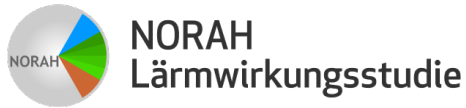


Location comparison: every airport is different



A central element of the Quality of Life Study is the comparison of four airports in Germany. The scientists wanted to find out whether people living near Frankfurt, Cologne/Bonn und Stuttgart airports and around the planned Berlin-Brandenburg airport felt equally annoyed at similar noise levels. The four airports differ in several respects:

- In Frankfurt there has been a curfew on scheduled take-offs and landings between 23:00 and 05:00 hrs since October 2011. In addition to this, the noise background changed in the same month because a new runway went into operation. This is why a change effect was expected here.
- There are no flight movements as yet at Berlin-Brandenburg airport – at the time of the survey the only air traffic noise in the region came from Berlin's Schönefeld airport. But when the airport is opened there will be a change in



the noise background in the region. This could lead to a change effect.

- In Cologne/Bonn there are also take-offs and landings at night. There are no plans for expansion.
- In Stuttgart there are no flights at night and, as in Cologne/Bonn, there are no plans for expansion.

The NORAH team asked several thousand people in the environs of the four airports how annoyed they felt on a five-point scale by the air traffic noise over the previous twelve months, and how they assessed their own quality of life and sleep quality. 1 stood for "absolutely no annoyance" and 5 for "extremely high annoyance". Acoustic experts also calculated the continuous sound level for the specific addresses of the study participants.

Where do most of the "highly annoyed" persons live?

Who feels particularly affected by aircraft noise – and why do the regions differ so significantly? The NORAH study shows that in the Rhine-Main area, there are already significantly more "highly noise-disturbed" people at comparatively low continuous noise levels than at the airports in Cologne/Bonn, Stuttgart, and Berlin-Brandenburg.

[Learn more \(https://www.laermstudie.de/en/results/results-of-the-quality-of-life-study/location-comparison/where-do-most-of-the-highly-annoyed-persons-live/\)](https://www.laermstudie.de/en/results/results-of-the-quality-of-life-study/location-comparison/where-do-most-of-the-highly-annoyed-persons-live/)

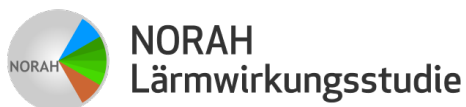
How residents around airports assess their sleep quality

How does aircraft noise affect people's sleep – and what is the real impact of a night flight ban? The NORAH study shows that in the Rhine-Main area, people in 2011 felt significantly more disturbed in their sleep than at the other locations. After the introduction of the nighttime quiet period, the ability to sleep through the night improved, especially at higher noise levels. However, at lower continuous noise levels, people in the Rhine-Main area remained particularly affected, as additional analyses of sleep quality demonstrate.

[Learn more \(https://www.laermstudie.de/en/results/results-of-the-quality-of-life-study/location-comparison/how-residents-around-airports-assess-their-sleep-quality/\)](https://www.laermstudie.de/en/results/results-of-the-quality-of-life-study/location-comparison/how-residents-around-airports-assess-their-sleep-quality/)

NORAH Quality of Life Study: Documents for Download

- [NORAH-Lebensqualitätsstudie: Wissenschaftlicher Ergebnisbericht \(German\) PDF, 19 MB](#)



(https://www.laermstudie.de/media/download/lebensqualitaet_wiss_ergebnisbericht.pdf)

- [NORAH-Lebensqualitätsstudie: Zusammenfassung \(German\) PDF, 428 kB](https://www.laermstudie.de/media/download/lebensqualitaet_zusammenfassung.pdf)
(https://www.laermstudie.de/media/download/lebensqualitaet_zusammenfassung.pdf)
- [NORAH-Lebensqualitätsstudie: Stellungnahme WBQ \(German\) PDF, 125 kB](https://www.laermstudie.de/media/download/lebensqualitaet_stellungnahme_wbq.pdf)
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Do you have any questions?

Icon Kontakt Lärmstudie

Get in touch with us

Gemeinnützige Umwelthaus GmbH

Rüsselsheimer Str. 100

65451 Kelsterbach

Germany

Tel. +49 6107 98868-0

Fax +49 6107 98868-19

norah@umwelthaus.org