

Chicago Automated Speed Enforcement Camera Before and After Safety Impact Analysis

As of January 1, 2020 the City of Chicago has 161 automated speed enforcement cameras deployed at 68 child safety zones with 96 cameras enforcing speed in one direction of travel, and 65 cameras enforcing speed in both directions of travel. 84 cameras were deployed at 39 park zones; 77 cameras were deployed at 29 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. These 12 cameras are not part of this analysis, due to the lack of a full two years of “before and after” data.

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 2017-2018 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 2017-2018, the number of crashes for all crash types considered in this analysis – except bicycle and pedestrian – increased, both city-wide and at automated speed enforcement locations. However, increases experienced at automated speed enforcement camera locations were significantly lower than those experienced throughout the city as a whole. This fact attests to the effectiveness of the cameras.

- Fatal or serious injury crashes increased 1% near speed cameras between 2012-13 and 2017-18, compared to a 19% increase city-wide.
- Between 2012-13 and 2017-18, overall crash totals increased 4% in the automated speed enforcement locations, compared to a 26% increase in all crashes city-wide.
- Speed-related crashes increased 25% near speed cameras, compared to a 75% increase city-wide.

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	682	651
2017-2018	7078	1407	390	852	672
% Change	4%	1%	-16%	25%	3%
City-Wide	Total Crashes	Fatal and Injury Crashes	Bicycle and Pedestrian Crashes	Speed-Related Crashes	Youth-Related Crashes
2012-2013	137218	27001	8677	13114	12375
2017-2018	172498	32263	8169	22942	14617
% Change	26%	19%	-6%	75%	18%

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 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, CHI164, CHI166, and CHI167) and are denoted with an * in the list below. Twelve cameras were activated in 2018, and therefore were not used for this analysis.

Automated Speed Enforcement Camera Before and After Safety Impact Analysis

No	Camera_ID	Address	Safety Zone	2012-2013					2017-2018				
				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	15	4	3	1	0	21	1	1	2	0
2	CHI004	5120 N Pulaski Rd	Gompers Park Speed Camera NB SB	86	16	1	4	7	62	15	1	8	6
3	CHI005	2080 W Pershing Rd	McKinley Park Speed Camera EB WB	13	1	0	1	1	26	5	2	2	2
4	CHI007	3843 S Western Blvd	McKinley Park Speed Camera NB SB	118	27	2	13	14	146	32	2	13	26
5	CHI008	3655 W Jackson Blvd	Garfield Park Speed Camera EB WB	3	1	0	0	0	4	15	0	1	0
6	CHI009	3646 W Madison St	Garfield Park Speed Camera EB WB	2	2	0	1	0	28	10	2	5	4
7	CHI010	1111 N Humboldt Blvd	Humboldt Park Speed Camera NB SB	33	9	2	0	6	31	5	2	5	2
8	CHI011	3100 W Augusta Blvd	Humboldt Park Speed Camera EB WB	11	2	1	3	0	11	1	0	2	2
9	CHI013	5330 Cottage Grove	Washington Park Speed Camera NB SB	25	7	2	1	4	20	6	1	8	0
10	CHI014 CHI018	6909 S Kedzie Ave 6818 S Kedzie Ave	Marquette Park Speed Camera NB SB	2	0	0	1	0	1	0	0	0	0
11	CHI015	3450 W 71ST ST	Marquette Park Speed Camera EB WB	7	0	0	0	1	15	3	2	0	4
12	CHI019 CHI020	2917 W Roosevelt 2912 W Roosevelt Rd	Douglas Park Speed Camera EB WB	33	9	5	2	5	31	4	0	6	3
13	CHI021	2900 W Ogden Ave	Douglas Park Speed Camera EB WB	2	0	0	0	0	3	0	0	0	0
14	CHI022 CHI023	11153 S Vincennes 11144 S Vincennes	Morgan Park Speed Camera SB NB	60	12	5	3	13	67	16	4	11	8
15	CHI024	3137 W Peterson	Legion Park Speed Camera EB WB	122	22	7	6	12	84	19	5	3	3
16	CHI025	3034 W Foster Ave	Legion Park Speed Camera EB WB	22	5	1	3	4	20	4	2	1	3
17	CHI026 CHI027	3521 N Western 3534 N Western	Lane Tech HS Speed Camera NB SB	137	31	11	7	12	97	19	4	5	13
18	CHI028	2549 W Addison	Lane Tech HS Speed Camera EB WB	11	2	1	0	1	20	4	0	3	2
19	CHI029	536 E Morgan Dr	Washington Park Speed Camera EB WB	8	1	0	2	0	11	2	0	1	1
20	CHI030 CHI031	4929 S Pulaski 5030 S Pulaski	Curie HS Speed Camera NB SB	193	43	10	33	23	125	11	4	15	14
21	CHI032	4925 S Archer	Curie HS Speed Camera NEB SWB	31	4	1	3	2	44	6	1	8	4
22	CHI033 CHI034	629 State St 630 State St	Jones HS Speed Camera NB SB	180	49	23	18	13	221	28	14	11	9
23	CHI035 CHI036	57 E 95th St 62 E 95th St	Abbott Park Speed Camera WB EB	39	5	1	5	6	58	12	2	9	1
24	CHI039 CHI040	6247 W Fullerton 6250 W Fullerton	Riis Park Speed Camera EB WB	27	3	1	1	2	23	4	1	1	2
25	CHI041 CHI042	5509 W Fullerton 5446 W Fullerton	Charles Prosser School Speed Camera EB WB	30	3	1	0	4	33	2	1	6	3
26	CHI043	5440 W Grand	Charles Prosser School Speed Camera EB WB	11	4	1	1	2	22	2	1	4	3
27	CHI044	4843 W Fullerton	St. Genevieve School Speed Camera EB WB	172	26	9	15	21	153	34	5	25	30
28	CHI045	445 W 127th St	Major Taylor Bike Park Speed Camera EB WB	8	3	1	1	3	7	0	0	1	0
29	CHI048	3843 W 111th	Chicago Agricultural HS Speed Camera EB WB	7	1	0	0	2	20	0	0	2	3
30	CHI049	4123 N Central Ave	Portage Park Speed Camera NB SB	94	19	9	12	10	70	12	1	10	10
31	CHI050	5454 W Irving Park	Portage Park Speed Camera EB WB	31	2	1	4	2	38	1	1	3	2
32	CHI051	6523 N Western	Warren Park Speed Camera NB SB	60	4	2	4	9	56	16	6	5	6
33	CHI055 CHI094	4433 N Western 4436 N Western	Welles Park Speed Camera NB SB	99	21	6	12	7	104	20	6	11	8
34	CHI056	4432 N Lincoln	Welles Park Speed Camera NB SB	33	8	4	3	0	37	9	5	3	5
35	CHI057 CHI130	515 S Central Ave 506 S Central Ave	Columbus Park Speed Camera NB SB	69	14	4	8	7	94	23	5	18	7
36	CHI058	5816 W Jackson	Columbus Park Speed Camera EB WB	6	0	0	1	0	6	0	0	1	0
37	CHI059 CHI060	5433 S Pulaski 5428 S Pulaski	John Hancock HS Speed Camera NB SB	177	32	6	24	19	199	29	6	25	22
38	CHI061 CHI062	4045 W 55th 4040 W 55th	John Hancock HS Speed Camera EB WB	152	24	6	22	16	144	16	4	25	13
39	CHI063	7518 S Vincennes	Harvard Elementary Speed Camera NB SB	59	23	7	8	6	76	25	7	12	9
40	CHI064 CHI065	7739 S Western 7738 S Western	St Rita HS Speed Camera NB SB	39	7	1	4	6	25	5	3	2	3
41	CHI067 CHI066	2550 W 79th 2603 W 79th	St Rita HS Speed Camera WB EB	16	7	0	2	1	19	3	1	2	2

42	CHI068 CHI069	5529 S Western 5520 S Western	Gage Park Speed Camera SB NB	104	20	3	14	11	137	22	4	20	17
43	CHI070	2513 W 55th St	Gage Park Speed Camera EB WB	22	2	1	2	4	35	6	2	3	6
44	CHI071 CHI072	7833 S Pulaski Rd 7826 S Pulaski Rd	Bogan HS Speed Camera NB SB	123	32	5	17	11	99	19	6	17	9
45	CHI073 CHI074	3851 W 79th St 3832 W 79th St	Bogan HS Speed Camera WB EB	26	8	2	4	5	40	7	3	4	2
46	CHI075 CHI076	141 N Ashland 140 N Ashland	Union Park Speed Camera NB SB	77	14	4	9	4	84	13	4	11	10
47	CHI077	115 N Ogden	Union Park Speed Camera NB SB	26	7	2	2	1	41	4	3	3	1
48	CHI078	2721 W Montrose	Horner Park Speed Camera EB WB	42	12	6	2	4	39	12	3	3	4
49	CHI079 CHI080	2705 W Irving Park 2712 W Irving Park	Horner Park Speed Camera EB WB	53	19	7	4	6	20	4	0	2	2
50	CHI083	6226 W Irving Park Rd	Merrimac Park Speed Camera EB WB	42	7	3	6	3	20	4	1	3	2
51	CHI086	4620 W Belmont	Parsons Park Speed Camera EB WB	55	10	1	6	5	49	4	0	6	2
52	CHI087	3230 N Milwaukee Ave	Lorca School Speed Camera NB SB	101	14	4	7	6	83	14	5	5	4
53	CHI088 CHI089	3809 W Belmont ave 3810 W Belmont Av	Lorca School Speed Camera EB WB	107	21	9	13	6	79	15	6	4	6
54	CHI090	2448 N Clybourn Ave	Schaefer Park Speed Camera NB SB	63	9	2	6	5	54	9	2	5	3
55	CHI091 CHI092	2443 N Ashland 2432 N Ashland	Schaefer Park Speed Camera SB NB	161	26	4	11	9	125	23	3	13	8
56	CHI093	5885 N Ridge Ave	Senn Park Speed Camera NB SB	113	27	11	11	8	75	17	2	4	7
57	CHI095	1142 W Irving Park	Challenger Park Speed Camera EB WB	11	5	1	1	1	14	5	0	0	1
58	CHI096 CHI097	4429 N Broadway 4446 N Broadway	Challenger Park Speed Camera NB SB	94	17	13	1	1	99	18	9	6	3
59	CHI099 CHI098	2440 W 51st St 2445 W 51st St	Christopher School Speed Camera WB EB	51	4	0	5	5	76	15	4	5	11
60	CHI100	5025 S Western	Christopher School Speed Camera NB SB	101	17	3	9	8	118	30	6	17	19
61	CHI101	7422 S Jeffery	Rosenblum Park Speed Camera NB SB	61	13	4	10	7	73	14	3	9	8
62	CHI102	5471 W Higgins	Jefferson Park Speed Camera EB WB	76	14	9	7	7	88	24	9	5	5
63	CHI103	5432 W Lawrence	Jefferson Park Speed Camera EB WB	40	5	4	3	5	47	9	2	3	1
64	CHI104 CHI132	3115 N Narragansett 3116 N Narragansett	Icci Academy School Speed Camera NB SB	81	15	10	3	6	79	11	1	7	12
65	CHI105 CHI106	6443 W Belmont 6514 W Belmont	Icci Academy School Speed Camera EB WB	26	7	1	1	5	31	4	1	4	3
66	CHI107 CHI108	4041 W Chicago Ave 4040 W Chicago Ave	Orr HS Speed Camera EB WB	110	31	11	13	9	96	23	8	13	8
67	CHI109	732 N Pulaski Rd	Orr HS Speed Camera NB SB	126	43	13	14	14	115	29	7	17	9
68	CHI110 CHI111	2335 W Cermak Rd 2326 W Cermak Rd	Pickard School Speed Camera EB WB	116	20	3	14	11	113	25	7	17	14
69	CHI112 CHI113	1635 N Ashland 1638 N Ashland	Burr School Speed Camera NB SB	155	27	7	12	6	139	26	3	16	6
70	CHI114	6125 N Cicero Ave	Sauganash School Speed Camera EB WB	29	4	0	2	3	35	8	2	5	3
71	CHI115 CHI116	4707 W Peterson Ave 4674 W Peterson Av	Sauganash School Speed Camera WB EB	35	7	0	5	5	18	0	0	3	0
72	CHI117	2928 S Halsted	McGuane Park Speed Camera NB SB	35	10	5	2	4	50	8	5	8	7
73	CHI118	5420 S Racine	Sherman Park Speed Camera NB SB	38	8	0	4	5	30	10	2	7	2
74	CHI119 CHI121	1334 W Garfield Blvd 1315 W Garfield Blvd	Sherman Park Speed Camera WB EB	23	2	0	6	6	22	5	1	4	3
75	CHI120	10318 S Indianapolis	John Beniac-Park 499 Speed Camera NB SB	19	5	0	5	1	15	1	0	2	1
76	CHI122	3047 W Jackson Blvd	Horan Park Speed Camera EB WB	29	4	2	3	4	48	13	2	6	5
77	CHI123	324 S Kedzie Ave	Horan Park Speed Camera NB SB	47	12	5	4	5	50	12	2	15	8
78	CHI124 CHI125	449 N Columbus Dr 450 N Columbus Dr	Ogden Plaza Park Speed Cameras NB SB	97	20	11	5	2	153	28	15	18	4
79	CHI126	324 E Illinois St	Ogden Plaza Park Speed Camera EB	143	29	19	6	3	199	35	18	24	8
80	CHI128 CHI127	1226 Western 1229 Western	Roberto Clemente School Speed Camera SB NB	72	16	8	6	2	84	19	4	9	10
81	CHI129	2329 Division	Roberto Clemente School Speed Camera EB WB	80	15	8	6	2	73	17	3	8	11
82	CHI133 CHI139	19 W Chicago Ave 14 W Chicago Ave	Francis Xavier School Speed Camera EB WB	130	25	15	11	7	161	42	27	10	8
83	CHI134 CHI135	2115 S Western Ave 2108 S Western Ave	Pickard School Speed Camera NB SB	99	17	5	12	11	114	28	6	19	14
84	CHI136 CHI137	346 W 76th St 341 W 76th St	Harvard School Speed Camera WB EB	73	21	4	9	12	91	25	5	10	9
85	CHI138	1901 E 75th St	Rosenblum Park Speed Camera EB WB	11	3	1	0	1	8	1	0	2	0
86	CHI140 CHI141	3535 E 95th St 3542 E 95th St	Calumet Park Speed Camera EB WB	61	13	2	4	7	56	9	2	7	6
87	CHI142	9618 S Ewing Ave	Calumet Park Speed Camera NB SB	27	10	1	3	2	23	5	0	3	1
88	CHI143	1440 W Cermak Rd	Benito Juarez High School Speed Camera WB EB	24	6	2	7	2	52	13	1	10	7

89	CHI144*	3200 S Archer Ave	Mulberry Park Speed Camera EB WB	19	1	1	1	2	42	3	1	5	1
90	CHI145	2109 E 87th St	Chicago Vocational HS Speed Camera EB WB	14	4	2	2	2	11	2	2	1	3
91	CHI146	215 E 63rd St	Dulles Elementary School Speed Camera EB WB	25	4	1	4	2	41	14	1	4	7
92	CHI147	4831 W Lawrence Ave	Ashmore Park Speed Camera EB WB	146	21	3	18	11	126	15	3	15	8
93	CHI148	6330 S Martin Luther King Dr	Dulles Elementary School Speed Camera NB SB	106	37	14	16	18	136	43	12	20	12
94	CHI149	4909 N Cicero Ave	Ashmore Park Speed Camera NB SB	19	2	0	1	0	45	5	0	10	4
95	CHI154 CHI165	2416 W 103rd St 2417 W 103rd St	Beverly Park Speed Camera WB EB	85	13	1	5	19	105	17	2	9	13
96	CHI156	5739 N Northwest Hwy	Taft High School Speed Camera NB SB	78	9	5	9	14	57	9	2	6	4
97	CHI157*	1754 N Pulaski Rd	Keystone Park Speed Camera SB	45	12	5	4	5	47	7	3	7	1
98	CHI158	6510 W Bryn Mawr Ave	Taft High School Speed Camera WB	14	2	2	5	5	15	3	1	4	6
99	CHI159* CHI161*	4053 W North Ave 4042 W North Ave	Keystone Park Speed Camera EB WB	113	28	6	12	8	111	24	8	18	8
100	CHI160	4042 W Roosevelt Rd	Frazier Magnet School Speed Camera EB WB	96	20	9	7	7	96	41	14	16	18
101	CHI162 CHI163	1117 S Pulaski Rd 1110 S Pulaski Rd	Frazier Magnet School Speed Camera NB SB	111	26	12	8	9	96	38	13	13	14
102	CHI164*	5532 S Kedzie Ave	St. Gall Elementary School Speed Camera NB SB	113	18	5	14	14	147	17	4	15	16
103	CHI166* CHI167*	3217 W 55th St 3212 W 55th St	St. Gall Elementary School Speed Camera EB WB	140	22	8	19	14	152	18	6	17	13
104	CHI169 CHI168	8318 S Ashland Ave 8345 S Ashland Ave	Foster Park Speed Camera SB NB	90	18	4	9	15	100	23	6	12	6
105	CHI170	1507 W 83rd St	Foster Park Speed Camera EB WB	17	3	1	0	2	22	6	2	4	3
106	CHI171 CHI172	3111 N Ashland Ave 3130 N Ashland Ave	Burley Elementary School Speed Camera NB EB	119	26	18	12	6	107	18	9	9	10
Total				6828	1392	463	682	651	7078	1407	390	852	672

** 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
1	CHI173	5006 S Western Blvd	Christopher School Speed Camera NB SB
2	CHI174	8020 W Forest Preserve Ave	Hiawatha Park Speed Camera EB WB
3	CHI175	8043 W Addison St	Hiawatha Park Speed Camera EB
4	CHI176	8006 W Addison St	Hiawatha Park Speed Camera WB
5	CHI177	3911 W Diversey Ave	Kosciuszko Park Speed Camera EB WB
6	CHI178	4319 W 47th St	Acero Major Hector Garcia HS Speed Camera EB
7	CHI179	4246 W 47th St	Acero Major Hector Garcia HS Speed Camera WB
8	CHI180	7157 S South Chicago Ave	Gary Comer HS Speed Camera NWB
9	CHI181	819 E 71st St	Gary Comer HS Speed Camera EB WB
10	CHI182	1455 W Division St	North Montessori School Speed Camera EB
11	CHI183	1444 W Division St	North Montessori School Speed Camera WB
12	CHI184	7122 S South Chicago Ave	Gary Comer HS Speed Camera SEB

<p>Total Speed Cameras for 2019</p> <p>161</p>
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