

ILLINOIS WAREHOUSE BOOM

Tracing the growth of mega-warehouses and their health impacts

BACKGROUND & CONTEXT

Just-in-time delivery has fueled an explosion of warehouses and truck trips in Illinois. More warehouses are now located near homes, schools and community centers than ever before. A single warehouse may generate hundreds of truck trips every day. While trucks are central in the goods supply chain, they also contribute to harmful air pollution, noise pollution and traffic and safety concerns. Goods transport is the fastest-growing driver of greenhouse gas emissions and the largest absolute contributor in many regions.¹

Due to racist legacies of redlining and other discriminatory policies, new and existing distribution facilities and the roads that serve them are disproportionately located near communities of



An aerial view of Chicago's Little Village neighborhood shows a warehouse alongside a residential area. Photo credit: Little Village Environmental Justice Organization.

color and working class and low-income communities. And while these same warehouses often employ individuals living nearby, many residents living near warehouses have been sounding the alarm for some time.²

KEY FINDINGS

To better understand the disproportionate burden associated with warehouses in Illinois, Environmental Defense Fund deployed a peer-reviewed framework called Proximity Mapping. Across Illinois we found:

- **2,401 leased warehouses that are at least 100,000 square feet.** This represents an unknown fraction of all warehouses, because data does not currently exist for warehouses that are owned or operated in other ways.
- At least 525,000 truck trips per day service these warehouses.
- 2 million people live within a half mile of a warehouse. 127,000 are under age five and 251,100 are over age 64.
- **Hispanic/Latino populations** are 195% more likely to live within half a mile of a warehouse than would be expected, based on statewide statistics. This population composes 17.1% of the total population but makes up 33% of warehouse neighbors.
- Black populations are 137% more likely to live within half a mile of a warehouse than would be expected, based on statewide statistics. This population composes 15.3% of the total population but makes up 21% of warehouse neighbors.
- American Indian and Alaska Natives are 126% more likely to live within half a mile of a warehouse than statewide statistics would project. This population composes 0.79% of the total population and 0.99% of warehouse neighbors.
- Low-income populations are 125% more likely to live within half a mile of a warehouse than would be expected, based on statewide statistics. This population composes 12.2% of the total population but makes up 15% of warehouse neighbors.
- Asian populations are 117% more likely to live within half a mile of a warehouse than expected, based on statewide statistics. This population composes 6.3% of the total population but makes up 7.3% of warehouse neighbors.

The results from the Illinois analysis mirror findings in 10 states where EDF previously conducted Proximity Mapping.³ In those states, some 15 million people live within a half mile of a leased warehouse of at least 100,000 square feet. More than 1 million of those are children under age five. No state distributed the risk from leased warehouses evenly. Black, Hispanic/Latino, Asian, American Indian and Alaska Native and low-income people bear the brunt of the risk from living close to leased warehouses. In some states, including Illinois, Massachusetts and Colorado, the concentration of Black or Hispanic/Latino residents around leased warehouses is double what would be expected given the state population.

A PUBLIC HEALTH THREAT FROM COAST TO COAST

EDF's warehouse analyses reflect a broader national trend. One in six U.S. residents lives within 300 feet of a major road, airport or railroad.⁴ Some 17,000 schools across the U.S. are located within approximately 800 feet of a heavily traveled road.⁵ A growing body of peer-reviewed research indicates that exposure to traffic-related air pollution increases the risk of childhood asthma.⁶ Asthma is a leading cause of missed school days, and research has linked it to diminished school performance.⁷

The burden of childhood asthma represents a severe health disparity in the United States: Across the country, 11% of children with family income less than \$35,000 have asthma, versus 6% of children with family income of \$75,000 or more.⁸ Black children are more than twice as likely as non-Hispanic white children to have asthma and are more than four times more likely to be hospitalized for asthma and eight times more likely to die from asthma.⁹ Pollution is one of several factors, along with other unequally distributed factors like healthcare access and psychological stressors, that cumulatively contribute to these disparities. Air pollution from trucks is also associated with increased health risks at other stages of life. It raises the risk of preterm birth, low birth weight, dementia, heart disease and stroke.^{10,11,12}

Diesel-fueled freight trucks and buses make up around 10% of the vehicles on U.S. roads, but they are responsible for 50% of the transportation sector's nitrogen oxides (NOx) emissions – primarily measured by NO₂ emissions.¹³ These vehicles also emit a series of other health-harming pollutants, including 57% of direct fine particulate matter ($PM_{2.5}$) from on-road vehicles, as well as volatile organic compounds, carbon monoxide and sulfur dioxide.¹⁴ In Illinois, the stats are similar: Diesel trucks and busses make up 7% of the on-road fleet but emit 67% of NOx and 59% of PM_{2.5}.

Diesel trucks emit serious pollution at start-up, while idling and while traveling at low speeds.¹⁵ Air pollution levels vary by proximity to truck traffic, and vulnerability to pollution exposure can vary greatly by race and age, with children and older adults at elevated risk, due to the unequal cumulative impacts of other health-harming factors from built, natural and social environments.¹⁶

METHODOLOGY

EDF's Proximity Mapping framework provides a new way to understand more about the communities living near various types of infrastructure to determine how the pollution-related risks are distributed.

This methodology combines data from the U.S. Census Bureau's American Community Survey five-year estimates at the census tract level with locations of leased "Warehouse" facilities from a private real estate database. The inequities visualized through this tool make it clear that the burdens associated with increased truck traffic are far from equally distributed.

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ILLINOIS WAREHOUSE IMPACTS

Across Illinois, EDF identified 2,401 leased warehouses that are at least 100,000 square feet in size, covering a collective 632 million square feet – a number that's grown 33% in the last decade and 72% in the last two decades (Figure 1). At least 525,000 daily truck trips service today's leased warehouses equal to or greater than 100,000 square feet.

The recent e-commerce boom in Illinois only exacerbates the pollution burden faced by many communities of color and low-income communities. At all levels, EDF found that leased warehouses tend to be disproportionately located in Black, Hispanic/Latino and low-income communities.

Warehouses are not only disproportionately located in these communities, but they also often employ local residents in low-wage, temporary, dangerous positions. In Illinois, Black and Hispanic/Latino workers account for 85% of temporary workers in factories and warehouses, while the state's overall workforce is 35% non-white.¹⁷ The combination of living and working in areas with high concentrations of harmful air pollution places an outsized health burden on these workers.

In Illinois, like the rest of the country, warehouse locations are shrouded in secrecy. While the Energy Information Agency maintains a database of information about polluting facilities like oil refineries, nothing similar exists for warehouse locations, making it difficult for communities and policymakers alike to learn the identities of owners and operators of these buildings. As a result, organizations must turn to private databases, which are expensive, limited in scope and have strict terms around the data that can be shared. Communities have no hope of getting access to key data.



Figure 1

In addition to the lack of transparency about warehouse locations, warehouses are unregulated and can be sited with no environmental review or public process. There is currently no mechanism to ensure warehouse compliance with the Illinois' Climate Action Plan – a roadmap for zero greenhouse gas emissions by 2050 – or the state's beneficial electrification and transportation pollution reduction goals under the Climate and Equitable Jobs Act.^{18,19}

AN UNEQUAL BURDEN: NITROGEN DIOXIDE (NO2)

Nitrogen dioxide (NO₂) pollution – one of the main pollutants released by diesel-burning trucks – contributes to more than 7,200 cases of new childhood asthma cases across the state every year, according to an EDF analysis.²⁰ In areas with worse pollution, the EDF analysis found NO₂ contributes to more than 14% of new asthma diagnoses.

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EDF research shows that exposure to NOx from heavy-duty trucks disproportionately impacts communities of color across the state (Figure 2). For example, non-white residents live in areas with the highest NOx burden at a rate nearly double that of white residents.²¹Developing asthma changes a child's life, impacting physical, emotional and academic growth. Asthma is the leading cause of missed school days each year and has been linked to diminished school performance.²² Nearly one in two children with asthma misses at least one day of school each year because of asthma. In Illinois, approximately 14% of adults and 10% of children have asthma, resulting in 137 deaths in 2018.²³Across the state, Black children are six times more likely to be hospitalized for asthma and 10 times more likely to die from asthma compared to non-Hispanic white children.^{24,25} According to the Centers for Disease Control and Prevention's (CDC) Chronic Disease Cost Calculator, the estimated medical cost of asthma in the state was \$2.2 billion in 2020.26

EDF research found that transitioning all on-road medium- and heavy-duty vehicles to zero-emission vehicles would benefit all people, especially children and those who are Black.²⁷ In the Chicago Metropolitan Agency for Planning region, for example, tailpipe emissions from these vehicles are currently responsible for more than 1,300 deaths and 1,500 new childhood asthma cases every year (Figure 3).²⁸

Transitioning all on-road medium- and heavy-duty vehicles to zero-emission vehicles would reduce total NO₂ concentrations by as much as 54% in the most impacted census tracts, with the average census tract experiencing a 22% reduction. The health benefits of a full transition to zero-emission trucks would be largest in neighborhoods with higher percentages of residents of color. For example, the residents of census tracts with the largest (top 10%) NO₂-associated reductions in mortality are 45% Black, 13% Hispanic or Latino, 7% Asian and 33% white, while the region as a whole is 17% Black, 23% Hispanic or Latino, 7% Asian and 51% white.

Illinois Demographics by Burden of Heavy-Duty Vehicle-Related NOx Emissions



Annual Reduction in NO_2 Attributable Mortality Rate (deaths per 100,000)



Figure 3

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AN UNEQUAL BURDEN: FINE PARTICULATE MATTER (PM2.5)

In 2023, Illinois had the fifth highest number of deaths per capita from PM_{2.5} diesel engine pollution. ²⁹ PM_{2.5} exposure from on-road mobile sources in Illinois contributes to 416 deaths, 5,003 asthma cases, 199 heart attacks and 129 asthma emergency room visits every year. The impacts are not evenly distributed: People who live, work, or go to school closer to highways and truck-attracting facilities like warehouses are more likely to be affected by diesel engine fine particulate matter and other forms of air pollution from diesel engines.³⁰ The economic impact of these health effects, including missed workdays, restricted activities, deaths and medical treatments, amounted to an estimated \$4.6 billion in 2023.³¹

EDF research shows that exposure to PM_{2.5} from heavy-duty trucks disproportionately impacts communities of color across the state (Figure 4). For example, non-white residents live in areas





Figure 4

with the highest PM_{2.5} burden at a rate nearly double that of white residents.

INADEQUATE POLLUTION MONITORING NETWORKS

Over the past 20 years, from 2003 through 2022, Illinois added 680 leased warehouses equal to or greater than 100,000 square feet, which accounted for 249 million square feet of additional warehouse space and 226,000 additional daily truck trips. Despite this drastic increase, which is likely an underestimate due to a lack of available data, the number of EPA-grade NO₂ and PM_{2.5} pollution monitors, which are operated by the state, stayed the same or slightly decreased during this period.³²

In 2003, the Illinois Environmental Protection Agency operated eight EPA-grade NO₂ and 38 PM_{2.5} monitors spread across 42 sites. In 2022, the agency operated eight EPA-grade NO₂ monitors and 34 EPA-grade PM_{2.5} monitors spread across 37 sites (Figure 5). That's a ratio of 65 leased warehouses for every PM_{2.5} monitor and 277 leased warehouses for every NO₂ monitor as of 2022 – down 62% and 69%, respectively, compared to 2003. In 2022, eight of eight NO₂ monitors measured pollution every hour, but 11 of 34 PM_{2.5} monitors only measured



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daily averages meaning short-term spikes are not captured. Furthermore, 10 of 37 monitoring sites were within 0.5 miles of a leased warehouse. Of those 10 monitors, seven are PM_{2.5}, 2 are NO₂ and one site has both.

As a result of the large temporal and spatial monitoring gaps across the state, leased warehouse neighbors – a disproportionate number of whom are Black, Hispanic/Latino, and low-income – lack information about when pollution is most harmful and where harmful concentrations of localized pollution exist.

EDF research shows substantial PM_{2.5} attributable mortality occurs in rural areas that are far away from EPA-grade PM_{2.5} monitors (Figure 6). More than 25% of estimated mortality burden is in counties with no monitor for PM_{2.5}. High levels of PM_{2.5}-attributable mortality are also seen around leased warehouse clusters, especially within the Chicago metro region.

In addition to these county-level monitoring gaps, local PM_{2.5} monitoring efforts led by Warehouse Workers for Justice in heavilytrafficked truck routes in East and South Joliet found dangerous pollution levels that exceeded U.S. EPA PM_{2.5} standards – exceedances that EPA-grade monitors failed to pick up.³³ This aligns with EDF research showing that various pollutants, including NO₂, can vary block by block by up to 800%, a variation which is not accurately captured by monitors spaced far apart, and not reflected in modeling that fills in the gaps between EPA-grade monitors.³⁴

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POLICY SOLUTIONS

As e-commerce continues to expand and more consumers purchase and return goods online, the number of trucks on the road will continue to increase, which leads to a rise in greenhouse gas and health-harming emissions.

Without legislation, emissions will continue to disproportionately harm Black, Hispanic/Latino and low-income communities and could thwart the achievement of the state's Climate Action Plan. Now, advocates are pushing for such legislation at the state level.

The Health and Equity Insights Act (HB

5013/SB 2385) addresses the impacts of warehouses for all warehouses that have 100,000 square feet or more of warehouse space or generate or could generate 50 or more truck trips per day. ³⁵ Key provisions of the bill include:



Photo credit: Little Village Environmental Justice Organization

- **Improving transparency** about health and air impacts, location and size, truck type and trips, and compliance actions through annual reporting and monitoring requirements. Currently, only leased mega-warehouse locations are known, meaning the total impact of all warehouses cannot be assessed.
- Switching monitors to continuous data collection and expanding local air insights by using community monitoring and satellite data and requiring more monitoring for the most harmful polluters.
- Creating a grant program for overburdened communities to deploy air monitoring networks that identify pollution sources and their local impacts, and requiring the state to engage in analysis, grant facilitation, grant writing, capacity building, outreach and communication.
- Implementing an Indirect Source Review to require regulated warehouse operators to reduce health- and climateharming pollution through a variety of actions. These include acquiring and using zero-emission vehicles and charging infrastructure on- and off-site, installing solar panels and/or batteries on-site, working with drivers or their representatives to strategize alternative transportation to truck trips for incoming or outgoing trips, and contributing to and maintaining docked e-bike share, EV carshare, or public transportation.
- **Requiring a permit** for new or significantly modified warehouses and ensuring that all warehouses comply with pollution reductions.

Complementary policies that encourage the supply and accessibility of zero-emission vehicles in Illinois are crucial. The **Advanced Clean Trucks** rule would do so by:

- Requiring manufacturers to meet increasing sales targets of new zero-emission medium- and heavy-duty vehicles.
- Creating market certainty for zero-emission truck deployment to satisfy indirect source review compliance, inform utility
 infrastructure planning, shape potential state purchase incentives and enable fleet turnover.

Even as zero-emission vehicle adoption accelerates, drivers will continue to operate conventionally-powered vehicles. To protect public health and further improve air quality for overburdened communities, lawmakers and regulators should address tailpipe emissions from new fossil-fuel heavy-duty vehicles in the near term. The Heavy-Duty Omnibus Low NOx rule sets emissions limits on new diesel engines to deliver a 90% reduction in NO_x by 2027. Alongside the Advanced Clean Trucks rule, the Low NO_x rule

advances clean vehicle technology while addressing the need for cleaner air in communities suffering from dangerous pollution levels right now.

Illinois has been a climate and clean energy leader, adopting a net zero emissions target in 2019. The Climate and Equitable Jobs Act, adopted in 2021, is a bold plan to reach 100% renewable energy by 2050, an investment strategy for electric vehicles and equitable charging infrastructure that advances environmental justice and a just transition for workers. Passing the Health and Equity Insights Act and complementary policies is a critical next step towards achieving Illinois' climate mandates and ensuring that residents who are burdened with emissions from fossil fuels are prioritized for zero-emission investments.

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LEASED WAREHOUSES AND NEARBY RESIDENTS BY REGION AND COUNTY

North Central Illinois Counites

In North Central Illinois (Figure 7), an EDF analysis found:

- **111 leased warehouses** ≥ 100,000 square feet composing **37 million** square feet of warehouse space and generating **35,000** truck trips per day.
- **50,000 people** live within half a mile of a leased warehouse. **3,500** are younger than 5 years old.
- 600 annual NO₂ attributable pediatric asthma cases, with between 26% and 60% of NO_x coming from on-road vehicles.
- 0 EPA-grade PM_{2.5} and NO₂ monitors.
- **Black residents** are 160% more likely to live within half a mile of a leased warehouse than expected, based on the region's demographics.
- **Low-income residents** are 158% more likely to live within half a mile of a leased warehouse than expected, based on the region's demographics.
- **Hispanic/Latino residents** are 157% more likely to live within half a mile of a leased warehouse than expected, based on the region's demographics.



Central Illinois

In Central Illinois (Figure 8), an EDF analysis found:

- 85 leased warehouses ≥ 100,000 square feet composing 21 million square feet of warehouse space and generating 18,000 truck trips per day.
- **60,000 people** live within half a mile of a leased warehouse. **3,500** are younger than 5 years old.
- **385 annual NO₂ attributable pediatric asthma cases**, with 32% to 49% of NO_x coming from on-road vehicles.
- 0 EPA-grade PM_{2.5} and NO₂ monitors.
- **Black residents** are 190% more likely to live within half a mile of a leased warehouse than expected, based on the region's demographics.
- Low-income residents are 146% more likely to live within half a mile of a leased warehouse than expected, based on the region's demographics.
- **Hispanic/Latino residents** are 130% more likely to live within half a mile of a leased warehouse than expected, based on the region's demographics.



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Cook County

In Cook County (Figure 9), an EDF analysis found:

- 843 leased warehouses ≥ 100,000 square feet composing 177 million square feet of warehouse space and generating 149,000 truck trips per day.
- **1.3 million people** live within half a mile of a leased warehouse. **87,000** are younger than 5 years old.
- 4,900 annual NO₂ attributable pediatric asthma cases, with 27% of NO_x coming from on-road vehicles.
- **Hispanic/Latino residents** are 156% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- **Low-income residents** are 120% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- **Black residents** are slightly more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.



Figure 9

DuPage County

In DuPage County (Figure 10), an EDF analysis found:

- 421 leased warehouses ≥ 100,000 square feet composing 86 million square feet of warehouse space and generating 79,000 truck trips per day.
- **191,000 people** live within half a mile of a leased warehouse. **12,000** are younger than 5 years old.
- 500 annual NO₂ attributable pediatric asthma cases, with 47% of NO_x coming from on-road vehicles.
- **Hispanic/Latino residents** are 146% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- Black residents are 133% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- Low-income residents are 130% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.



Figure 10

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Will County

In Will County (Figure 11), an EDF analysis found:

- 370 leased warehouses ≥ 100,000 square feet composing 149 million square feet of warehouse space and generating 137,000 truck trips per day.
- 97,000 people live within half a mile of a leased warehouse. 5,000 are younger than 5 years old.
- 200 annual NO₂ attributable pediatric asthma cases, with 45% of NO_x coming from on-road vehicles.
- Hispanic/Latino residents are 153% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- Black residents are 125% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- Low-income residents are 108% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.



Figure 11

Kane County

In Kane County (Figure 12), an EDF analysis found:

- 421 leased warehouses ≥ 100,000 square feet composing 41 million square feet of warehouse space and generating 35,000 truck trips per day.
- **89,000 people** live within half a mile of a leased warehouse. **6,000** are younger than 5 years old.
- 200 annual NO₂ attributable pediatric asthma cases, with 46% of NO_x coming from on-road vehicles.
- **Hispanic/Latino residents** are 146% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- Black residents are 133% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- Low-income residents are 130% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.



Figure 12

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Lake County

In Lake County (Figure 13), an EDF analysis found:

- 143 leased warehouses ≥ 100,000 square feet composing 29 million square feet of warehouse space and generating 24,000 truck trips per day.
- **78,000 people** live within half a mile of a leased warehouse. **5,000** are younger than 5 years old.
- 375 annual NO₂ attributable pediatric asthma cases, with 19% of NO_x coming from on-road vehicles.
- Black residents are 117% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- **Hispanic/Latino residents** are slightly more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- Low-income residents are slightly less likely more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics



Figure 13

Madison County

In Madison County (Figure 14), an EDF analysis found:

- 55 leased warehouses ≥ 100,000 square feet composing 28 million square feet of warehouse space and generating 26,000 truck trips per day.
- **10,000 people** live within half a mile of a leased warehouse. **500** are younger than 5 years old.
- **40** annual NO₂ attributable pediatric asthma cases, with 54% of NO_x coming from on-road vehicles.
- Black residents are 135% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- Low-income residents are 188% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.
- **Hispanic/Latino residents** are 176% more likely to live within half a mile of a leased warehouse than expected, based on the county's demographics.





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LEASED WAREHOUSES AND NEARBY RESIDENTS BY SENATE AND ASSEMBLY DISTRICT

Leased warehouses are disproportionately located within a half mile of Black and Hispanic/Latino residents across the state. This trend is also apparent at the senate and house district level (Table 1). Of the districts with the most leased warehouses across the state, warehouses tend to be disproportionately located within a half mile of Black and Hispanic/Latino residents compared to district demographics. See Table 2 and Table 3 for all senate and assembly district results.

TABLE 1: TOP FIVE SENATE & HOUSE DISTRICTS WITH MOST WAREHOUSES									
Elected official, party- district number	No. leased warehouses ≥ 100k sq ft	Cumulative warehouse sq ft	Est. daily truck trips for leased warehouses ≥ 100k sq ft	Hispanic/ Latino % in district	Hispanic/ Latino % in warehouse neighbors	Hispanic/Latino % in district compared to state %	Black % in district	Black % in warehouse neighbors	Black % in district compared to state %
Sen. Rachel Ventura, D- 43	221	97,972,000	90,700	28%	36%	164%	17%	18%	114%
Sen. Karina Villa, D-25	143	35,015,000	30,500	40%	37%	235%	8%	9%	49%
Sen. Don Harmon, D-39	127	28,269,000	24,200	35%	51%	207%	17%	16%	111%
Sen. Seth Lewis, R-24	126	21,998,000	17,700	12%	15%	69%	5%	6%	30%
Sen. Laura M. Murphy, D-28	106	20,590,000	17,000	16%	30%	96%	4%	4%	23%
Rep. Dagmara Avelar, D-85	132	43,839,000	39,900	25%	35%	146%	17%	17%	108%
Rep. Norma Hernandez, D-77	119	27,136,000	23,400	56%	65%	328%	3%	4%	22%
Rep. Maura Hirschauer, D-49	105	25,624,000	22,400	27%	28%	158%	5%	7%	33%
Rep. Jennifer Sanalitro, R-48	103	16,643,000	13,000	15%	15%	85%	4%	5%	26%
Rep. Michelle Mussman, D-56	101	19,829,000	16,500	19%	30%	113%	4%	4%	26%

The number of estimated daily truck trips is an underestimate because it only includes trips for leased warehouses greater than or equal to 100,000 square feet.³⁶ The equation used to estimate truck trips is from the California South Coast Air Quality Management District's equation for warehouses equal to or greater than 100,000 square feet.

Senate District 43 (Figure 15) is home to 221 leased warehouses equal to or greater than 100,000 square feet. They compose 97,972,000 square feet of warehouse space and generate 90,700 truck trips per day. Approximately 47,900 people live within half a mile of these leased warehouses.

The square footage of leased warehouses in the district equal to or greater than 100,000 square feet has increased 305% over the last decade (2013-2022), which is more than nine times higher than growth across the state during the same period. Hispanic/Latino residents in the district are 30% more likely to live within half a mile of a warehouse than expected, based on the district's demographics. One PM_{2.5} monitor and 0 NO₂ monitors exist in a district that has 1.6 times the percentage of Hispanic/Latino residents compared to the state.



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Senator, party-district No. leased Currunter view Senator, view Hispanic/ Hispanic/ Hispanic/ Bisch Vin B	TABLE 2: WAREHOUSES IN ILLINOIS SENATE DISTRICTS									
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Mattie Humer, D-3 12 1,995,000 1,500 10% 10% 91% 57% 65% 374% Lakesia Collins, D-5 60 10,442,000 13,100 10% 11% 61% 47% 46% 307% Ram Villovlam, D-3 35 6,512,000 5,300 16% 11% 61% 7% 47% 46% 42% Ram Villovlam, D-3 12 2,067,000 1,600 8% 9% 49% 10% 65% 45% 42% 65% 43% 42% 10% 63% 45% <th></th>										
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				1,800	3%	1%	17%	9%	4%	61%

* This calculation was rounded to two significant figures. *** Our methodology defines a warehouse neighbor as one who lives within a half mile of at least one warehouse. The buffer picks up warehouses that may be in multiple districts.

For more information about this report, please contact Sam Becker, Project Manager, Global Clean Air, US Region, at sbecker@edf.org

Environmental Defense Fund

257 Park Avenue South New York, NY 10010

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Representative, party- district number	No. of leased wareho uses ≥ 100,00 0 sq ft	Cumulative warehouse sq ft*	Est. daily truck trips for leased warehouses ≥ 100k sq ft **	Hispanic/ Latino % in district	Hispanic/ Latino % in warehouse neighbors ***	Hispanic/ Latino % in district compared to state %	Black % in district	Black % in warehouse neighbors ***	Black % in district compared to state %
Aaron Ortiz, D-1	58	11,363,000	9,400	78%	75%	453%	6%	4%	41%
Elizabeth Hernandez, D-2	25	6,006,000	5,300	70%	84%	406%	4%	4%	25%
Eva-Dina Delgado, D-3	2	297,000	200	57%	78%	336%	6%	6%	38%
Lilian Jiménez, D-4	17	2,666,000	2,200	58%	67%	337%	14%	15%	94%
Kimberly du Buclet, D-5	6	1.046.000	800	4%	4%	25%	63%	77%	412%
Sonva Harper, D-6	6	948.000	700	25%	41%	146%	52%	40%	342%
Emanuel Chris Welch, D-7	44	8,725,000	7,200	23%	29%	135%	43%	52%	278%
	27		6,000	15%	15%	86%	53%	75%	349%
La Shawn Ford, D-8		6,921,000	,						
Yolonda Morris, D-9	28	5,183,000	4,000	9%	10%	53%	49%	44%	318%
Jawaharial Williams, D-10	32	5,259,000	4,000	12%	12%	68%	46%	47%	297%
Ann Williams, D-11	0	0	0	9%	NA	50%	16%	NA	106%
Margaret Croke, D-12	0	0	0	8%	NA	49%	16%	NA	106%
Hoan Huynh, D-13	2	300,000	200	15%	15%	89%	13%	7%	84%
Kelly Cassidy, D-14	0	0	0	8%	NA	48%	16%	NA	106%
Michael Kelly, D-15	23	4,137,000	3,300	16%	12%	96%	4%	3%	23%
Kevin Olickal, D-16	12	2,376,000	1,900	16%	15%	94%	9%	5%	60%
Jennifer Gong- Gershowitz, D-17	11	1,967,000	1,600	7%	6%	39%	5%	1%	34%
Robyn Gabel, D-18	1	100,000	100	10%	12%	60%	14%	20%	92%
Lindsey LaPointe, D-19	6	908,000	600	29%	29%	171%	3%	3%	21%
Bradley Stephens, R-20	10	2,038,000	1,600	19%	34%	111%	2%	2%	11%
Abdelnasser Rashid, D-21	26	5,692,000	4,700	52%	50%	306%	7%	6%	45%
Angelica Guerrero- Cuellar, D-22	50	11,807,000	10,500	63%	59%	369%	4%	4%	23%
Edgar González Jr., D-23	12	2,870,000	2,500	84%	80%	490%	9%	11%	59%
Theresa Mah, D-24	33	6,981,000	5,800	48%	57%	281%	5%	6%	34%
Curtis Tarver, D-25	2	400,000	400	20%	36%	119%	57%	58%	372%
Kam Buckner, D-26	1	110,000	100	5%	5%	30%	50%	68%	325%
Justin Slaughter, D-27	7	1,324,000	1,100	7%	11%	42%	52%	52%	337%
Robert Rita, D-28	5	875,000	700	15%	23%	89%	51%	43%	331%
Thaddeus Jones, D-29	19	6,611,000	6,000	7%	6%	39%	57%	76%	373%
Will Davis, D-30	17	3,320,000	2,800	16%	22%	94%	54%	67%	351%
Mary E. Flowers, D-31	8	1,101,000	700	12%	10%	72%	54%	65%	354%
Cyril Nichols, D-32	3	1,510,000	700	29%	30%	167%	55%	58%	362%
Marcus C. Evans Jr., D-33	13	3,053,000	2,600	29%	15%	126%	65%	78%	426%
									444%
Nicholas Smith, D-34	28	6,790,000	5,800	10%	10%	60%	68%	80%	
Mary Gill, D-35	25	5,459,000	4,700	10%	20%	57%	22%	14%	143%
Kelly M. Burke, D-36	1	175,000	100	15%	13%	88%	13%	3%	82%
Tim Ozinga, R-37 Debbie Meyers-Martin, D-	27 12	6,935,000 2,915,000	6,100 3,400	7% 6%	7% 9%	41% 35%	2% 50%	2% 37%	16% 329%
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Will Guzzardi, D-39	4	730,000	600	57%	66%	331%	5%	4%	32%
Jaime Andrade Jr., D-40	7	1,104,000	500	45%	41%	265%	6%	5%	40%
Janet Yang Rohr, D-41	11	2,853,000	2,500	7%	9%	42%	6%	7%	38%
Terra Costa Howard, D-42	5	966,000	800	7%	7%	43%	5%	6%	35%
Anna Moeller, D-43	7	954,000	700	52%	46%	303%	7%	8%	49%
Fred Crespo, D-44	5	1,090,000	900	31%	46%	179%	6%	7%	42%
Jenn Ladisch Douglass, D-45	8	2,027,000	1,700	10%	17%	57%	3%	3%	19%
Diane Blair-Sherlock, D-46	90	17,882,000	14,700	24%	28%	141%	8%	9%	53%
Amy Grant, R-47	23	5,355,000	4,700	10%	15%	56%	5%	7%	33%
Jennifer Sanalitro, R-48	103	16,643,000	13,000	15%	15%	85%	4%	5%	26%
Maura Hirschauer, D-49	105	25,624,000	22,400	27%	28%	158%	5%	7%	33%
Barbara Hernandez, D-50	38	9,392,000	8,200	52%	46%	303%	10%	10%	63%
Nabeela Syed, D-51	9	1,599,000	1,300	8%	11%	48%	3%	3%	18%
Martin McLaughlin, R-52	16	3,628,000	3,200	12%	12%	71%	2%	2%	14%
Mark L. Walker, D-53	12	1,892,000	1,500	15%	26%	90%	4%	6%	28%
Mary Beth Canty, D-54	3	398,000	200	18%	17%	104%	2%	2%	16%
Marty Moylan, D-55	5	760,000	500	13%	31%	74%	3%	5%	20%
Michelle Mussman, D-56	101	19,829,000	16,500	13%	30%	113%	4%	4%	20%
			10.000	1.7/0	00/0	113/0	7/0	7/0	20/0

For more information about this report, please contact Sam Becker, Project Manager, Global Clean Air, US Region, at sbecker@edf.org

Environmental Defense Fund 257 Park Avenue South

New York, NY 10010

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				1,800	4%	1%	22%	14%	4%	93%

* This calculation was rounded to three significant figures. ** Our methodology defines a warehouse neighbor as one who lives within a half mile of at least one warehouse. The buffer picks up warehouses that may be in multiple districts.

For more information about this report, please contact Sam Becker, Project Manager, Global Clean Air, US Region, at sbecker@edf.org

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ENDNOTES

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³⁰ Respiratory Health Association, The Dirty Dozen, The Impacts of Diesel Engine Pollution in Illinois, May 2022. <u>https://resphealth.org/wp-content/uploads/2022/05/Dirty-Dozen-Impact-of-Diesel-Engine-Pollution-in-Illinois.pdf</u>

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