



Oregon Department of Transportation

Region

4

2010 - Top 10% Sites Investigative Report - By Hwy, MP

* Bold italic font indicates top five percent (5% SPIS cutoff value = 53.30)

Region	Dist.	Rte.	Hwy	Rdwy	Rd Name	BMP	EMP	ADT	Max Crashes	Max Fatalities	Max SPIS*	Date Review Completed	Problem Description	Potential Remedies	Estimated Costs	Impediments to Implementation
4	10	US-97	004	1	THE DALLES-CALIFORNIA @ Cooley Rd (MP 134.11)	134.02	134.20	25,500	22	0	54.78	8/19/2010	20/23 Rear-end, 13/20 NB (Inj A)	Install additional signal head for NB Installed signal ahead sign w/ flashers for SB.	\$2K \$2K	Not currently funded, approval for funding request installed 4/1/2010
													Project Key #16559 Redmond Adaptive Traffic Signal System will include this signal into the system. Communication infrastructure complete and included in the Bend Central Signal Program	\$1.1M	Adaptive Signal System is fully operable Summer 2010	
													Signing was upgraded under Project Key #15401 US 97 Bowery Lane to Romaine Village	\$9M	Construction complete Fall 2009	
													Project Key #14020 US 97 Bend North Corridor will look into solutions for US 97 in the Cooley Road segment.	\$10.5M	Scheduled for construction in 2011, finding solution that will increase capacity, safety and be accepted by local businesses and residences.	
													US 97/20 Refinement Plan	\$85M - 180M	Implementation of US 97/20 Refinement Plan, high cost and R/W impacts of solution. Impacts of Juniper Ridge Development and Super Wal-Mart. Plan is looking at phased solution.	
4	10	US-97	004	1	THE DALLES-CALIFORNIA @ Robal Rd (MP 134.60)	134.47	134.65	32,000	19	0	54.81	8/9/2010	19/22 @ Robal Rd (2 Inj A); 13/19 Rear-end (9/13 NB); 3/19 Lane departure, 2/3 cross median (Inj A)	Project Key #16559 Redmond Adaptive Traffic Signal System will include this signal into the system. Communication infrastructure complete and included in the Bend Central Signal Program	\$1.1M	Adaptive Signal System is fully operable Summer 2010
													Installed advance signal ahead sign for NB	\$2K	Installed 7/22/2010	
													Signing & striping was upgraded under Project Key #15401 US 97 Bowery Lane to Romaine Village	\$9M	Construction complete Fall 2010	
													2/22 @ Target entrance Rt turn (Inj A)	\$10.5M	Scheduled for construction in 2011, finding solution that will increase capacity, safety and be accepted by local businesses and residences.	

Region	Dist.	Rte.	Hwy	Rdwy	Rd Name	BMP	EMP	ADT	Max Crashes	Max Fatalities	Max SPIS*	Date Review Completed	Problem Description	Potential Remedies	Estimated Costs	Impediments to Implementation
4	10	US-97	004	1	THE DALLES-CALIFORNIA @ Powers Rd (MP 139.97)	139.88	140.06	22,300	18	1	55.81	8/20/2010	24/32 @ Powers Rd; 11/24 Rear-end, 4/11 NB; 10/24 crossing disregard signal (Fatal, drugs & alc); 8/32 @ off ramps (1 Bike)	Police enforcement pads installed and signing upgraded under Project Key #15401 US 97 Bowery Lane to Romaine Village Add advance signal heads and advance signal ahead signs with flashers for both directions to current project	\$9M	Construction complete Fall 2009 Change Order Approval
														Will be included in the Bend Central Signal Program Key #15175 as funds become available	\$20K	Communication infrastructure to signals
														Developer added an EB through lane on Powers Rd as mitigation	\$450K	Complete Spring 2009
														Increase Police Enforcement to increase signal compliance	\$20K	Effectiveness is short lived.
														Add more all-red to signal timing	\$1K	May effect drivers expectations
														Red Light running camera	\$100	Public support, no funding, may increase rear-end crashes
														Install Police Red Light Runner indicator lights	\$50K	Not funded
4	10	US-20	007	1	CENTRAL OREGON @ 3rd St. (MP 0.51), 4th St. (MP 0.60), 5th St. (MP 0.68), 6th St. (MP 0.77), 7th St. (MP 0.86), 8th St. (MP 0.94), 9th St. (MP 1.00)	0.51	1.00	20,100	22	0	72.16	8/23/2010	8/60 into private driveways, 5/8 Lft turn, 3/8 Rt turn (2/3 Bike, Inj A)	Access Management / Street Enhancement	unknown	Funding, Public Support
					@ 3rd St. Signal (MP 0.51)								15/60 @ 3rd St; 10/15 Rear-end (8/10 WB); 2 Bike Rt turn (Inj A); 2 Ped (Inj A)	US 20 Signal Upgrade Project Key #13853 will add video detection and a 2070 controller. Future upgrades being scoped for 14-15 STIP	\$1.235M	Construction scheduled for Fall 2010
					@ 4th St. (MP 0.60)								4/60 @ 4th St; 2/4 N-E illegal Lft turn into WB; 2/4 illegal crossing SB into EB	Police enforcement for illegal left turns and crossing maneuvers at 4th St	\$1K	Effectiveness is short lived.
					@ 5th St. (MP 0.68)								4/60 @ 5th St; 2/4 crossing	Access Management / Street Enhancement	unknown	Funding, Public Support
					@ 6th St. (MP 0.77)								6/60 @ 6th St; 1 Ped crossing (alc involved, dimlight); 3/6 Rear-end	Access Management / Street Enhancement	unknown	Funding, Public Support
					@ 7th St. (MP 0.86)								3/60 @ 7th St; 2/3 Lft turn	Access Management / Street Enhancement	unknown	Funding, Public Support
					@ 8th St. Signal (MP 0.94)								11/60 @ 8th St; 5/11 Rear-end (2 WB); 1 Bike	Will be included in the Bend Central Signal Program Key #15175 as funds become available - Future upgrades being scoped for 14-15 STIP	\$450K	Communication infrastructure to signals
														Replaced existing 170 controller with new 2070 controller in 2009	\$4K	Installed 9/09
					@ 9th St. (MP 1.00)								7/60 @ 9th St; 3/7 S-W Lft turn into EB; 3/7 crossing (2 NB into WB)	Access Management / Street Enhancement	unknown	Funding, Public Support

Region	Dist.	Rte.	Hwy	Rdwy	Rd Name	BMP	EMP	ADT	Max Crashes	Max Fatalities	Max SPIS*	Date Review Completed	Problem Description	Potential Remedies	Estimated Costs	Impediments to Implementation
4	10	US-20	007	1	CENTRAL OREGON @ NE Purcell Blvd (MP 2.29)	2.20	2.38	17,700	19	0	57.81	8/19/2010	18/19 @ Purcell Blvd; 7/18 Rear-end, 5/7 EB, 1/5 NB (Inj A); 4/18 crossing disregard signal (1/4 alc involved); 5/19 Dark	US 20 Purcell - Arnold Ice Cave project key #14932 will improve detection with cameras and new signing, project will also add red colored bike lanes - Install advance signal head for EB	\$2M	Construction complete Fall 2010 Approval of Change Order
													1/19 Bike Rt turn	Dedicated SW Rt turn lane and 2070 controller in 2008	\$10K \$75K	Construction complete
														Will be included in the Bend Central Signal Program Key #15175 after completion of Project #14932	\$450K	Pending completion of US 20 Purcell - Arnold Ice Cave project scheduled for completion Fall 2010.
4	10	US-20	017	1	MCKENZIE-BEND @ Empire Blvd (MP 18.80)	18.71	18.89	20,300	13	0	46.36	8/19/2010	8/14 Rear-end (6/8 SB, Inj A); 2/14 Lft turn (1 E-S)	Signal will be modified under Quick Fix Fund Project. Will add Protective / Permissive Left turn phase and a 2070 controller and communication equipment to be included in the Bend Central Signal Program Key #15175	\$18K	Complete August 2010
														Bend Central Signal Program Key #15175	\$450K	Pending completion of US 20 Signal Upgrade project scheduled for construction in 2010.
4	10	US-20	017	1	MCKENZIE-BEND @ NE Olney Ave (MP 20.65) to NE Norton Ave (MP 20.73)	20.64	20.74	23,500	21	0	42.57	8/19/2010	12/21 Rear-end	STIP Project Key #13853 US 20 Signal Upgrades will rebuild Revere signal including video detection, a 2070 controller and signal interconnect.	\$1.235M	Construction scheduled for 2010
														Bend Central Area Plan - Recommends a couplet for 2nd and 3rd St.	unknown	Construction cost, how will the end transitions work?
					@ NE Olney Ave. Signal (MP 20.65)								16/21 @ Olney; 7/16 rear-end (6/6 NB); 1 Bike Lft turn	Five section heads (doghouse) replaced with flashing yellow arrows in 2009	\$7K	Flashing Yellow Left Turn Arrow installed 1/29/2009
														Will be included in the Bend Central Signal Program Key #15175 after completion of Project #13853	\$450K	Pending completion of US 20 Signal Upgrade project scheduled for construction in 2010.
					@ NE Norton Ave. (MP 20.73)								5/21 @ Norton; 3/5 rear-end	Access Management	unknown	Public support
<p>RED = increases Value</p> <p>BLUE = lower value</p> <p>GREEN = New site</p> <p>BLACK = remained the same</p>																