

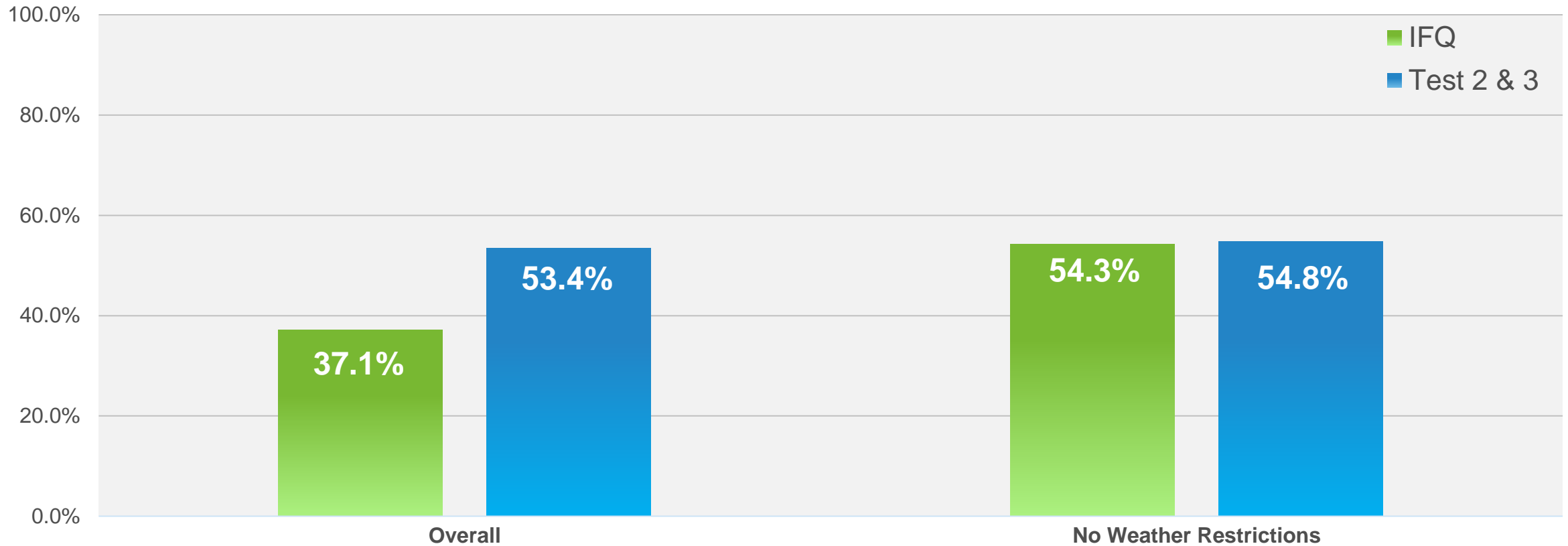
# DIAGONAL RUNWAY UTILIZATION IFQ vs. TEST 2 & 3

ONCC Technical Committee Meeting

April 14, 2020

# DIAGONAL WEEKS – RUNWAY UTILIZATION

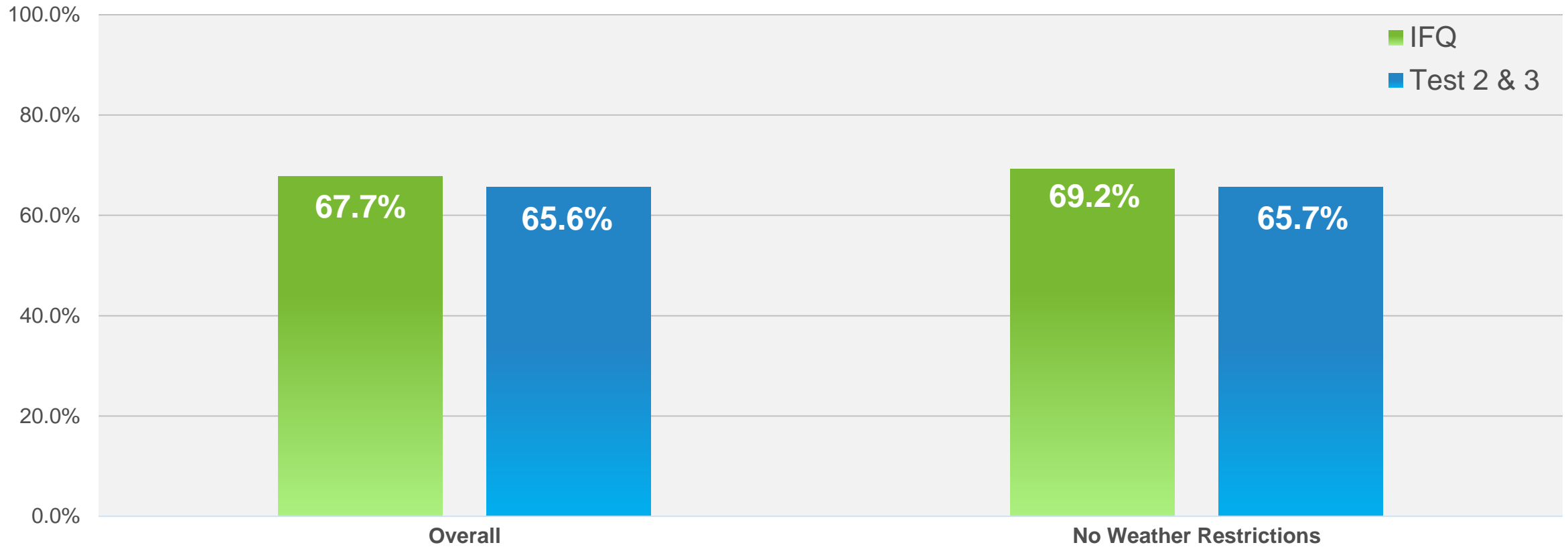
November 3, 2019 – March 22, 2020 (IFQ Week 1 –20)



IFQ data includes FQM operations during diagonal weeks (Configurations I and L) for Week 1 through Week 20.  
Test data includes FQM operations during diagonal weeks (Configurations I and L only) in Test 2 and 3.

# PARALLEL WEEKS – RUNWAY UTILIZATION

November 3, 2019 – March 22, 2020 (IFQ Week 1 –20)



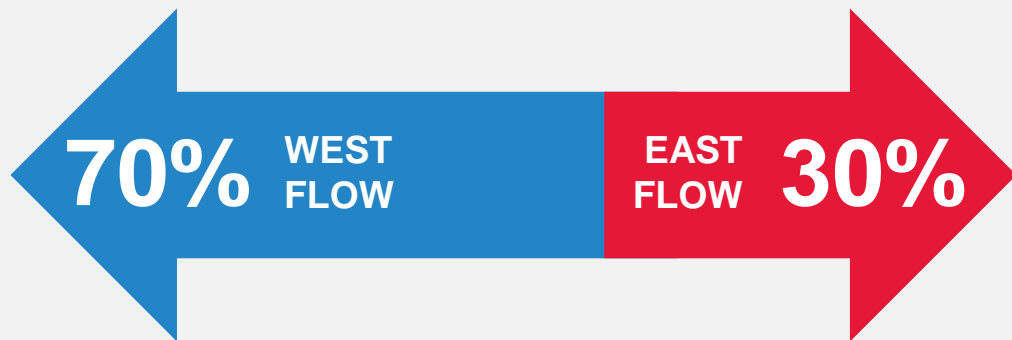
IFQ data includes FQM operations during parallel weeks (Configurations H, K, M and O) for Week 1 through Week 20.  
Test data includes FQM operations during parallel weeks (Configurations H, K, M and O only) in Test 2 and 3.

# DIAGONAL WEEKS - WEATHER

November 3, 2019 – March 22, 2020 (IFQ Week 1 –20)

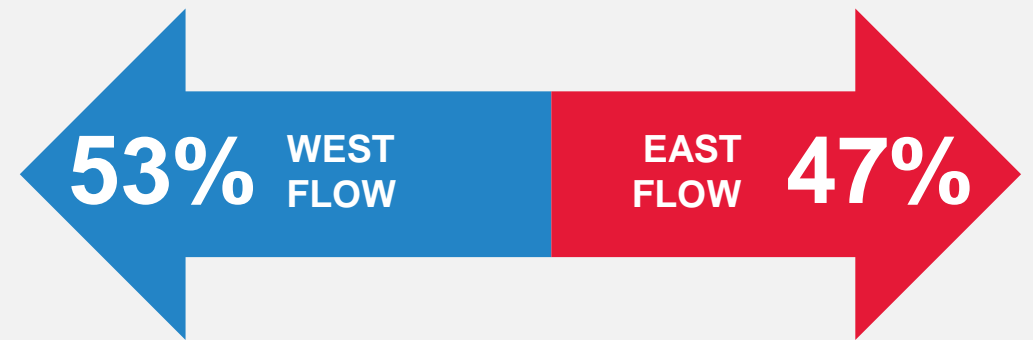
## IFQ

39% restricted due to weather



## Test 2 & 3

15% restricted due to weather



# SHORT RUNWAYS DAYTIME FLEETMIX

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# SHORT RUNWAYS - DAYTIME

November 3, 2019 – March 22, 2020 (IFQ Week 1 –20)

Aircraft	Runway 9L/27R Arrivals (7,500 ft.)	Runway 10R Arrivals (7,500 ft.)	Runway 4L Departures (7,500 ft.)
Regional Aircraft	65.7%	63.3%	36.4%
Narrow-Body Aircraft	32.7%	36.2%	60.6%
Wide-Body Aircraft	0.1%	0.3%	3.0%
General Aviation	1.5%	0.3%	--

# WIDE-BODY ARRIVALS ON SHORT RUNWAYS – DAYTIME

November 3, 2019 – March 22, 2020 (IFQ Week 1 –20)

Aircraft	Operator Type	Operation Type	Arriving From
A300	Cargo	Arrival	Louisville, KY
A330	Passenger, Cargo	Arrival	Europe
B747	Cargo	Arrival	Anchorage, AK
B767	Passenger	Arrival	Europe
B767	Cargo	Arrival	Domestic, Mexico
B777	Passenger	Arrival	Domestic
B777	Cargo	Arrival	Domestic, Europe, Asia, Middle East
B787	Passenger	Arrival	Domestic, Mexico
DC10	Cargo	Arrival	Memphis, TN

# WIDE-BODY DEPARTURES FROM RUNWAY 4L – DAYTIME

November 3, 2019 – March 22, 2020 (IFQ Week 1 –20)

Aircraft	Operator Type	Operation Type	Destination
B747	Cargo	Departure	Domestic
B777	Passenger	Departure	Hawaii, Africa, Europe
B777	Cargo	Departure	Asia
B787	Passenger	Departure	Domestic, Mexico, Hawaii, Middle East
DC10	Cargo	Departure	Memphis, TN

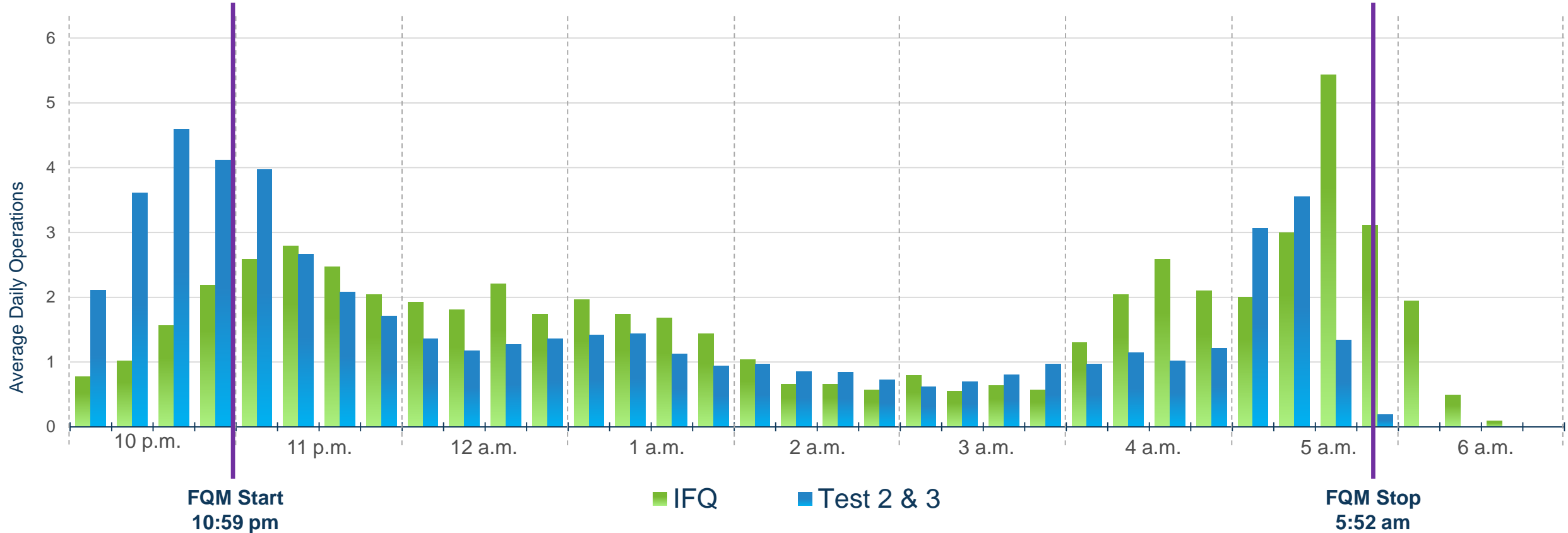


# DIAGONAL WEEKS OPERATIONS ON PARALLEL RUNWAYS

# PARALLEL RUNWAY OPERATIONS DURING DIAGONAL WEEKS

November 3, 2019 – February 23, 2020 (IFQ Week 1 –16)

Average FQM Operations on Parallel Runways by Hour



# DIAGONAL WEEKS PARALLEL RUNWAYS FQM FLEETMIX

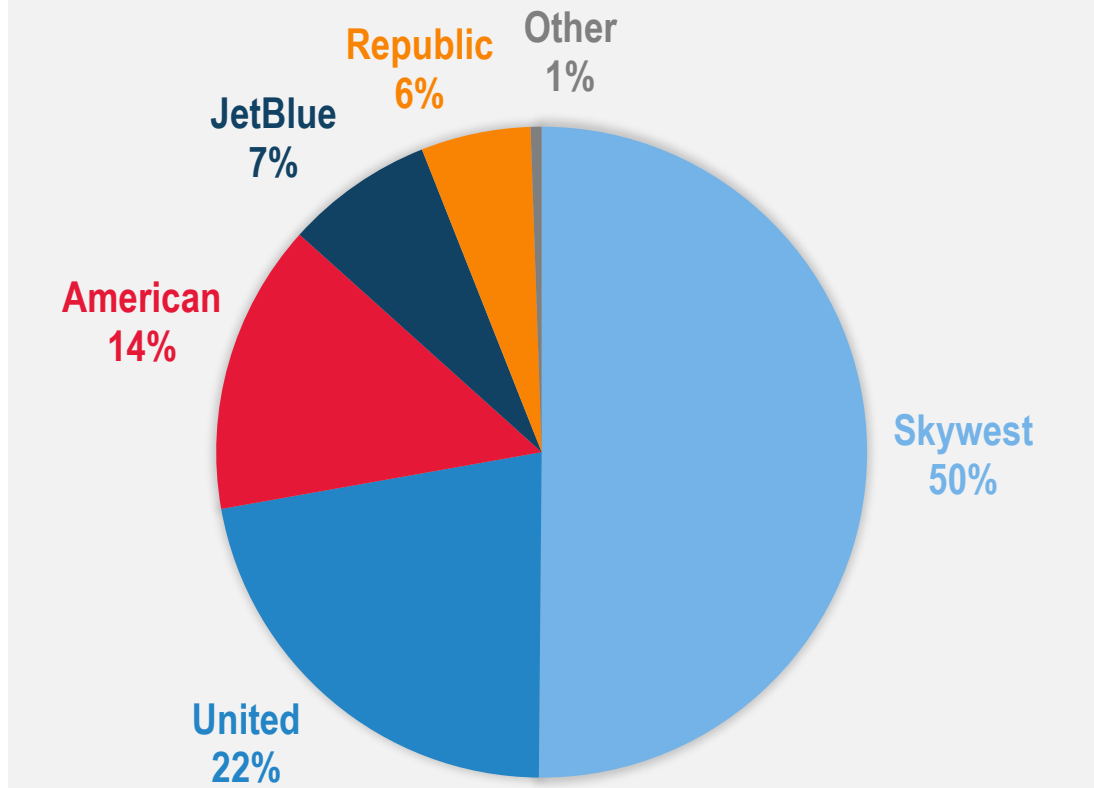
November 3, 2019 – February 23, 2020 (IFQ Week 1 –16)

Aircraft	FQM Operations	FQM Operations No Weather Restrictions
Regional Aircraft	17.2%	16.3%
Narrow-Body Aircraft	49.6%	42.9%
Wide-Body Aircraft	32.8%	40.4%
General Aviation	0.4%	0.4%

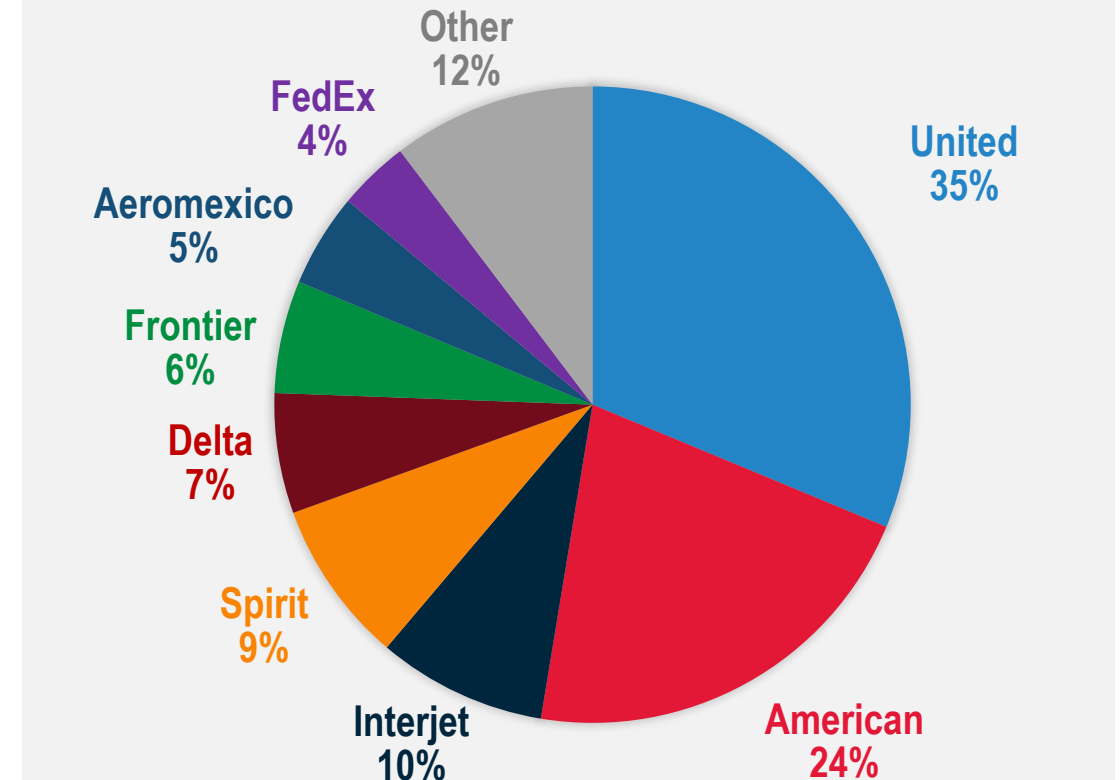
# DIAGONAL WEEKS PARALLEL RUNWAYS FQM FLEETMIX

November 3, 2019 – February 23, 2020 (IFQ Week 1 –16)

## Regional Aircraft



## Narrow-Body Aircraft



## CONCLUSION

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- Diagonal Runway utilization impacted by weather during winter months.
- Some Wide-body aircraft can use shorter runway lengths.
- Recommend outreach to airlines to improve IFQ utilization.



**CHICAGO DEPARTMENT OF AVIATION** 

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**JAMIE L. RHEE, COMMISSIONER**

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