



How Noise Contours are Generated

User Inputs

Inputs

- Airport Information
- Aircraft Flight Tracks
- Aircraft Fleet
- Number of Operations
- Runway Utilization
- Time of Day
- Aircraft Climb Profiles
- Departure Trip Length
- Meteorological Data
- Topographic Data

Source

- ▶ Airport Layout Plan
- ▶ FAA Radar Data
- ▶ Tower, Airport Records, OAG
- ▶ Tower, Airport Records, OAG
- ▶ Radar/Wind Data, Airport Records
- ▶ Radar Data, OAG, Airport Records
- ▶ INM, Radar Data, Airline Records
- ▶ OAG
- ▶ Climatic Data, Airport Records
- ▶ Airport Layout Plan, U.S. Geological Survey



Integrated Noise Model (INM)

INM-Provided Information

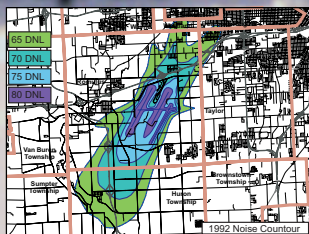
- Aircraft Noise Levels
- Aircraft Performance Data



Types of Aircraft Noise Considered within INM

- Arrival
- Departure
- Flyover
- Reverse Thrust (Braking)
- Run-up Noise

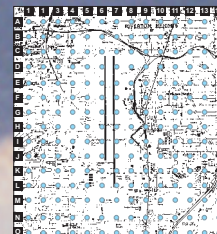
Output



Noise Contours

SUMMARY OF GRID DATA - Comparative DNL and SEL Data With and Without NADP Close-In and Distant Procedures Changes Between Baseline and Interim Report C14-1												
Line	GRID POINTS		DNL and SEL Changes				SEL and SEL Changes					
	X	Y	Interim	Baseline	Change	Interim	Baseline	Change	Interim	Baseline	Change	
1	-13000	24000	49.1	48.5	-0.6	47.4	-1	96.4	95.1	-1.3	92.4	-4.0
2	-13000	24000	51.8	50.8	-1.0	49.5	-2.3	97.5	95.1	-2.4	93.6	-3.9
3	-4000	24000	51.8	50.5	-1.3	49.7	-2.1	102.5	97.1	-5.4	97.2	-5.3
4	-4000	24000	54.0	53.8	-0.2	53.7	-0.3	96.7	95.7	-1.0	91.5	-5.2
5	-3000	24000	58.2	58.1	-0.1	59.1	-0.1	98.7	98.7	0.0	98.7	0.0
6	0	24000	52.9	52.7	-0.2	52.4	-0.5	92.1	91.2	-0.9	88.8	-3.3
7	3000	24000	58.3	58.0	-0.3	58.4	-0.3	98.4	96.0	-2.4	94.7	-3.7
8	6000	24000	50.8	50.1	-0.7	49.3	-1.5	95.0	92.1	-2.9	90.8	-4.2
9	-13000	21000	47.8	47.1	-0.7	46.0	-1.8	93.8	91.6	-2.2	89.3	-4.5
10	-12000	21000	51.5	50.7	-0.8	49.5	-2.0	98.6	95.8	-2.7	94.7	-3.9
11	-4000	21000	53.8	52.3	-1.5	52.0	-1.8	104.3	97.3	-7.0	103.1	-1.2
12	4000	21000	54.9	54.2	-0.7	54.3	-0.6	101.6	94.9	-6.7	100.9	-0.7
13	-3000	21000	56.7	56.5	-0.2	56.6	-0.1	99.3	99.1	-0.2	92.3	-7.0
14	0	21000	53.1	52.8	-0.3	52.5	-0.6	93.5	91.0	-2.5	89.3	-4.2
15	3000	21000	58.2	58.0	-0.2	58.6	-0.6	99.9	95.5	-4.4	95.5	-4.4
16	6000	21000	50.7	50.0	-0.7	49.2	-1.5	94.6	92.3	-2.3	90.3	-4.3
17	-10000	18000	47.2	46.4	-0.8	45.9	-0.5	90.9	85.5	-5.4	86.5	-4.4
18	-12000	18000	51.5	50.4	-1.1	49.7	-1.8	98.1	95.3	-2.8	93.8	-4.3
19	-4000	18000	54.7	52.8	-1.9	52.5	-2.2	101.8	97.5	-4.3	99.8	-1.9
20	4000	18000	57.2	55.4	-1.8	55.3	-1.9	106.8	98.6	-8.2	106.0	-0.8

Tabular Reports



Grid Point Analysis



Landrum & Brown

Since 1949

Note:

OAG: Official Airlines Guide