

Status Report

Noise Mitigation Programs

Presentation to the LAX/Community
Noise Roundtable

May 14, 2014



*Los Angeles
World Airports*

*Environmental Services Division
Sound Insulation Grant Program*



Aircraft Sound Insulation Programs at LAX

- ✈ Land uses around airports such as residences, schools, hospitals and places of worship, with a Community Noise Equivalent Level (CNEL) of 65 dB, are generally considered “incompatible” with the airport
- ✈ Los Angeles International Airport (LAX) has an FAA-approved Noise Compatibility Program, which makes certain residential areas eligible for FAA funding
- ✈ Federal (Part 150), State (Title 21, 1970) and Local (Reso 21481, 2001) rules provide eligibility and/or funding structure

LAX Program Participants

Residential Programs

- City of El Segundo
- City of Inglewood
- City of Los Angeles
- County of Los Angeles

School Programs

- Inglewood Unified School District*
- Lennox School District

*waiting for FAA approval of PFC application

Program Governance and Funding

Stipulated Settlement Agreement (2006)

- Provides up to \$240M in noise mitigation funding through 2015 for Cities of El Segundo, Inglewood, County of LA

Community Benefits Agreement (2005)

- Minimum Funding of \$4.275M for County of LA and City of Inglewood (each \$4.275M)

Supplemental Funding Policy (BOAC 1987, 1991, 1998)

- LAWA will provide funds to supplement any FAA-approved Grants, and may provide additional funds above this local match, as available

How Noise is Mitigated

Typical Sound Insulation Techniques

Residential

- Replacing windows, and doors (including hardware and weather-stripping)
- Adding insulation in attics, and installing baffles at attic vents
- Installing glass fireplace doors, and chimney top dampers

Schools

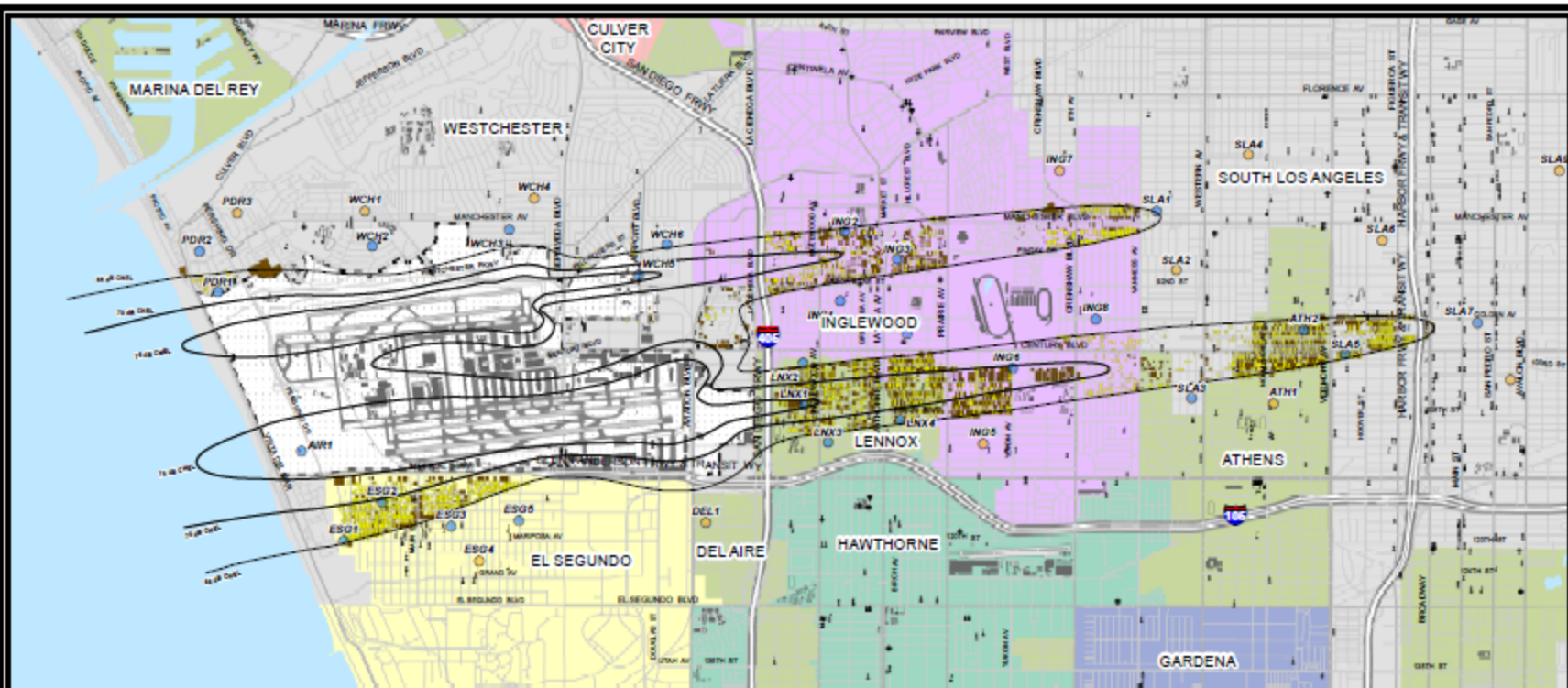
- Replacement of doors and new threshold for the exterior classroom doors
- Install new windows where wood replacement or dry wall-blocked windows currently exist
- Exterior wall insulation and interior sound panels as needed

Both

- Mechanical system upgrades (HVAC/PVS) with sound traps and vibration control as needed
- Target of 45dB interior noise level, and/or a 5dB reduction

LAWA's Sound Insulation Grant Program

- Program Monitoring
- Stakeholder Outreach
- Assistance to Jurisdictions
- Provided funding of \$25.52M in last 12 months
- Assessment of impact of FAA clarification of RSI and Schools Insulation programs (PGL 12-09)



ANNUAL CNEL VALUES (dBA)

AT01	ES01	ES02	ES03	ES04	ES05	ES06	ES07	ES08	ES09	ES10
65	68	72	77	84	91	97	103	109	115	121
WCH1	WCH2	WCH3	WCH4	WCH5	WCH6	WCH7	WCH8	WCH9	WCH10	WCH11
63	62	61	57	76	84	92	97	103	109	115
LN01	LN02	LN03	LN04	LN05	LN06	LN07	LN08	LN09	LN10	LN11
75	83	85	88	91	94	97	100	103	106	109

TECHNICAL NOTES

*The annual noise values for 2013 are not a forecasted value since it is calculated using the last four quarters of data.

NOTES

Noise Contours are generated using SoundContour which supports the Federal Aviation Administration's Integrated Noise Model (INM) version 7.0. The modeled contours are based on unobstructed information gathered for the 12 month period ending December 31, 2013. The Sound Contour program is not overly sensitive to the location of buildings in the modeled area. Noise Monitoring Station (NMS) annual average sound levels (CNEL) Source of information include: FAA's annual State Terminal Report (STR) Data and FAA's Tower Traffic Records. Contouring and calculations are based on software using 2010 aircraft performance, supplemented with local land use updates. Population estimates reflect the 2010 census data, including updates 2010 additions, for persons per dwelling unit. The noise barrier database used to generate this report utilized program made through LAWA's Noise Barrier Design Program (generally the Land Use Mitigation Program) through December 31, 2013. Map projection is State Plane Feet based on North American Datum of 1983 (NAD83), and is based on Zone 11 of the California Coordinate System of 1983. Reproduced with permission granted by THE CALIFORNIA MAPS. This map is based on data supplied by THE CALIFORNIA MAPS. It is subject to change or expiration at any time without notice, whether the present use is made without permission.

LEGEND

- Residential - Single Family
- Residential - Multi-Family
- Residential - Mobile Home
- Airport Property
- Landmarks
- Noise Contours
- Streets
- Noise Monitor (Required for Title 21)
- Noise Monitor (Not required for Title 21)
- Churches
- Hospitals
- Schools

Los Angeles World Airports
Los Angeles International Airport

California State Airport Noise Standards Quarterly Report



LAWA Noise Management
Environmental Affairs Division, Katherine Perkins
Checked by: Dan H. Young, Environmental Supervisor II
Prepared by: Joanne T. Chiu, Environmental Specialist II
Report Date: February 20, 2014

Yearly Progress for LAWA Sound Insulation Programs

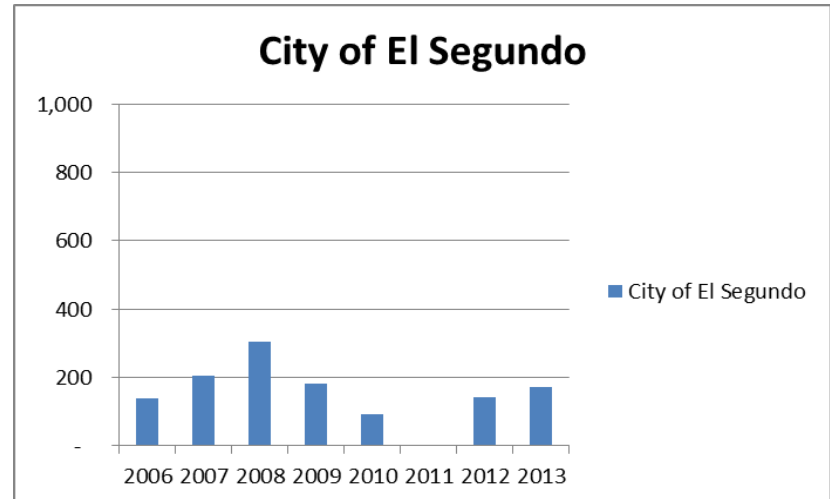
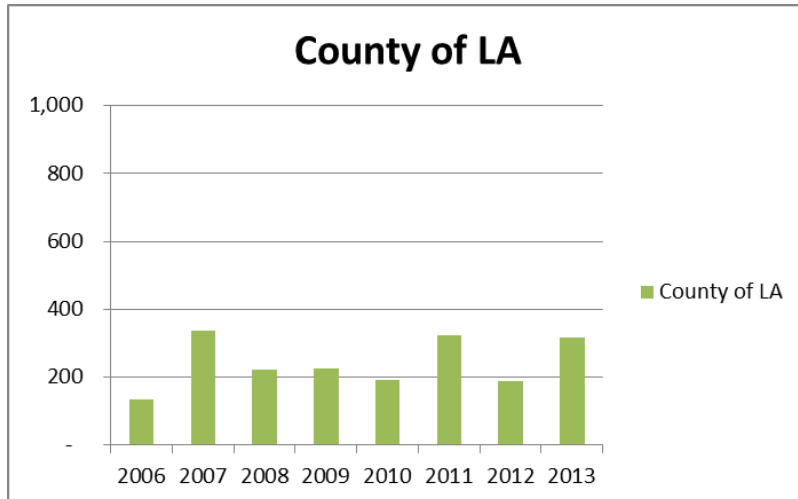
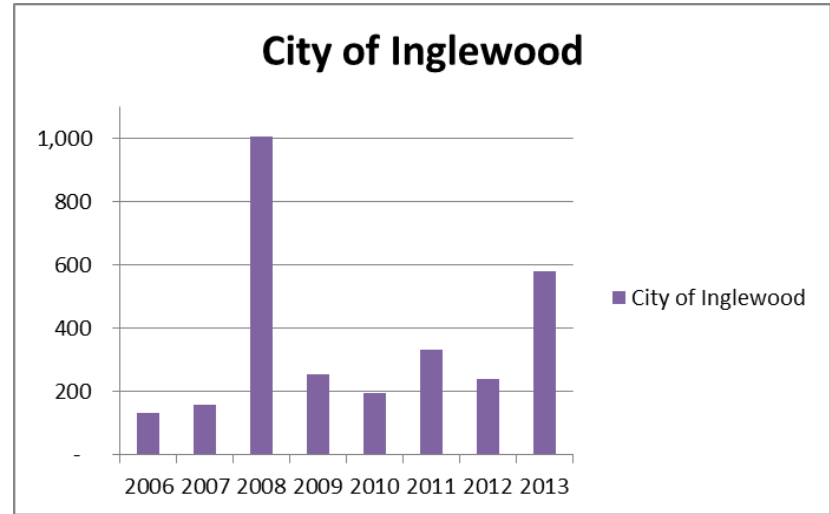
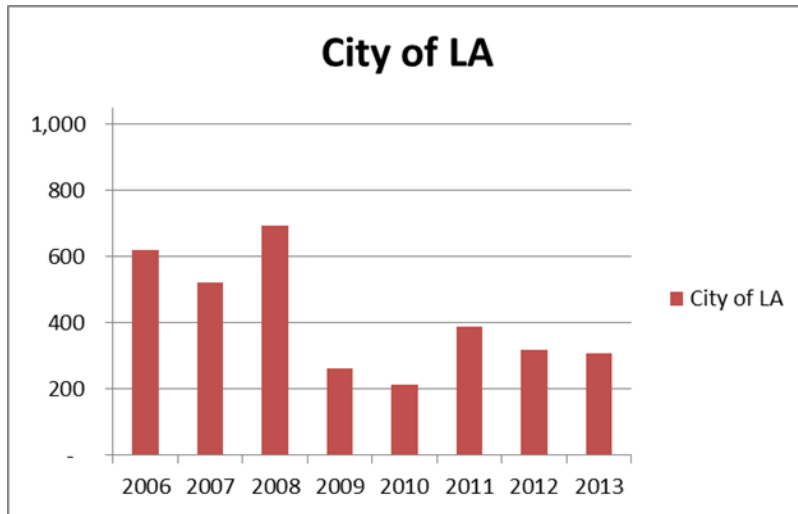
Los Angeles World Airports' Sound Insulation Grant Programs - Status Update

Jurisdiction	Total Units Eligible	Units Completed Pre-2006	Program Production Rates 2006 - 2013									Total Mitigated 2006-2013	All Totals Mitigated Start-2014	Total Units Remaining	Percent of Units Cmpltd
			Total Mitigated												
			2006	2007	2008	2009	2010	2011	2012	2013	2014				
City of El Segundo	4,537	309	120	204	303	182	112	0	142	172	0	1,235	1,544	2,993	34%
City of LA	8,200	3,991	619	523	694	261	215	390	320	310	N/A	3,332	7,323	877*	100% *
County of LA	6,200	779	133	337	222	225	193	323	187	316	186	2,122	2,901	3,299	47%
City of Inglewood	8,700	1,763	133	159	1,007	253	195	332	238	580	255	3,152	4,915	3,785	56%
City of Ontario	2,418	813	58	136	12	87	35	92	146	106	0	672	1,485	933	61%
Totals	30,055	7,655	1,063	1,359	2,238	1,008	750	1,137	1,033	1,484		10,513	18,168	11,010	60%

1) City of LA has finished their program. Remaining units are declines / no response.

2) City of Ontario - FAA will not provide additional funds until NEM is updated

Annual Production Rates 2006-13 for Residential Sound Insulation



City of Los Angeles

Program Status: 1997-2013

City of Los Angeles	
Total Funding (1997-2013)	\$156,000,000
Total Unit Portfolio	8,200
Completed	7,323 units or 89%

Projected to be Completed in 2014

Recent Actions:

- Funding of \$2.163M funding provided in November 2012 for 112 units in CD 8 and CD 11 will be completed in June 2014.

City of El Segundo

Program Status: 1993-2013

City of El Segundo	
Total Funding (1993-2013)	\$97,969,856
Total Unit Portfolio	4,537
Completed	1,544 units or 34%

2013	
No. of Units Bid	101
Contracts Awarded	4
Avg Cost per Home	\$38,129
Avg # of Units per Contract	25

Recent Actions:

- \$9.225M in LAWA funding provided in April 2014 combined with FAA funds of \$5M for 329 units. Construction audit underway.

City of Inglewood

Program Status: 1992-2013

City of Inglewood	
Total Funding (1992-2013)	\$319,165,119
Total Unit Portfolio	8,700
Completed	4,915 units or 56%

2013	
No. of Units Bid	650
Contracts Awarded	11
Avg Cost per Home	\$28,983
Avg # of Units per Contract	60

Recent Actions:

- Available funding of \$8M was provided to the City in 2013. Performance audit of the program completed in April 2014.

County of Los Angeles

Program Status: 1992-2013

County of Los Angeles	
Total Funding (1992-2013)	\$128,805,000
Total Unit Portfolio	6,200
Completed	2,901 units or 46%

2013	
No. of Units Bid	541
Contracts Awarded	13
Avg Cost per Home	\$25,321
Avg # of Units per Contract	41

Recent Actions:

- \$9.22M in LAWA grant provided in December 2013 for 272 units

School Mitigation Programs

Lennox School District

- Per Settlement
 - 11 Schools and up to \$111M
- FAA approved a PFC application for \$35M
- December 2011 \$10M
 - 1st Work Plan – 5 Schools
- June 2014 \$10M
 - 2nd Work Plan – 4 schools (continuation of 1st Work Plan)
 - Completed Schools: Huerta Elementary, Animo Leadership H.S.
 - In Progress: Felton, Jefferson Elementary, Jefferson ORG, Lennox Middle School, and Buford Elementary

School Mitigation Programs

Inglewood Unified School District

- Per Settlement

 - 10 Schools

 - Up to \$118M

- No funding received to date

- PFC application submitted to the FAA in August 2013 for \$64M. Determination delayed for additional requests for information. Status pending.

Questions?

