

Community/Location	Measures	Accidents			Volume	Comments
		Before	After	% Change	% Change	
Boulder, CO						
Arapahoe Ave	Circles	0	1	+	-4	Intersection accidents only - 1994 vs. 1996
Maxwell and 6th St	Circle	1	0	-100		Intersection accidents only - 1994 vs. 1996
Evergreen and 9th St	Circles	2	0	-100	-41	Intersection accidents only - 1992/1993 vs. 1995/1996
Balsam Ave	Circles	2	0	-100	-24	Intersection accidents only - 1994 vs. 1996
Pine St	Circles	6	12	100	-16	Intersection accidents only - 1994 vs. 1996
Dayton, OH						
Five Oaks Ave (between Richmond & Old Orchard)	12' humps	4	2	-50		Closure at one end and STOP sign at other
Harvard Blvd	12' humps	8	10	25	-12	Annualized based on half of 1992 compared to half of 1993
Homewood Ave (between Old Orchard & Forest Ave)	12' hump	0	0	0	-46	
Richmond Ave (between Five Oaks & Delaware Ave)	12' humps	10	0	-100		Closure at one end and STOP sign at other
Howard County, MD						
Baltimore Ave	12' humps	2.4	.4	-83		Average Annual based on 8 years before installation and 8 years after installation
Eliots Oak Rd	22' tables	5.7	1.7	-70	-5, -19	Average Annual (3 years before and after)
Herperus Dr	22' tables	3.7	1	-73	-20, -22	Over 3 years
Montgomery County, MD						
Notley Rd	12' humps	0	0	0	-37	One year before installation compared to most recent 12 months
Aberdeen Rd	12' humps	0	0	0	-44	
Shorefield Rd	12' humps	3	2	-33	-23	
Westbard Ave	12' humps	0	1	+	-7	
Thayer Ave	12' humps	5	4	-20	-9	
Burdette Rd	12' humps	1	1	0	-17	
Lilly Stone Dr	12' humps	0	0	0	-38	
Northwest Dr	12' humps	0	0	0	-72	

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Montgomery County, MD (continued)						
Stapleford Hall Dr	12' humps	1	0	-100	-21	
Briardale Rd	12' humps	1	0	-100	-12	
George Washington Dr	12' humps	0	0	0	-13	
Mill Creek Dr	12' humps	1	0	-100	-46	
Wayfarer Rd	12' humps	1	0	-100	-52	
Hermitage Rd	12' humps	2	0	-100	-35	
Overlea Dr	12' humps	0	1	+	-56	
				undefined		
Bel Pre Rd	22' tables	6	4	-33	1	
Morningwood Dr	22' tables	3	0	-100	-27	
Brickyard Rd	Circle	4	2	-50	-39	
Sugarbush Ln	Circle	1	0	-100	-11	
Notley Rd	Circle	6	4	-33	-43	
Cherry Valley Dr	Circle	4	2	-50	-49	
Omaha, NE						
32nd St	12' humps	3	6	100		Midblock accidents - same number of months before and after installation
Erskine St	12' humps	6	11	83		
Burke St (between 121st and 122nd St)	12' humps	7	4	-43		
Burke St (between 122nd and 123rd St)	12' humps	8	1	-88		
33rd St (between Mason and Pacific St)	12' humps	0	3	+		
				undefined		
33rd St (between Pacific St and Poppleton Ave)	12' humps	1	3	200		
50th St	12' humps	1	3	200		
55th St (between Pine and Hickory St)	12' humps	0	0	0		
55th St (between Hickory and Walnut Sts)	12' humps	0	0	0		
56th St (between Charles and Hamilton Sts)	12' humps	0	0	0		
56th St (between Franklin and Seward Sts)	12' humps	0	0	0		
76th St (between Burt and Webster Sts)	12' humps	0	1	+		
				undefined		
76th St (between Burt and Iazard Sts)	12' humps	0	0	0		
126th St	12' humps	0	1	+		
				undefined		
Nina St	12' humps	3	2	-33		

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Omaha, NE (continued)						
Parkview Dr (between Grand Ave and Saratoga St)	12' humps	0	1	+		
Parkview Dr (at Larimore Ave)	12' humps	0	0	0		
Parkview Dr (between Sahler and Sprague Sts)	12' humps	1	1	0		
Redick Ave (between Minne Lusa Blvd and 28th Ave)	12' humps	0	3	+		
Portland, OR						
NE 7th Ave	Circles	18.3	10	-45	-15	Average Annual (36 months before and after)
SE Clinton St (#1)	Circles	33.5	26.8	-20	-17	Average Annual (52 months before and after)
SE Clinton St (#2)	Circles	8.1	4.6	-43	-43	Average annual based on 52 months
NE Holman St	Circles	4.9	4.7	-4	-21	Average annual based on 74 months
NE 1st Ave	Circles	1.8	1.6	-11	0	Average annual based on 61 months
NE 24th Ave	Circles	3.7	1.2	-68	-9	Average annual based on 61 months
NW 25th Ave	Circles	3.9	1.9	-51	-17	Average annual based on 76 months
NW Raleigh St	Circles	0	.2	+	-29	Average annual based on 76 months
NW Cornell Rd	22' tables	.4	.8	100	-1	Average annual based on 29 months
NE 15th Ave (#1)	22' tables	12.8	6.4	-50	-20	Average annual based on 15 months
NE 15th Ave (#2)	22' tables	12.5	7.4	-41	-20	Average annual based on 26 months
SE Harold St	22' tables	9.6	8	-17	-39	Average annual based on 15 months
N Macrum St	14' humps	1.2	.9	-25	-23	Average annual based on 41 months
NE Pacific St	14' humps	2.9	3.2	10	0	Average annual based on 41 months
NE 108th Ave	14' humps	1.5	.9	-40	-9	Average annual based on 41 months
SE 55th Ave	14' humps	3.8	1.2	-68	-17	Average annual based on 41 months
SW Boones Ferry Rd	14' humps	12.4	6.9	-44	-62	Average annual based on 28 months
San Diego, CA						
Aquarius Dr	12' humps	1	0	-100	-45	Injury accidents - 1994 compared to 1995 - comparisons also on a million vehicle-mile basis
Avenida Del Gato	12' humps	2	0	-100	-58	
Bootes St	12' humps	2	0	-100	-18	
Capicorn Way	12' humps	13	8	-38		
Libra Dr	12' humps	0	1	+	-52	
San Jose, CA						
Cinderella Ln	12' humps	2.3	1.5	-35		Average annual based on 16 months
Seattle, WA						
1st Ave (76th and 77th Sts. NW)	Circle	3	1	-100		Intersection accidents only - calendar year before treatment compared to calendar year after treatment
11th Ave and 58th St NW	Circle	2	0	-100		
14th Ave E and Olive St	Circle	1	0	-100		
16th Ave and 55th St NE	Circle	1	0	-100		

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Seattle, WA (continued)						
17th Ave and Trenton St SW	Circle	1	0	-100		Intersection accidents only - calendar year before treatment compared to calendar year after treatment
18th Ave and 87th St NW	Circle	0	0	0		
18th Ave and Brandon St SW	Circle	2	0	-100		
22nd Ave and 75th St NW	Circle	4	0	-100		
27th Ave E and Fir St	Circle	1	0	-100		
27th Ave E and Pike St	Circle	0	1	undefined		
32nd Ave and Othello St SW	Circle	2	0	-100		
35th Ave and 140th St NE	Circle	1	0	-100		
39th Ave and Lucile St S	Circle	2	0	-100		
39th Ave and Charlestown St SW	Circle	1	0	-100		
40th Ave and Dawson St SW	Circle	2	0	-100		
46th Ave and Alaska St S	Circle	1	0	-100		
49th Ave and Oregon St S	Circle	1	0	-100		
56th Ave and 58th St NE	Circle	0	0	0		
9th Ave and 56th St NW	Circle	0	0	0		
Densmore Ave and 47th St N	Circle	4	0	-100		
Keystone Pl and 51st St N	Circle	3	1	-100		
Linden Ave and 87 St N	Circle	1	1	0		
Minor Ave and Union St	Circle	1	0	-100		
North Park Ave & 109 St N	Circle	1	0	-100		
Phinney Ave and 112 St N	Circle	0	0	0		
Phinney Ave and 42 St N	Circle	2	0	-100		
Sunnyside Ave and 42nd St	Circle	1	0	-100		
Whitman Ave and 47th St	Circle	2	0	-100		
1st Ave and 127th St NW	Circle	2	0	-100		
1st Ave and 95th St NW	Circle	1	0	-100		
12th Ave and 90th St NW	Circle	3	0	-100		
12th Ave & Cloverdale St SW	Circle	1	0	-100		
14th Ave and 90th St NW	Circle	1	0	-100		
16th Ave and Howell St E	Circle	3	2	-33		
17th Ave and Harrison St E	Circle	0	0	0		
17th Ave and 60th St NW	Circle	1	0	-100		
17th Ave and 83rd St NW	Circle	1	0	-100		
19th Ave and 107th St NE	Circle	1	0	-100		
30th Ave & Henderson St SW	Circle	4	0	-100		
34th Ave and 57th St NW	Circle	0	0	0		
37th Ave and Dakota St S	Circle	4	0	-100		
37th Ave and Dakota St SW	Circle	1	0	-100		
38th Ave and 88th St NE	Circle	2	0	-100		

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Seattle, WA (continued)						
4th Ave and 122nd St NW	Circle	1	0	-100		Intersection accidents only - calendar year before treatment compared to calendar year after treatment
41st Ave and Findlay St SW	Circle	1	0	-100		
44th Ave and Hinds St SW	Circle	7	0	-100		
5th Ave and Prospect St N	Circle	4	0	-100		
5th Ave and 70th St NW	Circle	2	0	-100		
6th Ave and 73rd St NW	Circle	2	0	-100		
6th Ave (81st & 82nd St NW)	Circles	4	0	-100		
8th Ave and 115th NE	Circle	0	0	0		
Ashworth Ave & 107th St N	Circle	2	0	-100		
Dayton Ave and 78th St N	Circle	2	0	-100		
Densmore Ave 103rd St N	Circle	3	0	-100		
Densmore Ave and 46th St N	Circle	2	0	-100		
Fremont Ave and 78th St N	Circle	1	0	-100		
Greenwood Ave & 45th St N	Circle	1	0	-100		
Interlake Ave and 107th St N	Circle	3	0	-100		
1st Ave and 52nd St NE	Circle	0	0	-100		Intersection accidents only - calendar year before treatment (1991) compared to calendar year after treatment
10th Ave and Rose St S	Circle	0	0	0		
11th Ave and Armour St W	Circle	0	0	0		
13th Ave and 90th St NW	Circle	1	0	-100		
14th Ave and Hanford St S	Circle	1	0	-100		
17th Ave and 107th St NE	Circle	0	0	-100		
17th Ave and 75th St NW	Circle	2	1	-50		
2nd Ave and 67th St NW	Circle	4	0	-100		
20th Ave and Fir St E	Circle	1	0	-100		
29th Ave & Washington St S	Circle	1	0	-100		
30th Ave and 94th St NE	Circle	1	0	-100		
30th Ave and Walker St S	Circle	1	0	-100		
36th Ave & Cambridge St SW	Circle	1	0	-100		
4th Ave and 44th St NE	Circle	0	0	0		
4th Ave and 62nd St NW	Circle	2	0	-100		
40th Ave and 120th St NE	Circle	2	0	-100		
41st Ave and Juneau St SW	Circle	1	0	-100		
44th Ave and Dakota St SW	Circle	2	0	-100		
46th Ave and Dawson St S	Circle	1	0	-100		
Ashworth Ave & 135th St N	Circle	1	0	-100		
Ashworth Ave & 36th St N	Circle	0	0	0		
Densmore Ave & 44th St N	Circle	1	0	-100		
Evanston Ave and 107th St N	Circle	2	0	-100		
Evanston Ave and 115th St N	Circle	1	0	-100		
Evanston Ave and 92nd St N	Circle	2	0	-100		
Fremont Ave and 67th St N	Circle	1	1	0		
Stone Ave and 103rd St N	Circle	5	0	-100		
Wallingford Ave & 51st St N	Circle	1	0	-100		

Community/Location	Measures	Accidents			Volume	Comments
		Before	After	% Change	% Change	
Seattle, WA (continued)						
1st Ave and 51st St NE	Circle	2	0	-100		Intersection accidents only - calendar year before treatment compared to calendar year after treatment
1st Ave and 110th St NW	Circle	1	0	-100		
14th Ave and Forest St S	Circle	2	0	-100		
14th Ave and Winthrop St S	Circle	0	0	0		
17th Ave and 61st NW	Circle	1	1	0		
22nd Ave and 58th St NW	Circle	1	0	-100		
23rd Pl and 135th St NE	Circle	1	0	-100		
25th Ave and Fir St E	Circle	2	0	-100		
25th Ave and Newton St E	Circle	3	0	-100		
30th Ave and 58th St NW	Circle	2	0	-100		
34th Ave and Holly St SW	Circle	1	0	-100		
38th Ave and 86th St NE	Circle	1	0	-100		
41st Ave and Garfield St E	Circle	3	0	-100		
42nd Ave and Hudson St S	Circle	2	1	-50		
42nd Ave and Genesee St SW	Circle	2	1	-50		
8th Ave and 120th St NE	Circle	1	0	-100		
8th Ave and 47th St NE	Circle	5	0	-100		
9th Ave and 67th St NW	Circle	1	0	-100		
Ashworth Ave and 97th St N	Circle	0	0	0		
Corliss Ave (42nd & 43rd St N)	Circle	4	0	-100		
Dayton Ave and 84th St N	Circle	0	0	0		
Densmore Ave and 97th St N	Circle	5	0	-100		
Division Ave and 67th St NW	Circle	2	0	-100		
Fremont Ave and 84th St N	Circle	4	0	-100		
Warren Ave and Fulton St N	Circle	1	0	-100		
Meridian Ave and 43rd St N	Circle	1	0	-100		
Ravenna Ave and 77th St NE	Circle	2	0	-100		
Tampa, FL						
Oklahoma Ave	12' humps	7.4	8.4	14	-43	Average annual reported accidents - does not adjust for lower volumes after humps installed - accident increase understated
Manhattan Ave	12' humps	4.7	11.7	149	-18	
Parkland Blvd	12' humps	8.0	5.8	-27	-33	
Azeele St	12' humps	11.3	5.6	-50	-19	
Cleveland St	12' humps	9.7	11.0	13	-35	