

Chicago Automated Speed Enforcement Camera Before and After Safety Impact Analysis (Sept. 2023)

As of July 1, 2023, the City of Chicago had 162 automated speed enforcement cameras deployed at 83 child safety zones with 91 cameras enforcing speed in one direction of travel, and 71 cameras enforcing speed in both directions of travel. 89 cameras were deployed at 51 park zones; 73 cameras were deployed at 32 school zones. For this analysis, two single-direction cameras located in close proximity to each other (typically, opposite one another on either side of a roadway) were analyzed as a single location for consistency. A total of 106 locations, where a total of 149 speed enforcement cameras were deployed, are analyzed using crash data provided by the Illinois Department of Transportation. Twelve cameras (specified at the end of the table below) were activated in 2018 and one in 2021. These 13 cameras are not part of this analysis, due to the lack of a full two years of “before and after” data. (In addition, 16 cameras were relocated in 2023, which doesn’t affect this analysis, which compares 2012-13 to 2021-22).

The purpose of this analysis is to gain insight into how traffic safety has changed in areas around the speed cameras, comparing the numbers of crashes before and after camera installation. Crashes within one-eighth of a mile (660 feet) of camera locations were counted for two, two-year periods. 2012-2013 represents the period “before” deployment of the cameras, and 2021-2022 represents the period “after” deployment. These two periods are then compared to each other and, more importantly, to city-wide crash data. This analysis is intended to fulfill requirements of state statute (625 ILCS 5/11 -208.8) (r)).

Results

Between 2012-2013 and 2021-2022, the number of crashes near automated speed enforcement cameras went down for four of the five crash types considered in this analysis. Comparing the same two periods for the city as a whole (i.e. city-wide), the number of crashes increased for all but one crash type: bicycle and pedestrian crashes. City-wide, bicycle and pedestrian crashes decreased by 32 percent. However, the decrease in bicycle and pedestrian crashes was even greater near speed cameras, where it dropped by 46 percent. The comparison of crashes near speed enforcement cameras vs. the city-wide powerfully attests to the effectiveness of speed enforcement cameras. The cameras’ success in reducing crashes has been consistent since their installation. Fatal or serious injury crashes **dropped by 11%** near speed cameras between 2012-13 and 2021-22, as compared to a **19% increase** city-wide.

- Between 2012-13 and 2020-21, overall crash totals *decreased* by 2% at automated speed enforcement locations, as compared to a 27% *increase* in all crashes city-wide.
- Speed-related crashes *decreased* by 16% near cameras, as compared to a 22% *increase* city-wide.
- Bicycle and pedestrian crashes decreased 44% near speed cameras, as compared to a 24% decrease city-wide.
- While youth-related crashes increased by 19% near speed cameras, they increased even more city-wide (43%).

Automated Speed Enforcement Camera Before and After Safety Impact Analysis Summary

Speed Camera Locations / Years	Total Crashes	Fatal and Injury Crashes	Bicycle and Pedestrian Crashes	Speed-Related Crashes	Youth-Related Crashes
2012-2013	6828	1392	463	784	463
2021-2022	6682	1239	258	658	553
% Change	-2%	-11%	-44%	-16%	19%
City-Wide	Total Crashes	Fatal and Injury Crashes	Bicycle and Pedestrian Crashes	Speed-Related Crashes	Youth-Related Crashes
2012-2013	137218	27001	8677	15953	9011
2021-2022	174463	32107	6555	19419	12863
% Change	27%	19%	-24%	22%	43%

While the City of Chicago continues, through Vision Zero and other traffic safety initiatives, to work hard to reduce all types of crashes across the city, automated speed enforcement cameras provide a valuable and proven tool for reducing speeding and other dangerous, aggressive driving behaviors and ensuring the safety of children and adults near the city's schools and parks.

Note: 149 speed cameras are included in this analysis. 88 cameras enforce speed in one direction only and 61 cameras enforce two directions of traffic. For the purposes of this analysis, two single-direction cameras facing opposite directions were considered one camera "location." Seven ASE cameras included in this analysis were activated in 2015 (CHI144, CHI157, CHI159, CHI161, CHI64, CHI166, and CHI167) and are denoted with an * in the list below. Twelve cameras were activated in 2018 and one in 2021 and therefore were not used for this analysis.

Automated Speed Enforcement Camera Before and After Safety Impact Analysis

No	Camera_ID	Address	Safety Zone	Ward(s)	2012-2013					2021-2022				
					Total Crashes	Injury or Fatal	Bicycle Pedestrian	Speed Related	Youth Related	Total Crashes	Injury or Fatal	Bicycle Pedestrian	Speed Related	Youth Related
1	CHI003	4124 W Foster Ave	Gompers Park Speed Camera EB WB	39	15	4	3	1	0	19	2		1	2
2	CHI004	5120 N Pulaski Rd	Gompers Park Speed Camera NB SB	39	86	16	1	4	6	52	13	2	3	6
3	CHI005	2080 W Pershing Rd	McKinley Park Speed Camera EB WB	12	13	1	0	2	1	22	7			1
4	CHI007	3843 S Western Blvd	McKinley Park Speed Camera NB SB	19	118	27	2	11	9	176	37		12	23
5	CHI008	3655 W Jackson Blvd	Garfield Park Speed Camera EB WB	28	3	1	0	0	0	6	4		1	1
6	CHI009	3646 W Madison St	Garfield Park Speed Camera EB WB	28	2	2	0	0	0	10	6		1	3
7	CHI010	1111 N Humboldt Blvd	Humboldt Park Speed Camera NB SB	26	33	9	2	0	4	37	8	2		6
8	CHI011	3100 W Augusta Blvd	Humboldt Park Speed Camera EB WB	26	11	2	1	2	0	25	8	2	5	2
9	CHI013	5330 Cottage Grove	Washington Park Speed Camera NB SB	4 (5)	25	7	2	2	1	41	5	2	5	1
10	CHI014 CHI018	6909 S Kedzie Ave 6818 S Kedzie Ave	Marquette Park Speed Camera NB SB	17	2	0	0	1	0	3	1		1	2
11	CHI015	3450 W 71ST ST	Marquette Park Speed Camera EB WB	17	7	0	0	0	1	19	2		1	
12	CHI019 CHI020	2917 W Roosevelt 2912 W Roosevelt Rd	Douglas Park Speed Camera EB WB	28,24	33	9	5	5	5	60	14	4	6	8
13	CHI021	2900 W Ogden Ave	Douglas Park Speed Camera EB WB	24	2	0	0	0	0	6	2			1
14	CHI022 CHI023	11153 S Vincennes 11144 S Vincennes	Morgan Park Speed Camera SB NB	19,34	60	12	5	8	9	76	20	5	15	10
15	CHI024	3137 W Peterson	Legion Park Speed Camera EB WB	39 (50)	122	22	7	6	8	80	13	4	6	11
16	CHI025	3034 W Foster Ave	Legion Park Speed Camera EB WB	40 (33)	22	5	1	4	3	13	2	1	1	2
17	CHI026 CHI027	3521 N Western 3534 N Western	Lane Tech HS Speed Camera NB SB	47	137	31	11	11	12	104	14	1	9	13
18	CHI028	2549 W Addison	Lane Tech HS Speed Camera EB WB	47	11	2	1	0	1	22	2		1	2
19	CHI029	536 E Morgan Dr	Washington Park Speed Camera EB WB	20	8	1	0	2	0	20	7		1	
20	CHI030 CHI031	4929 S Pulaski 5030 S Pulaski	Curie HS Speed Camera NB SB	14	193	43	10	37	17	140	21	4	20	11
21	CHI032	4925 S Archer	Curie HS Speed Camera NEB SWB	14	31	4	1	4	1	50	6	1	6	4
22	CHI033 CHI034	629 State St 630 State St	Jones HS Speed Camera NB SB	4	180	49	23	21	9	182	33	15	15	11
23	CHI035 CHI036	57 E 95th St 62 E 95th St	Abbott Park Speed Camera WB EB	9	39	5	1	5	4	27	6	1	2	1
24	CHI039 CHI040	6247 W Fullerton 6250 W Fullerton	Riis Park Speed Camera EB WB	36, 30	27	3	1	1	1	26	2		1	1
25	CHI041 CHI042	5509 W Fullerton 5446 W Fullerton	Charles Prosser School Speed Camera EB WB	36, 30	30	3	1	1	2	31	3	1		1
26	CHI043	5440 W Grand	Charles Prosser School Speed Camera EB WB	36 (37)	11	4	1	2	1	15	1		3	2
27	CHI044	4843 W Fullerton	St. Genevieve School Speed Camera EB WB	31	172	26	9	19	17	146	21	5	15	8
28	CHI045	445 W 127th St	Major Taylor Bike Park Speed Camera EB WB	9	8	3	1	1	1	14	1		1	2
29	CHI048	3843 W 111th	Chicago Agricultural HS Speed Camera EB WB	12	7	1	0	1	2	8	2	1	1	3
30	CHI049	4123 N Central Ave	Portage Park Speed Camera NB SB	38	94	19	9	11	4	77	12		7	9
31	CHI050	5454 W Irving Park	Portage Park Speed Camera EB WB	38	31	2	1	4	1	17	4		1	1

32	CHI051	6523 N Western	Warren Park Speed Camera NB SB	50	60	4	2	5	6	45	10	4	5	5
33	CHI055 CHI094	4433 N Western 4436 N Western	Welles Park Speed Camera NB SB	47	99	21	6	11	7	65	13	5	6	2
34	CHI056	4432 N Lincoln	Welles Park Speed Camera NB SB	47	33	8	4	3	0	30	8	2	3	1
35	CHI057 CHI130	515 S Central Ave 506 S Central Ave	Columbus Park Speed Camera NB SB	29	69	14	4	8	6	97	19	6	8	13
36	CHI058	5816 W Jackson	Columbus Park Speed Camera EB WB	29	6	0	0	1	0	7	1		1	1
37	CHI059 CHI060	5433 S Pulaski 5428 S Pulaski	John Hancock HS Speed Camera NB SB	23	177	32	6	24	12	156	26	4	9	14
38	CHI061 CHI062	4045 W 55th 4040 W 55th	John Hancock HS Speed Camera EB WB	23, 13	152	24	6	20	10	114	19	4	10	9
39	CHI063	7518 S Vincennes	Harvard Elementary Speed Camera NB SB	6	59	23	7	10	3	91	22	1	15	11
40	CHI064 CHI065	7739 S Western 7738 S Western	St Rita HS Speed Camera NB SB	18	39	7	1	4	6	27	3	1	5	1
41	CHI067 CHI066	2550 W 79th 2603 W 79th	St Rita HS Speed Camera WB EB	18	16	7	0	2	1	21	6		2	1
42	CHI068 CHI069	5529 S Western 5520 S Western	Gage Park Speed Camera SB NB	15	104	20	3	14	8	164	23	3	13	10
43	CHI070	2513 W 55th St	Gage Park Speed Camera EB WB	15 (14)	22	2	1	2	3	29	2	1	2	2
44	CHI071 CHI072	7833 S Pulaski Rd 7826 S Pulaski Rd	Bogan HS Speed Camera NB SB	18	123	32	5	19	9	92	18	3	13	8
45	CHI073 CHI074	3851 W 79th St 3832 W 79th St	Bogan HS Speed Camera WB EB	18	26	8	2	4	4	39	3		4	3
46	CHI075 CHI076	141 N Ashland 140 N Ashland	Union Park Speed Camera NB SB	27	77	14	4	11	2	73	14	2	5	8
47	CHI077	115 N Ogden	Union Park Speed Camera NB SB	27	26	7	2	4	1	38	5	1	2	
48	CHI078	2721 W Montrose	Horner Park Speed Camera EB WB	33	42	12	6	5	4	26	2	1	1	2
49	CHI079 CHI080	2705 W Irving Park 2712 W Irving Park	Horner Park Speed Camera EB WB	33	53	19	7	7	6	28	7	2	3	3
50	CHI083	6226 W Irving Park Rd	Merrimac Park Speed Camera EB WB	38	42	7	3	6	2	22	2		2	2
51	CHI086	4620 W Belmont	Parsons Park Speed Camera EB WB	30 (31)	55	10	1	6	2	50	4	1	4	3
52	CHI087	3230 N Milwaukee Ave	Lorca School Speed Camera NB SB	30	101	14	4	10	4	86	14	5	10	6
53	CHI088 CHI089	3809 W Belmont ave 3810 W Belmont Av	Lorca School Speed Camera EB WB	30	107	21	9	16	4	84	15	3	5	5
54	CHI090	2448 N Clybourn Ave	Schaefer Park Speed Camera NB SB	32	63	9	2	6	4	52	12	5	3	2
55	CHI091 CHI092	2443 N Ashland 2432 N Ashland	Schaefer Park Speed Camera SB NB	32	161	26	4	12	6	134	25	11	11	8
56	CHI093	5885 N Ridge Ave	Senn Park Speed Camera NB SB	48	113	27	11	12	4	64	17	3	5	3
57	CHI095	1142 W Irving Park	Challenger Park Speed Camera EB WB	46	11	5	1	1	0	10	1		1	1
58	CHI096 CHI097	4429 N Broadway 4446 N Broadway	Challenger Park Speed Camera NB SB	46	94	17	13	6	1	89	21	11	4	4
59	CHI099 CHI098	2440 W 51st St 2445 W 51st St	Christopher School Speed Camera WB EB	14	51	4	0	6	3	81	12	2	13	13
60	CHI100	5025 S Western	Christopher School Speed Camera NB SB	15 (14)	101	17	3	13	4	123	26	5	17	20
61	CHI101	7422 S Jeffery	Rosenblum Park Speed Camera NB SB	8 (7)	61	13	4	12	6	74	17	3	7	4
62	CHI102	5471 W Higgins	Jefferson Park Speed Camera EB WB	45	76	14	9	7	6	57	10	3	4	5
63	CHI103	5432 W Lawrence	Jefferson Park Speed Camera EB WB	45	40	5	4	4	3	32	4	1	3	2
64	CHI104 CHI132	3115 N Narragansett 3116 N Narragansett	Icci Academy School Speed Camera NB SB	36	81	15	10	5	5	62	10	3	4	8
65	CHI105 CHI106	6443 W Belmont 6514 W Belmont	Icci Academy School Speed Camera EB WB	36	26	7	1	1	4	26	6		3	2
66	CHI107 CHI108	4041 W Chicago Ave 4040 W Chicago Ave	Orr HS Speed Camera EB WB	37	110	31	11	13	7	109	25	5	8	9
67	CHI109	732 N Pulaski Rd	Orr HS Speed Camera NB SB	37	126	43	13	14	12	120	27	5	6	8
68	CHI110 CHI111	2335 W Cermak Rd 2326 W Cermak Rd	Pickard School Speed Camera EB WB	25	116	20	3	15	9	114	25	3	14	9
69	CHI112 CHI113	1635 N Ashland 1638 N Ashland	Burr School Speed Camera NB SB	32	155	27	7	14	4	105	12	6	15	8

70	CHI114	6125 N Cicero Ave	Sauganash School Speed Camera EB WB	39	29	4	0	2	3	21	1		2	1
71	CHI115 CHI116	4707 W Peterson Ave 4674 W Peterson Ave	Sauganash School Speed Camera WB EB	39	35	7	0	7	3	24	5	1	3	2
72	CHI117	2928 S Halsted	McGuane Park Speed Camera NB SB	11	35	10	5	3	4	61	6		5	5
73	CHI118	5420 S Racine	Sherman Park Speed Camera NB SB	20	38	8	0	4	3	32	8		6	5
74	CHI119 CHI121	1334 W Garfield Blvd 1315 W Garfield Blvd	Sherman Park Speed Camera WB EB	20, 16	23	2	0	8	4	40	10	2	3	
75	CHI120	10318 S Indianapolis	John Beniac-Park 499 Speed Camera NB SB	10	19	5	0	6	1	20	6		4	2
76	CHI122	3047 W Jackson Blvd	Horan Park Speed Camera EB WB	28	29	4	2	4	4	63	13	1	3	5
77	CHI123	324 S Kedzie Ave	Horan Park Speed Camera NB SB	28	47	12	5	3	3	38	6	2	2	2
78	CHI124 CHI125	449 N Columbus Dr 450 N Columbus Dr	Ogden Plaza Park Speed Cameras NB SB	42	97	20	11	5	1	89	9	5	6	5
79	CHI126	324 E Illinois St	Ogden Plaza Park Speed Camera EB	42	143	29	19	8	1	124	24	12	9	5
80	CHI128 CHI127	1226 Western 1229 Western	Roberto Clemente School Speed Camera SB NB	1, 26	72	16	8	8	1	65	11	2	10	3
81	CHI129	2329 Division	Roberto Clemente School Speed Camera EB WB	1	80	15	8	7	2	57	7	2	9	2
82	CHI133 CHI139	19 W Chicago Ave 14 W Chicago Ave	Francis Xavier School Speed Camera EB WB	2, 42	130	25	15	11	7	126	36	16	13	5
83	CHI134 CHI135	2115 S Western Ave 2108 S Western Ave	Pickard School Speed Camera NB SB	25, 28	99	17	5	12	9	120	27	4	9	8
84	CHI136 CHI137	346 W 76th St 341 W 76th St	Harvard School Speed Camera WB EB	6, 17	73	21	4	10	6	101	25	2	14	14
85	CHI138	1901 E 75th St	Rosenblum Park Speed Camera EB WB	8	11	3	1	0	1	16	4		1	1
86	CHI140 CHI141	3535 E 95th St 3542 E 95th St	Calumet Park Speed Camera EB WB	10	61	13	2	4	4	46	6		4	1
87	CHI142	9618 S Ewing Ave	Calumet Park Speed Camera NB SB	10	27	10	1	3	2	18	3		1	
88	CHI143	1440 W Cermak Rd	Benito Juarez High School Speed Camera WB EB	25	24	6	2	7	2	38	7		4	6
89	CHI144*	3200 S Archer Ave	Mulberry Park Speed Camera EB WB	25 (12)	19	1	1	1	1	54	6	1	5	2
90	CHI145	2109 E 87th St	Chicago Vocational HS Speed Camera EB WB	8	14	4	2	2	2	10	3		2	1
91	CHI146	215 E 63rd St	Dulles Elementary School Speed Camera EB WB	20	25	4	1	3	2	31	8	2	3	3
92	CHI147	4831 W Lawrence Ave	Ashmore Park Speed Camera EB WB	45	146	21	3	21	9	101	13		8	6
93	CHI148	6330 S Martin Luther King Dr	Dulles Elementary School Speed Camera NB SB	20	106	37	14	19	12	130	35	6	13	9
94	CHI149	4909 N Cicero Ave	Ashmore Park Speed Camera NB SB	39 (45)	19	2	0	1	0	25	7		3	1
95	CHI154 CHI165	2416 W 103rd St 2417 W 103rd St	Beverly Park Speed Camera WB EB	19	85	13	1	7	15	106	14	1	12	11
96	CHI156	5739 N Northwest Hwy	Taft High School Speed Camera NB SB	41 (45)	78	9	5	9	12	69	8		11	7
97	CHI157*	1754 N Pulaski Rd	Keystone Park Speed Camera SB	26 (35)	45	12	5	5	3	46	8	2	5	2
98	CHI158	6510 W Bryn Mawr Ave	Taft High School Speed Camera WB	41	14	2	2	6	5	13	4	2	5	5
99	CHI159* CHI161*	4053 W North Ave 4042 W North Ave	Keystone Park Speed Camera EB WB	26	113	28	6	12	5	67	8	2	9	5
100	CHI160	4042 W Roosevelt Rd	Frazier Magnet School Speed Camera EB WB	24	96	20	9	13	3	93	25	3	10	8
101	CHI162 CHI163	1117 S Pulaski Rd 1110 S Pulaski Rd	Frazier Magnet School Speed Camera NB SB	24	111	26	12	13	4	106	31	5	12	9
102	CHI164*	5532 S Kedzie Ave	St. Gall Elementary School Speed Camera NB SB	14	113	18	5	16	9	176	28	5	20	15
103	CHI166* CHI167*	3217 W 55th St 3212 W 55th St	St. Gall Elementary School Speed Camera EB WB	14	140	22	8	20	8	186	31	8	21	18
104	CHI169 CHI168	8318 S Ashland Ave 8345 S Ashland Ave	Foster Park Speed Camera SB NB	21	90	18	4	9	9	96	16	2	16	9
105	CHI170	1507 W 83rd St	Foster Park Speed Camera EB WB	21	17	3	1	1	0	23	4		2	2
106	CHI171 CHI172	3111 N Ashland Ave 3130 N Ashland Ave	Burley Elementary School Speed Camera NB EB	32	119	26	18	15	5	91	11	4	6	4
				Total	6828	1392	463	784	463	6682	1239	258	658	553

** The camera located at 18 W. Superior was removed in October 2018 and was therefore removed from this analysis.

Cameras deployed in 2018

No	Camera_ID	Address	Safety Zone	Ward(s)
1	CHI173	5006 S Western Blvd	Christopher School Speed Camera NB SB	15
2	CHI174	8020 W Forest Preserve Ave	Hiawatha Park Speed Camera EB WB	38
3	CHI175	8043 W Addison St	Hiawatha Park Speed Camera EB	38
4	CHI176	8006 W Addison St	Hiawatha Park Speed Camera WB	38
5	CHI177	3911 W Diversey Ave	Kosciuszko Park Speed Camera EB WB	30 (31)
6	CHI178	4319 W 47th St	Acero Major Hector Garcia HS Speed Camera EB	14
7	CHI179	4246 W 47th St	Acero Major Hector Garcia HS Speed Camera WB	14
8	CHI180	7157 S South Chicago Ave	Gary Comer HS Speed Camera NWB	5
9	CHI181	819 E 71st St	Gary Comer HS Speed Camera EB WB	5 (6)
10	CHI182	1455 W Division St	North Montessori School Speed Camera EB	27 (2)
11	CHI183	1444 W Division St	North Montessori School Speed Camera WB	2 (27)
12	CHI184	7122 S South Chicago Ave	Gary Comer HS Speed Camera SEB	5

Camera deployed in 2021

No	Camera_ID	Address	Safety Zone	Ward(s)
1	CHI185	1306 W 76th St.	MLK Park Speed Camera EB WB	17

Total Speed Cameras for 2021-22

162