

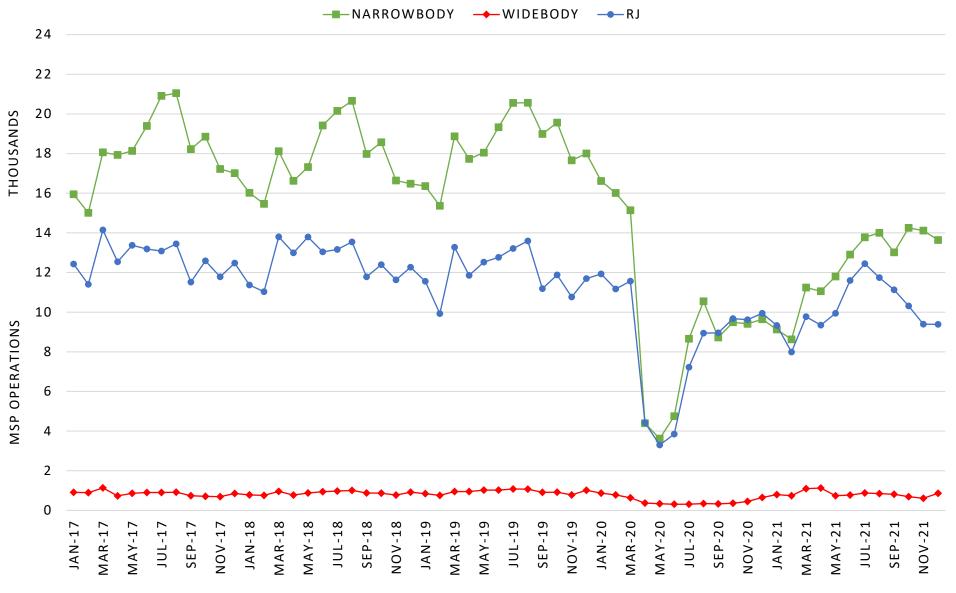
2021 ANNUAL MSP FLEET MIX AND NIGHTTIME OPERATIONS REPORT JANUARY 2022

COMMUNITY RELATIONS OFFICE

2021 ANNUAL MSP FLEET MIX AND NIGHTTIME OPERATIONS REPORT

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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



	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%
<u>></u>	B744	0.0%	0.0%	0.0%	0.0%	0.1%
B0[B748	0.0%	0.0%	0.0%	0.0%	0.1%
WIDEBODY	B762	0.1%	0.0%	0.0%	0.0%	0.0%
3	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%

NARROWBODY JET ACTIVITY

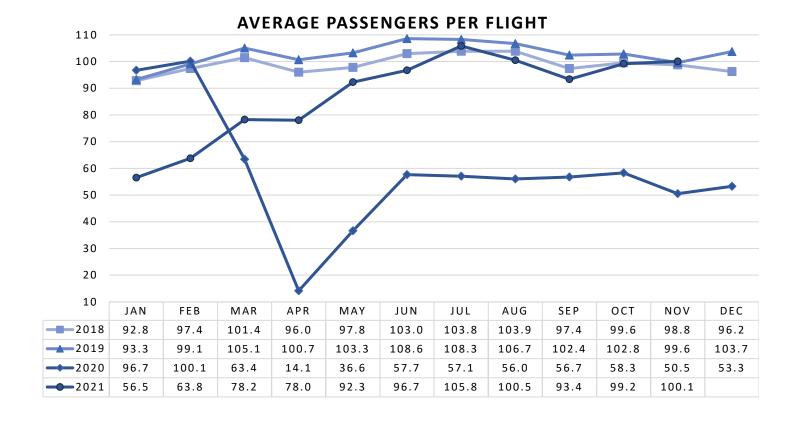


	ТҮРЕ	2017	2018	2019	2020	2021
	A220	0.0%	0.0%	0.3%	0.9%	2.0%
	A319	6.7%	6.4%	6.7%	7.0%	6.6%
	A20N	0.0%	0.0%	0.0%	0.3%	0.5%
	A320	7.3%	6.9%	8.1%	5.7%	6.0%
	A21N	0.0%	0.0%	0.0%	0.0%	0.0%
	A321	0.5%	2.2%	6.6%	9.6%	10.4%
	B717	5.2%	5.9%	7.8%	2.4%	0.4%
	B72Q	0.0%	0.0%	0.0%	0.0%	0.0%
OD	B733	0.4%	0.0%	0.0%	0.0%	0.0%
WB	B734	0.0%	0.0%	0.0%	0.1%	0.1%
NARROWBODY	B735	0.0%	0.0%	0.0%	0.0%	0.0%
IAR	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%

REGIONAL JET ACTIVITY

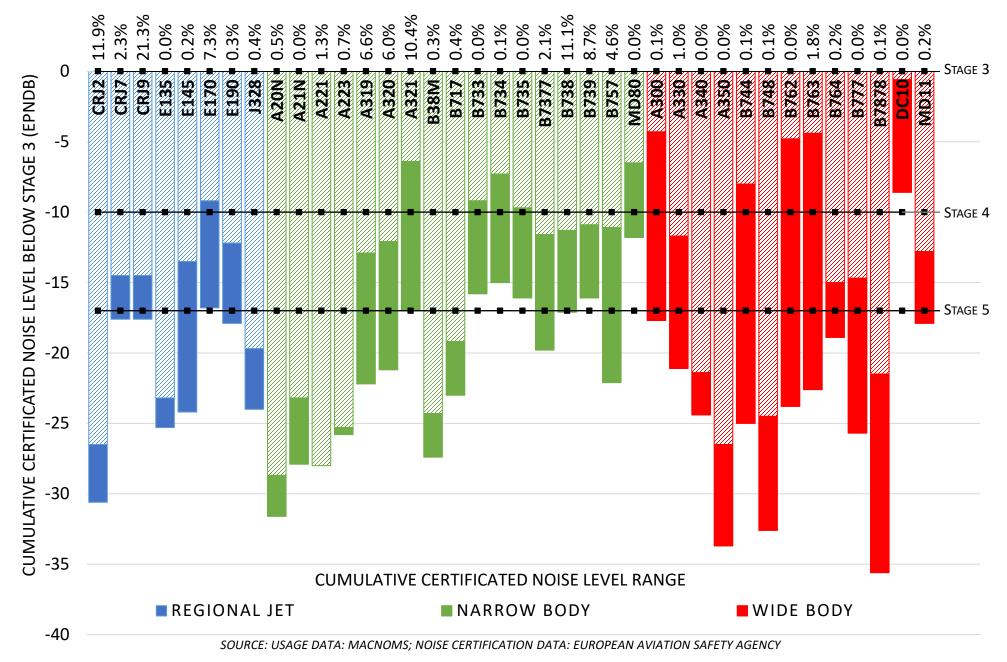


	TYPE	2017	2018	2019	2020	2021
	CRJ	0.0%	0.0%	0.0%	0.0%	0.0%
	CRJ1	0.1%	0.0%	0.0%	0.0%	0.0%
	CRJ2	16.2%	14.3%	12.9%	10.8%	11.9%
JET	CRJ7	4.8%	7.0%	3.9%	2.9%	2.3%
MAL	CRJ9	11.3%	13.0%	13.8%	20.2%	21.3%
IONA	E135	0.0%	0.0%	0.0%	0.0%	0.0%
REG	E145	0.1%	0.0%	0.0%	0.4%	0.2%
	E170	7.1%	5.5%	7.3%	10.6%	7.3%
	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%

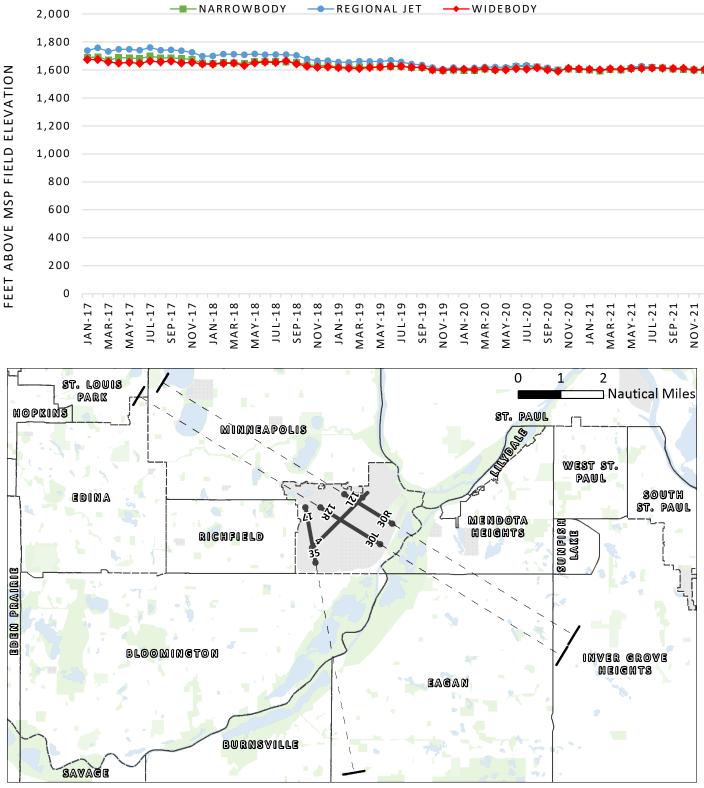


SOURCE: MSP MONTHLY OPERATIONS REPORTS

2021 MSP CARRIER JET USAGE WITH CUMULATIVE CERTIFICATED NOISE LEVELS

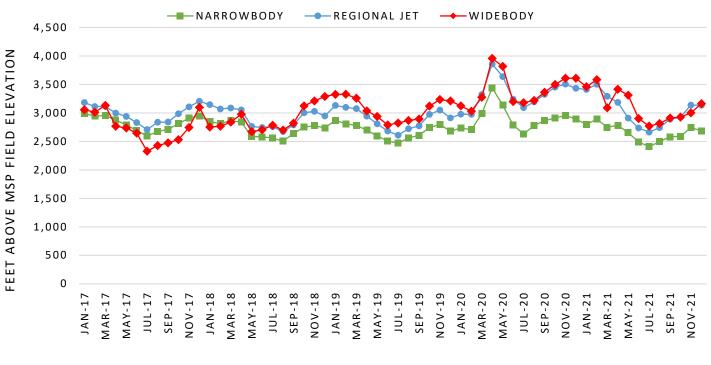


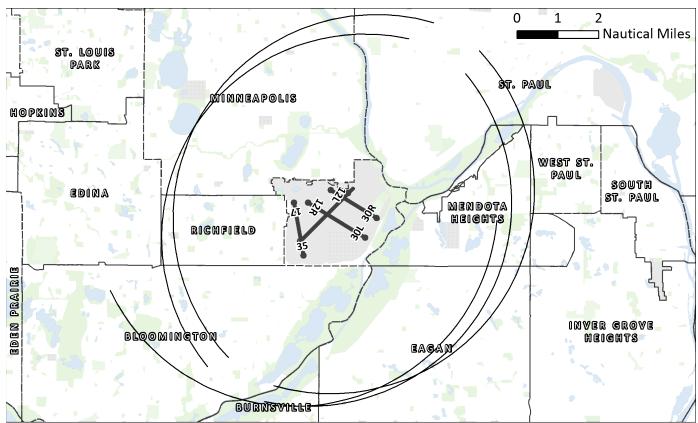
AVERAGE ALTITUDE FOR AIRCRAFT ARRIVING TO MSP



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

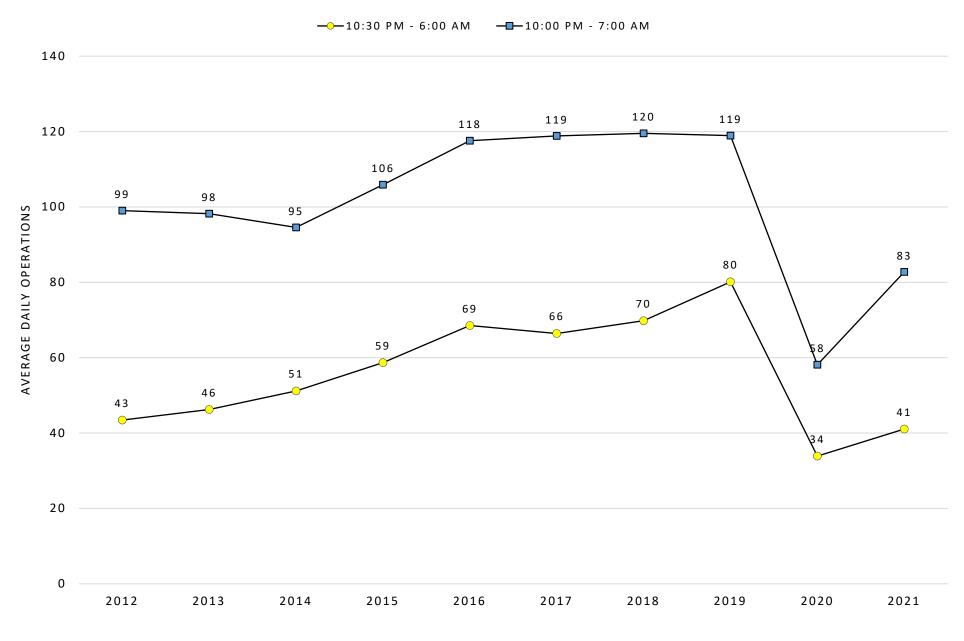
AVERAGE ALTITUDE FOR AIRCRAFT DEPARTING FROM MSP





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

AVERAGE DAILY NIGHTTIME OPERATIONS



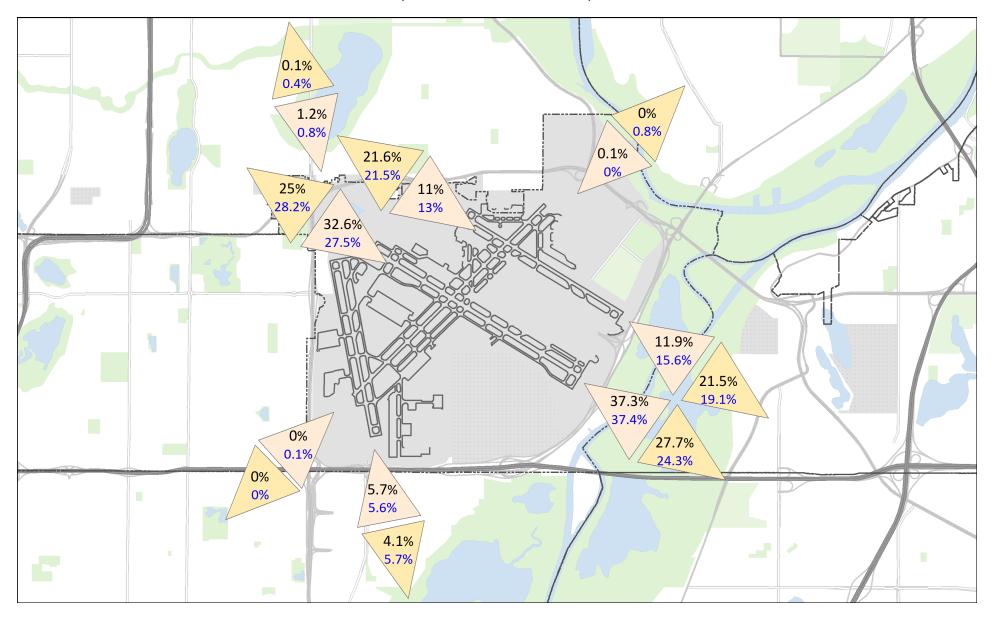
NIGHTTIME OPERATIONS BY RUNWAY

(10:30 PM - 6:00 AM)

			2021			2018	3 - <mark>2020 AVER</mark> A	IGE
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	NIGH1	TIME 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	NIGHT	TIME DEPARTURES	4,327	11.9		6,916	18.8	
TOTAL	TOTAL NIGHTTIME OPERATIONS		14,988	41.1		22,372	61.1	

NIGHTTIME OPERATIONS BY RUNWAY MAP

(10:30 PM - 6:00 AM)



NIGHTTIME OPERATIONS BY AIRLINE

(TOP 15 BY COUNT)

	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%
21	SOUTHWEST	SWA	957	10.3%	6.7%
2021	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%

	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%
2020	SOUTHWEST	SWA	577	6.9%	4.9%
20	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 REPRSENTS THE PERCENTAGE OF RESPECTIVE AIRLINE SCHEDULE THAT OCCURS AT NIGHT

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

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)

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

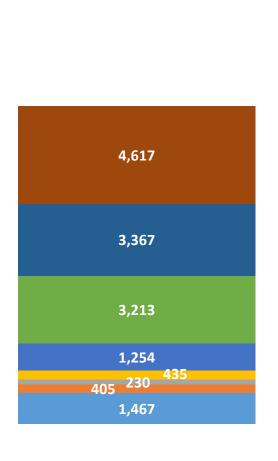
AIRPORT CODE	DESTINATION AIRPORT	COUNT
ATL	ATLANTA	357
FAR	FARGO	220
RAP	RAPID CITY	210
BIS	BISMARCK	201
DLH	DULUTH	199
TVF	THEIF RIVER FALLS REGIONAL	178
DEN	DENVER	177
FSD	SIOUX FALLS	176
GFK	GRAND FORKS	175
RST	ROCHESTER MN	164
LAS	LAS VEGAS	132
MIA	MIAMI	131
ONT	ONTARIO	124
PHX	PHOENIX	118
ORD	CHICAGO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

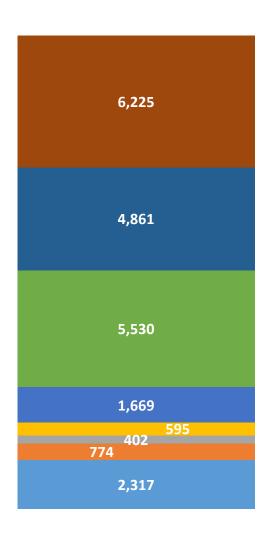
NIGHTTIME OPERATIONS BY HOUR

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





SCHEDULED VERSUS ACTUAL OPERATIONS

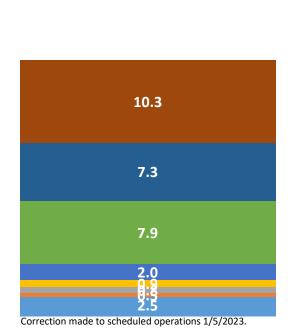
(AVERAGE BY HOUR)

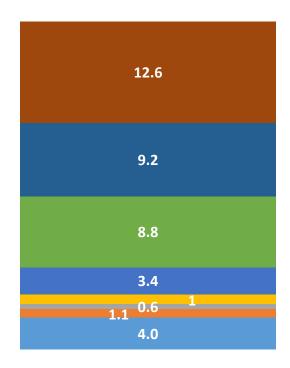
DAILY SCHEDULED NIGHT OPERATIONS

■ 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

6040 28th Avenue South, Minneapolis, MN 55450 metroairports.org

This report is for informational purposes only.