

Chicago Automated Speed Enforcement Camera Before and After Safety Impact Analysis

As of December 31, 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 115 locations, where the 162 speed enforcement cameras were deployed, are analyzed using crash data provided by the Illinois Department of Transportation.

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 2022-2023 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 2022-2023, 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 14 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 2022-23, as compared to a **19% increase** city-wide.

- Between 2012-13 and 2022-23, overall crash totals increased by 2% at automated speed enforcement locations, as compared to a 28% increase in all crashes city-wide.
- Speed-related crashes decreased by 24% near cameras, as compared to a 9% *increase* city-wide.
- Bicycle and pedestrian crashes decreased 46% near speed cameras, as compared to only a 14% decrease city-wide.
- While youth-related crashes increased by 15% near speed cameras, they increased even more city-wide (28%).

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	7348	1508	496	848	492
2022-2023	7465	1363	340	683	582
% Change	2%	-11%	-46%	-24%	15%
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
2022-2023	175983	32148	7503	17408	11498
% Change	28%	19%	-14%	9%	28%

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: 162 speed cameras operational in 2022-23 are included in this analysis, but at only 115 "locations," where 68 cameras enforced speed in one direction only and 47 cameras enforced in two directions of traffic. For the purposes of this analysis, two single-direction cameras facing opposite directions (i.e. on opposite sides of the same street) were considered as one camera "location." Sixteen ASE cameras were relocated in 2022-23. The relocated cameras are marked with an asterisk (*) in the list below. The new locations are not included in this analysis since they were operational for only a relatively short time during the 2022-23 period.

Automated Speed Enforcement Camera Before and After Safety Impact Analysis

No.	Camera_ID	Address	Safety Zone	Enforced Directions of Travel	Ward(s)	2012-2013					2022-2023				
						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	EB WB	39	15	4	3	1	0	19	2	1	1	3
2	CHI004	5120 N Pulaski Rd	Gompers Park	NB SB	39	86	16	1	4	6	49	10	2	4	2
3	CHI005	2080 W Pershing Rd	McKinley Park	EB WB	12	13	1	0	2	1	28	5	0	0	1
4	CHI007*	3843 S Western Blvd	McKinley Park	NB SB	19	118	27	2	11	9	201	49	1	19	23
5	CHI008	3655 W Jackson Blvd	Garfield Park	EB WB	28	3	1	0	0	0	7	3	0	1	1
6	CHI009	3646 W Madison St	Garfield Park	EB WB	28	2	2	0	0	0	11	6	0	2	3
7	CHI010	1111 N Humboldt Blvd	Humboldt Park	NB SB	26	33	9	2	0	4	30	8	1	1	6
8	CHI011	3100 W Augusta Blvd	Humboldt Park	EB WB	26	11	2	1	2	0	19	4	0	3	1
9	CHI013	5330 Cottage Grove	Washington Park	NB SB	4 (5)	25	7	2	2	1	37	6	2	5	2
10	CHI014 CHI018	6909 S Kedzie Ave 6818 S Kedzie Ave	Marquette Park	NB SB	17	2	0	0	1	0	4	1	0	0	1
11	CHI015	3450 W 71ST ST	Marquette Park	EB WB	17	7	0	0	0	1	24	4	1	1	2
12	CHI019 CHI020	2917 W Roosevelt 2912 W Roosevelt Rd	Douglas Park	EB WB	28,24	33	9	5	5	5	43	7	2	2	5
13	CHI021	2900 W Ogden Ave	Douglas Park	EB WB	24	2	0	0	0	0	5	2	0	0	1
14	CHI022 CHI023	11153 S Vincennes 11144 S Vincennes	Morgan Park	SB NB	19,34	60	12	5	8	9	74	16	6	9	6
15	CHI024	3137 W Peterson	Legion Park	EB WB	39 (50)	122	22	7	6	8	88	15	3	4	6
16	CHI025	3034 W Foster Ave	Legion Park	EB WB	40 (33)	22	5	1	4	3	13	3	1	2	1
17	CHI026 CHI027	3521 N Western 3534 N Western	Lane Tech HS	NB SB	47	137	31	11	11	12	104	11	2	8	12
18	CHI028	2549 W Addison	Lane Tech HS	EB WB	47	11	2	1	0	1	22	1	0	2	1
19	CHI029	536 E Morgan Dr	Washington Park	EB WB	20	8	1	0	2	0	18	6	1	0	0
20	CHI030 CHI031	4929 S Pulaski 5030 S Pulaski	Curie HS	NB SB	14	193	43	10	37	17	152	18	4	16	6
21	CHI032	4925 S Archer	Curie HS	EB SWB	14	31	4	1	4	1	62	7	1	6	4
22	CHI033 CHI034	629 State St 630 State St	Jones HS	NB SB	4	180	49	23	21	9	178	23	14	16	9
23	CHI035 CHI036	57 E 95th St 62 E 95th St	Abbott Park	WB EB	9	78	9	5	9	12	77	10	0	7	12
24	CHI039 CHI040	6247 W Fullerton 6250 W Fullerton	Riis Park	EB WB	36, 30	27	3	1	1	1	39	7	2	4	2
25	CHI041 CHI042	5509 W Fullerton 5446 W Fullerton	Charles Prosser School	EB WB	36, 30	76	14	9	7	6	81	13	5	12	6
26	CHI043	5440 W Grand	Charles Prosser School	EB WB	36 (37)	11	4	1	2	1	18	2	0	1	2
27	CHI044	4843 W Fullerton	St. Genevieve School	EB WB	31	172	26	9	19	17	157	27	5	14	8
28	CHI045	445 W 127th St	Major Taylor Bike Park	EB WB	9	8	3	1	1	1	10	1	0	1	0
29	CHI048	3843 W 111th	Chicago Agricultural HS	EB WB	12	7	1	0	1	2	8	2	1	0	2
30	CHI049	4123 N Central Ave	Portage Park	NB SB	38	94	19	9	11	4	82	12	3	10	5
31	CHI050	5454 W Irving Park	Portage Park	EB WB	38	30	3	1	1	2	33	4	1	3	2
32	CHI051	6523 N Western	Warren Park	NB SB	50	60	4	2	5	6	63	6	3	5	4
33	CHI055 CHI094	4433 N Western 4436 N Western	Welles Park	NB SB	47	99	21	6	11	7	78	18	7	6	3
34	CHI056	4432 N Lincoln	Welles Park	NB SB	47	33	8	4	3	0	30	8	2	4	2

35	CHI057 CHI130	515 S Central Ave 506 S Central Ave	Columbus Park	NB SB	29	69	14	4	8	6	94	14	5	5	7
36	CHI058	5816 W Jackson	Columbus Park	EB WB	29	113	27	11	12	4	77	13	5	3	4
37	CHI059 CHI060	5433 S Pulaski 5428 S Pulaski	Sor Juana School (formerly Hancock HS)**	NB SB	23	177	32	6	24	12	183	32	5	11	16
38	CHI061* CHI062*	4045 W 55th 4040 W 55th	John Hancock HS	EB WB	23, 13	152	24	6	20	10	147	23	3	14	15
39	CHI063	7518 S Vincennes	Harvard Elementary	NB SB	6	59	23	7	10	3	77	22	3	7	7
40	CHI064 CHI065	7739 S Western 7738 S Western	St Rita HS	NB SB	18	39	7	1	4	6	27	4	2	2	2
41	CHI067 CHI066*	2550 W 79th 2603 W 79th	St Rita HS	WB EB	18	16	7	0	2	1	19	5	0	1	2
42	CHI068 CHI069	5529 S Western 5520 S Western	Gage Park	SB NB	15	104	20	3	14	8	148	22	4	15	11
43	CHI070	2513 W 55th St	Gage Park	EB WB	15 (14)	22	2	1	2	3	31	3	2	1	3
44	CHI071 CHI072	7833 S Pulaski Rd 7826 S Pulaski Rd	Bogan HS	NB SB	18	123	32	5	19	9	92	28	7	12	18
45	CHI073 CHI074	3851 W 79th St 3832 W 79th St	Bogan HS	WB EB	18	26	8	2	4	4	38	7	2	3	6
46	CHI075* CHI076*	141 N Ashland 140 N Ashland	Union Park	NB SB	27	77	14	4	11	2	90	22	6	7	4
47	CHI077	115 N Ogden	Union Park	NB SB	27	26	7	2	4	1	38	7	3	4	1
48	CHI078	2721 W Montrose	Horner Park	EB WB	33	42	12	6	5	4	34	4	3	1	3
49	CHI079 CHI080	2705 W Irving Park 2712 W Irving Park	Horner Park	EB WB	33	53	19	7	7	6	18	4	2	1	2
50	CHI083	6226 W Irving Park Rd	Merrimac Park	EB WB	38	42	7	3	6	2	29	7	2	4	1
51	CHI086	4620 W Belmont	Parsons Park	EB WB	30 (31)	55	10	1	6	2	50	8	3	5	5
52	CHI087	3230 N Milwaukee Ave	Lorca School	NB SB	30	101	14	4	10	4	91	9	3	11	8
53	CHI088 CHI089	3809 W Belmont ave 3810 W Belmont Ave	Lorca School	EB WB	30	107	21	9	16	4	93	13	4	7	4
54	CHI090	2448 N Clybourn Ave	Schaefer Park	NB SB	32	63	9	2	6	4	55	12	3	5	6
55	CHI091 CHI092	2443 N Ashland 2432 N Ashland	Schaefer Park	SB NB	32	161	26	4	12	6	138	25	8	12	10
56	CHI093	5885 N Ridge Ave	Senn Park	NB SB	48	29	4	0	2	3	26	3	1	2	3
57	CHI095	1142 W Irving Park	Challenger Park	EB WB	46	11	5	1	1	0	11	0	0	1	0
58	CHI096 CHI097	4429 N Broadway 4446 N Broadway	Challenger Park	NB SB	46	94	17	13	6	1	101	20	12	7	4
59	CHI099 CHI098	2440 W 51st St 2445 W 51st St	Christopher School	WB EB	14	51	4	0	6	3	89	15	4	10	7
60	CHI100*	5025 S Western	Christopher School	NB SB	15 (14)	101	17	3	13	4	132	28	6	15	15
61	CHI101*	7422 S Jeffery	Rosenblum Park	NB SB	8 (7)	61	13	4	12	6	62	13	4	9	7
62	CHI102	5471 W Higgins	Jefferson Park	EB WB	45	31	2	1	4	1	27	2	0	3	2
63	CHI103	5432 W Lawrence	Jefferson Park	EB WB	45	40	5	4	4	3	37	6	3	6	1
64	CHI104 CHI132	3115 N Narragansett 3116 N Narragansett	Icci Academy School	NB SB	36	81	15	10	5	5	70	10	3	8	8
65	CHI105 CHI106	6443 W Belmont 6514 W Belmont	Icci Academy School	EB WB	36	26	7	1	1	4	24	4	0	2	0
66	CHI107 CHI108	4041 W Chicago Ave 4040 W Chicago Ave	Orr HS	EB WB	37	110	31	11	13	7	122	21	3	10	12
67	CHI109	732 N Pulaski Rd	Orr HS	NB SB	37	126	43	13	14	12	133	24	4	7	13
68	CHI110* CHI111*	2335 W Cermak Rd 2326 W Cermak Rd	Pickard School	EB WB	25	116	20	3	15	9	104	17	3	9	8
69	CHI112 CHI113	1635 N Ashland 1638 N Ashland	Burr School	NB SB	32	155	27	7	14	4	127	12	4	15	9
70	CHI114	6125 N Cicero Ave	Sauganash School	EB WB	39	39	5	1	5	4	18	2	1	0	1
71	CHI115 CHI116	4707 W Peterson Ave 4674 W Peterson Ave	Sauganash School	WB EB	39	35	7	0	7	3	26	4	0	3	2
72	CHI117	2928 S Halsted	McGuane Park	NB SB	11	35	10	5	3	4	59	8	4	5	3
73	CHI118*	5420 S Racine	Sherman Park	NB SB	20	38	8	0	4	3	27	6	1	3	3
74	CHI119 CHI121	1334 W Garfield Blvd 1315 W Garfield Blvd	Sherman Park	WB EB	20, 16	23	2	0	8	4	22	5	1	1	2
75	CHI120	10318 S Indianapolis	John Beniac-Park 499	NB SB	10	19	5	0	6	1	18	5	0	2	1

76	CHI122	3047 W Jackson Blvd	Horan Park	EB WB	28	29	4	2	4	4	43	8	1	4	3
77	CHI123	324 S Kedzie Ave	Horan Park	NB SB	28	47	12	5	3	3	40	10	3	3	1
78	CHI124 CHI125	449 N Columbus Dr 450 N Columbus Dr	Ogden Plaza Park	NB SB	42	97	20	11	5	1	105	17	11	10	4
79	CHI126	324 E Illinois St	Ogden Plaza Park	EB	42	143	29	19	8	1	140	26	14	10	4
80	CHI128 CHI127	1226 Western 1229 Western	Roberto Clemente School	SB NB	1, 26	72	16	8	8	1	63	10	1	6	5
81	CHI129	2329 Division	Roberto Clemente School	EB WB	1	80	15	8	7	2	71	14	2	8	4
82	CHI133 CHI139	19 W Chicago Ave 14 W Chicago Ave	Francis Xavier School	EB WB	2, 42	130	25	15	11	7	146	38	25	16	4
83	CHI134 CHI135	2115 S Western Ave 2108 S Western Ave	Pickard School	NB SB	25, 28	99	17	5	12	9	123	26	4	8	10
84	CHI136 CHI137	346 W 76th St 341 W 76th St	Harvard School	WB EB	6, 17	73	21	4	10	6	78	20	4	6	11
85	CHI138	1901 E 75th St	Rosenblum Park	EB WB	8	11	3	1	0	1	23	4	1	4	1
86	CHI140 CHI141	3535 E 95th St 3542 E 95th St	Calumet Park	EB WB	10	61	13	2	4	4	44	8	1	6	0
87	CHI142	9618 S Ewing Ave	Calumet Park	NB SB	10	27	10	1	3	2	26	4	1	3	3
88	CHI143*	1440 W Cermak Rd	Benito Juarez High School	WB EB	25	24	6	2	7	2	28	6	1	2	3
89	CHI144*	3200 S Archer Ave	Mulberry Park	EB WB	25 (12)	19	1	1	1	1	49	12	0	4	4
90	CHI145	2109 E 87th St	Chicago Vocational HS	EB WB	8	14	4	2	2	2	14	3	0	2	1
91	CHI146	215 E 63rd St	Dulles Elementary School	EB WB	20	25	4	1	3	2	43	15	2	4	2
92	CHI147*	4831 W Lawrence Ave	Ashmore Park	EB WB	45	146	21	3	21	9	84	10	0	12	3
93	CHI148	6330 S Martin Luther King Dr	Dulles Elementary School	NB SB	20	106	37	14	19	12	118	37	6	10	8
94	CHI149	4909 N Cicero Ave	Ashmore ParK	NB SB	39 (45)	19	2	0	1	0	18	2	0	1	1
95	CHI154 CHI165	2416 W 103rd St 2417 W 103rd St	Beverly Park	WB EB	19	85	13	1	7	15	95	17	2	13	11
96	CHI156*	5739 N Northwest Hwy	Taft High School	NB SB	41 (45)	6	0	0	1	0	10	1	0	1	2
97	CHI157	1754 N Pulaski Rd	Keystone Park	SB	26 (35)	45	12	5	5	3	48	10	4	6	2
98	CHI158	6510 W Bryn Mawr Ave	Taft High School	WB	41	14	2	2	6	5	17	2	1	2	6
99	CHI159 CHI161	4053 W North Ave 4042 W North Ave	Keystone Park	EB WB	26	113	28	6	12	5	75	11	2	12	6
100	CHI160*	4042 W Roosevelt Rd	Frazier Magnet School	EB WB	24	96	20	9	13	3	96	28	5	7	8
101	CHI162 CHI163	1117 S Pulaski Rd 1110 S Pulaski Rd	Frazier Magnet School	NB SB	24	111	26	12	13	4	102	28	6	8	7
102	CHI164	5532 S Kedzie Ave	St. Gall Elementary School	NB SB	14	113	18	5	16	9	185	29	5	16	21
103	CHI166 CHI167	3217 W 55th St 3212 W 55th St	St. Gall Elementary School	EB WB	14	140	22	8	20	8	198	26	5	15	20
104	CHI169 CHI168	8318 S Ashland Ave 8345 S Ashland Ave	Foster Park	SB NB	21	90	18	4	9	9	83	17	4	11	8
105	CHI170	1507 W 83rd St	Foster Park	EB WB	21	17	3	1	1	0	20	4	0	4	1
106	CHI171 CHI172	3111 N Ashland Ave 3130 N Ashland Ave	Burley Elementary School	NB EB	32	119	26	18	15	5	85	15	8	6	3
107	CHI173	5006 S Western Blvd	Christopher School	NB SB	15	105	19	3	15	3	126	25	5	10	13
108	CHI174	8020 W Forest Preserve Ave	Hiawatha Park	EB WB	38	27	6	0	2	1	19	3	0	4	2
109	CHI175 CHI176	8043 W Addison St 8006 W Addison St	Hiawatha Park	EB WB	38	28	6	0	4	1	16	2	0	3	1
110	CHI177	3911 W Diversey Ave	Kosciuszko Park	EB WB	30 (31)	42	10	4	4	7	49	6	3	4	2
111	CHI178 CHI179	4319 W 47th St 4246 W 47th St	Acero Major Hector Garcia HS	EB WB	14	48	9	2	3	6	62	9	0	3	5
112	CHI180 CHI184	7157 S South Chicago Ave 7122 S South Chicago Ave	Gary Comer HS	NWB SEB	5	72	18	3	15	4	102	26	3	8	5
113	CHI181	819 E 71st St	Gary Comer HS	EB WB	5 (6)	69	17	3	14	4	54	11	2	3	3
114	CHI182 CHI183	1455 W Division St 1444 W Division St	North Montessori School	EB WB	27 (2)	99	26	18	6	3	61	12	8	5	3
115	CHI185	1330 W 76th St	MLK Park	EB WB	17	30	5	0	1	0	38	5	0	5	1
					Total	7348	1508	496	848	492	7465	1363	340	683	582

*** Following CPS change, John Hancock HS became Sor Juana Elementary.*

Total Speed Cameras for 2022-23

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