

# Part 161 Study for Los Angeles International Airport

Los Angeles World Airports

Public Workshop November 13, 2012



aph courtesy of Ernest Hori



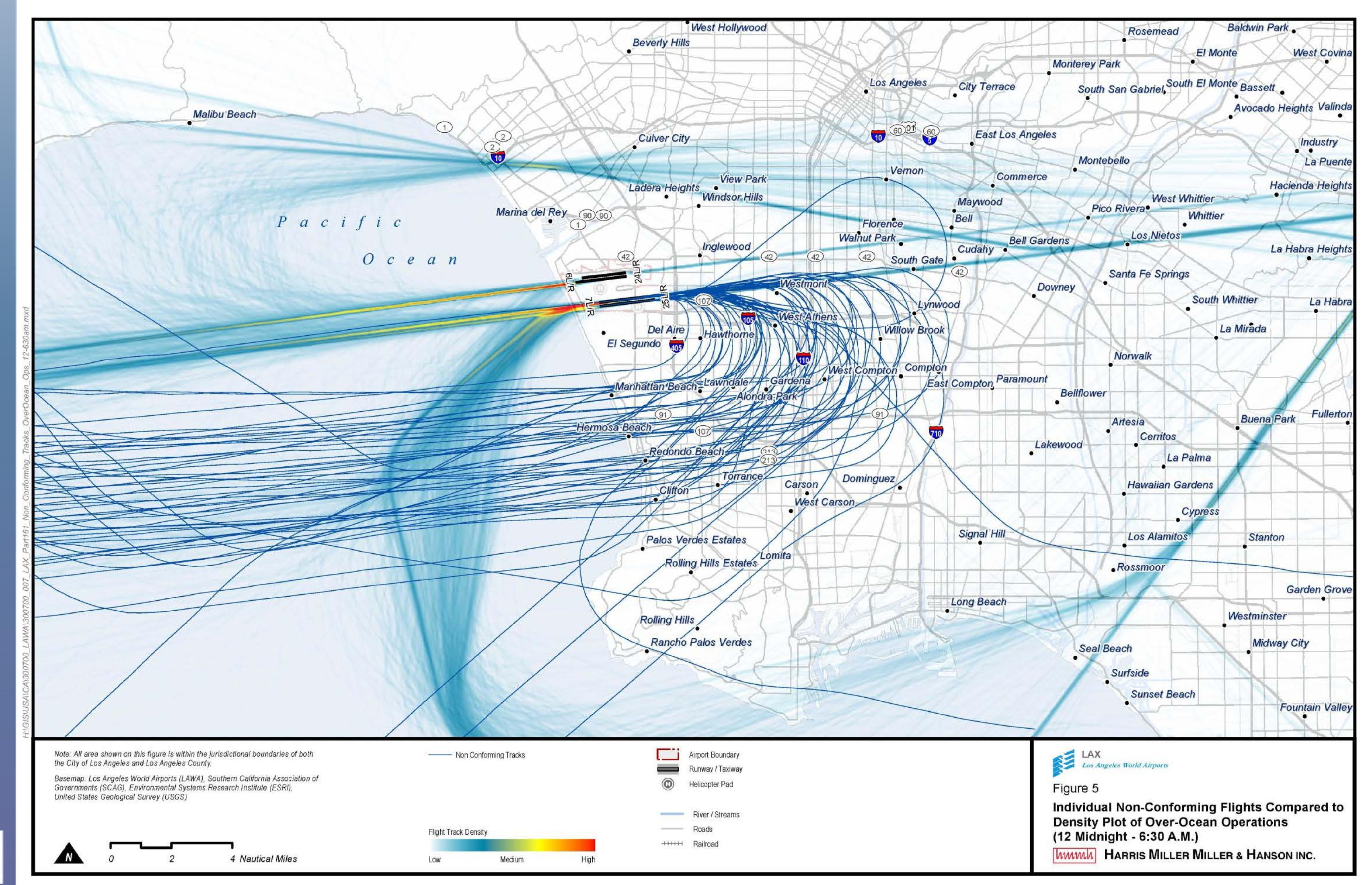
# Proposed Restriction

- LAWA proposes to:
  - Restrict the easterly departure of aircraft, with certain exemptions, from midnight to 6:30 a.m. when the airport is in Over-Ocean Operations or Westerly Operations.
- If FAA approves the proposed restriction, LAWA will proceed with
  - Environmental analysis under CEQA
  - BOAC and City Council approval of a City Ordinance





# Proposed Restriction – Affected Flights



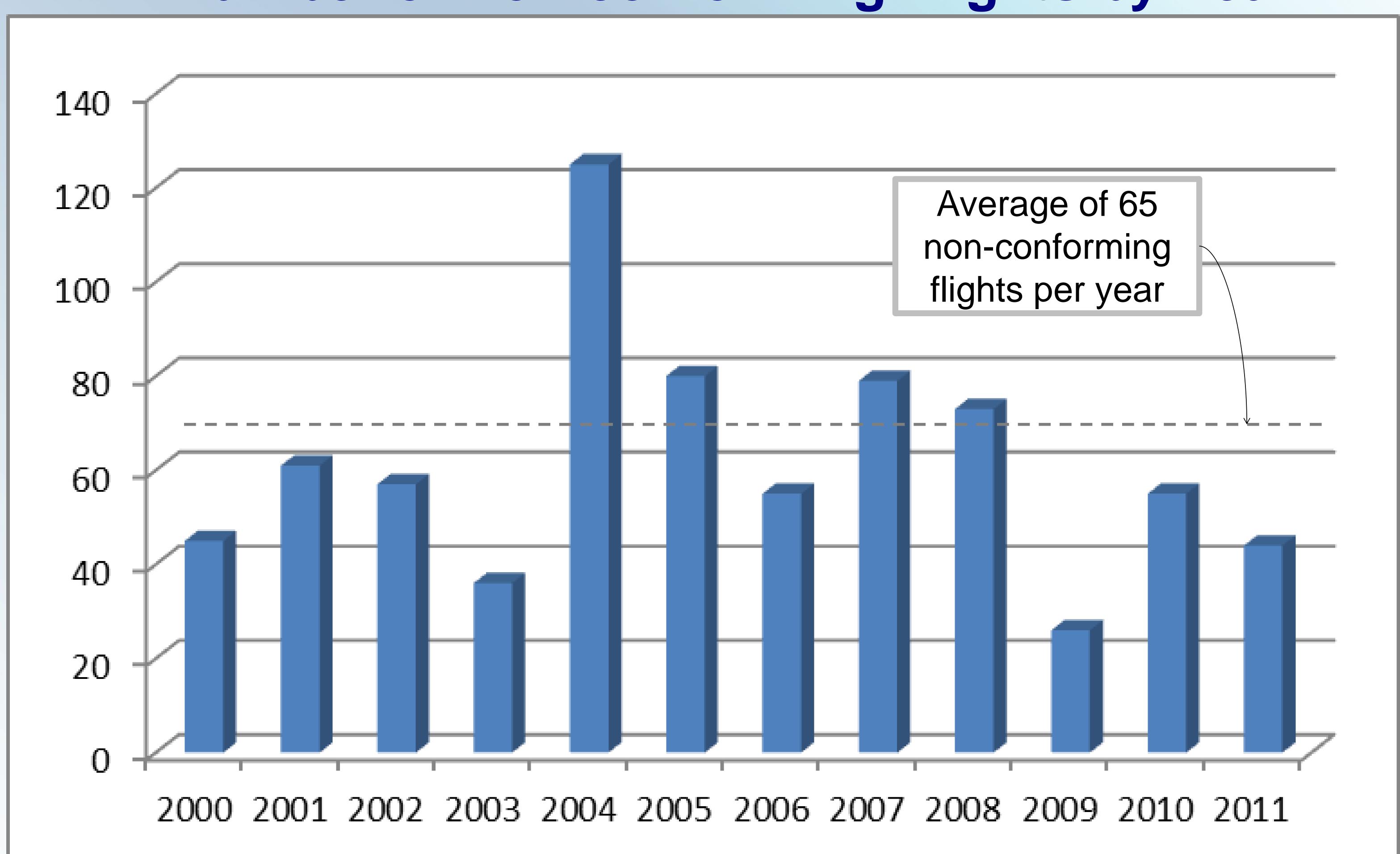




# Proposed Restriction – Affected Flights

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#### Number of Non-conforming Flights by Year





Note: Year 2000 includes data only from June through December



# Proposed Restriction – Statutory Conditions

www.hmmh.com

### FAA requires that the proposed restriction:

- √is reasonable, nonarbitrary, and nondiscriminatory
- would not create an undue burden on interstate or foreign commerce
- would maintain safe and efficient use of navigable airspace
- would not conflict with any existing federal statute or regulation
- was subject to adequate opportunity for public comment
- ✓ does not create an undue burden on the national aviation system





#### Nonrestrictive Alternatives

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### Continue to pursue voluntary compliance through:

- Over-Ocean operations from midnight to 6:30 am
  - Weather and operational conditions permitting
- Continuous monitoring and reporting of east departures at night when in
  - Over-Ocean operations
  - Westerly operations
- Regular communication with and education of operators
- As recommended by the LAX/Community Roundtable
  - LAWA sends letters to operators that depart east during Over-Ocean or Westerly operations that request an explanation
  - Started September 2011

LAWA concludes that nonrestrictive mechanisms are insufficient to obtain compliance with this measure.





# Aircraft Operations Forecast – 2012 and 2017

- Projected annual operations
  - **2013: 594,000**
  - **2018: 649,000**
- Forecasts used multiple data sources
  - LAX airport records
  - U.S. Department of Transportation data
  - Passenger and all-cargo aircraft schedules
  - Multiple FAA sources
  - Airline fleet data
  - Industry forecast from Boeing, Airbus and the FAA
- FAA found the forecasts were consistent with its December 2011 Terminal Area Forecast (TAF)





#### Benefits and Costs of Restriction

- Potential benefits include
  - Fewer people exposed to aircraft noise overall
  - Fewer people awakened
  - Reduced fuel consumption from more direct routing
- Potential costs include
  - Revenue associated with the offloading of cargo or passenger baggage to reduce takeoff weight so aircraft can safely depart to the west with slight tailwind
  - Offloaded cargo and/or baggage would fly on a later flight





# Supplemental Analysis

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- Sleep Disturbance Estimated Annual Awakenings
  - Based on American National Standards Institute (ANSI)
     Standard S12.9-2008/Part 6

"Methods for Estimation of Awakenings Associated with Outdoor Noise Events Heard in Homes"

- Up to 185,000 fewer awakenings annually
- Over 8,000 awakenings on particular nights with nonconforming operations
- Environmental Justice
  - No significant change to 65 dB CNEL contour
  - Reduced awakenings with proposed restriction
    - Approximately 60% of the people potentially awakened by non-conforming flights are minority or low income





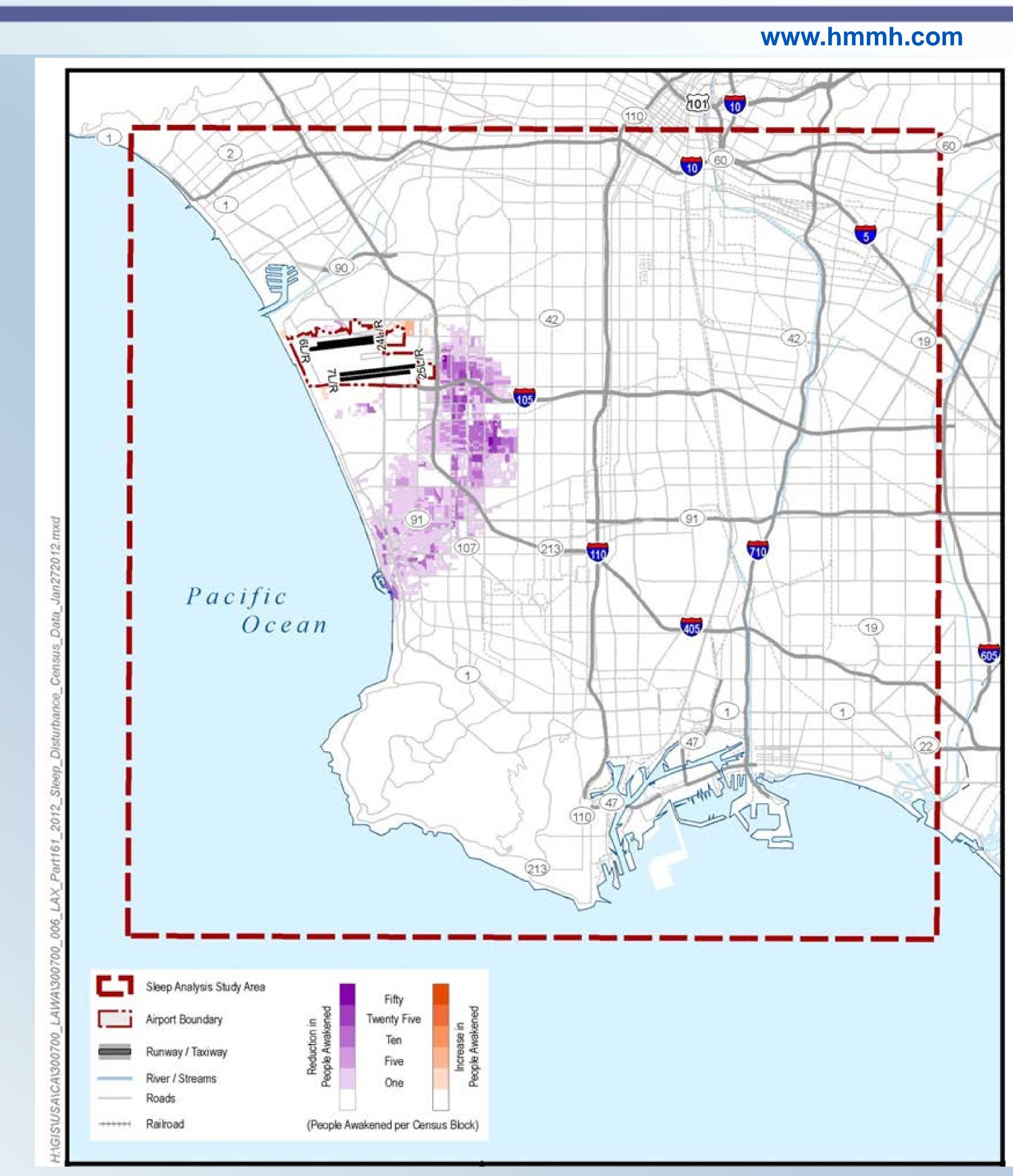
# Supplemental Analysis

Geographic distribution of changes in awakenings

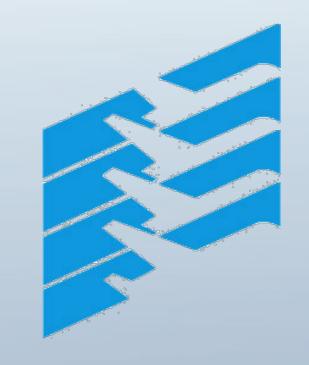
Extensive areas receive benefit

Darker areas are closer to the airport and under the most common flight paths

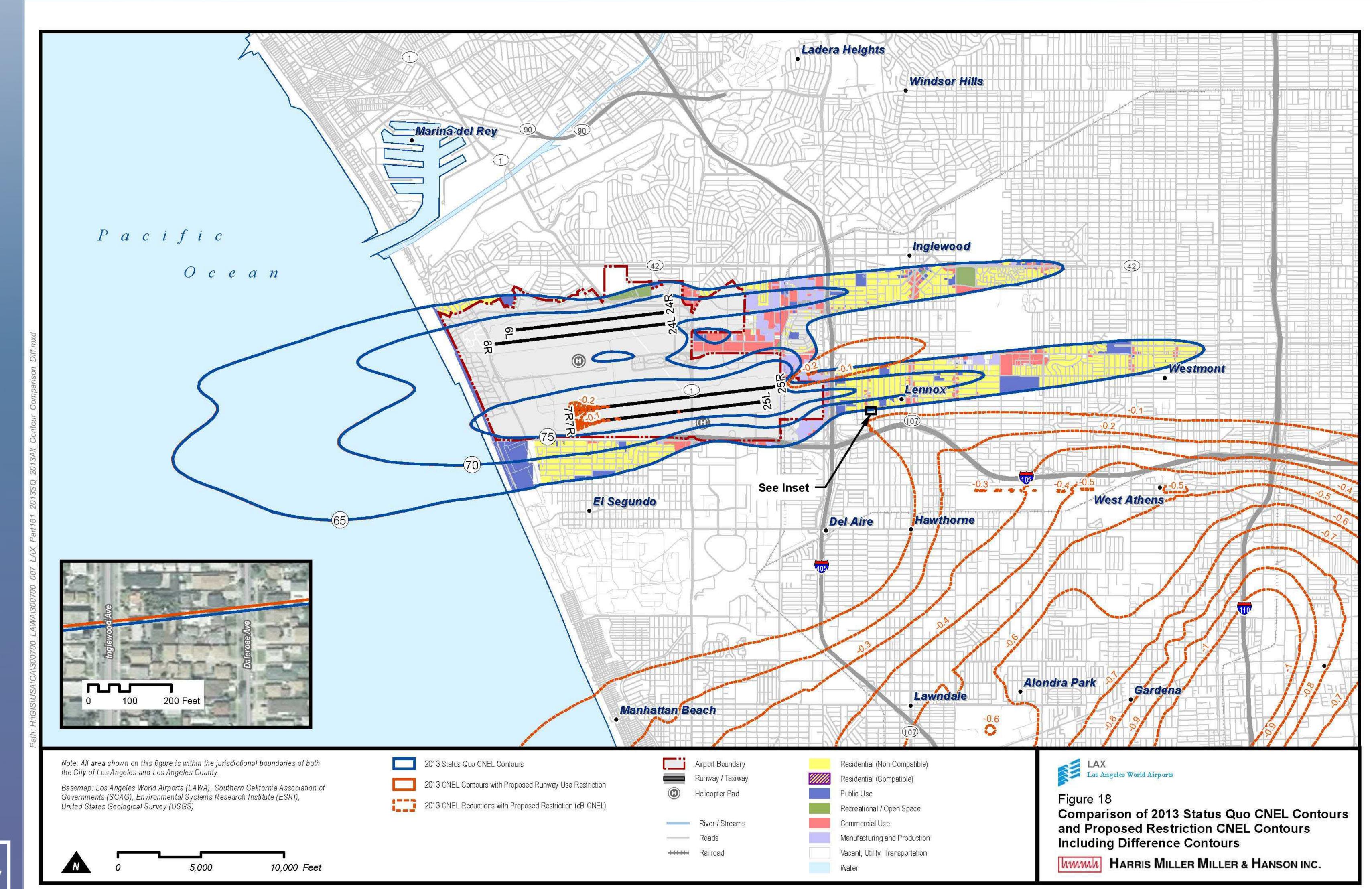
Graphic depicts estimated number of awakenings from the non-conforming operations on January 27, 2012.



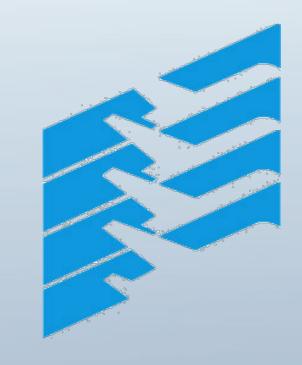




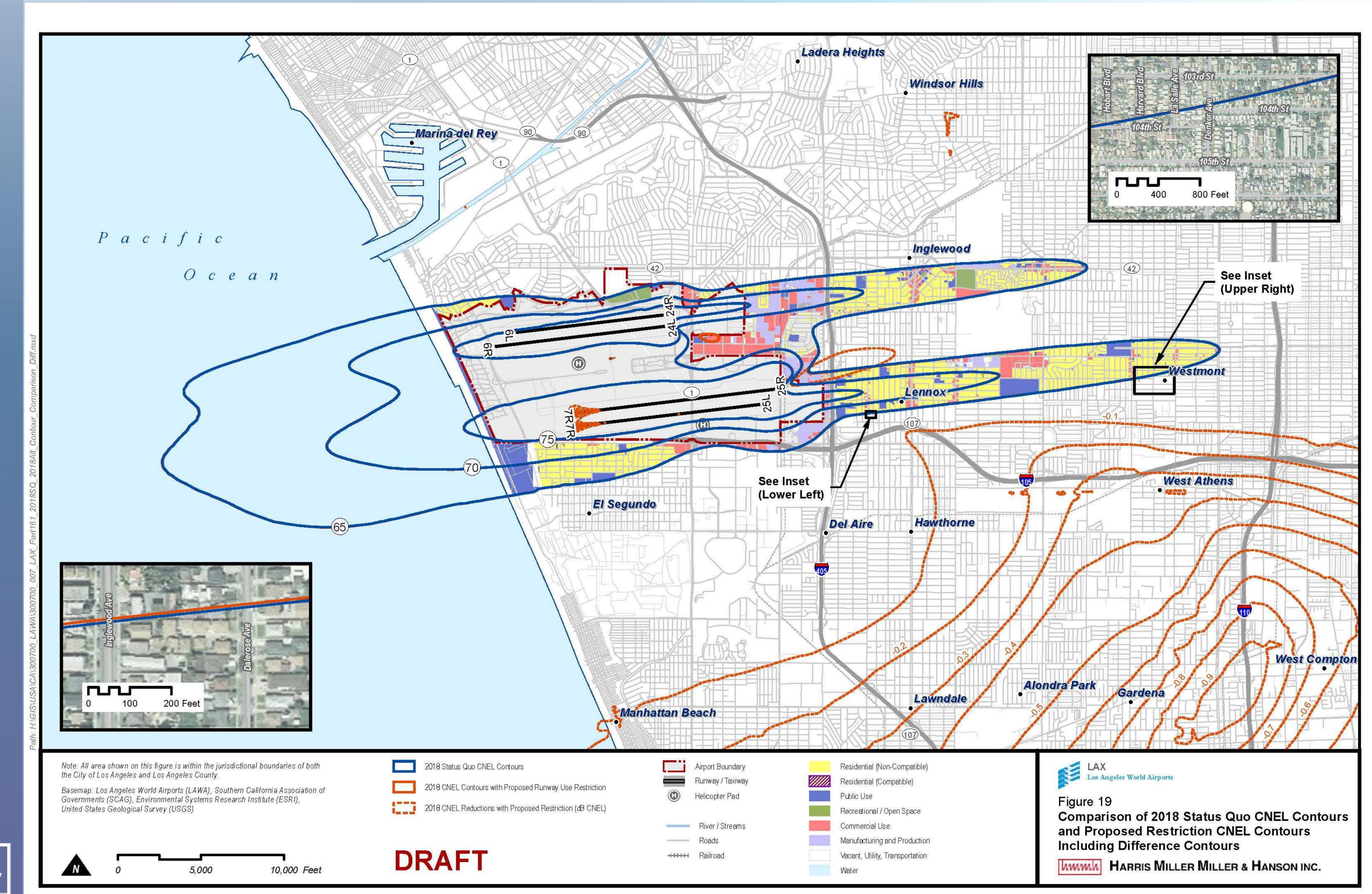
### Noise Contours – 2013



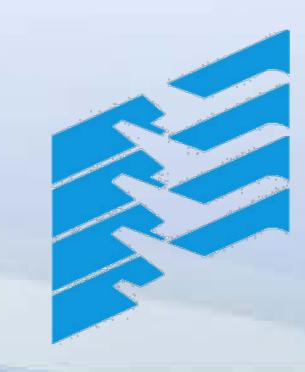




#### Noise Contours – 2018







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Public Comments
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