AIRCRAFT NOISE REPORT

Winthrop

0.8 mi from Logan airport (BOS) · 315 days of flight data, September 28, 2025 – September 27, 2026

5 /10

Moderate exposure

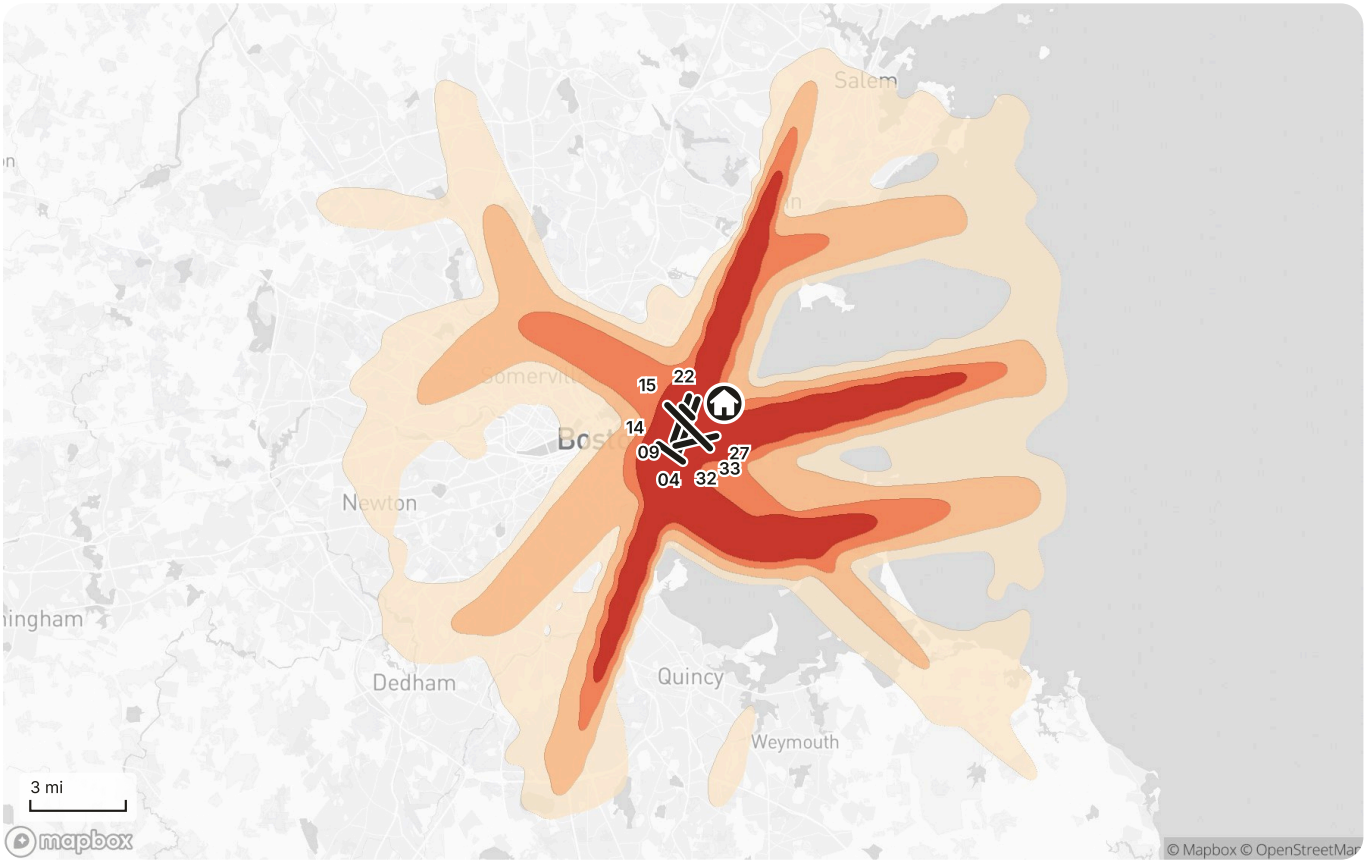
How much aircraft noise this place gets, from 1 (very little) to 10 (very high).

57
loud events a day
Planes louder than 65 dB here: loud enough to interrupt a conversation.

8.3
a night
Loud planes between 10 pm and 7 am.

55 dB
average noise
Aircraft noise averaged over day and night (DNL). The FAA treats 65 dB as significant; the WHO recommends under 45 dB.

ON THE MAP · LOUD EVENTS A DAY



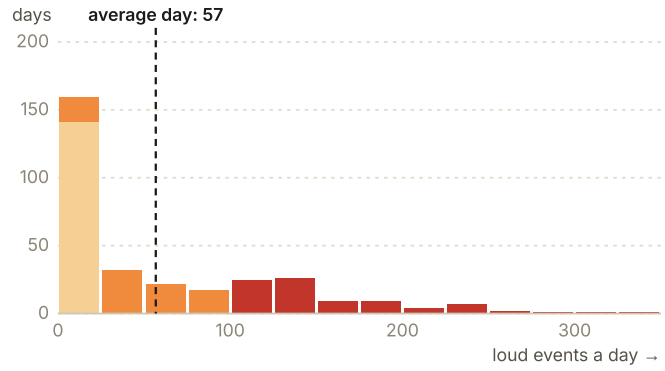
Loud events a day 1–10 10–50 50–100 100+ · louder than 65 dB, average over 315 days

Loudest plane here **Airbus A300-600 take-off, up to 72 dB**

LOUD DAYS AND QUIET DAYS

27% of days are loud, 45% are quiet

Every day with full data (315), by its loud events: flights louder than 65 dB at the place.



45% quiet days (under 10) **28%** in between (10–99)
27% loud days (100+)

WHAT MAKES A DAY LOUD

It depends on the runway in use

Aircraft take off and land into the wind, so mostly the wind decides which way the airport runs. In light winds, noise rules, runway works or traffic can decide instead.

Runway 04 · usually a north wind
39% of days: take-offs climb out over the place
130 loud a day

Runway 33 · usually a north-west wind
17% of days: the flights keep away from the place
10 loud a day

Runway 22 · usually a south wind
35% of days: landings come over the place
8 loud a day

Runway 27 · usually a west wind
9% of days: the flights keep away from the place
8 loud a day

How much of the difference between days each explains

Runway in use	68%
Season	23%
Day of the week	0%

343
loud events on the loudest day, October 16

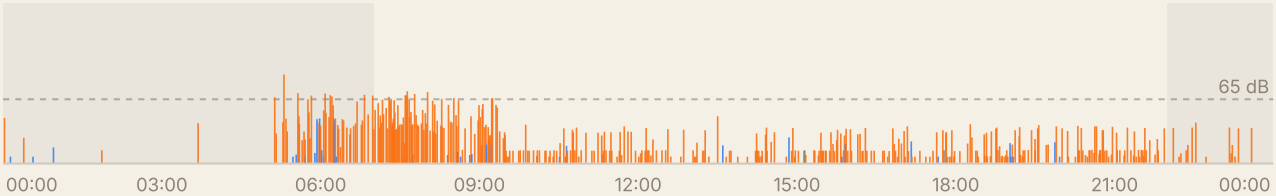
0
on the quietest day, September 28

7%
of days come within a quarter of the average (57)

A REAL DAY · TYPICAL

Friday, April 3, 2026

A day close to the middle of all days here. Every flight heard at the place is a spike, as tall as it was loud; above the dashed line is a loud event.



Winthrop · Logan airport (BOS) · September 28, 2025 – September 27, 2026

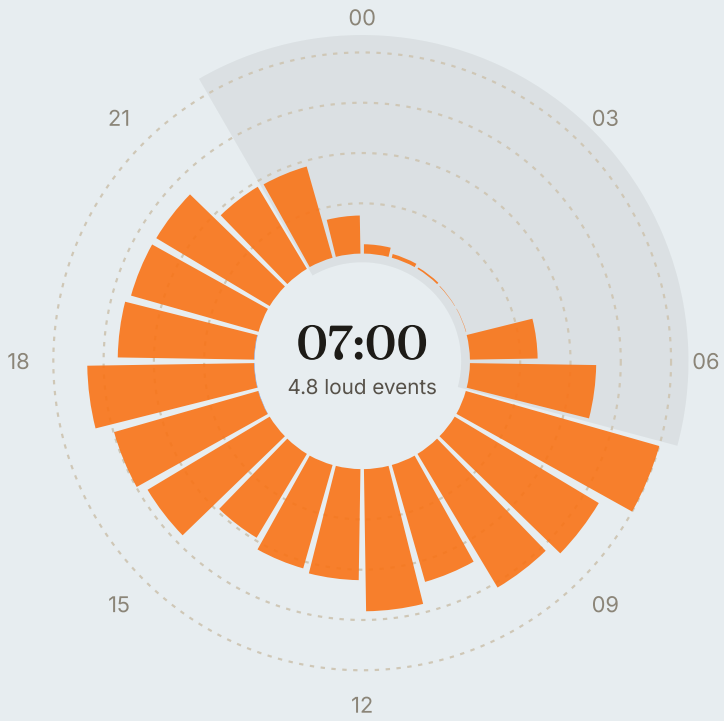
landings take-offs other flights night, 10 pm–7 am

21 loud events · **10** at night · loudest **71 dB**

THE RHYTHM OF A DAY

Loudest around 7 am

About 4.8 loud events in that hour, one every 13 minutes or so, and it stays loud from 6 am to 9 pm. Nights (shaded) bring about 8.



LOUD EVENTS AT THE PLACE, HOUR BY HOUR

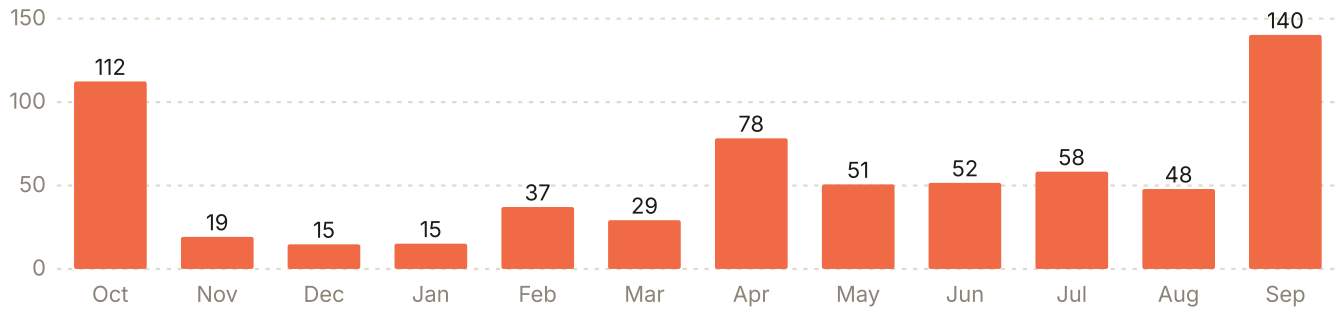
Round a 24-hour clock, on an average day. The further a bar reaches out, the more loud events in that hour.

from landings
from take-offs
night, 10 pm–7 am

ACROSS THE YEAR

Loud events a day, month by month

Averages over the complete days of each month. Empty months are not in the data yet.



Quiet nights

usually no loud events here between 10 pm and 8 am

−11%

loud events at weekends compared with weekdays: 52 against 59 a day

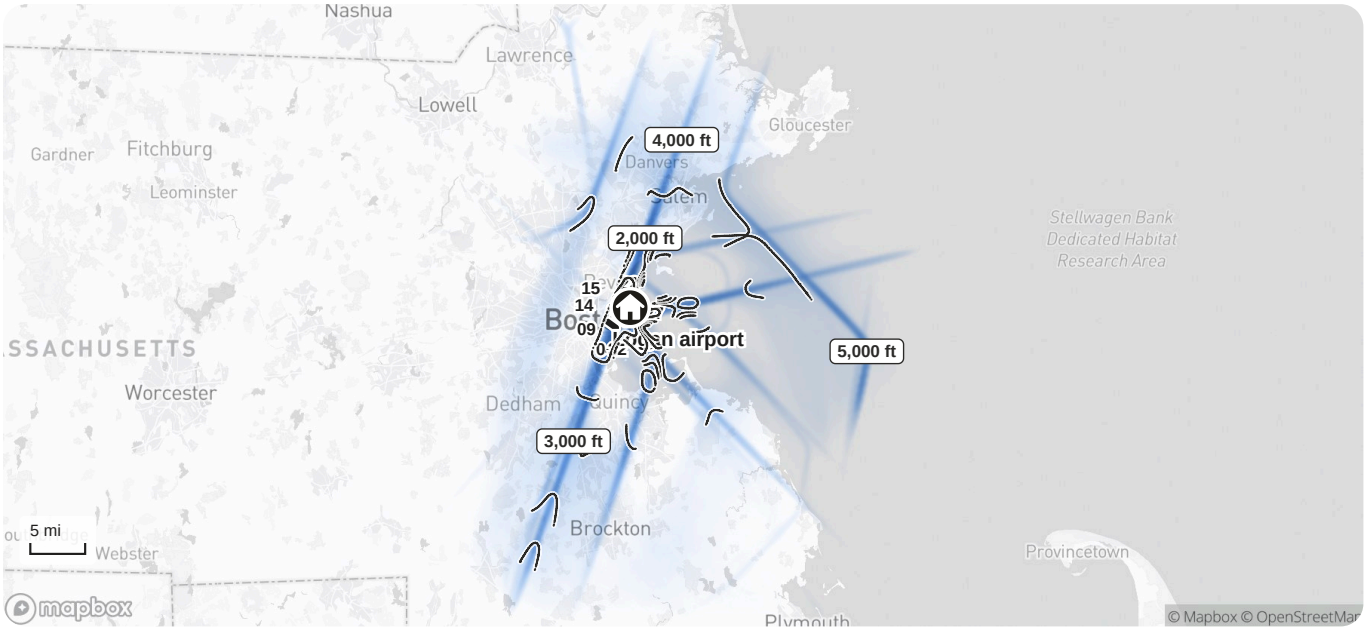
2:34 am–4:11 am

the airport's usual quiet spell: no flights at all at BOS

HOW HIGH

Where the planes fly

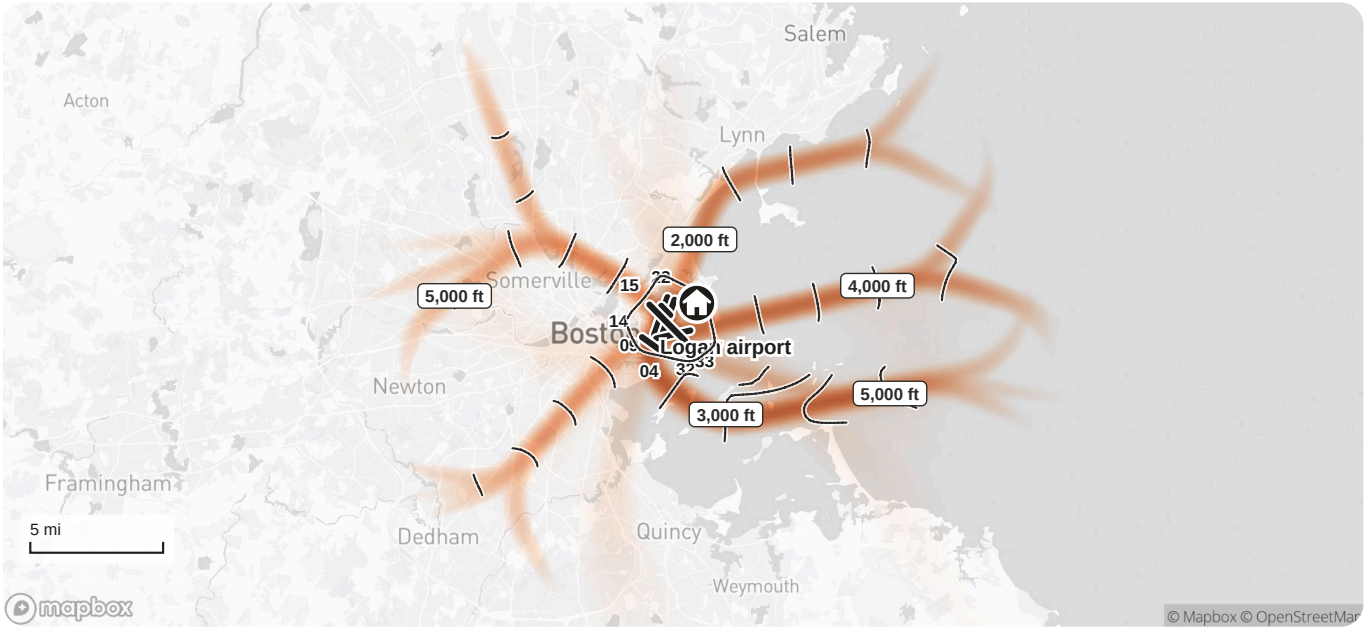
Where the planes pass, and how high: the darker, the more flights a day over that spot; the lines give their height there. Lower is louder. **Take-offs pass about 5 times higher, yet they are louder here: their engines run at full power.**



Landings a day, over each spot

1 3 10 30 100 300

Landings pass the place at about **130 ft** above the airport, 0.8 mi to the side, typically **46 dB** here; 8 in 10 between 20 ft and 380 ft.



Take-offs a day, over each spot

1 3 10 30 100 300

Take-offs pass the place at about **580 ft** above the airport, 0.8 mi to the side, typically **64 dB** here; 8 in 10 between 230 ft and 1,200 ft.

THE PLANES BEHIND THE LOUD EVENTS

Airbus A321 33% · **Boeing 737-800** 21% · **Embraer E175** 10% · **Boeing 737-900** 8% · **Boeing 767-300** 4% · **Boeing 757-200** 4%

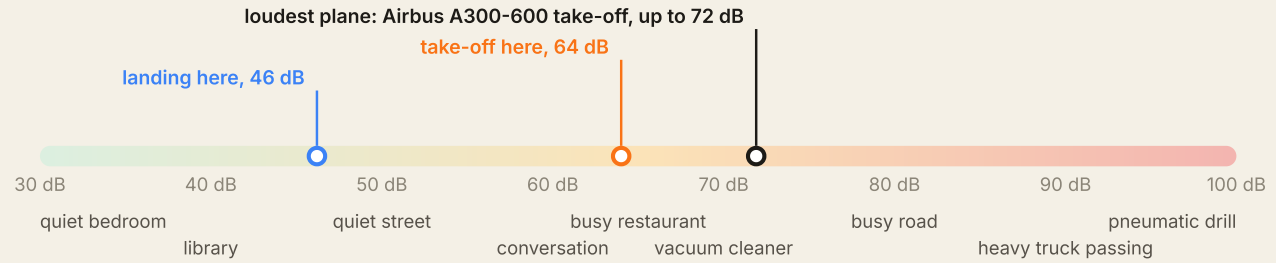
single-aisle jets 70% · wide-body jets 15% · regional jets 12% · business jets 2% · other 1%

HOW LOUD

Take-offs here peak at about 64 dB, as loud as a busy restaurant

How loud one plane is at the place, next to everyday sounds, and the average level (DNL) that US airport noise maps use. Estimated for every flight with the internationally agreed method that also underlies the FAA's noise model, and the international aircraft noise data.

PEAKS AT THE PLACE, NEXT TO EVERYDAY SOUNDS



Loud events

Flights louder than	Average day	Loudest day
65 dB	57	343
70 dB	6	126
80 dB	0	2
65 dB at night	8	55

Average levels

	Here	WHO guideline
Day and night (DNL)	**55 dB**	45 dB (FAA: 65 significant)
Night, 10 pm–7 am (Ln)	**47 dB**	40 dB
Day, 7 am–10 pm (Ld)	52 dB	–

Outdoors, 13 ft above the ground, aircraft only. Indoors, open windows take off about 10–15 dB and closed double glazing about 25–35 dB. WHO: Environmental Noise Guidelines for the European Region (2018).

BEFORE YOU DECIDE

What to check at this address

1. **Visit when runway 04 is in use**, usually when the wind is from the north: that is when it is loud here, about 130 loud events a day. A flight-tracking app shows the runway in use.
2. **Be there around 7 am**, the loudest hour of an average day.
3. **Stay for an evening or an early morning**: nights bring about 8 loud events.
4. **Ask about the windows**: closed double glazing takes about 25–35 dB off, and many airports pay towards insulating nearby homes.
5. **Check the airport's plans**: new routes, runway works or new rules for night flights can change all of this.

How this report is made

Every aircraft broadcasts its position, height and identity (ADS-B). Volunteer receivers collect these messages and ADSB.lol publishes them. Flight Noise stores every flight, finds each landing and take-off and its runway, and estimates how loud each one was at this address.

Period	315 complete days, September 28, 2025 – September 27, 2026; the report covers a rolling 12 months. 40 days are left out because the receiver network recorded them only in part.
Data check	Our flight data covers about 90% of the airport's landings and take-offs in the official count (FAA Air Traffic Activity Data System (ATADS)).
Loud events	Flights louder than 65 dB at the place, the way the UK (N65) and Australia (N70) present airport noise to residents.
Noise levels	Estimated, not measured on site: the ECAC Doc 29 method (the same approach as SAE AIR-1845, which the FAA's AEDT model follows) with the EUROCONTROL/EASA ANP 2.3 aircraft noise data. The average level is DNL, as the FAA uses it: day 7 am–10 pm, night 10 pm–7 am, when every plane counts ten times.
Near the runway	Receivers often lose aircraft low down, in the last few miles. A track that stops short is completed along the runway line (down a 3° slope for landings). Some flights disappear farther out, still descending towards the airport, or first appear already climbing away from it: under 1% of flights here. They are counted too, and completed along the path fully tracked flights took on the same runway. In all, 2% of flights needed some completing.
Heights	Reported by the aircraft, shown above the airport. "Over the place": at least 48.5° above the horizon, the UK Civil Aviation Authority's definition (CAP 1498).

Only aircraft picked up by receivers near the airport are counted, so counts are a minimum. Noise levels are estimates for open ground: