

Noise Compatibility

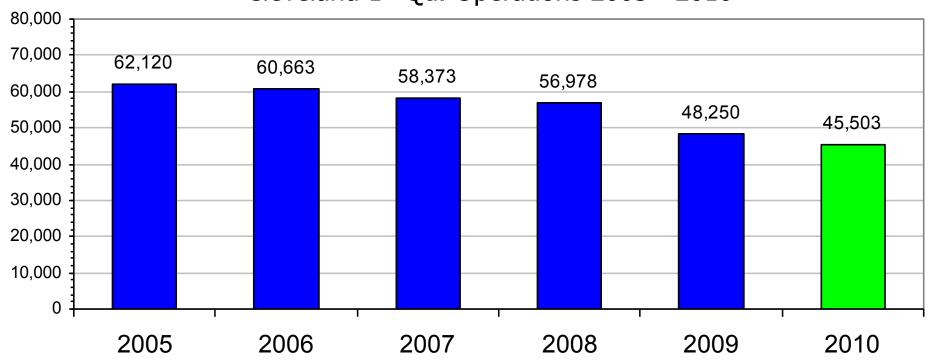
1st Quarter 2010

May 21, 2010





Cleveland 1st Qtr. Operations 2005 - 2010



There were 45,503 landings and takeoffs in the 1st qtr. 2010; this is 5.7% below the 1st qtr. 2009.



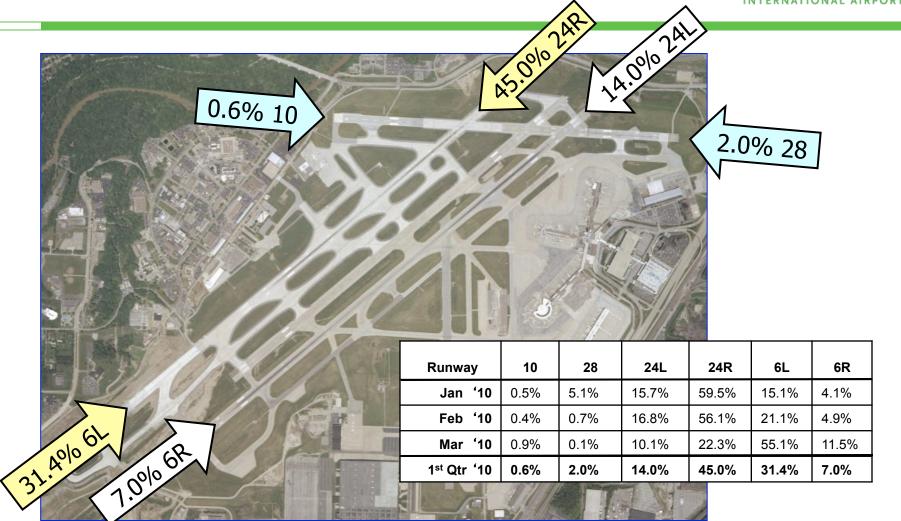
Fleet Mix: 1st Qtr, 2010 vs. 1st Qtr, 2009

Landings & Takeoffs

	1 st Qt	r, 2010	1 st Qtr, 2009		
Commercial -Stage 2 with hush kit -Heavy (incl all B757s) -Other Stage 3 -Regional Jet -Turboprop	46 680 11,724 23,781 6,190	0.10% 1.50% 25.77% 52.26% 13.60%	65 842 13,737 23,154 6,756	0.1% 1.7% 28.5% 48.0% 14.0%	
Air Taxi	1,052	2.31%	1,987	4.1%	
General Aviation	1,961	4.31%	1,668	3.5%	
Military	69	0.15%	41	0.1%	
Total	45,503	100.00%	48,250	100.0%	

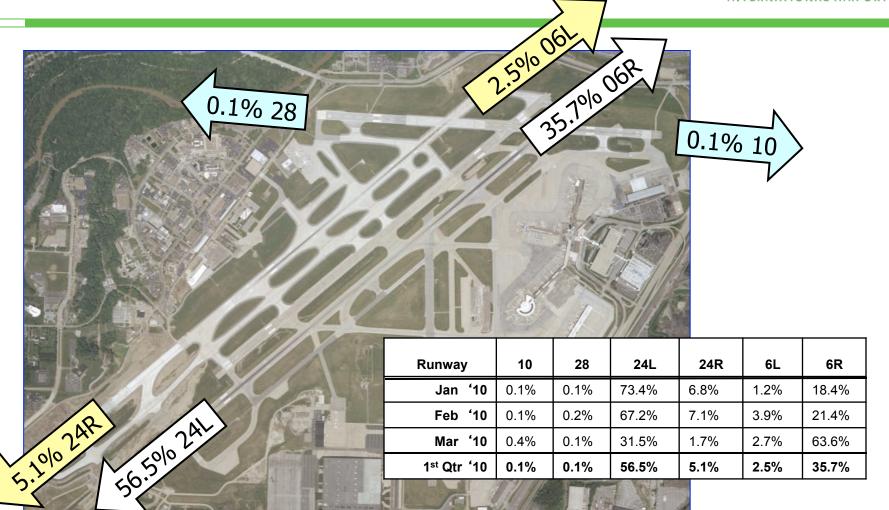






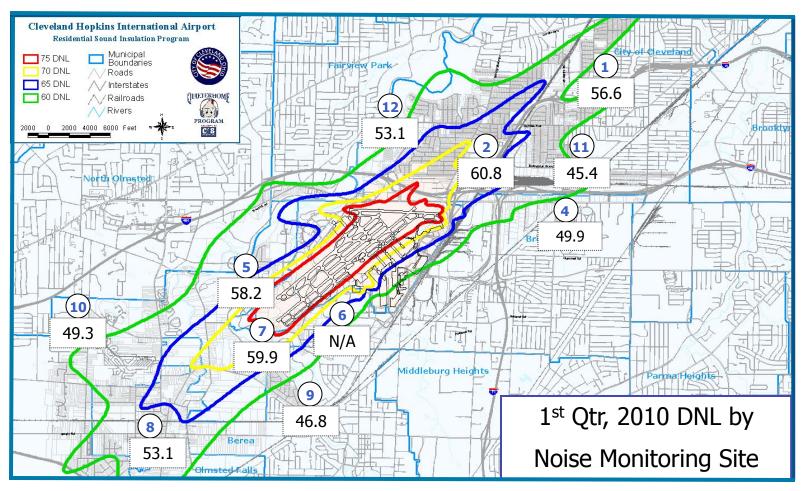


Runway Use: 1st Qtr, 2010 Take-Offs



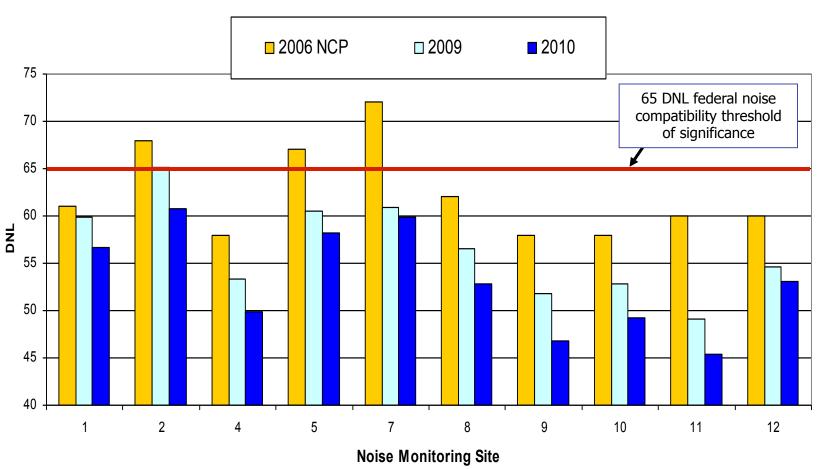


Aircraft Noise





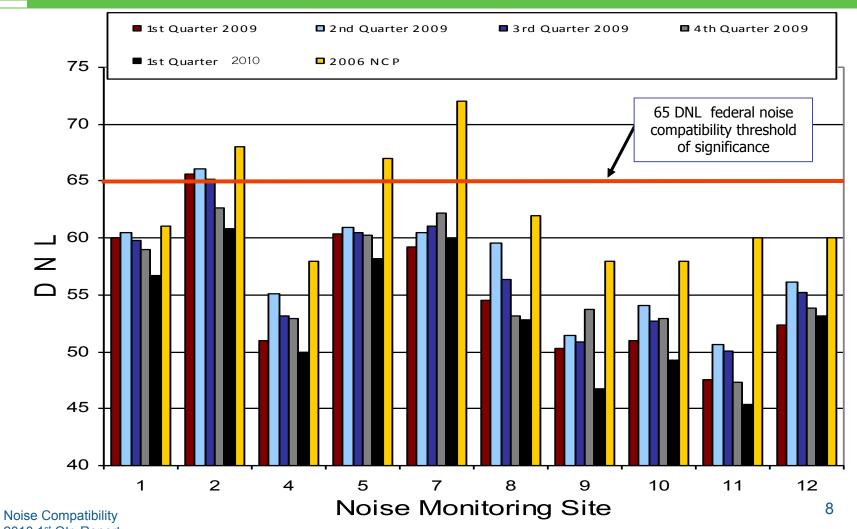
DNL: 1st Qtr, 2010 vs. 1st Qtr, 2009



NMS06 was disconnected from power, dismantled and placed in storage in November 2008 due to runway expansion.



Five Qtr DNL Comparison

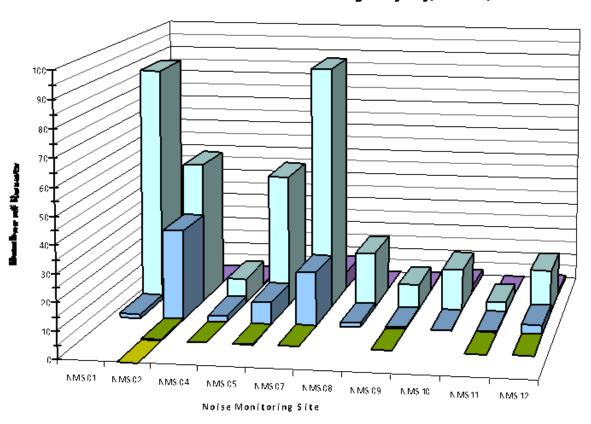


2010 1st Qtr. Report



Distribution of Noise Events

Distribution of Lmax Averaged by Day, 1st Qtr, 2010



- **□** 65-70 dB
- □ 70-80 dB
- 80-90 dB
- 90-100 dB
- □ >100 dB



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

NMS	Lmax (dB)	Aircraft	Operation	Time and date	Sound Exposure Level (dB)	Duration (sec)
NMS01	87.1	Lear 25	Arrival on Rwy 24R	3/18/2010 18:54	93.7	25.0
NMS01	87.1	Lear 25	Arrival on Rwy 24R	3/23/2010 15:21	94.3	29.5
NMS01	86.7	Lear 25	Arrival on Rwy 24R	1/26/2010 14:48	93.4	33.5
NMS02	100.2	Lear 25	Departure off Rwy 6R	3/30/2010 12:55	106.3	49.5
NMS02	93.2	MD-11	Arrival on Rwy 24L	2/24/2010 5:53	97.8	18.5
NMS02	91.8	B737-300	Arrival on Rwy 24L	3/31/2010 22:08	94.7	14.0
NMS04	93.6	Lear 25	Arrival on Rwy 28	1/19/2010 18:34	100.2	18.0
NMS04	87.2	B737-400	Arrival on Rwy 28	1/19/2010 19:06	92.5	18.0
NMS04	87.1	B737-300	Arrival on Rwy 28	1/4/2010 15:06	93.9	38.5
NMS05	91.2	Lear 25	Departure off Rwy 6R	1/21/2010 17:36	99.9	67.0
NMS05	91.2	Lear 25	Departure off Rwy 24L	2/16/2010 14:56	99.4	54.5
NMS05	91.1	Lear 25	Departure off Rwy 24L	1/27/2010 15:11	96.9	36.0
NMS07	97.0	Lear 25	Departure off Rwy 24L	1/4/2010 11:56	103.5	42.0
NMS07	96.7	Lear 25	Departure off Rwy 24L	1/26/2010 17:20	104.9	44.0
NMS07	95.5	B737-200	Departure off Rwy 24L	3/6/2010 12:21	101.8	42.0

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, 1st Qtr, (2 of 2)

NMS	Lmax (dB)	Aircraft	Operation	Time and date	Sound Exposure Level (dB)	Duration (sec)
NMS08	88.1	Lear 25	Departure off Rwy 24L	1/4/2010 11:56	95.0	47.0
NMS08	86.5	Helicopter	Arrival at Hopkins	3/29/2010 17:21	95.3	46.5
NMS08	86.3	Lear 25	Departure off Rwy 24R	3/18/2010 10:14	95.5	43.0
NMS09	90.3	Lear 25	Departure off Rwy 24L	3/18/2010 21:42	98.5	42.0
NMS09	89.9	B737-200	Departure off Rwy 24L	1/17/2010 8:38	98.6	35.5
NMS09	88.6	B737-200	Departure off Rwy 24L	1/16/2010 10:01	97.2	37.5
NMS10	83.6	DC-9 Series 30	Departure off Rwy 24R	2/11/2010 1:11	92.1	29.0
NMS10	83.2	B737-900	Departure off Rwy 24L	1/7/2010 17:44	90.9	27.0
NMS10	82.4	MD-11	Departure off Rwy 24R	1/25/2010 22:32	90.4	25.5
NMS11	91.3	Lear 25	Departure off Rwy 10	3/25/2010 13:01	99.9	40.5
NMS11	90.0	MD-82	Departure off Rwy 6L	2/25/2010 12:20	95.8	23.5
NMS11	86.4	Lear 25	Departure off Rwy 6R	3/30/2010 12:55	95.3	40.0
NMS12	91.7	MD-11	Departure off Rwy 6R	3/11/2010 22:32	97.6	25.5
NMS12	89.0	Helicopter	Departure from Hopkins	3/12/2010 17:17	94.5	25.5
NMS12	87.8	MD-11	Departure off Rwy 6L	3/30/2010 22:39	94.4	25.5

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



Noise Hotline (216.898.5220)

	Jan	Feb	Mar	1st Qtr	%	Callers	%
Berea	0	0	0	0	0.00%	0	0.00%
Brook Park	0	0	1	1	1.89%	1	8.33%
Cleveland	10	4	20	34	64.15%	4	33.33%
Fairview Park	0	0	2	2	3.77%	2	16.67%
Lakewood	0	0	0	0	0.00%	0	0.00%
Middleburg Hts.	0	0	0	0	0.00%	0	0.00%
North Olmsted	0	0	0	0	0.00%	0	0.00%
Olmsted Falls	0	0	0	0	0.00%	0	0.00%
Olmsted Twp	0	0	0	0	0.00%	0	0.00%
Parma	1	0	0	1	1.89%	1	8.33%
Parma Heights	0	0	0	0	0.00%	0	0.00%
Rocky River	2	1	11	14	26.42%	3	25.00%
Westlake	0	0	0	0	0.00%	0	0.00%
Other	1	0	0	1	1.89%	1	8.33%
Total (2010)	14	5	34	53	100.00%	12	100.00%
Total (2009)	6	10	36	52	100.00%	17	100.00%

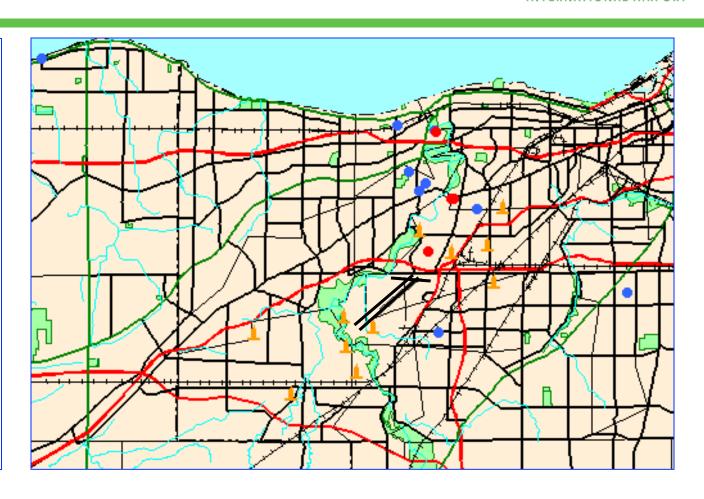




LEGEND

Complaints per household

- 1 complaint
- 2 to 5 complaints
- 6 or more
- Noise Monitoring Station



CLE.
Going places.

