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This online report examines the noise, ground-level air quality, water pollution, global warming, and energy efficiency issues associated with America's airports. The information is excerpted from NRDC's print publication, *Flying Off Course*, published in October 1996. The specific data in the Airport Survey Results tables was collected in a 1995 National Airport Survey.

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Executive Summary

In January 1995, the Natural Resources Defense Council (NRDC) undertook a study to determine: (1) the most important environmental issues connected with airports, and (2) the best management techniques airports were using to mitigate them.

The bulk of our data came from a nationwide survey that we conducted in the spring and summer of 1995. We mailed a seven-page [questionnaire](#) to 125 of the nation's busiest airports, as defined by the Federal Aviation Administration (FAA) in terms of numbers of passengers, or enplanements. The questionnaire dealt with noise and land use, deicing and water quality, air pollution, expansion plans, and basic geographical information.

Forty-six of the 125 airports responded to our survey. In addition, we conducted in-depth research at government agencies on the country's 50 busiest airports.

We found that, while airports vary in terms of size and geographical characteristics, significant environmental impacts were common to most of the airports in our survey. We also found that the regulatory framework currently in place to address these impacts is inadequate. Because aviation is the fastest growing mode of transportation in the United States, increasing nearly twice as fast as motor-vehicle travel, these failings must be addressed. This report focuses on the issues we found to be most significant: noise and land use, ground-level air emissions, water pollution, and, on a more global scale, climate change and energy efficiency.

NRDC recognizes and supports the critical safety concerns and requirements of the FAA, the airports, and the flying public. These concerns and requirements have been taken into account in the recommendations of this report. Nothing recommended herein would compromise the safety of flying.

NOISE AND LAND USE

Aircraft noise -- like many environmental problems -- affects millions of people every day in myriad ways both short-term and long-term, both obvious and difficult to gauge. Studies

indicate that noise affects one's ability to concentrate and can cause sleep deprivation, resulting in potentially deleterious effects on health and well-being. Some studies have also shown that continuous exposure to high levels of aircraft noise is associated with hypertension, cardiovascular and gastrointestinal problems, and other disorders.

Despite the phasing-in of newer, quieter aircraft, noise near airports will, in all likelihood, increase in the next century. U.S. passenger air travel is expected to continue its current strong growth trends: the FAA predicts international enplanements to increase at a rate of 5.3% annually for the next 12 years, and domestic enplanements to increase at a rate of 3.7%. Aircraft operations, of course, will likewise increase: according to the FAA, there will be 36% more flights in 2007 than there are today.

Airport communities often find themselves with little recourse in addressing noise impacts under the FAA's current noise policies. In particular, the noise threshold that the FAA has set as compatible with residential use ("65 dB DNL") is problematic because: (1) it is based on an **averaging** of noise, rather than the loud "single event" noise that specifically characterizes aircraft noise, and (2) the threshold of 65 dB significantly underestimates the level at which many people are annoyed or impacted by aircraft noise.

Findings

- NRDC's Airport Survey demonstrates that the aircraft noise problem in the United States will probably worsen: at least 32 of the 50 busiest airports in the country have plans for expansion. The FAA reports that 60 of the 100 largest airports in this country are currently proposing to build new runways or runway extensions.
- The FAA's threshold of 65 dB DNL does not accurately assess how many people are disturbed by aircraft noise. NRDC's Airport Survey found that, despite the relatively few people living within its 65 dB DNL noise contour, Denver International Airport received the highest number of noise complaints per month.
- The most recent studies on noise and health have been conducted mostly in Europe rather than the United States. This is due, at least in part, to the current limited role of the U.S. Environmental Protection Agency (EPA) in the field of aircraft noise.
- While most airports have some type of program in place to lessen noise for their neighbors (such as using flight paths farther away from residential areas at night), NRDC believes that a fundamental key to good aircraft noise policy lies in setting appropriate land uses adjacent to airports.

Recommendations

1. **The sole use of DNL for measuring aircraft noise is inadequate.** DNL as a mechanism for determining funds for noise mitigation measures and land use planning should be reevaluated with full public review. Specifically, NRDC recommends that:
 - Rather than DNL, CNEL (community noise equivalent level) should be used to adequately account for the importance of

communication and relaxation during evening hours. The CNEL, used in California and many European countries, includes a 5 decibel penalty during the hours of 7:00 p.m. to 10:00 p.m. in addition to the DNL's 10 dB nighttime penalty.

- The FAA should use 55 dB CNEL, rather than 65 dB DNL, as the threshold for planning and funding decisions.
 - Single event noise must be taken into account when assessing the impacts of aircraft noise. Single events interrupt school lectures, wake people up, and interfere with speech intelligibility. The "single exposure level" (SEL), which measures the intensity of sound during a single noise event, should be used in conjunction with CNEL.
 - Noise mitigation plans should be site-specific. Many factors need to be considered, including seven key issues identified by EPA over 20 years ago, which remain relevant:
 1. Duration of intruding noises and frequency of occurrence
 2. Time of year (windows open or closed)
 3. Time of day of exposure
 4. Outdoor noise level in community when intruding noises are not present
 5. History of prior exposure to noise source
 6. Attitude toward the noise source
 7. Presence of pure tones or impulses.
2. **Airports and municipalities should be required to provide full disclosure to potential airport neighbors regarding levels of noise they can expect.** Disclosure statements should include an airport's current noise levels, flight paths, and future expansion plans. A state or local "Community Right to Know Noise" Act (similar to the act that requires industries to divulge information on toxic releases to a community) should be developed and implemented. This act would require municipalities and realtors to disclose information about current and expected noise levels to potential residents within the 55+ dB CNEL.
3. **The Office of Noise Abatement and Control should be reinstated within EPA, and funds allotted for research on noise and health.** The EPA, more than any other federal agency, should lead study of the impact of aircraft noise on health and well-being. EPA is the agency most directly responsible for the protection and regulation of public health and welfare, while the FAA has other unrelated, and sometimes conflicting responsibilities.

GROUND-LEVEL AIR EMISSIONS

Noise tends to dominate debates over airport pollution, often to the exclusion of another important topic: ground-level ozone pollution, the primary component of smog. Smog is normally associated with motor vehicles and industrial sources such as factories, power plants, and incinerators. However, air pollution totals from automobiles and many major industries have stabilized or decreased with time while aircraft continue to emit more and

more ground-level ozone precursors--volatile organic compounds (VOCs) and nitrogen oxides (NO_x)--with each passing year. For example, in 1993, airplanes at U.S. airports produced 350 million pounds of these pollutants during their landing and takeoff cycles (LTOs), more than twice their 1970 total. This total is likely to climb even higher as the aviation industry grows.

In order to better understand the relationship between aircraft emissions and local air pollution problems, NRDC calculated the amount of aircraft-generated VOCs and NO_x at nine U.S. airports. The airports selected for study were Chicago O'Hare, John F. Kennedy International, LaGuardia International, and Westchester County in New York, Newark International (NJ), Bradley International (CT), Jacksonville International (FL), El Paso International (TX), and Fairbanks International (AK).

These airports were selected because they span a wide range in terms of the types and numbers of planes they handle. The list includes not only the nation's largest international airports but also smaller, yet busy, regional airports.

Findings

The results of NRDC's air carrier emissions inventories are as follows:

AIRPORT & STATE	LANDING & TAKEOFF CYCLES (LTOs) per year^(b)	VOC (tons/yr)	NO_x (tons/yr)
Chicago O'Hare (IL)	383,362	1,428	4,650
Newark (NJ)	140,109	914	1,916
LaGuardia (NY)	135,800	677	1,476
John F. Kennedy (NY)	80,337	1,027	1,879
Bradley (CT)	36,506	128	342
El Paso (TX)	29,752	48	258
Jacksonville (FL)	19,838	42	201
Westchester (NY)	9,145	18	42

Fairbanks (AK)	7,075	15	64
<p>(a) Raw data generated using FAA software and data as well as airport-specific idle/taxi times. Actual VOC totals may be 10-15% less than reported due to fuel conservation measures voluntarily practiced by the airlines which also result in emissions reduction.</p> <p>(b) Landing and takeoff cycles (LTOs) are the basis for ground-level aircraft emissions calculations. The components of an LTO are approach and landing, taxi/idle-in, taxi/idle-out, takeoff, and climbout. LTO cycle calculations include only the emissions planes create within 3,000 feet of the earth's surface, all of which affect ground-level air quality.</p>			

- Airports are significant sources of ground-level VOC and NO_x emissions. Locally, an airport's arriving and departing planes can create as much, if not more, ground-level VOCs and NO_x as many of its largest industrial neighbors (see table below).

TABLE 2: 1993 VOC and NO_x Emissions in 3 States: Airports^(a) and Comparable Sources

STATE	POLLUTANT	EMISSIONS SOURCE	RANK IN STATE ^(b)	TONS/YR
IL	VOC	Deere & Co. (Harvester Plant)	17	1,471
IL	VOC	Chicago O'Hare Airport	--	1,428
IL	VOC	All Steel, Inc.	18	1,367
IL	NO _x	Granite Steel Company	21	4,819
IL	NO _x	Chicago O'Hare Airport	--	4,650

IL	NO _x	CPC Int'l (corn products)	22	4,439
UT	VOC	Geneva Steel	6	590
UT	VOC	Salt Lake City Int'l Airport	--	485
UT	VOC	Magnesium Corp. of America	7	438
UT	NO _x	Questar Pipeline Company	8	1,152
UT	NO _x	Salt Lake City Int'l Airport	--	955
UT	NO _x	Chevron USA Salt Lake Refinery	9	743
CT	VOC	Quality Rolling (metal painting company) ^(c)	10	129
CT	VOC	Bradley Int'l Airport	--	128
CT	VOC	Northeast Petroleum (storage facilities) ^(c)	11	112
CT	NO _x	AES Thames (power plant) ^(c)	17	370

CT	NO _x	Bradley Int'l Airport	--	342
CT	NO _x	Dexter (paper mill) ^(c)	18	290
<p>(a) Airport totals reflect ground-level emissions from air carrier flights. NRDC calculated the emissions for O'Hare and Bradley airports. The state of Utah provided the emissions data for Salt Lake City International Airport. Ground-level VOC totals from aircraft may be 10-15% less than reported due to fuel conservation measures voluntarily practiced by airlines which also result in emissions reduction.</p> <p>(b) Ranking is based on stationary source emissions inventories provided by the states of Illinois, Utah, and Connecticut.</p> <p>(c) Refers to 1994 rather than 1993 data.</p>				

- Airports are not regulated in the same manner as other significant air pollution sources. Neither airports nor airlines are held accountable for the aggregate impacts of their ground-level aircraft emissions. State and local regulators remain nearly powerless to address the problem in meaningful ways, while other major industrial sources are accordingly forced to compensate on airports' behalf as states scramble to meet mandatory emissions reductions deadlines. The number of commercial flights (which burn the most fuel and cause the most pollution per operation) meanwhile grows higher and higher each year.
- A 1993 EPA-sponsored study of toxic emissions at Chicago's Midway Airport (a much smaller airport than Chicago's O'Hare, with about 3 million enplanements per year, compared with O'Hare's 30 million) suggests that toxic air pollution from aircraft deserves more attention. The study, conducted in response to community concerns, evaluated cancer risks attributable to all air pollution sources in southwestern Chicago. It indicated that Midway's arriving and departing planes constitute a considerable source of particulate matter as well as toxic compounds such as benzene, 1,3-butadiene, and formaldehyde, releasing far more of these pollutants than other industrial pollution sources within the 16-square mile study area. In fact, few of all of Chicago's industrial sources release as much benzene or formaldehyde as Midway Airport. Nevertheless, airports are exempt from the federal law that requires other toxic sources to report their toxic emissions totals (the Toxic Release Inventory, or TRI).

Recommendations

1. **Treat airport-generated emissions in the same manner as emissions from other large sources and include them in state air pollution plans.** Although airplane emissions at airports are

comparable to those from industrial sources, they escape inclusion in State Implementation Plans (or SIPs), the EPA's principal means of achieving cleaner air in nonattainment areas. As states scramble to meet mandatory emissions reductions deadlines, other major industrial sources are forced to compensate for this omission. Allowing states to include control strategies for ground-level aircraft emissions in their SIPs would help them meet air quality goals.

2. **Minimize aircraft engine use while idling and taxiing.** VOC emissions (both toxic and non-toxic) at airports would be significantly reduced if all airlines instructed their pilots to shut down as many engines as possible during the idle and taxi period. This simple procedure would decrease emissions, as well as fuel costs. The FAA should issue an Advisory Circular on reduced-engine idling and taxiing, encouraging airlines to employ the practice as often as possible.
3. **Adopt more stringent NO_x standards.** Ground-level NO_x emissions from aircraft can be curbed by tightening engine emissions standards. The UN-affiliated International Civil Aviation Organization (ICAO) tightened NO_x standards by 20% on January 1, 1996 and is currently considering tightening the standard an additional 16%. The European Union is supporting the tighter NO_x standard. However, the new standard is unlikely to be approved without U.S. support, which has, to date, been withheld. The United States needs to join its European counterparts in actively supporting the additional tightening of this standard. Regardless of ICAO's ultimate decision, the United States should adopt the proposed standard as its own.
4. **Address toxic aircraft emissions.** EPA should carry out a nationwide investigation and risk assessment of aircraft emissions. If findings similar to its southwest Chicago study are reached elsewhere, then airports should be placed on EPA's list of major hazardous pollution sources. Whatever the outcome, airports -- just as similarly-sized toxic air pollution sources -- should be required to report their toxic emissions to the Toxic Release Inventory (TRI).
5. **Investigate differential landing fees.** Until local authorities can implement SIP control strategies for aircraft, they can address the problem of aircraft pollution indirectly. Airports can establish a revenue-neutral set of differential landing fees to encourage airlines to use their least-polluting planes.
6. **Discourage auxiliary power unit use.** Jets parked at airport gates often use generators (auxiliary power units or APUs) to power their electrical and climate control systems. Both emissions and fuel consumption could be reduced if planes shut off their APUs and relied on airport-provided power and air to the fullest extent possible. Southern California's airports are already electrifying their gates; airports in other nonattainment areas should follow their lead.
7. **Convert airport vehicle fleets and ground service equipment to alternative fuels.** Alternative-fuels programs already exist at many airports. Los Angeles International Airport (LAX), for example, operates 14 liquid natural gas (LNG) buses, and is ordering more. Boston's Logan Airport is converting its vehicles from diesel to natural gas and electric power. Centrally fueled and maintained airport-based fleets are excellent niches for alternative fuel vehicles; states and airports should create incentives for or require their conversion.
8. **Encourage mass transit.** Private vehicles at airports can produce as

much VOC and NO_x as planes. Our survey shows that the overwhelming majority of airline passengers reach the airport in their own cars. Airport emissions totals could be considerably reduced if these people left their cars at home; mass transit use to and from airports should be promoted and developed at every opportunity.

DEICING AND WATER QUALITY

The presence of snow, ice, or slush on runways or aircraft frequently causes hazardous conditions that can contribute to aircraft accidents, delays, diversions, and flight cancellations. Consequently, deicing or anti-icing (preventing the formation of ice) of aircraft and runways is a necessary part of operations at most airports in winter months. The most common method of controlling ice is through the use of chemicals, particularly ethylene- or propylene-based glycol mixtures with additives.

Most airports were built long before environmental regulations governing polluted water "runoff" were in place, and many airports lack the infrastructure to control large quantities of deicing fluids. Deicing generally takes place directly on the tarmac; deicing chemicals then enter the runoff from this procedure and flow into nearby waterways. In 1987, under Clean Water Act revisions, stormwater runoff was finally recognized under federal law as a serious water pollution problem, and the national stormwater permit system was adopted to attempt to control polluted runoff from urban areas, including industrial sites.

Findings

- Given that many, if not most, of the country's largest airports are sited along waterways, the control and disposal of deicing chemicals constitutes a significant water pollution issue. Our survey found that 45 of the 50 busiest airports in the country were within three miles of an ocean, bay, lake, wetland, reservoir, river, or stream.
- The runoff management systems that airports are required to implement under the national stormwater system is problematic, with gaps in the areas of effluent standards, enforcement, and monitoring.
- The use of deicing chemicals (particularly ethylene glycol) and other toxic substances at airports may present threats to human health, particularly to airport workers.
- In addition to ethylene glycol, numerous hazardous substances such as solvents and metals are used at aircraft maintenance facilities. However, airports are exempt from reporting under the Toxic Release Inventory.

Recommendations

1. **Aircraft deicing should be subject to a traditional effluent**

guideline permitting process. EPA could accomplish this by reinstating aircraft deicing in its Transportation Cleaning effluent guideline. Currently, aircraft deicing is covered inadequately under the more open-ended national stormwater program.

2. **Ethylene glycol and the issue of worker health and safety needs to be further addressed.** Given the toxic properties of ethylene glycol, the Occupational Safety and Health Administration (OSHA) should set appropriate exposure limits for ethylene glycol in deicing applications.
3. **Stormwater pollution prevention plans should be public documents and should be available for public review directly from every airport.** Incomplete, inadequate, or unimplemented plans should be subject to enforcement action on the same basis as other NPDES violations.
4. **Under the national stormwater program, the threshold that requires airports to monitor and sample outflows should be lowered to include smaller airports.** While larger airports that use over 100,000 gallons of deicing fluids are required to monitor their outflows, sensitive receiving waters near smaller airports are left at risk.
5. **More research should be conducted and information made available on alternatives to chemicals for deicing.** FAA should revise its Advisory Circular on Airport Winter Safety and Operations (AC 150/5200-30A) to include information on the latest, least environmentally-damaging deicing procedures that also meet safety requirements.
6. **Airports should be required to report releases of hazardous substances under the Toxic Release Inventory (TRI).** (See also [Ground-Level Air Emissions](#)). Ethylene glycol, widely used by airports, is a TRI-reportable substance, yet airports are exempt from TRI reporting.

CLIMATE CHANGE AND ENERGY EFFICIENCY

Though the primary environmental issues associated with airports are local, the aircraft themselves are responsible for global impacts. Transporting one person one mile by air requires more energy than by car, personal truck, bus, or train (at similar load factors). Though larger aircraft traveling longer distances can improve those efficiencies, it has been estimated that, currently, half of all airline flights are less than 500 miles. The emissions from aircraft engines, particularly carbon dioxide, nitrogen oxides, and water vapor, also play an increasingly significant role in global climate change and in ozone depletion. In addition, air travel is expected to grow at a faster rate over the coming decades than all other modes, further intensifying its environmental impacts.

A transportation system using airplanes with more efficient engines, supplemented by improved rail service, would likely result in less fuel use and fewer pollutants released into the environment. Newer, more efficient engines are generally quieter as well, since continuing public pressure to reduce airport noise helps prompt the redesign of engines.

Findings

- Studies show that, currently, aircraft are responsible for between 2-3% of total anthropogenic carbon dioxide (CO₂) emissions globally. This represents a modest, but increasing contribution to anthropogenic global warming effects.
- Aircraft also emit significant quantities of nitrogen oxides (NO_x). Although there are some scientific uncertainties, studies show that about 4% of anthropogenic, atmospheric NO_x may be attributed to aircraft.
- Forecasts reveal that aircraft CO₂ and NO_x emissions could be responsible for 10% of all anthropogenic global warming effects by 2050.
- In addition to requiring more energy per passenger-mile than most other forms of transportation, airplanes also emit more CO₂ per passenger-mile than most other modes of transportation, because of their high energy intensity.
- Air travel is especially inefficient over short distances. Aircraft are most efficient for truly long distance travel, because they "amortize" the tremendous energy consumption associated with high speed takeoff over a greater number of miles and passengers (larger aircraft tend to carry more passengers and offer greater range).
- Much could be done to reduce energy consumption per passenger mile in aircraft, including improving the energy efficiency of the engines, improving aerodynamics, increasing average aircraft occupancy rates, increasing average trip length, and reducing idle time.

Recommendations

1. **The United States should adopt more stringent NO_x standards.** (See [Ground-Level Air Emissions Recommendations](#)).
2. **Airlines should invest in newer, more efficient aircraft.** The federal government should provide financial incentives to airlines to accelerate acquisition of newer, safer, quieter, more efficient aircraft and provide greater disincentives for airlines to retain older, less efficient aircraft. Currently, there is an opportunity to incorporate incentives for conserving fuel in the reinstatement of funding of the Aviation Trust Fund. Revenue that was collected through a 10% domestic ticket tax could instead be collected through an aviation fuel tax, thus providing an incentive to increase airline operational efficiency and to modernize the aging commercial fleet with more efficient airframes/engines. Unless a clear message is sent to aircraft manufacturers and airlines, efficiency improvements may fall by the wayside. Financial mechanisms that would funnel a tax on fuel back into the aviation industry are necessary to ensure that aircraft efficiency improvements are accomplished.
3. **Supplement air travel with high-speed rail.** National transportation planners and the Department of Transportation should further examine proposed plans for high-speed rail "pockets" throughout the country,

such as the Boston-New York-Washington; Houston-Austin-Dallas; San Diego-Los Angeles-Sacramento; Portland-Seattle-Vancouver routes. Supplementing the aviation system with high-speed rail would greatly reduce the "short hops," for which air travel makes the least environmental sense.

4. **Improve intermodal links, so that intercity rail connects to airports.** For example, someone traveling from Paris to Philadelphia, landing in New York, should not have to get on another plane from New York to Philadelphia.



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Glossary of Terms and Acronyms

Sources for definitions include: Glossary of Environmental Terms, EPA December 1989; *Air Carrier Financial Statistics Quarterly*; *FAA Air Traffic Activity*; U.S. Department of Health & Human Services.

AAAE: American Association of Airport Executives.

ACI-NA: Airports Council International-North America.

air carriers: airlines holding a certificate issued under section 401 of the Federal Aviation Act of 1958 that operate aircraft designed to have a maximum seating capacity of more than 60 seats or a maximum payload capacity of more than 18,000 pounds or conduct international operations. There are four different types of air carriers: majors, nationals, large regionals, and medium regionals. Their annual operating revenues are, respectively, greater than \$1 billion, \$100 million to \$1 billion, \$20 million to \$100 million, and 0 to \$20 million.

air taxis: planes that (1) perform at least five round trips per week between two or more points according to flight schedules that specify the times, days of the week, and places between which such flights are performed or (2) transport mail pursuant to a current contract with the U.S. Postal Service.

ambient air: any unconfined portion of the atmosphere: open air, surrounding air.

ATA: Air Transport Association.

attainment area: an area considered to have air quality as good as or better than the national ambient air quality standards as defined in the Clean Air Act. An area may be an attainment area for one pollutant and a nonattainment area

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for others. See also **nonattainment area**.

avigation easement: an easement that stipulates that a person's property is exposed to aircraft noise, and usually provides legal protection to the airport against noise lawsuits.

biochemical oxygen demand (BOD): a measure of the amount of oxygen consumed in the biological processes that break down organic matter in water. The greater the BOD, the greater the degree of pollution. **BOD₅** (amount of oxygen consumed in five days).

calcium magnesium acetate (CMA): a solid runway deicer, a type of salt.

carbon dioxide (CO₂): a colorless, odorless, non-poisonous gas, which results from fossil fuel combustion and is also a part of the ambient air. A "greenhouse gas," carbon dioxide traps heat in the atmosphere and warms the planet.

chemical oxygen demand (COD): a measure of the oxygen required to oxidize all compounds in water, both organic and inorganic.

commercial aircraft: the sum total of air carrier and air taxi flights.

community noise equivalent level (CNEL): same as "day-night sound level" (see below), except that it includes a 5 decibel penalty during the hours of 7:00 p.m. to 10:00 p.m. in addition to the 10 decibel nighttime penalty.

commuter aircraft: smaller commercial aircraft that carry 60 or fewer passengers.

DNL (day-night sound level): a level of noise derived by measuring average sound levels in a 24-hour day, in decibels. Nighttime noise, between the hours of 10:00 p.m. and 7:00 a.m. is "weighted"; that is, given an additional 10 decibels to compensate for sleep interference and other disruptions caused by loud nighttime noise. For airport noise exposure purposes, an annual average of the daily day-night average sound levels is used. **65 dB DNL** is the noise threshold at which the FAA defines areas as "compatible" with residential use; areas at or above 65 dB DNL are designated as "incompatible" with residential use.

DEC: Department of Environmental Conservation.

decibel (dB): a unit of sound measurement. A sound doubles in loudness for every increase of ten decibels.

deicing: a procedure that removes the ice and snow from aircraft and runways that can contribute to accidents, delays, diversions, and flight cancellations. The process for deicing aircraft usually involves glycols, which are mixed with hot water and sprayed on aircraft. Runway deicing may also involve liquids, either glycol-based fluids or potassium acetate-based fluids; in addition, solids can be used, typically urea and sand.

DEQ: Department of Environmental Quality.

emission: pollution discharged into the atmosphere from smokestacks, other vents, and surface areas of commercial or industrial facilities; from residual

chimneys; and from motor vehicle, locomotive, or aircraft exhausts.

environmental impact statement (EIS): a document required of federal agencies by the National Environmental Policy Act for major projects or legislative proposals significantly affecting the environment. A tool for decision making, it describes the positive and negative effects of the undertaking and lists alternative actions.

EPA: Environmental Protection Agency.

ethylene glycol (EG): a commonly-used aircraft and runway deicer. A clear, colorless liquid that may exist in vapor form, which can cause respiratory irritation. Ingestion can cause kidney failure, and can also be fatal.

FAA: Federal Aviation Administration.

Freedom of Information Act (FOIA): a request filed under the Freedom of Information Act, 5 U.S.C. §522, or any relevant state law.

general aviation: all aviation that is not commercial or military.

landing and takeoff cycle (LTO): the basis of ground-level aircraft emissions calculations. The components of an LTO are approach, taxi/idle-in, taxi/idle-out, takeoff, and climbout. LTO cycle calculations include only the emissions planes create within 3,000 feet of the earth's surface, all of which affect ground-level air quality.

mixing-zone: the vertical column of air within which pollution is thoroughly mixed with ground-level air. The mixing-zone extends from ground-level up to approximately 3,000 feet above the earth's surface: its ceiling varies from location to location depending on local topography and weather conditions. Air pollution introduced anywhere within the mixing zone will affect ground-level air quality.

National Ambient Air Quality Standards (NAAQS): air quality standards established by EPA that apply to outside air throughout the country.

National Pollutant Discharge Elimination System (NPDES): a provision of the Clean Water Act that prohibits discharge of pollutants into waters of the United States unless a permit is issued, usually by EPA or a state (SPDES).

nitrogen oxide (NO_x): a product of combustion from transportation and stationary sources, a major contributor to acid deposition and the formation of both ground level and upper tropospheric ozone.

nonattainment area: geographic area that does not meet one or more of the National Ambient Air Quality Standards for ozone, carbon monoxide, particulates, sulfur dioxide, lead, and nitrogen dioxide.

oil/water separator: large tanks that hold fluids and allow oil to separate from water as the fluids settle.

ozone (O₃): a form of oxygen found in two layers of the atmosphere, the stratosphere and the troposphere. In the *stratosphere* (the atmospheric layer beginning seven to 10 miles above the earth's surface), ozone provides a

protective layer shielding the earth from ultraviolet radiation's harmful health effects to humans and the environment. In the *troposphere* (the layer extending up seven to 10 miles from the earth's surface), ozone is a chemical oxidant and major component of photochemical smog. Ozone can seriously affect the human respiratory system and is one of the most prevalent and widespread of all the criteria pollutants for which the Clean Air Act required EPA to set standards. Ozone in the troposphere is produced through complex chemical reactions of nitrogen oxides, hydrocarbons, and sunlight.

Part 150: A voluntary program established under the Aviation Safety and Noise Abatement Act of 1979. Part 150 allows airports to apply for federal funding to implement noise mitigation measures including residential soundproofing and acquisition of noise-sensitive land around airports. A Part 150 plan can also include recommendations for development near airports.

pH: a measure of the acidity or alkalinity of a liquid or solid material.

potassium acetate: non-toxic chemical compound used as a liquid runway deicer. Potassium acetate places a lower oxygen demand on receiving waters than does urea.

preferential runway use: taking off or landing on specified runways during certain hours to avoid residential areas.

propylene glycol (PG): used as a deicer on aircraft. Propylene glycol is less toxic than ethylene glycol, and is sometimes used in food and cosmetics for its water-absorbing properties.

runoff: precipitation that the ground does not absorb and that ultimately reaches rivers, lakes, oceans or other water bodies. Runoff can carry pollutants from the air and land into these receiving waters.

run-ups: an aircraft maintenance procedure; a "gunning" of the engine.

SIP (State Implementation Plan): EPA-approved state plans for the establishment, regulation, and enforcement of air pollution standards. States that violate federal air quality standards for carbon monoxide, nitrogen dioxide, ozone, PM₁₀ (particulate matter smaller than 10 microns), lead or sulfur dioxide must prepare SIPs.

smog: air pollution caused by chemical reactions of various pollutants emitted from different sources.

sodium formate: a solid runway deicer, a type of salt.

soot: carbon dust formed by incomplete combustion.

Stage 2 and Stage 3 aircraft: commercial jet engines currently meet either Stage 2 or Stage 3 noise standards. Stage 2 engines are older and noisier than Stage 3 engines. By the year 2000, most jet engines used in the United States will meet Stage 3 noise standards. In general, Stage 3 aircraft are 10 dB quieter than Stage 2 aircraft, which represents a halving of perceived noise. However, actual noise reduction varies by aircraft.

TRI: Toxics Release Inventory. A national database of information on toxic chemical releases and transfers.

urea: a widely-used runway deicer. Essentially a fertilizer, urea can load receiving waters with nitrogen. Urea also biodegrades to ammonia-nitrogen, which, at high levels, is toxic to aquatic life.

volatile organic compound (VOC): any organic compound that participates in atmospheric photochemical reactions except for those designated by EPA as having negligible photochemical reactivity.



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Sample Survey Questionnaire

QUESTIONNAIRE FOR AIRPORT MANAGERS

DATE

NAME

TITLE

AIRPORT (official name)

ADDRESS

PHONE NUMBER ()

FAX NUMBER ()

Please return by FRIDAY, MAY 26th 1995

Please be as detailed as possible. Where necessary, please give approximate responses. Feel free to attach any detailed explanations on separate sheets as well as any explanatory brochures, flyers, etc. that might be helpful. THANK YOU FOR YOUR TIME.

PART I: AIRPORT'S GENERAL CHARACTERISTICS

1. Is the airport being managed publicly _____ or privately? _____

2. How many commercial aircraft operations were logged at the airport in 1994?

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3. How many general aviation aircraft operations were logged at the airport in 1994?

4a. How many runways does the airport have?

b. Please specify the length of each runway:

PART II: GROUND TRANSPORTATION/LAND USE

5. Please describe the community surrounding the airport, within a 3 mile radius:

Urban	_____
Suburban	_____
Rural	_____
Industrial	_____
Commercial	_____
Agricultural	_____
Combination	_____
Other (please describe):	

6a. What is the approximate population within the 65 dB DNL (or Ldn) contour around the airport?

b. What is the approximate population within a 3 mile radius of the airport?

(OMITTED FROM DATABASE DUE TO LACK OF RESPONSE)

7. How many square miles of land does the boundaries of the airport cover?

8. Is public mass transit available to/from the airport during all hours of airport operation? Yes_____ No_____

9. What are the means of transport to and from the airport? (Please give break-downs, by approximate percentage, of each mode of transport).

Means of transport	Percentage of usage
Private car	_____
Commercial car (including taxi, limos, minivans, jitneys)	_____
Mass transit (bus, rail, subway)	_____

10. Currently, would you describe the airport's aircraft operations as "congested," meaning operating above the airport's intended capacity? Yes_____ No_____ Not known_____

- 11a. Do any of the airport's terminals, runways or gates have plans for expansion? Yes_____ No_____
- b. If yes, please briefly describe the status of each, or send accompanying description.

PART III: NOISE MITIGATION MEASURES

- 12a. Does the airport have a noise abatement office?
Yes_____ No_____
- b. If yes, please give the name and phone number of the noise abatement officer:
- c. If yes to question 12.a. above, how many noise complaints, on average, does the office receive per month?
- d. Does the noise abatement office:
- * Monitor and collect noise level data Yes_____ No_____
 - * Receive noise complaints Yes_____ No_____
 - * If yes, are the complaints recorded? Yes_____ No_____
Please describe how they are recorded:
 - * Are the noise complaints responded to? Yes_____ No_____
If yes, please describe:
- 13a. Does the airport currently have a curfew for the purpose of reducing aircraft noise at the airport? Yes_____ No_____
- b. Does the airport have any operational limits or restrictions for the purpose of reducing aircraft noise at the airport?
Yes_____ No_____
- c. If yes to either of the above, is the program mandatory _____ or voluntary? _____
- d. When was each such curfew or restriction put into effect?
- e. Please briefly describe any curfew, operational limits or restrictions in effect at your airport:
- 14a. Does the airport recommend or provide guidelines on noise abatement procedures for pilots for landings and take-offs?
Yes_____ No_____
- b. If yes, is there a written or published guide for these procedures? Yes_____ No_____ (If yes, please attach)

- 15a. Is the airport undertaking noise compatibility planning pursuant to federal aviation regulation (FAR) Part 150? Yes_____ No_____
- b. If yes, is the process completed? Yes_____ No_____
- c. What stage of the Part 150 process is the airport in?
- d. Have there been or are there currently residential "buy-outs" or relocations underway? Yes_____ No_____
- e. If yes, please describe:
- f. Please describe other noise mitigation strategies undertaken or planned pursuant to your Part 150 planning process, such as soundproofing, easements, purchase assurance programs, etc.
- 16a. If the airport has completed its Part 150 plan, has the FAA approved it? Yes_____ No_____
- b. If not, do you plan to carry out the program, regardless of FAA approval? Yes_____ No_____
- 17a. When was the most recent noise exposure map (as defined in 14 CFR Part 150) completed at your airport?
- b. Is the map updated periodically? Yes_____ No_____
- c. If yes, how often? (If possible, please attach most recent copy).
18. At present, what percentage (or how many out of the total) of commercial operations at the airport are flown by aircraft that are certified as meeting "Stage 3" noise certification levels (as defined in 14 CFR Part 36)?

PART IV: OTHER ENVIRONMENTAL ISSUES.

- 19a. In inclement weather, do aircraft deice at the airport? Yes_____ No_____
- b. If yes, what type of deicing fluid is used?
- Ethylene glycol_____ Propylene glycol_____ Both_____
- Other (please specify):
- c. Does the airport have a system to capture or reclaim the deicing fluids? Yes_____ No_____
- d. If yes, how are the fluids treated?
- e. Does the airport recycle its deicing fluid for sale off-site? Yes_____ No_____

- 20a. Does the airport have a stormwater runoff management system? Yes_____ No_____
- b. If yes, please briefly describe, or attach explanation.

21. Is the airport near (within 3 miles) any of these bodies of water?

ocean _____
bay _____
lake _____
reservoir _____
river _____
stream _____
other water body (please name) _____
none of the above _____

- 22a. Has your airport ever conducted any studies on water quality (including groundwater, surface water, or wetlands) related to the airport? Yes_____ No_____

- b. If yes, please describe. If possible, please attach a copy of the study.

- 23a. Has your airport ever conducted any studies on air quality related to the airport? Yes_____ No_____

- b. If yes, please describe. If possible, please attach a copy of the study.

(OMITTED FROM DATABASE DUE TO LACK OF RESPONSE)

24. (OPTIONAL) What do you believe would be the most valuable or important improvement at your airport? Why?

(OMITTED FROM DATABASE DUE TO LACK OF RESPONSE)

25. Would you like to receive a copy of our report when it is issued? Yes_____ No_____

THANK YOU FOR YOUR HELP!



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1995 National Airport Survey Results

Introduction

NRDC's 1995 survey database contains information on environmental issues at 74 airports. This database has been tabulated into individual airport pages, which are listed below in alphabetical order by city. The number to the right of each airport name indicates its "rank" (in terms of numbers of passengers in 1993) within the top 125 U.S. airports. We concentrated our research on the nation's 50 busiest airports, using federal, state, and airport documents -- as well as conversations with airport staff -- to supplement the survey responses. For the remainder of our sample, airports 51 through 125, we include those airports who responded to our survey.

It is important to note that environmental issues at airports are dynamic. While we strove to obtain the most up-to-date information possible, our survey data simply provides a "snapshot" of the environmental issues at airports and how airports are attempting to mitigate them.

Airport Tables

LOCATION	AIRPORT	NUMBER (RANKING)
Albany, NY	Albany County	77
Albuquerque, NM	Albuquerque International	49
Amarillo, TX	Amarillo International	112

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Atlanta, GA	<u>William B. Hartsfield International</u>	4
Austin, TX	<u>Robert Mueller Municipal</u>	56
Baltimore, MD	<u>Baltimore-Washington International</u>	31
Boston, MA	<u>Boston Logan International</u>	12
Buffalo, NY	<u>Greater Buffalo International</u>	62
Cedar Rapids, IA	<u>Cedar Rapids Municipal</u>	123
Charlotte, NC	<u>Charlotte/Douglas International</u>	22
Chicago, IL	<u>Chicago Midway</u>	45
Chicago, IL	<u>Chicago O'Hare International</u>	1
Cincinnati, OH	<u>Cincinnati/Northern Kentucky International</u>	26
Cleveland, OH	<u>Cleveland-Hopkins International</u>	34
Colorado Springs, CO	<u>City of Colorado Springs Municipal</u>	86
Costa Mesa, CA	<u>John Wayne Airport- Orange County</u>	46
Dallas, TX	<u>Dallas Love Field</u>	43
Dallas-Ft. Worth, TX	<u>Dallas/Ft. Worth International</u>	2
Denver, CO	<u>Denver International</u>	6
Detroit, MI	<u>Detroit Metropolitan Wayne County</u>	10
Ft. Lauderdale, FL	<u>Fort Lauderdale International</u>	32
Ft. Meyers, FL	<u>Southwest Florida International</u>	60
Fresno, CA	<u>Fresno Air Terminal</u>	108
Grand Canyon, AZ	<u>Grand Canyon National Park</u>	103
Honolulu, HI	<u>Honolulu International</u>	14
Houston, TX	<u>Houston Intercontinental</u>	19

Houston, TX	<u>William P. Hobby Houston</u>	37
Huntsville, AL	<u>Huntsville International</u>	109
Indianapolis, IN	<u>Indianapolis International</u>	47
Jacksonville, FL	<u>Jacksonville International</u>	65
Kansas City, MO	<u>Kansas City International</u>	38
Knoxville, TN	<u>McGhee Tyson</u>	92
Las Vegas, NV	<u>McCarran International</u>	15
Lexington, KY	<u>Blue Grass</u>	110
Los Angeles, CA	<u>Los Angeles International</u>	3
Madison, WI	<u>Dane County Regional</u>	100
Memphis, TN	<u>Memphis International</u>	39
Miami, FL	<u>Miami International</u>	7
Midland, TX	<u>Midland International</u>	101
Nashville, TN	<u>Nashville International</u>	33
New Orleans, LA	<u>New Orleans International</u>	42
New York, NY	<u>John F. Kennedy International</u>	8
New York, NY	<u>LaGuardia International</u>	18
Newark, NJ	<u>Newark International</u>	9
Oakland, CA	<u>Metropolitan Oakland International</u>	40
Oklahoma City, OK	<u>Will Rogers World</u>	63
Ontario, CA	<u>Ontario International</u>	44
Orlando, FL	<u>Orlando International</u>	16
Philadelphia, PA	<u>Philadelphia International</u>	23

Phoenix, AZ	<u>Phoenix Sky Harbor International</u>	11
Pittsburgh, PA	<u>Pittsburgh International</u>	21
Portland, OR	<u>Portland International</u>	36
Raleigh-Durham, NC	<u>Raleigh-Durham International</u>	30
Ronkonkoma, NY	<u>Long Island Mac Arthur</u>	99
Sacramento, CA	<u>Sacramento Metropolitan</u>	50
Saipan, CM	<u>Saipan International</u>	96
Salt Lake City, UT	<u>Salt Lake City International</u>	25
San Antonio, TX	<u>San Antonio International</u>	48
San Diego, CA	<u>San Diego International</u>	27
San Francisco, CA	<u>San Francisco International</u>	5
San Jose, CA	<u>San Jose International</u>	41
San Juan, PR	<u>Luis Munoz Marin International</u>	35
Sarasota, FL	<u>Sarasota/Bradenton International</u>	83
Seattle, WA	<u>Seattle-Tacoma International</u>	20
South Bend, IN	<u>Michiana Regional Transportation</u>	118
St. Louis, MO	<u>Lambert-St. Louis International</u>	17
St. Paul, MN	<u>Minneapolis - St. Paul International</u>	13
St. Thomas, VI	<u>Cyril E. King</u>	93
Tampa, FL	<u>Tampa International</u>	29
Tulsa, OK	<u>Tulsa International</u>	64
Washington, VA	<u>Washington Dulles International</u>	28
Washington, VA	<u>Washington National</u>	24

White Plains, NY	<u>Westchester County</u>	107
Windsor Locks, CT	<u>Bradley International</u>	55



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Albany County Airport

Albany, New York

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Albany County, New York
Airport Number	77
Date of Response	6/9/95
Respondent	D. Logan
Respondent's Title	none given
Address	Albany County Airport
City	Albany
State	NY
Zip Code	12211

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Phone Number	(518) 869-5314
Fax Number	(518) 452-3330
Public or Private Management	private
Commercial Operations	98,646
General Aviation Operations	50,870
Number of Runways	2
Length of Runways (Feet)	5,900; 7,200
Square Mileage of Airport	1.8
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Usage To and From Airport, by Percentage	private car 50%; commercial car 40%; mass transit 10%
Noise Office	no- Airport Operations handles noise complaints
Noise Office's Phone Number	(518) 869-0018
Noise Officer's Name	n/a
Average Noise Complaints Per Month	5
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	airport public relations officer contacts party
Curfews/Noise Guidelines	maintenance run-ups restricted between midnight and 6:00am; if run-ups are absolutely necessary during these hours, they are restricted to no longer than 5 minutes per aircraft; voluntary noise abatement flight tracks

Percentage of Stage 3 Flights	75%
Community Surrounding Airport	urban, suburban, commercial
65 dB DNL Population	50,000
Expansion Plans	plans to construct a new terminal
Part 150 Plan	pending completion; not yet submitted to the FAA
Buyouts/Other Noise Mitigation Strategies	buyouts ongoing; airport's 150 plan recommends rezoning areas within the 65 dB DNL for commercial and industrial use; airport's 150 plan also recommends soundproofing new construction within the 65 dB DNL
Most Recent Noise Exposure Map	current
Bodies of Water within Three Miles	river, stream
Deice at Airport	yes
Deicing Treatment	PG; sent to water treatment plant; reclaimed/recycled by Zenon Corp.
Deicing Fluids Recycled	yes
Stormwater Management	system in place
Water Quality Studies at Airport	testing for glycol in the streams adjacent to airport

Sources

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

Survey response from airport, 6/9/95.



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Albuquerque International Airport

Albuquerque, New Mexico

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Airport Name	Albuquerque International, New Mexico
Airport Number	49
Date of Response	6/28/95
Respondent	Maggie Santiago
Respondent's Title	Public Affairs Officer
Address	A.I.A., P.O. Box 9022
City	Albuquerque
State	NM
Zip Code	87119

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Phone Number	(505) 842-4366
Fax Number	(505) 842-4278
Public or Private Management	public
Commercial Operations	110,911
General Aviation Operations	68,482
Number of Runways	4
Length of Runways (Feet)	9,000; 13,775; 5,130; 10,000
Square Mileage of Airport	3.04
Mass Transit Available During All Hours of Airport Operation	no
Transportation Usage To and From Airport, by Percentage	approximately 80% private car
Noise Office	no- Public Affairs Office handles noise complaints
Noise Office's Phone Number	(505) 842-4366
Noise Officer's Name	n/a
Average Noise Complaints Per Month	5, never more than 10
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded in a computer file
Response Received	answered on spot if possible; if not, investigation is made and complainant is called back
Curfews/Noise Guidelines	voluntary use of preferential flight paths
Percentage of Stage 3 Flights	75%

Community Surrounding Airport	urban, open space
65 dB DNL Population	2,329
Expansion Plans	small scale expansion to terminal; airfield improvements to avoid future congestion; runway extension planned for use in 1996
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	no buyouts or other strategies
Most Recent Noise Exposure Map	1992
Bodies of Water within Three Miles	river
Deice at Airport	yes
Deicing Treatment	EG and PG; no capture now, but plans for it in future
Deicing Fluids Recycled	no
Stormwater Management	stormwater plan on file with the city
Water Quality Studies at Airport	none

Sources

FAA 5010 Database.

Phone interviews with Maggie Santiago, Public Affairs Officer, 6/28/95 and 7/26/95.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Amarillo International Airport

Amarillo, Texas

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Amarillo International, Texas
Airport Number	112
Date of Response	5/1/95
Respondent	Richard McCollum
Respondent's Title	Airport Manager
Address	10801 Airport Boulevard
City	Amarillo
State	TX
Zip Code	79111

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Phone Number	(806) 335-1671
Fax Number	(806) 335-1672
Public or Private Management	public
Commercial Operations	20,200
General Aviation Operations	28,400
Number of Runways	2
Length of Runways (Feet)	13,502; 7,901
Square Mileage of Airport	5.5
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Usage To and From Airport, by Percentage	private car 97%; commercial car 3%
Noise Office	yes
Noise Office's Phone Number	(806) 335-1671
Noise Officer's Name	Richard McConnell
Average Noise Complaints Per Month	2 per year
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: letters filed
Response Received	written response
Curfews/Noise Guidelines	none
Percentage of Stage 3 Flights	80%
Community Surrounding Airport	industrial, commercial, agricultural, rural

65 dB DNL Population	20
Expansion Plans	none
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	land use zoning for compatibility
Most Recent Noise Exposure Map	1989
Bodies of Water within Three Miles	Playa Lake (usually dry)
Deice at Airport	yes
Deicing Treatment	EG and PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	none
Water Quality Studies at Airport	monitoring of water wells near fuel facilities

Sources

Survey response from airport, 5/1/95.



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William B. Hartsfield International Airport

Atlanta, Georgia

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	William B. Hartsfield International, Georgia
Airport Number	4
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	Atlanta Hartsfield International Airport
City	Atlanta
State	GA
Zip Code	30320

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Phone Number	(404) 530-6600
Fax Number	(404) 530-6803
Public or Private Management	public
Commercial Operations	630,638
General Aviation Operations	23,675
Number of Runways	4
Length of Runways (Feet)	9,000; 10,000; 11,889; 9,000
Square Mileage of Airport	5.9
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Usage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(404) 991-9664
Noise Officer's Name	Angeline Cobb
Average Noise Complaints Per Month	250
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	90% answered on phone; 10% FAA and airline informed, investigation done, written response sent
Curfews/Noise Guidelines	headings and turns suggested to minimize noise
Percentage of Stage 3 Flights	unknown

Community Surrounding Airport	NR
65 dB DNL Population	81,621
Expansion Plans	new runway planned for use in 1999
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	as of 8/95, 2,000 homes within the 75+ dB DNL had been purchased and 12,000 residences within the 65-75 dB DBL had been soundproofed; there currently are plans to soundproof schools and churches
Most Recent Noise Exposure Map	1993
Bodies of Water within Three Miles	river
Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Phone interviews with Angeline Cobb, Noise Abatement Officer, 6/28/95; 7/18/95; 8/7/95.

Rand McNally Road Atlas: 66th Edition, 1990.

Survey of Top 20 U.S. Airport Noise Abatement Measures. Noise Compatibility Planning and Programming, Dallas/Fort-Worth International Airport, Comments on Draft EIS for Proposed Expansion of DFW International Airport, Appendix 47, August 1989.

U.S. Department of Transportation, Federal Aviation Administration, 1994

Aviation Capacity Enhancement Plan, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Robert Mueller Municipal Airport

Austin, Texas

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Robert Mueller Municipal, Texas
Airport Number	56
Date of Response	5/22/95
Respondent	Charles W. Gates
Respondent's Title	Director of Aviation
Address	3600 Manor Rd.
City	Austin
State	TX

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Zip Code	78723
Phone Number	(512) 472-5439
Fax Number	(512) 469-0415
Public or Private Management	public
Commercial Operations	100,504
General Aviation Operations	92,410
Number of Runways	3
Length of Runways (Feet)	7,269; 3,999; 5,006
Square Mileage of Airport	1.2
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 80%; commercial car 15%; mass transit 5%
Noise Office	Airport Operations handles noise complaints
Noise Office's Phone Number	(512) 495-7550
Noise Officer's Name	n/a

Average Noise Complaints Per Month	3
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	investigation carried out; complainant notified of actions taken
Curfews/Noise Guidelines	voluntary curfew on all air carrier operations between 12:01am and 6:00am implemented in July 1994; special approach and departure routes; no jet training; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	40%
Community Surrounding Airport	urban, industrial, commercial
65 dB DNL Population	30,000
Expansion Plans	none
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	1990
Bodies of Water within Three Miles	stream

Deice at Airport	yes
Deicing Treatment	EG and PG
Deicing Fluids Recycled	unanswered
Stormwater Management	none
Water Quality Studies at Airport	monitoring done by City of Austin Environmental Conservation Services Department

Sources

Survey response from airport, 5/22/95.



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Baltimore-Washington International Airport

Baltimore, Maryland

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Baltimore-Washington International, Maryland
Airport Number	31
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	P.O. Box 8766
City	Baltimore
State	MD

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Zip Code	21240
Phone Number	(410) 859-7022
Fax Number	(410) 850-4729
Public or Private Management	public
Commercial Operations	210,283
General Aviation Operations	47,839
Number of Runways	4
Length of Runways (Feet)	6,005; 10,502; 5,000; 9,519
Square Mileage of Airport	4.9
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(410) 859-7021
Noise Officer's Name	Rudy Rudolf

Average Noise Complaints Per Month	approximately 90
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded by staff during business hours, by machine during non-business hours
Response Received	staff investigates complaint and follows up with response if requested
Curfews/Noise Guidelines	preferential runway use; voluntary rescheduling of flights; louder planes restricted from more sensitive flight paths
Percentage of Stage 3 Flights	50%
Community Surrounding Airport	suburban, industrial, commercial, open space
65 dB DNL Population	5,800
Expansion Plans	runway extension planned for use in 2003
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	Airport Noise Zone (ANZ) established to ensure compatible land development in areas affected by airport noise; as of 1/94, 4 schools had been soundproofed, 335 properties in the 75+ dB DNL were eligible for outright purchase by the airport, and 902 other homeowners in the 70-75 dB DNL could choose between soundproofing or money to help pay for relocation; real estate transactions within the ANZ require noise disclosure notification
Most Recent Noise Exposure Map	1991

Bodies of Water within Three Miles	ponds, several creeks, streams, wetlands
Deice at Airport	yes
Deicing Treatment	EG and PG; captured, disposed via the Baltimore County sewer system with treatment at wastewater treatment plant; some is recycled
Deicing Fluids Recycled	yes
Stormwater Management	full NPDES permits, retention basins, oil/water separators
Water Quality Studies at Airport	studies on file with Maryland Department of Aviation and Maryland Department of Environment

Sources

Aircraft Deicing Plan, BWI Airport, prepared by the Maryland Aviation Administration and the Maryland Department of Energy, November 1993.

Baltimore/Washington International Airport Noise Abatement Plan and Airport Noise Zone, Maryland Aviation Administration, Maryland DOT, January 1994.

FAA 5010 Database.

Final EIS for Baltimore-Washington International Airport, prepared by U.S. Dept. of Transportation, Federal Aviation Administration and Maryland Dept. of Transportation, State Aviation Administration, January 1989.

Phone interview with Barbara Grey, Manager of Environmental Services, Baltimore-Washington Airport, 1/5/96.

Phone interview with R.H. Rudolph Jr., Director of Aviation Noise and Abatement, Baltimore-Washington Airport, 8/31/95.

Record of Approval of Part 150, Baltimore-Washington International Airport, 6/21/90.

Siegel, Andrea F., "BWI Plans to Reduce the Pollution Caused from Runoff from Plane Deicing," *The Baltimore Sun*, 1/7/94.

U.S. Department of Transportation, Federal Aviation Administration, 1994

Aviation Capacity Enhancement Plan, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Boston Logan International Airport

Boston, Massachusetts

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Boston Logan International, Massachusetts
Airport Number	12
Date of Response	6/2/95
Respondent	Thomas J. Kinton, Jr.
Respondent's Title	Director of Aviation
Address	600 Control Tower
City	East Boston
State	MA

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Zip Code	02128
Phone Number	(617) 561-1600
Fax Number	(617) 561-1609
Public or Private Management	authority
Commercial Operations	445,945
General Aviation Operations	24,373
Number of Runways	5
Length of Runways (Feet)	10,005; 2,557; 7,860; 7,000; 10,081
Square Mileage of Airport	3.75
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 40-41%; commercial car 54.1%, mass transit 5-8%
Noise Office	yes
Noise Office's Phone Number	(617) 561-1636
Noise Officer's Name	Emilio Faverito

Average Noise Complaints Per Month	275
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	written response
Curfews/Noise Guidelines	curfew put into effect in 1990: no Stage 2 planes can operate between 11:00pm and 7:00am; also, carriers with more than 3 round trips per day must meet a Stage 3 fleet mix requirement; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	69.4%
Community Surrounding Airport	urban, commercial
65 dB DNL Population	11,333
Expansion Plans	terminal E to add gates, maybe terminal A as well: however, survey response says that "there will be no net increase in the number of gates"
Part 150 Plan	not participating: Massport established its noise rules independently
Buyouts/Other Noise Mitigation Strategies	relocation of 169 families living along Neptune Road in East Boston; Massport has also either developed or moved an additional 44 housing units as part of its Neptune Road relocation efforts; soundproofing of schools and homes-- approximately 2,000 homes have been soundproofed
Most Recent Noise Exposure Map	1993

Bodies of Water within Three Miles	surrounded by Boston Harbor
Deice at Airport	yes
Deicing Treatment	EG; no treatment or capture
Deicing Fluids Recycled	no
Stormwater Management	filed permit for stormwater discharges; stormwater sent through separators and skimmers
Water Quality Studies at Airport	extensive groundwater studies; periodic testing of discharges

Sources

Phone interview with Ed Incerto, Manager of Design and Construction, Residential Sound Insulation Program, 5/2/96.

Survey response from airport, 6/2/95.



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Greater Buffalo International Airport

Buffalo, New York

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Greater Buffalo International, New York
Airport Number	62
Date of Response	5/10/95
Respondent	Robert A. Stone
Respondent's Title	Airport Manager
Address	Genesee St.
City	Buffalo
State	NY

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Zip Code	14225
Phone Number	(716) 632-3115
Fax Number	(716) 632-3926
Public or Private Management	public
Commercial Operations	69,971
General Aviation Operations	51,668
Number of Runways	2
Length of Runways (Feet)	8,102, 5,376
Square Mileage of Airport	1.5
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 70%; commercial car 29%; mass transit 1%
Noise Office	yes
Noise Office's Phone Number	(716) 632-3115
Noise Officer's Name	Linda A. Francis

Average Noise Complaints Per Month	5-6
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	investigation with FAA Buffalo Tower; subsequent communication with complainant
Curfews/Noise Guidelines	no engine run-ups allowed between 11:00pm and 6:00am; requested arrival and departure procedures
Percentage of Stage 3 Flights	90%
Community Surrounding Airport	suburban, industrial, commercial
65 dB DNL Population	not available
Expansion Plans	new terminal facility, circulatory roadway and parking garage
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	1982
Bodies of Water within Three Miles	river, stream

Deice at Airport	yes
Deicing Treatment	EG and PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	operates under New York State permit system
Water Quality Studies at Airport	water quality monitored monthly under New York State permit system

Sources

Survey response from airport, 5/10/95.



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Cedar Rapids Municipal Airport

Cedar Rapids, Iowa

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Airport Name	Cedar Rapids Municipal, Iowa
Airport Number	123
Date of Response	5/3/95
Respondent	Lawrence K. Mullendore
Respondent's Title	Airport Director
Address	2515 Wright Brothers Blvd, SW
City	Cedar Rapids
State	IA

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Zip Code	52404
Phone Number	(319) 362-3131
Fax Number	(319) 362-1670
Public or Private Management	public
Commercial Operations	33,777
General Aviation Operations	29,824
Number of Runways	2
Length of Runways (Feet)	8,600; 5,450
Square Mileage of Airport	4.8
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 95%; commercial car 5%
Noise Office	no
Noise Office's Phone Number	n/a
Noise Officer's Name	n/a

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	n/a
Noise Complaints Recorded	n/a
Response Received	unanswered
Curfews/Noise Guidelines	none
Percentage of Stage 3 Flights	not available
Community Surrounding Airport	rural
65 dB DNL Population	100
Expansion Plans	runway extension, expansion of terminal complex
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	1994
Bodies of Water within Three Miles	none

Deice at Airport	yes
Deicing Treatment	EG, PG, potassium-acetate; no capture
Deicing Fluids Recycled	no
Stormwater Management	AAAE group permit
Water Quality Studies at Airport	none

Sources

Survey response from airport, 5/3/95.



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Charlotte/Douglas International Airport

Charlotte, North Carolina

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Airport Name	Charlotte/Douglas International, North Carolina
Airport Number	22
Date of Response	5/11/95
Respondent	T.J. Orr
Respondent's Title	Aviation Director
Address	P.O. Box 19066
City	Charlotte
State	NC

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Zip Code	28219
Phone Number	(704) 359-4000
Fax Number	(704) 359-4030
Public or Private Management	public
Commercial Operations	376,312
General Aviation Operations	65,057
Number of Runways	3
Length of Runways (Feet)	10,000; 8,845; 7,500
Square Mileage of Airport	9
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 73%; commercial car 25%; mass transit 2%
Noise Office	yes
Noise Office's Phone Number	(704) 359-4008
Noise Officer's Name	Bob Andress

Average Noise Complaints Per Month	60
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: standard form is filled out
Response Received	copy of each noise complaint is mailed to complainant
Curfews/Noise Guidelines	jet and turbo-prop flights voluntarily restricted to runway 5/23 between 11:00pm and 7:00am daily
Percentage of Stage 3 Flights	55%
Community Surrounding Airport	urban, rural, industrial
65 dB DNL Population	3,600
Expansion Plans	additional runways and taxiways, 5 gate expansions; new runways planned for use in 1999
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	now purchasing homes within the 75 dB DNL area; soundproofing homes within 70-75 dB DNL area
Most Recent Noise Exposure Map	1989
Bodies of Water within Three Miles	river

Deice at Airport	yes
Deicing Treatment	EG and PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	in the process of developing a stormwater pollution prevention plan
Water Quality Studies at Airport	groundwater sampling in relation to the underground storage tanks; 100 underground storage tanks were removed and the area tested afterwards

Sources

Phone interview with T.J. Orr, Aviation Director, Charlotte/Douglas International Airport, 7/17/95.

Survey response from airport, 5/11/95.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Chicago Midway Airport

Chicago, Illinois

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Airport Name	Chicago Midway, Illinois
Airport Number	45
Date of Response	6/1/95
Respondent	Chicago Midway Airport
Respondent's Title	General Manager
Address	5700 S. Cicero
City	Chicago
State	IL

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Zip Code	60638
Phone Number	(312) 284-5294
Fax Number	(312) 284-5290
Public or Private Management	public
Commercial Operations	196,124
General Aviation Operations	72,075
Number of Runways	5
Length of Runways (Feet)	6,521; 6,446; 5,509; 5,141; 3,850
Square Mileage of Airport	1
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	not available
Noise Office	yes
Noise Office's Phone Number	(312) 686-2377
Noise Officer's Name	Kay Marrin

Average Noise Complaints Per Month	49
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: O'Hare/Midway receive complaints at one location; complaints entered into database
Response Received	yes
Curfews/Noise Guidelines	no maintenance run-ups for Stage 2 aircraft between 10:00pm and 7:00am Monday-Friday, 10:00pm and 9:00am Saturday and Sunday; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	67%
Community Surrounding Airport	urban, suburban, commercial
65 dB DNL Population	79,960
Expansion Plans	new terminal in design stages; rehabilitation of runways 31R and 22R
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	future plans for soundproofing, easements, and real-estate purchases
Most Recent Noise Exposure Map	1993

Bodies of Water within Three Miles	none
Deice at Airport	yes
Deicing Treatment	EG and PG; sewage treatment plant
Deicing Fluids Recycled	no
Stormwater Management	stormwater held in a concrete, 7.5 million gallon retention pond; airport regulates its release into the Metropolitan Sewer System, thus preventing the system from being overloaded
Water Quality Studies at Airport	studies conducted by airport on poor drainage areas

Sources

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

Phone interview with Robert Kichure, Assistant Program Director, Noise Abatement Office, Midway International Airport, 7/17/95.

Phone interview with Al Perez, General Manager of Operations, 7/14/95.

Survey response from airport, 6/1/95.



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Chicago O'Hare International Airport

Chicago, Illinois

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Airport Name	Chicago O'Hare International, Illinois
Airport Number	1
Date of Response	6/1/95
Respondent	James Considine
Respondent's Title	Environmental Coordinator
Address	P.O. Box 66142
City	Chicago
State	IL

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Zip Code	60666
Phone Number	(312) 686-3485
Fax Number	(312) 686-6636
Public or Private Management	public
Commercial Operations	806,776
General Aviation Operations	17,192
Number of Runways	7
Length of Runways (Feet)	13,000; 10,000; 7,966; 10,141; 7,500;8,071; 5,341
Square Mileage of Airport	10.9
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 54.7%; commercial car 32.9%; mass transit 8.4%
Noise Office	yes
Noise Office's Phone Number	(312) 686-6724
Noise Officer's Name	position is vacant

Average Noise Complaints Per Month	367
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	personal call or written response
Curfews/Noise Guidelines	preferential runway use; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	73%
Community Surrounding Airport	suburban, rural
65 dB DNL Population	93,860
Expansion Plans	none
Part 150 Plan	completed in 1995, but never submitted to FAA due to community opposition
Buyouts/Other Noise Mitigation Strategies	school soundproofing program: 36 schools already soundproofed or currently being soundproofed
Most Recent Noise Exposure Map	1993
Bodies of Water within Three Miles	river, stream

Deice at Airport	yes
Deicing Treatment	EG and PG; captured and treated at publicly owned plant
Deicing Fluids Recycled	no
Stormwater Management	some of runway deicing fluids flow into surrounding creeks; the management plan is to reroute the storm sewers and treat the glycol-laden stormwater
Water Quality Studies at Airport	ongoing monitoring at surrounding streams for levels of BOD5, fats/oils/grease, pH, suspended solids, total dissolved solids, and ammonia nitrate; all wetlands have been delineated

Sources

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

Phone interview with James Considine, Environmental Coordinator, 7/17/95.

Phone interview with Robert Kichure, Assistant Program Director, Noise Abatement Office, Chicago O'Hare International Airport, 7/17/95.

Survey response by airport, 6/1/95.



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Cincinnati/Northern Kentucky International Airport

Cincinnati, Ohio

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Airport Name	Cincinnati/Northern Kentucky International, Kentucky
Airport Number	26
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	P.O. Box 75200
City	Cincinnati

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State	OK
Zip Code	45275
Phone Number	(606) 767-3151
Fax Number	(606) 767-7888
Public or Private Management	public
Commercial Operations	292,600
General Aviation Operations	13,026
Number of Runways	3
Length of Runways (Feet)	10,000; 10,000; 9,501
Square Mileage of Airport	8.8
Mass Transit Available During All Hours of Airport Operation	no
Transportation Usage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(606) 767-7800
Noise Officer's Name	Barbara Schempf

Average Noise Complaints Per Month	262
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	yes
Curfews/Noise Guidelines	recommended landing/takeoff procedures; preferential runway use for day & night
Percentage of Stage 3 Flights	67%
Community Surrounding Airport	suburban, industrial, commercial
65 dB DNL Population	3,774
Expansion Plans	runway extension planned for use in 1997
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	as of 8/95: 52 homes bought and demolished under a purchase assurance program; 34 homes within the 75+ dB DNL acquired or in the process of being acquired; 145 homes in the 65+ dB DNL to the west of the airport acquired and demolished; one nursing home and one school soundproofed; 500 homes near the airport became eligible for soundproofing in April of 1996-- the soundproofing is scheduled to begin in September or October of 1996
Most Recent Noise Exposure Map	1993

Bodies of Water within Three Miles	river
Deice at Airport	yes
Deicing Treatment	use of potassium-acetate; collected and sent to sanitation district for treatment
Deicing Fluids Recycled	no
Stormwater Management	2 NPDES permits; applying for group NPDES
Water Quality Studies at Airport	NR

Sources

Aircraft Report Line: Monthly Reports for July 1995, published by Cincinnati-Northern Kentucky Airport.

FAA 5010 Database.

FAA Finding of No Significant Impact Study for Proposed Noise Compatibility Actions at Cincinnati/Northern Kentucky International Airport, prepared by Landrum & Brown, KEMRON Environmental Services, Vivian Llambi & Associates, Jo Haltermon, Design, 5/1/95.

Federal Aviation Administration, Office of Environment and Energy, *FAR Part 150 Airport Noise Compatibility Planning Program: Status of Maps and Programs*, through Fiscal Year 1995.

Phone call to Transit Authority of Northern Kentucky, 7/14/95.

Phone interviews with Barbara Schempf, Noise Abatement Coordinator, Cincinnati/Northern Kentucky International Airport, 8/1/95 and 5/2/96.

Record of Approval of Part 150, Cincinnati/ Northern Kentucky International Airport, 10/25/93.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air*

Traffic Activity, Washington DC, Fiscal Year 1993.



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Cleveland-Hopkins International Airport

Cleveland, Ohio

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Cleveland-Hopkins International, Ohio
Airport Number	34
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	5300 Riverside Drive
City	Cleveland
State	OH

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Zip Code	44135
Phone Number	(216) 265-6000
Fax Number	(216) 265-2021
Public or Private Management	public
Commercial Operations	212,660
General Aviation Operations	31,318
Number of Runways	6
Length of Runways (Feet)	7,096; 8,999; 6,015; 6,410; 1,672; 2,031
Square Mileage of Airport	2.9
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	NR
Noise Office's Phone Number	NR
Noise Officer's Name	NR

Average Noise Complaints Per Month	NR
Airport Gathers Noise Data	NR
Airport Takes Noise Complaints	NR
Noise Complaints Recorded	NR
Response Received	NR
Curfews/Noise Guidelines	preferential flight paths; pilots encouraged to use noise abatement departure procedures
Percentage of Stage 3 Flights	NR
Community Surrounding Airport	urban, suburban, industrial, commercial, agricultural
65 dB DNL Population	NR
Expansion Plans	NR
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	as of 1987: the airport had bought 263 homes and had plans to buy 178 more, planned to soundproof up to seven schools and 2,150 homes, and recommended that communities within the 65 dB DNL adopt compatible zoning measures
Most Recent Noise Exposure Map	NR
Bodies of Water within Three Miles	Rocky River

Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Phone interview with Robin Thomas, County Zoning Board, 7/17/95.

Rand McNally Road Atlas: 66th Edition, 1990.

Record of Approval of Part 150, Cleveland- Hopkins International Airport, 8/18/87.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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City of Colorado Springs Municipal Airport

Colorado Springs, Colorado

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	City of Colorado Springs Municipal, Colorado
Airport Number	86
Date of Response	5/22/95
Respondent	Gary K. Campbell
Respondent's Title	Supervisor of Airport Operations
Address	7770 Drennan Road
City	Colorado Springs
State	CO

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Zip Code	80916
Phone Number	(719) 550-1936
Fax Number	(719) 550-1937
Public or Private Management	public
Commercial Operations	34,079
General Aviation Operations	61,497
Number of Runways	3
Length of Runways (Feet)	11,021; 13,500; 8,268
Square Mileage of Airport	11.15
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 89%; commercial car 11%; mass transit .05%
Noise Office	yes
Noise Office's Phone Number	(719) 550-1936
Noise Officer's Name	Airport Operations

Average Noise Complaints Per Month	2
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	yes
Curfews/Noise Guidelines	jet training prohibited between 11:00pm and 6:00am
Percentage of Stage 3 Flights	unanswered
Community Surrounding Airport	urban, suburban, rural, commercial, industrial, agricultural
65 dB DNL Population	594
Expansion Plans	new terminal concourse within 2 years
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	buyout plans for 3 houses remaining; 2 are under contract, the other house may be condemned
Most Recent Noise Exposure Map	1993
Bodies of Water within Three Miles	stream

Deice at Airport	yes
Deicing Treatment	EG and PG; allowed to evaporate; fluids can eventually be pumped or recycled, but volume is not yet significant enough
Deicing Fluids Recycled	no
Stormwater Management	system in place
Water Quality Studies at Airport	none

Sources

Survey response from airport, 5/22/95.



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John Wayne Airport- Orange County Airport

Costa Mesa, California

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	John Wayne Airport- Orange County, California
Airport Number	46
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	3151 Airway Ave., Suite K101
City	Costa Mesa

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State	CA
Zip Code	92626
Phone Number	(714) 252-5183
Fax Number	(714) 252-5178
Public or Private Management	public
Commercial Operations	99,481
General Aviation Operations	393,897
Number of Runways	2
Length of Runways (Feet)	5,700; 2,887
Square Mileage of Airport	0.78
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Usage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(714) 252-5043
Noise Officer's Name	John Leyerle

Average Noise Complaints Per Month	NR
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	NR
Response Received	NR
Curfews/Noise Guidelines	mandatory curfew on all jet aircraft operations between 11:00pm and 7:00am since 1976; Stage 3 only since 1985 - a voluntary action on the part of carriers to comply with maximum noise limits; preferential flight patterns and runway use programs
Percentage of Stage 3 Flights	100%
Community Surrounding Airport	suburban, commercial
65 dB DNL Population	NR
Expansion Plans	plans to add 2 levels to a parking structure
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	1993 Draft EIS proposed soundproofing 222 single and multi-family units and 287 condominiums and apartment units in return for aviation easements
Most Recent Noise Exposure Map	NR
Bodies of Water within Three Miles	Upper Newport Bay, San Diego Creek, marshland

Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Phone interview with airport, September, 1995.

"Recommended Acoustical Insulation & Residential Purchase Mitigation Programs" within *Draft EIS Report #546*, prepared by County of Orange, Environmental Management Agency, May 1993.

Revised Draft Environmental Impact Report 508 & Draft EIS for John Wayne Airport Master Plan and Santa Ana Heights Land Use Compatibility Program, vols. I & II, prepared for County of Orange, CA and FAA by CH2M Hill, 11/12/84.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Dallas Love Field Airport

Dallas, Texas

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Dallas-Love Field, Texas
Airport Number	43
Date of Response	6/6/95
Respondent	Danny L. Bruce
Respondent's Title	Director of Aviation
Address	16 Love Field Building
City	Dallas
State	TX

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Zip Code	75235
Phone Number	(214) 670-6077
Fax Number	(214) 670-6051
Public or Private Management	public
Commercial Operations	126,295
General Aviation Operations	87,331
Number of Runways	3
Length of Runways (Feet)	6,149; 7,753; 8,800
Square Mileage of Airport	2
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 80%; commercial car 15%; mass transit 5%
Noise Office	yes
Noise Office's Phone Number	(214) 670-6157
Noise Officer's Name	Terry L. Mitchell

Average Noise Complaints Per Month	30
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded on a standard form
Response Received	each complaint is investigated
Curfews/Noise Guidelines	midnight to 6:00am curfew on engine maintenance run-ups; preferential runway use between 9:00pm and 6:00am; special noise abatement departure procedure when traffic is in a southerly flow
Percentage of Stage 3 Flights	65%
Community Surrounding Airport	urban, commercial, industrial
65 dB DNL Population	20,550
Expansion Plans	none
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	soundproofing 4 public schools in 65 dB DNL contour
Most Recent Noise Exposure Map	1992
Bodies of Water within Three Miles	lake

Deice at Airport	yes
Deicing Treatment	PG; captured for disposal if fluids collect; deicing done 3 days per year on average
Deicing Fluids Recycled	no
Stormwater Management	airport has EPA Industrial General Stormwater Permit; stormwater pollution prevention plan has also been developed
Water Quality Studies at Airport	annual sampling on outfall exposed to deicing

Sources

Survey response from airport, 6/6/95.



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Dallas/Ft. Worth International Airport

Dallas-Ft. Worth, Texas

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Dallas-Ft. Worth International, Texas
Airport Number	2
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	P.O. Drawer 619428
City	Dallas-Ft. Worth
State	TX

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Zip Code	75261
Phone Number	(214) 574-8888
Fax Number	(214) 574-5509
Public or Private Management	public
Commercial Operations	774,232
General Aviation Operations	13,918
Number of Runways	6
Length of Runways (Feet)	9,000; 9,300; 11,388; 13,400; 11,387; 11,388
Square Mileage of Airport	28.1
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(214) 574-8138
Noise Officer's Name	Karen Robertson

Average Noise Complaints Per Month	42
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes, airport has a 24 hour manned hotline
Response Received	responded to upon request
Curfews/Noise Guidelines	preferential runway use; noise abatement flight tracks
Percentage of Stage 3 Flights	83%
Community Surrounding Airport	suburban
65 dB DNL Population	15,654
Expansion Plans	2 new runways and 2 runway extensions; estimated completion dates for new runways are 1996 and 2001; extensions planned for completion in 1997
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	purchases in area exposed to 70+ dB DNL; soundproofing of schools, apartments, churches; voluntary acquisition
Most Recent Noise Exposure Map	NR
Bodies of Water within Three Miles	Grapevine Lake, North Lake, river

Deice at Airport	yes
Deicing Treatment	EG; held in detention ponds and slowly discharged to a pretreatment plant
Deicing Fluids Recycled	NR
Stormwater Management	collected by storm sewer system and discharged into Hackberry Creek; water-level float tanks divert contaminants to an industrial waste collection system
Water Quality Studies at Airport	NR

Sources

Department of Transportation, Federal Aviation Administration, *Dallas/Ft. Worth International Airport D/FW 2010 Environmental Impact Statement: Final Report Summary*, 1991.

FAA 5010 Database.

Phone interview with Karen Robertson, Manager, Noise Compatibility Office, 5/14/96.

Rand McNally Road Atlas: 66th Edition, 1990.

Survey of Top 20 U.S. Airport Noise Abatement Measures. Noise Compatibility Planning and Programming, Dallas/Fort-Worth International Airport, Comments on Draft EIS for Proposed Expansion of DFW International Airport, Appendix 47, August 1989.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Denver International Airport

Denver, Colorado

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Denver International, Colorado
Airport Number	6
Date of Response	6/29/95
Respondent	Chuck Cannon
Respondent's Title	Manager of Public Affairs
Address	8500 Pena Blvd.
City	Denver
State	CO

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Zip Code	80249
Phone Number	(303) 342-2250
Fax Number	(303) 342-2266
Public or Private Management	public
Commercial Operations	530,839 total operations
General Aviation Operations	n/a
Number of Runways	5
Length of Runways (Feet)	all 5 runways are 12,000 feet long
Square Mileage of Airport	53
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 80%; commercial car 18%; mass transit 2%
Noise Office	yes
Noise Office's Phone Number	(303) 342-2200
Noise Officer's Name	position is vacant

Average Noise Complaints Per Month	2,500
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: recorded on noise hotline; entered into noise and operations monitoring system
Response Received	only if requested
Curfews/Noise Guidelines	mandatory restriction of Stage 2 flights on runway 2; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	65%
Community Surrounding Airport	rural, agricultural
65 dB DNL Population	150
Expansion Plans	none
Part 150 Plan	will conduct Part 150 within 5 years
Buyouts/Other Noise Mitigation Strategies	buyout of 50 homes within 65 dB DNL contour
Most Recent Noise Exposure Map	daily
Bodies of Water within Three Miles	stream

Deice at Airport	yes
Deicing Treatment	EG and PG; each concourse area receives deicing drainage, which is channeled to a recycling plant for processing; the recycled fluids are sold
Deicing Fluids Recycled	yes
Stormwater Management	holding ponds catch water, which is then sent to a municipal wastewater treatment plant; some monitored flows drain into local creeks
Water Quality Studies at Airport	permits require data-gathering

Sources

Survey response from airport, 6/29/95.



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Detroit Metropolitan Wayne County Airport

Detroit, Michigan

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Airport Name	Detroit Metropolitan Wayne County, Michigan
Airport Number	10
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	L. C. Smith Terminal-Mezzanine
City	Detroit
State	MI

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Zip Code	48242
Phone Number	(313) 942-3550
Fax Number	(313) 942-3765
Public or Private Management	public
Commercial Operations	394,841
General Aviation Operations	63,011
Number of Runways	5
Length of Runways (Feet)	8,500; 12,000; 10,000; 8,700; 8,500
Square Mileage of Airport	7.8
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(313) 942-3792
Noise Officer's Name	Sean Brosnan

Average Noise Complaints Per Month	339
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded on a 24-hour, computerized noise hotline
Response Received	yes
Curfews/Noise Guidelines	since 1992, engine run-ups are mandatorily restricted to specific runways between 7:00pm and 7:00am; voluntary preferential flight paths and runway use; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	52%
Community Surrounding Airport	urban, suburban, industrial, commercial, agricultural
65 dB DNL Population	10,420
Expansion Plans	new runway planned for use in 1998
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	airport has acquired over 300 acres of land in the 70+ dB DNL area and is providing purchase assurances or sound insulation in return for avigation easement in the 65-70 dB DNL: 75 homes have been soundproofed this year; 6 schools within the 65+ dB DNL have been soundproofed; airport has proposed compatible zoning in the surrounding areas: the measures are close to being adopted in one adjacent town
Most Recent Noise Exposure Map	1992

Bodies of Water within Three Miles	river, wetlands
Deice at Airport	yes
Deicing Treatment	EG: flows into 2 storage ponds
Deicing Fluids Recycled	no
Stormwater Management	four on-site retention basins attenuate peak runoff discharge and regulate total pollutant loading
Water Quality Studies at Airport	extensive BOD5 sampling reported in 12/89 EIS, airport exceeded permit limitations at some sampling locations

Sources

FAA 5010 Database.

Final EIS Master Plan Development, Detroit Metropolitan Wayne Co. Airport, prepared by U.S. Dept. of Transportation, FAA, December 1989.

Phone interview with Sean Brosnan, Noise Abatement Officer, 5/16/96.

Record of Approval of Part 150, Detroit Metropolitan-Wayne County Airport, 11/16/92.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Fort Lauderdale International Airport

Fort Lauderdale, Florida

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Fort Lauderdale International, Florida
Airport Number	32
Date of Response	5/18/95
Respondent	Diana D. Lewis, AHE
Respondent's Title	Airport Planner
Address	1400 Lee Wagener Blvd.
City	Ft. Lauderdale
State	FL

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Zip Code	33315
Phone Number	(305) 359-6142
Fax Number	(305) 359-1335
Public or Private Management	public
Commercial Operations	164,730
General Aviation Operations	67,979
Number of Runways	3
Length of Runways (Feet)	9,000; 6,928; 5,286
Square Mileage of Airport	2.4
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	unanswered
Noise Office	yes
Noise Office's Phone Number	(305) 359-6181
Noise Officer's Name	Lori Kligfield Labelle

Average Noise Complaints Per Month	30-100
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: information compiled in a report
Response Received	personal call
Curfews/Noise Guidelines	use of 9R/27L limited at night
Percentage of Stage 3 Flights	50%
Community Surrounding Airport	urban
65 dB DNL Population	350
Expansion Plans	new terminal with 18 gates within 2-3 years, additional concourses in old terminals, new and extended runways, new parking lot
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	800 parcels purchased for residential noise abatement; airport's 150 Plan contains recommendations on soundproofing public facilities
Most Recent Noise Exposure Map	1993
Bodies of Water within Three Miles	ocean, lake, canals

Deice at Airport	no
Deicing Treatment	n/a
Deicing Fluids Recycled	n/a
Stormwater Management	none
Water Quality Studies at Airport	none

Sources

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

Phone interview with Lori Kligfield LaBelle, Noise Abatement Officer, Fort Lauderdale/Hollywood International Airport, 7/17/95.

Phone interview with Diana Lewis, Airport Planner, Fort Lauderdale/ Hollywood International Airport, 7/19/95.

Survey response from airport, 5/18/95.



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Southwest Florida International Airport

Fort Meyers, Florida

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Airport Name	Southwest Florida International, Florida
Airport Number	60
Date of Response	5/3/95
Respondent	Paul Doherty
Respondent's Title	Executive Director
Address	16000 Chamberlin Pkwy- 8671
City	Ft. Meyers
State	FL

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Zip Code	33913
Phone Number	(813) 768-1000
Fax Number	(813) 768-4446
Public or Private Management	public
Commercial Operations	39,873
General Aviation Operations	6,959
Number of Runways	1
Length of Runways (Feet)	12,000
Square Mileage of Airport	8
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 70%; commercial car 30%
Noise Office	yes
Noise Office's Phone Number	(813) 768-1000
Noise Officer's Name	Tim Nichols

Average Noise Complaints Per Month	50
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	if requested
Curfews/Noise Guidelines	voluntary flight path routes for noise abatement; voluntary preferential runway use program
Percentage of Stage 3 Flights	55%
Community Surrounding Airport	rural, industrial, commercial, agricultural
65 dB DNL Population	0
Expansion Plans	new runway planned for use in 2000
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	planned buyouts for future additional runway; easements
Most Recent Noise Exposure Map	1994
Bodies of Water within Three Miles	stream

Deice at Airport	yes
Deicing Treatment	PG; airport requires collection of fluid as it flows off aircraft surface
Deicing Fluids Recycled	no
Stormwater Management	ramp drains through oil/water separators
Water Quality Studies at Airport	fuel/hydrant monitoring; wastewater treatment system monitoring

Sources

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

Survey response from airport, 5/3/95.

U.S. Department of Transportation, Federal Aviation Administration, 1994 *Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.



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Fresno Air Terminal Airport

Fresno, California

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Fresno Air Terminal, California
Airport Number	108
Date of Response	6/8/95
Respondent	Douglas E. Mooradian
Respondent's Title	Airport Operations Manager
Address	2401 N. Ashley Way
City	Fresno
State	CA

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Zip Code	93727
Phone Number	(209) 498-4700
Fax Number	(209) 251-4825
Public or Private Management	public
Commercial Operations	64,876
General Aviation Operations	95,516
Number of Runways	2
Length of Runways (Feet)	9,222; 7,206
Square Mileage of Airport	3.5
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 80%; commercial car 15%; mass transit 5%
Noise Office	yes
Noise Office's Phone Number	(209) 498-4700
Noise Officer's Name	Kathy Lowry

Average Noise Complaints Per Month	10
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	personal call same day if possible
Curfews/Noise Guidelines	engine maintenance run-ups restricted to certain locations and the hours 5:00am to 10:00pm; run-ups in other locations or at other times must be approved in advance; preferential flight paths and runways
Percentage of Stage 3 Flights	60%
Community Surrounding Airport	urban, rural
65 dB DNL Population	9,500
Expansion Plans	proposed expansion of terminal
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	11 buyouts; soundproofing; easements; purchase assurance
Most Recent Noise Exposure Map	1988
Bodies of Water within Three Miles	none

Deice at Airport	yes
Deicing Treatment	PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	none
Water Quality Studies at Airport	studies conducted by airport

Sources

Survey response from airport, 6/8/95.



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Grand Canyon National Park Airport

Grand Canyon, Arizona

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Grand Canyon National Park, Arizona
Airport Number	103
Date of Response	6/7/95
Respondent	Michael A. Covalt
Respondent's Title	Airport Manager
Address	P.O. Box 3188
City	Grand Canyon
State	AZ

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Zip Code	86023
Phone Number	(520) 638-2446
Fax Number	(520) 638-2839
Public or Private Management	public
Commercial Operations	138,000
General Aviation Operations	50,000
Number of Runways	1
Length of Runways (Feet)	9,000
Square Mileage of Airport	1.5
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 10%; commercial car 10%; mass transit 80%
Noise Office	no
Noise Office's Phone Number	n/a
Noise Officer's Name	n/a

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	n/a
Noise Complaints Recorded	n/a
Response Received	unanswered
Curfews/Noise Guidelines	recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	not available
Community Surrounding Airport	rural
65 dB DNL Population	100
Expansion Plans	new runway, new terminal
Part 150 Plan	pending completion; not yet submitted to FAA
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	1990
Bodies of Water within Three Miles	none

Deice at Airport	yes
Deicing Treatment	EG; no capture
Deicing Fluids Recycled	no
Stormwater Management	part of AAAE group permit
Water Quality Studies at Airport	undertaking one currently

Sources

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

Survey response from airport, 6/7/95.



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Honolulu International Airport

Honolulu, Hawaii

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Airport Name	Honolulu International, Hawaii
Airport Number	14
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	Honolulu International Airport
City	Honolulu
State	HI

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Zip Code	96819
Phone Number	(808) 836-6533
Fax Number	(808) 838-8750
Public or Private Management	public
Commercial Operations	243,166
General Aviation Operations	98,150
Number of Runways	4
Length of Runways (Feet)	6,952; 9,000; 12,357; 12,000
Square Mileage of Airport	6.5
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	private car 64%; commercial car 11%; other 25%
Noise Office	yes
Noise Office's Phone Number	(808) 837-8300
Noise Officer's Name	Wendel Myier, FAA handles calls

Average Noise Complaints Per Month	60
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: military notified when appropriate, airport otherwise records and investigates complaint
Response Received	if deemed a valid complaint, investigation will precede response
Curfews/Noise Guidelines	preferential runway use program; noise abatement flight tracks/procedures
Percentage of Stage 3 Flights	20% of flights within Hawaii;100% of flights to and from Hawaii
Community Surrounding Airport	urban, suburban, industrial, commercial, preserved land, military
65 dB DNL Population	18,969
Expansion Plans	NR
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	airport's 150 plan proposed purchase of incompatible land, noise insulation, easements, and tax incentives to encourage compatible land use and proper zoning; none of this has occurred to date
Most Recent Noise Exposure Map	1991
Bodies of Water within Three Miles	Pacific Ocean, Pearl Harbor, Keehi Lagoon

Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Federal Aviation Administration, Office of Environment and Energy, *FAR Part 150 Airport Noise Compatibility Planning Program: Status of Maps and Programs*, through Fiscal Year 1995.

Honolulu International Airport, Master Plan Update & Noise Compatibility Program, vol. II, part I-II, prepared by KFC Airport Inc. & Edward K. Noda & Associates, Inc., December 1989.

Phone interview with Wendel Myier, Flight Standards, FAA Hawaii, 7/18/95.

Phone interview with David Welhouse, Honolulu International Airport, 9/7/95.

Record of Approval of Part 150, Honolulu International Airport, 8/6/91.

Survey of Top 20 U.S. Airport Noise Abatement Measures. Noise Compatibility Planning and Programming, Dallas/Fort-Worth International Airport, Comments on Draft EIS for Proposed Expansion of DFW International Airport, Appendix 47, August 1989.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Houston Intercontinental Airport

Houston, Texas

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Airport Name	Houston Intercontinental, Texas
Airport Number	19
Date of Response	6/12/95
Respondent	Paul B. Gaines
Respondent's Title	Director of Aviation
Address	P.O. Box 60106
City	Houston
State	TX

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Zip Code	77205
Phone Number	(713) 230-3100
Fax Number	(713) 230-3108
Public or Private Management	public
Commercial Operations	320,539
General Aviation Operations	34,350
Number of Runways	4
Length of Runways (Feet)	12,000; 10,000; 9,400; 6,000
Square Mileage of Airport	12.5
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 60%; commercial car 30%; mass transit 10%
Noise Office	no- Airport Operations handles noise complaints
Noise Office's Phone Number	(713) 230-3100 ext.3050
Noise Officer's Name	n/a

Average Noise Complaints Per Month	1
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints registered on complaint forms along with corresponding map identification
Response Received	personal call or written response
Curfews/Noise Guidelines	mandatory quiet hours established 4/18/83: no engine run-ups above idle between 11:00pm and 6:30am without prior approval from the airport's operations division
Percentage of Stage 3 Flights	75%
Community Surrounding Airport	suburban, commercial, industrial, agricultural
65 dB DNL Population	not available
Expansion Plans	expansion for Leland International Airlines Building; runway extension planned for use in 1997; new runways planned for use in 1999 and 2002
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	1989

Bodies of Water within Three Miles	Greens Bayou
Deice at Airport	yes
Deicing Treatment	EG and PG; captured
Deicing Fluids Recycled	no
Stormwater Management	no
Water Quality Studies at Airport	study done in connection with NPDES/Stormwater Pollution Prevention Program; sampling done by AAAE contractor

Sources

Phone interview with Pam Price, Airport Operations Supervisor, 7/17/95.

Survey response from airport, 6/12/95.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.



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William P. Hobby Houston Airport

Houston, Texas

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Airport Name	William P. Hobby Houston, Texas
Airport Number	37
Date of Response	6/12/95
Respondent	Paul B. Gaines
Respondent's Title	Director of Aviation
Address	P.O. Box 60106
City	Houston
State	TX

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Zip Code	77205
Phone Number	(713) 643-4507
Fax Number	(713) 641-7703
Public or Private Management	public
Commercial Operations	123,791
General Aviation Operations	110,201
Number of Runways	4
Length of Runways (Feet)	7,601; 7,602; 6,000; 5,149
Square Mileage of Airport	1.8
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 60%; commercial car 30%; mass transit 10%
Noise Office	Airport Operations handles noise complaints
Noise Office's Phone Number	(713) 643-4597 extension 4800
Noise Officer's Name	n/a

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints registered on complaint forms along with corresponding map identification
Response Received	personal call or letter
Curfews/Noise Guidelines	mandatory restriction on engine run-ups between 10:00pm and 7:00am
Percentage of Stage 3 Flights	50%
Community Surrounding Airport	urban, suburban, commercial, industrial, agricultural
65 dB DNL Population	not available
Expansion Plans	none
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	1987
Bodies of Water within Three Miles	Sims Bayou

Deice at Airport	yes
Deicing Treatment	EG and PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	NPDES study underway
Water Quality Studies at Airport	studies conducted by airport

Sources

Survey response from airport, 6/12/95.



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Huntsville International Airport

Huntsville, Alabama

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Huntsville International, Alabama
Airport Number	109
Date of Response	6/25/95
Respondent	Greg L. Smith
Respondent's Title	Director of Operations
Address	1000 Glenn Hearn, Box 20008
City	Huntsville
State	AL

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Zip Code	35824
Phone Number	(205) 461-1125
Fax Number	(205) 461-1130
Public or Private Management	public
Commercial Operations	26,816
General Aviation Operations	30,107
Number of Runways	2
Length of Runways (Feet)	8,000; 10,000
Square Mileage of Airport	7
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 75%; commercial car 25%
Noise Office	yes
Noise Office's Phone Number	(205) 772-9395
Noise Officer's Name	Harry Wilson

Average Noise Complaints Per Month	10
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	yes
Curfews/Noise Guidelines	none
Percentage of Stage 3 Flights	100%
Community Surrounding Airport	suburban, rural, industrial, commercial, agricultural
65 dB DNL Population	100
Expansion Plans	airside and landside expansion
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	1991
Bodies of Water within Three Miles	stream

Deice at Airport	yes
Deicing Treatment	EG and PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	stormwater monitoring under NPDES; spill prevention plan
Water Quality Studies at Airport	groundwater study (in conjunction with underground storage tank removal); stormwater study

Sources

Survey response from airport, 6/25/95.



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Indianapolis International Airport

Indianapolis, Indiana

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Airport Name	Indianapolis International, Indiana
Airport Number	47
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	2500 S. High School Road Box 100
City	Indianapolis
State	IN

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Zip Code	46241
Phone Number	(317) 487-9594
Fax Number	(317) 487-5034
Public or Private Management	public
Commercial Operations	186,670
General Aviation Operations	49,972
Number of Runways	3
Length of Runways (Feet)	10,005; 10,000; 7,604
Square Mileage of Airport	9.3
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(317) 487-5122
Noise Officer's Name	Melanie DePoy

Average Noise Complaints Per Month	20
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	yes
Curfews/Noise Guidelines	new "hush house" for engine run-ups between 10:00pm and 7:00am; preferential runway use and flight paths; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	unknown
Community Surrounding Airport	suburban, industrial, commercial
65 dB DNL Population	5,725
Expansion Plans	new 11,200 ft runway opened in 1995
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	750 homes are eligible for acquisition, 315 acquisitions have been approved to date; one nearby town requires noise insulation and an aviation easement for new residential construction in the 65 dB DNL; airport is trying to develop noise overlay zoning with all of the surrounding county
Most Recent Noise Exposure Map	1991

Bodies of Water within Three Miles	streams, wetlands
Deice at Airport	yes
Deicing Treatment	identified simply as glycol; 1992 EIS contained plans for catchment basin and tentative arrangements for recycling
Deicing Fluids Recycled	NR
Stormwater Management	airport was in the process of getting a NPDES permit in 1992
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Final EIS for Indianapolis International Airport, Master Plan Development, U.S. Dept. of Transportation, FAA, May 1992.

Phone interview with Melanie DePoy, Executive Assistant to Director & Manager of Noise Compatibility Program, 8/7/95.

Phone interview with Diane Gascoigne, Public Affairs Officer, Indianapolis International Airport, 5/2/96.

Record of Approval of Part 150, Indianapolis International Airport, 4/27/93.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Jacksonville International Airport

Jacksonville, Florida

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Jacksonville International, Florida
Airport Number	65
Date of Response	5/19/95
Respondent	Herbert C. Godfrey
Respondent's Title	Director of Aviation
Address	P.O. Box 3005
City	Jacksonville
State	FL

Zip Code	32206
Phone Number	(904) 741-2000
Fax Number	(904) 741-2011
Public or Private Management	public
Commercial Operations	99,605
General Aviation Operations	28,993
Number of Runways	2
Length of Runways (Feet)	10,000; 7,700
Square Mileage of Airport	12.5
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 85%; commercial car 15%
Noise Office	no
Noise Office's Phone Number	n/a
Noise Officer's Name	n/a

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	n/a
Noise Complaints Recorded	unanswered
Response Received	n/a
Curfews/Noise Guidelines	none
Percentage of Stage 3 Flights	34.3%
Community Surrounding Airport	urban, suburban, rural, industrial, commercial, agricultural
65 dB DNL Population	less than 100
Expansion Plans	long range plans include new concourses and widening of 3 concourses, 2 new runways and an expanded runway, 2 new wings on main terminal building
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	buyouts only for land use control and future growth- not noise abatement
Most Recent Noise Exposure Map	1991-92
Bodies of Water within Three Miles	lake, stream

Deice at Airport	yes
Deicing Treatment	EG; no capture
Deicing Fluids Recycled	no
Stormwater Management	retention ponds capture surface runoff; oil/water separators and oil skimmers in place at ponds
Water Quality Studies at Airport	studies conducted by airport

Sources

Survey response from airport, 5/19/95.



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Kansas City International Airport

Kansas City, Missouri

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Kansas City International, Missouri
Airport Number	38
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	P.O. Box 20047
City	Kansas City
State	MO

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Zip Code	64195
Phone Number	(816) 243-5259
Fax Number	(816) 243-5440
Public or Private Management	public
Commercial Operations	166,522
General Aviation Operations	16,382
Number of Runways	3
Length of Runways (Feet)	10,801; 9,500; 9,500
Square Mileage of Airport	14.1
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	NR
Noise Office's Phone Number	NR
Noise Officer's Name	NR

Average Noise Complaints Per Month	NR
Airport Gathers Noise Data	NR
Airport Takes Noise Complaints	NR
Noise Complaints Recorded	NR
Response Received	NR
Curfews/Noise Guidelines	voluntary measures to minimize flights over the area southeast of the airport
Percentage of Stage 3 Flights	44%
Community Surrounding Airport	suburban, industrial, commercial, agricultural
65 dB DNL Population	60
Expansion Plans	NR
Part 150 Plan	pending approval by FAA
Buyouts/Other Noise Mitigation Strategies	NR
Most Recent Noise Exposure Map	1992
Bodies of Water within Three Miles	lake, stream

Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Partially completed survey sent via fax on 7/26/95 by Mo Keane, FAA Airports Division, Central Region.

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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McGhee Tyson Airport

Knoxville, Tennessee

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Airport Name	McGhee Tyson, Tennessee
Airport Number	92
Date of Response	5/3/95
Respondent	William F. Marrison
Respondent's Title	Director of Operations
Address	P.O. Box 15600
City	Knoxville
State	TN

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Zip Code	37901
Phone Number	(615) 970-2773
Fax Number	(615) 970-4113
Public or Private Management	public
Commercial Operations	47,019
General Aviation Operations	68,182
Number of Runways	2
Length of Runways (Feet)	both runways are 9,000 feet long
Square Mileage of Airport	3.44
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 90%; commercial car 10%
Noise Office	yes
Noise Office's Phone Number	(615) 970-2773
Noise Officer's Name	Patrick Wilson

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	personal call from noise abatement officer
Curfews/Noise Guidelines	none
Percentage of Stage 3 Flights	40%
Community Surrounding Airport	commercial, suburban, rural
65 dB DNL Population	839
Expansion Plans	terminal expansion plans for 1996
Part 150 Plan	submitted to the FAA, decision is pending
Buyouts/Other Noise Mitigation Strategies	proposed buyouts, soundproofing, and purchase assurance
Most Recent Noise Exposure Map	1994
Bodies of Water within Three Miles	river

Deice at Airport	yes
Deicing Treatment	EG and PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	none
Water Quality Studies at Airport	analysis of ramp run-off

Sources

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

Survey response from airport, 5/3/95.



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McCarran International Airport

Las Vegas, Nevada

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	McCarran International, Nevada
Airport Number	15
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	5757 Wayne Newton Blvd.
City	Las Vegas
State	NV

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Zip Code	89119
Phone Number	(702) 261-5150
Fax Number	(702) 261-4111
Public or Private Management	public
Commercial Operations	309,054
General Aviation Operations	115,115
Number of Runways	4
Length of Runways (Feet)	5,001; 9,776; 14,506; 8,900
Square Mileage of Airport	3.9
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(702) 261-3694
Noise Officer's Name	Michael Fay

Average Noise Complaints Per Month	NR
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded on a noise hotline and compiled into monthly reports
Response Received	personal call or written response
Curfews/Noise Guidelines	restricted use of runway 1R/19L between 8:00pm and 8:00am; encouragement of Stage 3 only between 10:00pm and 7:00am; engine run-up areas situated in less noise-sensitive locations; voluntary preferential runway use program
Percentage of Stage 3 Flights	73%
Community Surrounding Airport	urban, suburban, industrial, commercial, open space
65 dB DNL Population	17,051
Expansion Plans	runway reconstruction planned for 1997
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	as of 1/94: the airport had established a schedule for the purchase of noise-sensitive land uses within the 75+ dB DNL, purchased undeveloped land in the 75+ dB DNL, and worked with local municipalities to encourage compatible land use near the airport; proposed soundproofing of schools and homes in the 70-75 dB DNL and property transaction assistance for single-family home owners in the 70-75 dB DNL had not occurred due to a lack of funding; fair disclosure in real estate transactions was held up by legal difficulties

Most Recent Noise Exposure Map	1992
Bodies of Water within Three Miles	none
Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Federal Aviation Administration, Office of Environment and Energy, *FAR Part 150 Airport Noise Compatibility Planning Program: Status of Maps and Programs*, through Fiscal Year 1995.

Final Report, FAR Part 150 McCarran International Airport, prepared by Brown Bunting Associates, Aviation Noise Studies, January 1994.

Record of Approval of Part 150, McCarran International Airport, 2/15/95.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Blue Grass Airport

Lexington, Kentucky

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Blue Grass, Kentucky
Airport Number	110
Date of Response	5/3/95
Respondent	Mike Flack
Respondent's Title	Executive Director
Address	4000 Versailles Road
City	Lexington
State	KY

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Zip Code	40510
Phone Number	(606) 254-9336
Fax Number	(606) 233-1822
Public or Private Management	public
Commercial Operations	58,617
General Aviation Operations	70,097
Number of Runways	2
Length of Runways (Feet)	7,003; 3,500
Square Mileage of Airport	1.5
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 60%; commercial car 40%
Noise Office	yes
Noise Office's Phone Number	(606) 254-9336
Noise Officer's Name	Jeff Ash

Average Noise Complaints Per Month	few
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	yes
Curfews/Noise Guidelines	recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	75%
Community Surrounding Airport	agricultural
65 dB DNL Population	33 homes
Expansion Plans	new runway; new additions to terminal, ramp, and air freight facilities
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	voluntary buyouts for homeowners in the 65 dB DNL; soundproofing
Most Recent Noise Exposure Map	1991
Bodies of Water within Three Miles	stream

Deice at Airport	yes
Deicing Treatment	EG and PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	no
Water Quality Studies at Airport	testing done by state

Sources

Survey response from airport, 5/3/95.



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Los Angeles International Airport

Los Angeles, California

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Airport Name	Los Angeles International, California
Airport Number	3
Date of Response	6/12/95
Respondent	Steven Yee
Respondent's Title	Airport Manager
Address	1 World Way
City	Los Angeles
State	CA

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Zip Code	90009
Phone Number	(310) 646-4267
Fax Number	(310) 646-1893
Public or Private Management	public
Commercial Operations	436,548
General Aviation Operations	51,478
Number of Runways	4
Length of Runways (Feet)	10,000; 12,000; 8,925; 10,285
Square Mileage of Airport	6
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 48%; commercial car 47%; mass transit 5%
Noise Office	yes
Noise Office's Phone Number	(310) 646-9410
Noise Officer's Name	Robert Beard

Average Noise Complaints Per Month	65-75
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints compiled in a computer file for statistical purposes
Response Received	complainants receive a written response if requested
Curfews/Noise Guidelines	since 1974, all takeoff and landings between midnight and 6:00am must occur over the ocean; all aircraft engine maintenance activity above idle power is prohibited between 11:00pm and 6:00am; runways closest to local communities are used for takeoff, vice versa for landing; departing aircraft must maintain runway heading until over the ocean
Percentage of Stage 3 Flights	83%
Community Surrounding Airport	industrial, commercial, urban
65 dB DNL Population	75,000
Expansion Plans	various proposals for expansion are under consideration as part of Airport Master Plan, including construction of 2 new runways to double passenger service and triple air cargo capacity by 2015
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	City of Inglewood rezoning land near the airport from residential to industrial use; soundproofing of homes in 4 communities
Most Recent Noise Exposure Map	1984

Bodies of Water within Three Miles	Pacific Ocean
Deice at Airport	no
Deicing Treatment	n/a
Deicing Fluids Recycled	n/a
Stormwater Management	water retention basin connected to clarifier system in order to prevent impurities from draining into sewer system
Water Quality Studies at Airport	none

Sources

Belgum, Deborah, "Hayden, Enviros Vow to Fight Airport Growth," *L.A. Times*, DC edition, 7/30/96.

FAA 5010 Database.

Survey response from airport, 6/12/95.



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Dane County Regional Airport

Madison, Wisconsin

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Airport Name	Dane County Regional, Wisconsin
Airport Number	100
Date of Response	6/8/95
Respondent	Peter L. Drahn
Respondent's Title	Airport Director
Address	4000 International Lane
City	Madison
State	WI

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Zip Code	53704
Phone Number	(608) 246-3380
Fax Number	(608) 246-3385
Public or Private Management	public
Commercial Operations	29,896
General Aviation Operations	118,458
Number of Runways	4
Length of Runways (Feet)	9,005; 5,846; 5,051; 3,390
Square Mileage of Airport	6.25
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 80%; commercial car 20%
Noise Office	no- Airport Operations handles noise complaints
Noise Office's Phone Number	(608) 246-3380
Noise Officer's Name	n/a

Average Noise Complaints Per Month	8
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	personal call or written response
Curfews/Noise Guidelines	voluntary preferential flight paths and runway use
Percentage of Stage 3 Flights	54%
Community Surrounding Airport	suburban, rural, industrial, commercial, agricultural
65 dB DNL Population	3,190
Expansion Plans	new runway
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	as of 3/95, 200 homeowners had signed up for the airport's Sales Assistance Program; airport's Part 150 program also proposed the adoption of noise overlay zoning, required aviation easements for new construction in the airport's noise zone, soundproofing, land acquisition to prevent incompatible use/promote open space, and purchase assurance for homes impacted by 70+ dB DNL
Most Recent Noise Exposure Map	1989

Bodies of Water within Three Miles	lake, stream
Deice at Airport	yes
Deicing Treatment	EG and PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	stormwater collected, allowed to biodegrade or sent to municipal water treatment system
Water Quality Studies at Airport	studies conducted by airport

Sources

Survey response from airport, 6/8/95.



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Memphis International Airport

Memphis, Tennessee

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Airport Name	Memphis International, Tennessee
Airport Number	39
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	P.O. Box 30168
City	Memphis
State	TN

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Zip Code	38130
Phone Number	(901) 922-8000
Fax Number	(901) 922-8099
Public or Private Management	private
Commercial Operations	271,424
General Aviation Operations	59,993
Number of Runways	3
Length of Runways (Feet)	8,936; 8,400; 9,319
Square Mileage of Airport	6.0
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	NR
Noise Officer's Name	Solomon Garrett

Average Noise Complaints Per Month	NR
Airport Gathers Noise Data	NR
Airport Takes Noise Complaints	NR
Noise Complaints Recorded	NR
Response Received	NR
Curfews/Noise Guidelines	preferential runway use
Percentage of Stage 3 Flights	NR
Community Surrounding Airport	urban, industrial, commercial, open space
65 dB DNL Population	NR
Expansion Plans	new runway planned for use in 1997, runway extension planned for use in 1999
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	airport has spent \$100 million buying vacant lots and 1,400 homes within the 75 dB DNL; acquired homes are demolished and airport will develop purchased land in noise-compatible ways
Most Recent Noise Exposure Map	NR
Bodies of Water within Three Miles	3 creeks

Deice at Airport	yes
Deicing Treatment	EG is most common; not captured
Deicing Fluids Recycled	no
Stormwater Management	collected in storm drain inlets, routed through pipes into local creeks; also, fuel farm areas contain oil-water separators
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Department of Transportation, FAA Final EIS, Memphis International Airport, prepared by U.S. Dept. of Transportation, FAA Airport's District Office, Memphis, March 1993.

Phone interview with Nolan Gaulding, Planning Assistant, Noise Division, Memphis International Airport, 8/1/95.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Miami International Airport

Miami, Florida

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Airport Name	Miami International, Florida
Airport Number	7
Date of Response	7/1/95
Respondent	Gary J. Dellapa
Respondent's Title	Airport Director
Address	P.O. Box 592075
City	Miami
State	FL

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Zip Code	33159
Phone Number	(305) 876-7077
Fax Number	(305) 876-0948
Public or Private Management	public
Commercial Operations	487,134
General Aviation Operations	75,555
Number of Runways	3
Length of Runways (Feet)	10,500; 9,355; 13,000
Square Mileage of Airport	5.2
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private and rental cars 53%; commercial car 46%; mass transit 1%
Noise Office	no official office
Noise Office's Phone Number	(305) 876-0569
Noise Officer's Name	Jeff Bunting handles calls

Average Noise Complaints Per Month	10
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded on a complaint form and tabulated at the end of each month
Response Received	personal call or written response if necessary
Curfews/Noise Guidelines	voluntary runway use and heading restrictions, recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	54%
Community Surrounding Airport	residential, urban, industrial, commercial
65 dB DNL Population	163,234
Expansion Plans	new runway planned for use in 1999
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	no buyouts or relocations
Most Recent Noise Exposure Map	1985
Bodies of Water within Three Miles	river, drainage ditches, canal

Deice at Airport	yes
Deicing Treatment	EG; collected for disposal
Deicing Fluids Recycled	no
Stormwater Management	ramp scrubbing and other source control measures; the first portion of storm runoff is treated through an oil/water separator
Water Quality Studies at Airport	groundwater and surface water studies

Sources

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

Phone interview with Jeff Bunting, Environmental Planner, Miami International Airport, 7/17/95.

Phone interview with Pedro Hernandez, Miami International Airport, 7/17/95.

Survey response from airport, 7/1/95.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Midland International Airport

Midland, Texas

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Airport Name	Midland International, Texas
Airport Number	101
Date of Response	6/7/95
Respondent	Ken A. Day
Respondent's Title	Director of Airports
Address	9506 LaForce Blvd., Box 60305
City	Midland
State	TX

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Zip Code	79711
Phone Number	(915) 560-2200
Fax Number	(915) 560-2237
Public or Private Management	public
Commercial Operations	100,416
General Aviation Operations	34,433
Number of Runways	4
Length of Runways (Feet)	8,302; 9,501; 4,245; 4,605
Square Mileage of Airport	2.19
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 80%; commercial car 18%; mass transit 2%
Noise Office	yes
Noise Office's Phone Number	(915) 560-2200
Noise Officer's Name	Shawn Schroeder

Average Noise Complaints Per Month	4-5
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: annual files are kept
Response Received	investigation precedes personal phone call
Curfews/Noise Guidelines	none
Percentage of Stage 3 Flights	95-98%
Community Surrounding Airport	rural, industrial, commercial, open space
65 dB DNL Population	108
Expansion Plans	terminal expansion
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	1 buyout as of 6/95; airport's 150 plan proposed the adoption of compatible zoning measures and the acquisition of 45 homes within the 65 and 70 dB DNL
Most Recent Noise Exposure Map	unanswered
Bodies of Water within Three Miles	stream, reservoir

Deice at Airport	yes
Deicing Treatment	PG and Chevron E-36; no capture
Deicing Fluids Recycled	no
Stormwater Management	stormwater pollution prevention plan consisting of material inventory, best management practices, monitoring of storm sewer outfalls, participation of tenants is mandatory
Water Quality Studies at Airport	groundwater study

Sources

Survey response from airport, 6/7/95.



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Nashville International Airport

Nashville, Tennessee

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Nashville International, Tennessee
Airport Number	33
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	1 Terminal Drive, Suite 501
City	Nashville
State	TN

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Zip Code	37214
Phone Number	(615) 275-1664
Fax Number	(615) 275-1784
Public or Private Management	public
Commercial Operations	250,843
General Aviation Operations	61,984
Number of Runways	4
Length of Runways (Feet)	8,000; 7,702; 8,000; 11,029
Square Mileage of Airport	5.9
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(615) 399-0595
Noise Officer's Name	Tim Haskell

Average Noise Complaints Per Month	NR
Airport Gathers Noise Data	NR
Airport Takes Noise Complaints	NR
Noise Complaints Recorded	NR
Response Received	NR
Curfews/Noise Guidelines	air traffic split evenly between the airport's north and south sides during the day; preferential runway use between 10:00pm and 7:00am: 96% of all nighttime operations concentrated onto runway 13/31 between 10:00pm and 7:00am
Percentage of Stage 3 Flights	NR
Community Surrounding Airport	suburban, rural, industrial, commercial
65 dB DNL Population	16,042
Expansion Plans	runway extension planned for use in 2000
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	600 homes have been acquired in the airport's extended approach zone; 2,400 homes have been soundproofed and 600 homeowners have taken advantage of a purchase assistance program; the compatible zoning measures recommended in the airport's 150 plan have not been adopted by the local communities
Most Recent Noise Exposure Map	1989

Bodies of Water within Three Miles	reservoir, river, streams
Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

Airport Noise Compatibility Planning Study, Nashville International Airport. Noise Exposure Maps & Noise Compatibility Program, approved 8/25/89.

FAA 5010 Database.

Phone interview with Tim Haskell, Noise Abatement Officer, 8/1/95.

Record of Approval of Part 150, Nashville International Airport, 8/25/89.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.



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New Orleans International Airport

New Orleans, Louisiana

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Airport Name	New Orleans International, Louisiana
Airport Number	42
Date of Response	5/16/95
Respondent	Charlie Cazayoux
Respondent's Title	Airport Manager
Address	P.O. Box 20007
City	New Orleans
State	LA

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Zip Code	70141
Phone Number	(504) 464-2656
Fax Number	(504) 464-1350
Public or Private Management	public
Commercial Operations	106,320
General Aviation Operations	28,265
Number of Runways	3
Length of Runways (Feet)	7,000; 10,080; 3,576
Square Mileage of Airport	2.57
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 45%; commercial car 46%; mass transit 9%
Noise Office	yes
Noise Office's Phone Number	(504) 465-8815
Noise Officer's Name	Jason Devillier

Average Noise Complaints Per Month	60
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded on electronic voice mail
Response Received	letter sent; if complaints originates from outside the normal complaint area, investigation is conducted regarding airline involved
Curfews/Noise Guidelines	reduction in general aviation training flights between 7:00pm and 7:00am; engine run-ups subject to restrictions; voluntary preferential runway use program; preferential flight paths
Percentage of Stage 3 Flights	57.5%
Community Surrounding Airport	suburban, light industrial, commercial
65 dB DNL Population	6,500
Expansion Plans	26 new gates being added to concourses C and E; concourse D being renovated; expansion of terminal and 2 new runways planned for 2000 and 2020
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	as of 5/95, 400 properties purchased, 528 residences relocated; sound insulation and easements currently in demonstration stages
Most Recent Noise Exposure Map	1985

Bodies of Water within Three Miles	river
Deice at Airport	yes
Deicing Treatment	decision of airlines -- probably both EG and PG; captured
Deicing Fluids Recycled	no
Stormwater Management	stormwater pollution prevention program in accordance with EPA and Louisiana regulations
Water Quality Studies at Airport	one is underway

Sources

Phone interview with Charlie Cazayoux, Airport Manager, New Orleans International Airport, 6/21/95.

Noise Compatibility Committee Quarterly Report, Second Quarter, April-June 1995, New Orleans International Airport, New Orleans, 1995.

Survey response from airport, 5/16/96.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.



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John F. Kennedy International Airport

New York, New York

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Airport Name	John F. Kennedy International, New York
Airport Number	8
Date of Response	11/13/95
Respondent	FOIA/Catherine Pavelec
Respondent's Title	Freedom of Information Administrator
Address	JFK International Blvd. Building 141
City	Jamaica
State	NY

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Zip Code	11430
Phone Number	(718) 244-3501
Fax Number	(718) 244-3505
Public or Private Management	public
Commercial Operations	336,353
General Aviation Operations	14,493
Number of Runways	4
Length of Runways (Feet)	11,351; 8,400; 10,000; 14,572
Square Mileage of Airport	8.1
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 38%, commercial car 48%, mass transit 14%
Noise Office	unanswered
Noise Office's Phone Number	unanswered
Noise Officer's Name	unanswered

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	unanswered
Airport Takes Noise Complaints	unanswered
Noise Complaints Recorded	unanswered
Response Received	unanswered
Curfews/Noise Guidelines	fine for aircraft exceeding 112 dB perceived noise during take-off; restrictions placed on engine run-ups between 10:00pm and 7:00am; restriction of Stage 2 operations between midnight and 6:00am
Percentage of Stage 3 Flights	84%
Community Surrounding Airport	unanswered
65 dB DNL Population	51,317
Expansion Plans	unanswered
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	unanswered
Most Recent Noise Exposure Map	1994
Bodies of Water within Three Miles	Atlantic Ocean, Jamaica Bay, ponds, wetlands

Deice at Airport	yes
Deicing Treatment	EG and PG; deicing fluids flow to catch basins and runoff is discharged into Jamaica Bay
Deicing Fluids Recycled	no
Stormwater Management	storm sewers convey runoff containing deicing chemicals to water bodies adjacent to airport
Water Quality Studies at Airport	studies on file with regional New York DEC office

Sources

11/ 2/95 New York State DEC Region 2 response to FOIA request: *Impacts of Deicing Fluids on Flushing Bay and Jamaica Bay Water Quality*, HydroQual, Inc., July 1992.

11/2/95 New York State DEC Region 2 response to FOIA request: *Aircraft and Runway Deicing Study for The Port Authority of New York and New Jersey*, Weston, Inc., July 1992.

12/7/95 Port Authority of New York & New Jersey response to Freedom of Information Act request.

FAA 5010 Database.

Phone interview with Frank Squeglia, Environmental Specialist, FAA Eastern Airports Division, 6/27/95.

Rand McNally Road Atlas: 66th Edition, 1990.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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LaGuardia International Airport

New York, New York

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Airport Name	LaGuardia International, New York
Airport Number	18
Date of Response	11/13/95
Respondent	FOIA/Catherine Pavelec
Respondent's Title	Freedom of Information Administrator
Address	Port Authority of New York and New Jersey, Hangar 7
City	Flushing
State	NY

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Zip Code	11371
Phone Number	(718) 533-3401
Fax Number	(718) 533-3421
Public or Private Management	public
Commercial Operations	318,312
General Aviation Operations	16,441
Number of Runways	2
Length of Runways (Feet)	both runways are 7,000 ft. long
Square Mileage of Airport	1
Mass Transit Available During All Hours of Airport Operation	unanswered
Transportation Useage To and From Airport, by Percentage	private car 30%, commercial car 64%, mass transit 6%
Noise Office	unanswered
Noise Office's Phone Number	unanswered
Noise Officer's Name	unanswered

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	unanswered
Airport Takes Noise Complaints	unanswered
Noise Complaints Recorded	unanswered
Response Received	unanswered
Curfews/Noise Guidelines	take-offs not permitted if perceived noise level exceeds 112 dB; restrictions on nighttime engine run-ups and auxiliary power unit use; restriction of Stage 2 operations between midnight and 6:00am
Percentage of Stage 3 Flights	63%
Community Surrounding Airport	unanswered
65 dB DNL Population	194,972
Expansion Plans	unanswered
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	unanswered
Most Recent Noise Exposure Map	1994
Bodies of Water within Three Miles	Flushing Bay, East River

Deice at Airport	yes
Deicing Treatment	EG and PG; runoff containing deicing fluids is discharged to Flushing Bay
Deicing Fluids Recycled	no
Stormwater Management	storm sewers convey runoff containing deicing chemicals to water bodies adjacent to airport
Water Quality Studies at Airport	studies on file with regional New York DEC office

Sources

11/ 2/95 New York State DEC Region 2 response to FOIA request: *Impacts of Deicing Fluids on Flushing Bay and Jamaica Bay Water Quality*, HydroQual, Inc., July 1992.

11/2/95 New York State DEC Region 2 response to FOIA request: *Aircraft and Runway Deicing Study for The Port Authority of New York and New Jersey*, Weston, Inc., July 1992.

12/7/95 Port Authority of New York & New Jersey response to Freedom of Information Act request.

FAA 5010 Database.

Phone interview with Frank Squeglia, Environmental Specialist, FAA Eastern Airports Division, 6/27/95.

Rand McNally Road Atlas: 66th Edition, 1990.



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Newark International Airport

Newark, New Jersey

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Airport Name	Newark International, New Jersey
Airport Number	9
Date of Response	11/13/95
Respondent	FOIA/Catherine Pavelec
Respondent's Title	Freedom of Information Administrator
Address	Tower Road
City	Newark
State	NJ

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Zip Code	07114
Phone Number	(973) 961-6000
Fax Number	(201) 961-6259
Public or Private Management	public
Commercial Operations	410,309
General Aviation Operations	21,118
Number of Runways	3
Length of Runways (Feet)	8,200; 9,300; 6,800
Square Mileage of Airport	3.3
Mass Transit Available During All Hours of Airport Operation	unanswered
Transportation Useage To and From Airport, by Percentage	private car 52%, commercial car 40%, mass transit 8%
Noise Office	unanswered
Noise Office's Phone Number	unanswered
Noise Officer's Name	unanswered

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	unanswered
Airport Takes Noise Complaints	unanswered
Noise Complaints Recorded	unanswered
Response Received	unanswered
Curfews/Noise Guidelines	take-offs not permitted if perceived noise level exceeds 112 dB; restrictions placed on engine run-ups between 10:00pm and 6:00am; restriction of Stage 2 operations between midnight and 6:00am
Percentage of Stage 3 Flights	65%
Community Surrounding Airport	urban, industrial, commercial, open space
65 dB DNL Population	17,939
Expansion Plans	unanswered
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	unanswered
Most Recent Noise Exposure Map	1994
Bodies of Water within Three Miles	Elizabeth Channel, Newark Bay, lakes, marshlands

Deice at Airport	yes
Deicing Treatment	EG and PG; spent deicing fluids flow to stormwater catch basins and discharge to a peripheral ditch surrounding airport
Deicing Fluids Recycled	unanswered
Stormwater Management	peripheral ditch around airport directs stormwater into Elizabeth Channel & Newark Bay under EPA and New Jersey Department of Environmental Protection permits
Water Quality Studies at Airport	New Jersey Department of Environmental Protection says water quality in surrounding marshlands is "pretty bad"

Sources

11/ 2/95 New York State DEC Region 2 response to FOIA request: *Impacts of Deicing Fluids on Flushing Bay and Jamaica Bay Water Quality*, HydroQual, Inc., July 1992.

11/2/95 New York State DEC Region 2 response to FOIA request: *Aircraft and Runway Deicing Study for The Port Authority of New York and New Jersey*, Weston, Inc., July 1992.

12/7/95 Port Authority of New York & New Jersey response to Freedom of Information Act request.

FAA 5010 Database.

Final EIS For the Installation Of An I.L.S. On Runway 11 At Newark International Airport, prepared by CH2M HILL in Association with Potomac Associates, February 1994.

Phone interview with Walter Olivant, New Jersey Department of Environmental Protection, 7/20/95.

Phone interview with Frank Squeglia, Environmental Specialist, FAA Eastern Airports Division, 6/27/95.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Metropolitan Oakland International Airport

Oakland, California

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Airport Name	Metropolitan Oakland International, California
Airport Number	40
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	Metro Oakland International Airport
City	Oakland
State	CA

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Zip Code	94621
Phone Number	(510) 577-4000
Fax Number	(510) 420-9392
Public or Private Management	public
Commercial Operations	177,117
General Aviation Operations	261,232
Number of Runways	4
Length of Runways (Feet)	10,000; 5,432; 6210; 3,360
Square Mileage of Airport	4.5
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(510) 577-4194
Noise Officer's Name	Carol Waylet

Average Noise Complaints Per Month	30
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded either by electronic voice mail or staff member
Response Received	Supervisor of Airfield Services informs complainant of investigation findings
Curfews/Noise Guidelines	no engine run-ups between 8:00pm and 7:00am without permission of airport manager; run-ups permitted only in designated areas; preferential runway use; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	81%
Community Surrounding Airport	suburban, industrial, commercial
65 dB DNL Population	675
Expansion Plans	NR
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	for approximately the past 20 years, all houses built within a certain line that rings the airport must be soundproofed and contain noise easements within their deeds: this line was drawn by a judge and based on 65 dB CNEL patterns at the time; soundproofing of up to 300 townhouses might happen in future
Most Recent Noise Exposure Map	1986

Bodies of Water within Three Miles	San Francisco Bay
Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Final Report, FAR Part 150, Noise Exposure Maps & Noise Compatibility Program-Metropolitan Oakland Airport, prepared for the Port of Oakland, Oakland, CA by KPMG Peat Marwick Airport Consulting Services, April 1988.

Phone interview with Carol Waylet, Noise and Environmental Management Officer, Oakland International Airport, 8/15/95.

Rand McNally Road Atlas: 66th Edition, 1990.

Record of Approval of Part 150, Metropolitan Oakland Airport, 5/21/91.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Will Rogers World Airport

Oklahoma City, Oklahoma

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Airport Name	Will Rogers World, Oklahoma
Airport Number	63
Date of Response	5/3/95
Respondent	Luther E. Trent
Respondent's Title	Director of Airports
Address	7100 Terminal Drive, Box 937
City	Oklahoma City
State	OK

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Zip Code	73159
Phone Number	(405) 680-3200
Fax Number	(405) 680-3211
Public or Private Management	public
Commercial Operations	145,939
General Aviation Operations	62,611
Number of Runways	4
Length of Runways (Feet)	9,800; 9,800; 7,800; 3,077
Square Mileage of Airport	12
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 56%; commercial car 44%
Noise Office	no
Noise Office's Phone Number	n/a
Noise Officer's Name	n/a

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	n/a
Noise Complaints Recorded	unanswered
Response Received	personal call and/or written response
Curfews/Noise Guidelines	between 10:00pm and 6:00am tower will assign West runway, which is away from housing areas: compliance is voluntary, plan was implemented in 1994
Percentage of Stage 3 Flights	not available
Community Surrounding Airport	urban, industrial, commercial, agricultural
65 dB DNL Population	3,746
Expansion Plans	terminal concourse expansion is on hold
Part 150 Plan	pending completion; not yet submitted to FAA
Buyouts/Other Noise Mitigation Strategies	buyout of 150 residences
Most Recent Noise Exposure Map	1991
Bodies of Water within Three Miles	stream, pond

Deice at Airport	yes
Deicing Treatment	EG; no capture
Deicing Fluids Recycled	no
Stormwater Management	none
Water Quality Studies at Airport	testing is done in various areas of the airport

Sources

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

Survey response from airport, 5/3/95.



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Ontario International Airport

Ontario, California

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Ontario International, California
Airport Number	44
Date of Response	5/9/95
Respondent	David H. Jefferson
Respondent's Title	Airport Manager
Address	Terminal Building, Room 200
City	Ontario
State	CA

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Zip Code	91761
Phone Number	(909) 988-2700
Fax Number	(909) 988-2702
Public or Private Management	public
Commercial Operations	95,271
General Aviation Operations	29,399
Number of Runways	2
Length of Runways (Feet)	12,200; 10,000
Square Mileage of Airport	2.2
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 70%; commercial car 28%; mass transit 2%
Noise Office	yes
Noise Office's Phone Number	(310) 646-9410
Noise Officer's Name	Robert Beard

Average Noise Complaints Per Month	10
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: information transferred to paper then computer database
Response Received	written response if requested
Curfews/Noise Guidelines	between 10:00pm and 7:00am, all departing jets take off to the east; all jets use full length of runways; no turbo-jet touch-and-gos
Percentage of Stage 3 Flights	87%
Community Surrounding Airport	suburban, commercial
65 dB DNL Population	11,947
Expansion Plans	construction of new 600,000 square foot passenger terminal with 24 gates is under way
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	acquisition of residential units in specifically designated areas; soundproofing in certain areas
Most Recent Noise Exposure Map	1994
Bodies of Water within Three Miles	none

Deice at Airport	yes
Deicing Treatment	PG; no capture system
Deicing Fluids Recycled	no
Stormwater Management	unanswered
Water Quality Studies at Airport	Chino Basin Water District and City of Ontario regularly monitor water and test runoff

Sources

Survey response from airport, 5/9/95.



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Orlando International Airport

Orlando, Florida

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Orlando International, Florida
Airport Number	16
Date of Response	6/27/95
Respondent	Vern Munroe
Respondent's Title	Manager of Aviation Technical Services
Address	O.I.A. 1 Airport Blvd.
City	Orlando
State	FL

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Zip Code	32827
Phone Number	(407) 825-2674
Fax Number	(407) 825-2260
Public or Private Management	public
Commercial Operations	310,573
General Aviation Operations	29,896
Number of Runways	3
Length of Runways (Feet)	12,004; 12,004; 10,000
Square Mileage of Airport	21.8
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 67.4%; commercial car 21.1%; 11.5% other
Noise Office	yes
Noise Office's Phone Number	(407) 825-2674
Noise Officer's Name	Vern Munroe

Average Noise Complaints Per Month	120
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: on a computer
Response Received	personal call or written response
Curfews/Noise Guidelines	preferential runway use, curfew on maintenance run-ups between 10:00pm and 6:00am; requested use of Distant Noise Abatement Departure Profile for jets; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	70%
Community Surrounding Airport	suburban, rural, industrial, commercial, agricultural
65 dB DNL Population	210
Expansion Plans	all 3 runways being expanded; 4th runway being added
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	avigation easements
Most Recent Noise Exposure Map	1995
Bodies of Water within Three Miles	lake, stream

Deice at Airport	no
Deicing Treatment	n/a
Deicing Fluids Recycled	n/a
Stormwater Management	retention ponds; control structures
Water Quality Studies at Airport	ongoing surface water quality monitoring program

Sources

Phone interview with Vern Munroe, Manager, Aviation Technical Services, Orlando International Airport, 6/22/95.

Survey response from airport, 6/27/95.



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Philadelphia International Airport

Philadelphia, Pennsylvania

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Philadelphia International, Pennsylvania
Airport Number	23
Date of Response	12/5/95
Respondent	FOIA/Bob Molle
Respondent's Title	Deputy Director Planning and Development
Address	Division of Aviation, Terminal E
City	Philadelphia
State	PA

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Zip Code	19153
Phone Number	(215) 937-6800
Fax Number	(215) 937-6759
Public or Private Management	public
Commercial Operations	239,141
General Aviation Operations	45,835
Number of Runways	3
Length of Runways (Feet)	9,500; 10,499; 5,459
Square Mileage of Airport	3.4
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	unanswered
Noise Office	unanswered
Noise Office's Phone Number	unanswered
Noise Officer's Name	unanswered

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	unanswered
Airport Takes Noise Complaints	unanswered
Noise Complaints Recorded	unanswered
Response Received	unanswered
Curfews/Noise Guidelines	voluntary preferential runway use between 11:00pm and 6:00am; prescribed area for engine run-ups
Percentage of Stage 3 Flights	unanswered
Community Surrounding Airport	unanswered
65 dB DNL Population	1,837
Expansion Plans	new runway planned for use in 1997
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	unanswered
Most Recent Noise Exposure Map	1994
Bodies of Water within Three Miles	Delaware River, Schuylkill River; wetlands

Deice at Airport	yes
Deicing Treatment	EG and urea
Deicing Fluids Recycled	no
Stormwater Management	drainage system collects runoff, which eventually discharges into Mingo Creek Surge Basin and Delaware River
Water Quality Studies at Airport	unanswered

Sources

12/5/95 response to Freedom of Information Act request.

Environmental Assessment, prepared by Howard, Needles, Tammen & Bergendoff, et. al., September, 1994.

FAA 5010 Database.

Federal Aviation Administration, Office of Environment and Energy, *FAR Part 150 Airport Noise Compatibility Planning Program: Status of Maps and Programs*, through Fiscal Year 1995.

Rand McNally Road Atlas: 66th Edition, 1990.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Phoenix Sky Harbor International Airport

Phoenix, Arizona

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Phoenix Sky Harbor International, Arizona
Airport Number	11
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	3400 Sky Harbor Blvd.
City	Phoenix
State	AZ

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Zip Code	85034
Phone Number	(602) 273-3300
Fax Number	(602) 273-2100
Public or Private Management	public
Commercial Operations	387,272
General Aviation Operations	115,963
Number of Runways	2
Length of Runways (Feet)	11,001; 10,300
Square Mileage of Airport	3.9
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(602) 273-3300
Noise Officer's Name	Shawn Arena

Average Noise Complaints Per Month	10
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	personal call
Curfews/Noise Guidelines	engine maintenance run-ups prohibited between 11:00pm and 5:00am; run-ups conducted at other times must have engines directed away from certain areas; use of Stage 3 aircraft encouraged, especially at night; recommended preferred flight paths
Percentage of Stage 3 Flights	70%
Community Surrounding Airport	suburban, industrial, commercial
65 dB DNL Population	15,000
Expansion Plans	new runway and new concourse currently under construction; estimated opening date for new runway is 1999
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	airport is working on noise overlay zone with the cities of Phoenix and Tempe; airport is also pushing for fair disclosure, aviation easements, and soundproofing of new construction within the 65 dB DNL; 1,500 homes will receive a soundproofing offer
Most Recent Noise Exposure Map	1992

Bodies of Water within Three Miles	Denro Lake, Salt River, Grand Canal, wetlands
Deice at Airport	no
Deicing Treatment	n/a
Deicing Fluids Recycled	n/a
Stormwater Management	a 1993 EIS mentions possible use of oil/water separators, an accelerated schedule of sweeping paved areas, diking a new, consolidated, above-ground fuel farm, construction of sediment pumps and pollution reduction at sources
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Federal Aviation Administration, Office of Environment and Energy, *FAR Part 150 Airport Noise Compatibility Planning Program: Status of Maps and Programs*, through Fiscal Year 1995.

Final EIS for Sky Harbor International Airport, Master Plan Update Improvements, prepared by U.S. Dept. of Transportation, FAA November 1993.

Phone interview with Patrick Martin, Noise Abatement Assistant, Phoenix Sky Harbor International Airport, 8/4/95.

Phone interview with Joan McHenry, Public Information Officer, Phoenix Sky Harbor International Airport, 5/2/96.

Record of Approval of Part 150, Phoenix Sky Harbor International Airport, 4/12/90.

Record of Approval of Part 150, Phoenix Sky Harbor International Airport, 11/21/94.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Pittsburgh International Airport

Pittsburgh, Pennsylvania

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Pittsburgh International, Pennsylvania
Airport Number	21
Date of Response	5/22/95
Respondent	Tom McKinney
Respondent's Title	Acting Deputy Director of Maintenance
Address	P.O. Box 12370
City	Pittsburgh
State	PA

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Zip Code	15231
Phone Number	(412) 472-3677
Fax Number	(412) 472-3636
Public or Private Management	public
Commercial Operations	413,424
General Aviation Operations	28,952
Number of Runways	4
Length of Runways (Feet)	11,000; 10,500; 8,100; 8,039
Square Mileage of Airport	15.6
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	not available
Noise Office	yes
Noise Office's Phone Number	(412) 472-3542
Noise Officer's Name	Richard Holmes

Average Noise Complaints Per Month	30-35
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: card filled for each complaint
Response Received	personal call to discuss complaint
Curfews/Noise Guidelines	nighttime noise abatement procedures, i.e. exclusive use of certain runways for certain purposes between 10:00pm and 6:00am; designated run-up areas and departure turn points; preferential runway use during day and night; preferential flight paths; all guidelines are mandatory
Percentage of Stage 3 Flights	not available
Community Surrounding Airport	suburban, rural, commercial
65 dB DNL Population	1,200-1,300
Expansion Plans	runway extension completed 12/95; new commuter terminal planned
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	some homes were purchased in the last 5 years; these homes were either torn down or soundproofed and resold
Most Recent Noise Exposure Map	1992

Bodies of Water within Three Miles	stream, wetlands
Deice at Airport	yes
Deicing Treatment	PG; captured; up to 1/95, fluids were trucked to Cleveland Ohio, treated, and discharged into river
Deicing Fluids Recycled	no
Stormwater Management	runoff collects in a 2.5 acre pond; NPDES permit
Water Quality Studies at Airport	studies conducted by airport

Sources

Phone interview with Richard Holmes, Noise Abatement Officer, Pittsburgh International Airport, 7/18/95.

Survey response from airport, 5/22/95.



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Portland International Airport

Portland, Oregon

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Portland International, Oregon
Airport Number	36
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	7000 NE Airport Way
City	Portland
State	OR

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Zip Code	97218
Phone Number	(503) 335-1112
Fax Number	(503) 335-1114
Public or Private Management	public
Commercial Operations	208,034
General Aviation Operations	59,910
Number of Runways	3
Length of Runways (Feet)	7,000; 8,000; 11,000
Square Mileage of Airport	4.6
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(503) 335-1234
Noise Officer's Name	Bob Noble

Average Noise Complaints Per Month	NR
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	NR
Response Received	yes
Curfews/Noise Guidelines	restriction on use of runway 2/20; limitations on military night use; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	NR
Community Surrounding Airport	suburban, industrial, agricultural
65 dB DNL Population	1,421
Expansion Plans	NR
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	airport's 1990 150 Plan called for managed growth of noise-sensitive land-uses near the airport (i.e. limits on new residential construction within the 65 dB DNL and mandatory soundproofing of new homes built within the 65 dB DNL), sound insulation of existing homes, acquisition of vacant lots within the 70 dB DNL, and acquisition of existing noise-sensitive land-uses within the 75 dB DNL
Most Recent Noise Exposure Map	1991

Bodies of Water within Three Miles	Columbia River
Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Federal Aviation Administration, Office of Environment and Energy, *FAR Part 150 Airport Noise Compatibility Planning Program: Status of Maps and Programs*, through Fiscal Year 1995.

Portland International Airport Noise Abatement Plan, prepared by KPMG Peat, Marwick Assoc., San Francisco, CA, December 1990.

Record of Approval of Part 150, Portland International Airport, 7/10/85.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Raleigh-Durham International Airport

Raleigh-Durham, North Carolina

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Raleigh-Durham International, North Carolina
Airport Number	30
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	P.O. Box 80001
City	RDU Airport
State	NC

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Zip Code	27623
Phone Number	(919) 840-2100
Fax Number	(919) 840-0175
Public or Private Management	public
Commercial Operations	218,715
General Aviation Operations	67,168
Number of Runways	3
Length of Runways (Feet)	10,000; 7,500; 3,550
Square Mileage of Airport	7.8
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(919) 840-2100
Noise Officer's Name	Armando Tovar

Average Noise Complaints Per Month	not available
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	not recorded due to lack of resources
Response Received	phone call and/or letter
Curfews/Noise Guidelines	mandatory noise threshold put into effect 5/90
Percentage of Stage 3 Flights	57.5%
Community Surrounding Airport	NR
65 dB DNL Population	343
Expansion Plans	third runway and runway expansion possible
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	NR
Bodies of Water within Three Miles	NR

Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	no system in place
Water Quality Studies at Airport	none

Sources

FAA 5010 Database.

Partially completed survey sent via fax on 7/26/95 from Walter Bauer, FAA Atlanta Airports District Office.

Phone interview with Armando Tovar, Noise Officer, Raleigh-Durham Airport Authority, 8/23/95.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Long Island MacArthur Airport

Ronkonkoma, New York

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Airport Name	Long Island MacArthur, New York
Airport Number	99
Date of Response	6/8/95
Respondent	Brad Ringhouse
Respondent's Title	Airport Administrative Supervisor
Address	100 Arrival Avenue
City	Ronkonkoma
State	NY

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Zip Code	11779
Phone Number	(516) 467-3300
Fax Number	(516) 467-3348
Public or Private Management	public
Commercial Operations	36,000
General Aviation Operations	150,000
Number of Runways	4
Length of Runways (Feet)	7,000; 5,186; 3,212; 5,036
Square Mileage of Airport	2.05
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 90%; commercial car 10%
Noise Office	yes
Noise Office's Phone Number	unanswered
Noise Officer's Name	none

Average Noise Complaints Per Month	10
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	relative to nature of complaint
Curfews/Noise Guidelines	mandatory limits on decibel levels between 11:00pm and 6:30am (72 dB on takeoff, 82 dB on approach)
Percentage of Stage 3 Flights	95%
Community Surrounding Airport	suburban, commercial
65 dB DNL Population	1,500
Expansion Plans	yes
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	soundproofing
Most Recent Noise Exposure Map	1991
Bodies of Water within Three Miles	stream

Deice at Airport	yes
Deicing Treatment	no capture
Deicing Fluids Recycled	no
Stormwater Management	system in place
Water Quality Studies at Airport	studies conducted by airport

Sources

FAA 5010 Database.

Phone conversation with Brad Ringhouse, Airport Administrative Supervisor, 6/21/95.

Survey response from airport, 6/8/95.



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Sacramento Metropolitan Airport

Sacramento, California

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Airport Name	Sacramento Metropolitan, California
Airport Number	50
Date of Response	9/6/95
Respondent	FOIA/Jim Humphries
Respondent's Title	Air Quality/Noise Coordinator
Address	6900 Airport Blvd.
City	Sacramento
State	CA

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Zip Code	95837
Phone Number	(916) 929-5411
Fax Number	(916) 648-0636
Public or Private Management	public
Commercial Operations	103,769
General Aviation Operations	60,921
Number of Runways	2
Length of Runways (Feet)	both runways are 8,600 ft. long
Square Mileage of Airport	8.5
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	unanswered
Noise Office	yes
Noise Office's Phone Number	(916) 641-7000
Noise Officer's Name	Sacramento Metropolitan Airport Noise Hotline

Average Noise Complaints Per Month	40-50
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	phone call, often a letter
Curfews/Noise Guidelines	preferential runway use; night and morning flights take off to north whenever possible
Percentage of Stage 3 Flights	92%
Community Surrounding Airport	rural, agricultural, open space
65 dB DNL Population	"few if any"
Expansion Plans	2nd terminal planned
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	"a few"
Most Recent Noise Exposure Map	1990
Bodies of Water within Three Miles	unanswered

Deice at Airport	very rarely
Deicing Treatment	unanswered
Deicing Fluids Recycled	unanswered
Stormwater Management	unanswered
Water Quality Studies at Airport	unanswered

Sources

9/6/95 response to Freedom of Information Act request.

FAA 5010 Database.

Phone call to Sacramento County Zoning Board, 7/17/95.

Phone interview with Jim Humphries, Air Quality/Noise Coordinator, Sacramento International Airport, 9/21/95.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Saipan International Airport

Saipan, CM

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Airport Name	Saipan International, Northern Mariana Islands
Airport Number	96
Date of Response	6/28/95
Respondent	Carlos A. Shoda
Respondent's Title	Executive Director
Address	P.O.Box 1055
City	Saipan
State	MP

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Zip Code	96950
Phone Number	(670) 664-3500
Fax Number	(670) 234-5962
Public or Private Management	public
Commercial Operations	51,802
General Aviation Operations	none
Number of Runways	1
Length of Runways (Feet)	8,700
Square Mileage of Airport	unanswered
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Usage To and From Airport, by Percentage	unanswered
Noise Office	no
Noise Office's Phone Number	n/a
Noise Officer's Name	n/a

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	letter kept on file
Response Received	written response
Curfews/Noise Guidelines	none
Percentage of Stage 3 Flights	not available
Community Surrounding Airport	urban, commercial, agricultural
65 dB DNL Population	unanswered
Expansion Plans	yes
Part 150 Plan	not yet complete
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	n/a
Bodies of Water within Three Miles	ocean

Deice at Airport	no
Deicing Treatment	n/a
Deicing Fluids Recycled	n/a
Stormwater Management	system is in place
Water Quality Studies at Airport	none

Sources

Survey response from airport, 6/28/95.



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Salt Lake City International Airport

Salt Lake City, Utah

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Airport Name	Salt Lake City International, Utah
Airport Number	25
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	AMF 22084
City	Salt Lake City
State	UT

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Zip Code	84122
Phone Number	(801) 575-2408
Fax Number	(801) 575-2679
Public or Private Management	public
Commercial Operations	239,974
General Aviation Operations	80,040
Number of Runways	3
Length of Runways (Feet)	4,758; 12,003; 9,596
Square Mileage of Airport	11.4
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(801) 575-2400
Noise Officer's Name	Scott Milovich

Average Noise Complaints Per Month	1
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	yes- phone call or letter
Curfews/Noise Guidelines	airport's 150 plan proposed preferential runway use and voluntary noise abatement techniques for pilots of departing planes
Percentage of Stage 3 Flights	not available
Community Surrounding Airport	suburban, industrial, commercial, agricultural
65 dB DNL Population	3,915
Expansion Plans	new runway opened in 11/95; airport beginning work on expansion of terminals, concourses, hangars, and parking areas
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	land acquisition and buyout and relocation programs have both been completed; aviation easements obtained within Airport Influence Zones
Most Recent Noise Exposure Map	1988
Bodies of Water within Three Miles	wetlands

Deice at Airport	yes
Deicing Treatment	deicing agents captured and treated before being released into Salt Lake City sewer system; 97% of deicing fluid is captured
Deicing Fluids Recycled	NR
Stormwater Management	stormwater from deicing areas isolated and treated; Discharge Monitoring Reports done to comply with NPDES permit, Best Management Practices being evaluated and implemented to control non-point stormwater contamination; 1992 EIS proposed building settling ponds with oil/water separators, vector-skimming devices, and grease traps at all airport discharge points
Water Quality Studies at Airport	water quality studies included in a 1992 Environmental Assessment

Sources

FAA 5010 Database.

FAR Part 150 Noise Compatibility Planning Study Volume II: Noise Compatibility Planning Program, prepared for Salt Lake City Airport Authority by Reynolds, Smith, & Hills-Architects, Planners, Inc. in association with Harris, Miller, Miller, & Hanson, Inc. April 1987.

Final Environmental Assessment for Salt Lake City International Airport, Environmental Science Associates, San Francisco, January 1992.

Final EIS for Salt Lake City International Airport Expansion, Salt Lake City, Utah, Lead Agency U.S. Department of Transportation, Federal Aviation Administration in cooperation with the Army Corps of Engineers, 6/92.

Phone call Salt Lake City International Airport, 5/2/96.

Phone interview with Scott Milovich, Planner & Liaison for Noise Complaints, Salt Lake City International Airport, 8/2/95.

Record of Approval of Part 150, Salt Lake City International Airport, 9/13/87.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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San Antonio International Airport

San Antonio, Texas

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Airport Name	San Antonio International, Texas
Airport Number	48
Date of Response	5/16/95
Respondent	Michael J. Kutchins
Respondent's Title	Aviation Director
Address	9800 Airport Blvd.
City	San Antonio
State	TX

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Zip Code	78216
Phone Number	(210) 821-3450
Fax Number	(210) 821-3500
Public or Private Management	public
Commercial Operations	124,364
General Aviation Operations	98,243
Number of Runways	3
Length of Runways (Feet)	8,502; 7,505; 5,437
Square Mileage of Airport	4.06
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 46.8%; commercial car 42.5%; mass transit 3.1%; other 7.6%
Noise Office	yes
Noise Office's Phone Number	(210) 821-3471
Noise Officer's Name	Les Hobgood

Average Noise Complaints Per Month	20
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded on form and sent to officer
Response Received	personal call or letter
Curfews/Noise Guidelines	no engine run-ups between 11:00pm and 6:00am
Percentage of Stage 3 Flights	69%
Community Surrounding Airport	urban, suburban, rural, industrial, commercial, agricultural
65 dB DNL Population	37,268
Expansion Plans	terminal and runway expansions likely to be included in airport master plan
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	9 schools soundproofed since 1992; as of 5/95: the City Council had approved soundproofing for churches, nursing homes, and libraries near airport in return for aviation easements; the City Planning and Aviation Departments had made plans to inventory all property within the airport's validated noise contours; discussion of implementing a noise disclosure ordinance planned for the future
Most Recent Noise Exposure Map	1988

Bodies of Water within Three Miles	Salado Creek, Olmos Creek
Deice at Airport	yes
Deicing Treatment	EG; no capture
Deicing Fluids Recycled	no
Stormwater Management	plan currently being developed
Water Quality Studies at Airport	none

Sources

Executive Summary and Progress Report, San Antonio International Airport: FAR Part 150 Noise Compatibility Program, May 12, 1995.

Survey response from airport, 5/16/95.



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San Diego International Airport

San Diego, California

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	San Diego International, California
Airport Number	27
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	Lindbergh Field, Box 488
City	San Diego
State	CA

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Zip Code	92112
Phone Number	(619) 231-5221
Fax Number	(619) 291-0753
Public or Private Management	public
Commercial Operations	184,707
General Aviation Operations	19,297
Number of Runways	2
Length of Runways (Feet)	9400, 4400
Square Mileage of Airport	0.75
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(619) 686-6381
Noise Officer's Name	Danette Lake

Average Noise Complaints Per Month	100-200
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded on a hotline and retrieved by staff; information filed in computer
Response Received	personal call or written response
Curfews/Noise Guidelines	since 1988, Stage 3 departures restricted to the hours between 6:30am and 11:30pm and Stage 2 departures restricted to the hours between 7:00am and 10:00pm; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	89%
Community Surrounding Airport	urban
65 dB DNL Population	40,000
Expansion Plans	8 new gates
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	currently negotiating soundproofing measures with the local community; airport purchased house within the 75 dB DNL and soundproofed it in order to demonstrate effective noise insulation methods; 6 schools soundproofed within the 65 dB DNL contour projected for the year 2000
Most Recent Noise Exposure Map	1995

Bodies of Water within Three Miles	San Diego Bay
Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Phone interview with Danette Lake, Manager, Airport Noise Information Office, San Diego International Airport, 6/30/95.

Rand McNally Road Atlas: 66th Edition, 1990.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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San Francisco International Airport

San Francisco, California

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	San Francisco International, California
Airport Number	5
Date of Response	5/23/95
Respondent	Louis Turpen
Respondent's Title	Director
Address	P.O. Box 8097
City	San Francisco
State	CA

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Zip Code	94128
Phone Number	(415) 876-2121
Fax Number	(415) 876-7875
Public or Private Management	public
Commercial Operations	394,646
General Aviation Operations	24,925
Number of Runways	8
Length of Runways (Feet)	11,870; 10,600; 9,500; 7,000
Square Mileage of Airport	8.7
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 74.6%, private van/bus 22.7%, mass transit 2.6%
Noise Office	yes
Noise Office's Phone Number	(415) 876-2220
Noise Officer's Name	Marvin Ellis

Average Noise Complaints Per Month	300
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: recorded in a database
Response Received	postcard acknowledgment sent next day, computerized letter sent the following month
Curfews/Noise Guidelines	Stage 2 operation prohibited between 11:00pm and 7:00am since January 1989; Preferential Runway Use Agreement; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	76%
Community Surrounding Airport	suburban, industrial, commercial
65 dB DNL Population	7,825
Expansion Plans	new international terminal
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	noise insulation and easement strategies
Most Recent Noise Exposure Map	1983
Bodies of Water within Three Miles	bay, wetlands

Deice at Airport	no
Deicing Treatment	n/a
Deicing Fluids Recycled	n/a
Stormwater Management	stormwater flows to detention basins, then to the airport's industrial waste plant, then to San Francisco Bay
Water Quality Studies at Airport	airport currently operating under mandate from state water quality board to clean fuel and solvent polluted soil

Sources

Survey response by airport, 5/23/95.



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San Jose International Airport

San Jose, California

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	San Jose International, California
Airport Number	41
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	1661 Airport Blvd, Suite C205
City	San Jose
State	CA

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Zip Code	95110
Phone Number	(408) 277-4705
Fax Number	(408) 277-3191
Public or Private Management	public
Commercial Operations	135,100
General Aviation Operations	176,278
Number of Runways	3
Length of Runways (Feet)	4,599; 4,419; 10,200
Square Mileage of Airport	1.6
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	yes
Noise Office's Phone Number	(408) 277-5246
Noise Officer's Name	Larry Galindo

Average Noise Complaints Per Month	250
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	yes, if phone number or address given
Curfews/Noise Guidelines	designated areas for run-ups; no engine run-ups between 11:30pm and 6:30am; curfew on scheduled Stage 3 flights 11:30pm and 6:30am; curfew on scheduled Stage 2 flights between 11:00pm and 7:00am
Percentage of Stage 3 Flights	93.1%
Community Surrounding Airport	suburban
65 dB DNL Population	3,000
Expansion Plans	NR
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	650 homes to the airport's south were bought and destroyed between the 1960s and 1993; the city of Santa Clara requires soundproofing and avigation easements for new residential development within the 65 dB CNEL; 1,500 existing homes became eligible for soundproofing in 1994, 125 had been soundproofed by 8/95; schools were soundproofed in 1992 and 1993
Most Recent Noise Exposure Map	1985

Bodies of Water within Three Miles	river
Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

Phase II Aircraft Noise Compatibility Program Report: FAR Part 150 Airport Noise Compatibility Program; San Jose International Airport, Final Report, prepared by McClintock, Becker & Associates, Foster City, CA November, 1986.

Phone interview with Cary Greene, Airport Planner, City of San Jose Airport Department, 8/8/95.

San Jose International Airport, Airport Noise Monitoring Data-Quarterly Report, 3rd Quarter- Calendar Year 1994, p. 1. FAA 5010 Database.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Luis Munoz Marin International Airport

San Juan, Puerto Rico

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Airport Name	Luis Munoz Marin International, Puerto Rico
Airport Number	35
Date of Response	6/6/95
Respondent	Jose R. Augusto
Respondent's Title	Airport Manager
Address	P.O. Box 37250 Airport Station
City	San Juan
State	PR

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Zip Code	00937
Phone Number	(809) 791-4670
Fax Number	(809) 791-4835
Public or Private Management	public
Commercial Operations	157,901
General Aviation Operations	21,053
Number of Runways	2
Length of Runways (Feet)	10,002; 8,016
Square Mileage of Airport	2.5
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 70%; commercial car 28%; mass transit 2%
Noise Office	no
Noise Office's Phone Number	n/a
Noise Officer's Name	n/a

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	n/a
Noise Complaints Recorded	n/a
Response Received	unanswered
Curfews/Noise Guidelines	curfew on runway 10 from 9:00pm to 6:00am; preferential flight paths
Percentage of Stage 3 Flights	unanswered
Community Surrounding Airport	urban, commercial
65 dB DNL Population	30,000
Expansion Plans	expansion of current terminal in future; crossfield taxiway; new Air Traffic Control tower
Part 150 Plan	plans being made to create taskforce
Buyouts/Other Noise Mitigation Strategies	none currently; in the future, soundproofing could be considered along with easements
Most Recent Noise Exposure Map	unanswered
Bodies of Water within Three Miles	ocean, lagoons

Deice at Airport	no
Deicing Treatment	n/a
Deicing Fluids Recycled	n/a
Stormwater Management	plans being made to institute a program
Water Quality Studies at Airport	none

Sources

Survey response from airport, 6/6/95.



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Sarasota/Bradenton International Airport

Sarasota, Florida

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Airport Name	Sarasota/Bradenton International, Florida
Airport Number	83
Date of Response	5/12/95
Respondent	Deborah W. Murphy
Respondent's Title	Manager, Environmental Affairs
Address	P.O. Box 13399, Airgate Station
City	Sarasota
State	FL

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Zip Code	34278
Phone Number	(941) 359-5009
Fax Number	(941) 359-5007
Public or Private Management	public
Commercial Operations	38,798
General Aviation Operations	109,685
Number of Runways	2
Length of Runways (Feet)	7,003; 5,004
Square Mileage of Airport	1.7
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 75%; commercial car 20%; mass transit 5%
Noise Office	yes
Noise Office's Phone Number	(941) 359-5009
Noise Officer's Name	Lionel Guilbert

Average Noise Complaints Per Month	180
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints entered into Noise Monitoring and Flight Tracking System
Response Received	explanation provided upon request
Curfews/Noise Guidelines	no Stage 2 departures between 10:00pm and 7:00am
Percentage of Stage 3 Flights	50%
Community Surrounding Airport	urban, suburban, industrial, commercial
65 dB DNL Population	5,955
Expansion Plans	plans to add 2 new concourses; extension of runway
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	buyout of residential units in 75 DNL area; buyout of other residential and commercial properties; easement and Purchase Assurance Program in 70 DNL; sound insulation (pilot project)
Most Recent Noise Exposure Map	1988
Bodies of Water within Three Miles	ocean, bay, stream

Deice at Airport	rarely
Deicing Treatment	PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	system in place
Water Quality Studies at Airport	studies conducted by airport

Sources

Survey response from airport, 5/12/95.



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Seattle-Tacoma International Airport

Seattle, Washington

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Airport Name	Seattle-Tacoma International, Washington
Airport Number	20
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	P.O. Box 68727
City	Seattle
State	WA

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Zip Code	98168
Phone Number	(206) 433-5387
Fax Number	(206) 431-5912
Public or Private Management	public
Commercial Operations	315,000
General Aviation Operations	8,100
Number of Runways	2
Length of Runways (Feet)	11,900; 9,425
Square Mileage of Airport	3.9
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	private car 60.8%; commercial car 24.5%; mass transit 0.3%; other 14.4%
Noise Office	yes
Noise Office's Phone Number	(206) 433-5216
Noise Officer's Name	Diane Summerhays

Average Noise Complaints Per Month	350
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes, complaints logged into a computer
Response Received	yes
Curfews/Noise Guidelines	voluntary rescheduling of night flights; no power-backs allowed at gates; no Stage 2 flights between 10:00pm and 7:00am; development of an airline-by-airline noise budget; restriction of engine run-ups at night; preferential flight paths
Percentage of Stage 3 Flights	84%
Community Surrounding Airport	residential, industrial, commercial, agricultural, open space
65 dB DNL Population	31,800
Expansion Plans	new runway planned for use in 2001
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	1,400 parcels of land have been purchased, the people living on them have been relocated according to federal relocation laws; as of 3/95, 4,098 homeowners had asked the airport to soundproof their homes and 2,656 of soundproofings had been completed; a soundproofing program is also in the works for public buildings; 85 homeowners experiencing difficulties selling their homes have received assistance through a transaction assistance program; soundproofing is required for new construction within the 65+ dB DNL in surrounding King County and the city of Des Moines

Most Recent Noise Exposure Map	1993
Bodies of Water within Three Miles	Puget Sound, 10 small lakes/ponds, 4 creeks
Deice at Airport	yes
Deicing Treatment	EG, PG, urea, potassium-acetate; captured and drained into Industrial Waste System
Deicing Fluids Recycled	NR
Stormwater Management	Port of Seattle holds a NPDES permit for the airport
Water Quality Studies at Airport	water quality study was included in 1995 EIS

Sources

Draft EIS for Proposed Master Plan Update Development Actions at Seattle-Tacoma International Airport, Vols. I, II, & III, April 1995.

FAA 5010 Database.

Federal Aviation Administration, Office of Environment and Energy, *FAR Part 150 Airport Noise Compatibility Planning Program: Status of Maps and Programs*, through Fiscal Year 1995.

Phone interview with Diane Summerhays, Planning Program Manager, Sea-Tac International Airport, 8/16/95 and 10/24/95.

Sound Information: Sea-Tac Noise Abatement Report, published May 23, 1995.



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Michiana Regional Transportation Airport

South Bend, Indiana

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Michiana Regional Transportation, Indiana
Airport Number	118
Date of Response	6/1/95
Respondent	John C. Schalliol
Respondent's Title	Airport Director
Address	4477 Terminal Drive
City	South Bend
State	IN

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Zip Code	46628
Phone Number	(219) 233-2185
Fax Number	(219) 239-2585
Public or Private Management	public
Commercial Operations	35,356
General Aviation Operations	41,626
Number of Runways	3
Length of Runways (Feet)	7,100; 6,000; 4,300
Square Mileage of Airport	2.42
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	private car 95%; commercial car 3%; mass transit 2%
Noise Office	no
Noise Office's Phone Number	n/a
Noise Officer's Name	n/a

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	n/a
Noise Complaints Recorded	n/a
Response Received	unanswered
Curfews/Noise Guidelines	none
Percentage of Stage 3 Flights	unanswered
Community Surrounding Airport	urban, agricultural
65 dB DNL Population	1,000
Expansion Plans	yes
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	1992
Bodies of Water within Three Miles	river

Deice at Airport	yes
Deicing Treatment	EG; no capture
Deicing Fluids Recycled	no
Stormwater Management	none
Water Quality Studies at Airport	study conducted due to leaking underground storage tank incident

Sources

Survey response from airport, 6/1/95.



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Lambert-St. Louis International Airport

St. Louis, Missouri

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Lambert-St. Louis International, Missouri
Airport Number	17
Date of Response	6/6/95
Respondent	unanswered
Respondent's Title	unanswered
Address	P.O. Box 10212
City	St. Louis
State	MO

Zip Code	63145
Phone Number	(314) 426-8188
Fax Number	(314) 426-1221
Public or Private Management	public
Commercial Operations	423,242
General Aviation Operations	38,744
Number of Runways	5
Length of Runways (Feet)	9,000; 11,000; 7,600; 3000; 6,300
Square Mileage of Airport	4
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 80%; commercial car 18%; mass transit 2%
Noise Office	yes
Noise Office's Phone Number	(314) 731-4100
Noise Officer's Name	Karl Reid

Average Noise Complaints Per Month	135
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: a report is compiled monthly, quarterly, and annually
Response Received	personal call or written response
Curfews/Noise Guidelines	engine run-ups restricted by area, heading, and time of day; preferential flight paths used in order to avoid residential areas; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	not available
Community Surrounding Airport	urban, industrial, commercial
65 dB DNL Population	not available
Expansion Plans	east terminal to add an additional 7 gates
Part 150 Plan	submitted to FAA, but not approved as of 5/1/96
Buyouts/Other Noise Mitigation Strategies	ongoing buyout program; sound insulation for schools
Most Recent Noise Exposure Map	1987
Bodies of Water within Three Miles	stream

Deice at Airport	yes
Deicing Treatment	EG and PG; most of it is captured then processed by a contractor
Deicing Fluids Recycled	yes
Stormwater Management	system currently under development
Water Quality Studies at Airport	unanswered

Sources

Phone interview with Tom Bennett, Environmental Protection Specialist, FAA Office of Community and Environment, 5/1/96.

Survey response from airport, 6/6/95.



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Minneapolis- St. Paul International Airport

St. Paul, Minnesota

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Minneapolis- St. Paul International, Minnesota
Airport Number	13
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	Lindbergh Terminal MSP
City	St. Paul
State	MN

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Zip Code	55111
Phone Number	(612) 726-5555
Fax Number	(612) 726-5527
Public or Private Management	public
Commercial Operations	374,239
General Aviation Operations	65,195
Number of Runways	3
Length of Runways (Feet)	8,256; 8,200; 12,000
Square Mileage of Airport	4
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	private car 74%; commercial car 25%; mass transit 1%
Noise Office	yes
Noise Office's Phone Number	(612) 726-9411
Noise Officer's Name	Roy Fuhrmann

Average Noise Complaints Per Month	700-2,000
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded on an automated hotline
Response Received	NR
Curfews/Noise Guidelines	engine run-ups prohibited between 11:00pm and 6:00am; preferential runway use 24 hours/day
Percentage of Stage 3 Flights	48%
Community Surrounding Airport	urban, industrial, commercial, agricultural, military, open space
65 dB DNL Population	30,720
Expansion Plans	2,700 foot runway extension currently under construction, extended runway should be open in the fall of 1996
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	a \$60 million program to acquire 400 homes adjacent to the airport is one-half complete; between 1,800-2,000 homes have been soundproofed since 1992
Most Recent Noise Exposure Map	no
Bodies of Water within Three Miles	many lakes, 2 rivers

Deice at Airport	yes
Deicing Treatment	EG and PG, salt, urea, liquid potassium acetate, sand; used deicing agents captured and stored in lined ponds, slowly released to publicly-owned treatment facility
Deicing Fluids Recycled	no
Stormwater Management	4 main drainage areas with storm sewers, oil containment basins, retention basins, settling basins, and treatment basins
Water Quality Studies at Airport	comparative study of aquatic effects of alternative deicing agents; also, the Minnesota Pollution Control Agency has done a water quality study of the Minnesota River

Sources

Deicing Communication, Coordination and Cooperation, presented by Tim Callister, Assistant Director of Airports/Operations, Minneapolis-St. Paul International Airport at a June 1995 American Association of Airport Executives (AAAE) conference.

FAA 5010 Database.

Final EIS for Proposed Runway Extension 4-22 at Minneapolis-St. Paul International Airport, prepared by U.S. Dept. of Transportation, FAA and Minnesota Dept. of Transportation.

Phone interview with Roy Fuhrmann, Supervisor, Aviation Noise Programs, 8/7/95.

Phone interview with Mark Ryan, Airport Planner, Minneapolis-St. Paul Metropolitan Airports Commission, 5/1/96.

Rand McNally Road Atlas: 66th Edition, 1990.

Record of Approval of Part 150, Minneapolis-St. Paul International Airport, 5/2/90.

Record of Approval of Part 150, Minneapolis-St. Paul International Airport, 5/25/94.

State Report 1993, Minneapolis- St. Paul International Airport, Metropolitan Airports Commission, Aviation Noise Program, prepared by Metropolitan Airports Commission, Minneapolis, 1993.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Cyril E. King Airport

St. Thomas, Virgin Islands

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Cyril E. King, U.S. Virgin Islands
Airport Number	93
Date of Response	5/11/95
Respondent	Gregory Goodwin
Respondent's Title	Airport Operations Supervisor
Address	P.O. Box 1707
City	St. Thomas
State	VI

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Zip Code	00802
Phone Number	(809) 774-5100
Fax Number	(809) 774-5594
Public or Private Management	public
Commercial Operations	102,244
General Aviation Operations	19,598
Number of Runways	1
Length of Runways (Feet)	7,000
Square Mileage of Airport	0.44
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 30%; commercial car 55%; mass transit 15%
Noise Office	no
Noise Office's Phone Number	n/a
Noise Officer's Name	n/a

Average Noise Complaints Per Month	unanswered
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	n/a
Noise Complaints Recorded	n/a
Response Received	unanswered
Curfews/Noise Guidelines	terminal building closed from 11:00pm to 6:30am
Percentage of Stage 3 Flights	97%
Community Surrounding Airport	urban, suburban, commercial
65 dB DNL Population	10,000
Expansion Plans	none
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	1992
Bodies of Water within Three Miles	ocean, bay, reservoir

Deice at Airport	no
Deicing Treatment	n/a
Deicing Fluids Recycled	n/a
Stormwater Management	system in place
Water Quality Studies at Airport	studies conducted by airport

Sources

FAA 5010 Database.

Survey response from airport, 5/11/95.



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Tampa International

Tampa, Florida

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Tampa International, Florida
Airport Number	29
Date of Response	n/a
Respondent	NON-RESPONDENT
Respondent's Title	n/a
Address	P.O. Box 22287
City	Tampa
State	FL

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Zip Code	33622
Phone Number	(813) 870-8700
Fax Number	(813) 875-6670
Public or Private Management	public
Commercial Operations	118,911
General Aviation Operations	48,591
Number of Runways	3
Length of Runways (Feet)	6,998; 8,300; 11,002
Square Mileage of Airport	5.4
Mass Transit Available During All Hours of Airport Operation	NR
Transportation Useage To and From Airport, by Percentage	NR
Noise Office	no official noise office
Noise Office's Phone Number	(813) 870-8700
Noise Officer's Name	Brian Rumbell handles calls

Average Noise Complaints Per Month	1-5
Airport Gathers Noise Data	n/a
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: standard form is filled out
Response Received	yes
Curfews/Noise Guidelines	airport's 150 Plan called for the use of 1) designated areas for engine run-ups between 11:00pm and 6:00am, 2) southerly, preferential flight paths whenever possible, and 3) voluntary compliance with Air Transport Association recommended noise abatement arrival procedures
Percentage of Stage 3 Flights	NR
Community Surrounding Airport	suburban, commercial
65 dB DNL Population	14,200
Expansion Plans	new runway planned for use in 2000
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	airport coordinates with Hillsboro County to ensure compatible land development near the airport
Most Recent Noise Exposure Map	1985

Bodies of Water within Three Miles	Old Tampa Bay
Deice at Airport	NR
Deicing Treatment	NR
Deicing Fluids Recycled	NR
Stormwater Management	NR
Water Quality Studies at Airport	NR

Sources

FAA 5010 Database.

Phone interview with Nadine Jones, Director of Inter-Agency Programs, Tampa International Airport, 8/7/95.

Phone interview with R. Mueller, Director of Planning, August, 1995.

Phone interview with Brian Rumbell, Tampa International Airport, 3/20/96.

Rand McNally Road Atlas: 66th Edition, 1990.

Record of Approval of Part 150, Tampa International Airport, 7/15/87.

Tampa International Airport Compatibility Study FAR Part 150 Submittals, prepared by Howard, Needles, Tammen & Bergendoff, 6/9/86.

U.S. Department of Transportation, Federal Aviation Administration, *1994 Aviation Capacity Enhancement Plan*, Washington DC, March, 1995.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Tulsa International

Tulsa, Oklahoma

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Airport Name	Tulsa International, Oklahoma
Airport Number	64
Date of Response	5/2/95
Respondent	Kinney Baxter
Respondent's Title	Deputy Airport Director
Address	7777 E. Apache
City	Tulsa
State	OK

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Zip Code	74155
Phone Number	(918) 838-5000
Fax Number	(918) 838-5119
Public or Private Management	public
Commercial Operations	40,000
General Aviation Operations	160,000
Number of Runways	3
Length of Runways (Feet)	10,000; 7,700; 6,100
Square Mileage of Airport	6.5
Mass Transit Available During All Hours of Airport Operation	none
Transportation Useage To and From Airport, by Percentage	private car 80%; commercial car 20%
Noise Office	yes
Noise Office's Phone Number	(918) 838-5000
Noise Officer's Name	Fred Greco

Average Noise Complaints Per Month	10-30
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	no
Response Received	no
Curfews/Noise Guidelines	none
Percentage of Stage 3 Flights	70%
Community Surrounding Airport	unanswered
65 dB DNL Population	2,500
Expansion Plans	new runway planned for fiscal year 2006
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	buyout of 700+ homes around the airport
Most Recent Noise Exposure Map	1988
Bodies of Water within Three Miles	reservoir, river, stream

Deice at Airport	yes
Deicing Treatment	EG and PG; no capture
Deicing Fluids Recycled	no
Stormwater Management	plan is being developed
Water Quality Studies at Airport	studies conducted by airport

Sources

Survey response from airport, 5/2/95.



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Washington Dulles International

Washington, Virginia

The following data was collected in the 1995 National Airport Survey conducted by the Natural Resources Defense Council. Sources are listed at the bottom of this page.

Airport Name	Washington Dulles International, Virginia
Airport Number	28
Date of Response	6/30/95
Respondent	James A. Wilding
Respondent's Title	General Manager
Address	P.O. Box 17045
City	Washington
State	VA

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Zip Code	20041
Phone Number	(703) 661-2710
Fax Number	(703) 417-8371
Public or Private Management	public
Commercial Operations	215,504
General Aviation Operations	54,105
Number of Runways	3
Length of Runways (Feet)	11,501; 11,501; 10,501
Square Mileage of Airport	17.0
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	unanswered
Noise Office	yes
Noise Office's Phone Number	(703) 661-8555
Noise Officer's Name	Neal Phillips

Average Noise Complaints Per Month	12
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	yes
Curfews/Noise Guidelines	no formal noise abatement procedures; developing software that will match complaints with specific flights
Percentage of Stage 3 Flights	60-65%
Community Surrounding Airport	suburban, industrial, commercial, agricultural
65 dB DNL Population	98
Expansion Plans	eventually one more north/south and one more east/west runway
Part 150 Plan	approved
Buyouts/Other Noise Mitigation Strategies	residential development prohibited within a 65 dB DNL contour line based on the full utilization of the airport's capacities (this would represent more than a doubling of the current number of operations); noise disclosures, soundproofing and avigation easements required for new residential construction in many adjacent areas within the 60-65 dB DNL; Loudon County requires disclosure statements for all new homes built within one mile of the 60 dB DNL
Most Recent Noise Exposure Map	unanswered

Bodies of Water within Three Miles	ponds, streams
Deice at Airport	yes
Deicing Treatment	investigating alternative deicing agents
Deicing Fluids Recycled	unanswered
Stormwater Management	unanswered
Water Quality Studies at Airport	unanswered

Sources

FAA 5010 Database.

FAR Part 150 Noise Compatibility Program, Washington Dulles International Airport, prepared by Peat, Marmick, Mitchell & Col, Airport Consulting Services, San Francisco, January 1985.

Letter from James A. Wilding, General Manager of Metropolitan Washington Airports Authority, 6/30/95.

Phone interview with Pam Bower, Principal Planner, Loudon County Planning Dept. 7/31/95.

Phone interview with Neal Phillips, Noise Abatement Officer, Dulles International Airport, 8/3/95.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.



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Washington National

Washington, Virginia

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Airport Name	Washington National, Virginia
Airport Number	24
Date of Response	6/30/95
Respondent	James A. Wilding
Respondent's Title	General Manager
Address	Washington National Airport
City	Washington
State	VA

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Zip Code	20001
Phone Number	(703) 417-8003
Fax Number	(703) 417-8002
Public or Private Management	public
Commercial Operations	260,512
General Aviation Operations	55,248
Number of Runways	3
Length of Runways (Feet)	4,506; 5,189; 6,869
Square Mileage of Airport	1.5
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	unanswered
Noise Office	yes
Noise Office's Phone Number	(703) 417-8745
Noise Officer's Name	Neal Phillips

Average Noise Complaints Per Month	225
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: complaints recorded on airport operations log
Response Received	yes
Curfews/Noise Guidelines	nighttime noise limits prohibit all Stage 2 and many Stage 3 operations; noise abatement procedures control arrivals and departures up to ten miles away from the airport; airport is installing radar that will allow it to correlate noise events with specific aircraft
Percentage of Stage 3 Flights	72%
Community Surrounding Airport	urban, suburban, industrial, commercial
65 dB DNL Population	19,000
Expansion Plans	unanswered
Part 150 Plan	yes: complete; pending approval
Buyouts/Other Noise Mitigation Strategies	new construction within the 65 dB DNL must meet acoustical standards
Most Recent Noise Exposure Map	1989

Bodies of Water within Three Miles	Potomac River, stream
Deice at Airport	yes
Deicing Treatment	investigating alternative deicing agents
Deicing Fluids Recycled	unanswered
Stormwater Management	unanswered
Water Quality Studies at Airport	unanswered

Sources

FAA 5010 Database.

Letter from James A. Wilding, General Manager of Metropolitan Washington Airports Authority, 6/30/95.

Phone interview with Neal Phillips, Noise Abatement Officer, National Airport, 8/3/95.

Rand McNally Road Atlas: 66th Edition, 1990.

U.S. Department of Transportation, Federal Aviation Administration, *FAA Air Traffic Activity*, Washington DC, Fiscal Year 1993.

Washington National Airport: Noise Compatibility Study, prepared by Howard, Needles, Tammen & Bergendoff, August, 1990-revised December 1993.



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Westchester County

White Plains, New York

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Airport Name	Westchester County, New York
Airport Number	107
Date of Response	7/14/95
Respondent	Shelley LaRose
Respondent's Title	Noise Abatement Officer
Address	Westchester County Airport
City	White Plains
State	NY

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Zip Code	10604
Phone Number	(914) 285-4862
Fax Number	(914) 285-3980
Public or Private Management	public
Commercial Operations	44,412
General Aviation Operations	156,076
Number of Runways	2
Length of Runways (Feet)	6,548; 4,457
Square Mileage of Airport	1.09
Mass Transit Available During All Hours of Airport Operation	yes
Transportation Useage To and From Airport, by Percentage	unknown
Noise Office	yes
Noise Office's Phone Number	(914) 285-4862
Noise Officer's Name	Shelley LaRose

Average Noise Complaints Per Month	509
Airport Gathers Noise Data	yes
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes: recorded on a tape recorder
Response Received	personal visits; meetings; personal calls; written responses
Curfews/Noise Guidelines	voluntary restraint from flying; recommended noise mitigation measures available to pilots
Percentage of Stage 3 Flights	65.6% of air carrier flights, 100% of commuter flights
Community Surrounding Airport	suburban
65 dB DNL Population	15 homes
Expansion Plans	none
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	unanswered
Bodies of Water within Three Miles	reservoir, stream, wetlands

Deice at Airport	yes
Deicing Treatment	EG and PG; captured in sanitary sewer system; disposed off-site
Deicing Fluids Recycled	no
Stormwater Management	detention basins
Water Quality Studies at Airport	wetlands have been delineated; stormwater sampling under SPDES permit

Sources

FAA 5010 Database.

Phone interview with Shelley LaRose, Noise Abatement Officer, Westchester County Airport, 6/96.

Survey response from airport, 7/14/95.



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Bradley International

Windsor Locks, Connecticut

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Airport Name	Bradley International, Connecticut
Airport Number	55
Date of Response	5/25/95
Respondent	William F. Palmer
Respondent's Title	Assistant Airport Administrator
Address	Terminal B
City	Windsor Locks
State	CT

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Zip Code	06096
Phone Number	(203) 292-2000
Fax Number	(203) 627-3594
Public or Private Management	public
Commercial Operations	110,160
General Aviation Operations	46,942
Number of Runways	3
Length of Runways (Feet)	9,501; 6,847; 5,141
Square Mileage of Airport	3.8
Mass Transit Available During All Hours of Airport Operation	no
Transportation Useage To and From Airport, by Percentage	private car 44.6%; commercial car 44.8%; mass transit 10.6%
Noise Office	yes
Noise Office's Phone Number	(203) 627-3001
Noise Officer's Name	John Spillane

Average Noise Complaints Per Month	6
Airport Gathers Noise Data	no
Airport Takes Noise Complaints	yes
Noise Complaints Recorded	yes
Response Received	if requested
Curfews/Noise Guidelines	no training between 11:00pm and 7:00am Monday through Saturday, no training between 11:00pm Saturday and noon on Sunday
Percentage of Stage 3 Flights	63.16%
Community Surrounding Airport	combination
65 dB DNL Population	unanswered
Expansion Plans	still in the planning phase
Part 150 Plan	not participating
Buyouts/Other Noise Mitigation Strategies	none
Most Recent Noise Exposure Map	unanswered
Bodies of Water within Three Miles	river, stream

Deice at Airport	yes
Deicing Treatment	EG and PG; some of the runoff is sent to local sewage plant for treatment; EG collection in central deicing areas with vacuum trucks
Deicing Fluids Recycled	no
Stormwater Management	in the process of developing a long-term plan
Water Quality Studies at Airport	studies conducted by airport

Sources

Survey response from airport, 5/25/95.



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List of 1995 National Airport Survey Recipients and Respondents

LOCATION	AIRPORT	NUMBER (RANKING)	RESPONDED (X)
Agana, GU	Agana NAS	70	---
Albany, NY	Albany County	77	X
Albuquerque, NM	Albuquerque International	49	X
Allentown, PA	Lehigh Valley International	111	---
Amarillo, TX	Amarillo International	112	X
Anchorage, AK	Anchorage International	59	---
Atlanta, GA	William B. Hartsfield International	4	---
Atlantic City, NJ	Atlantic City International	121	---
Austin, TX	Robert Mueller Municipal	56	X

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Baltimore, MD	Baltimore-Washington International	31	---
Bangor, ME	Bangor International	82	---
Baton Rouge, LA	Baton Rouge Metropolitan	117	---
Birmingham, AL	Birmingham	79	---
Boise, ID	Boise Air Terminal	85	---
Boston, MA	Boston Logan International	12	X
Buffalo, NY	Greater Buffalo International	62	X
Burbank, CA	Burbank-Glendale-Pasadena	58	---
Burlington, VT	Burlington International	120	---
Cedar Rapids, IA	Cedar Rapids Municipal	123	X
Charleston, SC	Charleston AFB/International	91	---
Charlotte, NC	Charlotte/Douglas International	22	X
Chicago, IL	Chicago Midway	45	X
Chicago, IL	Chicago O'Hare International	1	X
Cincinnati, OH	Cincinnati/Northern Kentucky International	26	---
Cleveland, OH	Cleveland-Hopkins International	34	---
Colorado Springs, CO	City of Colorado Springs Municipal	86	X
Columbia, SC	Columbia Metropolitan	104	---
Columbus, OH	Port Columbus	51	---
Corpus Christi, TX	Corpus Christi International	106	---

Costa Mesa, CA	John Wayne Airport- Orange County	46	---
Dallas, TX	Dallas Love Field	43	X
Dallas-Ft. Worth, TX	Dallas/Ft. Worth International	2	---
Dayton, OH	James M. Cox Dayton International	80	---
Daytona, FL	Daytona Beach Regional	119	---
Denver, CO	Denver International	6	X
Des Moines, IA	Des Moines International	88	---
Detroit, MI	Detroit Metropolitan Wayne County	10	---
El Paso, TX	El Paso International	61	---
Eugene, OR	Mahlon Sweet Field	125	---
Fresno, CA	Fresno Air Terminal	108	X
Ft. Lauderdale, FL	Fort Lauderdale International	32	X
Ft. Meyers, FL	Southwest Florida International	60	X
Grand Canyon, AZ	Grand Canyon National Park	103	X
Grand Rapids, MI	Kent County	87	---
Greensboro, NC	Piedmont Triad International	78	---
Greer, SC	Greenville-Spartanburg	98	---
Harrisburg, PA	Harrisburg International	89	---
Hilo, HI	Hilo International	90	---
Honolulu, HI	Honolulu International	14	---

Houston, TX	Houston Intercontinental	19	X
Houston, TX	William P. Hobby Houston	37	X
Huntsville, AL	Huntsville International	109	X
Indianapolis, IN	Indianapolis International	47	---
Jackson, MS	Jackson International	116	---
Jacksonville, FL	Jacksonville International	65	X
Kahului, HI	Kahului International	53	---
Kailua/Kona, HI	Keahole-Kona International	75	---
Kansas City, MO	Kansas City International	38	---
Knoxville, TN	McGhee Tyson	92	X
Las Vegas, NV	McCarran International	15	---
Lexington, KY	Blue Grass	110	X
Lihue, HI	Lihue International	84	---
Little Rock, AR	Adams Field	73	---
Los Angeles, CA	Los Angeles International	3	X
Louisville, KY	Standiford Field	68	---
Lubbock, TX	Lubbock International	94	---
Madison, WI	Dane County Regional	100	X
Manchester, NH	Manchester	122	---
Marlingen, TX	Rio Grand Valley	102	---
Memphis, TN	Memphis International	39	---
Miami, FL	Miami International	7	X

Midland, TX	Midland International	101	X
Milwaukee, WI	General Mitchell International	57	---
Nashville, TN	Nashville International	33	---
New Orleans, LA	New Orleans International	42	X
New York, NY	John F. Kennedy International	8	---
New York, NY	LaGuardia International	18	---
Newark, NJ	Newark International	9	---
Newburgh, NY	Stewart International	124	---
Norfolk, VA	Norfolk International	66	---
Oakland, CA	Metropolitan Oakland International	40	---
Oklahoma City, OK	Will Rogers World	63	X
Omaha, NE	Eppley Airfield	76	---
Ontario, CA	Ontario International	44	X
Orlando, FL	Orlando International	16	X
Palm Beach, FL	Palm Beach International	52	---
Palm Springs, CA	Palm Springs Regional	115	---
Pensacola, FL	Pensacola Regional	114	---
Philadelphia, PA	Philadelphia International	23	---
Phoenix, AZ	Phoenix Sky Harbor International	11	---
Pittsburgh, PA	Pittsburgh International	21	X
Portland, ME	Portland International Jetport	97	---

Portland, OR	Portland International	36	---
Providence, RI	Theodore Francis Green	72	---
Raleigh-Durham, NC	Raleigh-Durham International	30	---
Reno, NV	Reno Cannon International	54	---
Richmond, VA	Richmond International	81	---
Rochester, NY	Greater Rochester International	69	---
Ronkonkoma, NY	Long Island Mac Arthur	99	X
Sacramento, CA	Sacramento Metropolitan	50	---
Saipan, CM	Saipan International	96	X
Salt Lake City, UT	Salt Lake City International	25	---
San Antonio, TX	San Antonio International	48	X
San Diego, CA	San Diego International	27	---
San Francisco, CA	San Francisco International	5	X
San Jose, CA	San Jose International	41	---
San Juan, PR	Luis Munoz Marin International	35	X
Sarasota, FL	Sarasota/Bradenton International	83	X
Savannah, GA	Savannah International	105	---
Seattle, WA	Seattle-Tacoma International	20	---
South Bend, IN	Michiana Regional Transportation	118	X
Spokane, WA	Spokane International	71	---

St. Louis, MO	Lambert-St. Louis International	17	X
St. Paul, MN	Minneapolis- St. Paul International	13	---
St. Thomas, VI	Cyril E. King	93	X
Syracuse, NY	Syracuse Hancock International	74	---
Tallahassee, FL	Tallahassee Regional	113	---
Tampa, FL	Tampa International	29	---
Tucson, AZ	Tucson International	67	---
Tulsa, OK	Tulsa International	64	X
Washington, VA	Washington Dulles International	28	X
Washington, VA	Washington National	24	X
White Plains, NY	Westchester County	107	X
Windsor Locks, CT	Bradley International	55	X
Wichita, KS	Wichita Mid-Continent	95	---