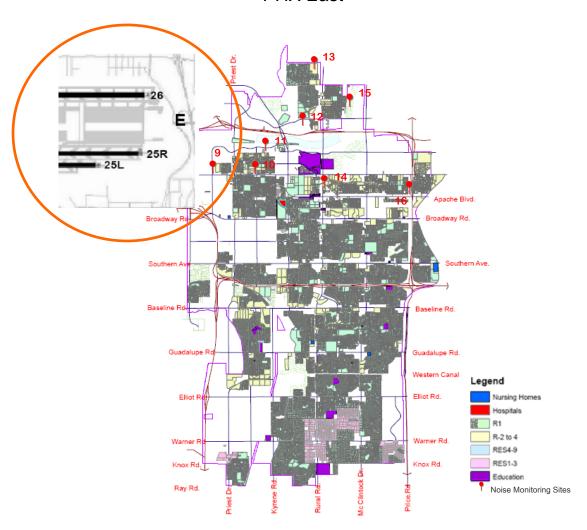


2012 3rd Quarterly Noise Monitoring Report

PHX East



10/08/12

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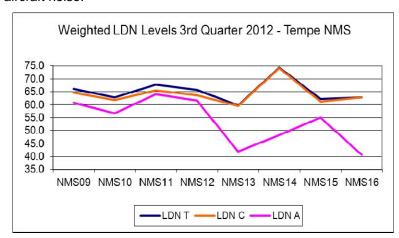
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Aviation Noise Monitoring

The Phoenix Sky Harbor International Airport Noise and Flight Track Monitoring System (NFTMS) has 8 fixed Noise Monitoring Sites (NMS) in Tempe located in neighborhoods around the Town Lake/ Rio Salado area in proximity of the 65 DNL noise exposure contour line for the airport. Through an agreement made with the City of Phoenix the City of Tempe can access noise monitoring data collected by the system and use supporting software that filters the data to indentify the noise energy contributions attributed to aircraft operations over areas the monitors are located.

A. Weighted Sound Exposure Levels

Average monthly sound exposure levels of aircraft events, are calculated from the Ldn or day-night average sound level also called DNL. This is a summary description of noise based on long-term equivalent level (Leq) with a penalty of 10 dB (A) added for nighttime sound occurring between 22.00-07.00 hours. Average sound levels created by aircraft, Ldn A, are a product of detection tools built in to the NFTMS, which separate events registered at the monitoring site. The ambient sound events from all sources picked up at a monitoring site other than from aviation is the Ldn C. The sound events the NFTMS attributes to aircraft sound is the Ldn A. Ldn T is an expression of the total sound from all sources including aircraft noise.



Ldn A decreases with the distance to the airport's runways. The monitored standard deviations are naturally higher for the monitors located at sites in Tempe located outside the downtown area south of the riverbed, where the distances to the aircraft as one of the sources of noise in the local environment are greater.

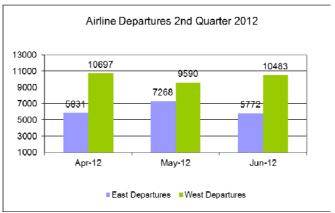
B. East – West Equalization of Noise Burden

The airport Air Traffic Control Tower is directing large carrier departure traffic with the goal of accomplishing a 50/50 annualized east west split. A procedure for noise mitigation over Tempe delay air carrier turns away from the Salt River to the airspace over the Highway 202/101 intersection. There is no similar constraint for departure headings towards the west.

Departure flow east and west are determined over the year by daily and seasonal changes in wind directions, and the cities of Tempe and Phoenix has agreed that airport should attempt to distribute the noise burden from departing large commercial aircraft equally east and west on an annual basis.

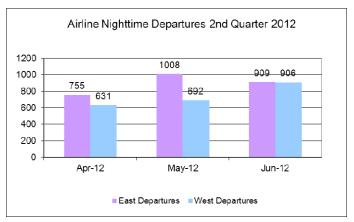
The flow of commercial air carrier and corporate jet departures went more evenly east and west during the third quarter of 2012. East departures increased by 4.4% and west departures decreased by 8.7% compared to the second quarter of 2012.



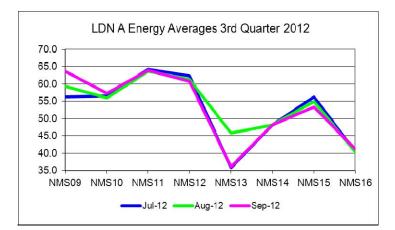




Over the quarter as a whole departures occurring between 10:00 p.m. to 7:00 a.m. decreased towards the east with 1.2% and towards the west by 6.4% compared to the second quarter of 2012.

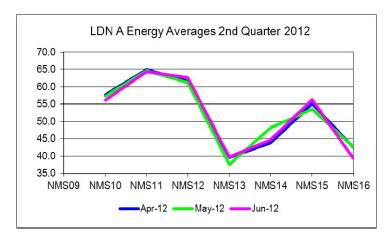


The average monthly Ldn A sound energy level at the north Tempe monitor, NMS 13, picked



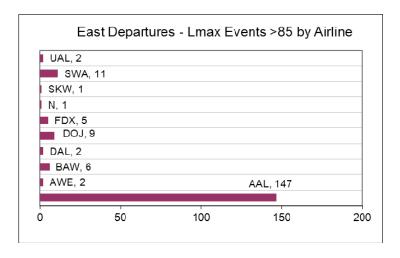
up during the third quarter reflecting the higher volume of air traffic over Tempe during the month of July and August.

NMS 14 was vandalized in July and out of service in August and September 2012.

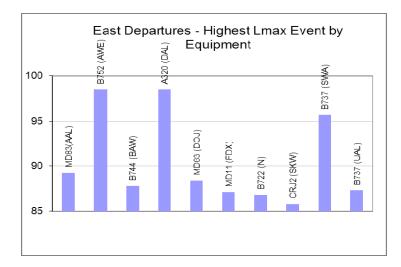


C. Registered Maximum Sound Energy Levels

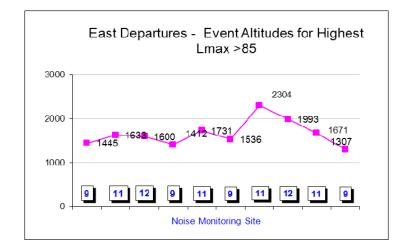
The number of higher sound energy level events attributed to airline operations varies each month, which influences monthly Ldn average levels. Lmax is the maximum A- weighted sound level, dB (A) registered during a particular sound event. A-weighted means the sound is measured at frequencies that reflect the sensitivity ranges of the human ear.



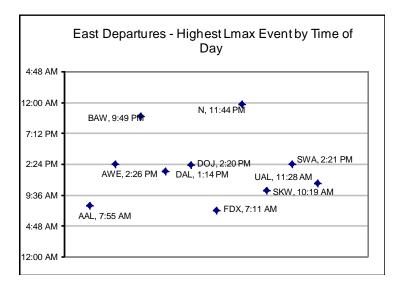
Another quarter with relatively fewer operations by American Airlines which has the most registrations of high Lmax levels over Tempe.



The highest events, Lmax 98.5 dBA, were created by а US Airways B752 departing over 5th Street and Priest Drive on September 17, 2012 and a Delta A320 over 1st Street close to Mill Avenue on July 15, 2012.



The highest Lmax at the lowest altitude was reached by a United B737 carrier.



Information about the NFTMS and the City of Tempe agreement with the City of Tempe are available at www.tempe.gov/aircraftnoise.