Noise Monitor Data St Albans

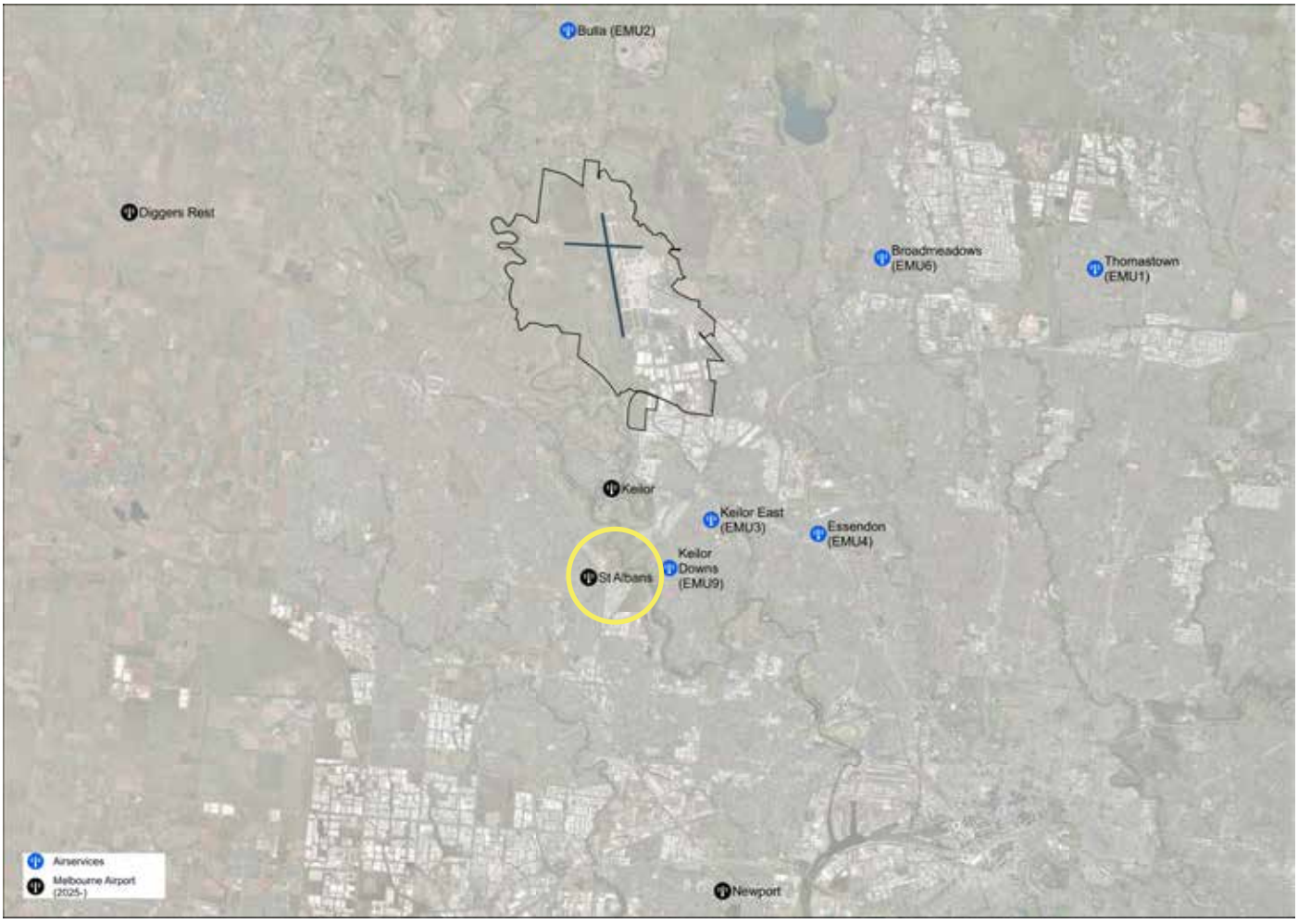
This report provides a summary of the aircraft noise data collected from 1 January 2026 to 31 March 2026 inclusive.

Melbourne Airport installed four new portable noise monitors in 2025 to increase and improve the data available for residents about aircraft noise around the airport. The installation of these monitors is a direct response to community feedback received during the 2022 public exhibition of Melbourne Airport's Third Runway Major Development Plan. The monitors provide the public with accurate measurements of overhead flight noise.

The relocatable noise monitors were positioned in Keilor, St Albans, Diggers Rest and Newport and supplement the six permanent Airservices Australia noise monitors already located in nearby suburbs (see below).

The portable noise monitors are linked directly to Airservices Australia's Webtrak system allowing anyone to access the data online in almost real time.

Data presented in this report covers the maximum noise level detected for an aircraft event.



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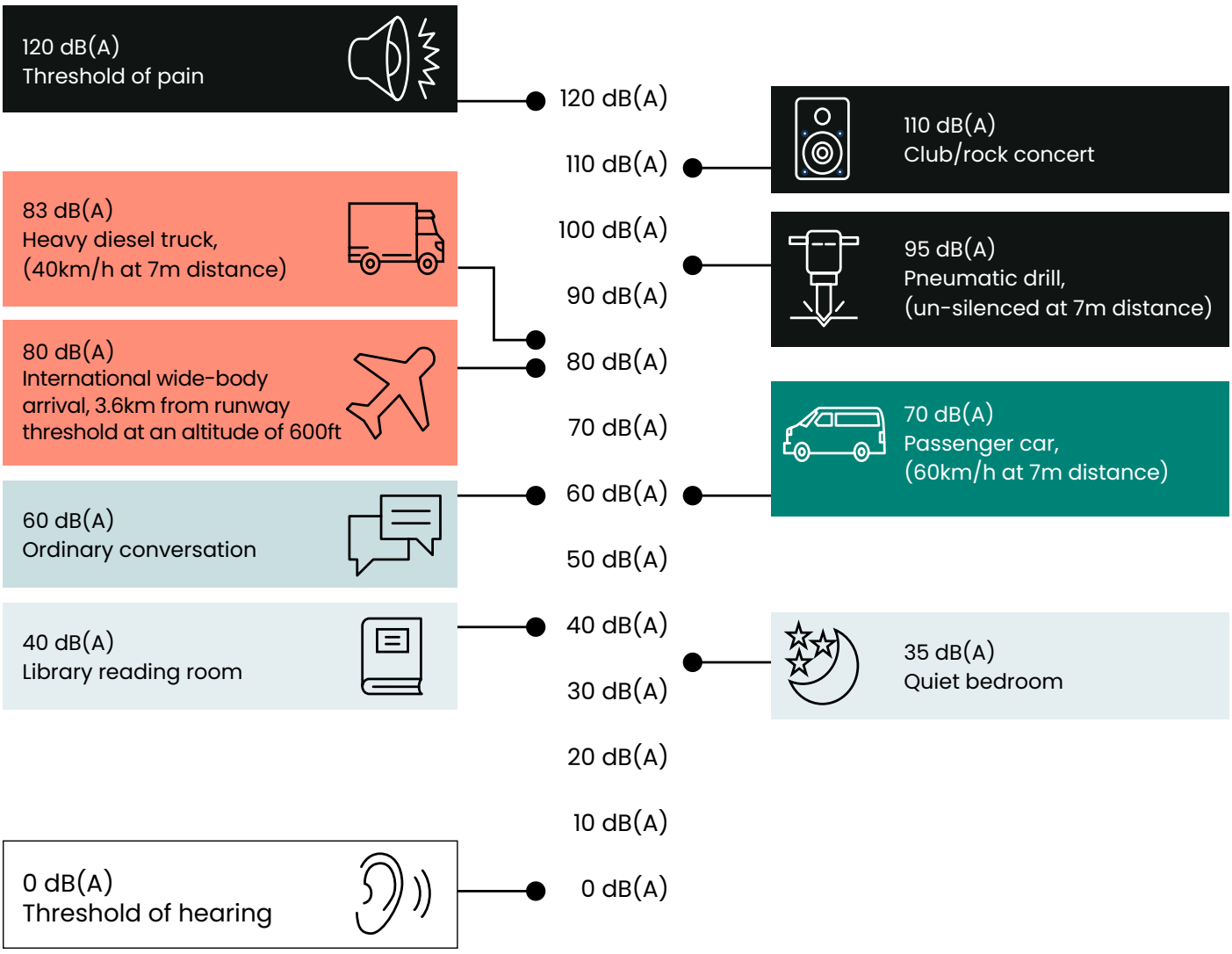
Noise scale

Sound is usually measured in decibels (dB). Aircraft noise is measured in decibels adjusted, which is A-weighted decibels or dB(A). This means decibels have been adjusted to reflect our ear's response to different frequencies of sound.

The scale below explains noise in the context of common experiences. It describes the noise modelled 3,600 metres south of Melbourne Airport's third runway, at the intersection of the Calder Freeway and Green Gully Rd, for:

- narrow-body[1] jet arrivals and departures (typically serving domestic routes)
- wide-body[2] jet arrivals and departures (typically serving international routes)

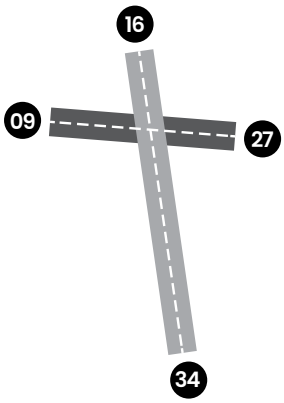


< 60 dB(A)	60-65 dB(A)	65-70 dB(A)	70-75 dB(A)	75-80 dB(A)	80-85 dB(A)	85-90 dB(A)	> 90 dB(A)

Source: APAM and NASF Guideline A: Attachment 1
*3.6km is approximately the distance from Runway 34R threshold to the Calder Freeway. Aircraft noise values are based on modelling used in Melbourne Airport's Third Runway Major Development Plan.
1 'Narrow-body' refers to aircraft that have one passenger aisle. Examples include Boeing 737 and Airbus A320 fleets.
2 'Wide-body' refers to aircraft that have two passenger aisles. Examples include Boeing 787 and Airbus A380 fleets.

Aircraft movements

Below are the number of aircraft movements captured by the St Albans monitor by operation (arrivals/departures) and runway between 1 January 2026 to 31 March 2026.



Arrivals	
Runway 16	10
Runway 34	9
Runway 09	-
Runway 27	6
Runway 16/34	**19**
Runway 09/27	**6**

Departures	
Runway 16	3,550
Runway 34	-
Runway 09	-
Runway 27	6
Runway 16/34	**3,550**
Runway 09/27	**6**

N-above noise events

One way to describe aircraft noise impacts is by the number of noise events that exceed a certain level. These metrics are referred to as 'N-above' (as in, number above) contour levels.

It aims to provide information in a form that is better understood by the public. It does this by providing a description of aircraft noise exposure at a given location and time period. The National Airports Safeguarding Framework (NASF) Guideline A: Measure for Managing Impacts of Aircraft Noise, recommends the use of N-contours for strategic planning purposes.

The data collected from the St Albans noise monitor is presented in the N-above format below, indicating the average number of events during the recorded period.

For example, on average there were:

- **22 daily departure events above 70dB(A)**
- **0 daily arrival events above 60dB(A)**

		Arrival Events	Departure Events	Total Events
N60 24hr	N60 24 hours provides the number of events at or above 60dB(A) over a 24-hour period	**<1**	**39**	**40**
N70 24hr	N70 24 hours provides the number of events at or above 70dB(A) over a 24-hour period	**<1**	**22**	**22**
N60 night	N60 night provides the number of events at or above 60dB(A) over the night period (11pm to 6am)	**<1**	**4**	**4**

Aircraft noise can be different for arrivals and departures. The following pages provide information broken down by operation (arrival and departures).

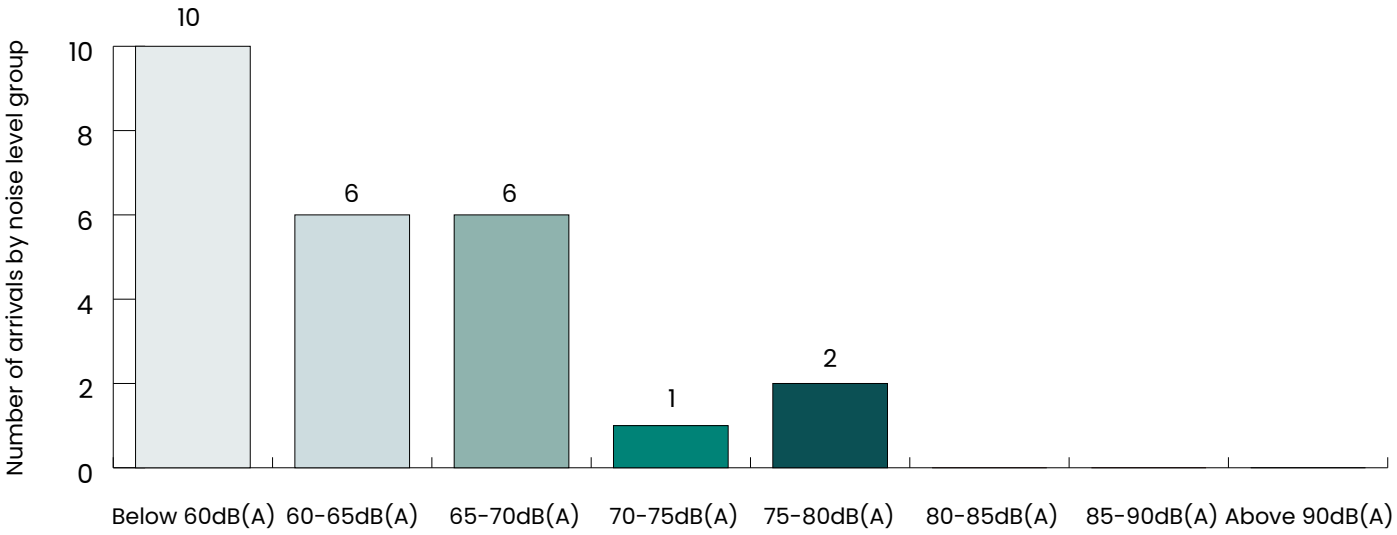
Arrivals

Noise results from the 25 arrivals collected during the recorded dates have been allocated into noise level 'groups' and by periods of the day.

Graph below highlights the number of arrivals d by noise level group.

For example, there were:

- **6 arrivals** detected between **60-65dB(A)**
- **2 arrivals** detected between **75-80dB(A)**



The number of arrivals by noise level group and time of day are highlighted below.

For example, there were:

- **2 arrivals** detected between **65-70dB(A)** in the **Afternoon (1pm-5pm)**
- **0 arrivals** detected between **75-80dB(A)** in the **Night (11pm-6am)**

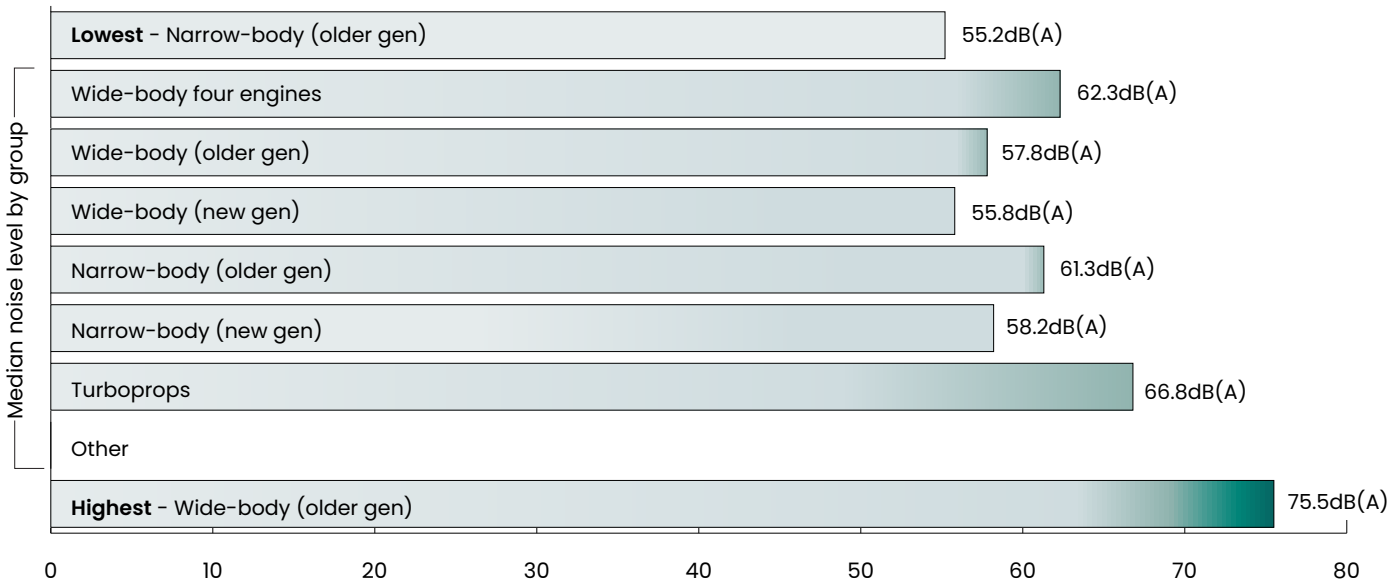
	< 60 dB(A)	60-65 dB(A)	65-70 dB(A)	70-75 dB(A)	75-80 dB(A)	80-85 dB(A)	85-90 dB(A)	> 90 dB(A)
Morning 6am-1pm	4	4	4	1	1	-	-	-
Afternoon 1pm-5pm	1	-	2	-	1	-	-	-
Evening 5pm-11pm	-	-	-	-	-	-	-	-
Night 11pm-6am	5	2	-	-	-	-	-	-
TOTAL	10	6	6	1	2	-	-	-

Below highlights the number of arrivals during the recorded dates by aircraft type groups along with the highest, lowest and median noise level events.

For example, there were:

- **3 wide-body four engine arrivals** with a **median** noise level of **62.3dB(A)**
- **6 narrow-body (older gen) arrivals** with a **median** noise level of **61.3dB(A)**

Grouping	Example Aircraft Type	Number of arrivals captured	Maxium Noise Level dB(A)		
			Highest	Median	Lowest
Wide-body four engines	Airbus A380, Boeing 747	3	63.7	62.3	58.5
Wide-body (older gen)	Boeing 777, Airbus A330	6	70.7	57.8	56.3
Wide-body (new gen)	Airbus A350, Boeing 787, Airbus A330neo	1	55.8	55.8	55.8
Narrow-body (older gen)	Airbus A321/A320, Boeing 737, Boeing 717, Embraer 190, BAe-146	6	66.5	61.3	55.2
Narrow-body (new gen)	Airbus A321neo/A320neo, Boeing 737 MAX, Airbus A220	2	60.2	58.2	56.2
Turboprops	Dash-8 Q400, Saab 340, Metroliner	7	75.5	66.8	64.8
Other	Global Express, Cessna 172 etc.	-	-	-	-



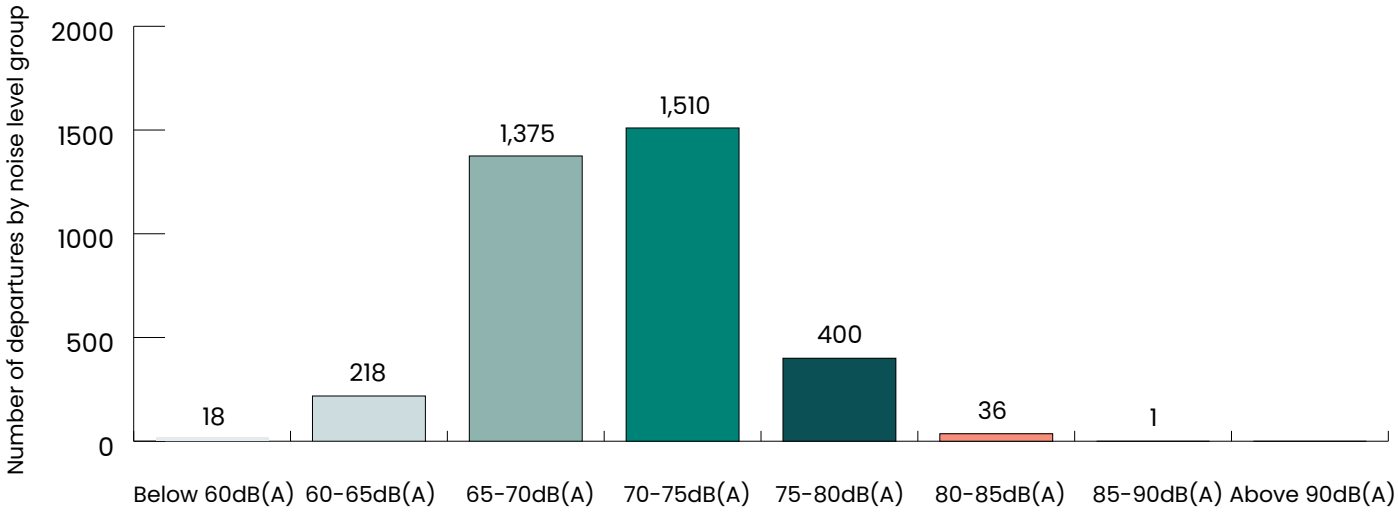
Departures

Noise results from the 3,558 departures collected during the recorded dates have been allocated into noise level 'groups' and by periods of the day.

Graph below highlights the number of departures by noise level group.

For example, there were:

- **218 departures** detected between **60-65 dB(A)**
- **400 departures** detected between **75-80 dB(A)**



The number of departures by noise level group and time of day are highlighted below.

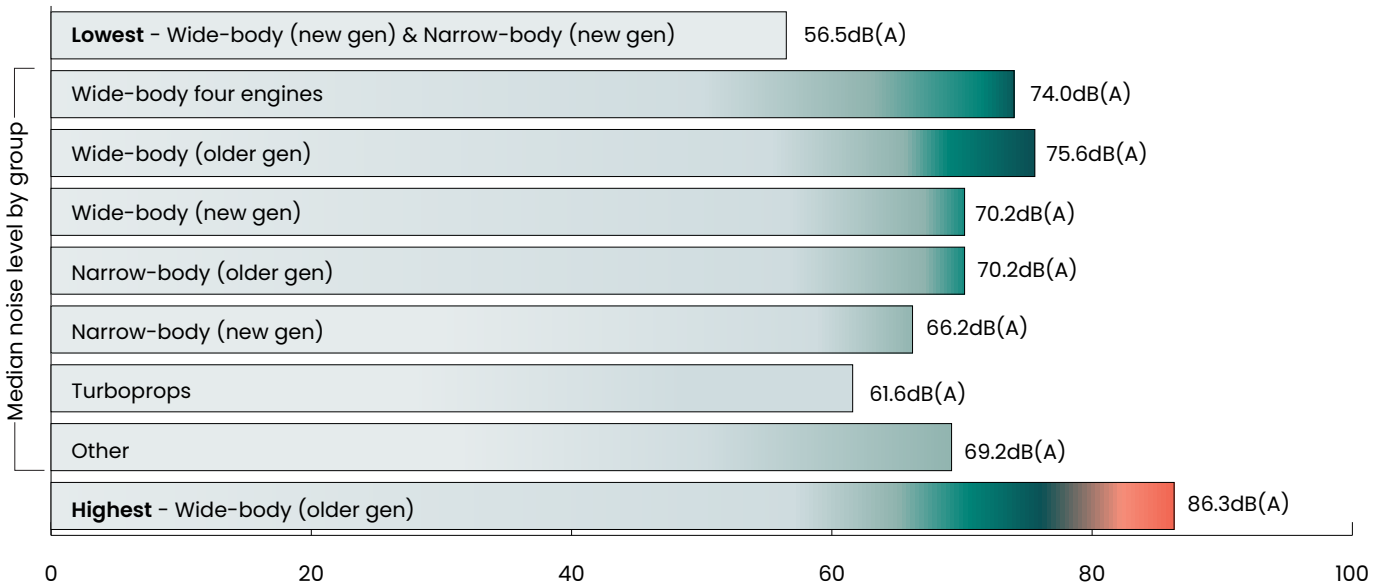
For example, there were:

- **78 departures** detected between **60-65dB(A)** in the **Morning (6am-1pm)**
- **74 departures** detected between **75-80dB(A)** in the **Night (11pm-6am)**

	< 60 dB(A)	60-65 dB(A)	65-70 dB(A)	70-75 dB(A)	75-80 dB(A)	80-85 dB(A)	85-90 dB(A)	> 90 dB(A)
Morning 6am-1pm	8	78	326	293	82	7	-	-
Afternoon 1pm-5pm	7	45	382	490	104	5	1	-
Evening 5pm-11pm	1	46	517	621	140	12	-	-
Night 11pm-6am	2	49	150	106	74	12	-	-
TOTAL	6	218	1,375	1,510	400	36	1	-

Below highlights the number of departures during the recorded dates by aircraft type groups along with the highest, lowest and median noise level events.

For example, there were:

- **445 wide-body (older gen) departures** with a **median** noise level of **76.5dB(A)**
- **157 narrow-body (new gen) departures** with a **median** noise level of **67.0dB(A)**

Grouping	Example Aircraft Type	Number of arrivals captured	Maxium Noise Level dB(A)		
			Highest	Median	Lowest
Wide-body four engines	Airbus A380, Boeing 747	65	86.3	74.0	64.2
Wide-body (older gen)	Boeing 777, Airbus A330	608	83.5	75.6	59.4
Wide-body (new gen)	Airbus A350, Boeing 787, Airbus A330neo	359	76.7	70.2	56.5
Narrow-body (older gen)	Airbus A321/A320, Boeing 737, Boeing 717, Embraer 190, BAe-146	2,282	77.9	70.2	59.1
Narrow-body (new gen)	Airbus A321neo/A320neo, Boeing 737 MAX, Airbus A220	231	71.9	66.2	56.5
Turboprops	Dash-8 Q400, Saab 340, Metroliner	3	65.3	61.6	59.2
Other	Global Express, Cessna 172 etc.	10	73.0	69.2	62.8