



# Chicago COVID-19 Community Vulnerability Index

## Chicago CCVI

January 25, 2021

# Chicago COVID19 Community Vulnerability Index



- Adapted and modified from Surgo Ventures collaboration <https://precisionforcovid.org/ccvi> and the CDC Social Vulnerability Index
- Chicago CCVI identifies communities that have been disproportionately impacted by COVID-19 and are uniquely vulnerable to barriers to COVID-19 vaccine uptake
- Vulnerability is defined as a combination of:
  - Sociodemographic factors
  - Epidemiological factors
  - Occupational factors
  - Cumulative COVID burden
- Ten (10) components included in the index are COVID-specific risk factors and outcomes combined with factors known to be associated with social vulnerability in the context of emergency preparedness
- Chicago CCVI is derived from ranking values of the 10 components by geography, then synthesizing them into a single composite weighted score. The higher the score, the more vulnerable the geographic area
- In Chicago, we are currently measuring CCVI at the community area level

# Chicago CCVI Sociodemographic Risk Factors



At the community area level:	
% Individual Poverty	2018 US Census American Community Survey
% 16+ unemployment	2018 US Census American Community Survey
% Per capita income	2018 US Census American Community Survey
% 25+ no HS diploma	2018 US Census American Community Survey
% Uninsured	2018 US Census American Community Survey
% Population 17 and under	2018 US Census American Community Survey
% living w disability	2018 US Census American Community Survey
% Crowded housing	2018 US Census American Community Survey
% Single-parent households	2018 US Census American Community Survey
% w/ no primary care provider	2019 CDPH Healthy Chicago Survey

Surgo combined 9 equally weighted values into 2 components:  
 - **Socioeconomic (percentile)**  
 - **Household (percentile)**

Data analyzed and compiled by CDPH into one component

- These 3 components were averaged into the overall risk factor score

# Chicago CCVI Epidemiological Risk Factors



At the community area level:	
% 65+ years	2019 US Census American Community Survey
% adult obesity	2019 CDPH Healthy Chicago Survey
% adult current smoking	2019 CDPH Healthy Chicago Survey
% adult diabetes	2019 CDPH Healthy Chicago Survey

Data analyzed and compiled by CDPH into one component

3 indicators were equally weighted and combined into 1 component:  
**% of population w/ one or more of these comorbid conditions**

- These 2 components were averaged into the overall risk factor score

# Chicago CCVI Occupational Risk Factors



At the community area level:	Data Source
Education (teachers, support staff)	2019 US Census American Community Survey
Manufacturing/Food production	2019 US Census American Community Survey
Material moving (grocery store, laborers, freight)	2019 US Census American Community Survey
Personal Service (Childcare, recreation and entertainment workers)	2019 US Census American Community Survey
Public Safety (first Responders/corrections)	2019 US Census American Community Survey
Transportation (public transit, airport truck, taxi)	2019 US Census American Community Survey
Food Service (cooks, servers, food prep, kitchen)	2019 US Census American Community Survey
Ratio of mobility in 2020 compared to 2019	BlueDot (2019 and 2020)

Data analyzed and compiled by CDPH based on ACIP guidance and US Bureau of Labor Statistics Occupation Classifications

Total # of each occupation group in each community area were equally weighted and combined into 1 component  
**[% of population that are essential workers]**

← Data compiled by CDPH into one component

- These 2 components were averaged into the overall risk factor score

# Chicago CCVI Cumulative COVID Burden



At the community area level:	
Diagnosed COVID-19 cases (rate per 100k)	CDPH Communicable Disease Surveillance, I-NEDSS, Jan 1 – Dec 31, 2020
COVID-19 hospital admissions (rate per 100k)	CDPH Communicable Disease Surveillance, I-NEDSS, Jan 1 – Dec 31, 2020
COVID-19 mortality rate (rate per 100k)	CDPH Communicable Disease Surveillance, I-NEDSS, Jan 1 – Dec 31, 2020

Data analyzed and compiled by CDPH into 3 components

- Deaths in congregate settings were removed from the total death counts to better represent community area residents affected by community-level transmission.
- All three components were averaged into the cumulative COVID burden score

# Construction of index



- Each component is measured and ranked by community area
- Rank scores (0-76) are combined and averaged into two groups: Risk Factors and COVID Burden
- The average of the ranks in each group are calculated for each community area
- Higher rank score indicates more vulnerability
- Index is inherently weighted towards COVID burden
  - COVID burden: 3 components averaged
  - Risk factor burden: 7 components averaged
- The COVID-19 Community Vulnerability Index score for each community area is calculated as follows:

**(Average of *Risk Factor* ranks + Average of *Overall COVID Burden* ranks )**

**2**

# Findings



- **Rank-values** of Chicago community areas ranged from 4 (lowest vulnerability) to 64 (highest vulnerability). Tie scores between CAs were ranked equally with each other.
- A **high** CCVI score correlates **most** strongly with **high mobility during COVID, low socioeconomic status, high rates of COVID hospital admission** and **high rates of COVID mortality**
- Strength of index appears well balanced between traditional measures of vulnerability (SES) and COVID-specific measures (mobility, morbidity/mortality)
- 26 **HIGH** Vulnerability Community Areas and **15 in the top quintile**
  - 7 majority **Latinx**; 8 majority **Black**;
  - 9 communities on the Northwest and Southwest sides and 6 on Southside and far Southside;
  - Top 15 includes all PC+ zipcodes and 2 of 3 RERRT community areas
- Residents of high vulnerability community areas have been almost **3 times as likely to have died from COVID-19** as low vulnerability community areas. Top 10 CAs account for 25% of all COVID-19 deaths



# Chicago COVID-19 Community Vulnerability Index (CCVI) HIGH Category

Chicago Community Area Name	Chicago Community COVID-19 Vulnerability Index (CCVI)	Population	Socioeconomic Status (Surgo CCVI)	Household Composition and Disability (Surgo CCVI)	Cumulative mobility ratio (current over prior year)	% adults w/o PCP (HCS)	% Frontline essential workers (% of CA population)	% Age 65+ (ACS)	% 18-64yo adults w/1+ comorbid conditions (HCS)	Cumulative COVID-19 incidence rate (Jan-Dec 2020)	Cumulative COVID-19 hospital admission rate (Jan-Dec 2020)	Cumulative COVID-19 crude mortality rate (non-congregate deaths only) (Jan-Dec 2020)
West Englewood	64	26346	0.94	0.85	0.99	30.2	12.1	20.2	76.4	7,674.80	1,598.00	242.9
New City	60	39508	0.92	0.64	0.98	42.7	17.5	12.1	56.7	9,901.80	1,136.50	151.9
Gage Park	59	37478	0.92	0.48	0.94	32.8	19.5	9.2	44.7	13,370.50	1,064.60	216.1
North Lawndale	58	32073	0.93	0.81	0.99	33.5	13.1	10.8	60.0	6,831.30	1,309.50	208.9
South Lawndale	58	72157	0.94	0.56	0.92	35.9	15.9	9.3	48.4	11,120.20	1,136.40	225.9
Chicago Lawn	58	51352	0.94	0.58	0.90	29.8	16.8	12.3	59.5	10,934.30	1,180.10	155.8
Englewood	55	22921	0.97	0.89	1.00	29.6	10.9	14.4	60.7	5,833.10	1,278.30	161.4
Roseland	55	39162	0.81	0.82	0.96	29.3	13.7	18.1	68.7	5,717.30	1,212.90	176.2
Archer Heights	53	13726	0.83	0.40	0.90	23.1	18.2	12.7	69.2	12,312.40	1,034.50	145.7
Washington Heights	53	26742	0.75	0.83	0.93	31.3	15.4	18.2	54.7	5,781.20	1,256.50	157.1
Austin	53	93727	0.88	0.80	0.94	31.1	15.2	14.3	62.4	7,791.80	1,022.10	151.5
Montclare	53	14267	0.65	0.50	0.82	34.6	15.8	17.0	60.8	10,338.50	1,030.30	161.2
Belmont Cragin	52	78601	0.81	0.51	0.84	33.2	20.2	9.6	40.2	13,069.80	1,011.40	160.3
South Deering	52	15475	0.92	0.89	0.93	30.8	13.0	15.7	64.3	6,785.10	1,111.50	135.7
Humboldt Park	52	55364	0.88	0.63	0.91	33.4	18.8	9.6	56.1	9,630.80	1,040.40	137.3
Hermosa	50	23481	0.81	0.44	0.87	15.9	22.0	10.6	52.7	12,184.30	975.3	183.1
Brighton Park	49	44156	0.89	0.44	0.90	33.5	18.7	9.6	42.2	10,861.50	865.1	140.4
West Pullman	49	30020	0.86	0.81	0.97	26.0	15.7	16.5	62.0	4,870.10	1,039.30	179.9
Garfield Ridge	49	37207	0.61	0.44	0.82	20.2	16.5	15.7	50.2	10,729.20	1,056.30	161.3
Lower West Side	49	33203	0.73	0.18	0.90	31.4	20.6	9.8	42.5	10,267.10	975.8	177.7
West Elsdon	49	19126	0.76	0.39	0.88	36.2	18.1	10.2	43.9	11,821.60	946.4	141.2
West Lawn	49	31886	0.84	0.50	0.88	16.4	19.8	10.4	42.9	13,811.70	1,063.20	134.9
Auburn Gresham	48	45909	0.88	0.78	0.97	30.1	15.7	17.9	55.5	5,314.90	1,119.60	122
East Garfield Park	48	18940	0.95	0.81	0.96	22.4	10.9	10.2	65.5	6,610.30	1,145.70	116.2

# Chicago COVID-19 Community Vulnerability Index (CCVI) MEDIUM Category

Chicago Community Area Name	Chicago Community COVID-19 Vulnerability Index (CCVI)	Population	Socioeconomic Status (Surgo CCVI)	Household Composition and Disability (Surgo CCVI)	Cumulative mobility ratio (current over prior year)	% adults w/o PCP (HCS)	% Frontline essential workers (% of CA population)	% Age 65+ (ACS)	% 18-64yo adults w/1+ comorbid conditions (HCS)	Cumulative COVID-19 incidence rate (Jan-Dec 2020)	Cumulative COVID-19 hospital admission rate (Jan-Dec 2020)	Cumulative COVID-19 crude mortality rate (non-congregate deaths only) (Jan-Dec 2020)
West Garfield Park	47	16415	0.98	0.92	0.94	42.6	12.5	11.9	63.5	5,945.80	1,035.60	103.6
Pullman	46	6840	0.76	0.59	0.96	26.7	18.6	15.6	47.8	5,482.50	818.7	190.1
Calumet Heights	46	12815	0.67	0.76	0.90	21.0	16.5	23.1	52.2	5,423.30	1,248.50	132.7
Greater Grand Crossing	46	30149	0.89	0.77	0.98	37.5	15.4	14.4	68.2	5,058.20	1,031.50	109.5
South Shore	46	50265	0.81	0.69	0.94	26.7	15.8	13.3	59.5	4,995.50	1,124.00	137.3
Ashburn	45	43356	0.69	0.41	0.89	22.8	17.0	11.7	43.9	9,484.30	1,144.00	117.6
Avalon Park	44	9713	0.77	0.83	0.93	16.5	12.9	22.1	75.2	4,725.60	1,060.40	144.1
East Side	44	23723	0.88	0.62	0.92	32.7	17.1	11.1	46.1	10,361.30	708.2	97
South Chicago	44	29936	0.90	0.80	0.92	24.5	14.4	14.0	66.3	4,947.20	1,005.50	147
Morgan Park	43	27114	0.51	0.56	0.88	31.6	13.8	18.2	62.7	5,783.00	877.8	143.8
Chatham	43	30967	0.80	0.80	0.94	18.6	14.7	15.9	68.3	4,986.00	1,107.60	129.2
Clearing	43	24976	0.62	0.39	0.79	25.5	17.7	12.3	60.5	10,061.70	824.8	132.1
Grand Boulevard	41	22643	0.75	0.76	0.88	25.2	13.8	15.1	47.5	6,293.30	1,126.20	97.2
Washington Park	41	10969	0.92	0.91	0.96	27.0	12.1	7.7	78.3	5,178.20	929.9	118.5
North Park	41	18914	0.52	0.44	0.75	21.6	14.8	19.8	53.6	7,211.60	840.6	137.5
Albany Park	38	49806	0.68	0.27	0.74	31.1	19.2	10.1	44.8	7,750.10	728.8	112.4
Woodlawn	38	24844	0.86	0.74	0.86	39.1	12.2	12.7	67.7	5,107.90	929.8	88.6
McKinley Park	37	15177	0.87	0.28	0.81	25.4	20.0	11.2	35.7	8,216.40	685.2	98.8
West Ridge	36	78466	0.70	0.45	0.75	19.5	17.6	13.3	37.7	7,014.50	944.4	103.2
Dunning	36	43445	0.41	0.28	0.79	23.0	15.8	17.6	41.6	8,875.60	713.5	108.2
Douglas	36	21353	0.73	0.48	0.79	35.6	12.1	14.8	33.8	5,067.20	1,053.70	112.4
Hegewisch	36	9089	0.61	0.13	0.90	21.2	16.4	18.7	57.0	10,331.20	539.1	88
Riverdale	36	7359	0.97	0.65	1.04	35.8	12.1	4.8	56.1	2,908.00	625.1	135.9
Portage Park	34	64605	0.55	0.20	0.77	20.3	17.3	12.8	44.5	8,620.10	702.7	108.4
Oakland	31	7227	0.86	0.92	0.84	21.1	15.1	9.1	39.3	5,050.50	1,023.90	83
Norwood Park	31	43405	0.23	0.24	0.72	18.3	17.0	19.4	37.1	6,575.30	705	112.9

# Chicago COVID-19 Community Vulnerability Index (CCVI) LOW Category

Chicago Community Area Name	Chicago Community COVID-19 Vulnerability Index (CCVI)	Population	Socioeconomic Status (Surgo CCVI)	Household Composition and Disability (Surgo CCVI)	Cumulative mobility ratio (current over prior year)	% adults w/o PCP (HCS)	% Frontline essential workers (% of CA population)	% Age 65+ (ACS)	% 18-64yo adults w/1+ comorbid conditions (HCS)	Cumulative COVID-19 incidence rate (Jan-Dec 2020)	Cumulative COVID-19 hospital admission rate (Jan-Dec 2020)	Cumulative COVID-19 crude mortality rate (non-congregate deaths only) (Jan-Dec 2020)
Rogers Park	31	55475	0.67	0.19	0.74	26.6	19.9	8.8	55.8	6,132.50	841.8	66.7
Armour Square	31	13538	0.93	0.44	0.72	8.6	18.6	24.9	37.1	3,752.40	642.6	125.6
Mount Greenwood	30	19190	0.15	0.24	0.75	19.0	22.1	12.5	39.8	8,384.60	646.2	83.4
Irving Park	30	53530	0.40	0.12	0.72	23.8	18.7	10.5	51.6	6,865.30	551.1	104.6
Avondale	28	38118	0.59	0.14	0.73	21.4	19.1	9.7	51.4	7,573.80	582.4	63
Logan Square	28	73277	0.44	0.11	0.66	33.1	17.4	7.1	41.4	6,863.00	584.1	91.4
Beverly	27	19791	0.14	0.22	0.76	21.8	16.9	17.5	34.9	6,452.40	621.5	85.9
Jefferson Park	26	27503	0.40	0.23	0.73	22.1	17.4	16.0	28.4	6,326.60	483.6	94.5
Kenwood	25	17954	0.47	0.43	0.76	30.4	13.9	16.9	41.2	3,943.40	774.2	61.3
Uptown	24	58979	0.47	0.14	0.66	35.6	15.9	12.6	33.8	5,208.60	690.1	67.8
Edison Park	24	11264	0.05	0.14	0.70	17.0	16.0	16.3	57.5	6,436.40	479.4	71
Bridgeport	22	34540	0.71	0.17	0.65	23.7	19.1	13.2	36.3	4,849.40	498	69.5
Near West Side	20	63170	0.66	0.31	0.69	27.8	11.4	7.3	30.6	6,376.40	577.8	49.1
O'Hare	19	23669	0.55	0.27	0.64	26.7	17.4	16.2	32.5	4,268.10	337	60.8
Forest Glen	19	19384	0.18	0.43	0.64	17.3	12.9	18.4	44.5	5,623.20	309.5	46.4
West Town	18	83757	0.28	0.05	0.65	30.3	13.7	5.9	32.8	6,601.20	512.2	58.5
Edgewater	17	57649	0.44	0.24	0.69	21.4	16.5	15.6	32.6	3,963.60	522.1	55.5
Hyde Park	17	27482	0.43	0.07	0.68	41.9	19.1	15.7	24.0	2,787.30	334.8	7.3
Near South Side	15	24729	0.13	0.25	0.54	45.0	9.9	10.8	30.0	4,949.70	448.9	36.4
Lincoln Square	15	42103	0.24	0.09	0.69	21.3	16.2	9.3	38.2	4,612.50	418	87.9
Near North Side	12	93318	0.13	0.11	0.44	19.8	7.7	16.1	30.4	5,273.40	377.2	32.1
Loop	8	38655	0.23	0.01	0.50	34.0	8.7	9.9	20.4	4,265.90	212.1	20.7
Lincoln Park	7	69465	0.11	0.03	0.44	21.1	9.1	9.6	28.9	4,976.60	411.7	21.6
Lake View	5	101365	0.10	0.05	0.47	18.8	12.5	8.1	30.4	4,705.80	300.9	20.7
North Center	4	35543	0.10	0.08	0.49	14.6	11.3	8.2	35.2	3,910.80	244.8	28.1

# Chicago COVID-19 Community Vulnerability Index (CCVI) Data Dictionary

Component	Definition	Data Source	Link
Socioeconomic Status (Surgo CCVI)	From Surgo COVID Community Vulnerability Index: Equal weighting of the national ranking of: percent below poverty; percent unemployed; income level; percent less than high school education; percent uninsured	Surgo Ventures using American Community Survey	<a href="https://precisionforcovid.org/ccvi">https://precisionforcovid.org/ccvi</a>
Household Composition and Disability (Surgo CCVI)	From Surgo COVID Community Vulnerability Index: Equal weighting of the national ranking of: percent living in group quarters; percent under 18 years old; percent of households headed by a single parent; percent aged 5 or greater with a disability; percent living in crowded housing	Surgo Ventures using American Community Survey	<a href="https://precisionforcovid.org/ccvi">https://precisionforcovid.org/ccvi</a>
Cumulative mobility ratio (current year over prior year)	Cumulative amount of time spent more than 200 feet away from home from March 19 - December 31, 2020 divided the cumulative amount of time spent more than 200 feet away from home from March 19 - December 31, 2019.	Blue Dot	<a href="https://bluedot.global/">https://bluedot.global/</a>
% adults w/o PCP (HCS)	Percent of adults aged 18+ with no primary care provider	Healthy Chicago Survey 2016-2018	<a href="https://www.chicago.gov/city/en/depts/cdph/supp_info/healthy-communities/healthy-chicago-survey.html">https://www.chicago.gov/city/en/depts/cdph/supp_info/healthy-communities/healthy-chicago-survey.html</a>
% Frontline essential workers (% of CA population)	Number of frontline workers (census standard occupational codes (SOC): 25,33, 35, 39, 45,51, 53, 53-7000) in the community area divided by the total population in the community area	American Community Survey	<a href="https://www.census.gov/programs-surveys/acs/data.html">https://www.census.gov/programs-surveys/acs/data.html</a>
% Age 65+ (ACS)	Number of people in specified age range divided by the total population in the community area	American Community Survey	<a href="https://www.census.gov/programs-surveys/acs/data.html">https://www.census.gov/programs-surveys/acs/data.html</a>
% 18-64 yo adults w/1+ comorbid conditions (HCS)	Percent of adults aged 18-64 years old with two or more of the following conditions (current smoking, obesity, diabetes) divided by all adults aged 18-64	Healthy Chicago Survey 2016-2018	<a href="https://www.chicago.gov/city/en/depts/cdph/supp_info/healthy-communities/healthy-chicago-survey.html">https://www.chicago.gov/city/en/depts/cdph/supp_info/healthy-communities/healthy-chicago-survey.html</a>
Cumulative COVID-19 incidence rate (Jan-Dec 2020)	Cumulative number of hospitalized unique cases of COVID-19 of people residing in a community area and occurring between January 1 and December 31, 2020 divided by the total population of the community area multiplied by 100,000	INEDSS; Chicago COVID-19 Surveillance	<a href="https://www.chicago.gov/city/en/sites/covid-19/home/covid-dashboard.html">https://www.chicago.gov/city/en/sites/covid-19/home/covid-dashboard.html</a>
Cumulative COVID-19 hospital admission rate (Jan-Dec 2020)	Cumulative number of diagnosed cases of COVID-19 of people residing in a community area and occurring between January 1 and December 31, 2020 divided by the total population of the community area multiplied by 100,000	INEDSS; Chicago COVID-19 Surveillance	<a href="https://www.chicago.gov/city/en/sites/covid-19/home/covid-dashboard.html">https://www.chicago.gov/city/en/sites/covid-19/home/covid-dashboard.html</a>
Cumulative COVID-19 crude mortality rate (non-congregate deaths only) (Jan-Dec 2020)	Cumulative number of deaths from COVID-19 of people residing in a community area and occurring between January 1 and December 31, 2020 divided by the total population of the community area multiplied by 100,000. Any death that occurred to a resident or worker at a congregate living facility (eg, nursing home, group home, etc) was excluded from this calculation.	INEDSS; Chicago COVID-19 Surveillance	<a href="https://www.chicago.gov/city/en/sites/covid-19/home/covid-dashboard.html">https://www.chicago.gov/city/en/sites/covid-19/home/covid-dashboard.html</a>
The ranks are assigned from 0 to 76 for the 77 Chicago community areas; when two community areas were tied with the same value, they were assigned the same ranking but counted uniquely in order to determine the rank of the next highest CA. All indicators/components were defined in such a way higher value corresponded to a higher likelihood for priority within the index.			



# Findings

## High Vulnerability

high to low score

West Englewood  
New City  
Gage Park  
North Lawndale  
South Lawndale  
Chicago Lawn  
Burnside\*  
Englewood  
Roseland  
Archer Heights  
Washington Heights  
Austin  
Montclare  
South Deering  
Belmont Cragin  
Humboldt Park  
Fuller Park\*  
Hermosa  
West Pullman  
Garfield Ridge  
Lower West Side  
West Elsdon  
West Lawn  
Brighton Park  
Auburn Gresham  
East Garfield Park

\* population <2500

## Medium Vulnerability

high to low score

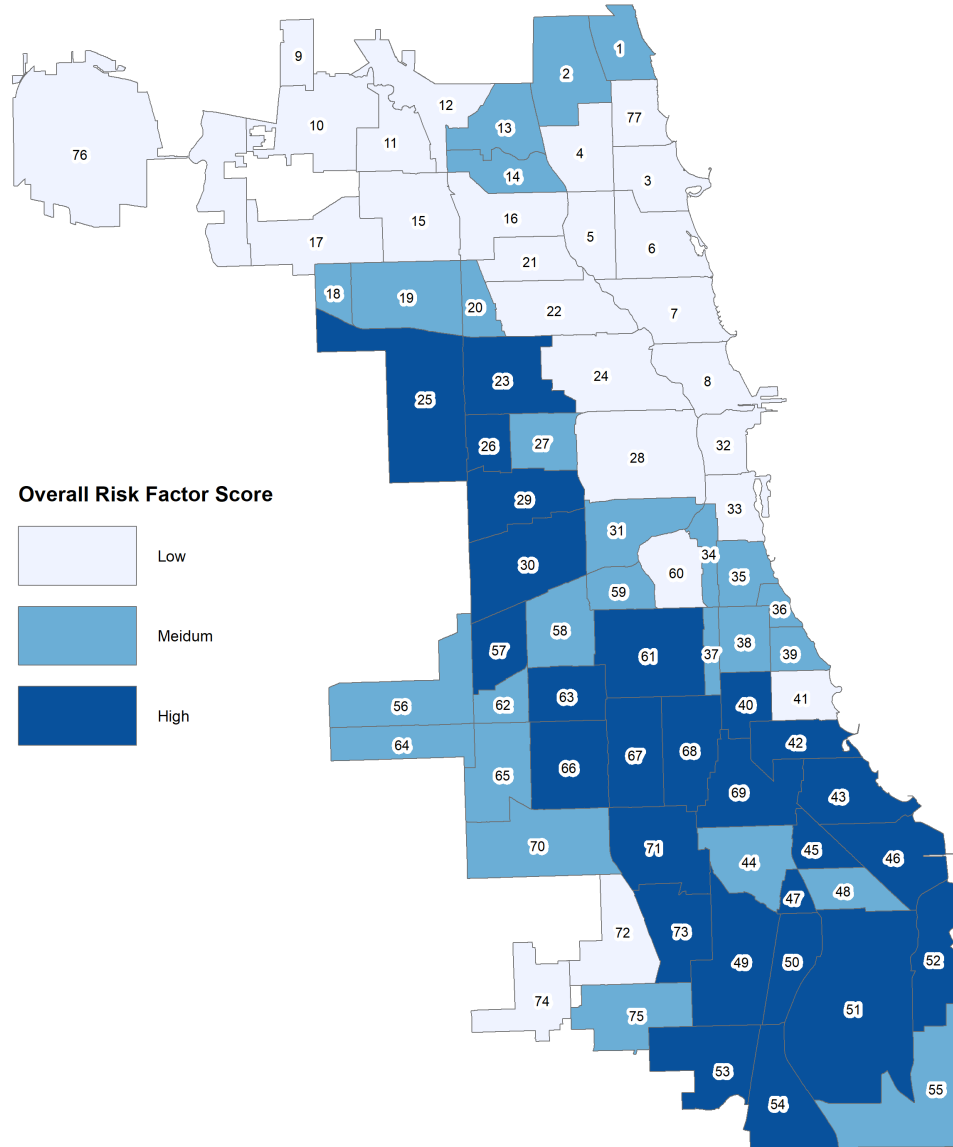
West Garfield Park  
Pullman  
Calumet Heights  
Greater Grand Crossing  
South Shore  
Ashburn  
Avalon Park  
East Side  
South Chicago  
Morgan Park  
Chatham  
Clearing  
Grand Boulevard  
Washington Park  
North Park  
Albany Park  
Woodlawn  
McKinley Park  
West Ridge  
Dunning  
Douglas  
Hegewisch  
Riverdale  
Portage Park  
Oakland  
Norwood Park

## Low Vulnerability

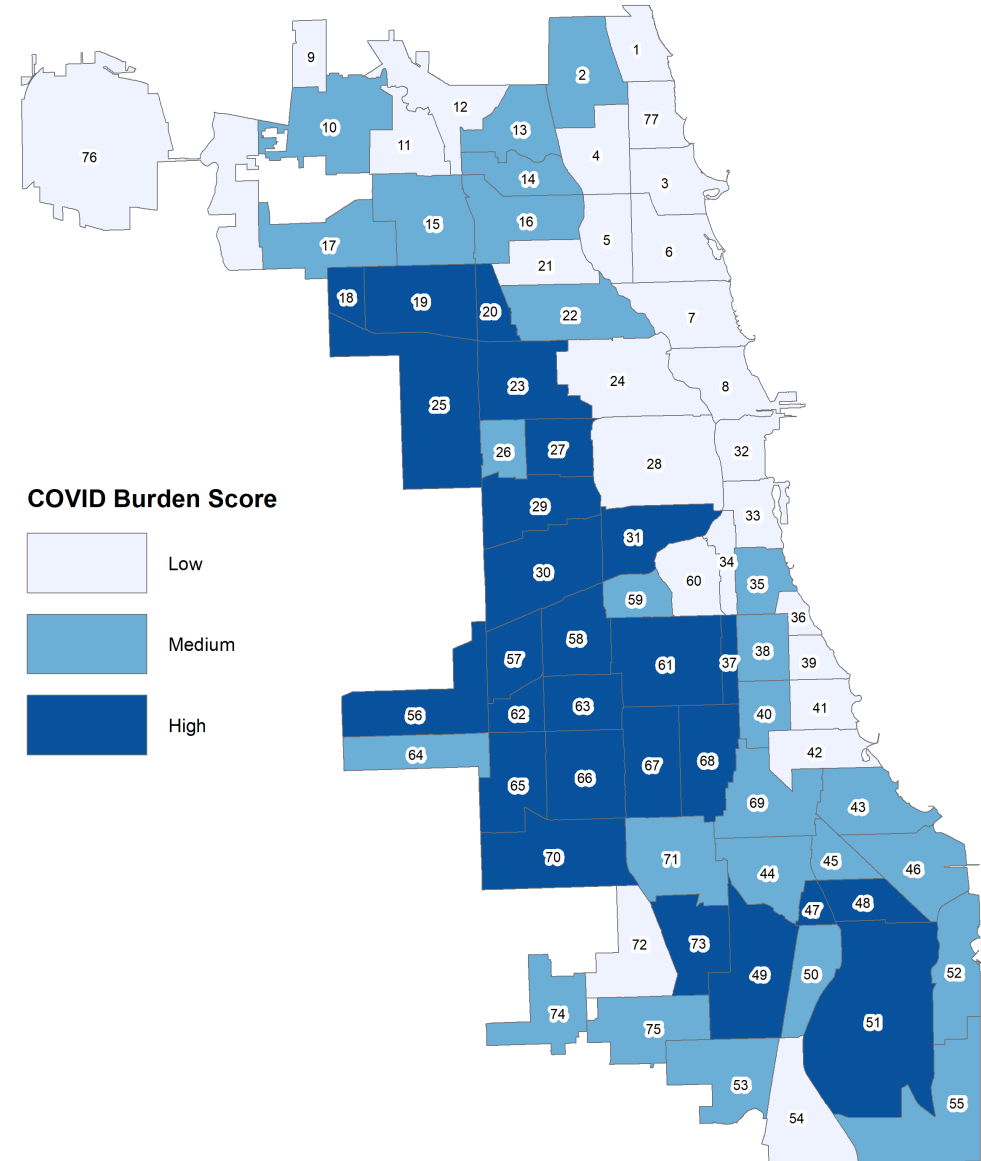
high to low score

Rogers Park  
Armour Square  
Mount Greenwood  
Irving Park  
Avondale  
Logan Square  
Beverly  
Jefferson Park  
Kenwood  
Uptown  
Edison Park  
Bridgeport  
Near West Side  
O'Hare  
Forest Glen  
West Town  
Edgewater  
Hyde Park  
Near South Side  
Lincoln Square  
Near North Side  
Loop  
Lincoln Park  
Lake View  
North Center

# CCVI Risk factor map



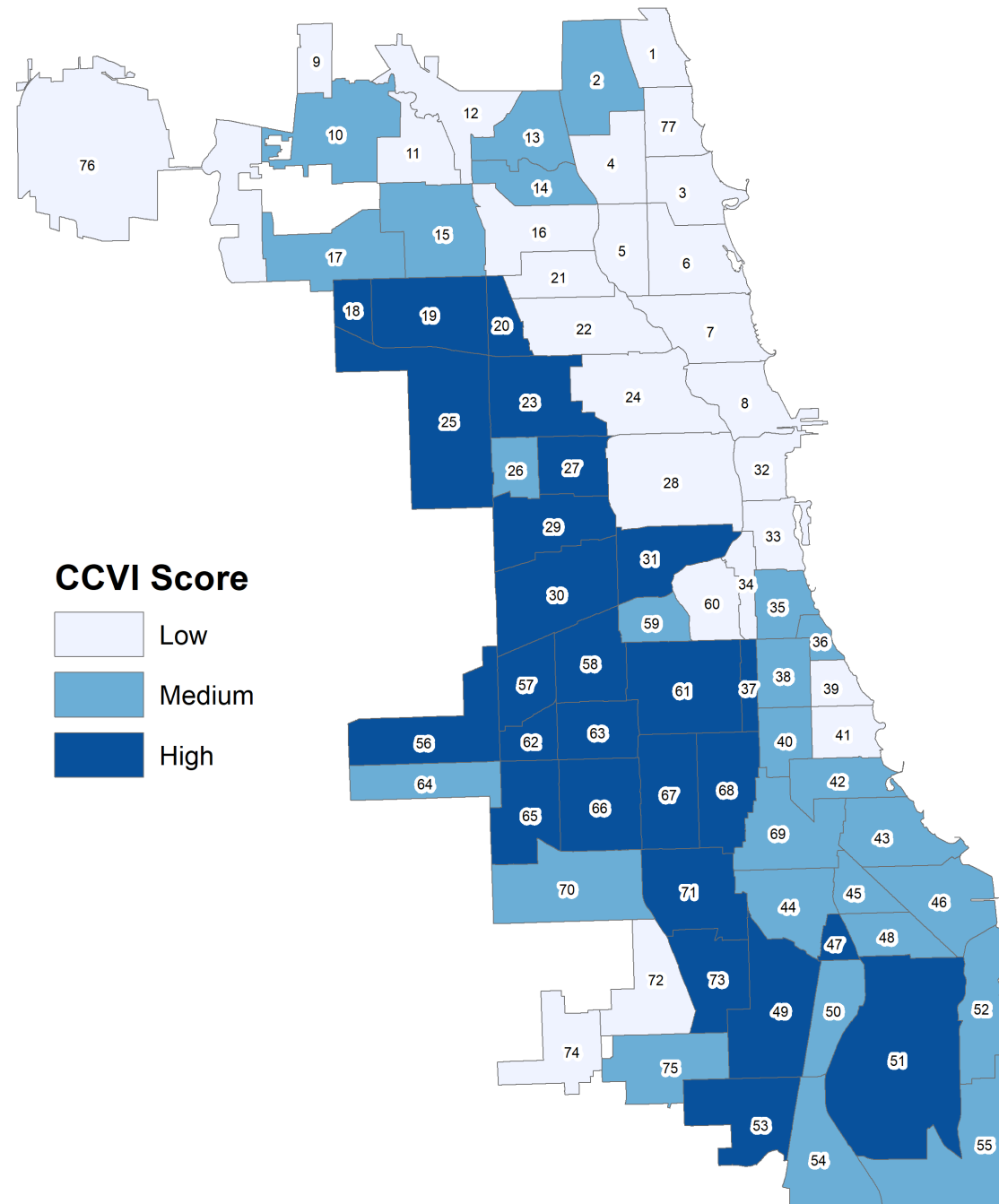
# COVID Burden map



# Chicago CCVI Map



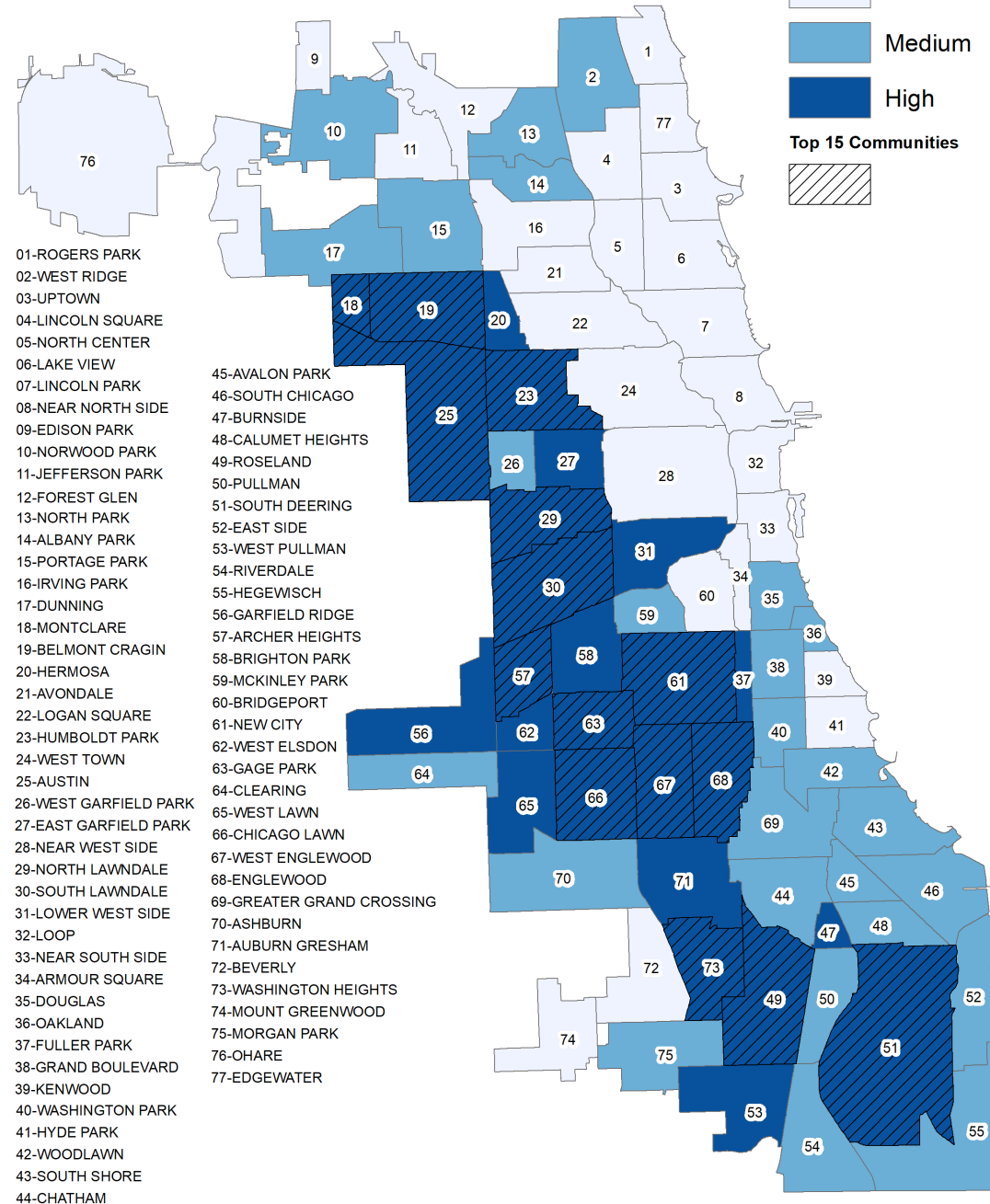
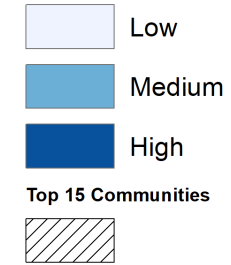
1 Rogers Park	41 Hyde Park
2 West Ridge	42 Woodlawn
3 Uptown	43 South Shore
4 Lincoln Square	44 Chatham
5 North Center	45 Avalon Park
6 Lakeview	46 South Chicago
7 Lincoln Park	47 Burnside
8 Near North Side	48 Calumet Heights
9 Edison Park	49 Roseland
10 Norwood Park	50 Pullman
11 Jefferson Park	51 South Deering
12 Forest Glen	52 East Side
13 North Park	53 West Pullman
14 Albany Park	54 Riverdale
15 Portage Park	55 Hegewisch
16 Irving Park	56 Garfield Ridge
17 Dunning	57 Archer Heights
18 Montclare	58 Brighton Park
19 Belmont Cragin	59 McKinley Park
20 Hermosa	60 Bridgeport
21 Avondale	61 New City
22 Logan Square	62 West Elsdon
23 Humboldt Park	63 Gage Park
24 West Town	64 Clearing
25 Austin	65 West Lawn
26 West Garfield Park	66 Chicago Lawn
27 East Garfield Park	67 West Englewood
28 Near West Side	68 Englewood
29 North Lawndale	69 Greater Grand Crossing
30 South Lawndale	70 Ashburn
31 Lower West Side	71 Auburn Gresham
32 Loop	72 Beverly
33 Near South Side	73 Washington Heights
34 Armour Square	74 Mount Greenwood
35 Douglas	75 Morgan Park
36 Oakland	76 O'Hare
37 Fuller Park	77 Edgewater
38 Grand Boulevard	
39 Kenwood	
40 Washington Park	



# CCVI Score w Top 15 Community Area overlay



## CCVI Score

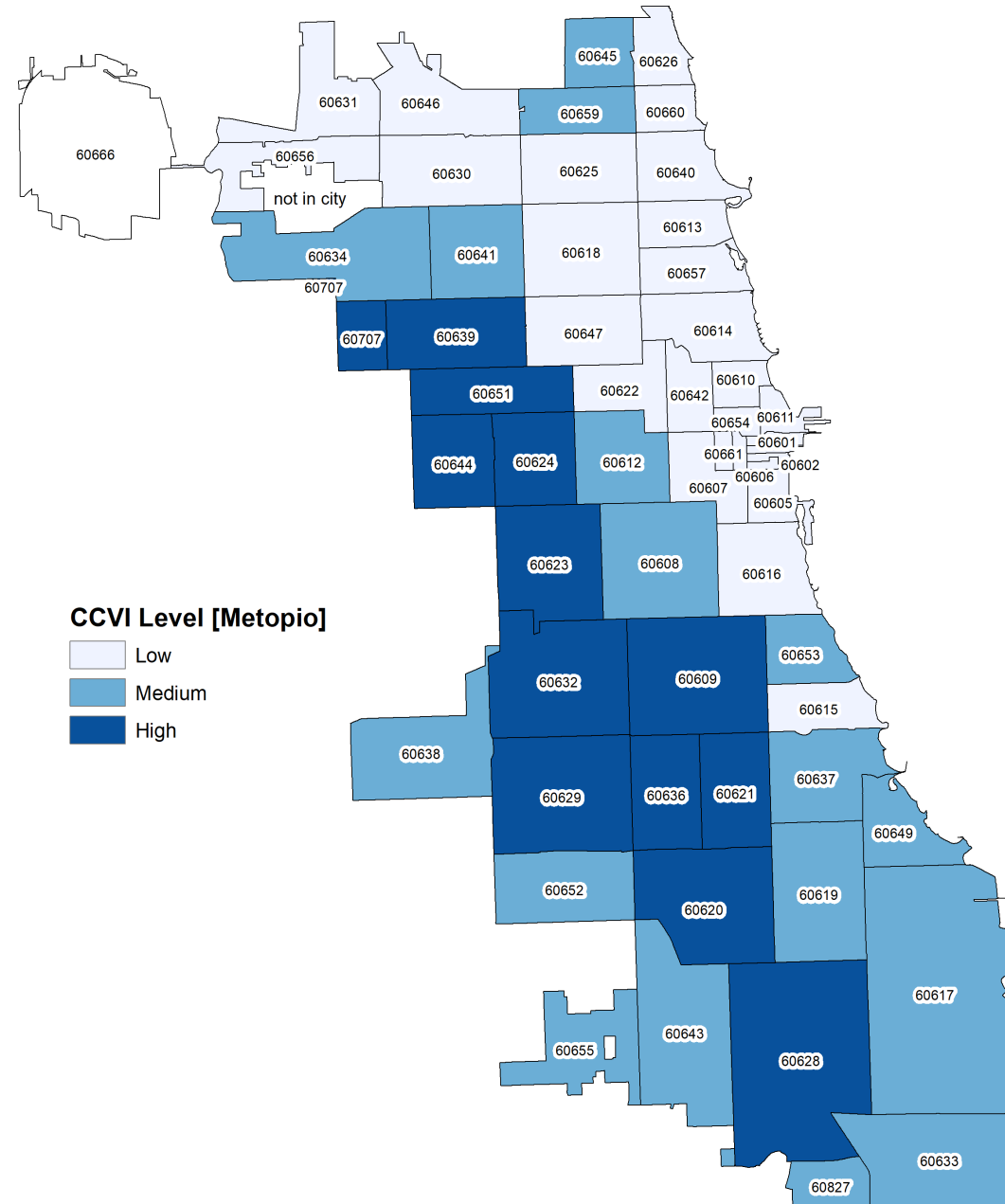


- 01-ROGERS PARK
- 02-WEST RIDGE
- 03-UPTOWN
- 04-LINCOLN SQUARE
- 05-NORTH CENTER
- 06-LAKE VIEW
- 07-LINCOLN PARK
- 08-NEAR NORTH SIDE
- 09-EDISON PARK
- 10-NORWOOD PARK
- 11-JEFFERSON PARK
- 12-FOREST GLEN
- 13-NORTH PARK
- 14-ALBANY PARK
- 15-PORTAGE PARK
- 16-IRVING PARK
- 17-DUNNING
- 18-MONTCLARE
- 19-BELMONT CRAGIN
- 20-HERMOSA
- 21-AVONDALE
- 22-LOGAN SQUARE
- 23-HUMBOLDT PARK
- 24-WEST TOWN
- 25-AUSTIN
- 26-WEST GARFIELD PARK
- 27-EAST GARFIELD PARK
- 28-NEAR WEST SIDE
- 29-NORTH LAWDALE
- 30-SOUTH LAWDALE
- 31-LOWER WEST SIDE
- 32-LOOP
- 33-NEAR SOUTH SIDE
- 34-ARMOUR SQUARE
- 35-DOUGLAS
- 36-OAKLAND
- 37-FULLER PARK
- 38-GRAND BOULEVARD
- 39-KENWOOD
- 40-WASHINGTON PARK
- 41-HYDE PARK
- 42-WOODLAWN
- 43-SOUTH SHORE
- 44-CHATHAM

- 45-AVALON PARK
- 46-SOUTH CHICAGO
- 47-BURNSIDE
- 48-CALUMET HEIGHTS
- 49-ROSELAND
- 50-PULLMAN
- 51-SOUTH DEERING
- 52-EAST SIDE
- 53-WEST PULLMAN
- 54-RIVERDALE
- 55-HEGEWSCH
- 56-GARFIELD RIDGE
- 57-ARCHER HEIGHTS
- 58-BRIGHTON PARK
- 59-MCKINLEY PARK
- 60-BRIDGEPORT
- 61-NEW CITY
- 62-WEST ELSDON
- 63-GAGE PARK
- 64-CLEARING
- 65-WEST LAWN
- 66-CHICAGO LAWN
- 67-WEST ENGLEWOOD
- 68-ENGLEWOOD
- 69-GREATER GRAND CROSSING
- 70-ASHBURN
- 71-AUBURN GRESHAM
- 72-BEVERLY
- 73-WASHINGTON HEIGHTS
- 74-MOUNT GREENWOOD
- 75-MORGAN PARK
- 76-OHARE
- 77-EDGEWATER



# CCVI Category by Zipcode



Zipcode-level CCVI was computed based on overlapping population proportions of individual community areas (CA) within each zipcode. CCVI scores of overlapping CAs were weighted by population proportion and summed to determine zipcode CCVI score. Zipcode CCVI categories utilized the same cutoff thresholds as the CA CCVI scores: HIGH (48+); MEDIUM (32-47); LOW (<32)



# Limitations

- There exist know and unknown factors related to social vulnerability, COVID risk and barriers to vaccine uptake that are not included in this index
- Surgo components were originally validated at the county level from a nationally developed index; Chicago index not formally validated to date
- Occupation groups at the community area level include a broader set of job types than are proscribed by ACIP guidance
- Index only includes COVID outcome data through 12/31/20 – outbreak situation could change in the future significantly altering distribution of disease impact
- Heterogeneity within a community area or a zipcode may misrepresent the vulnerability of subpopulations or geographies within each area