

Highway Safety Annual Update

Highway Safety Projects - Before and After Study

Forty-Nine Projects Completed Between October 1, 2003 and September 30, 2005

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

Project Title and Location	Description of Work	Period	Collisions Per Year			
			All Types	Property Damage Only	All Injury/Fatal	Serious Injury/Fatal
I-5/Westbound SR 104 to Northbound I-5	Ramp Modification	Before	3.7	2.3	1.3	0.0
		After	3.3	2.7	0.7	0.0
I-5/Northgate Way to NE 175th Street	Interstate Safety	Before	17.3	12.7	4.7	0.0
		After	7.0	4.7	2.3	0.0
SR 99/NB Off Ramp to SB SR 599/S 116th	Signal and Channelization	Before	17.0	9.3	7.7	0.0
		After	9.7	6.0	3.7	0.3
SR 9/SR 528 Intersection - Signal	Signal and Channelization	Before	6.7	3.0	3.7	0.3
		After	11.3	5.0	6.3	0.0
SR 516/30th Avenue South Vicinity	Channelization	Before	23.7	17.7	6.0	0.0
		After	3.7	3.0	0.7	0.0
SR 203/NE 124th/Novelty Rd Vicinity	Roundabout	Before	11.3	5.7	5.7	1.0
		After	17.5	14.0	3.5	0.0
SR 515/SE 222nd Place to SE 217th Street	Signals	Before	22.0	10.7	11.3	1.0
		After	14.3	7.7	6.7	0.3
US 2/Old US 2 Vic to Jct SR 522 Vic	Safety Improvements and Rumble Strips	Before	82.7	47.0	35.7	2.0
		After	89.5	59.5	30.0	2.5
SR 532/Junction 102nd Avenue NW	Signal and Channelization	Before	5.3	4.7	0.7	0.0
		After	9.5	7.0	2.5	0.0
I-5/Ramps at Michigan-Corson/Albro/Swift	Shoulder Rebuild	Before	9.0	5.3	3.7	0.7
		After	7.0	5.5	1.5	0.0
SR 20/Sapp Rd to Reed St- Rechannelize	Channelization	Before	12.7	5.3	7.3	0.0
		After	2.5	2.0	0.5	0.5
I-5/SB Off Ramp to SR 526-Safety	Install Rumble Strips	Before	3.0	2.0	1.0	0.0
		After	4.5	4.0	0.5	0.0
US 2/Reiter Road Vicinity - Rechannelize	Channelization	Before	3.3	1.7	1.7	0.3
		After	1.0	0.0	1.0	0.0
SR 542/Coal Creek Vic. to Excelsior Trail	Guardrail Installation	Before	2.3	1.0	1.3	0.7
		After	1.5	0.5	1.0	0.5
SR 243/Wanapum Area - Left Turn Lanes	Channelization	Before	1.3	1.0	0.3	0.0
		After	0.0	0.0	0.0	0.0
SR 26/Adams Road - Left Turn Lanes	Channelization	Before	2.3	1.7	0.7	0.0
		After	0.5	0.0	0.5	0.0
SR 24/South Wahluke Slope - Guardrail	Install guardrail	Before	0.0	0.0	0.0	0.0
		After	0.3	0.0	0.3	0.0

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SR 28/Quincy East - Left Turn Lanes	Channelize Intersections	Before	2.7	1.3	1.3	0.3
		After	2.3	2.0	0.3	0.0
US 97A/Entiat Park Entrance - Turn Lanes	Add Left Turn Lane	Before	1.0	0.0	1.0	0.0
		After	0.3	0.3	0.0	0.0
I-90/Moses Lake West-Safety Improvements	Interstate Safety	Before	17.0	8.3	8.7	0.3
		After	22.0	14.0	8.0	2.5
US 2/Winton Rd Intersection Relocation	Intersection Improvements	Before	0.0	0.0	0.0	0.0
		After	0.5	0.5	0.0	0.0
I-5/County Line to Prairie Creek Bridge	Guardrail Upgrade	Before	32.0	17.0	15.0	1.7
		After	39.0	27.0	12.0	1.3
SR 16/Burley-Olalla Intersection - Safety	Channelization	Before	17.0	8.0	9.0	0.7
		After	4.7	3.7	1.0	0.0
US 101/W Sequim Bay Rd to Vic Dawley Rd	HAC Safety Improvements	Before	6.3	4.3	2.0	0.3
		After	8.0	3.7	4.3	1.0
SR 161/MP 3.87 to Ski Park Rd	Safety Improvement	Before	2.7	0.7	2.0	0.7
		After	0.7	0.3	0.3	0.0
SR 162/Voights Creek Vicinity - Safety	Roadway Alignment	Before	4.0	1.3	2.7	0.0
		After	3.0	1.7	1.3	0.0
SR 410/Jefferson Ave - Safety	Channelize Intersection	Before	0.7	0.7	0.0	0.0
		After	0.0	0.0	0.0	0.0
SR 507/Roy Wye Rechannelization	Signalization and Channelization	Before	5.0	2.3	2.7	0.0
		After	2.7	1.3	1.3	0.0
I-5/Pacific Ave I/C SB Off Ramp - Signal	Signalization	Before	10.7	7.3	3.3	0.0
		After	3.0	2.0	1.0	0.0
I-5/Bridgeport Way On-Ramps - Safety	Safety	Before	18.3	9.7	8.7	0.3
		After	5.0	4.0	1.0	0.0
I-205/Padden North Bound Off Ramp-Signal	Install Signal at Ramp	Before	6.7	3.3	3.3	0.3
		After	6.7	4.0	2.7	0.3
US 101/SR 401 Intersection Signal	Install Signal	Before	5.7	3.0	2.7	0.3
		After	2.5	1.5	1.0	0.0
SR 500/E Bound Off Ramp to Andresen Rd	HAL Safety Improvements	Before	10.0	3.3	6.7	0.0
		After	3.5	2.5	1.0	0.0
SR 14/Hood River Bridge - Signal	Install Signal	Before	3.7	1.7	2.0	0.7
		After	0.0	0.0	0.0	0.0
Southwest Region Guardrail Retrofit	Guardrail Replacement	Before	13.7	8.0	5.7	1.3
		After	12.5	8.5	4.0	1.0
SR 500/NE 112th Ave - Build Interchange	Construct Interchange	Before	68.7	39.0	29.7	0.0
		After	48.0	29.5	18.5	1.0

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SR 14/32nd St - Intersection Improvement	Install Raised Traffic Island, Construct Merge Lane	Before	8.0	3.3	4.7	0.7
		After	3.5	1.5	2.0	0.0
SR 124/East Jct US 12 - Reconstruction	Curve Realignment	Before	3.0	1.3	1.7	0.3
		After	0.7	0.7	0.0	0.0
US 395/Kennewick	Install VMS System	Before	75.3	43.7	31.7	1.3
		After	74.7	46.3	28.3	1.0
SR 24/SR 240 Richland to Vernital	Guardrail Improvements	Before	0.7	0.0	0.7	0.0
		After	4.0	2.0	2.0	0.5
US 97/Ellensburg to Smithson Road	Guardrail Improvements	Before	2.3	2.3	0.0	0.0
		After	8.5	6.0	2.5	0.0
US 395/Nordhein Road Vicinity	Guardrail Improvements	Before	0.0	0.0	0.0	0.0
		After	0.5	0.5	0.0	0.0
SR 904/HES Safety Improvements	Channelization & Illumination	Before	18.0	12.7	5.3	1.3
		After	25.0	13.0	12.0	1.0
I-90/US 195 to Pines	Spokane Area ITS Expansion	Before	392.7	241.0	151.7	4.3
		After	420.3	268.0	152.3	7.0
I-90/Sullivan Rd to Idaho State Line	Install Cable Median Barrier	Before	68.0	40.3	27.7	2.7
		After	84.3	55.0	29.3	2.0
I-90/Geiger Rd to US 2 - Median Barrier	Install Median Barrier	Before	23.7	15.0	8.7	1.3
		After	24.0	18.0	6.0	0.0
SR 290/Fancher Rd to Sullivan Road	Provide Center Turn Lane	Before	124.5	62.5	62.0	4.5
		After	90.0	51.0	39.0	1.0
SR 25/North of Davenport	Upgrade Guardrail	Before	17.3	9.7	7.7	0.7
		After	28.5	16.0	12.5	2.5
SR 290/Helena Street - Add Turn Lane	Provide Left Turn Channelization	Before	8.0	5.0	3.0	0.3
		After	6.0	4.5	1.5	0.0

Totals for All 49 Projects

	Collisions Per Year			
	All Types	Property Damage Only	All Injury/Fatal	Serious Injury/Fatal
Before Period - Collisions Per Year For All Projects	1190.8	687.2	503.7	30.5
After Period - Collisions Per Year For All Projects	1117.5	710.5	407.0	26.3
Percentage Change +/-	-6.2%	3.4%	-19.2%	-13.7%

Source: WSDOT Transportation Data Office