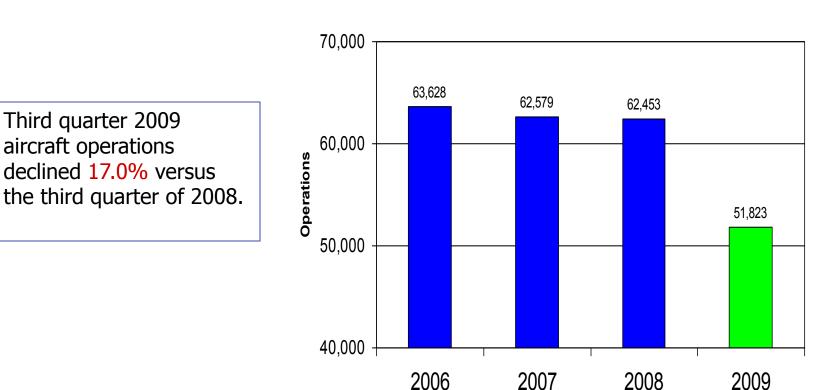


Noise Compatibility Report 3rd Quarter 2009

Nov 13, 2009



Aircraft Operations



3rd Quarter Operations

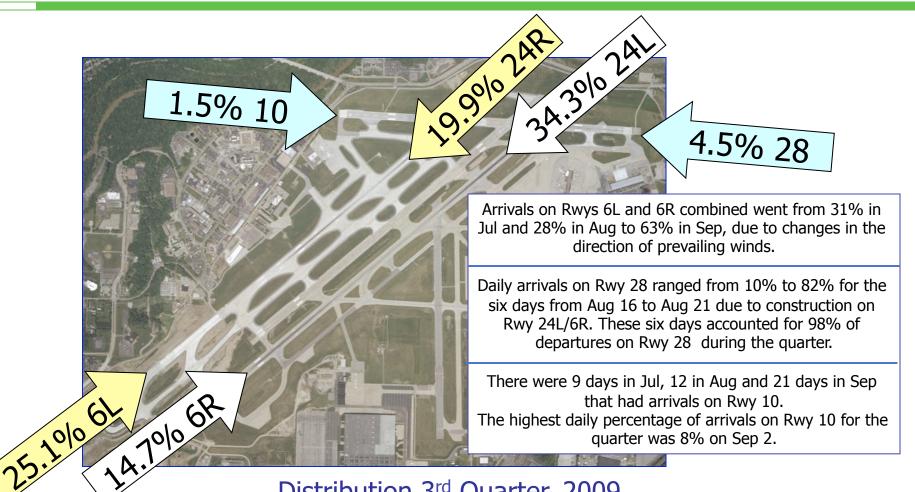


Fleet Mix

	Third Quarter 2009	Landings & Takeoffs	Distribution
There were 128 MD11 operations during the 3 rd Qtr of 2009, as compared	Air Carrier - Stage 2 ^{with hush kit}	78	0.15%
to 124 in the 2 nd Qtr. Heavy aircraft operations increased slightly.	- Heavy (MD11, B757, etc.) - Other Stage 3	1,268 13,735	2.45% 26.50%
The number of Stage 2	Regional Jet	26,160	50.48%
(with hush kit) operations was 78, as compared to 102 in the 2 nd Qtr.	Turboprop	7,863	15.17%
Military operations	Air Taxi	502	0.97%
increased significantly due to the Cleveland Air Show.	General Aviation	2,107	4.07%
	Military	110	0.21%
		51,823	100.0%
Naisa Careactibility Depart			3



Runway Use Landings



Distribution 3rd Quarter, 2009



Runway Use Take-Offs

0.2% 28

.8010 2AR

10/0241

Departures on Rwys 6L and 6R combined went from 31% in Jul and 27% in Aug to 63% in Sep, due to changes in the direction of the prevailing winds.

0.3% 10

29.4010 068

10.2010 061

There were only three days with more than 2% of departures from Rwys 10/28. They were Jul 11, with 4% from Rwy 28, and Aug 6 and 7, both with 3% from Rwy 10. On about half of the days, there were no departures from Rwy 10 or Rwy 28. On most other days, there were one or two departures.

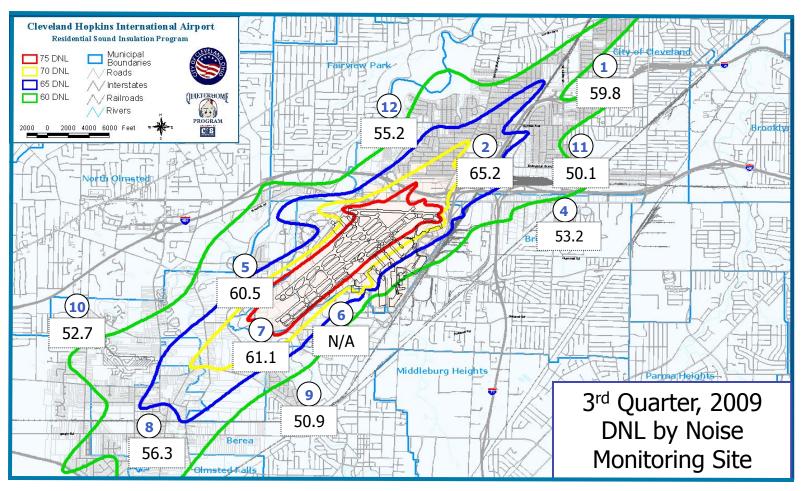
Distribution 3rd Quarter, 2009

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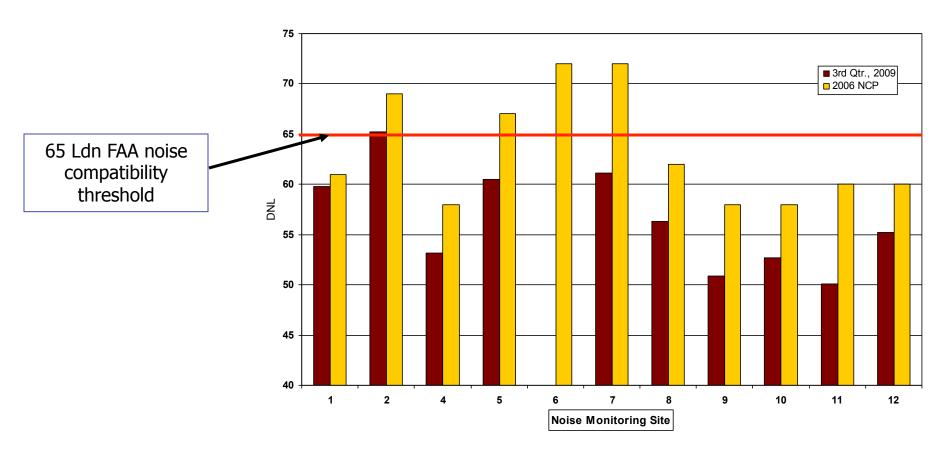


Aircraft Noise





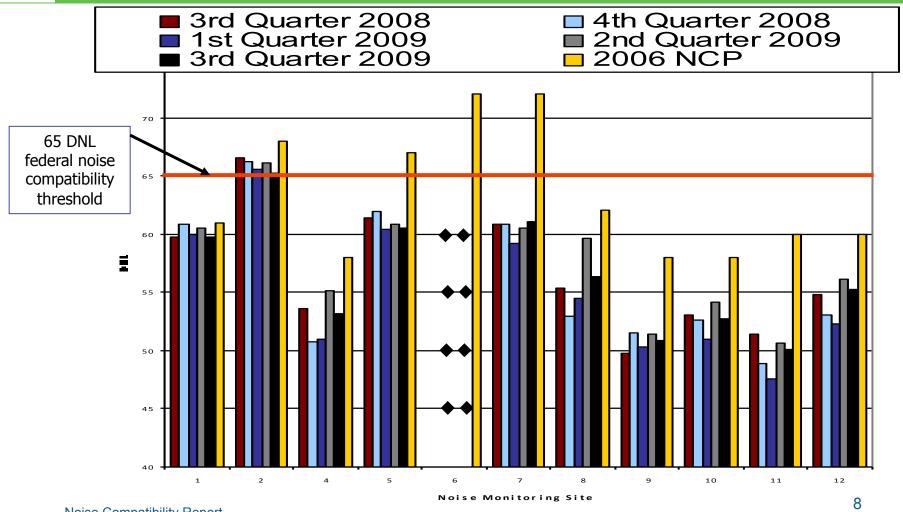
DNL 3rd Quarter 2009



Noise Monitoring Site 3 was permanently dismantled due to relocation of Brookpark Road Noise Monitoring Site 6 has been dismantled and is in storage pending relocation.



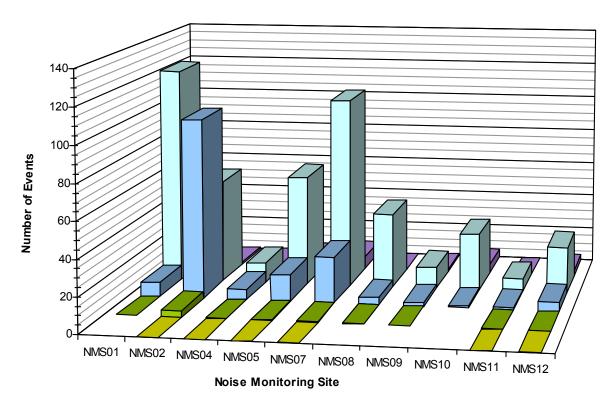
DNL Comparison by Quarter





Distribution of Noise Events

Distribution of Lmax Averaged by Day, 3rd Quarter, 2009



■ 60-70 dB
□ 70-80 dB
■ 80-90 dB
□ 90-100 dB
□ >100 dB



Top 3 Lmaxs at each NMS (1 of 2)

NMS	Lmax (dB)	Aircraft	Operation	Time and date	Sound Exposure Level (dB)	Duration (sec)
NMS01	93.1	Boeing 747 SP	Arrival on Rwy 24L	7/24/2009 18:49	98.3	45.0
NMS01	91.3	Possibly non-aircraft	Arrival? on Rwy 24L or R?	9/05/2009 4:18	97.0	34.0
NMS01	89.8	Military	Departure off Rwy 6L or R	9/05/2009 15:59	97.0	21.5
NMS02	107.6	Military	Departure off Rwy 6L or R	9/05/2009 15:59	111.8	16.5
NMS02	107.5	Military	Arrival on Rwy 24L or R	9/04/2009 14:00	110.1	27.0
NMS02	101.0	Military	Departure off Rwy 6R	9/05/2009 9:54	110.0	37.0
NMS04	102.1	Military	Departure off Rwy 6L or 6R	9/08/2009 15:06	108.5	37.0
NMS04	96.4	Military	Departure from Rwy 6L or R?	9/05/2009 12:23	102.6	21.0
NMS04	95.2	Military	Departure off Rwy 6R	9/13/2009 14:36	102.3	43.0
NMS05	102.3	Military	Take-off roll on Rwy 6L or R	9/08/2009 11:10	108.6	36.5
NMS05	101.2	Military	Take-off roll on Rwy 6R	9/07/2009 18:27	112.3	74.5
NMS05	99.3	Military	Take-off roll on Rwy 6R	9/03/2009 17:37	107.3	50.5
NMS07	101.6	Military (C-9)	Departure off Rwy 24R	8/06/2009 10:50	107.5	36.0
NMS07	100.3	Learjet 25	Departure off Rwy 24L or R	7/10/2009 9:27	106.3	34.0
NMS07	100.2	Learjet 25	Departure off Rwy 24R	8/16/2009 13:47	105.3	33.0

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 (2 of 2)

NMS	Lmax (dB)	Aircraft	Operation	Time and date	Sound Exposure Level (dB)	Duration (sec)
NMS08	93.9	Boeing 707-300	Departure off Rwy 24L	7/03/2009 20:22	100.9	32.0
NMS08	92.9	Military	Arrival on Rwy 6L	9/11/2009 15:21	99.9	40.5
NMS08	86.0	Military	Arrival on Rwy 6L	9/04/2009 14:50	96.7	13.0
NMS09	95.2	Learjet 25	Departure off Rwy 24R	8/16/2009 13:47	102.4	33.5
NMS09	94.9	Military	Arrival on Rwy 6R	9/06/2009 13:50	99.8	13.0
NMS09	91.0	Military (C-9)	Departure off Rwy 24L or 24R	8/06/2009 10:51	98.3	27.5
NMS10	88.6	Learjet 25	Departure off Rwy 24R	7/17/2009 11:28	94.1	40.0
NMS10	85.9	Gulf 3	Departure off Rwy 24R	8/16/2009 18:58	93.2	28.5
NMS10	85.9	Learjet 25	Departure off 24R or L	8/19/2009 00:28	95.7	43.0
NMS11	103.8	Military	Departure off Rwy 6L or R	9/5/2009 15:59	108.2	65.5
NMS11	98.7	Military	Departure off Rwy 6L	9/04/2009 14:01	105.2	67.5
NMS11	94.7	Military	Departure off Rwy 6L or R	9/06/2009 15:54	99.5	27.5
NMS12	100.6	Military	Arrival on Rwy 10	9/03/2009 10:36	106.7	18.5
NMS12	92.6	Military	Departure off Rwy 6R	9/03/2009 17:38	99.2	40.5
NMS12	92.5	Military	Departure off Rwy 6L or R	9/04/2009 14:02	99.9	38.0

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



Noise Hotline (216.898.5220)

	Jul, 2009		Aug, 2009		Sep, 2009		Total Q3, 2009		Total Q3, 2008	
City	Calls	Callers	Calls	Callers	Calls	Callers	Calls	Callers	Calls	Callers
Berea	1	1	0	0	0	0	1	1	1	1
Brook Park	0	0	4	3	0	0	4	3	4	4
Cleveland	30	9	37	19	57	18	124	36	131	29
Fairview Park	7	6	6	5	80	26	93	34	20	11
Lakewood	0	0	0	0	0	0	0	0	0	0
Middleburg Hts.	0	0	0	0	0	0	0	0	0	0
North Olmsted	0	0	1	1	0	0	1	1	0	0
Olmsted Falls	5	3	1	1	1	1	7	5	2	2
Olmsted Twp	1	1	6	3	8	3	15	5	10	8
Parma	0	0	15	14	0	0	15	14	3	3
Parma Heights	0	0	0	0	0	0	0	0	0	0
Rocky River	6	4	0	0	11	6	17	9	109	13
Westlake	0	0	0	0	2	2	2	2	0	0
Other	1	1	4	3	0	0	5	4	3	3
Total	51	25	74	49	159	56	284	114	283	74

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Since households may call for two or more months during the quarter, summing caller numbers across a row could yield a result greater than the actual total number of households that called during that quarter. 12



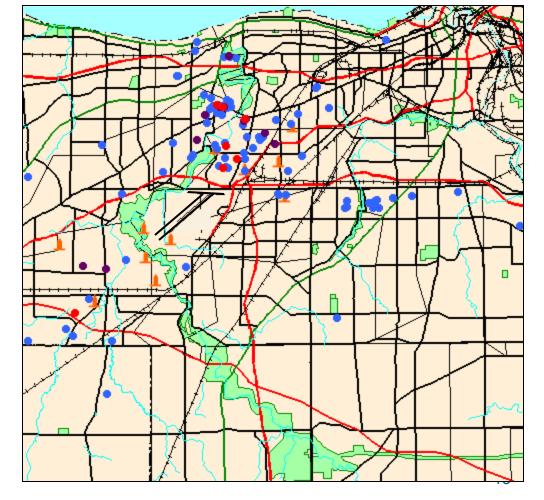
3rd Quarter, 2009 Complaint Map

Complaints increased along the Rwy 10 and 6R approach paths and in the Coffinberry neighborhood of Fairview Park.

<u>LEGEND</u>

Complaints per household

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



CLE. Going places.

CLEVELAND HOPKINS