PORT AUTHORITY NY NJ
AIR LAND RAIL SEA

Runway Utilization Report – September 2026

John F. Kennedy International Airport (JFK)
LaGuardia Airport (LGA)
Newark Liberty International Airport (EWR)
New York Stewart International Airport (SWF)
Teterboro Airport (TEB)

Port Authority Airports

The Port Authority of New York and New Jersey operates five airports, including three major hub airports, two of which are in the top 15 busiest airports in the United States by passenger traffic, and serve almost 150 million passengers every year. The Port Authority is the operator of the largest airport system in the United States, including John F. Kennedy International Airport (JFK), LaGuardia Airport (LGA), Newark Liberty International Airport (EWR), New York Stewart International Airport (SWF), and Teterboro Airport (TEB). Managing aircraft noise impacts at an airport is the shared concern of many parties, including the Federal Aviation Administration (FAA), airport owner/operator, air carriers, local governments, communities, and aircraft manufacturers.

NY/NJ Airspace

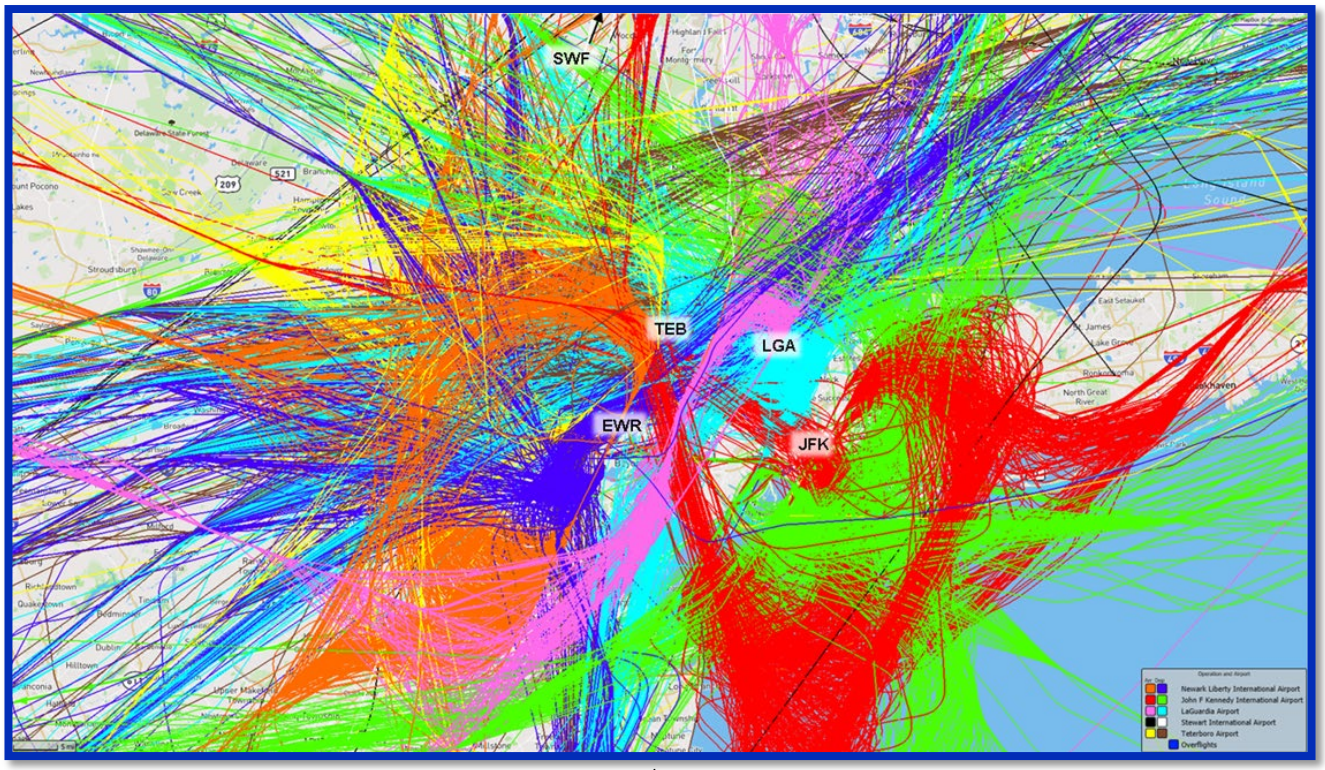
The Northeast regional airspace serving the New York and New Jersey metropolitan area is a complex system of air navigational routes. Arriving and departing aircraft must be safely separated both vertically and horizontally at all times while operating within this airspace. The FAA controls the airspace and is responsible for maintaining safe separation between aircraft while directing them along established flight routes designed to ensure safety and support noise abatement where possible.

Flight Tracking

The Port Authority utilizes the FAA's System Wide Information Management (SWIM) data in conjunction with Envirosuite's Airport Noise & Operations Management System to track and analyze aircraft operations.

The Port Authority maintains a WebTrak flight tracking system, which displays near–real-time aircraft movements and provides noise monitoring data from locations surrounding the airports. WebTrak provides detailed information including aircraft location, aircraft type, altitude, origin and destination airports, and flight identification numbers.

Typical Day of Operations



24-hour operations at Port Authority Airports (August 2nd, 2023, 4,341 Operations)

Air Traffic Management

The Federal Aviation Administration (Air Traffic Control) is responsible for the safe movement of aircraft both in the air and on the ground. Runway assignments, headings, altitudes, and other operational instructions are issued exclusively by FAA air traffic controllers. Safety is the FAA's highest priority. The FAA's noise-related responsibilities include regulating aircraft noise certification standards, approving operational restrictions, reviewing noise abatement procedures, establishing pilot and flight regulations, and noise compatibility studies.

Runway selection

The FAA determines runway and procedure selection based on criteria to ensure the highest level of safety. These criteria, in order of decreasing priority, are:

1. Runway Availability
2. Prevailing wind and weather patterns
3. Operational efficiency
4. Community noise concerns

Nighttime Operations

- Nighttime Operations are defined as operations taking place between 10 PM and 6:59 AM EST.
- The majority of nighttime operations are cargo and international flights.
- TEB's Flight Quiet program defines nighttime operations taking place between 11 PM and 6:00 AM EST.
- LaGuardia Airport typically has very limited scheduled operations after 10:00 PM, although delays may result in flights originally scheduled for daytime hours arriving or departing during nighttime periods.

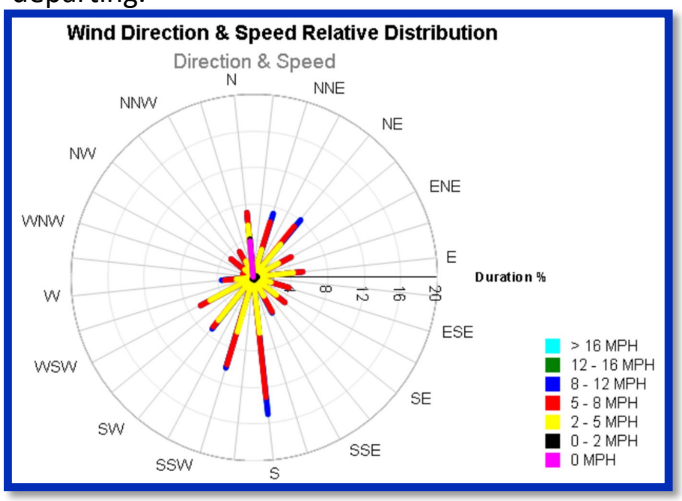
Runways at Each Airport

JFK	4
LGA	2
EWR	3
TEB	2
SWF	2

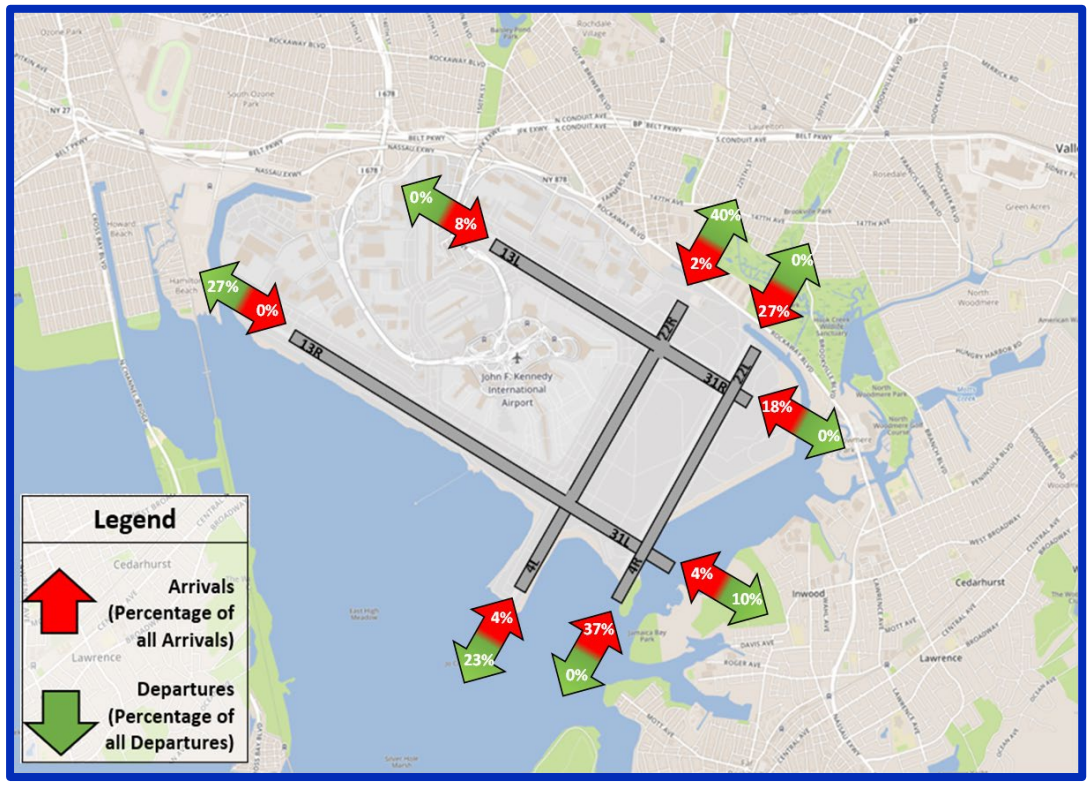
Runways are named based on their magnetic heading. For example, at LaGuardia Airport, Runway 04/22 is aligned approximately 040° in one direction and 220° in the opposite direction. If an airport has parallel runways, they are designated Left (L), Center (C), or Right (R), e.g., 22L/22C/22R.

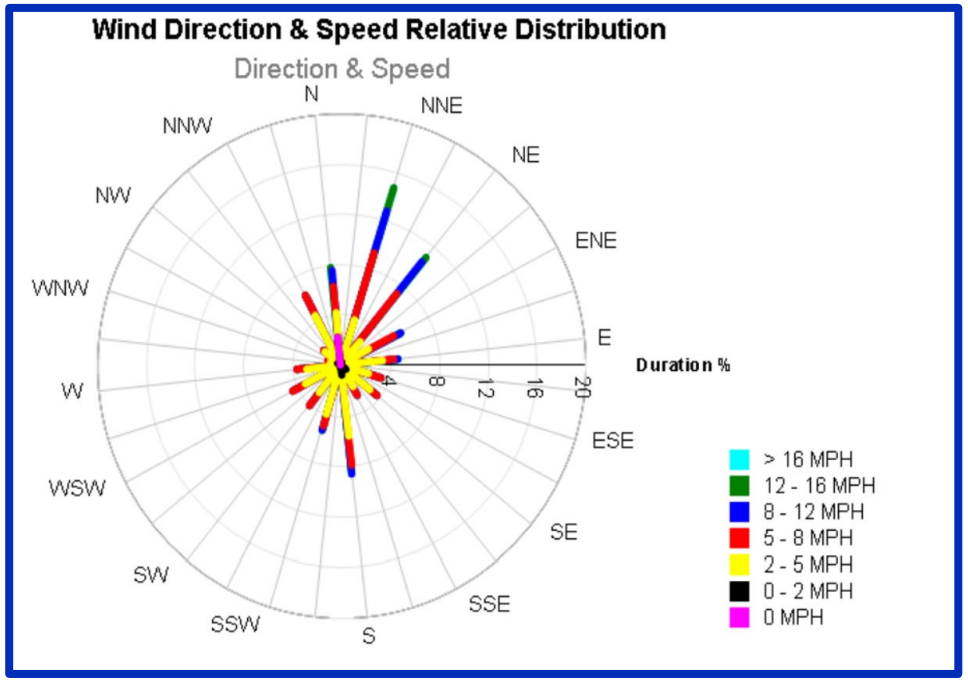
Windrose

A wind rose is a diagram used to give a graphical view of how wind speed and direction vary. Runway and flight procedure selection is determined by the FAA based on wind speed and direction. Flying into the wind allows for the greatest margin of safety when landing or departing.



JFK Runway Utilization – Directional Map and Wind Rose Map





Key Insights

- Most Used Arrival Runway This Month: Runway 4R (37% of all arrivals)
- Most Used Departure Runway This Month: Runway 4L (40% of all departures)
- Dominant Winds for September 2026 were from Northerly Directions - 60%

Wind Directions:
Dominant winds are defined for the four general directions with the highest combined frequency of hourly wind observations as follows:
Northerly: N, NW, NE, NNE, NNW
Westerly: W, WSW, WNW, NW, SW
Southerly: S, SW, SE, SSE, SSW
Easterly: E, ENE, ESE, NE, SE

JFK Runway Utilization – Monthly Comparison

Month	Total Operations	4L Arr	4L Dep	4R Arr	4R Dep	13L Arr	13L Dep	13R Arr	13R Dep	22L Arr	22L Dep	22R Arr	22R Dep	31L Arr	31L Dep	31R Arr	31R Dep	Unk Arr	Unk Dep
Sep - 2025	38,066	697	6,449	6,360	0	4,323	13	16	5,581	6,008	1	337	4,562	257	2,456	969	7	12	18
Oct - 2025	38,184	624	5,867	5,417	1	1,314	6	18	1,677	4,070	1	310	3,705	1,148	7,813	6,160	32	5	16
Nov - 2025	35,529	98	908	917	0	555	3	1	663	5,433	0	485	5,182	1,682	11,002	8,561	23	4	12
Dec - 2025	37,199	283	2,381	2,487	4	173	0	1	205	6,421	0	613	5,675	1,422	10,325	7,157	38	8	6
Jan - 2026	33,669	200	1,975	2,178	8	90	0	0	100	6,193	0	476	5,819	1,072	8,914	6,615	27	0	2
Feb - 2026	30,396	504	4,934	5,001	9	272	0	0	313	4,372	1	282	3,785	801	6,162	3,932	10	10	8
Mar - 2026	36,267	414	3,862	4,027	0	2,282	3	4	2,839	7,218	0	581	6,466	523	4,983	3,048	11	1	5
Apr - 2026	37,458	355	3,802	3,375	0	2,697	2	5	3,321	7,187	0	560	6,757	726	4,830	3,796	21	11	13
May - 2026	38,177	199	2,141	1,870	2	890	0	12	1,125	8,412	1	778	8,927	1,170	6,842	5,723	46	13	26
Jun - 2026	38,442	121	1,201	1,071	0	2,520	1	12	3,200	8,476	0	643	7,813	866	6,989	5,473	21	18	17
Jul - 2026	38,041	300	3,085	2,942	0	2,409	5	8	2,966	9,365	0	531	8,501	442	4,462	2,994	7	14	10
Aug - 2026	39,153	183	2,390	2,284	3	1,776	6	4	2,166	11,373	0	804	10,125	480	4,883	2,646	7	6	17
Sep - 2026	36,340	784	7,220	6,797	4	1,424	7	3	1,834	4,866	0	321	4,208	710	4,878	3,239	22	7	16

Data Source: PANYNJ Airport Noise and Operations Management System (ANOMS)

Monthly Comparison

Yearly Operational Changes - September 2026 vs September 2025

1,726 (-5%) Decrease in total operations

Most significant changes in runway usage

Arrivals: Decrease of 2,899 arrivals on Runway 13L (-67% Decrease)

Departures: Decrease of 3,747 departures on Runway 13R (-67% Decrease)

Monthly Operational Changes - September 2026 vs August 2026

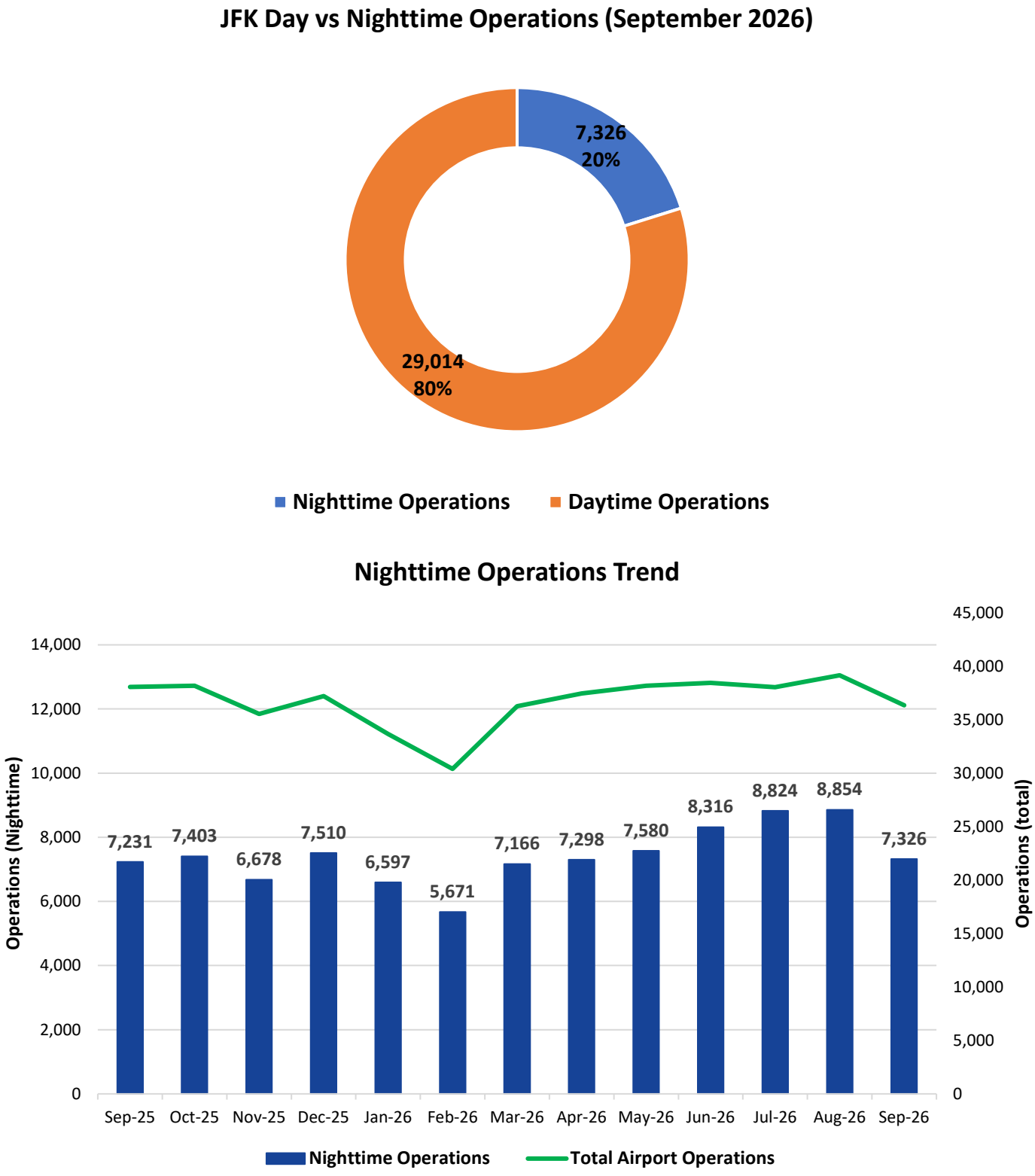
2,813 (-7%) Decrease in total operations

Most significant changes in runway usage

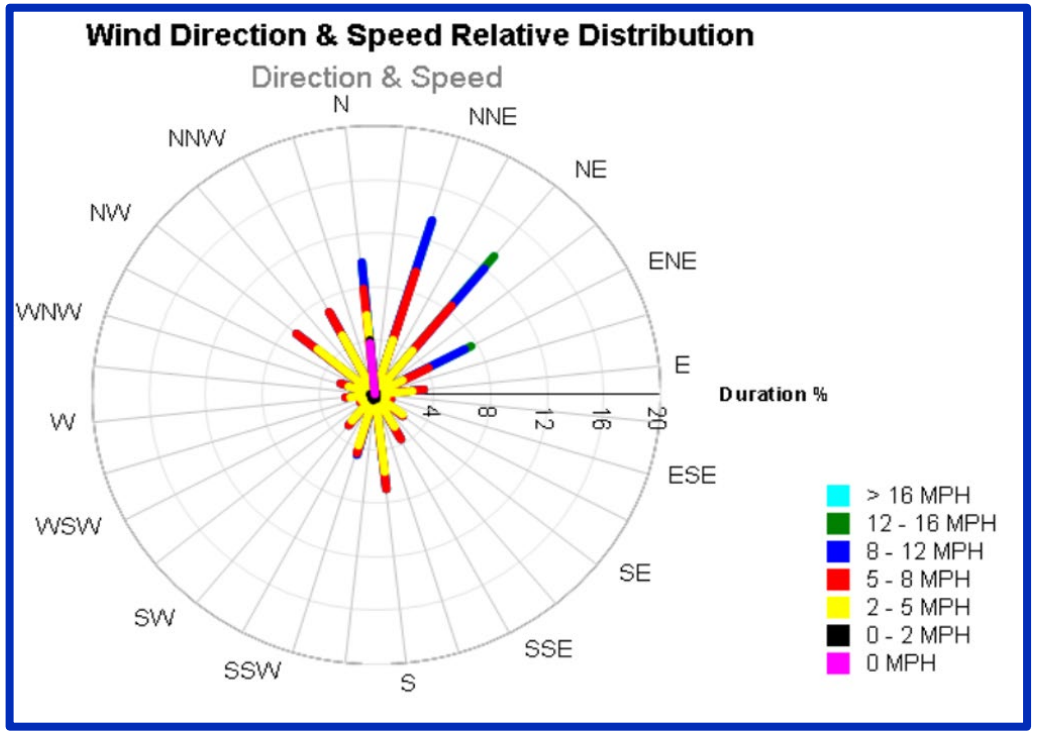
Arrivals: Decrease of 6,507 arrivals on Runway 22L (-57% Decrease)

Departures: Decrease of 5,917 departures on Runway 22R (-58% Decrease)

JFK Runway Utilization – Day vs Nighttime Operations



LGA Runway Utilization – Directional Map and Wind Rose Map



Key Insights

- Most Used Arrival Runway This Month: Runway 4 (34% of all arrivals)
- Most Used Departure Runway This Month: Runway 13 (50% of all departures)
- Dominant Winds for September 2026 were from Northerly Directions - 66%

Wind Directions:
Dominant winds are defined for the four general directions with the highest combined frequency of hourly wind observations as follows:
Northerly: N, NW, NE, NNE, NNW
Westerly: W, WSW, WNW, NW, SW
Southerly: S, SW, SE, SSE, SSW
Easterly: E, ENE, ESE, NE, SE

LGA Runway Utilization – Monthly Comparison

Month	Total Operations	4 Arr	4 Dep	13 Arr	13 Dep	22 Arr	22 Dep	31 Arr	31 Dep	Unk Arr	Unk Dep
Sep - 2025	30,664	6,630	2,336	129	11,499	6,612	527	1,928	979	6	18
Oct - 2025	31,183	4,749	5,250	80	6,211	6,586	481	4,142	3,677	3	4
Nov - 2025	28,964	1,247	3,084	4	3,958	7,981	89	5,221	7,366	5	9
Dec - 2025	28,098	1,682	3,289	16	3,211	7,481	216	4,851	7,339	5	8
Jan - 2026	27,262	1,229	2,605	25	3,282	9,267	10	3,091	7,749	0	4
Feb - 2026	25,387	2,882	4,433	101	5,097	4,632	8	5,028	3,181	17	8
Mar - 2026	28,244	2,929	1,407	1,358	8,953	7,094	179	2,708	3,609	3	4
Apr - 2026	30,794	3,036	3,229	565	9,705	8,360	17	3,416	2,457	5	4
May - 2026	30,531	1,646	3,773	367	6,374	8,353	828	4,864	4,318	6	2
Jun - 2026	29,126	2,298	2,019	534	6,301	9,080	454	2,619	5,811	3	7
Jul - 2026	28,200	3,040	3,334	371	7,009	7,652	75	3,008	3,693	9	9
Aug - 2026	28,892	2,876	3,325	104	6,361	8,231	733	3,218	4,030	4	10
Sep - 2026	29,242	4,997	5,369	620	7,356	4,664	15	4,299	1,903	7	12

Data Source: PANYNJ Airport Noise and Operations Management System (ANOMS)

Monthly Comparison

Yearly Operational Changes - September 2026 vs September 2025
1,422 (-5%) Decrease in operations

Most significant changes in runway usage

Arrivals: Increase of 2,371 arrivals on Runway 31 (123% Increase)

Departures: Decrease of 4,143 departures on Runway 13 (-36% Decrease)

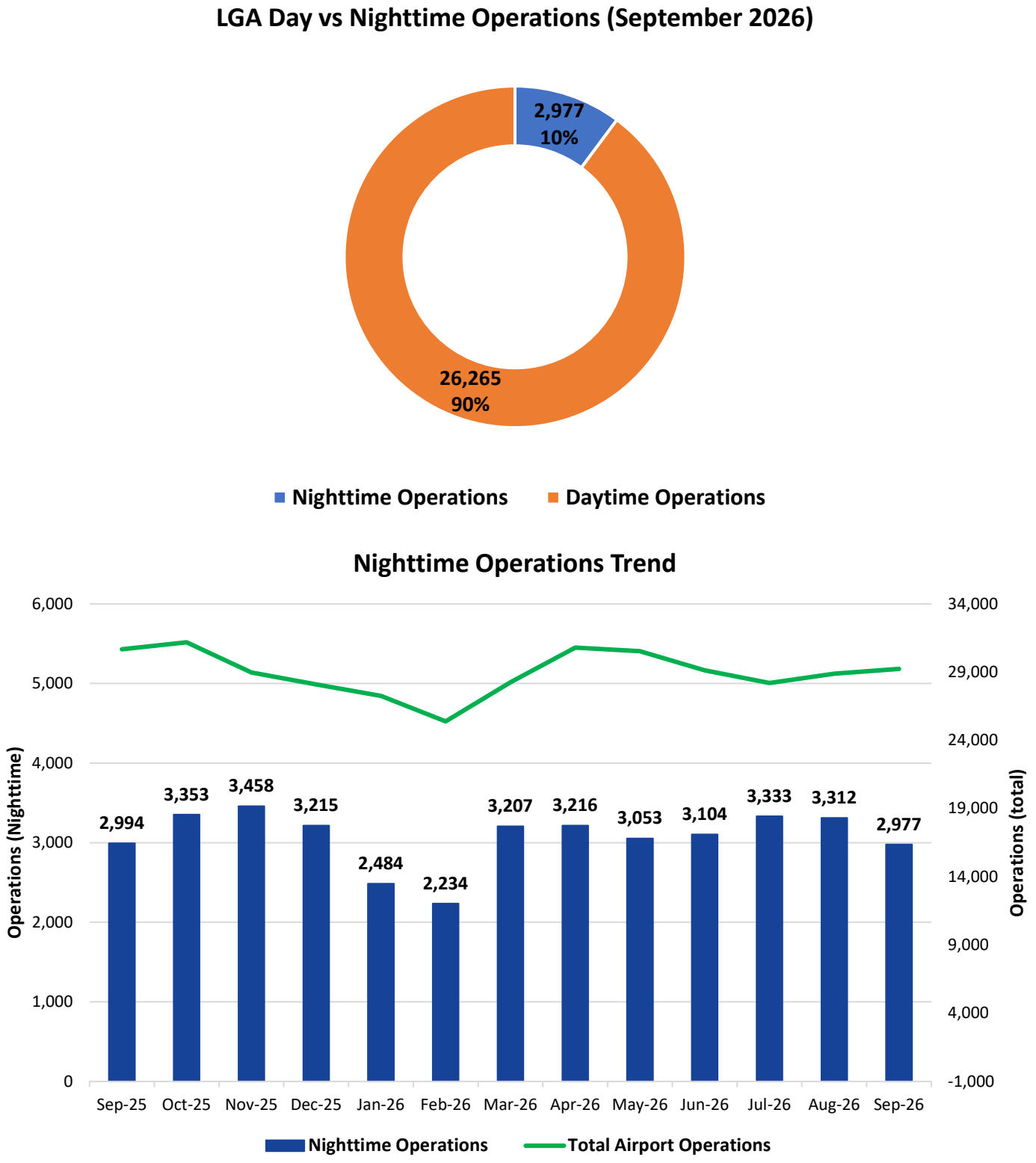
Monthly Operational Changes - September 2026 vs August 2026
350 (1%) Increase in operations

Most significant changes in runway usage

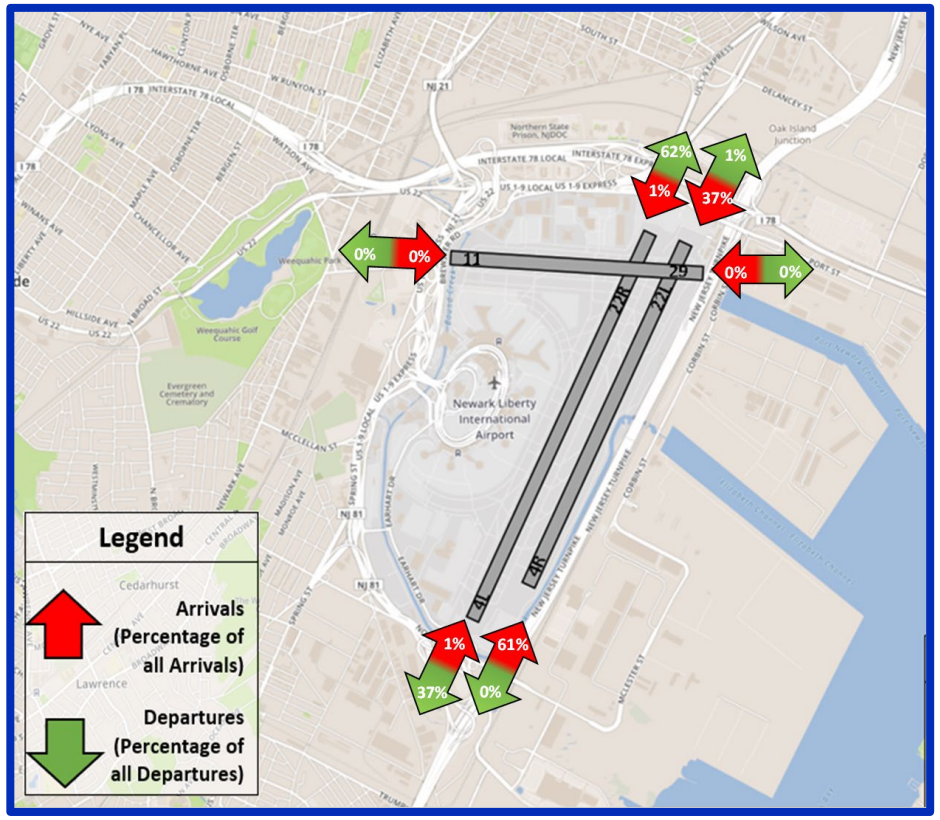
Arrivals: Decrease of 3,567 arrivals on Runway 22 (-43% Decrease)

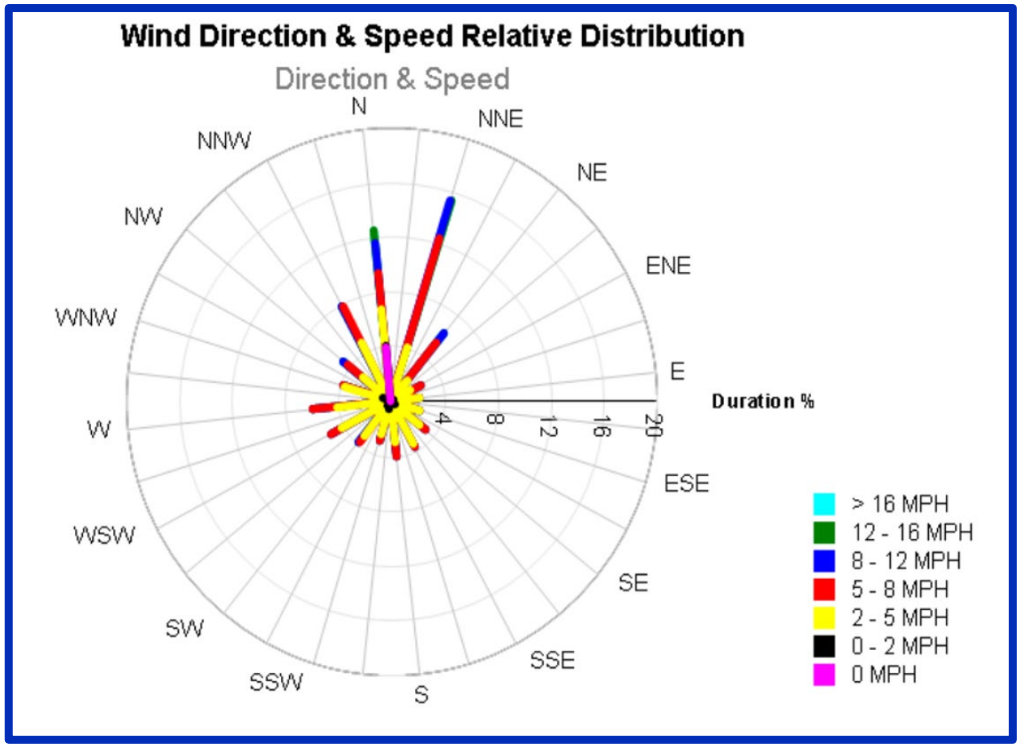
Departures: Decrease of 2,127 departures on Runway 31 (-53% Decrease)

LGA Runway Utilization – Day vs Nighttime Operations



EWR Runway Utilization – Directional Map and Wind Rose Map





Key Insights

Most Used Arrival Runway This Month: Runway 4R (61% of all arrivals)

Most Used Departure Runway This Month: Runway 4L (62% of all departures)

Dominant Winds for September 2026 were from Northerly Directions - 62%

Wind Directions:
Dominant winds are defined for the four general directions with the highest combined frequency of hourly wind observations as follows:
Northerly: N, NW, NE, NNE, NNW
Westerly: W, WSW, WNW, NW, SW
Southerly: S, SW, SE, SSE, SSW
Easterly: E, ENE, ESE, NE, SE

EWR Runway Utilization – Monthly Comparison

Month	Total Operations	4L Arr	4L Dep	4R Arr	4R Dep	11 Arr	11 Dep	22L Arr	22L Dep	22R Arr	22R Dep	29 Arr	29 Dep	Unk Arr	Unk Dep
Sep - 2025	32,872	81	7,846	8,427	718	47	18	7,381	819	173	7,050	288	2	9	13
Oct - 2025	34,055	115	8,356	8,861	546	26	97	6,732	849	136	7,184	1,131	7	1	14
Nov - 2025	32,136	35	2,283	2,402	77	11	9	10,189	1,536	154	12,160	3,252	20	2	6
Dec - 2025	34,457	222	5,183	5,207	194	23	7	9,080	547	144	11,294	2,522	28	1	5
Jan - 2026	30,956	35	2,240	2,606	334	12	1	10,711	155	453	12,745	1,647	10	1	6
Feb - 2026	27,658	211	7,541	7,498	111	14	14	5,941	80	135	5,987	20	68	8	30
Mar - 2026	34,063	160	6,186	6,078	58	23	16	9,636	419	254	10,347	853	23	2	8
Apr - 2026	33,689	98	7,393	7,427	141	15	18	8,994	202	83	9,083	214	7	5	9
May - 2026	33,394	97	6,646	6,649	98	17	11	9,384	75	197	9,874	325	11	2	8
Jun - 2026	33,155	151	4,980	4,713	42	20	14	11,134	189	112	11,355	428	9	2	6
Jul - 2026	32,064	124	6,016	5,805	46	12	21	9,636	103	257	9,850	172	8	5	9
Aug - 2026	32,446	92	5,355	5,367	112	9	4	10,388	82	263	10,659	99	6	2	8
Sep - 2026	31,702	188	9,788	9,741	131	25	27	5,806	73	82	5,824	8	4	0	5

Data Source: PANYNJ Airport Noise and Operations Management System (ANOMS)

Monthly Comparison

Yearly Operational Changes - September 2026 vs September 2025
1,170 (-4%) Decrease in operations

Most significant changes in runway usage

Arrivals: Decrease of 1,575 arrivals on Runway 22L (-21% Decrease)

Departures: Increase of 1,942 departures on Runway 4L (25% Increase)

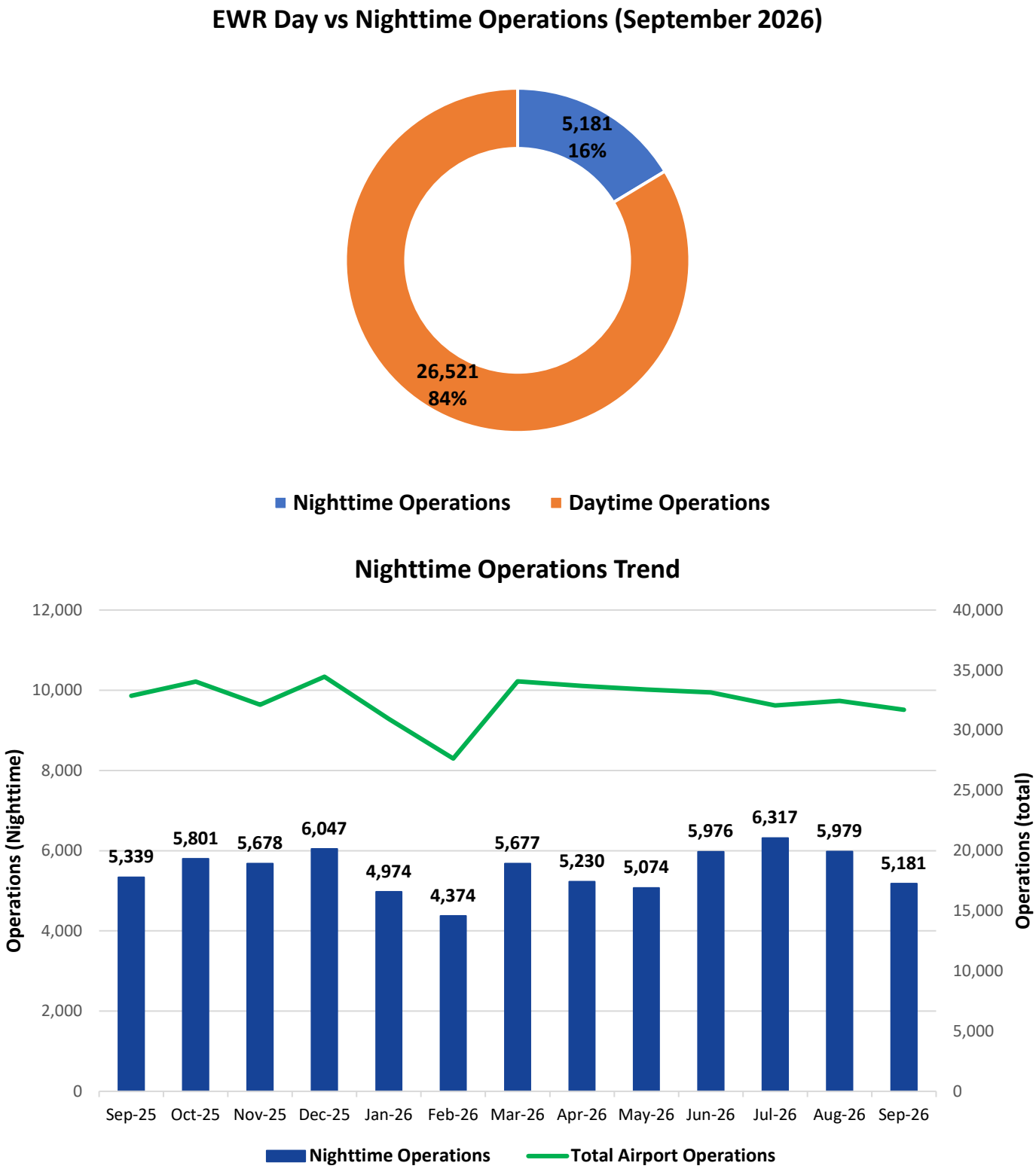
Monthly Operational Changes - September 2026 vs August 2026
744 (-2%) Decrease in operations

Most significant changes in runway usage

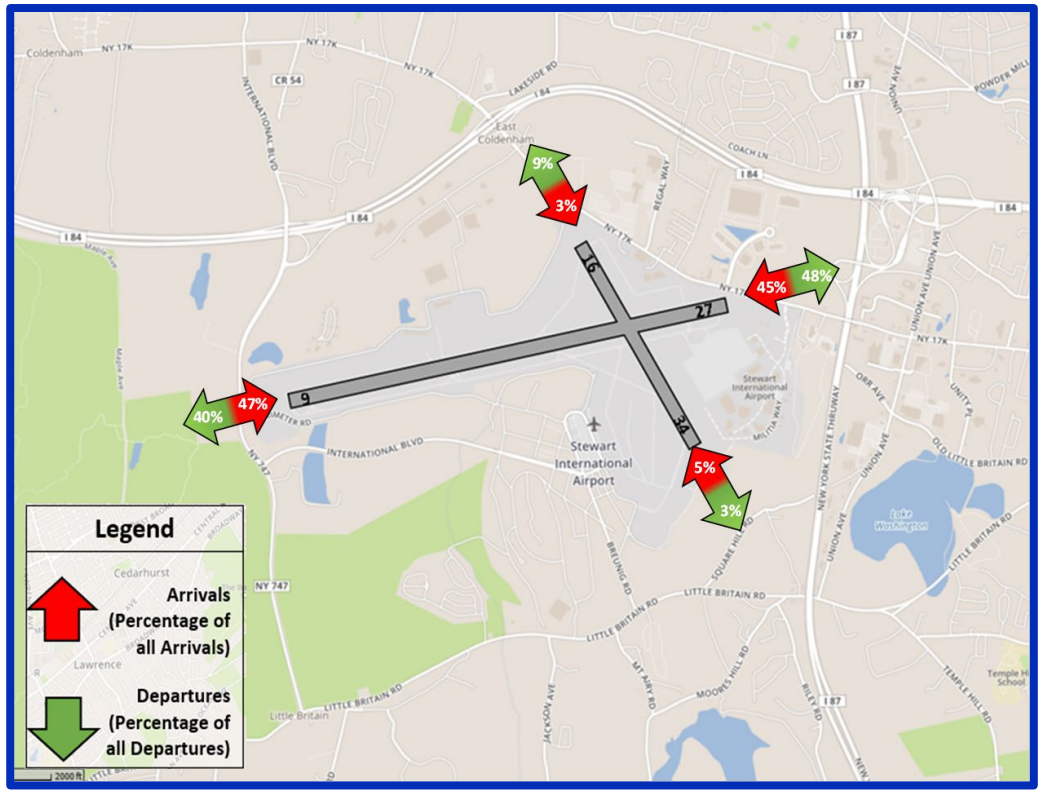
Arrivals: Decrease of 4,582 arrivals on Runway 22L (-44% Decrease)

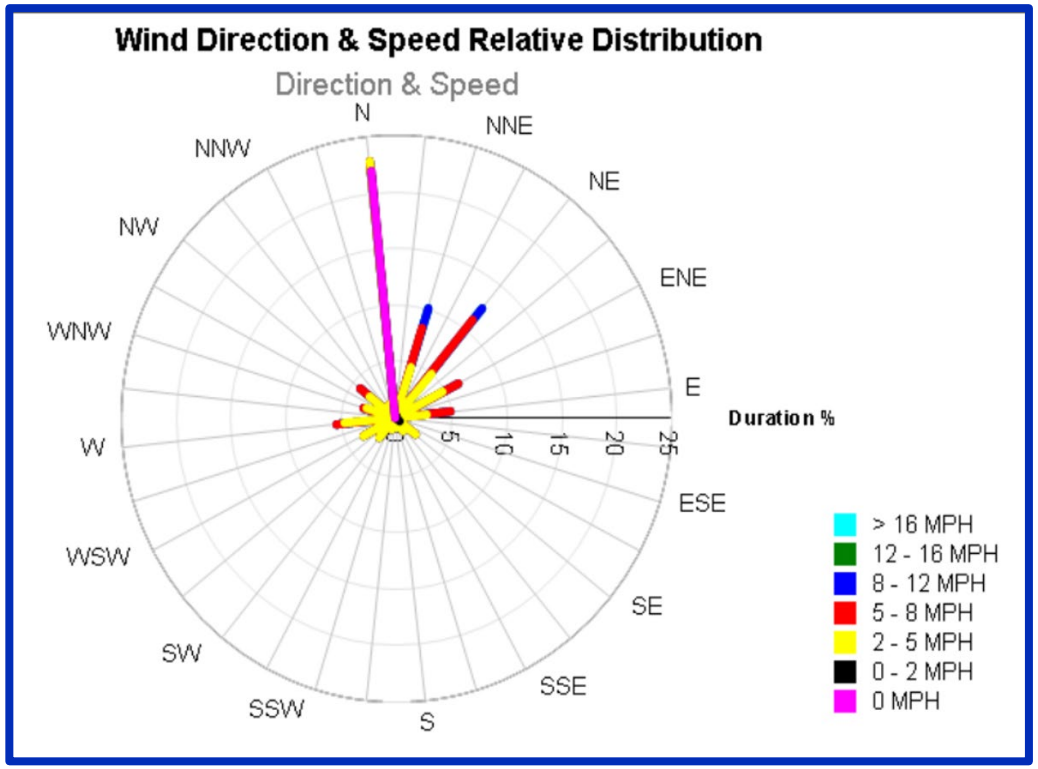
Departures: Decrease of 4,835 departures on Runway 22R (-45% Decrease)

EWR Runway Utilization – Day vs Nighttime Operations



SWF Runway Utilization – Directional Map and Wind Rose Map





Key Insights

- Most Used Arrival Runway This Month: Runway 9 (47% of all arrivals)
- Most Used Departure Runway This Month: Runway 9 (48% of all departures)
- Dominant Winds for September 2026 were from Northerly Directions - 67%

Wind Directions:
Dominant winds are defined for the four general directions with the highest combined frequency of hourly wind observations as follows:
Northerly: N, NW, NE, NNE, NNW
Westerly: W, WSW, WNW, NW, SW
Southerly: S, SW, SE, SSE, SSW
Easterly: E, ENE, ESE, NE, SE

SWF Runway Utilization – Monthly Comparison

Month	Total Operations	9 Arr	9 Dep	16 Arr	16 Dep	27 Arr	27 Dep	34 Arr	34 Dep	Unk Arr	Unk Dep
Sep - 2025	1,127	177	183	18	22	262	305	23	39	11	87
Oct - 2025	1,260	265	257	14	15	293	302	16	43	6	49
Nov - 2025	1,083	57	55	6	4	411	437	22	45	15	31
Dec - 2025	965	76	78	4	10	329	360	24	48	7	29
Jan - 2026	820	46	29	3	3	323	360	14	22	5	15
Feb - 2026	750	64	50	3	4	285	304	3	8	6	23
Mar - 2026	938	142	130	15	9	262	297	9	17	19	38
Apr - 2026	960	129	129	13	14	262	282	25	39	18	49
May - 2026	1,094	103	101	11	13	347	359	37	54	9	60
Jun - 2026	1,185	92	73	10	14	404	449	33	40	15	55
Jul - 2026	1,456	141	147	14	17	478	463	34	63	23	76
Aug - 2026	1,159	56	52	31	22	426	412	31	71	8	50
Sep - 2026	1,118	236	264	14	16	226	223	23	49	13	54

Data Source: PANYNJ Airport Noise and Operations Management System (ANOMS)

Monthly Comparison

Yearly Operational Changes - September 2026 vs September 2025
9 (-1%) Decrease in operations

Most significant changes in runway usage

Arrivals: Increase of 59 arrivals on Runway 9 (33% Increase)

Departures: Decrease of 82 departures on Runway 27 (-27% Decrease)

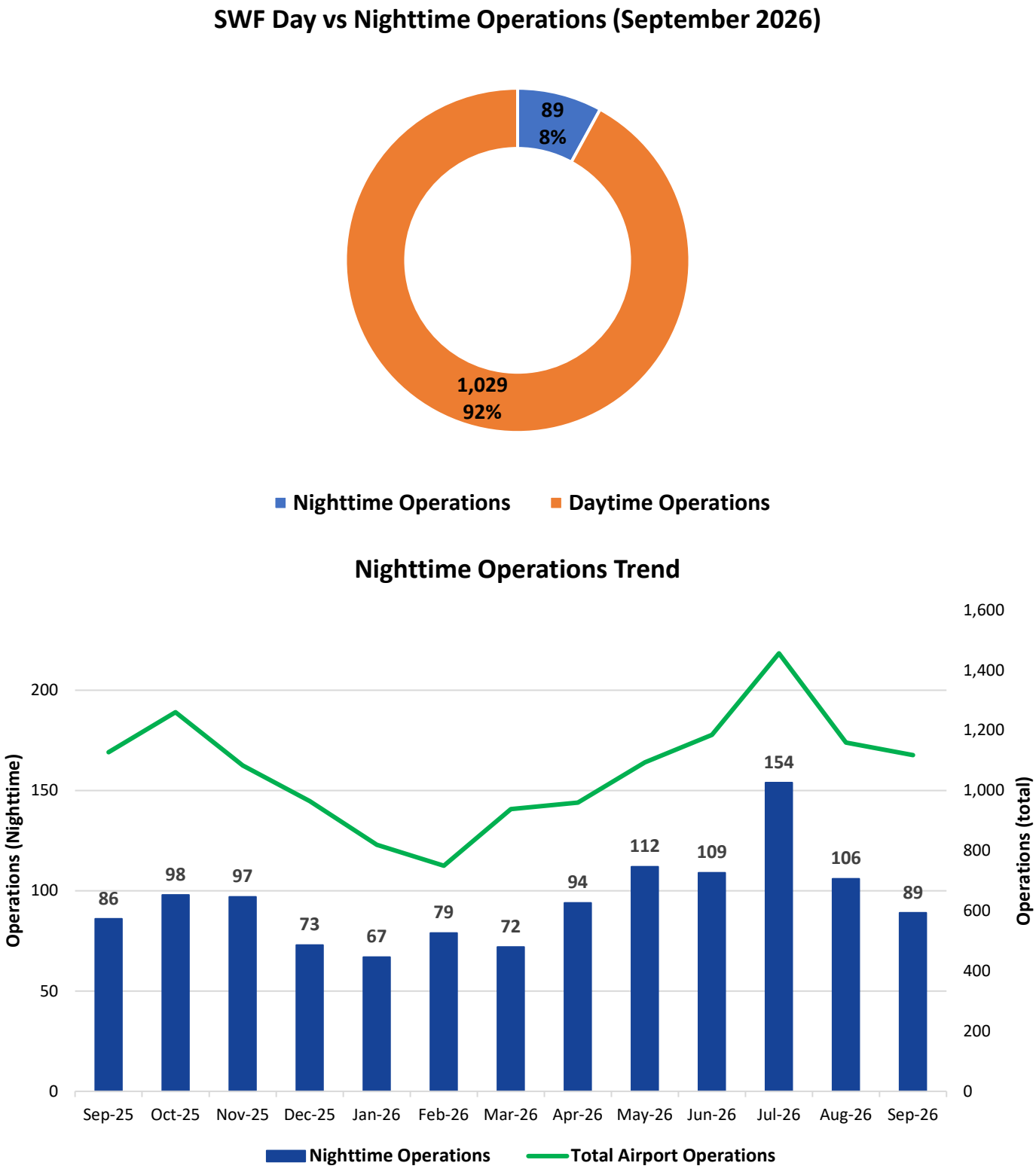
Monthly Operational Changes - September 2026 vs August 2026
41 (-4%) Decrease in operations

Most significant changes in runway usage

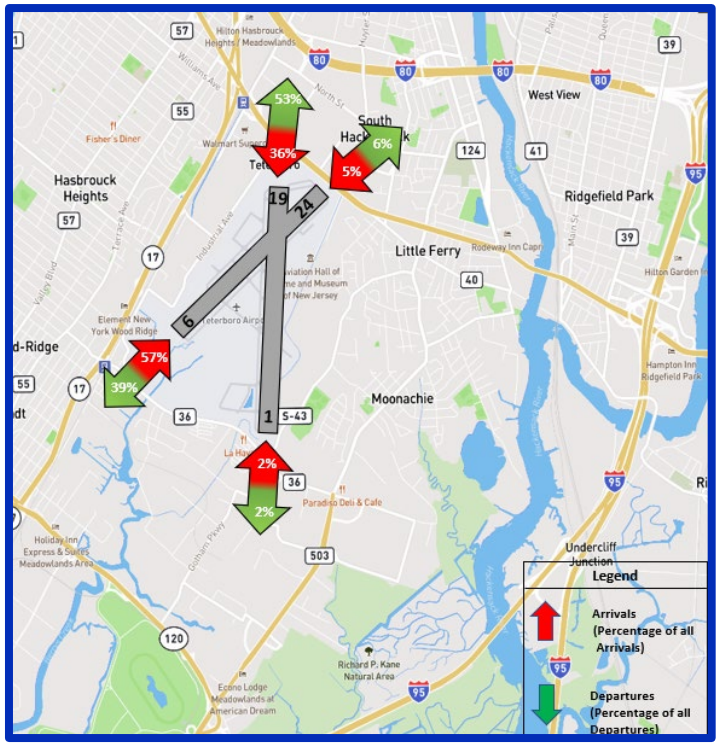
Arrivals: Decrease of 200 arrivals on Runway 27 (-47% Decrease)

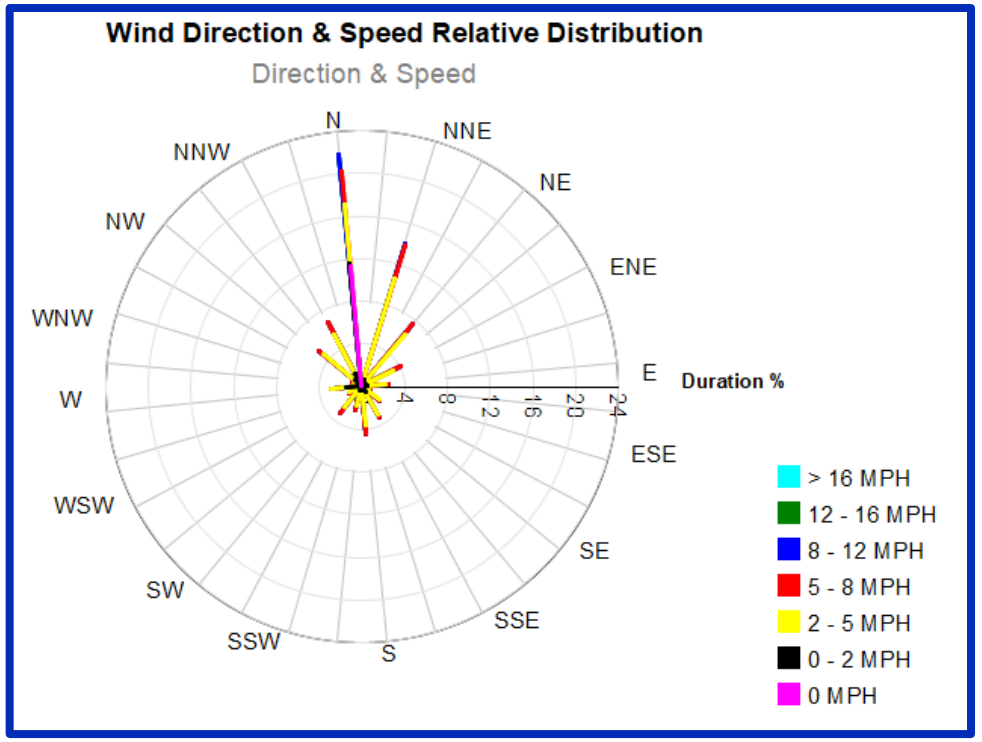
Departures: Increase of 212 departures on Runway 9 (408% Increase)

SWF Runway Utilization – Day vs Nighttime Operations



TEB Runway Utilization – Directional Map and Wind Rose Map





Key Insights

- Most Used Arrival Runway This Month: Runway 6 (57% of all arrivals)
- Most Used Departure Runway This Month: Runway 1 (53% of all departures)
- Dominant Winds for September 2026 were from Northerly Directions - 73%

Wind Directions:
Dominant winds are defined for the four general directions with the highest combined frequency of hourly wind observations as follows:
Northerly: N, NW, NE, NNE, NNW
Westerly: W, WSW, WNW, NW, SW
Southerly: S, SW, SE, SSE, SSW
Easterly: E, ENE, ESE, NE, SE

TEB Runway Utilization – Monthly Comparison

Month	Total Operations	1 Arr	1 Dep	6 Arr	6 Dep	19 Arr	19 Dep	24 Arr	24 Dep	Unk Arr	Unk Dep
Sep - 2025	17,469	553	4,099	4,028	476	3,809	243	407	3,854	0	0
Oct - 2025	16,529	310	3,757	4,049	522	3,112	248	868	3,663	0	0
Nov - 2025	15,580	88	1,039	1,202	196	3,486	249	3,087	6,233	0	0
Dec - 2025	13,108	530	1,943	1,880	213	2,446	189	741	5,166	0	0
Jan - 2026	11,439	106	720	872	152	2,568	199	1,937	4,885	0	0
Feb - 2026	11,756	575	2,919	2,619	111	2,004	113	723	2,692	0	0
Mar - 2026	15,158	307	2,524	2,598	162	3,927	194	876	4,570	0	0
Apr - 2026	15,069	691	2,778	2,586	299	3,601	257	728	4,129	0	0
May - 2026	16,981	640	3,030	2,544	255	4,297	378	1,133	4,704	0	0
Jun - 2026	15,448	738	2,184	1,833	222	3,790	473	1,459	4,749	0	0
Jul - 2026	13,650	193	2,362	2,238	268	3,556	374	885	3,774	0	0
Aug - 2026	12,554	214	1,833	1,727	314	3,546	332	822	3,766	0	0
Sep - 2026	16,844	195	4,446	4,792	153	3,020	490	439	3,309	0	0

Data Source: PANYNJ Airport Noise and Operations Management System (ANOMS)

Monthly Comparison

Yearly Operational Changes - September 2026 vs September 2025
625 (-4%) Decrease in operations

Most significant changes in runway usage

Arrivals: Decrease of 789 arrivals on Runway 19 (-21% Decrease)

Departures: Decrease of 545 departures on Runway 24 (-14% Decrease)

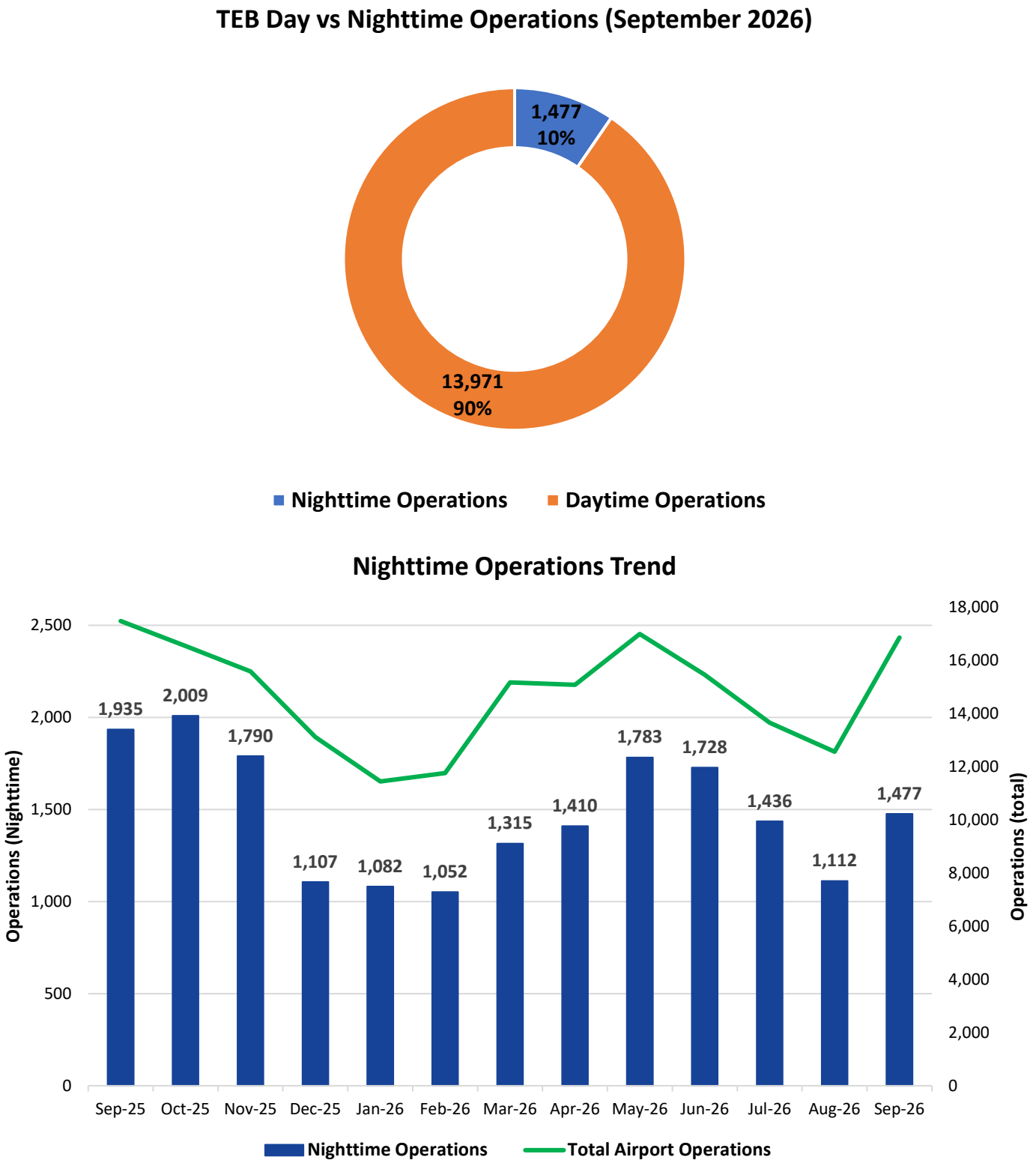
Monthly Operational Changes - September 2026 vs August 2026
4,290 (34%) Increase in operations

Most significant changes in runway usage

Arrivals: Increase of 3,065 arrivals on Runway 6 (177% Increase)

Departures: Increase of 2,613 departures on Runway 1 (143% Increase)

TEB Runway Utilization – Day vs Nighttime Operations



Helpful Links

PA Aircraft Noise webpage

The Port Authority's official aircraft noise webpage

https://aircraftnoise.panynj.gov/

Webtrak

Webtrak portal provides near real-time aircraft movements and noise levels

https://webtrak.emsbk.com/panynj4

Submit a noise complaint

Learn about different methods of filing a noise complaint

https://aircraftnoise.panynj.gov/submit-a-noise-complaint/

Monthly Reports

Find monthly runway utilization, noise monitoring, and noise complaint reports

https://aircraftnoise.panynj.gov/reports/

Noise information and FAQs

Learn about aviation noise and frequently asked questions

https://aircraftnoise.panynj.gov/faqs/

Fly Quiet Program

Learn about the Fly Quiet Program and airline award winners

https://aircraftnoise.panynj.gov/fly-quiet-program/

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