SOURCE: MSP MONTHLY OPERATIONS REPORTS

2021 MSP CARRIER JET USAGE WITH CUMULATIVE CERTIFICATED NOISE LEVELS

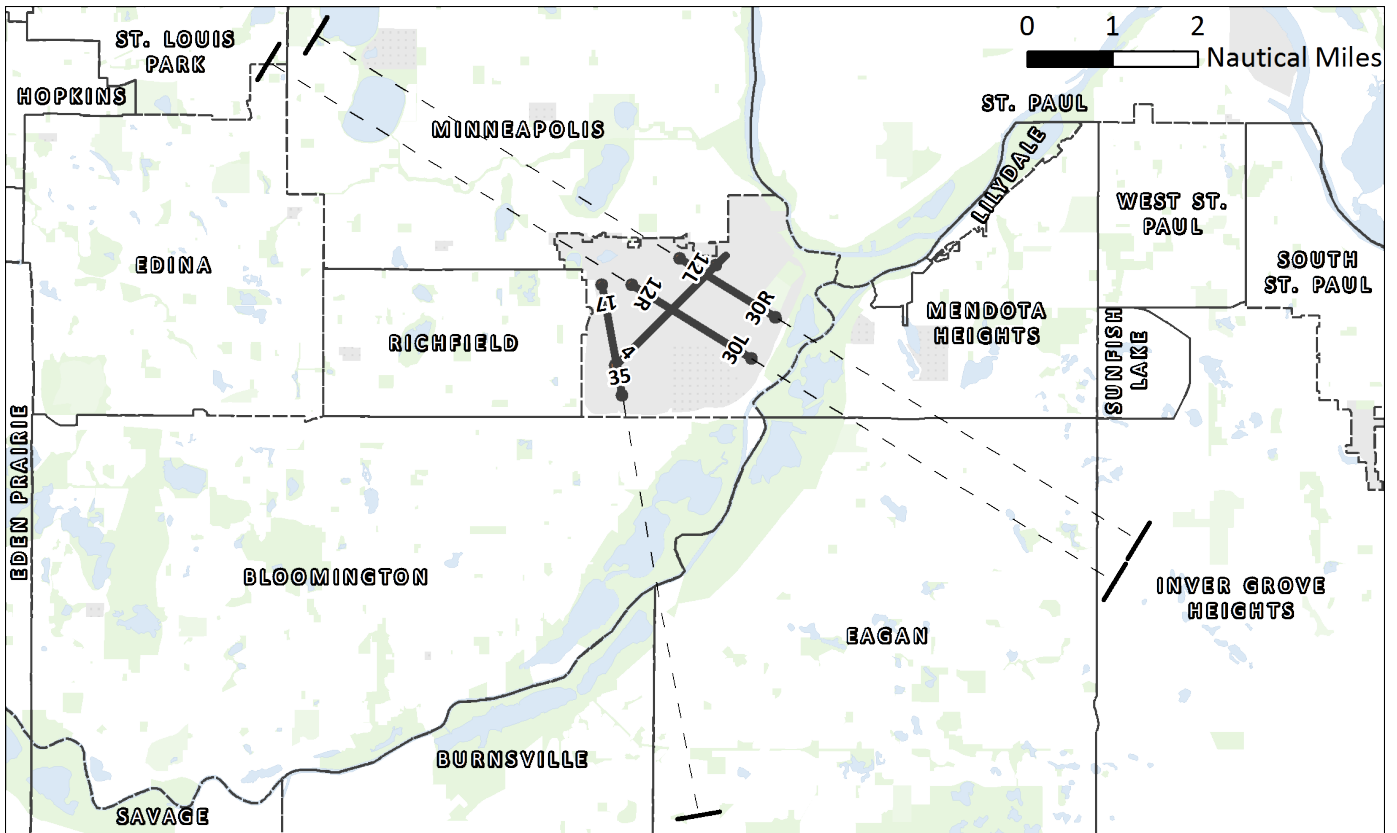
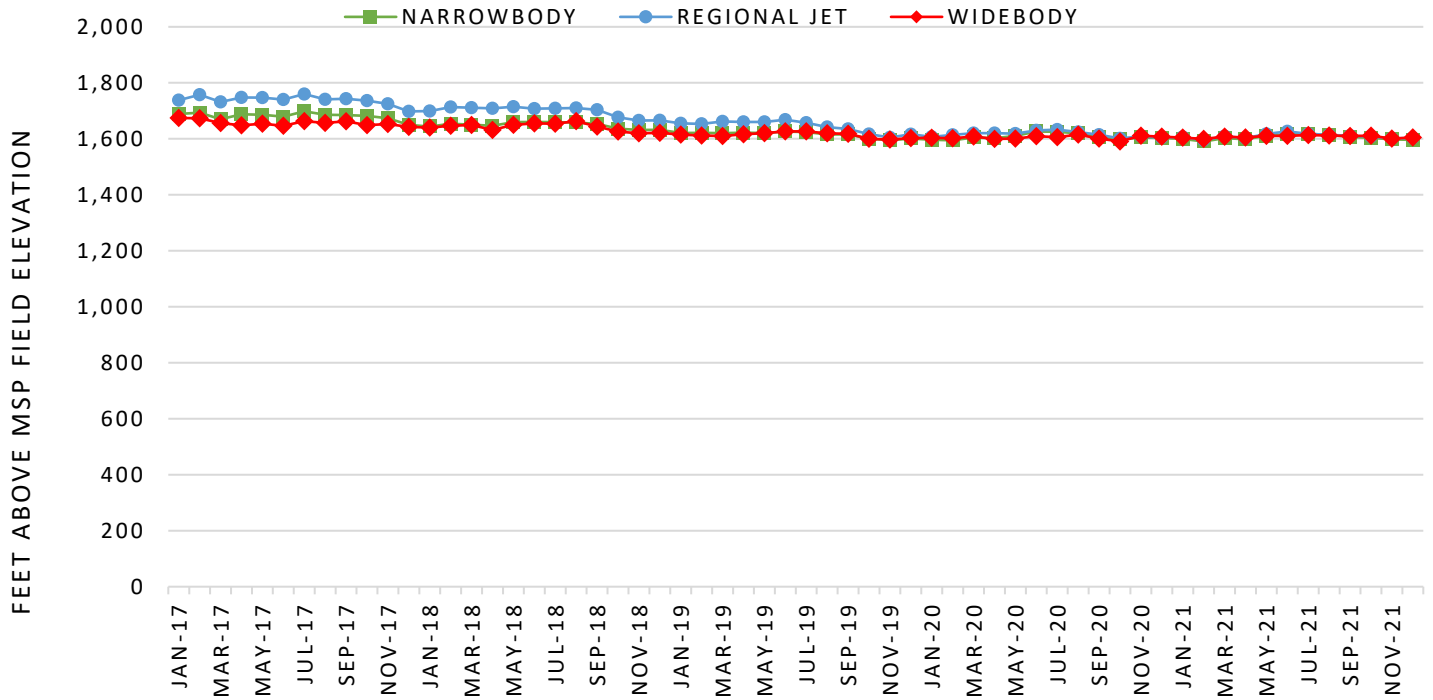


SOURCE: USAGE DATA: MACNOMS; NOISE CERTIFICATION DATA: EUROPEAN AVIATION SAFETY AGENCY

CUMULATIVE CERTIFICATED NOISE LEVELS REPRESENTED AS A RANGE TO ACCOUNT FOR MULTIPLE CERTIFICATION VARIABLES (WEIGHT, MODEL, ENGINE TYPE, AIRFRAME CONFIGURATION, ETC)

MSP FLEET MIX REPORT

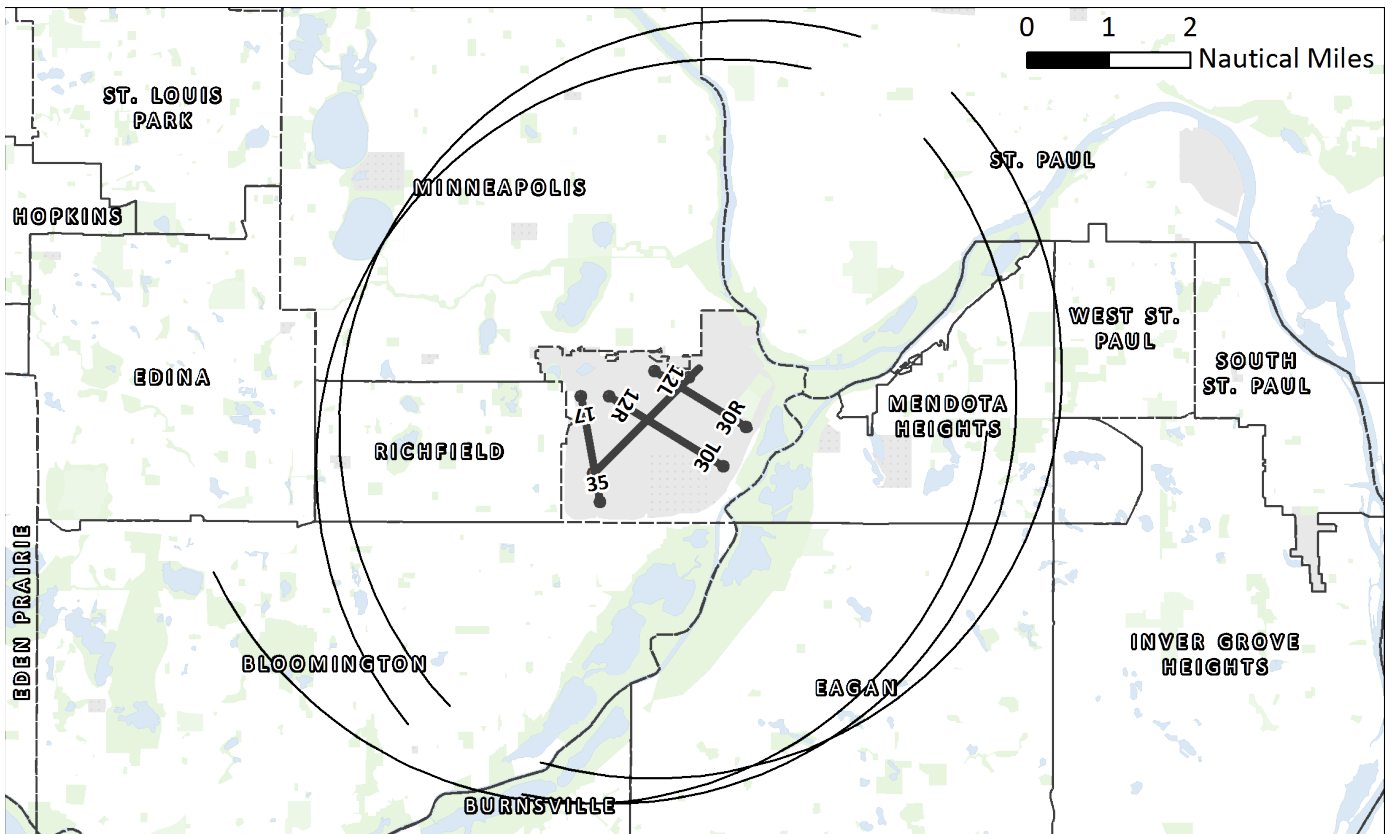
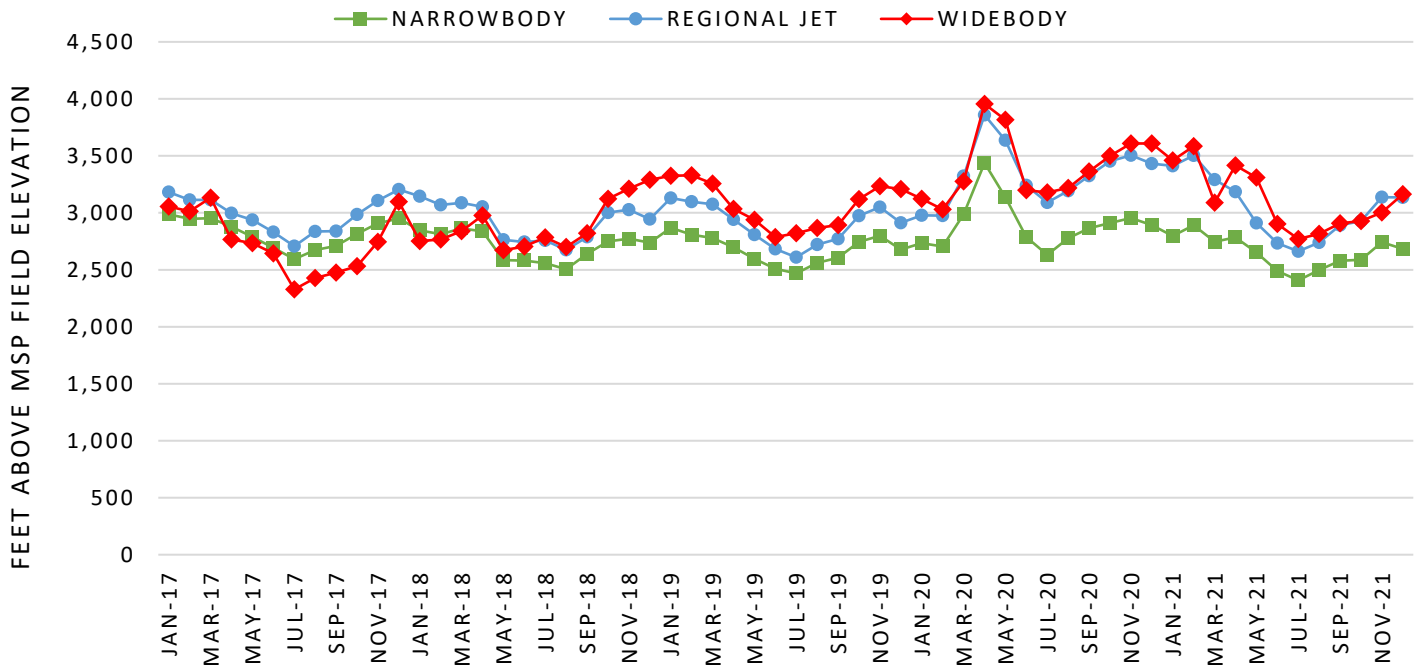
AVERAGE ALTITUDE FOR AIRCRAFT ARRIVING TO MSP



MEASUREMENT GATE IS FIVE NAUTICAL MILES FROM THE THRESHOLD OF THE ARRIVAL RUNWAY

MSP FLEET MIX REPORT

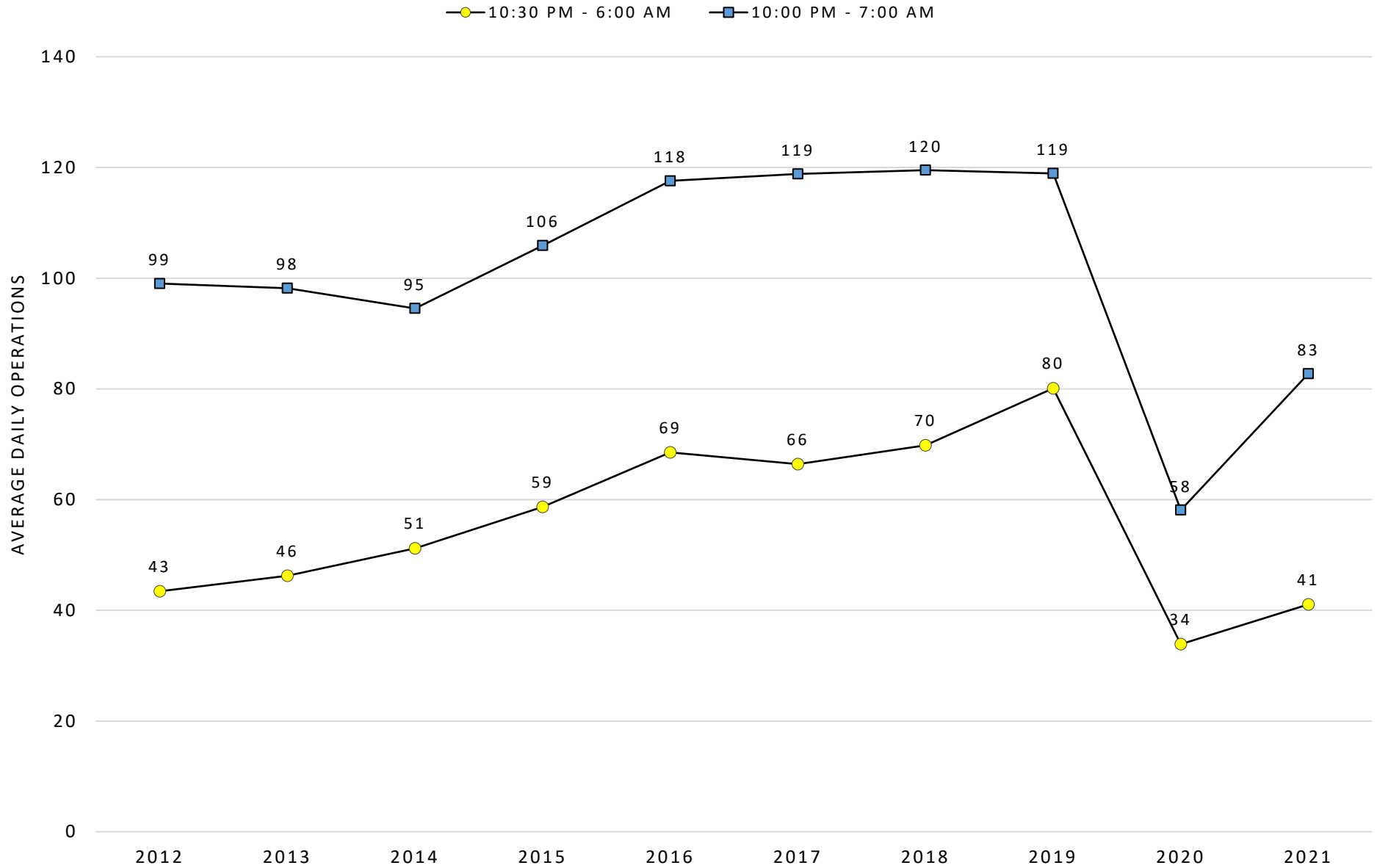
AVERAGE ALTITUDE FOR AIRCRAFT DEPARTING FROM MSP



MEASUREMENT GATE IS AN ARC FIVE NAUTICAL MILES FROM THE START OF TAKEOFF ROLL

MSP NIGHTTIME OPERATIONS REPORT

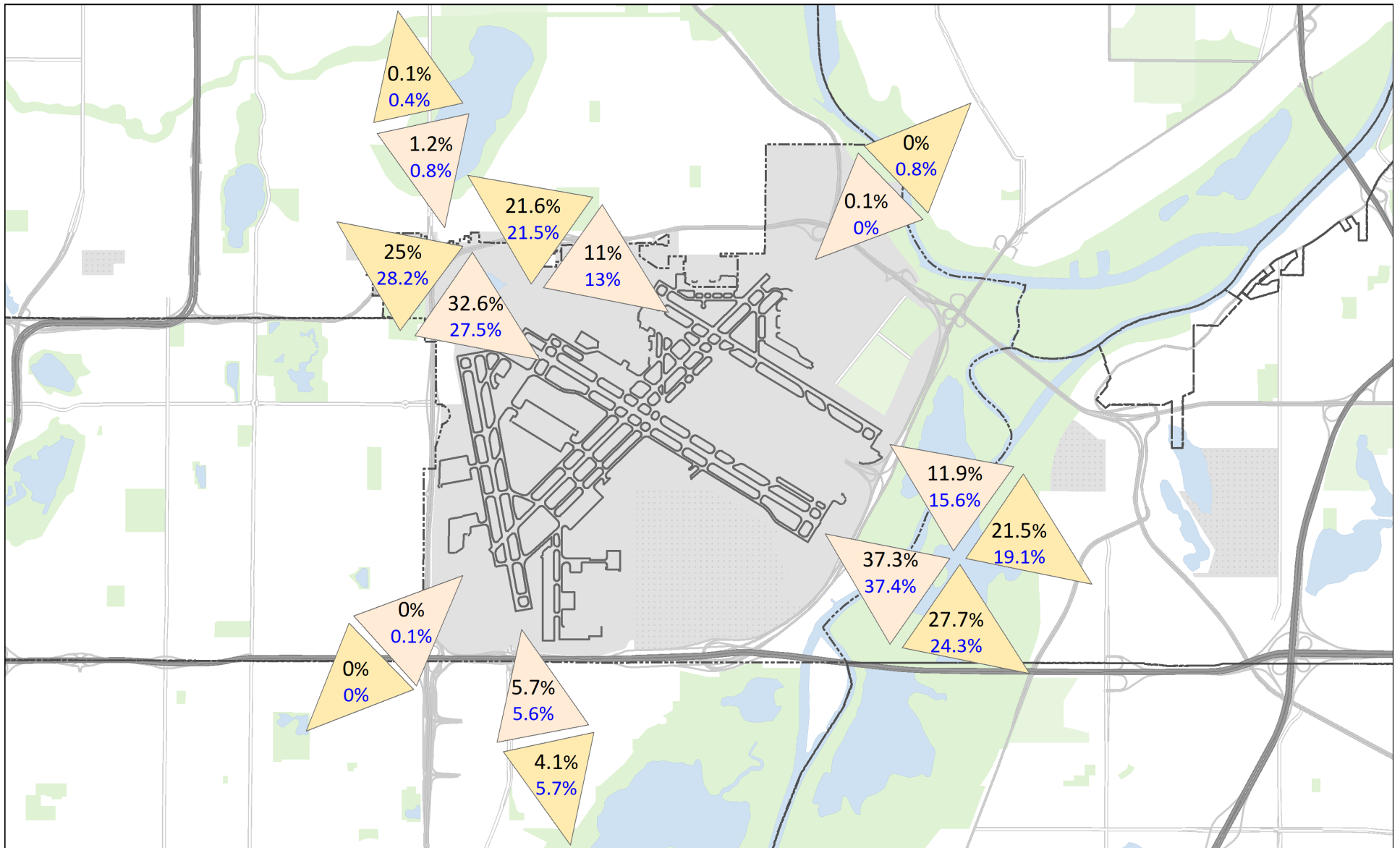
AVERAGE DAILY NIGHTTIME OPERATIONS



MSP NIGHTTIME OPERATIONS REPORT
NIGHTTIME OPERATIONS BY RUNWAY
 (10:30 PM – 6:00 AM)

			2021			2018 - 2020 AVERAGE		
RWY	ARR / DEP	OVERFLIGHT AREA	TOTAL NIGHT OPS	AVERAGE DAILY NIGHT OPS	%	TOTAL NIGHT OPS	AVERAGE DAILY NIGHT OPS	%
04	ARR	SO. RICHFIELD/BLOOMINGTON	0	0.0	0.0%	23	0.1	0.1%
12L	ARR	SO. MINNEAPOLIS/NO. RICHFIELD	1,174	3.2	11.0%	2,008	5.5	13.0%
12R	ARR	SO. MINNEAPOLIS/NO. RICHFIELD	3,473	9.5	32.6%	4,250	11.6	27.5%
17	ARR	SO. MINNEAPOLIS	133	0.4	1.2%	120	0.3	0.8%
22	ARR	ST. PAUL/HIGHLAND PARK	15	0.0	0.1%	0	0.0	0.0%
30L	ARR	EAGAN/MENDOTA HEIGHTS	3,981	10.9	37.3%	5,776	15.8	37.4%
30R	ARR	EAGAN/MENDOTA HEIGHTS	1,272	3.5	11.9%	2,414	6.6	15.6%
35	ARR	BLOOMINGTON/EAGAN	613	1.7	5.7%	865	2.4	5.6%
TOTAL NIGHTTIME ARRIVALS			10,661	29.2		15,456	42.3	
04	DEP	ST. PAUL/HIGHLAND PARK	2	0.0	0.0%	53	0.1	0.8%
12L	DEP	EAGAN/MENDOTA HEIGHTS	929	2.5	21.5%	1,319	3.6	19.1%
12R	DEP	EAGAN/MENDOTA HEIGHTS	1,199	3.3	27.7%	1,683	4.6	24.3%
17	DEP	BLOOMINGTON/EAGAN	176	0.5	4.1%	391	1.1	5.7%
22	DEP	SO. RICHFIELD/BLOOMINGTON	0	0.0	0.0%	1	0.0	0.0%
30L	DEP	SO. MINNEAPOLIS/NO. RICHFIELD	1,083	3.0	25.0%	1,953	5.3	28.2%
30R	DEP	SO. MINNEAPOLIS/NO. RICHFIELD	935	2.6	21.6%	1,485	4.1	21.5%
35	DEP	SO. MINNEAPOLIS	3	0.0	0.1%	31	0.1	0.4%
TOTAL NIGHTTIME DEPARTURES			4,327	11.9		6,916	18.8	
TOTAL NIGHTTIME OPERATIONS			14,988	41.1		22,372	61.1	

MSP NIGHTTIME OPERATIONS REPORT
NIGHTTIME OPERATIONS BY RUNWAY MAP
(10:30 PM – 6:00 AM)



MSP NIGHTTIME OPERATIONS REPORT
NIGHTTIME OPERATIONS BY AIRLINE
 (TOP 15 BY COUNT)

2021	AIRLINE	ID	COUNT	PERCENT OF AIRLINE OPERATIONS OCCURRING AT NIGHT	PERCENT OF CONTRIBUTION TO NIGHTTIME TOTAL
	DELTA	DAL	3,597	3.6%	25.1%
	SUN COUNTRY	SCX	3,214	15.6%	22.4%
	SKYWEST AIRLINES	SKW	1,632	2.3%	11.4%
	UPS	UPS	1,271	33.2%	8.9%
	AMERICAN	AAL	1,219	15.9%	8.5%
	SOUTHWEST	SWA	957	10.3%	6.7%
	FEDEX	FDX	679	19.6%	4.7%
	GULF & CARIBBEAN CARGO	TSU	367	96.8%	2.6%
	ALASKA	ASA	283	21.8%	2.0%
	ENDEAVOR AIR	EDV	281	0.7%	2.0%
	ENVOY AIR	ENY	201	12.6%	1.4%
	UNITED	UAL	194	4.0%	1.4%
	SPIRIT	NKS	179	5.2%	1.2%
	FRONTIER AIRLINES	FFT	129	11.1%	0.9%
	MESA AIRLINES	ASH	119	7.0%	0.8%

2020	AIRLINE	ID	COUNT	PERCENT OF AIRLINE OPERATIONS OCCURRING AT NIGHT	PERCENT OF CONTRIBUTION TO NIGHTTIME TOTAL
	DELTA	DAL	2,688	3.6%	23.0%
	SUN COUNTRY	SCX	2,355	16.0%	20.1%
	UPS	UPS	1,359	38.8%	11.6%
	SKYWEST AIRLINES	SKW	1,203	2.2%	10.3%
	FEDEX	FDX	725	23.8%	6.2%
	SOUTHWEST	SWA	577	6.9%	4.9%
	AMERICAN	AAL	572	8.7%	4.9%
	SPIRIT	NKS	492	14.1%	4.2%
	GULF & CARIBBEAN CARGO	TSU	366	95.8%	3.1%
	REPUBLIC AIRLINES	RPA	355	7.2%	3.0%
	ALASKA	ASA	239	18.0%	2.0%
	ATLAS AIR (USA)	GTI	223	76.6%	1.9%
	FRONTIER AIRLINES	FFT	220	17.8%	1.9%
	UNITED	UAL	191	6.4%	1.6%
	ENDEAVOR AIR	EDV	130	0.4%	1.1%

*AIRLINE OPERATIONS OCCURRING AT NIGHT REPRESENTS THE PERCENTAGE OF RESPECTIVE AIRLINE SCHEDULE THAT OCCURS AT NIGHT

*CONTRIBUTION TO TOTAL IS RESPECTIVE AIRLINE CONTRIBUTIONS TO OVERALL MSP NIGHT OPERATIONS

MSP NIGHTTIME OPERATIONS REPORT
2021 NIGHTTIME OPERATIONS BY AIRCRAFT
 (TOP 15 BY COUNT)

AIRCRAFT CODE	DESCRIPTION	COUNT	NOISE LEVEL CERTIFICATION (EPNdB BELOW STAGE 3)
B738	BOEING 737-800	4,284	11.3 - 17.1
B757	BOEING 757-200	1,841	11.1 - 22.1
A321	AIRBUS INDUSTRIES A321	1,463	6.4 - 17
CRJ9	CANADAIR REGIONAL JET CRJ-900	1,243	14.5 - 17.6
B739	BOEING 737-900	970	10.9 - 16.1
E170	EMBRAER 170	693	9.2 - 16.8
B763	BOEING 767-300	661	4.4 - 22.6
CRJ2	CANADAIR REGIONAL JET CRJ-200	658	26.5 - 30.6
B7377	BOEING 737-700	643	11.6 - 19.8
A319	AIRBUS INDUSTRIES A319	614	12.9 - 22.2
A320	AIRBUS INDUSTRIES A320	483	12.1 - 21.2
A330	AIRBUS INDUSTRIES A330	287	11.7 - 21.1
A300	AIRBUS INDUSTRIES A300	137	4.3 - 17.7
B38M	BOEING 737-8 MAX	97	24.3 - 27.4
MD11	MCDONNELL DOUGLAS MD11	94	12.8 - 17.9

NOISE CERTIFICATION DATA SOURCE: EUROPEAN AVIATION SAFETY AGENCY

CUMULATIVE CERTIFICATED NOISE LEVELS REPRESENTED AS A RANGE BELOW STAGE 3 NOISE LEVELS TO ACCOUNT FOR
 MULTIPLE CERTIFICATION VARIABLES (WEIGHT, MODEL, ENGINE TYPE, AIRFRAME CONFIGURATION, ETC)

MSP NIGHTTIME OPERATIONS REPORT
2021 NIGHTTIME OPERATIONS BY ORIGIN AND DESTINATION
 (TOP 15 BY COUNT)

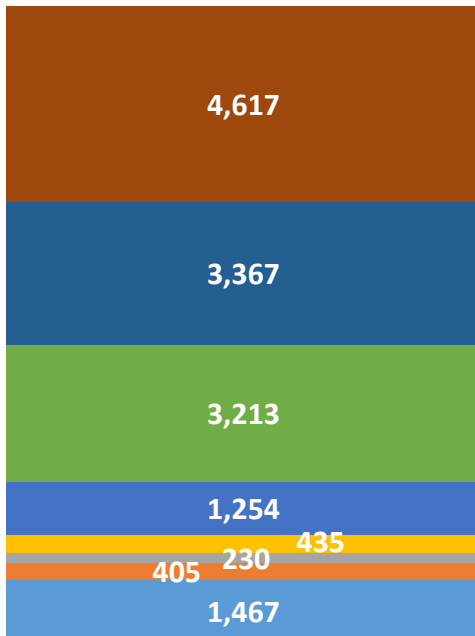
AIRPORT CODE	ORIGIN AIRPORT	COUNT
PHX	PHOENIX	1,049
LAS	LAS VEGAS	707
SEA	SEATTLE	618
DFW	DALLAS FORT WORTH	606
LAX	LOS ANGELES	471
ATL	ATLANTA	468
MEM	MEMPHIS	419
SDF	LOUISVILLE	388
DEN	DENVER	348
PDX	PORTLAND	339
SFO	SAN FRANCISCO	310
MCO	ORLANDO	303
MIA	MIAMI	283
CLT	CHARLOTTE	268
ORD	CHICAGO O'HARE	240

AIRPORT CODE	DESTINATION AIRPORT	COUNT
ATL	ATLANTA	357
FAR	FARGO	220
RAP	RAPID CITY	210
BIS	BISMARCK	201
DLH	DULUTH	199
TVF	THEIF RIVER FALLS REGIONAL	178
DEN	DENVER	177
FSD	SIOUX FALLS	176
GFK	GRAND FORKS	175
RST	ROCHESTER MN	164
LAS	LAS VEGAS	132
MIA	MIAMI	131
ONT	ONTARIO	124
PHX	PHOENIX	118
ORD	CHICAGO O'HARE	109

MSP NIGHTTIME OPERATIONS REPORT
NIGHTTIME OPERATIONS BY HOUR

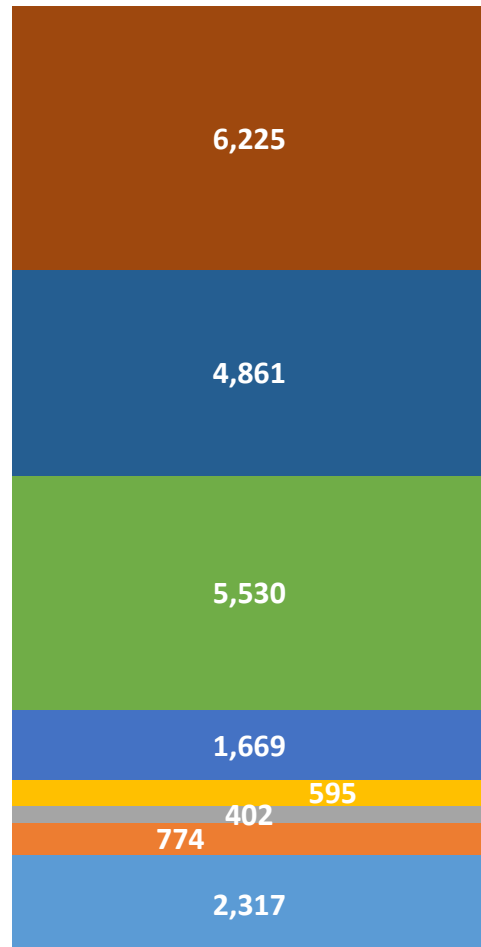
2021

0:00 1:00 2:00 3:00
4:00 5:00 22:30 23:00



**3-YEAR HISTORICAL
AVERAGE**

0:00 1:00 2:00 3:00
4:00 5:00 22:30 23:00



MSP NIGHTTIME OPERATIONS REPORT

SCHEDULED VERSUS ACTUAL OPERATIONS

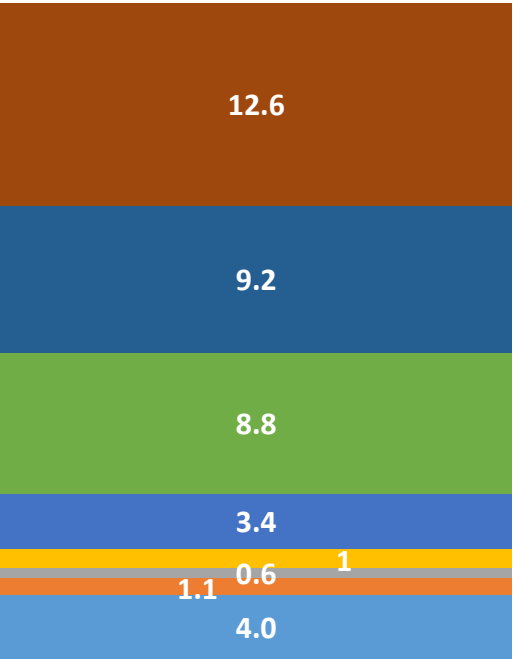
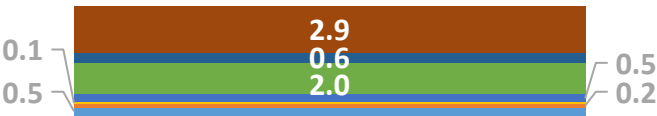
(AVERAGE BY HOUR)

DAILY SCHEDULED NIGHT OPERATIONS

0:00 1:00 2:00 3:00
4:00 5:00 22:30 23:00

DAILY ACTUAL NIGHT OPERATIONS

0:00 1:00 2:00 3:00
4:00 5:00 22:30 23:00



GENERAL AVIATION AND CHARTER AIRCRAFT OPERATORS DO NOT REPORT SCHEDULED OPERATIONS



Metropolitan Airports Commission

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