LAX TOWN HALL MEETING

Monday, December 1, 2014
La Tijera United Methodist Church

Air Pollution Impacts

By Martin Rubin, Director
Concerned Residents Against Airport Pollution

www.jetairpollution.com

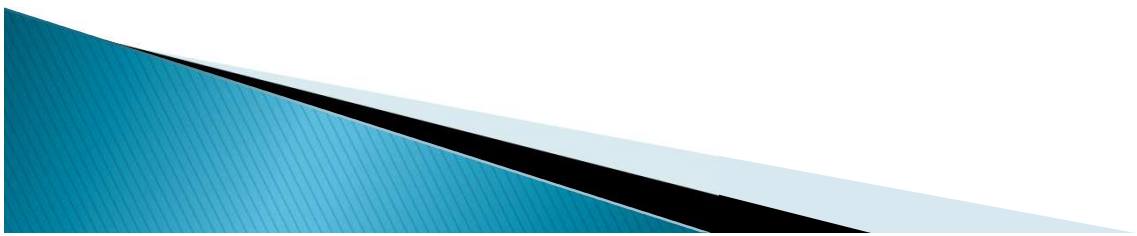
Planes line up on the north runway waiting to take off at Los Angeles International Airport. Airlines generate about 3% of carbon dioxide emissions in the U.S., according to an environmental group.

(Carolyn Cole / The Los Angeles Times)

SANTA MONICA MUNICIPAL AIRPORT

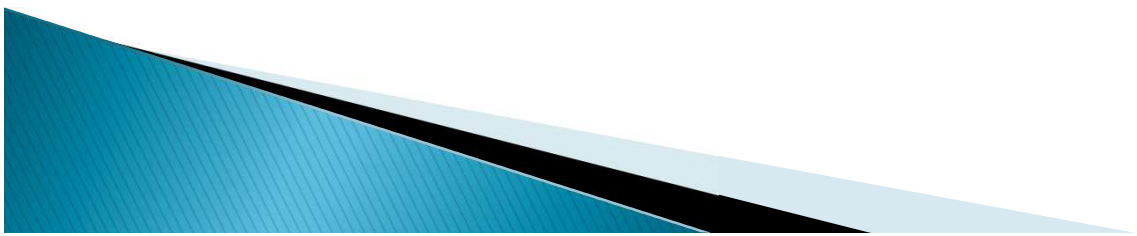
A REPORT ON THE GENERATION AND DOWNWIND EXTENT OF EMISSIONS GENERATED FROM AIRCRAFT AND GROUND SUPPORT OPERATIONS

PREPARED BY: BILL PIAZZA
LOS ANGELES UNIFIED SCHOOL DISTRICT
ENVIRONMENTAL HEALTH AND SAFETY BRANCH
JUNE, 1999



"...a health risk assessment conducted in 1993 for the U.S. EPA reported that aircraft engines are responsible for approximately 10.5 percent of the cancer cases within a defined geographic location (approximately 16 square miles) surrounding Chicago's Midway Airport."

"It is important to note that although risk estimates generally identify upper bound values, assessments may potentially underestimate risk. Such would be the case where an assessment is based on the quantification of only a few compounds. Although a particular facility or source may emit a variety of pollutants, the assessment may be limited by the availability of emission factors or published toxicity data for a limited suite of compounds regardless of the potential for those identified, yet exclude, to contribute to one's actual risk."



JET FUEL TOXICOLOGY EXPERT
Mark Witten, Ph.D.

Former Professor of Pediatrics and Director of the Lung Injury Laboratory at the University of Arizona College of Medicine from 1990-2010.

Sponsored by the U.S. Air Force Office of Scientific Research to study the effect(s) of jet fuel exposure on the lungs.

Dr. Witten statement

- “There are two thousand different constituents in uncombusted jet fuel, including benzene and naphthalene (the ingredient in moth balls that gives them their smell) that have been linked to cancer. The combustion products of any burning substance, i.e., cigarette smoke, are filled with a huge number of oxygen radicals that are well known to be very harmful to living tissue. For example, it is estimated that one exhaled breath of cigarette smoke contains **one million** oxygen radicals. I cannot imagine what an idling jet engine would be emitting every second in terms of oxygen radicals; however, my best estimate would be in the **hundreds of billions** of oxygen radicals.”

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Emissions from an International Airport Increase Particle Number Concentrations 4-fold at 10 km Downwind

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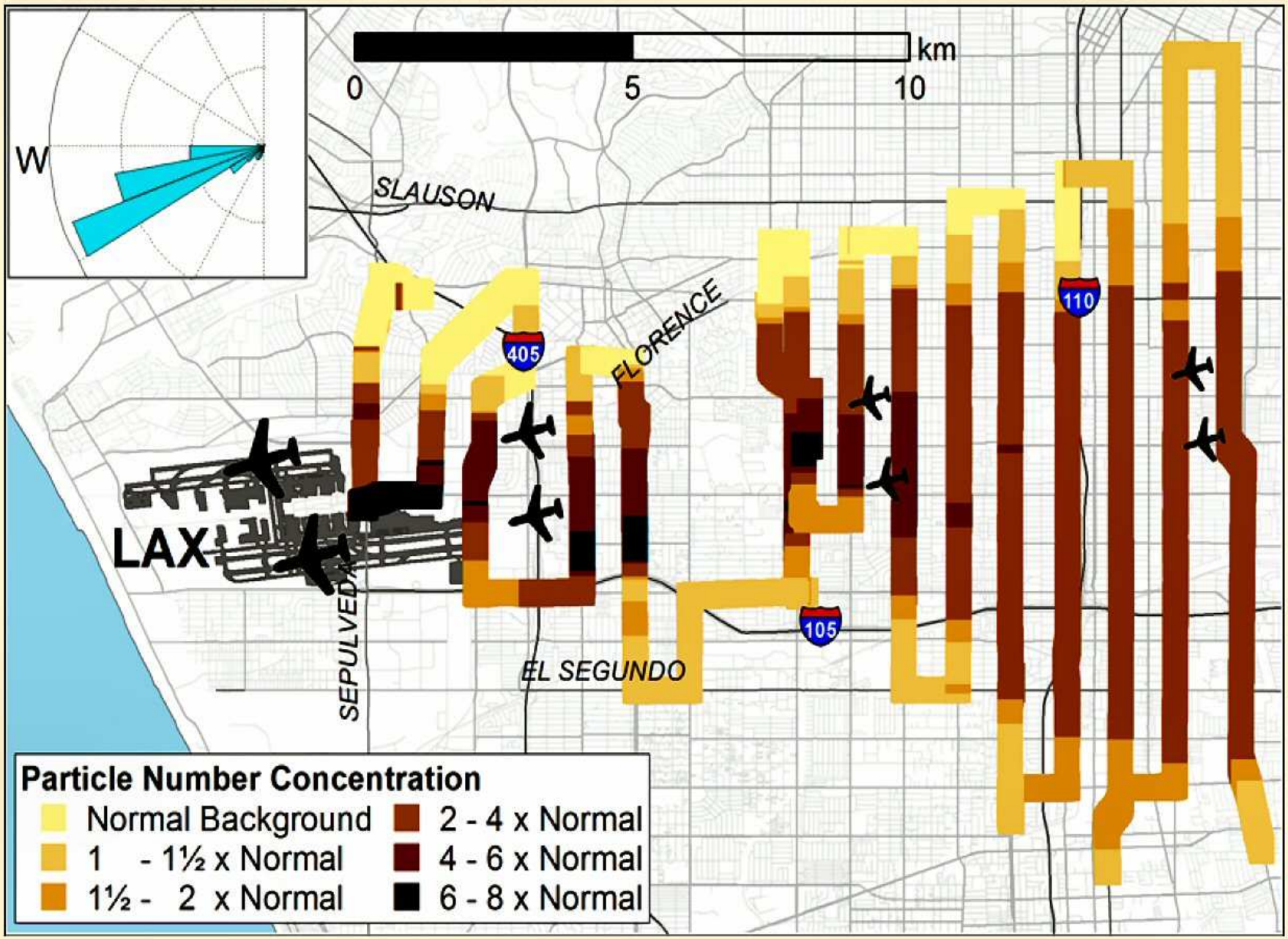
EXCERPTS:

“We measured the spatial pattern of particle number (PN) concentrations downwind from LAX with an instrumented vehicle that enabled us to cover larger areas than allowed by traditional stationary measurements. LAX emissions adversely impacted air quality much farther than reported in previous airport studies.”

“The freeway length that would cause an impact equivalent to that measured in this study was estimated to be 280–790 km. (174–490 miles). The total freeway length in Los Angeles is 1500 km. (932 miles).These results suggest that airport emissions are a major source of PN in Los Angeles that are of the same magnitude as the entire freeway network. They also indicate that the air quality impact areas of major airports may have been seriously underestimated.”


W
0
5
10
km
SLAUSON
405
FLORENCE
110
LAX
SEPULVEDA
105
EL SEGUNDO
Particle Number Concentration
Normal Background
1 - 1½ x Normal
1½ - 2 x Normal
2 - 4 x Normal
4 - 6 x Normal
6 - 8 x Normal

Summary

Air quality for neighbors downwind from LAX is greatly impacted by LAX aircraft operations.

Certainly, if you can smell the jet emissions, you are inhaling a soup of chemicals that include toxic chemicals.

Back in 1993, health risks from Chicago's Midway Airport's aircraft operations.

The probability is health risks also exist around LAX.