

# A Killer Air: Delineating Disaster in Mexico City

#### Ela Miljkovic

#### Summary

Mexico City is prone to extreme environmental risks. Such hazards shape the lives of the valley's inhabitants. Yet, since the 1960s, its residents have grappled with changing conceptions of urban-environmental risk, particularly related to the air they breathed. Three decades of dedicated urban-industrial growth, combined with a geography hostile to the free flow of air into and out of the valley, resulted in a new disaster: a killer air. Defining this air as a danger to the city's prosperity and the lives of its inhabitants was a deeply political and power-laden process, marked by economic, rather than health, concerns.

Disaster frequently confronts residents of Mexico City. Earthquakes threaten the indiscriminate destruction of structures both precolonial and new, flash floods tease a waterlogged future reminiscent of the city's lacustrine past, ashfall from volcanic eruptions brewing in close proximity carries the potential to cause bodily harm. An inescapable component of the lived experience in the Valley of Mexico, these environmental disturbances are also inscribed in the city's cultural heritage: natural disasters, for instance, figure prominently in Mexica creation mythologies and tales of ferocious floods permeate the chronicles of Spanish *conquistadores*.



A painting by Frey Diego Durán depicting a ritual to appease the gods for flooding Tenochtitlán, circa 1500s.

Painting by Frey Diego Durán, c. 1500s. Accessed via Wikimedia on 12 June 2019. Click <mark>here</mark> to view source.

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Not every environmental risk in Mexico City enjoys such high visibility in the historical record or in the literal

Miljkovic, Ela. "A Killer Air: Delineating Disaster in Mexico City." Environment & Society Portal, *Arcadia* (Autumn 2019), no. 45. Rachel Carson Center for Environment and Society. doi.org/10.5282/rcc/8803. **Print date:** 20 July 2025 17:46:36 sense, however. During the last third of the twentieth century, Mexicans became uncomfortably familiar with a newly brewing crisis: a thick air pollution silently unfurling over the sprawling metropolis. To be sure, conceptions of the air as "unhealthy" were not new, as Matthew Vitz's account of early-twentieth-century *tolvaneras*, or dust storms, illustrates. Colonial-era grievances about various odors wafting through the air reveal an even broader chronology for the city's problematic air quality. Yet, the association of dirty air as "disastrous" constituted a break from previous definitions. Rendering this phenomenon a disaster was a complex and political process, further complicated by the fact that, unlike the more conspicuous disasters afflicting the city, air pollution was rather elusive. Even as evidence mounted of its deleterious effects on human health by the 1970s, the government lagged in implementing control measures. Delineating the capital's air as a public health hazard carried significant implications for the realization of the city's future as an economic and global powerhouse because it revealed the inherent unsustainability of the processes driving its growth.



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Photograph by Harold Mayer, 1966.

Courtesy of the American Geographical Society Library, University of Wisconsin-Milwaukee Libraries. Click here to view source.

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Photograph of Mexico City's busy Avenida Juárez, August 1966.

From the 1940s to the 1970s, industrialization, population growth, and an automobile revolution collectively transformed the urban landscape, leading to the seemingly sudden onslaught of unclean air in the metropolitan

area by mid-century. The deadly fogs, caused by the mass burning of coal, that long plagued some European and North American urban centers were absent in Mexico City due to, as John R. McNeill explains, its reliance on biomass, rather than coal, and its relatively later industrialization. Mexico City began its intense governmentbacked industrialization in the 1940s, culminating in the concentration of 33,185 industries within city limits by the mid-1970s, according to economist Gustavo Garza Villareal. This period also saw the city's population swell from 1.5 million to 9 million, and a five-fold increase in the number of cars traversing the city's roads. Mexico City's unique geography, particularly its positioning atop a barren lakebed located at the bottom of a valley ringed by mountains that soar to 16,000 feet, proved incompatible with this spatial and demographic explosion, and served only to trap vehicle exhaust and chemical emissions near the surface.

Economic boom overshadowed the myriad environmental ramifications encoded within this aggressive developmentalism. Notably, anxieties surrounding economic productivity became the language through which nascent discourse on the deterioration of the city's atmosphere first emerged. Early newspaper coverage of Mexico City's *esmog*, a word adopted into the common lexicon by 1960, painted the capital's dirty air as a nuisance rather than a serious health concern. Popular dailies maintained that air saturated with ash, smoke, and dirt could erode metal and damage property, threatening the day-to-day operations that fueled the city.



This 1985 astronaut photography of Earth captures a thenroutinely hazy day in Mexico City—note Nabor Carrillo Lake, a rectangular water reservoir visible in the center of the image.

Photography by NASA, November 1985. Courtesy of Earth Science and Remote Sensing Unit, NASA Johnson Space Center. Click **here** to view source.

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NASA astronauts captured this unprecedentedly clear day in Mexico City, March 1994, believing that the reduction of air pollution was due to the enforcement of strict regulations on vehicle and industrial emissions. Compare Nabor Carrillo Lake on the left with that of the previous image.

Photograph by NASA, March 1994. Courtesy of NASA Image and Video Library, NASA Johnson Space Center. Click here to view source.

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Indeed, journalists played integral roles in forecasting a city choked by its own air and arrested in development, but they were not the only actors to shape the dialogue. Businessmen involved in the tourism industry also expressed concerns that highlighted the augmented economic burden caused by air pollution when they complained that tourists were bypassing Mexico City for coastal areas like Acapulco and its ostensibly uncontaminated air. Still others, like the leaders of civic groups such as the National Association Against Air and Water Pollution imbued Mexico City's persistent air pollution problem with more urgency. They routinely held open forums throughout the late 1960s to discuss Mexico City's situation, from improving Mexico's gasoline quality to proposing the creation of devices to eliminate motor vehicle exhaust fumes. Such symposiums democratized information about the city's air, ultimately forcing the heretofore silent government into action via the promulgation of the nation's, and Latin America's, first antipollution legislation in 1971.



Map showcasing the "bowl-like" geography Federal District in 1941 (urban of Mexico City, surrounded by mountain concentration appears in golden color). ranges on nearly every side. This natural feature traps toxicants close to the surface.

Accessed via Wikimedia on 12 June 2019. Click here to view source. Click **here** to view source.



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Federal District from 1980 to 1989 (urban expansion denoted by golden color).

Map by Sarumo74, 2011. Accessed via Wikimedia on 12 June 2019. Click here to view source.

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On paper, the law aimed to make the city's air a subject of public policy by enforcing regulations on industrial emissions output, supporting scientific research, and educating the public, but when, in 1972, for example, doctors from the General Hospital of Mexico linked dirty air to declining health after studying compromised respiratory tracts and mucosal linings, they lacked an official channel to help broadcast their findings. The overall lukewarm enforcement of this law reflected the political and economic elite's belief in the rewards of continued industrial development and progress.

While an intangible force, air pollution is not undetectable. Going into the 1990s, Mexico had passed its third clean-air law, but the capital's air pollution attained an unparalleled visibility on individual and global scales. Ordinary residents were witnesses to shocking sights like pigeons falling dead mid-flight while astronaut photography captured Mexico City's pollution from space. Only when the government formally recognized

these disastrous effects by implementing programs like the no-driving day initiative in 1989, reducing leaded gasoline production in the early 1990s, and closing noncompliant industrial plants did Mexicans finally find some breathing room.

## Arcadia Collection:

## Terms of Disaster

#### Further readings:

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## **Related links:**

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- Real-Time Air Quality Index Visual Map https://aqicn.org/map/mexicocity/

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Ela Miljkovic is a doctoral candidate in Latin American history at the University of Houston, Houston, Texas, USA, where she studies the historical development of air pollution in Mexico City, a project rooted in and nurtured by a deep curiosity about human-environment interactions. She is also trained in public history and has written about the power of place in historic Houston neighborhoods undergoing gentrification. Ela also holds a Bachelor of Arts in Spanish and Latin American Studies from The College of Idaho.