

Highway Safety Projects - Before and After Study Update

Projects Completed Between October 1, 2004 and September 30, 2006

Before Period=2 or 3 years/ After Period=2 or 3 years

Project title and location	Description of work	Before/ After	Available data (in years)	Collisions Per Year			
				All types	Property damage only	All injury/ fatal	Serious injury/ fatal
SR 203/Northeast 124 th / Novelty Road vicinity	Roundabout	Before	3	9.3	4.7	4.7	0.7
		After	3	8.3	7.3	1.0	0.0
I-5/ramps at Michigan-Cor- son/Albro/Swift	Shoulder rebuild	Before	3	109.7	67.7	42.0	1.3
		After	3	108.0	72.0	36.0	1.0
SR 18/Westbound to I-5	Signing	Before	3	187.0	114.0	73.0	1.3
		After	3	143.0	94.7	48.3	1.3
SR 542/Coal Creek vicinity to Excelsior Trail	Guardrail installation	Before	3	54.3	31.0	23.3	2.3
		After	3	50.3	34.0	16.3	2.0
SR 18/Weyerhauser Way Ramps	Signal and channelization	Before	3	9.0	5.0	4.0	0.0
		After	2	8.0	5.5	2.5	0.0
SR 539/King Tut Road and Bartlett Road	Channelization	Before	3	19.7	9.3	10.3	0.7
		After	2	18.0	9.5	8.5	0.0
SR 20/Oak Harbor NCL to Frostad Road	Channelization	Before	3	39.3	22.3	17.0	1.7
		After	2	31.5	19.0	12.5	1.0
US 2/179 th Ave to Woods Creek Bridge	Signal and intelligent trans- portation system (ITS) Improvements	Before	3	118.0	82.0	36.0	1.7
		After	2	105.5	74.5	31.0	1.0
SR 20/Northgate Drive to Banta Road	Roadway realignment and channelization	Before	3	6.0	2.7	3.3	0.0
		After	2	3.0	1.0	2.0	0.5
SR 9/56 th Street SE and 42 nd Street NE	Signal and channelization	Before	3	146.7	75.0	71.7	2.7
		After	2	156.0	94.0	62.0	2.0
US 2/SR 522 to Woods Creek Bridge	Access Management	Before	3	90.0	65.0	25.0	1.3
		After	2	89.5	66.0	23.5	1.0
SR 92/SR 9 to 84 th Street NE vicinity	Channelization and safety improvements	Before	3	50.7	25.7	25.0	2.0
		After	2	56.0	31.5	24.5	3.5
SR 531/33rd Avenue vicinity to 40 th Avenue NE	Access management	Before	3	65.7	50.0	15.7	2.0
		After	2	52.0	38.0	14.0	0.0
US 2/Old US 2 vicinity to junction of SR 522 vicinity	Safety Improvements and Rumble Strips	Before	3	86.7	50.3	36.3	2.0
		After	3	88.0	58.7	29.3	1.7
I-5/300 th Street NW Vicinity to Anderson Road vicinity	Median X-over (Cable)	Before	3	51.7	35.0	16.7	1.7
		After	2	83.0	61.0	22.0	1.0
I-5/SR 542 Vicinity to Bakerview Rd	Median X-over (Cable)	Before	3	40.7	26.3	14.3	0.3
		After	2	37.0	27.5	9.5	0.0
I-5/SR 11 to 36th Street	Median X-over (Cable)	Before	3	7.0	5.3	1.7	0.0
		After	2	8.5	7.5	1.0	0.0
I-5/SR 11 vicinity to Weigh Station vicinity	Median X-over (Cable)	Before	3	26.3	18.3	8.0	1.3
		After	2	28.5	21.5	7.0	0.0
SR 522/North Creek vicinity to Bear Creek vicinity	Median X-over (cable)	Before	3	13.7	9.3	4.3	0.7
		After	2	20.5	15.0	5.5	0.0
I-5/Blaine vicinity	Median X-over (Cable)	Before	3	5.7	3.3	2.3	0.0
		After	2	6.0	5.5	0.5	0.0
I-5/Main Street to SR 548	Median X-over (Cable)	Before	3	30.7	21.0	9.7	0.7
		After	2	32.5	20.5	12.0	1.5

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SR 18/SE 304 th to SR 516	Median x-over (cable)	Before	3	7.7	5.3	2.3	0.0
		After	2	17.5	12.5	5.0	0.5
SR 99/SR 599 to Holden Street	Median X-over (cable)	Before	3	10.3	6.7	3.7	0.7
		After	2	14.0	7.5	6.5	0.0
I-90/I-405 vicinity to 150 th Ave NE vicinity	Median crossover cable	Before	3	3.7	2.0	1.7	0.0
		After	2	6.5	6.0	0.5	0.0
SR 410/288 th Avenue SE to Crystal Mountain Boulevard	Centerline rumble strip	Before	3	49.7	29.0	20.7	6.0
		After	2	46.5	27.5	19.0	5.5
I-90/Silica Road to E of Adams Road	Install cable median barrier	Before	3	3.0	2.3	0.7	0.0
		After	2	5.0	4.5	0.5	0.0
I-90/SR 17 to Grant/Adams County Line	Install cable median barrier	Before	3	20.0	9.7	10.3	1.0
		After	2	19.5	13.5	6.0	1.5
US 2/Stevens Pass to Leavenworth	Install centerline rumble strips	Before	3	119.3	72.3	47.0	6.3
		After	2	112.5	68.0	44.5	8.0
US 101/W Sequim Bay Road to vicinity Dawley Road	High Accident Corridor Safety Improvements	Before	3	6.3	4.3	2.0	0.3
		After	2	12.0	6.0	6.0	1.5
SR 305/Madison Avenue	Construct signal and channelization	Before	3	11.7	6.3	5.3	0.0
		After	2	7.0	5.5	1.5	0.0
SR 104/Junction of SR 19 Intersection	Widening for auxiliary lane channelization	Before	3	4.7	2.3	2.3	0.0
		After	2	3.5	3.0	0.5	0.0
SR 512/EB Off-ramp to Pacific Avenue	Ramp improvements	Before	3	76.3	42.3	34.0	0.3
		After	2	69.0	43.0	26.0	0.5
SR 302/Elgin-Clifton Road Intersection	Install signalization	Before	3	10.0	4.3	5.7	1.0
		After	2	2.5	1.5	1.0	0.0
SR 307/Stottlemeyer Road/ Gunderson Road intersection	Signalization	Before	3	10.0	6.3	3.7	1.3
		After	2	7.0	4.0	3.0	0.0
SR 161/128 th to 176 th	Provide sidewalks and access control	Before	3	166.3	89.0	77.3	2.0
		After	2	242.5	137.5	105.0	2.0
SR 16/Wollochet Drive	Signal installation	Before	3	7.0	6.3	0.7	0.0
		After	2	3.0	2.5	0.5	0.0
I-5/Prairie Creek to Maytown	Install cable median cross-over barrier	Before	3	62.0	39.0	23.0	1.3
		After	2	67.0	49.5	17.5	1.0
SR 3/Shelton vicinity to Belfair vicinity	Construct centerline rumble strip	Before	3	87.0	47.7	39.3	7.7
		After	2	91.0	57.0	34.0	4.5
SR 161/Trek Drive E to vicinity 264 th Street E	Construct centerline rumble strip	Before	3	38.3	18.7	19.7	2.3
		After	2	41.0	21.5	19.5	1.0
SR 167/SR 410 to Pierce/King County Line	Install cable median cross over barrier	Before	3	75.3	47.3	28.0	0.7
		After	2	80.0	43.0	37.0	0.5
SR 410/Traffic Avenue to 166 th Avenue E	Install cable median cross-over barrier	Before	3	16.3	7.7	8.7	1.0
		After	2	19.5	9.5	10.0	0.5
US 12/Montesano vicinity to Elma	Install cable median cross over barrier	Before	3	47.3	33.3	14.0	3.0
		After	2	63.0	50.5	12.5	2.5
SR 14/32 nd Street	Install raised traffic island, construct merge lane	Before	3	8.0	3.3	4.7	0.7
		After	3	5.3	2.7	2.7	0.7

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I-205/Mill Plain SB Off-ramp	Construct additional left turn lane	Before	3	8.3	5.0	3.3	0.0
		After	2	7.5	5.0	2.5	0.0
I-82/Yakima to Prosser	Install environmental sensor stations and highway advisory radio	Before	3	228.7	139.3	89.3	11.7
		After	2	241.0	157.5	83.5	9.0
SR 24/Smith Road to SR 241	Install centerline rumble strips	Before	3	15.7	8.7	7.0	2.3
		After	2	14.0	8.0	6.0	2.0
SR 206/SR 206 and Bruce Road intersection roundabout	Replace existing two way stop with a roundabout	Before	3	3.3	1.7	1.7	0.3
		After	2	0.5	0.5	0.0	0.0

Data Source: WSDOT, Washington Traffic Safety Commission

	Collisions Per Year			
	All types	Property damage only	All injury/ fatal	Serious injury/ fatal
Before period - collisions per year for all projects	2254.7	1359.0	895.7	73.7
After period - collisions per year for all projects	2331.0	1511.3	819.7	58.7
Percentage change +/-	3.4%	11.2%	-8.5%	-20.4%