

# 2005 ANNUAL REPORT

## O'Hare Noise Compatibility Commission



Arlington Heights  
Bartlett  
Bellwood  
Chicago  
Cook County  
Des Plaines  
Elmwood Park  
Franklin Park  
Hoffman Estates  
Maywood  
Melrose Park  
Mount Prospect  
Niles  
Norridge  
Northlake  
Oak Park  
Palatine  
Park Ridge  
River Forest  
River Grove  
Rolling Meadows  
Rosemont  
Schaumburg  
Stone Park  
School District 59  
(Elk Grove Village, Des Plaines,  
Arlington Heights, Mount Prospect)  
School District 63  
(Des Plaines, Glenview,  
Morton Grove, Niles)  
School District 80  
(Norridge)  
School District 81  
(Schiller Park)  
School District 84  
(Franklin Park)  
School District 84.5  
(River Grove)  
School District 85.5  
(River Grove)  
School District 86  
(Harwood Heights)  
School District 87  
(Berkeley, Northlake, Bellwood)  
School District 88  
(Bellwood, Melrose Park, Stone Park)  
School District 89  
(Melrose Park, Maywood, Broadview)  
School District 214  
(Elk Grove Village, Des Plaines, Arlington  
Heights, Mount Prospect, Rolling Meadows,  
Prospect Heights, Wheeling, Buffalo Grove)  
School District 234  
(Norridge, Harwood Heights)  
School District 299  
(Chicago Public Schools)  
School District 401  
(Elmwood Park)



**2005**  
ANNUAL REPORT

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# ONCC Membership

## Arlington Heights

Mayor Arlene J. Mulder (Chairperson)  
*Alternates:* Steven Bohner, Bert Rosenberg

## Bartlett

Mayor Catherine Melchert  
*Alternates:* John Kavouris, Steven Bosco

## Bellwood

Mayor Frank Pasquale  
*Designee:* Roy Mc Campbell

## Chicago

Aviation Commissioner Nuria Fernandez  
*Alternate:* Patrick Harney

## Cook County

President John Stroger  
*Designee:* Frank Damato  
(Residential Committee Chair)  
*Alternate:* Trudy Ziaja

## Des Plaines

Mayor Anthony Arredia  
*Alternate:* Thomas Becker

## Elmwood Park

Mayor Peter Silvestri  
*Alternates:* Alan Kaminski, John Dalicandro

## Franklin Park

Mayor Daniel Pritchett

## Hoffman Estates

Mayor William McLeod  
*Alternate:* Michael Hankey

## Maywood

Mayor Henderson Yarbrough  
*Alternate:* Richard Lopez

## Melrose Park

Mayor Ronald Serpico  
*Designee:* Carlotta Ariola

## Mount Prospect

Mayor Irvana Wilks  
*Alternates:* Gerald Farley, David Strahl

## Niles

Mayor Nicholas B. Blase  
*Alternates:* Joe Annunzio, Steven Vinezeano

## Norridge

Mayor Earl Field  
*Designee:* Judith Dunne Bernardi

## Northlake

Mayor Jeffrey Sherwin  
*Alternate:* Paul Straube

## Oak Park

Mayor David Pope  
*Alternates:* Pete Dame, Galen Gockel

## Palatine

Mayor Rita Mullins  
(Technical Committee Chair)  
*Alternates:* Robert Kenny, Reid Ottesen

## Park Ridge

Mayor Howard Frimark  
*Alternates:* Jeannie Markech, Jeffrey Cox

## River Forest

Mayor Frank Paris  
*Alternate:* Dale Rider

## River Grove

Mayor Marilyn May  
*Alternates:* Joseph Compell, Rod Apida

## Rolling Meadows

Mayor Kenneth Nelson  
*Alternates:* Barry Krumstok, Glenn Adams,  
Thomas Melena

## Rosemont

Mayor Donald Stephens  
*Alternates:* Jack Dorgan, Kevin Lamborn

## Schaumburg

Mayor Al Larson  
*Alternate:* June Johnson

## Stone Park

Mayor Beniamino Mazzulla  
*Alternates:* Robert Gonzini, Marco Paz,  
Loretta Teetes

## School District 59

Superintendent Daniel Schweers  
*Alternates:* Tony Rossi, Ruth Gloede

## School District 63

Superintendent Kathleen Williams  
*Alternate:* Michael Nowlan

## School District 80

Superintendent Susan Knight  
*Alternates:* Kerry Leiby, Mary Kay Dunne

## School District 81

Superintendent Roberta Taylor  
*Alternate:* Jessica Donato

## School District 84

Superintendent David Nemeo  
*Alternate:* John Barry

## School District 84.5

Interim Superintendent Dan Pietrani  
*Alternates:* Dr. Edward McNally, Janet Spearing,  
William Horn, Steve Sievers

## School District 85.5

Superintendent Jon Bartelt

## School District 86

Superintendent Raymond J. Kuper  
(Vice-Chairperson)  
*Alternate:* Thomas Simmons

## School District 87

Superintendent Joseph Palermo  
*Alternates:* Grant Sabo, Michael Locigno

## School District 88

Interim Superintendent Drew Starsiak  
*Alternate:* Edward Brownlee

## School District 89

Superintendent Cynthia Broughton  
*Alternates:* Michael Cushion, Susan Carter

## School District 214

Superintendent Dr. David Schuler  
*Alternates:* Debra Parenti, Sherry Koerner,  
Seymour Schwartz, Bob Smith

## School District 234

Superintendent Robert Lupo  
*Alternates:* Cheryl Flinn, Paul Draniczarek

## School District 299

Chief Executive Officer Arne Duncan  
*Designee:* Eric Johnson

## School District 401

Superintendent Frank McKinzie  
*Alternate:* Thomas Zelek

## ONCC Staff

Brian Gilligan, Executive Director  
Jeanette Camacho, Administrative Coordinator

## MESSAGE FROM THE CHAIR



While it is obvious that aircraft noise still exists in communities around O'Hare, less clear is the great reduction in noise during the last 25 years. Gradual changes often are not apparent as they are happening. That is why a new map of comparative noise contours around O'Hare from 1979 to 2002 is significant. It gives us a way to see a reduction in noise. We have included this map in our Annual Report and an animated version can be viewed on the ONCC Web site.

However, while it is useful to look back on the "bad old days" of aircraft noise to fully understand the progress made, it is far more important to look to the future and to the ways that we can reduce aircraft noise even more. That is what the ONCC did in 2005 and continues to do today. We are looking ahead to a new residential sound insulation program, continued progress in sound insulation and schools and the great promise of aircraft technology advancements and new flight procedures.

The ONCC is now working with renewed enthusiasm and a new mandate. As part of the FAA's Record of Decision on the O'Hare Modernization Program (OMP), the ONCC has been given specific responsibilities concerning aircraft noise mitigation as the airport is redeveloped. When the OMP was first announced, the Commission pledged to be involved in the FAA's Environmental Impact Statement process every step of the way. We kept that promise and made constructive suggestions on aircraft noise issues throughout the process. Now the ONCC will have an important role as the O'Hare Modernization Program moves forward. For the first time, we have the opportunity to sound insulate homes before aircraft noise arrives. The OMP also provides a new framework to explore revised aircraft flight procedures that have the potential to reduce aircraft noise significantly over residential areas, especially at night.

As the ONCC looks toward future opportunities to reduce aircraft noise, it does so with two new members, the Village of Maywood and further Bellwood School District 88. The Commission is now 39 members strong. In addition, the members, including the City of Chicago, have extended through 2010 the intergovernmental agreement that is the foundation of the Commission.

I speak for all ONCC members in saying that we welcome the challenges ahead and the opportunity to continue serving all the residents of the O'Hare region.

Sincerely,

A handwritten signature in black ink that reads "Arlene J. Mulder". The signature is fluid and cursive.

Arlene J. Mulder  
Chairperson, O'Hare Noise Compatibility Commission  
Mayor, Village of Arlington Heights

# Frequently Used Terms

**A-Weighted Sound (dBA)** – A-weighted decibels adjust sound pressure towards the frequency range of human hearing.

**Airport Noise Monitoring System (ANMS)** - The Chicago Airport System's Airport Noise Monitoring System is a comprehensive system which provides actual measurement of the aircraft noise levels in Chicago neighborhoods and suburban communities around O'Hare and Midway. This integrated system includes many components, including a network of permanent noise monitors that measure the noise environment and a system directly connected to the FAA's air traffic control radar that collects aircraft flight tracks.

**Ambient Noise** - The totality of noise in a given place and time; usually a composite of sounds from varying sources at varying distances.

**Decibel (dB)** - Sound is measured by its pressure or energy in terms of decibels. The decibel scale is logarithmic; when the scale goes up by ten, the perceived sound is two times as loud.

**Ldn** – (See DNL). Ldn is used in place of DNL in mathematical equations only.

**Leq** - Equivalent Sound Level. The steady A-weighted sound level over any specified period (not necessarily 24 hours) that has the same acoustic energy as the fluctuating noise during that period (with no consideration of a nighttime weighting). It is a measure of cumulative acoustical energy. Because the time interval may vary, it should be specified by a subscript (such as  $Leq^8$  for an 8-hour exposure to noise) or be clearly understood from the context.

**Noise** - Unwanted sound.

**Noise Abatement** - A measure or action that minimizes the amount or impact of noise on the environs of an airport. Noise abatement measures include, but not limited to aircraft operating procedures and use or disuse of certain runways or flight tracks.



# Frequently Used Terms



**Noise Contour Map** - A map representing average annual noise levels summarized by lines connecting points of equal noise exposure.

**RNAV** - RNAV stands for Area Navigation. RNAV is a method of navigation which permits aircraft operations on any desired flight path within the coverage of station referenced navigation aids or the limits of the capability of self-contained aids, or any combination thereof. Airborne RNAV equipment automatically determines aircraft position by processing data from one or more sensors and guides the aircraft in accordance with appropriate routing instructions. Additional navigation parameters such as distance and bearing to a pre-selected waypoint can also be computed from the aircraft position and the location of the waypoint, depending upon the capability of the RNAV equipment. Position can be displayed to the pilot in various ways, most practically in terms of the aircraft position relative to the precomputed desired track. Most RNAV equipment can employ any lateral displacement of the aircraft from the desired track to generate track guidance signals to the auto-pilot. With other less sophisticated RNAV equipment, manual corrective action is taken by the pilot.

**Single Event** - An occurrence of audible noise, usually above a specified minimum noise level, caused by an intrusive source such as an aircraft overflight, passing train or ship's horn.

**Sound** - Sound is the result of a sound source vibration in the air. The vibration produces alternating bands of relatively dense and sparse particles of air, spreading outward from the source in the same way as ripples do on water after a stone is thrown into it. The result of the movement is fluctuation in the normal atmospheric pressure or sound waves.

**Sound Exposure Level (SEL)** - A measure of the physical energy of the noise event that takes into account both intensity and duration. Expressed in decibels (db).

**Stage 2 Aircraft** - Aircraft that meet the noise levels prescribed by FAR Part 36 and are less stringent than those established for the quieter designation (Stage 3). The Airport Noise and Capacity Act required the phase-out of all Stage 2 aircraft over 75,000 pounds by December 31, 1999.

**Stage 3 Aircraft** - Aircraft that meet the most stringent noise levels set in FAR Part 36.

# Commission Overview

The O'Hare Noise Compatibility Commission is the only organization that is dedicated to reducing aircraft noise in the communities around O'Hare International Airport. It was established in 1996, following an invitation from Chicago Mayor Richard M. Daley to suburban mayors to begin constructive dialogues on aircraft noise issues with the goal of reducing the noise.

Since its founding, the ONCC's membership has grown tremendously and now includes 23 municipalities, Cook County and 15 school districts that represent nearly 40 communities around O'Hare. These members are represented by their mayors and school superintendents at nearly 30 public meetings that the ONCC and its committees hold annually.

The ONCC, which has a full-time executive director and an administrative coordinator, operates through three standing committees: Technical, Residential Sound Insulation and School Sound Insulation. The Technical Committee identifies and promotes technological advancements that are designed to reduce aircraft noise. The sound insulation committees oversee one of the most aggressive residential noise remediation programs in the nation and the world's largest school sound insulation program. The total spending on these programs since they began is approximately \$440 million.

The ONCC believes in replacing confrontation with cooperation by bringing together the City of Chicago and suburban communities, the airlines, the Federal Aviation Administration (FAA), the controllers and the pilots to reduce the impact of aircraft noise in the communities surrounding O'Hare. This approach has successfully reduced aircraft noise and increased spending for sound insulation programs.



# 2005 Highlights

## Intergovernmental Agreement Extended to 2010

The ONCC will continue its work on behalf of residents around O'Hare through at least 2010. The intergovernmental agreement that created the Commission in 1996 was extended in 2005 by the Chicago City Council and each of the other 39 ONCC members.

"Our continued commitment to the ONCC recognizes the success of the Commission as it develops new approaches to the issue of aircraft noise in the Chicago area, said Chicago Mayor Richard M. Daley. "By working together

as one, we have created the most aggressive noise remediation programs in the nation."

"I'm extremely pleased that Mayor Daley, the City of Chicago and all the members of the ONCC want to continue our partnership as we continue to address the issue of aircraft noise in a cooperative and effective manner," said ONCC Chair and Arlington Heights Mayor Arlene J. Mulder.

## ONCC's New Role in the O'Hare Modernization Program

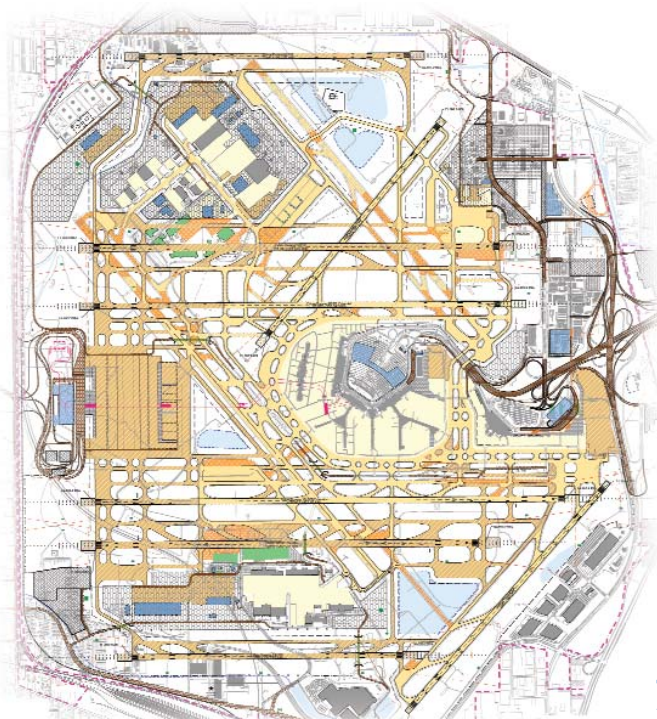
When the O'Hare Modernization Program (OMP) was first announced in 2001, the ONCC pledged to remain neutral on the project, while taking an active role in the environmental review of the plan as related to aircraft noise. Through the years, and the many hearings and meetings, the ONCC remained a vocal force on the issue of aircraft noise and the noise mitigation steps that would need to be taken as part of the OMP. The Commission frequently submitted written and oral testimony during the FAA's Environmental Impact Statement process.

In September 2005, the FAA announced its Record of Decision (ROD) on the O'Hare Modernization Program, allowing the project to proceed. Contained in the ROD were specific responsibilities assigned to the Commission.

The FAA designated the ONCC to continue overseeing the O'Hare Residential Sound Insulation Program with a directive that approximately 5,000 additional homes be insulated before the OMP is completed.

In addition, the FAA charged the ONCC with continued oversight of the O'Hare School Sound Insulation Program and the Fly Quiet Program, as well as responsibilities for evaluating changes to the Airport Noise Monitoring System and other aircraft noise issues associated with the reconfiguration of the airport.

Work toward carrying out the ONCC's responsibilities for the O'Hare Modernization Program is well underway.



# 2005 Highlights

## Welcome to New Members

Another community and another school district were approved for membership in the Commission during 2005. The addition of the Village of Maywood and Bellwood

School District 88 brings the ONCC's total membership to 39. District 88 includes the communities of Bellwood, Melrose Park and Stone Park.

## Fly Quiet Award

For the third consecutive year, American Airlines won the ONCC's prestigious Fly Quiet Award. The airline was recognized in 2005 by the Commission for its sustained commitment to the Fly Quiet Program and its overall strong support of the ONCC during 2004.

O'Hare through the use of preferred departure runways and flight paths. In addition, the program encourages airlines to use the O'Hare Ground Runup Enclosure, which significantly reduces the impact of aircraft engine noise during the routine testing and maintenance that occur primarily at night.

The Fly Quiet Program began in 1997 and is designed to reduce nighttime aircraft noise over residential areas around



# Technical Topics

A significant part of the O'Hare Noise Compatibility Commission's (ONCC) mission is to reduce aircraft noise at its source. To that end, the ONCC continually investigates and promotes cutting-edge technology and flight operations procedures. In addition, the ONCC monitors progress in

reducing aircraft noise around O'Hare and works to develop systems and procedures that enhance current noise reduction programs. Much of this work is done through the ONCC Technical Committee, chaired by Palatine Mayor Rita L. Mullins.

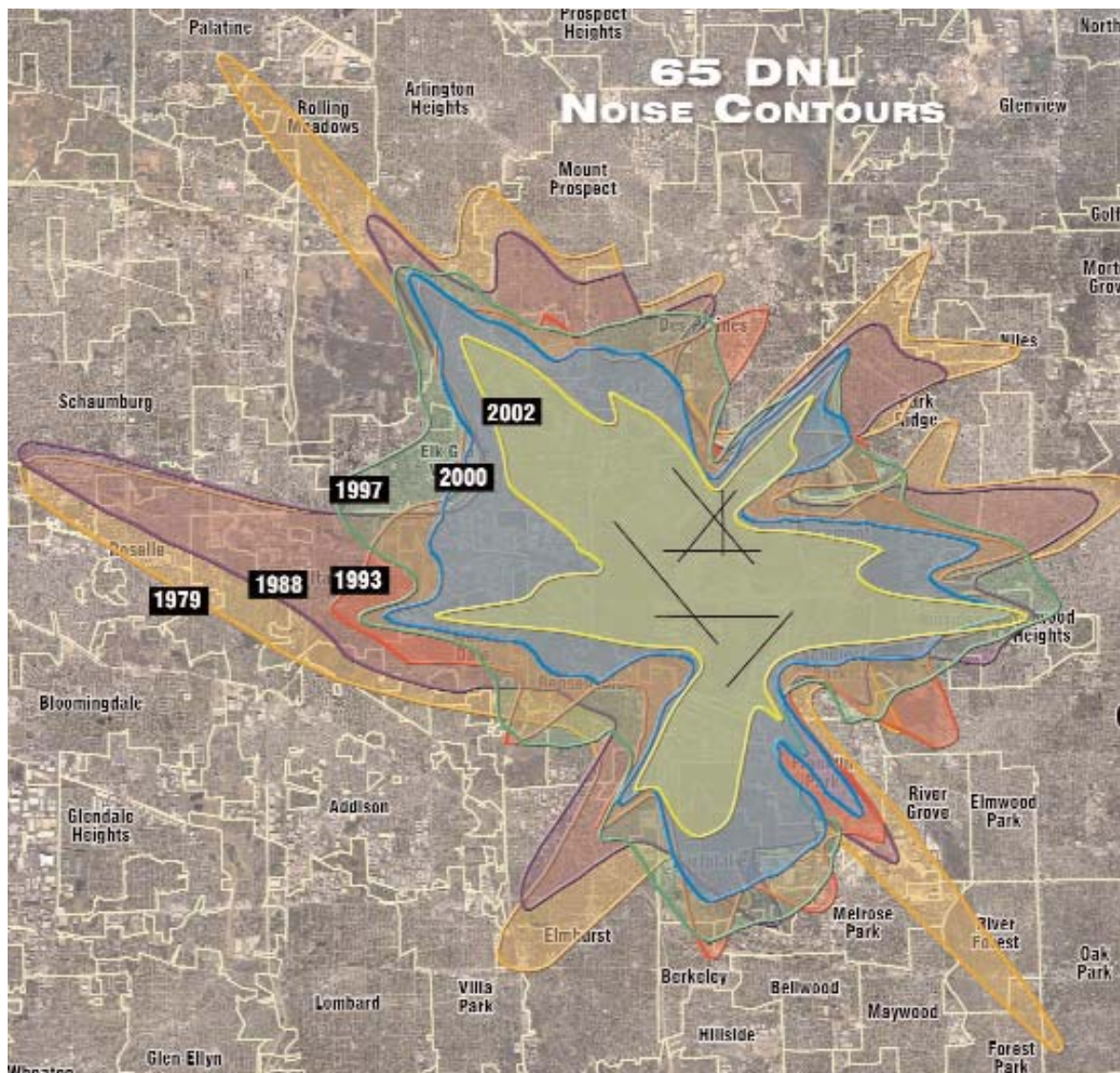
## Dramatic Noise Reductions Since 1979

A new animated noise contour map developed for the ONCC demonstrates the dramatic reduction in aircraft noise around O'Hare in the past quarter century. The map is a composite of several noise contours and clearly shows the gradual shrinking of the aircraft noise footprints.

Because the decrease in aircraft noise was gradual over a long period of time, it is difficult for most people to fully realize the extensive progress that has been made. This map is an aid in understanding the full impact of aircraft

noise mitigation due to factors such as advancements in aircraft design, airline fleet mixes, the Fly Quiet Program, and the efforts of the City of Chicago and the O'Hare Noise Compatibility Commission to effectively address aircraft noise issues.

While the distinct noise contours can be seen in the adjacent map photo, the best way to see the reduction in noise is by visiting the ONCC Web site to view the full animation.



# Technical Topics

## Complaint Calls Decrease

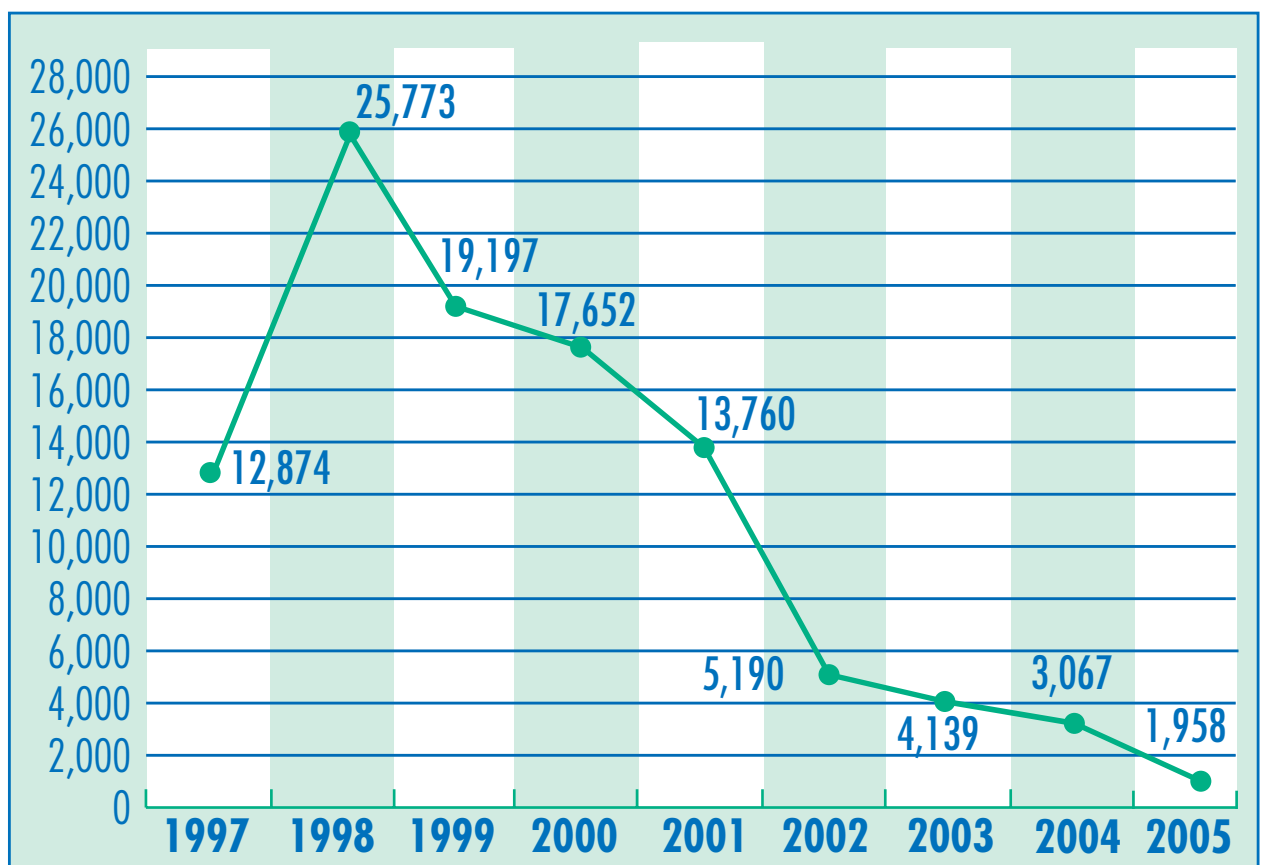
Another indication that aircraft noise around O'Hare has decreased is the record low number of calls to the O'Hare Noise Hotline during 2005. It was the seventh consecutive year that noise complaints fell.

There were fewer than 2,000 complaints regarding aircraft noise last year. The ONCC attributes that in large

part to the gradual reduction of overall aircraft noise around the airport, especially since the retirement of all older and noisier Stage-2 aircraft in 2000.

The hotline number is 800-435-9569.

## O'Hare Noise Hot Line Call Trend Report



## Tower Order Made Permanent

The ONCC was officially notified in 2005 that the FAA made permanent a noise abatement test program that was implemented at the ONCC's request in 2003.

This particular aspect of the O'Hare Tower Order pertains to the use of a radar screen overlay to help air traffic controllers in giving wind-corrected headings to pilots. Those headings help pilots adhere to the prescribed nighttime sound abatement routes even in strong crosswinds.

The ONCC had requested that the order be made permanent while testing continues on fully automated cockpit navigation systems that would keep departing aircraft over non-residential areas during the nighttime hours. Those systems are not yet ready for implementation.

## 2005 Noise Summary

The annual summary of aircraft noise is the product of the Airport Noise Monitoring System's 37 noise monitors located

around O'Hare. The 2005 summary shows continued decrease in aircraft noise.

Annual Airport Noise Report Summary (Aircraft DNL)  
Chicago O'Hare International Airport  
Period: December 2005  
Metric: Aircraft DNL



RMS #	Community	Last 12 Months Noise Levels												Last Dec 04	Last 12 Months <sup>2</sup>	Modeled 1997 Values	Last 12 Months <sup>3</sup>	Modeled 2000 Values
		Jan 05	Feb 05	Mar 05	Apr 05	May 05	Jun 05	Jul 05	Aug 05	Sep 05	Oct 05	Nov 05	Dec 05					
1	Arlington Heights	59.5	61.1	60.9	61.7	61.8	61.8	61.8	63.0	61.8	62.2	61.3	<b>60.4</b>	61.1	<b>61.7</b>	63.0	<b>61.7</b>	63.0
2	Melrose Park	54.2	53.9	54.3	55.8	57.0	57.0	54.7	55.0	55.6	55.0	57.8	<b>55.6</b>	57.1	<b>55.6</b>	63.4	<b>55.6</b>	61.0
3	Bensenville	60.2	59.6	61.2	61.7	60.4	61.5	60.5	61.9	61.9	60.0	62.6	<b>59.4</b>	61.8	<b>61.0</b>	71.3	<b>61.0</b>	67.3
4	Schiller Park	58.3	57.4	58.1	57.0	62.1	--	--	57.8	59.5	--	--	<b>53.7</b>	57.0	<b>58.8</b>	62.6	<b>58.8</b>	62.6
5	Chicago	56.2	57.0	57.4	57.5	58.7	57.3	57.7	57.6	56.8	56.7	57.4	<b>56.1</b>	57.1	<b>57.2</b>	60.8	<b>57.2</b>	59.8
6	Chicago	55.7	55.7	56.0	56.9	56.2	53.5	53.7	54.6	52.3	52.2	53.1	<b>51.9</b>	54.9	<b>54.6</b>	61.3	<b>54.6</b>	59.6
7	Des Plaines	59.6	59.5	61.3	59.5	57.9	56.8	59.3	57.8	58.4	59.6	58.8	<b>60.1</b>	60.0	<b>59.2</b>	65.4	<b>59.2</b>	62.0
8	Des Plaines	65.7	65.5	65.7	66.8	67.0	66.5	67.4	67.0	65.0	66.0	62.7	<b>61.4</b>	64.3	<b>65.9</b>	70.0	<b>65.9</b>	68.8
9*	Des Plaines	65.5	65.7	65.8	65.7	66.8	66.4	66.5	66.7	--	--	--	--	65.9	<b>66.1</b>	74.3	<b>66.1</b>	68.8
10	Rolling Meadows	57.4	58.8	59.3	58.1	58.6	58.3	56.9	58.1	57.7	60.1	54.2	<b>54.6</b>	59.7	<b>57.8</b>	59.0	<b>57.8</b>	60.8
11	Chicago	56.8	--	--	--	--	--	--	--	58.3	59.0	56.0	<b>55.2</b>	57.2	<b>57.2</b>	60.9	<b>57.2</b>	60.7
12	Elk Grove	58.6	60.9	59.8	59.4	61.9	63.2	58.1	57.6	59.3	60.2	60.7	<b>61.2</b>	60.7	<b>60.3</b>	66.7	<b>60.3</b>	62.1
13	Elk Grove	72.8	74.3	74.0	74.0	74.6	75.4	75.4	75.6	75.4	75.1	74.4	<b>74.1</b>	74.1	<b>74.6</b>	80.0	<b>74.6</b>	77.6
14	Elk Grove	62.5	63.8	63.8	64.2	63.9	63.7	64.7	63.4	63.4	64.5	62.8	<b>62.8</b>	63.1	<b>63.7</b>	67.6	<b>63.7</b>	65.7
15	Franklin Park	57.3	57.9	59.0	58.0	61.9	60.4	57.5	58.5	58.5	58.7	59.8	<b>57.4</b>	60.5	<b>58.9</b>	64.1	<b>58.9</b>	62.6
16	Franklin Park	68.6	69.4	69.6	69.4	71.8	72.0	70.2	71.0	70.7	69.8	71.2	<b>68.8</b>	70.6	<b>70.3</b>	72.2	<b>70.3</b>	72.1
17	Harwood Heights	64.7	66.9	66.0	65.4	64.4	63.4	64.9	64.4	64.4	66.0	67.8	<b>67.1</b>	67.5	<b>65.6</b>	66.4	<b>65.6</b>	65.4
19	Stone Park	58.4	59.2	59.5	59.7	60.9	59.8	59.7	59.1	59.4	58.7	60.5	<b>61.0</b>	60.0	<b>59.6</b>	64.7	<b>59.6</b>	61.7
20	Mount Prospect	59.9	61.1	60.9	61.3	61.3	62.5	62.8	61.0	60.9	61.7	61.5	<b>60.8</b>	60.4	<b>61.4</b>	63.5	<b>61.4</b>	62.4
21	Mount Prospect	55.7	55.7	57.1	57.1	55.9	55.7	58.5	56.6	56.8	56.2	55.2	<b>54.5</b>	54.8	<b>56.3</b>	59.6	<b>56.3</b>	58.6
22	Norridge	67.3	69.1	68.1	67.3	66.0	65.1	66.1	66.2	66.9	67.8	69.3	<b>68.9</b>	69.3	<b>67.5</b>	69.2	<b>67.5</b>	67.7
23	Northlake	62.4	64.6	64.3	63.1	65.3	65.6	63.4	64.7	65.0	63.7	64.9	<b>63.3</b>	65.3	<b>64.2</b>	73.5	<b>64.2</b>	69.1
24	Park Ridge	56.6	56.5	57.4	57.5	57.8	57.5	57.3	57.0	56.0	56.4	55.0	<b>54.2</b>	56.7	<b>56.7</b>	60.3	<b>56.7</b>	58.8
25	Park Ridge	56.3	57.1	58.9	58.2	59.0	58.2	56.2	56.9	55.8	55.9	56.3	--	56.0	<b>57.5</b>	69.1	<b>57.5</b>	61.8
26	Park Ridge	58.0	57.9	58.9	59.7	59.2	58.7	58.9	58.7	56.9	58.5	56.1	<b>53.3</b>	56.3	<b>58.1</b>	64.0	<b>58.1</b>	61.2
27	Rosemont	63.7	64.9	65.7	65.8	65.2	65.4	65.4	64.7	62.9	63.7	--	<b>60.6</b>	62.3	<b>65.7</b>	73.0	<b>65.7</b>	67.6
28	Schiller Park	78.1	79.6	77.9	76.6	76.3	75.7	77.4	76.8	77.1	76.0	--	--	79.9	<b>77.5</b>	79.6	<b>77.5</b>	78.7
32	Wood Dale	63.0	66.3	66.2	61.6	61.1	60.4	60.7	61.1	63.6	66.6	65.6	<b>64.6</b>	65.2	<b>64.2</b>	71.2	<b>64.2</b>	66.4
34	Elk Grove	57.6	58.5	56.6	57.7	58.7	58.1	59.2	57.7	59.0	59.7	60.5	<b>59.9</b>	59.7	<b>58.7</b>	66.3	<b>58.7</b>	61.2
35	Unincorporated Cook	63.5	67.2	65.2	66.5	68.4	62.5	64.0	68.8	68.7	63.0	71.3	<b>68.9</b>	64.6	<b>67.1</b>	70.8	<b>67.1</b>	65.4
37	Mount Prospect	52.1	53.7	54.9	55.1	54.6	54.3	56.3	56.3	54.9	55.0	54.0	<b>53.4</b>	53.4	<b>54.7</b>	55.1	<b>54.7</b>	57.0

--No Data for site number 22 and 35 due to monitor malfunction.

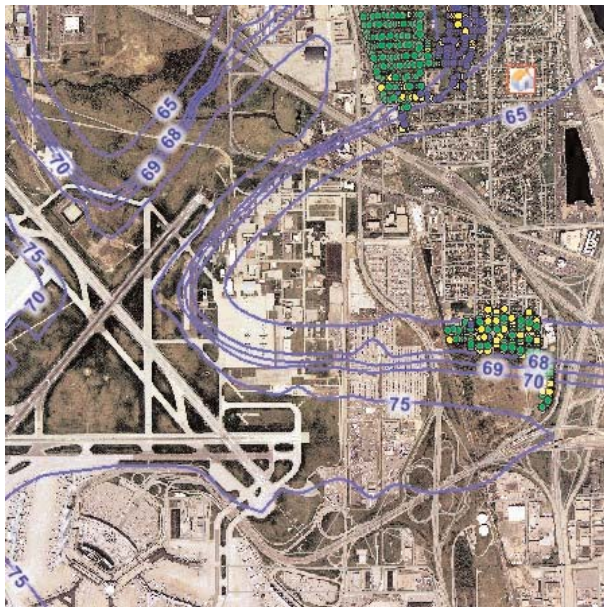
- Red** represents an increase of 1dB or more from same month previous year (11 monitors). **Green** represents a decrease of 1dB or more from same month previous year (2 monitors).
- Red** represents an increase of 1dB or more from modeled 1997 noise contour level (1 monitors). **Green** represents a decrease of 1dB or more from modeled 1997 noise contour level (28 monitors).
- Red** represents an increase of 1dB or more from modeled 2000 noise contour level (0 monitors). **Green** represents a decrease of 1dB or more from modeled 2000 noise contour level (28 monitors).

# Residential Sound Insulation Program

The O'Hare Residential Sound Insulation Program is considered one of the most aggressive programs of its kind in the nation. It is operated and funded by the City of Chicago with monies from the Passenger Facilities Charge (PFC). The program is coordinated and directed by the ONCC Residential Sound Insulation Committee, which is chaired by Cook County Director of Community and Intergovernmental Affairs Frank Damato.

## Going Forward

Following the FAA's approval of the O'Hare Modernization Program, the Residential Sound Insulation Program will now focus on the future. For the first time, homes will be insulated before aircraft noise affects residents. As directed by the FAA's Record of Decision for the O'Hare Modernization Program, issued on September 30, 2005, the O'Hare Residential Sound Insulation Program will continue to be an aggressive mitigation effort by the City of Chicago and will focus on the sound insulation of homes within the 2013 noise contour for O'Hare. The 2013 noise contour reflects the anticipated impact from aircraft operations once all construction phases of the OMP are complete.



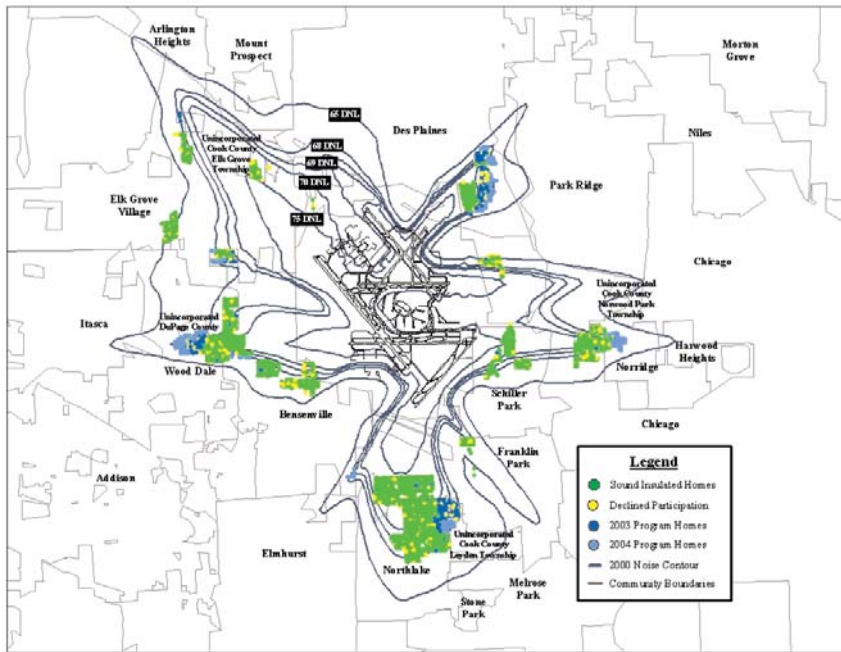
## Program Summary

<b>Community</b>	<b>Homes</b>
<b>Bensenville</b>	717
<b>Chicago</b>	178
<b>Des Plaines</b>	602
<b>Elk Grove</b>	267
<b>Franklin Park</b>	127
<b>Norridge</b>	543
<b>Northlake</b>	922
<b>Rosemont</b>	96
<b>Schiller Park</b>	472
<b>Elk Grove Township</b>	46
<b>Unincorp. Cook Co</b>	
<b>Leyden Township</b>	
<b>Unincorp. Cook Co</b>	1,318
<b>Unincorporated</b>	
<b>DuPage County</b>	216
<b>Wood Dale</b>	442
<b>TOTAL</b>	<b>5,946</b>

Upon completion of the current phase, the Residential Sound Insulation Program going forward will be focused on the effort to sound-insulate approximately 5,000 residences as required by the FAA's Record of Decision for the O'Hare Modernization Program. All single-family and multi-family dwelling types within the 2013, 65 DNL Noise Contour must be included in the program by the time of the OMP's full build-out.

The FAA, in its OMP Record of Decision, reinforced the ONCC's role in determining the policies for the future O'Hare Residential Sound Insulation Program. The ONCC will continue to actively oversee the program and will work with the Chicago Department of Aviation to determine the construction/phasing schedule.

# Residential Sound Insulation Program



## Model Sound Insulation Ordinance

The ONCC in 2005 developed a model sound insulation ordinance for municipalities to voluntarily adopt. It would ensure that a community's newly constructed homes and other buildings are properly insulated against aircraft noise and other sources of noise. It is believed that the model ordinance is the first of its kind in the nation.

The ONCC became interested in developing sound insulation guidelines for municipalities after discovering new houses being built around O'Hare in areas where older homes had already been sound insulated under the O'Hare Residential Sound Insulation Program. This trend is of concern because houses constructed after October 1998 are not eligible for the sound insulation program. The model ordinance is a tool that local governments can use to help protect the buyers of new homes in areas impacted by aircraft noise. In addition, the model ordinance can be used to make newly constructed homes better insulated against all kinds of external noise.

The Village of Niles representative to the ONCC, attorney Joseph Annunzio, who drafted much of the language in the model ordinance, says the ordinance can be easily modified by local governments to meet their own needs and special circumstances.

A copy of the ordinance is available on the ONCC Web site at [www.oharenoise.org/Publications](http://www.oharenoise.org/Publications)

# School Sound Insulation Program

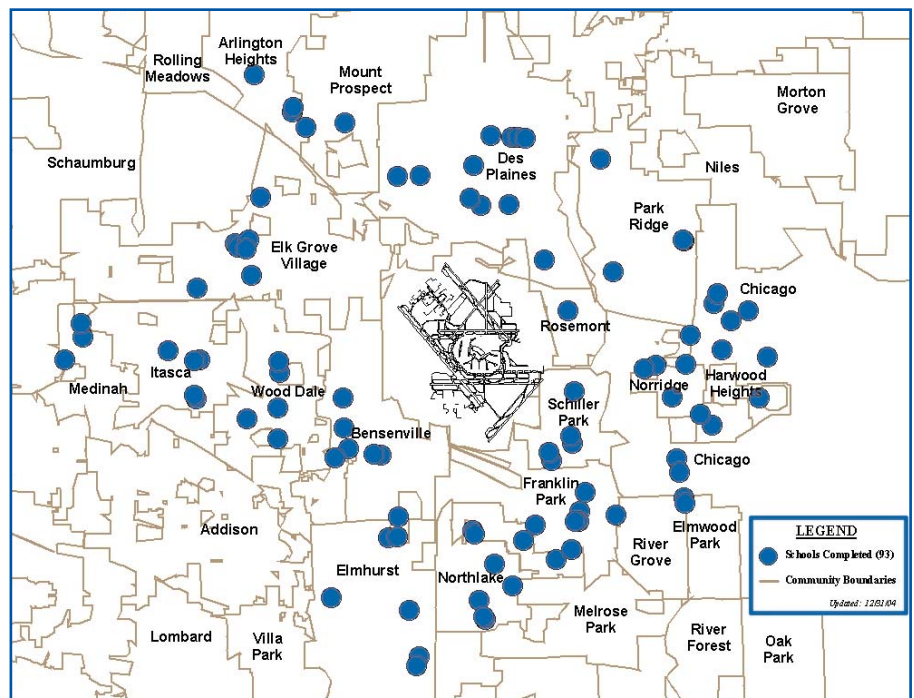
## O'Hare School Sound Insulation Program Summary

<b>Community</b>	<b>Schools</b>	<b>Total Spent</b>
Arlington Heights	3	\$ 13,080,092
Bensenville	7	\$ 14,500,510
Berkeley	1	\$ 3,591,864
Chicago	15	\$ 32,882,152
Des Plaines	13	\$ 34,072,838
Elmwood Park	2	\$ 3,707,984
Elk Grove Village	8	\$ 17,005,627
Elmhurst	6	\$ 11,377,064
Franklin Park	8	\$ 13,242,929
Harwood Heights	1	\$ 4,179,765
Itasca	5	\$ 9,915,372
Medinah	2	\$ 925,671
Melrose Park	4	\$ 10,499,836
Mt. Prospect	2	\$ 4,476,031
Norridge	4	\$ 15,497,642
Northlake	8	\$ 24,446,213
Park Ridge	9	\$ 24,075,625
River Grove	4	\$ 10,317,376
Roselle	1	\$ 2,394,794
Rosemont	1	\$ 971,334
Schiller Park	5	\$ 6,404,047
Wood Dale	5	\$ 3,832,091
<b>TOTAL</b>	<b>114</b>	<b>\$ 261,396,857</b>

The O'Hare School Sound Insulation Program is the largest of its kind in the world. It is operated and funded by the City of Chicago with monies from the Airport Improvement Program (AIP), the Passenger Facilities Charge (PFC) and Non-Passenger Facility Charges. It is overseen by the ONCC through its School Sound Insulation Committee, which is chaired by School District 86 Superintendent Dr. Raymond J. Kuper.

As of December 2005, total disbursements for 114 schools with executed grant agreements were \$261.3 million, and construction had been completed at 96 schools.

The O'Hare School Sound Insulation Program was awarded an additional \$12.5 million in 2005 - \$10 million from the FAA through the Airport Improvement Program and \$2.5 million from the City of Chicago's disbursement of the Passenger Facility Charges paid by each departing airline passenger.



# School Sound Insulation Program

## Completed Construction

As of December 2005, sound insulation construction has been completed in 96 schools with actual payouts of \$234.2 million from Airport Improvement Program (AIP), Passenger Facility Charges (PFC) and non Passenger Facility Charges.

## Funded Schools

Over \$172 million was disbursed for design and construction activities at the funded schools identified by the City since 1996. (AIP & PFC)

Total AIP & PFC disbursements for 114 schools with executed grant agreement is \$261.3 million.

## Additional Schools Requesting Participation

72 additional schools have requested inclusion into the City of Chicago's School Sound Insulation Program.

## Construction Underway

The following school has completed their construction work and are currently in the final close-out process:

Embers Elementary School, (Private) Park Ridge

The following schools have construction projects underway. Work primarily takes place when school is not in session:

- |   |              |
|---|--------------|
| • MacArthur Middle School, Berkeley, FAA/DOA Funded School        | 93% Complete |
| • Abraham Lincoln Middle School/Park Ridge FAA/DOA Funded School  | 66% Complete |
| • John Mills School, Elmwood Park, FAA/DOA Funded School          | 5% Complete  |
| • Jane Addams School, Melrose Park, FAA/DOA Funded School         | 25% Complete |
| • Stevenson Elementary School, Des Plaines, FAA/DOA Funded School | 94% Complete |
| • Rhodes Elementary School, River Grove, FAA/DOA Funded School    | 25% Complete |
| • Socrates – St. Sava Academy, Chicago, FAA/DOA Funded School     | 28% Complete |

## Three (3) Schools Currently in Design (These 3 schools are funded for construction in FY 2006)

- |   |                     |
|---|---------------------|
| • East Leyden High School, Franklin Park  | 75% Design Complete |
| • St. Andrews Lutheran School, Park Ridge | 94% Design Complete |
| • Stevenson School, Melrose Park          | 63% Design Complete |

## Eight (8) Schools Construction Complete in Close-out Process – Punch List – Final Invoices

The following schools have completed their construction work and are currently in the final close-out process:

- St. Zachary Elementary School, (Private) Des Plaines
- Bethlehem Lutheran School, (Private) River Grove
- Taft High School, (District 299) Chicago
- Dever Elementary, District 299, Chicago
- St. Celestine, (Private) Elmwood Park
- Al Hattendorf, (Private) Elk Grove Village
- Maine East High School, District 207 Park Ridge
- Embers Elementary School, (Private) Park Ridge

# Community Outreach

Reducing aircraft noise is a complex issue and the work of the O'Hare Noise Compatibility Commission is multi-faceted. To help further a better understanding of the issues and the ONCC's efforts on behalf of all residents around O'Hare, the Commission reaches out to the communities in many ways.

**Internet Web site: [www.oharenoise.org](http://www.oharenoise.org)**

Launched in 2001, [www.oharenoise.org](http://www.oharenoise.org) has become one of the main communication tools for the ONCC. The Web site is an international resource on aircraft noise issues. Thousands of person from around the world visit the site each month for the latest information and for educational materials that can be downloaded from the site.

## **O'Hare Monitor**

The *O'Hare Monitor* is the ONCC's quarterly newsletter distributed free to more than one thousand subscribers in the Chicago area and other parts of the U.S. The newsletter highlights the work of the ONCC and its many accomplishments in reducing aircraft noise at O'Hare. The *O'Hare Monitor* is also available via the ONCC Web site and e-mail.

## **Aircraft Noise Reduction: The O'Hare Story**

This video presentation, on DVD and VHS tape, explains the work of the ONCC and provides visual details on many of the ONCC's projects, especially the residential and school sound insulation programs. The video is available by writing to the ONCC or ordering online via the ONCC Web site.



## **Community Outreach Vehicle**

Outfitted with technology to demonstrate aircraft noise issues, the Community Outreach Vehicle (COV) travels to schools, libraries and community events. The COV is owned and operated by the Chicago Department of Aviation. In addition to demonstrations on aircraft noise monitoring, an interactive aircraft noise demonstration system and video presentations, the COV also carries ONCC information to communities around the Chicago area.

## **Additional Outreach Programs**

The ONCC provides a wide variety of informative and educational presentations throughout the year.

# Community Outreach



## Expert Guest Speaker Program

A wide variety of experts in the field of aircraft noise and government programs appear regularly at the ONCC meetings, which are always open to the public. In the past, the Commission has heard presentations by congressmen, representatives of the FAA, aircraft manufacturer executives, airline pilots and acoustical engineers.

## School Outreach Program

This free program makes available to teachers the expertise and resources of the ONCC and the Chicago Airport System on topics related to aviation and aircraft noise mitigation, including a wide variety of interactive learning tools, advanced technology demonstrations, multimedia presentations, guest speakers, and exhibits. The program can be tailored to meet specific curricula requirements for students from the primary grades to college level.

## Speakers Bureau

The ONCC Speakers Bureau makes available to community groups and service organizations expert speakers on O'Hare aircraft noise reduction programs and general aircraft noise issues.

## Noise 101 Presentations

The Noise 101 Program provides the basics on the issue of noise. Through lectures and Web-based presentations, information is provided on how noise is measured, how it is perceived, how it affects people and how it can be reduced.

## Homeowners' Sound Insulation Guide

This 30-page booklet includes detailed diagrams, photos and numerous suggestions for reducing noise inside homes. The booklet also contains a list of suppliers who offer acoustical windows and doors. The information in the booklet applies to existing homes and new construction

"Sound Insulating Your Home," is available free of charge by writing to the O'Hare Noise Compatibility Commission directly at P.O. Box 1126, Des Plaines, IL 60017-1126, or through its Web site at [www.oharenoise.org](http://www.oharenoise.org). The booklet can also be downloaded from the site.



# 2006 Meeting Schedule

<b>O'Hare Noise Compatibility Commission</b>	<b>Residential Sound Insulation Committee</b>	<b>School Sound Insulation Committee</b>	<b>Technical Committee</b>
All meetings begin at 8:00 a.m.	All meetings begin at 9:30 a.m.	All meetings begin at 10:00 a.m.	All meetings begin at 9:00 a.m.
<b>January No Meeting</b>	<b>January 11, 2006</b> Norridge Village Hall 4000 N. Olcott	<b>January 10, 2006</b> School District 214 2121 S. Goebbert Rd., Arlington Heights	<b>January 24, 2006</b> Mt. Prospect Village Hall 50 S. Emerson
<b>February 10, 2006</b> Rosewood Banquets 9421 W. Higgins Rd., Rosemont	<b>February 15, 2006</b> Norridge Village Hall 4000 N. Olcott	<b>February No Meeting</b>	<b>February 28, 2006</b> Mt. Prospect Village Hall 50 S. Emerson
<b>March 24, 2006</b> Donald E. Stephens Convention Center 5555 N. River Rd., Rosemont	<b>March No Meeting</b>	<b>March No Meeting</b>	<b>March 28, 2006</b> Mt. Prospect Village Hall 50 S. Emerson
<b>April No Meeting</b>	<b>April 19, 2006</b> Norridge Village Hall 4000 N. Olcott	<b>April No Meeting</b>	<b>April No Meeting</b>
<b>May 5, 2006</b> Donald E. Stephens Convention Center 5555 N. River Rd., Rosemont	<b>May 17, 2006</b> Norridge Village Hall 4000 N. Olcott	<b>May 24, 2006</b> School District 59 2123 S. Arlington Hts. Rd., Arlington Heights	<b>May 23, 2006</b> Mt. Prospect Village Hall 50 S. Emerson
<b>June 2, 2006</b> Donald E. Stephens Convention Center 5555 N. River Rd., Rosemont	<b>June 21, 2006</b> Norridge Village Hall 4000 N. Olcott	<b>June No Meeting</b>	<b>June No Meeting</b>
<b>July No Meeting</b>	<b>July No Meeting</b>	<b>July No Meeting</b>	<b>July No Meeting</b>
<b>August No Meeting</b>	<b>August No Meeting</b>	<b>August No Meeting</b>	<b>August 22, 2006</b> Mt. Prospect Village Hall 50 S. Emerson
<b>September 8, 2006</b> Donald E. Stephens Convention Center 5555 N. River Rd., Rosemont	<b>September 20, 2006</b> Norridge Village Hall 4000 N. Olcott	<b>September No Meeting</b>	<b>September 26, 2006</b> Mt. Prospect Village Hall 50 S. Emerson
<b>October 13, 2006</b> Rosewood Banquets 9421 W. Higgins Rd., Rosemont	<b>October 18, 2006</b> Norridge Village Hall 4000 N. Olcott	<b>October 11, 2006</b> School District 59 2123 S. Arlington Hts. Rd., Arlington Heights	<b>October 24, 2006</b> Mt. Prospect Village Hall 50 S. Emerson
<b>November 3, 2006</b> Donald E. Stephens Convention Center 5555 N. River Rd., Rosemont	<b>November 15, 2006</b> Norridge Village Hall 4000 N. Olcott	<b>November No Meeting</b>	<b>November 21, 2006</b> Mt. Prospect Village Hall 50 S. Emerson
<b>December 1, 2006</b> Donald E. Stephens Convention Center 5555 N. River Rd., Rosemont	<b>December No Meeting</b>	<b>December No Meeting</b>	<b>December No Meeting</b>

Meeting schedules are subject to change. Please check [www.oharenoise.org](http://www.oharenoise.org) for updates.



## O'Hare Noise Compatibility Commission

P.O. Box 1126  
Des Plaines, IL 60017-1126

Brian Gilligan, Executive Director  
Phone: 312.686.3198  
Fax: 773.686.4980

[www.oharenoise.org](http://www.oharenoise.org)