

Noise Compatibility Report

2nd Quarter 2009

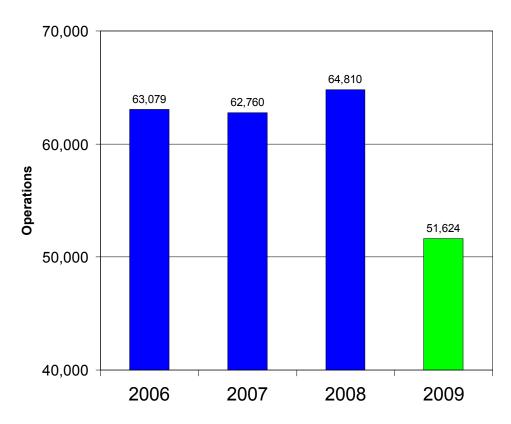
September 4, 2009



Aircraft Operations

Second quarter 2009 aircraft operations declined 20.3% versus the second quarter 2008.

2nd Quarter Operations





Fleet Mix

MD11 operations increased to 124 during the 2nd Qtr, as compared to 62 in the 1st Qtr of 2009. There were only two during the entire 2008 calendar year.

During the 2nd quarter of 2009, the number of Stage 2 (with hush kit) operations was 102, as compared to 560 in the 1st quarter of 2008.

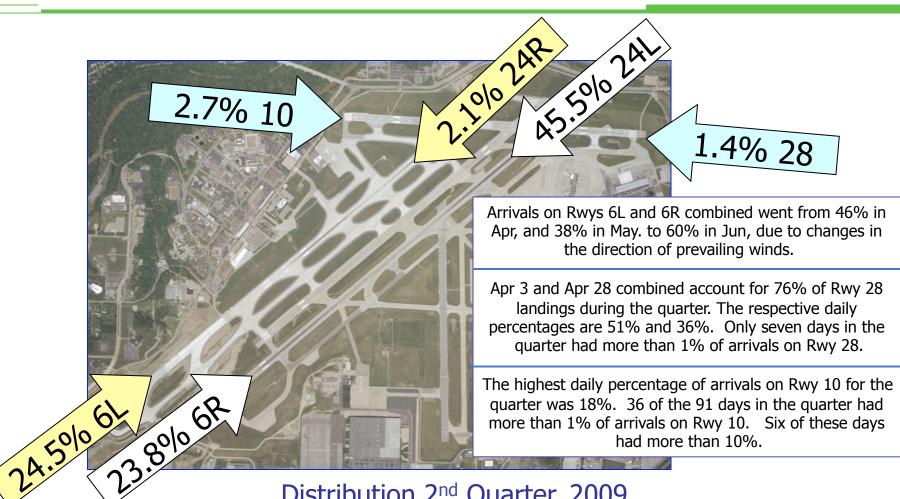
Second Quarter 2009	Landings &Takeoffs	Distribution
Air Carrier - Stage 2 with hush kit	102	0.2%
- Heavy (MD11, B757, etc.)	1,090	2.1%
- Other Stage 3	14,457	28.0%
Regional Jet	25,276	49.0%
Turboprop	7,892	15.3%
Air Taxi	680	1.3%
General Aviation	2,062	4.0%
Military	65	0.1%

100.0%

51,624



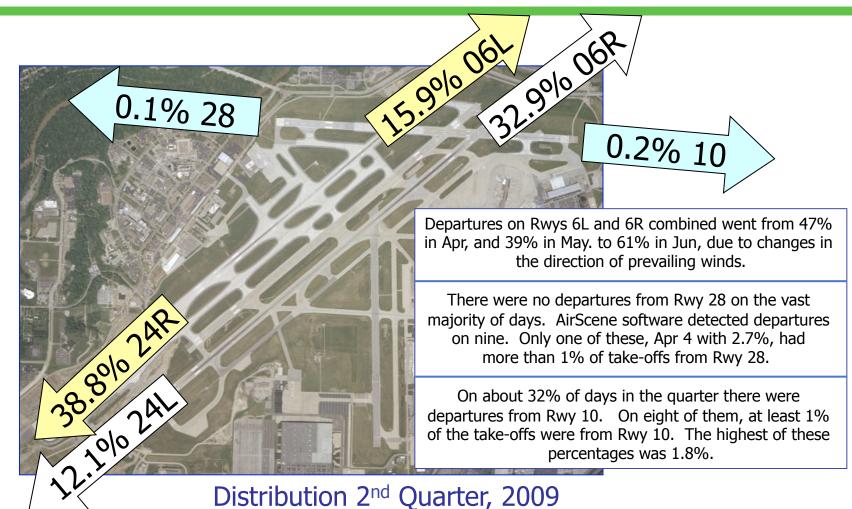
Runway Use Landings



Distribution 2nd Quarter, 2009



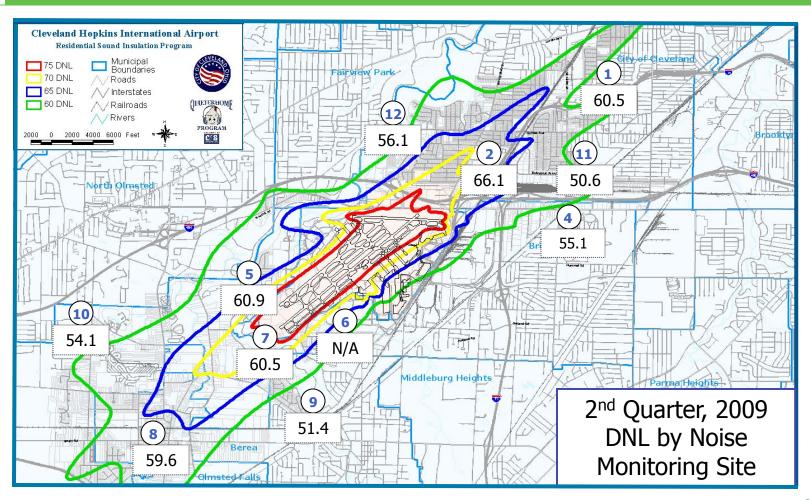
Runway Use Take-Offs



Noise Compatibility Report 2nd Quarter 2009 Sep 4, 2009

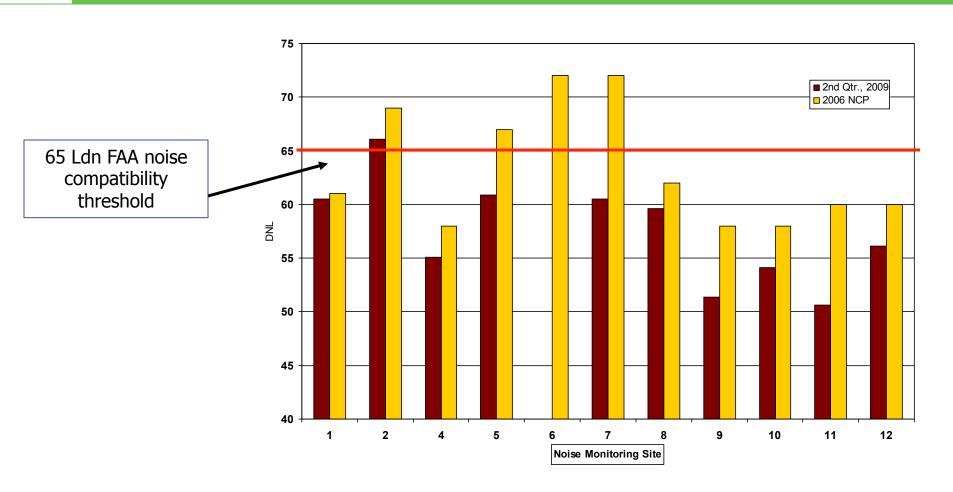


Aircraft Noise



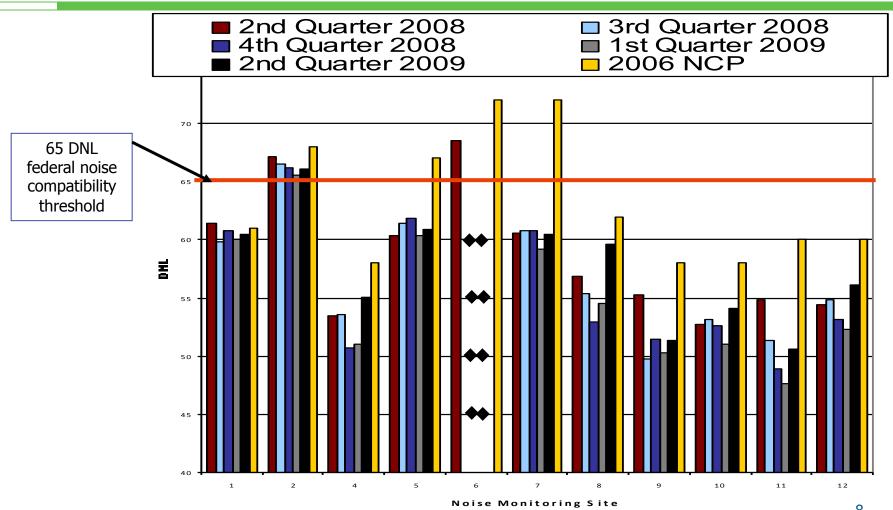


DNL 2nd Quarter 2009





DNL Comparison by Quarter





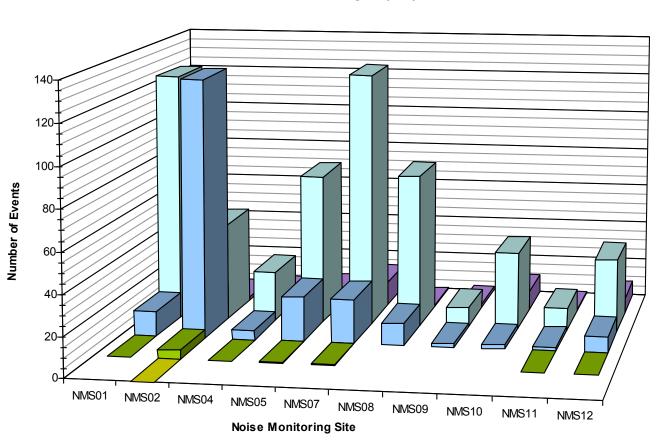
□ 60-70 dB □ 70-80 dB

■ 80-90 dB ■ 90-100 dB

□ >100 dB

Distribution of Noise Events

Distribution of Lmax Averaged by Day, 2nd Quarter, 2009





Top 3 Lmaxs at each NMS (1 of 2)

NMS	Lmax (dB)	Aircraft	Operation	Time and date	Sound Exposure Level (dB)	Duration (sec)
NMS01	90.3	Gulfstream III	Arrival on Rwy 24L	4/21/2009 0:34	96.6	39.5
			•			
NMS01	88.4	MD11	Arrival on Rwy 24L	5/16/2009 6:10	96.7	31.0
NMS01	88.0	MD11	Arrival on Rwy 24L	4/20/2009 16:15	94.0	34.5
NMS02	100.6	MD11	Arrival on Rwy 24L	5/14/2009 5:57	103.0	23.0
NMS02	99.1	MD11	Arrival on Rwy 24L	5/16/2009 6:11	102.4	24.5
NMS02	97.6	DC9-50	Arrival on Rwy 24L	4/24/2009 16:16	100.7	15.5
NMS04	96.1	Learjet 25	Arrival on Rwy 28	6/15/2009 13:36	103.5	37.0
NMS04	90.9	B737-300	Arrival on Rwy 28	4/3/2009 14:55	96.5	27.5
NMS04	90.3	Learjet 25	Departure off Rwy 10	6/22/2009 11:03	99.8	34.5
NMS05	94.8	Gulfstream III	Departure off Rwy 24R	4/21/2009 18:20	99.1	27.5
NMS05	93.9	DC9-50	Departure off Rwy 24L or 24R	4/6/2009 17:24	103.1	47.5
NMS05	93.8	DC9-50	Departure off Rwy 24R	5/1/2009 17:10	101.7	27.5
NMS07	98.0	Learjet 25	Departure off Rwy 24R	6/29/2009 10:31	104.3	29.0
NMS07	95.6	B737-200	Departure off Rwy 24L	6/19/2009 8:57	102.7	38.0
NMS07	92.7	B737-200	Departure off Rwy 24L	5/9/2009 9:56	100.2	34.5

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 (2 of 2)

NMS	Lmax (dB)	Aircraft	Operation	Time and date	Sound Exposure Level (dB)	Duration (sec)
NMS08	86.1	unknown	unknown - could be non-aircraft	4/7/2009 3:20	92.6	31.5
NMS08	86.1	MD11	Arrival on Rwy 6R	6/25/2009 5:43	92.4	20.0
NMS08	86.0	MD11	Arrival on Rwy 6R	6/17/2009 5:49	94.0	24.0
NMS09	88.0	unknown	Possible departure off Rwy 24R	4/24/2009 12:50	92.8	18.0
NMS09	86.5	B757-300	Departure off Rwy 24R	6/19/2009 8:59	92.2	34.0
NMS09	86.0	B737-700	Departure off Rwy 24L or 24R	5/2/2009 8:12	93.5	24.0
NMS10	89.6	Gulfstream III	Departure off Rwy 24R	4/21/2009 18:21	97.7	42.0
NMS10	87.2	DC9-50	Departure off 24L	4/26/2009 17:22	96.6	41.5
NMS10	83.9	DC9-50	Departure off 24R	4/09/2009 17:12	91.2	22.0
NMS11	90.8	unknown aircraft	Departure off Rwy 6L or 6R	4/2/2009 17:54	99.2	44.5
NMS11	90.1	B737-200	Departure off Rwy 6R	5/24/2009 13:09	97.1	26.5
NMS11	88.7	B707-300	Departure off UNK	5/17/2009 17:39	96.6	36.0
NMS12	93.7	DC9-50	Departure off Rwy 6L	4/13/2009 17:19	99.9	27.0
NMS12	89.0	DC9-50	Departure off Rwy 6R	4/10/2009 17:47	97.2	34.0
NMS12	87.6	B737-300	Departure off Rwy 6R	4/29/2009 16:57	92.2	18.0

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



Noise Hotline (216.898.5220)

	Apr, 2009		May, 2009		Jun, 2009		Total Q2, 2009		Total Q2, 2008	
City	Calls	Callers	Calls	Callers	Calls	Callers	Calls	Callers	Calls	Callers
Berea	0	0	0	0	0	0	0	0	1	1
Brook Park	0	0	0	0	0	0	0	0	4	4
Cleveland	25	6	15	3	67	16	107	17	171	24
Fairview Park	1	1	1	1	10	10	12	12	12	8
Lakewood	0	0	0	0	0	0	0	0	1	1
Middleburg Hts.	0	0	0	0	0	0	0	0	0	0
North Olmsted	0	0	2	1	0	0	2	1	0	0
Olmsted Falls	0	0	2	1	2	2	4	3	1	1
Olmsted Twp	0	0	1	1	6	2	7	2	3	3
Parma	0	0	1	1	1	1	2	2	1	1
Parma Heights	0	0	0	0	0	0	0	0	0	0
Rocky River	5	2	9	3	19	5	33	5	35	6
Westlake	0	0	1	1	0	0	1	1	0	0
Other	0	0	0	0	1	1	1	1	1	1
Total	31	9	32	12	106	37	169	44	230	50



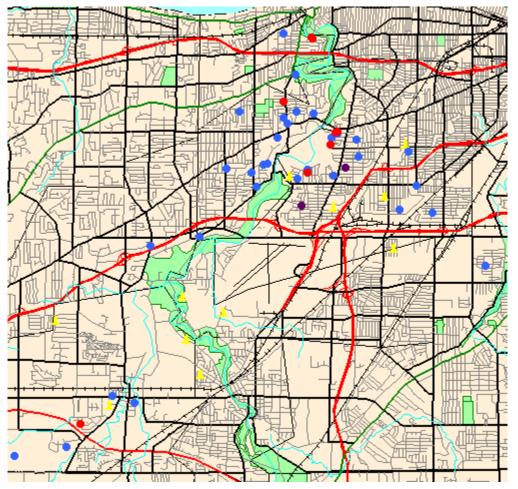
2nd Quarter, 2009 Complaint Map

Nearly all complaints this quarter are under arrival and departure routes for Runways 6L or 6R.

LEGEND

Complaints per household

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



CLE.
Going places.

