

Noise Compatibility 2009 Year End Report

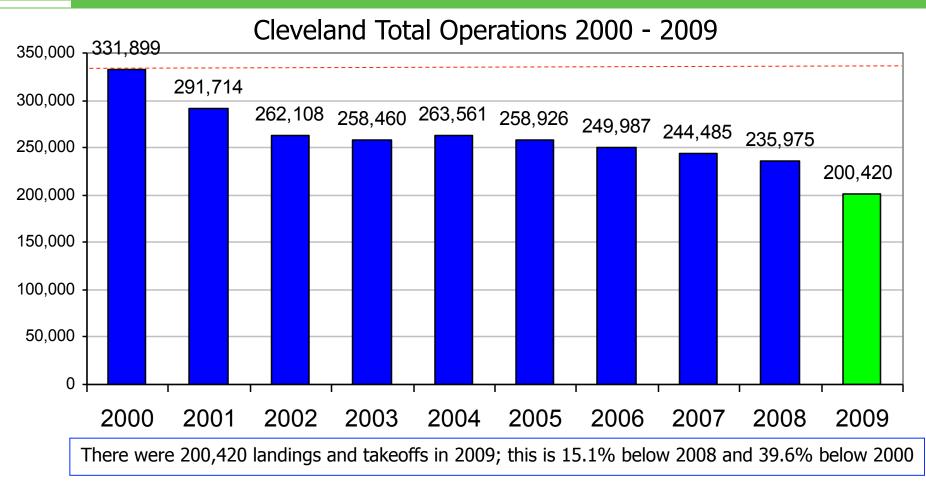


Noise Highlights of 2009

- Airport operations for the year ending 2009 were down 15.1%, compared to the year ending 2008
- Stage 2 (with hush kit) operations declined 80% for the Year of 2009, as compared to the Year of 2008.
- Heavy operations declined 14% for the Year of 2009, as compared to the Year of 2008.
- Runway 6R/24L was closed from June 14th 17th from 2:00 PM to 5:30 PM each day for maintenance, from August 17th -22nd and from October 12th 22nd for construction, and from 10:00 AM to 1:45 PM on Nov 10th and 11th for surveying.
- Flight data collection of departure tracks through the Noise Monitoring System dramatically improved starting July 15, 2009. Between July 15th and December 31st, more than 99.9% of departure tracks were collected, as compared to 78.8% for the same time period in 2008. Flight data collection from Jan 1st to Jul 14th, 2009 was 77.2%. (Data collection was improved due to the FAA granting access to additional beacon codes). Arrival data collection of flights also improved over the same time periods; from 96.3% before July 15, 2009 to 99.2% after July 15th.
- Noise Compatibility Plan Update (FAR Part 150 Study)
 - There is a dedicated public website at <u>www.CLEnoisestudy.com</u> and a dedicated Part 150 Hotline number at 216.898.6788
 - There were four public workshops and three working group meetings held and two newsletters issued.
- Complaints
 - There was a 22% reduction in noise complaints for Year 2009, as compared to Year 2008.



Aircraft Operations



Source: FAA Control Tower Traffic Count Reports



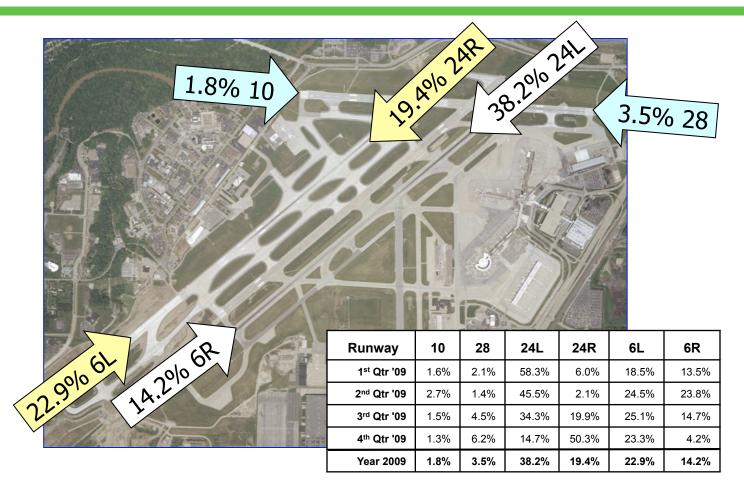
Fleet Mix

Landings & Takeoffs

	2008	Activity	2009 Activity		
Commercial -Stage 2 ^{with hush kit} -Heavy -Other Stage 3 -Regional Jet	1,705 4,700 61,440 114,262	0.72% 1.99% 26.04% 48.42%	337 4,042 54,929 99,684	0.17% 2.02% 27.40% 49.74%	
-Turboprop	35,979	15.25%	29,863	14.90%	
Air Taxi	6,391	2.71%	3,472	1.73%	
General Aviation	11,170	4.73%	7,813	3.90%	
Military	328	0.14%	280	0.14%	
Total	235,975	100.0%	200,420	100.00%	

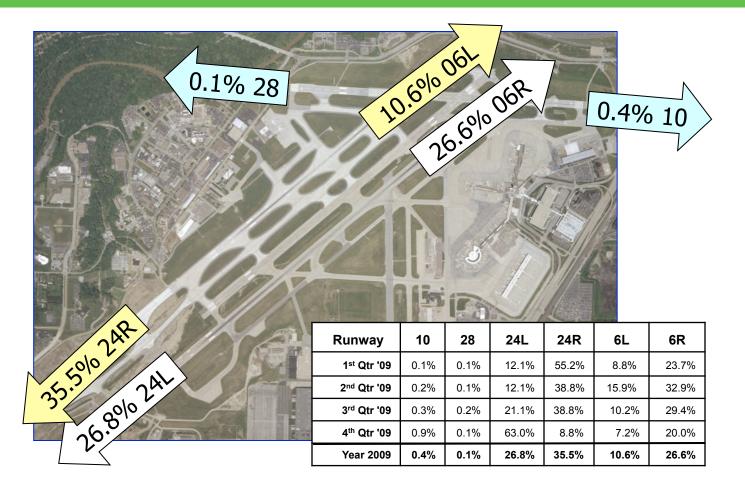


Runway Use: Year 2009 Landings



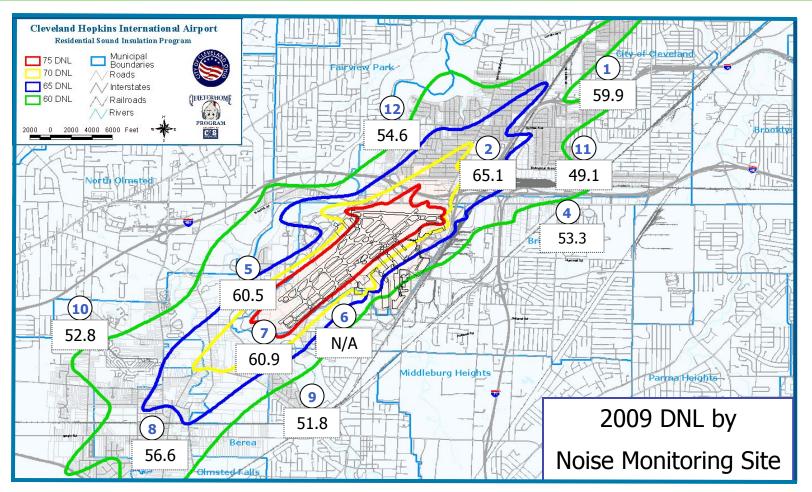


Runway Use: Year 2009 Take-Offs





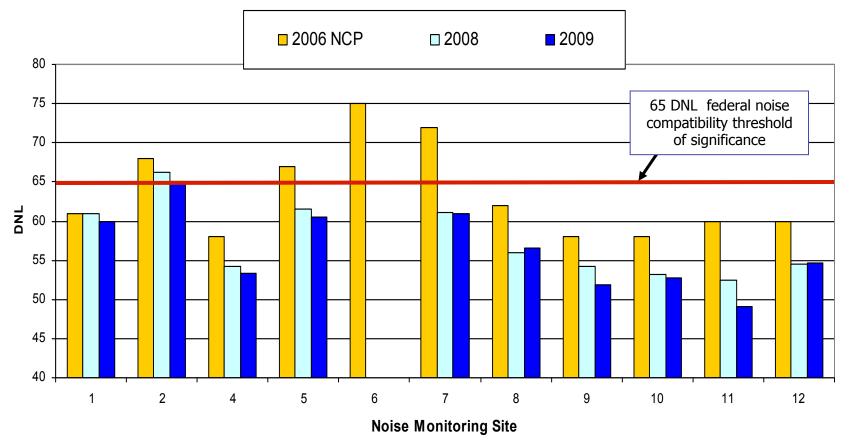
Aircraft Noise



Noise Compatibility 2009 Year End Report NMS06 was disconnected from power, dismantled and placed in storage in November 2008 due to runway expansion.



DNL Change from 2008 to 2009

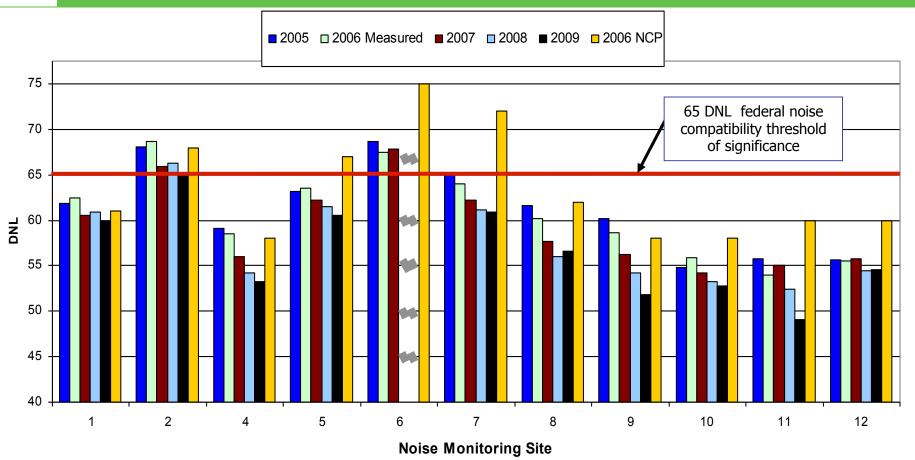


NMS06 was disconnected from power, dismantled and placed in storage in November 2008 due to runway expansion. Less than 6 months of data is available from 2008.

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DNL Comparison by Year

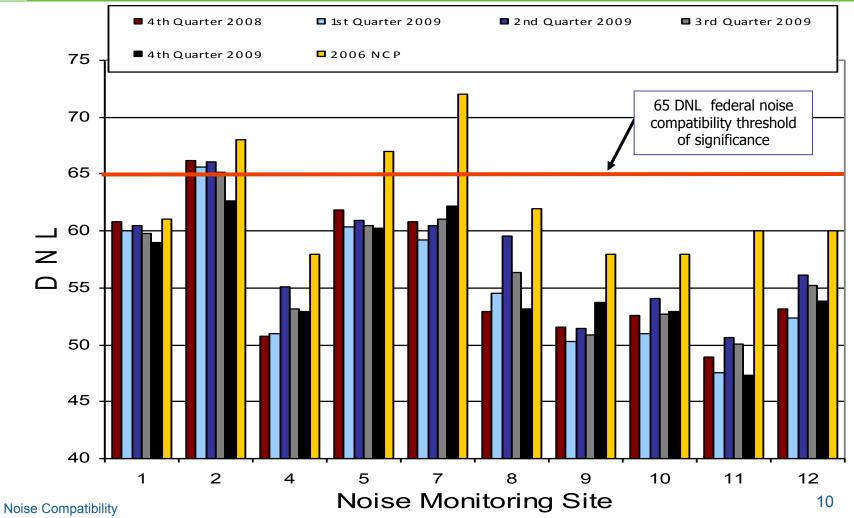


NMS06 was disconnected from power, dismantled and placed in storage in November 2008 due to runway expansion. Less than 6 months of data is available from 2008.

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DNL Comparison by Quarter

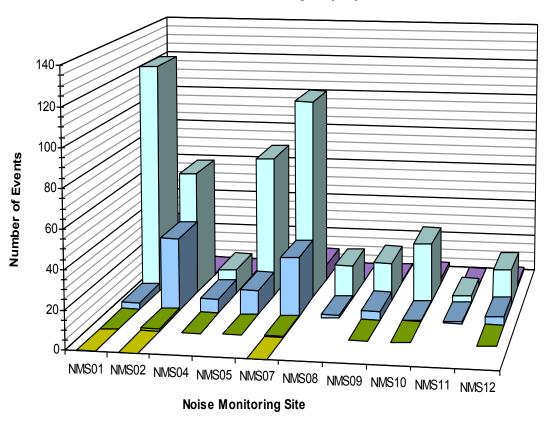


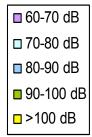
2009 Year End Report



Distribution of Noise Events

Distribution of Lmax Averaged by Day, 4th Quarter, 2009







Top 3 Lmaxs at each NMS, 4th Qtr, (1 of 2)

NMS	Lmax (dB)	Aircraft	Operation	Time and date	Sound Exposure Level (dB)	Duration (sec)
NMS01	100.9	Learjet 25	Arrival on Rwy 24R	12/16/2009 5:38 p.m.	104.8	59.0
NMS01	90.8	Gulf 3	Arrival on Rwy 24L	10/31/2009 8:13 p.m.	95.4	24.5
NMS01	87.9	MD-11	Arrival on Rwy 24L	10/30/2009 5:44 a.m.	95.0	30.5
NMS02	100.5	Learjet 25	Arrival on Rwy 24L	11/24/2009 7:47 p.m.	103.4	11.5
NMS02	96.5	Learjet 25	Arrival on Rwy 24L	11/06/2009 8:28 p.m.	101.4	18.5
NMS02	96.4	MD-11	Arrival on Rwy 24L	11/25/2009 6:00 a.m.	100.2	21.0
NMS04	92.9	Military (C-9)	Departure off Rwy 6R	11/17/2009 11:06 a.m.	99.8	40.5
NMS04	89.6	Boeing 737-500	Arrival on Rwy 28	10/22/2009 5:22 p.m.	94.4	23.0
NMS04	88.4	Boeing 737-200	Departure off Rwy 10	10/12/2009 8:42 p.m.	97.6	47.5
NMS05	95.6	Learjet 25	Departure off Rwy 24L	11/24/2009 8:09 p.m.	104.3	61.5
NMS05	93.4	Unknown Aircraft	Departure off Rwy 24L or 24R	12/17/2009 11:06 a.m.	101.0	33.5
NMS05	92.8	MD-11	Departure off Rwy 24L	10/30/2009 10:39 p.m.	99.2	35.5
NMS07	101.8	Learjet 25	Departure off Rwy 24L	11/06/2009 10:20 p.m.	107.9	47.0
NMS07	100.3	Learjet 25	Departure off Rwy 24L	10/02/2009 6:03 p.m.	107.5	45.0
NMS07	100.3	Boeing 727-200	Departure off Rwy 24L	12/27/2009 10:27 p.m.	108.2	51.5

Sound Exposure Level is a measure that takes into account all noise over the entire duration of an event.



Top 3 Lmaxs at each NMS, 4th Qtr, (2 of 2)

NMS	Lmax (dB)	Aircraft	Operation Time and date		Sound Exposure Level (dB)	Duration (sec)
NMS08	89.8	Boeing 727-200	Departure off Rwy 24L	12/27/2009 10:27 p.m.	98.8	43.5
NMS08	87.4	Airbus A300-600	Arrival on Rwy 6R	12/23/2009 8:13 p.m.	91.4	22.5
NMS08	86.2	Boeing 737-500	Arrival on Rwy 6R	10/10/2009 8:12 a.m.	90.9	16.5
NMS09	95.9	Unknown Aircraft	Departure off Rwy 24L or 24R	12/17/2009 11:06 a.m.	103.7	37.5
NMS09	89.8	Boeing 737-200	Departure off Rwy 24L	11/29/2009 1:06 p.m.	98.9	54.5
NMS09	89.6	Boeing 737-200	Departure off Rwy 24L	11/20/2009 10:55 a.m.	98.0	36.0
NMS10	90.6	Unknown Aircraft	Departure off Rwy 24L or 24R	11/06/2009 12:28 a.m.	98.0	38.5
NMS10	85.8	Learjet 25	Departure off Rwy 24L	11/24/2009 8:10 p.m.	95.1	49.5
NMS10	84.7	Boeing 727-200	Departure off Rwy 24L	11/30/2009 11:31 p.m.	92.3	45.5
NMS11	85.9	Boeing 737-200	Departure off Rwy 6L	10/16/2009 8:46 a.m.	94.3	30.5
NMS11	85.9	Beechcraft 1900	Arrival on Rwy 24L	11/26/2009 5:59 p.m.	91.7	21.0
NMS11	84.9	Boeing 737-300	Departure off Rwy 6L or 6R	10/12/2009 6:21 p.m.	91.8	20.0
NMS12	91.9	MD-87	Departure off Rwy 6L	10/17/2009 2:49 p.m.	98.3	28.5
NMS12	89.2	MD-11	Departure off Rwy 6R	12/08/2009 10:56 p.m.	95.8	42.0
NMS12	88.3	Airbus A300-600	Departure off Rwy 6R	12/08/2009 12:04 a.m.	95.5	33.5

Sound Exposure Level is a measure that takes into account all noise over the entire duration of an event.



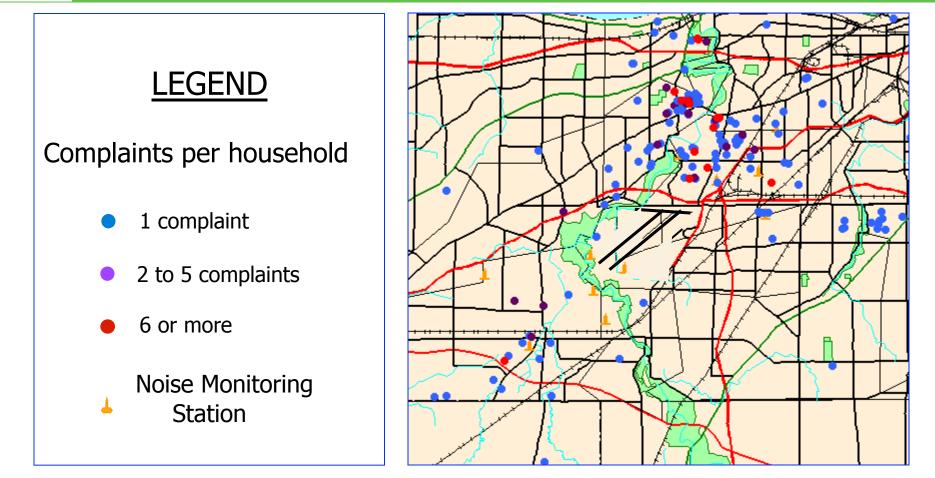
Noise Hotline

City	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual	%	Callers	%
Berea	0	0	1	1	2	0.35%	2	1.17%
Brook Park	0	0	4	3	7	1.21%	6	3.51%
Cleveland	41	107	124	49	321	55.54%	55	32.16%
Fairview Park	4	12	93	5	114	19.72%	47	27.49%
Lakewood	2	0	0	0	2	0.35%	1	0.58%
Middleburg Hts.	0	0	0	0	0	0.00%	0	0.00%
North Olmsted	0	2	1	0	3	0.52%	1	0.58%
Olmsted Falls	3	4	7	0	14	2.42%	9	5.26%
Olmsted Twp.	1	7	15	2	25	4.32%	8	4.68%
Parma	0	2	15	8	25	4.32%	20	11.70%
Parma Heights	0	0	0	0	0	0.00%	0	0.00%
Rocky River	0	33	17	3	53	9.17%	12	7.02%
Westlake	0	1	2	0	3	0.52%	3	1.76%
Other	1	1	5	2	9	1.56%	7	4.09%
Total 2009	52	169	284	73	578	100.0%	171	100.0%
Total 2008	100	230	322	92	744	100.0%	183	100.0%

There was a 22% reduction in noise complaints for Year 2009, as compared to Year 2008 Noise Compatibility 2009 Year End Report



2009 Annual Complaint Map





2010 Forward Plan

- Noise Compatibility Plan Update (FAR Part 150 Study)
 - Additional Working Group meetings and Public Workshops to be held
 - Study to be submitted to the FAA for approval
- Labor Day Air show to be held at Burke Lakefront Airport featuring the Blue Angels
- Airport perimeter road construction now in progress; may cause intermittent closures of Runway 10/28
- Planned Runway 10/28 project may start in fall 2010
- Master Plan will be finalized and submitted to the FAA for approval
- Stimulus funded taxiway and hold pad project will be substantially complete

CLE. Going places.

CLEVELAND HOPKINS