

WRIGHT PATTERSON AIR FORCE BASE, OHIO AICUZ Program Overview

AICUZ Program Overview

The Department of Defense's (DoD's) Air Installations Compatible Use Zones (AICUZ) Program balances the needs of military air and ground operations with community concerns by focusing on Air Force's policy of promoting public health, safety, and general welfare in areas surrounding air installations while seeking development that is compatible with the defense flying mission.

The 2022 WPAFB Study is an update of the 1995 AICUZ Study.

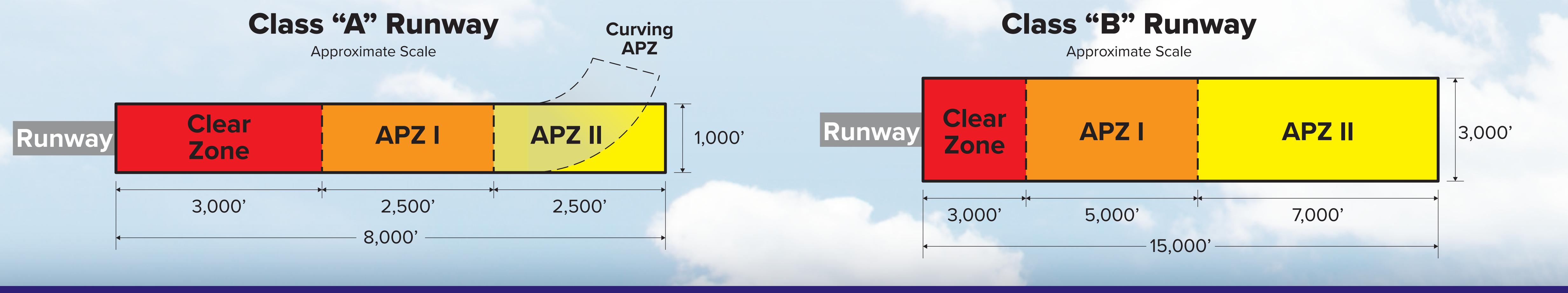


Noise Metrics and Contours

Under the AICUZ Program, the DoD provides noise zones to define aircraft noise exposure, using the Day-Night Average Sound Level (DNL). The DNL metric is based on the number of average daily aircraft operations over a 24-hour period. A 10-decibel (dB) adjustment is included in the DNL metric for aircraft noise occurring between 10:00 p.m. and 7:00 a.m., when people are more sensitive to noise and general ambient noise is limited.

Clear Zones and Accident Potential Zones

The DoD provides Clear Zones (CZs) and Accident Potential Zones (APZs) for Class A and Class B Runways as planning tools for local agencies. CZs and APZs define the areas where an aircraft accident is likely to occur, if an accident occurs.



AIR INSTALLATIONS COMPATIBLE USE ZONES STUDY

Land Use Compatibility

Recommendations for land use within noise zones, CZs, and APZs are shown in the tables below. In general, the AICUZ Program guidelines recommend that noise-sensitive land uses be placed outside of high noise zones and people-intensive uses not be placed within APZs.

Generalized Land Use Category	Noise Zone (dB DNL)								
	<65	65-70	70-75	75-80	80-85	85+	CZ	APZ I	APZ I
Residential	Yes	No ²	No ²	No	No	No	No	No	No
Commercial	Yes	Yes	Yes ⁴	Yes ⁴	No	No	No	Yes ⁴	Yes
Industrial	Yes	Yes	Yes	Yes	Yes ⁴	No	No	Yes ⁴	Yes
Public/Quasi-Public	Yes	Yes ⁴	Yes ⁴	Yes ⁴	No	No	No	No	Yes
Resource Production and Extraction	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Ye
Open/Agriculture/Low-Density	Yes	Yes ⁴	No	Yes ⁴	Yes				
Transportation/Communication/Utilities	Yes	Yes	Yes	Yes	Yes	Νο	No	Yes⁴	Ye
Vacant/Undeveloped	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Ye

1 This generalized table demonstrates the land compatibility guidelines. Refer to Appendix A for use in determining land use compatibility Residential land uses within the greater than 65 dB DNL noise zone are considered incompatible. However, if residential uses are considered essential, noise-attenuation measures should be incorporated into the building structures.

8 Residential land uses in APZ II are considered incompatible, with the exception of density less than two dwellings per acre.

4 Compatible with restrictions.

Notes:

