

Alaska Highway Safety Improvement Program 2013 Annual Report

Prepared by: AK

Disclaimer

Protection of Data from Discovery & Admission into Evidence

23 U.S.C. 148(h)(4) states "Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for any purpose relating to this section [HSIP], shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location identified or addressed in the reports, surveys, schedules, lists, or other data."

23 U.S.C. 409 states "Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential accident sites, hazardous roadway conditions, or railway-highway crossings, pursuant to sections 130, 144, and 148 of this title or for the purpose of developing any highway safety construction improvement project which may be implemented utilizing Federal-aid highway funds shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data."

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Executive Summary

Under the Alaska Highway Safety Improvement Program (HSIP), the Alaska DOT&PF identifies high risk intersections and roads, scopes and prioritizes corrective projects, funds the most cost-effective ones, and evaluates actual project and program effectiveness. HSIP dollars are distributed to the most effective projects from a single statewide fund. The goal of the Alaska HSIP is to "maximize lives saved and major injuries eliminated per dollar spent."

Regional Traffic and Safety personnel identify, scope, estimate, and rank candidate projects according to benefit-cost ratio (ranked projects) and potential for crash reduction (non-ranked projects). HQ Traffic & Safety reviews proposed new projects, works with the regions to clarify project description and scope, and submits recommended projects to the Federal Highway Administration for approval. Following FHWA approval of new HSIP projects, HQ Traffic and Safety selects the most effective projects and proposes a statewide HSIP funding plan for the coming federal fiscal year for approval by the Chief Engineer and the Director of Program Development.

The HSIP funding plan typically includes a blend of on-going projects and new projects. Regions design and construct funded projects and generate before-after studies when three years of post improvement crash data becomes available. HQ Traffic & Safety manages funding for the statewide HSIP, annually updates the HSIP Handbook, maintains program effectiveness data, and produces the annual HSIP report.

Introduction

The Highway Safety Improvement Program (HSIP) is a core Federal-aid program with the purpose of achieving a significant reduction in fatalities and serious injuries on all public roads. As per 23 U.S.C. 148(h) and 23 CFR 924.15, States are required to report annually on the progress being made to advance HSIP implementation and evaluation efforts. The format of this report is consistent with the HSIP MAP-21 Reporting Guidance dated February 13, 2013 and consists of four sections: program structure, progress in implementing HSIP projects, progress in achieving safety performance targets, and assessment of the effectiveness of the improvements.

Program Structure

Program Administration How are Highway Safety Improvement Program funds allocated in a State?
⊠ Central Central
District
Other
Describe how local roads are addressed as part of Highway Safety Improvement Program.
Safety projects on all public roads in Alaska are eligible to compete for HSIP funding. The same process is used to prioritize projects on both state and non-state (including local) roads.
Identify which internal partners are involved with Highway Safety Improvement Program planning.
⊠Design
Planning

Other: Other-City of Fairbanks

Other: Other-FHWA		
Identify any program administration the last reporting period.	tion practices used to implement the	e HSIP that have changed since
Multi-disciplinary HSIP steering	g committee	
◯Other: Other-None		
Describe any other aspects of Higwould like to elaborate.	shway Safety Improvement Program	Administration on which you
No response.		
Program Methodology		
Select the programs that are adm	ninistered under the HSIP.	
Median Barrier	Intersection	Safe Corridor
Horizontal Curve	Bicycle Safety	Rural State Highways
Skid Hazard	Crash Data	Red Light Running Prevention
Roadway Departure	Low-Cost Spot Improvements	Sign Replacement And Improvement
Local Safety	Pedestrian Safety	Right Angle Crash
Left Turn Crash	Shoulder Improvement	Segments
Other: Other-Entire HSIP		

Program:	Other-Entire HSIP	
Date of Program Methodology:	5/10/2012	
What data types were used in the	e program methodology?	
Crashes	Exposure	Roadway
	Traffic	Median width
Fatal crashes only	⊠Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features
	Other	Other
What project identification meth	odology was used for this program?	
Crash frequency		
Expected crash frequency with	EB adjustment	
Equivalent property damage of	nly (EPDO Crash frequency)	
EPDO crash frequency with EB	adjustment	
Relative severity index		
⊠Critical rate		

Level of service of safety (LOSS)
Excess expected crash frequency using SPFs
Excess expected crash frequency with the EB adjustment
Excess expected crash frequency using method of moments
Probability of specific crash types
Excess proportions of specific crash types
Other
Are local roads (non-state owned and operated) included or addressed in this program?
⊠Yes
□No
If yes, are local road projects identified using the same methodology as state roads?
⊠Yes
□No
How are highway safety improvement projects advanced for implementation?
Competitive application process
selection committee
Other
Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).
Relative Weight in Scoring
Rank of Priority Consideration

Install/Improve Lighting

Other

What process is used to identify potential countermeasures?

Add/Upgrade/Modify/Remove Traffic Signal

Safety Edge

□ Engineering Study
Road Safety Assessment
Other:
Identify any program methodology practices used to implement the HSIP that have changed since the last reporting period.
Highway Safety Manual
Road Safety audits
Systemic Approach
Other:

Describe any other aspects of the Highway Safety Improvement Program methodology on which you would like to elaborate.

- -Data Used: All crashes are used for intersection screening, with an emphasis on fatalities and major injuries. Segment screening is based on fatalities and major injuries.
- -Project Identification: Project identification results from intersection and segment crash screening, initial project scope, cost estimate, and estimated crash reduction.
- -Countermeasures implemented this year: rumble strips, warning signs and delineators, urban intersection & pedestrian improvements, passing lanes, and bridge barrier upgrades. We have also used HSIP funding to implement safety countermeasures on Highway Safety Corridors.
- -Spot vs. System wide improvements: About 47% of current year project funding addressed system wide improvements. Prior year system improvements include flashing yellow arrow, animal-vehicle collision prevention, slow-vehicle turnouts, and continuous illumination projects.

- -HSIP/SHSP Alignment: All HSIP projects align with SHSP emphasis areas. See following discussion under General Listing of Projects.
- -Project Prioritization Process: Project prioritization is based on cost of crashes eliminated. Using crash cost results in a greater emphasis on severe crashes. For "ranked" projects, prioritization is based on benefit-cost ratio (estimated cost of crashes eliminated / cost of construction and maintenance). For "non-ranked" projects, prioritization is based on a subjective estimate of potential for reducing severe crashes.

Progress in	Implem	enting I	Projects
--------------------	---------------	----------	----------

Funds Programmed Reporting period for Highway Safety Improvement Program funding. Calendar Year State Fiscal Year Federal Fiscal Year

Enter the programmed and obligated funding for each applicable funding category.

Funding Category	Programmed*		Obligated				
HSIP (Section 148)	37681616	61 %	39581264.23	61 %			
HRRRP (SAFETEA-LU)							
HRRR Special Rule							
Penalty Transfer - Section 154	10311864	17 %	10410884.38	16 %			
Penalty Transfer – Section 164	10311864	17 %	10552909	16 %			
Incentive Grants -							

Section 163				
Incentive Grants (Section 406)				
Other Federal-aid Funds (i.e. STP, NHPP)				
State and Local Funds	3275228	5 %	3873150.83	6 %
Totals	61580572	100%	64418208.44	100%

How much funding is programmed to local (non-state owned and maintained) safety projects?

\$8,667,536.00

How much funding is obligated to local safety projects?

\$3,567,028.00

How much funding is programmed to non-infrastructure safety projects?

\$1,985,500.00

How much funding is obligated to non-infrastructure safety projects?

\$2,005,500.00

How much funding was transferred in to the HSIP from other core program areas during the reporting period?

\$0.00

How much funding was transferred out of the HSIP to other core program areas during the reporting period?

\$0.00

Discuss impediments to obligating Highway Safety Improvement Program funds and plans to overcome this in the future.

HSIP projects are often smaller projects that must compete with other state priorities for the same resources (personnel, equipment, etc.) as the larger projects in the state. Strategies for overcoming these impediments include bundling projects in the construction phase with larger projects, and consider program revisions to allow leveraging HSIP funds by combining with other eligible federal funding.

Describe any other aspects of the general Highway Safety Improvement Program implementation progress on which you would like to elaborate.

No response.

General Listing of Projects

List each highway safety improvement project obligated during the reporting period.

Project	Improvement Category	Outpu	HSIP Cost	Total Cost	Fundi ng Categ	Function al Classifica	AAD T	Spe ed	Roadw ay Owners	Relationship to SHSP		
					ory	tion			hip	Empha sis Area	Strategy	
College Road/ Antoinette Ave/ Margaret Ave Intersection Reconstructio n	Intersection geometry Intersection geometrics - realignment to align offset cross streets	1 Numb ers	100000	100000	Penalt y Transf er - Sectio n 154	Urban Minor Arterial	141 20	0	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti on crashes	
Fairbanks Flashing Yellow Arrow Signal Upgrade	Intersection traffic control Modify traffic signal - add flashing yellow arrow	35 Numb ers	45000	50000	HSIP (Secti on 148)	Mixed FCs	0	0	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti on	

											crashes
Fairbanks: Spot Intersection Improvement s	Intersection traffic control Intersection signing - add enhanced regulatory sign (double- up and/or oversize)	5 Numb ers	27000	30000	HSIP (Secti on 148)	All FCs - systemic install	0	0	State Highwa Y Agency	Roadw	Implemen t infrastruc ture projects to address intersecti on crashes
Johansen Expressway Curve Delineation	Roadway delineation Delineators post- mounted or on barrier	1.69 Miles	18103.5	20115	HSIP (Secti on 148)	Urban Principal Arterial - Other	0	0	State Highwa Y Agency	Roadw	Implemen t infrastruc ture projects to address run-off- road crashes
Parks Highway MP 215-219 Enhanced Curve Delineation	Roadway delineation Delineators post- mounted or on barrier	3 Miles	61000	61000	HSIP (Secti on 148)	Rural Principal Arterial - Other	124 5	65	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to

Steese Highway MP 18-20 Enhanced Curve Delineation	Roadway delineation Delineators post- mounted or on barrier	3 Miles	51000	51000	HSIP (Secti on 148)	Rural Minor Arterial	350	55	State Highwa Y Agency	Roadw	address run-off- road crashes Implemen t infrastruc ture projects to address run-off- road crashes
Parks Highway Centerline Rumble Strips, Nenana to Sheep Creek Road	Roadway Rumble strips - center	48 Miles	709251	709251	Penalt y Transf er - Sectio n 154	Rural Principal Arterial - Other	836 5	0	State Highwa Y Agency	Roadw	Implemen t infrastruc ture projects to address head-on crashes
Richardson Highways MP 291-295 Enhanced	Roadway delineation Delineators post- mounted or on barrier	4 Miles	61000	61000	HSIP (Secti on 148)	Rural Principal Arterial - Other	118	65	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture

Curve Delineation											projects to address run-off- road crashes
Steese Expressway/C hena Hot Springs Road Ramp Termini Roundabouts	Intersection traffic control Modify control - two-way stop to roundabout	2 Numb ers	405900	451000	HSIP (Secti on 148)	Urban Principal Arterial - Other	815 5	0	State Highwa y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti on crashes
Northern Region Pedestrian Intervals and Signal Phases Updates	Intersection traffic control Modify traffic signal timing - general retiming	60 Numb ers	50000	50000	HSIP (Secti on 148)	All FCs - systemic install	0	0	State Highwa y Agency	Special Users	Identify and implemen t appropria te engineeri ng strategies to address high-

City of	Intersection traffic	22	50000	50000	HSIP	All FCs -	0	0	State	Special	crash locations involving pedestria ns
City of Fairbanks Pedestrian Intervals and Signal Phases Updates	control Modify traffic signal timing - general retiming	Numb ers	50000	50000	(Secti on 148)	systemic install	U	U	State Highwa Y Agency	Special Users	Identify and implemen t appropria te engineeri ng strategies to address high- crash locations involving pedestria ns
Northern Region Avalanche Gates	Roadway signs and traffic control Roadway signs and traffic control - other	5 Numb ers	70000	70000	HSIP (Secti on 148)	Rural Principal Arterial and Rural Major	0	0	State Highwa Y Agency	Roadw ays	See "Supporti ng Text" for relavant

						Collector					strategy
Northern Region Pedestrian Improvement s	Pedestrians and bicyclists Crosswalk	59 Numb ers	100000	100000	HSIP (Secti on 148)	All FCs - systemic install	0	0	Other Local Agency	Special Users	Identify and implemen t appropria te engineeri ng strategies to address high- crash locations involving pedestria ns
Richardson Highway Speed Disparity - HSIP	Speed management Modify speed limit	270 Miles	1232399. 5	1331555	HSIP (Secti on 148)	Rural Principal Arterial - Other	0	0	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address head-on crashes

Richardson Hwy MP276- 341 Centerline Rumble Strips - HSIP	Roadway Rumble strips - center	64 Miles	1088132	1088132	Penalt y Transf er - Sectio n 154	Rural Principal Arterial - Other	0	65	State Highwa y Agency	Roadw ays	Implemen t infrastruc ture projects to address head-on crashes
Signal Head Size Upgrades - HSIP	Intersection traffic control Modify traffic signal - replace existing indications (incandescent-to-LED and/or 8-to-12 inch dia.)	47 Numb ers	50000	50000	HSIP (Secti on 148)	All FCs - systemic install	0	0	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti on crashes
Parks Highway Passing Lanes - Northern Region HSIP	Roadway Roadway widening - add lane(s) along segment	5 Numb ers	28500995	28500995	HSIP (Secti on 148)	Rural Principal Arterial - Other	0	0	State Highwa y Agency	Roadw ays	Implemen t infrastruc ture projects to address head-on

											crashes
Bogard Road @ Peck Street 3 Lane and Traffic Signal	Intersection geometry Auxiliary lanes - add two-way left-turn lane	1 Numb ers	103022.1	114469	HSIP (Secti on 148)	Rural Major Collector	109 62	50		Roadw ays	Implemen t infrastruc ture projects to address intersecti on crashes
Bragaw Street @ 16th Avenue 5 Lane	Intersection geometry Auxiliary lanes - add two-way left-turn lane	0.5 Miles	372870	414300	HSIP (Secti on 148)	Urban Principal Arterial - Other	185 83	0	City of Municip al Highwa y Agency	Roadw	Implemen t infrastruc ture projects to address run-off- road crashes
Northern Lights Boulevard @ UAA Drive	Intersection geometry Auxiliary lanes - add left-turn lane	1 Numb ers	2698141	2698141	Penalt y Transf er - Sectio n 154	Urban Principal Arterial - Other	418 58	40	City of Municip al Highwa y Agency	Roadw ays	Implemen t infrastruc ture projects to

Seward Highway: Turnagain Pass to Potter Slow Vehicle Turnouts (SVT) &	Intersection geometry Auxiliary lanes - miscellaneous/other/un specified	7 Numb ers	20799.52	23110.58	HSIP (Secti on 148)	Rural Principal Arterial - Other	0	0	State Highwa Y Agency	Roadw ays	address intersecti on crashes Implemen t infrastruc ture projects to address
Passing Lanes							_	_			head-on crashes
Central Region Traffic Signal Modifications , 2011	Intersection traffic control Modify traffic signal - miscellaneous/other/un specified	A Numb ers	1356297. 36	1356297. 36	HSIP (Secti on 148)	All FCs - systemic install	0	0	State Highwa Y Agency	Roadw	Implemen t infrastruc ture projects to address intersecti on crashes
Sterling Highway: Soldotna to Homer Hill	Intersection geometry Auxiliary lanes - miscellaneous/other/un specified	56.5 Miles	10144249 .2	11271388	HSIP (Secti on 148)	Rural Principal Arterial - Other	0	0	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture

Slow Vehicle Turnouts (SVT)											projects to address head-on crashes
Minnesota Drive Moose- Vehicle Crash Mitigation	Animal-related	4.6 Miles	3675452. 4	4083836	HSIP (Secti on 148)	Urban Principal Arterial - Other	0	60	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address animal- vehicle collisions
Rabbit Creek Rd & Goldenview Dr OH Beacon	Intersection traffic control Intersection flashers - add overhead (continuous)	1 Numb ers	307857.0 7025	307857.0 7025	HSIP (Secti on 148)	Urban Minor Arterial	402	45	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti on crashes
Huffman & Elmore Rd OH	Intersection traffic control Intersection	1 Numb	302632.9	302632.9	HSIP (Secti	Urban Minor	460 0	45	State Highwa	Roadw ays	Implemen t

Beacon	flashers - add overhead (continuous)	ers			on 148)	Arterial			y Agency		infrastruc ture projects to address intersecti on crashes
Glenn Hwy & Muldoon Rd Interchange Improvement s	Intersection traffic control Modify traffic signal - miscellaneous/other/un specified	2 Numb ers	112500	125000	HSIP (Secti on 148)	Urban Principal Arterial - Other	0	0	State Highwa y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti on crashes
Johns Road and Klatt Road Intersection	Intersection traffic control Modify control - two-way stop to roundabout	1 Numb ers	246256	246256	HSIP (Secti on 148)	Urban Minor Arterial	101 53	40	City of Municip al Highwa y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti on

											crashes
Outer Springer Loop RR Xing Lighting via UTILITIES AGRMT	Lighting Intersection lighting	1 Numb ers	4991	4991	HSIP (Secti on 148)	Rural Minor Collector	143 70	35	State Highwa Y Agency	Roadw ays	See "Supporti ng Text" for relavant strategy
Sterling Highway & Main Street (Homer) Intersection Improvement s	Intersection traffic control Intersection traffic control - other	1 Numb ers	575000	575000	HSIP (Secti on 148)	Rural Principal Arterial - Other	114 05	35	City of Municip al Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti on crashes
Parks Hwy & Petersville Rd Intersection Improvement s	Intersection traffic control Intersection flashers - add overhead (continuous)	1 Numb ers	75000	75000	HSIP (Secti on 148)	Rural Principal Arterial - Other	175 3	55	City of Municip al Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti on crashes

Sterling Hwy & North Fork Rd (Anchor Pt) Intersection Improvement	Intersection traffic control Intersection flashers - add overhead (continuous)	1 Numb ers	75000 75000	75000 75000	HSIP (Secti on 148)	Rural Principal Arterial - Other	545 0	25	City of Municip al Highwa y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti on crashes Implemen
& Main Street (in Homer) Intersection Improvement s	Intersection geometry Intersection geometrics - modify intersection corner radius	Numb ers	75000	75000	(Secti on 148)	Minor Arterial	4	25	Municip al Highwa Y Agency	ays	implement tinfrastructure projects to address intersection crashes
O'Malley Road @ Elmore Road Intersection Improvement s	Intersection traffic control Intersection flashers - add overhead (continuous)	1 Numb ers	75000	75000	HSIP (Secti on 148)	Urban Minor Arterial	978 4	45	City of Municip al Highwa y Agency	Roadw ays	Implemen t infrastruc ture projects to address intersecti

Bogard Road @ Seldon Road Intersection Improvement s	Intersection traffic control Intersection flashers - add overhead (continuous)	1 Numb ers	75000	75000	HSIP (Secti on 148)	Urban Minor Arterial	120 99	50	City of Municip al Highwa y Agency	Roadw	on crashes Implemen t infrastruc ture projects to address intersecti on crashes
Glenn Highway Continuous Lighting Project, MP 27-31	Lighting Continuous roadway lighting	4 Miles	720000	720000	HSIP (Secti on 148)	Rural Principal Arterial - Other	272 10	65	State Highwa y Agency	Roadw ays	See "Supporti ng Text" for relavant strategy
Central Region Guardrail Delineation Enhancement s: Post Top Delineators	Roadway delineation Delineators post- mounted or on barrier	758 Miles	65000	65000	HSIP (Secti on 148)	All FCs - systemic install	0	0	Other Local Agency	Roadw ays	Implemen t infrastruc ture projects to address run-off- road

											crashes
C Street Advance Train Warning System	Railroad grade crossings Upgrade railroad crossing signal	1 Numb ers	105000	105000	Penalt y Transf er - Sectio n 154	Urban Principal Arterial - Other	188 93	50	State Highwa Y Agency	Roadw ays	See "Supporti ng Text" for relavant strategy
Kodiak Areawide Delineation Improvement s	Roadway delineation Delineators post- mounted or on barrier	90 Miles	578617.0 9	578617.0 9	HSIP (Secti on 148)	All FCs - systemic install	0	0	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address run-off- road crashes
HSIP: Jewel Lake Rd: 63rd Ave to Old Int'l Airport Rd	Access management Change in access - miscellaneous/unspecifi ed	1 Miles	686479	686479	HSIP (Secti on 148)	Urban Minor Arterial	124 37	40	State Highwa Y Agency	Roadw ays	See "Supporti ng Text" for relavant strategy
Glenn Hwy Speed Limit Evaluation: Palmer to	Speed management Modify speed limit	140 Miles	1281962	1281962	HSIP (Secti on	Rural Principal Arterial -	0	55		Roadw ays	Implemen t infrastruc ture

AK Peninsula Highway: King Salmon- Naknek	Roadway Pavement surface - miscellaneous	15 Miles	1863140. 79	1863140. 79	HSIP (Secti on 148)	Other Rural Major Collector	140	55	State Highwa Y Agency	Roadw ays	projects to address head-on crashes Implemen t infrastruc ture
Pavement Preservation					- 37						projects to address run-off- road crashes
Parks Hwy Safety Cooridor Median and Cont. Lighting	Access management Grassed median - extend existing	6 Miles	1849693	1849693		Rural Principal Arterial - Other	0	55	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address head-on crashes
JNU Thane Road Curve at Sheep	Roadway Roadway - other	2 Numb ers	2135152	2135152	HSIP (Secti on	Urban Minor Collector	611	40	State Highwa Y	Roadw ays	Implemen t infrastruc

Creek Safety Improvement					148)				Agency		ture projects to address run-off- road crashes
JNU Egan Drive Additional Illumination	Lighting Continuous roadway lighting	5 Miles	4524597. 16	4524597. 16	Penalt y Transf er - Sectio n 154	Urban Principal Arterial - Other	0	0	State Highwa y Agency	Roadw ays	See "Supporti ng Text" for relavant strategy
JNU Montana Creek Road Intersection Illumination	Lighting Intersection lighting	1 Numb ers	29600	29600	HSIP (Secti on 148)	Urban Minor Collector	798 7	45	State Highwa y Agency	Roadw	Implemen t infrastruc ture projects to address intersecti on crashes
POW Craig- Klawock Hwy Guardrail Improvement	Roadside Barrier - other	7 Miles	60831	67590	HSIP (Secti on 148)	Rural Major Collector	172 9	0	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture

											projects to address run-off- road crashes
SEA Areawide Avalanche Gates	Roadway signs and traffic control Roadway signs and traffic control - other	5 Numb ers	60000	60000	HSIP (Secti on 148)	VARIES	0	0	State Highwa Y Agency	Roadw ays	See "Supporti ng Text" for relavant strategy
KTN South Tongass Guardrail Replacement	Roadside Barrier - other	5 Miles	128870	128870	HSIP (Secti on 148)	Urban Minor Arterial	0	0	State Highwa Y Agency	Roadw ays	Implemen t infrastruc ture projects to address run-off- road crashes
NR: SMS/HSIP	Non-infrastructure Non-infrastructure - other	1 Numb ers	214234	235500	HSIP (Secti on 148)	N/A	0	0	N/A	Roadw ays	See "Supporti ng Text" for relavant

											strategy
CR: SMS/HSIP	Non-infrastructure Non-infrastructure - other	1 Numb ers	409365	450000	HSIP (Secti on 148)	N/A	0	0	N/A	Roadw ays	See "Supporti ng Text" for relavant strategy
SR: SMS/HSIP	Non-infrastructure Non-infrastructure - other	1 Numb ers	181940	200000	HSIP (Secti on 148)	N/A	0	0	N/A	Roadw ays	See "Supporti ng Text" for relavant strategy
HQ: APD Crash Form Interface	Non-infrastructure Data/traffic records	1 Numb ers	20000	20000	Penalt y Transf er – Sectio n 164	N/A	0	0	N/A	Roadw ays	See "Supporti ng Text" for relavant strategy
HQ: SMS/HSIP	Non-infrastructure Non-infrastructure - other	1 Numb ers	636790	700000	HSIP (Secti on 148)	N/A	0	0	N/A	Roadw ays	See "Supporti ng Text" for relavant strategy

SHSP	Non-infrastructure	1	363880	400000	HSIP	N/A	0	0	N/A	Roadw	See
	Non-infrastructure -	Numb			(Secti					ays	"Supporti
	other	ers			on						ng Text"
					148)						for
											relavant
											strategy

Identify and implement work zone and rail-highway crossing safety improvements, planning activities, improvements in data collection and analysis, road safety audits, and engineering strategies that correct or improve a hazardous road location or feature, or addresses a highway safety problem as allowed under 23 CFR 924 Highway Safety Improvement Program.

Progress in Achieving Safety Performance Targets

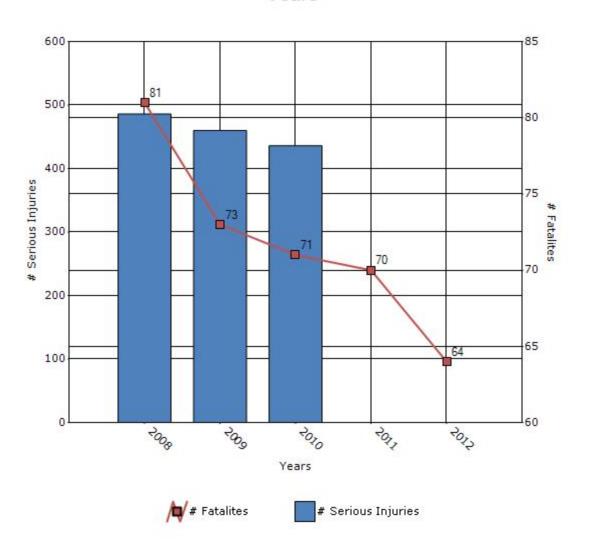
Overview of General Safety Trends

Present data showing the general highway safety trends in the state for the past five years.

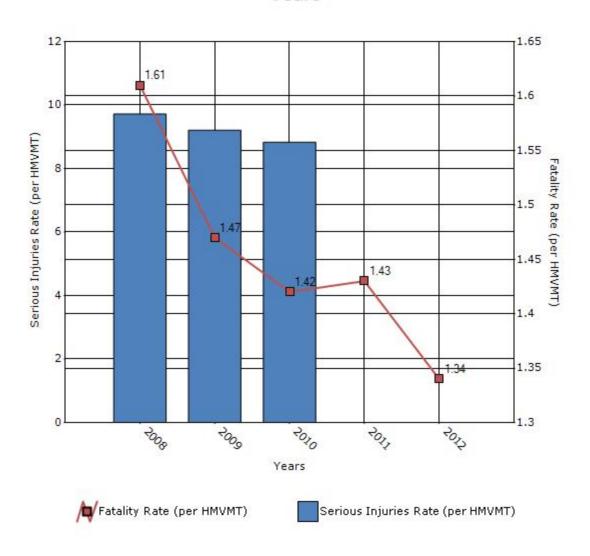
Performance Measures*	2008	2009	2010	2011	2012
Number of fatalities	81	73	71	70	64
Number of serious injuries	486	460	436	0	0
Fatality rate (per HMVMT)	1.61	1.47	1.42	1.43	1.34
Serious injury rate (per HMVMT)	9.72	9.21	8.83	0	0

^{*}Performance measure data is presented using a five-year rolling average.

Number of Fatalities and Serious injuries for the Last Five Years



Rate of Fatalities and Serious injuries for the Last Five Years



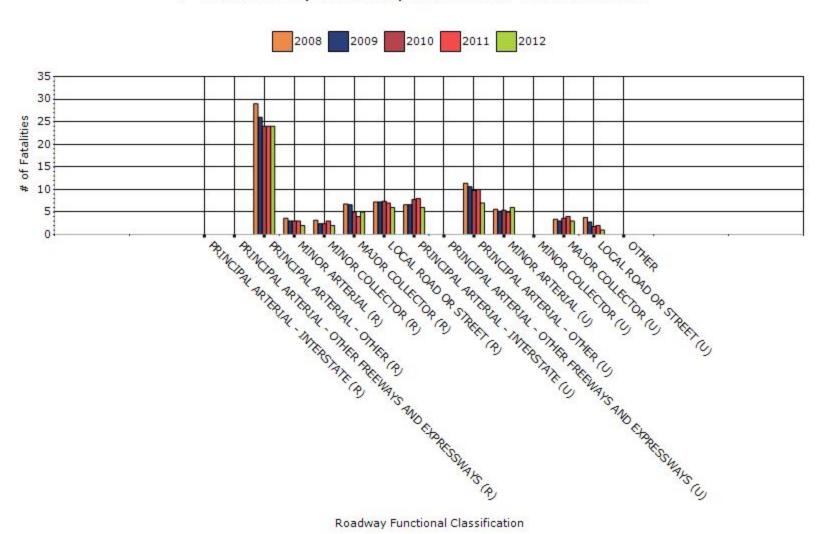
To the maximum extent possible, present performance measure* data by functional classification and ownership.

Year - 2012

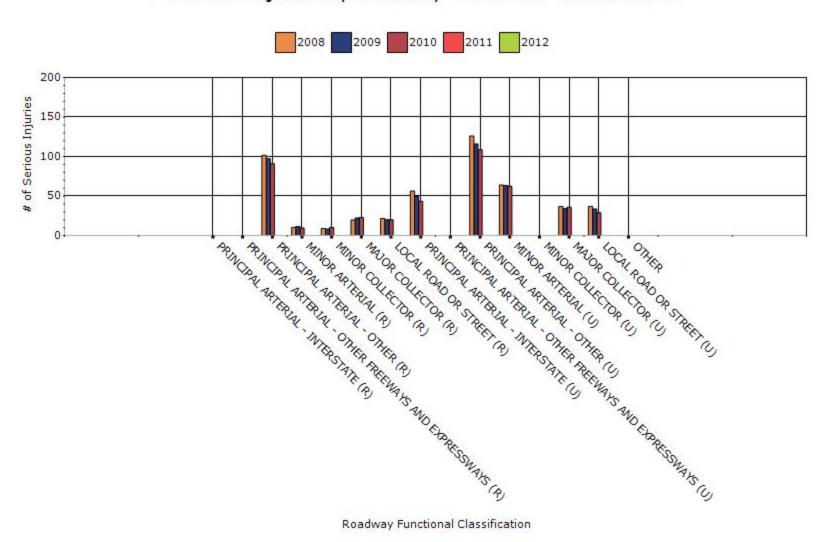
Function Classification	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)		
RURAL PRINCIPAL ARTERIAL - INTERSTATE	0	0	0	0		
RURAL PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS	0	0	0	0		
RURAL PRINCIPAL ARTERIAL - OTHER	24	0	2.05	0		
RURAL MINOR ARTERIAL	2	0	1.32	0		
RURAL MINOR COLLECTOR	2	0	1.45	0		
RURAL MAJOR COLLECTOR			1.48	0		
RURAL LOCAL ROAD OR STREET	6	0	1.52	0		
URBAN PRINCIPAL	6	0	0.95	0		

ARTERIAL - INTERSTATE						
URBAN PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS	0	0	0	0		
URBAN PRINCIPAL ARTERIAL - OTHER	7	0	1.3	0		
URBAN MINOR ARTERIAL	6	0	0.92	0		
URBAN MINOR COLLECTOR	0	0	0	0		
URBAN MAJOR COLLECTOR	3	0	1.1	0		
URBAN LOCAL ROAD OR STREET	1	0	0.5	0		
OTHER	0	0	0	0		
OTHER	0	0	0	0		

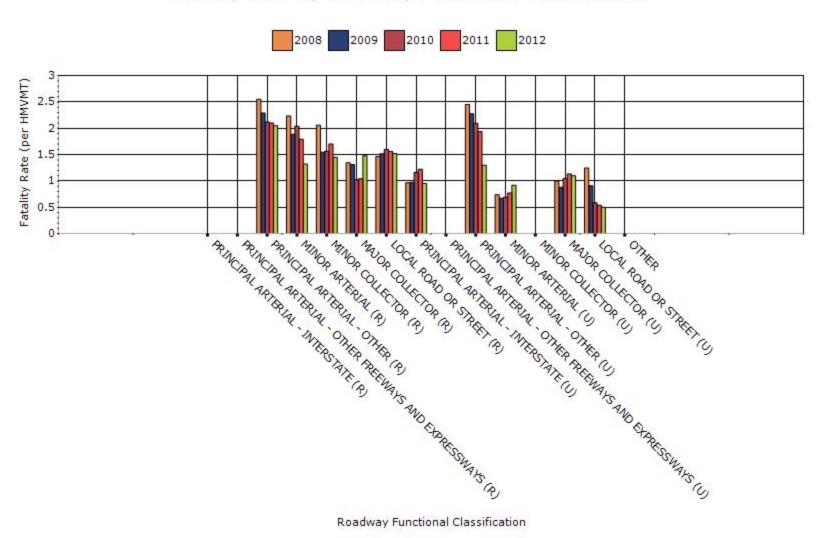
Fatalities by Roadway Functional Classification



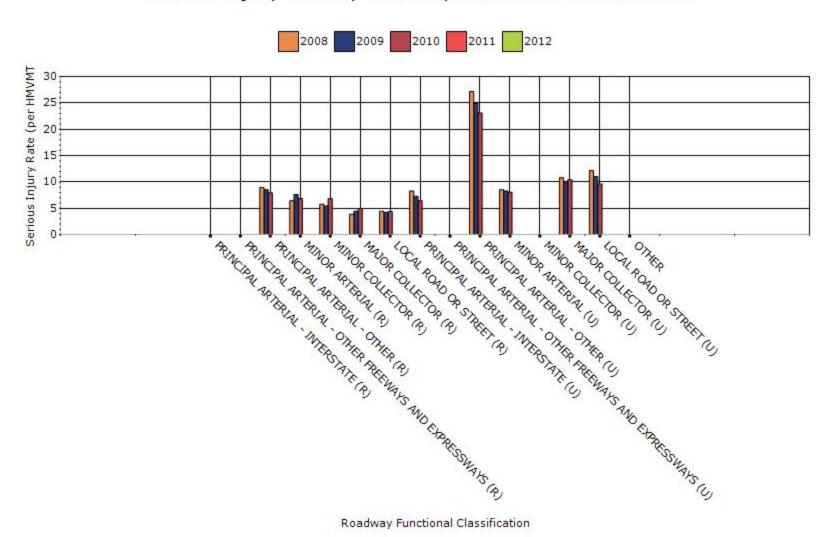
Serious Injuries by Roadway Functional Classification



Fatality Rate by Roadway Functional Classification



Serious Injury Rate by Roadway Functional Classification

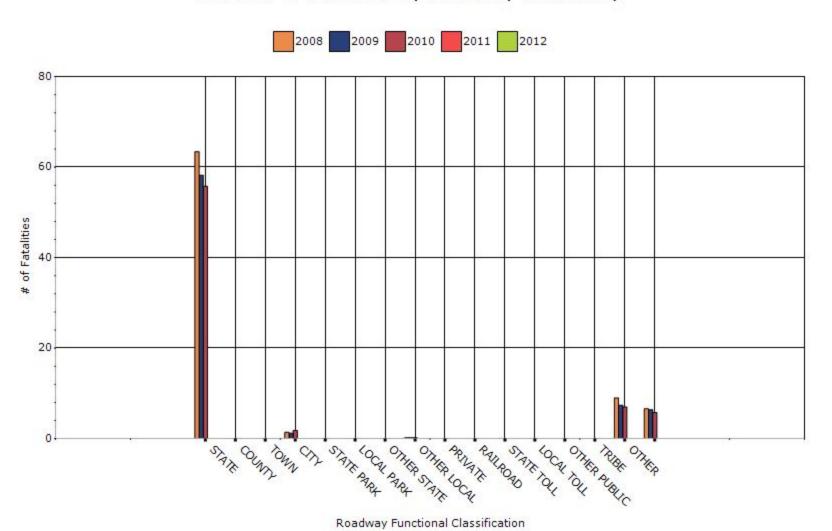


Year - 2012

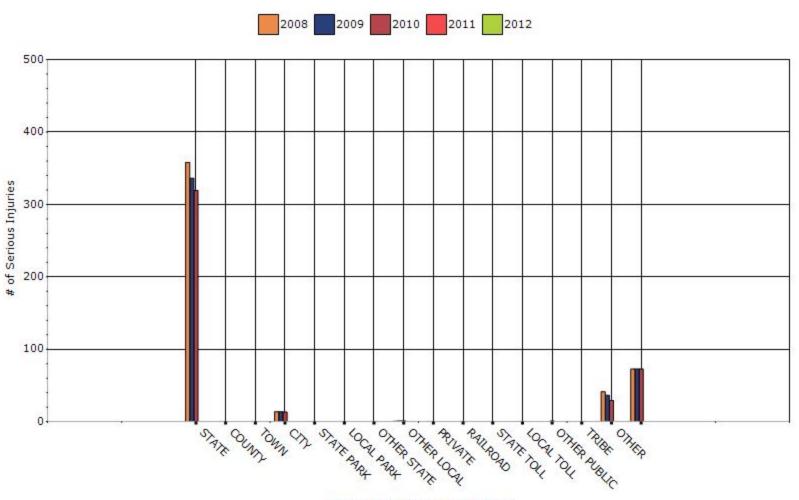
Roadway Ownership	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)
STATE HIGHWAY AGENCY	0	0	0	0
COUNTY HIGHWAY AGENCY	0	0	0	0
TOWN OR TOWNSHIP HIGHWAY AGENCY	0	0	0	0
CITY OF MUNICIPAL HIGHWAY AGENCY	0	0	0	0
STATE PARK, FOREST, OR RESERVATION AGENCY	0	0	0	0
LOCAL PARK, FOREST OR RESERVATION AGENCY	0	0	0	0
OTHER STATE AGENCY	0	0	0	0
OTHER LOCAL AGENCY	0	0	0	0
PRIVATE (OTHER THAN RAILROAD)	0	0	0	0

RAILROAD	0	0	0	0
STATE TOLL AUTHORITY	0	0	0	0
LOCAL TOLL AUTHORITY	0	0	0	0
OTHER PUBLIC INSTRUMENTALITY (E.G. AIRPORT, SCHOOL, UNIVERSITY)	0	0	0	0
INDIAN TRIBE NATION	0	0	0	0
OTHER	0	0	0	0
BOROUGH	0	0	0	0
BOROUGH	0	0	0	0

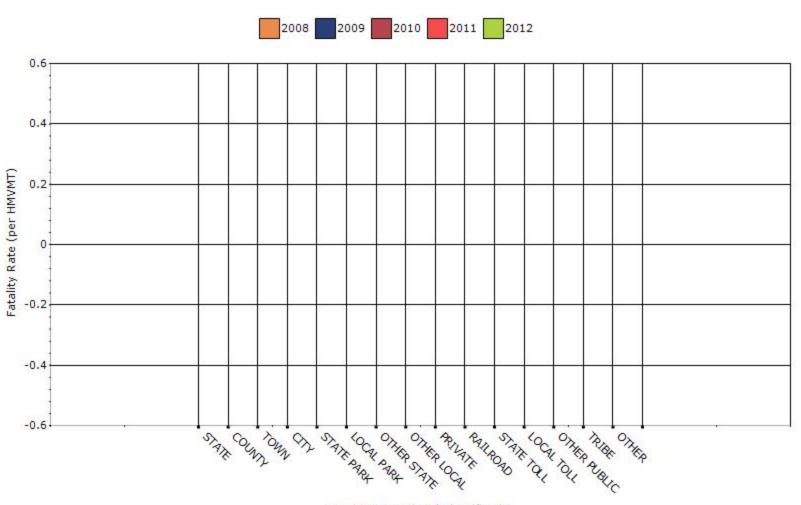
Number of Fatalities by Roadway Ownership



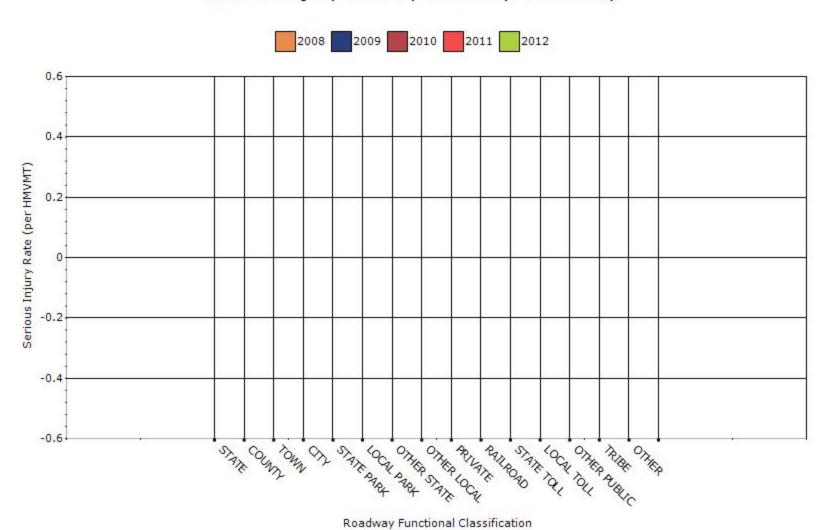
Number of Serious Injuries by Roadway Ownership



Fatality Rate by Roadway Ownership



Serious Injury Rate by Roadway Ownership



Functional Class: 2011 and 2012 serious injury data is not available. Five year averages for number of serious injuries and serious injury rate were not computed for those years.

Ownership: 2011 and 2012 serious injury data is not available. Five year averages for number of serious injuries and serious injury rate were not computed for those years. Fatality data for 2011 and 2012 have not been linked to ownership data at the time of this report. Five year averages for number of fatalities and fatality rate were not computed for those years. The ADOT does not have VMT by ownership so cannot compute the fatality and serious injury rates per HMVMT for any year. Most crashes do occur on state roads.

Describe any other aspects of the general highway safety trends on which you would like to elaborate.

No response.

Application of Special Rules

Present the rate of traffic fatalities and serious injuries per capita for drivers and pedestrians over the age of 65.

Older Driver	2008	2009	2010	2011	2012
Performance Measures					
Fatality rate (per capita)	0.1	0.08	0.08	0.07	0.07
Serious injury rate (per capita)	0.28	0.25	0.27	0.27	0
Fatality and serious injury rate (per capita)	0.37	0.32	0.35	0.35	0

^{*}Performance measure data is presented using a five-year rolling average.

Compute five year rolling average rates for Older Drivers and Pedestrians.

Tabulate Annual totals for a. Fatal Driver, b. Fatal Ped, c. SI Driver, d. Serious Injury Ped and e. Total of Fatal/SI drivers and Peds.

Population Figures were provided by state in the MAP-21 Older Driver Guidance web page.

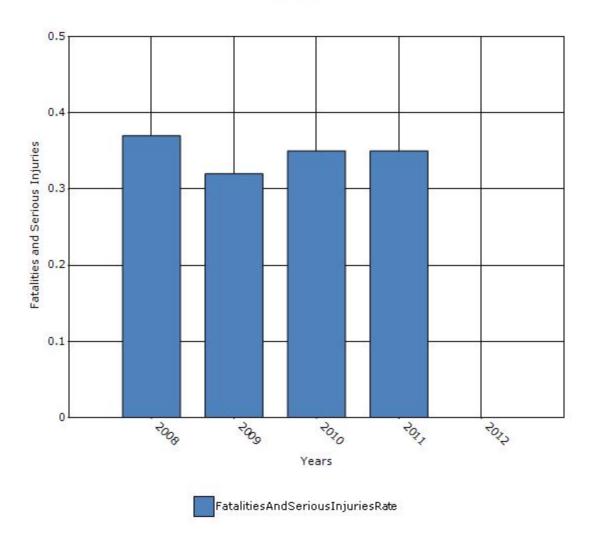
Compute annual rates for each grouping for years 2004 through 2012 using Population Figures for the applicable year (F+MI 2008/ PopFig 2008).

Sum five consecutive years and divide by 5 years to produce 5 year rolling average.

Example:

F+SI Rate 2011 =[(F+MI 2007/PopFig 2007)+(F+MI 2008/ PopFig 2008)+(F+MI 2009/ PopFig 2009)+(F+MI 2010/ PopFig 2010)+(F+MI 2011/ PopFig 2011)]/5

Rate of Fatalities and Serious injuries for the Last Five Years



Does the older driver special rule apply to your state?

Yes

If yes, describe the approach to include respective strategies to address the increase in those rates in the State SHSP.

Enhance older driver safe driving programs as described in the Alaska Strategic Highway Safety Plan - 2013 Revision. Identify and implement appropriate engineering strategies to address high-crash locations involving older drivers and pedestrians. Actions of this strategy emphasize engineering measures described in FHWA Highway Design Handbook for Older Drivers and Pedestrians from among

other applicable countermeasures.

Assessment of the Effectiveness of the Improvements (Program Evaluation)

Safety Improvement Program?
None
⊠Benefit/cost
Policy change
Other:

What significant programmatic changes have occurred since the last reporting period?
Shift Focus to Fatalities and Serious Injuries
Include Local Roads in Highway Safety Improvement Program
Organizational Changes
None
Other: Other-Systemic

Briefly describe significant program changes that have occurred since the last reporting period.

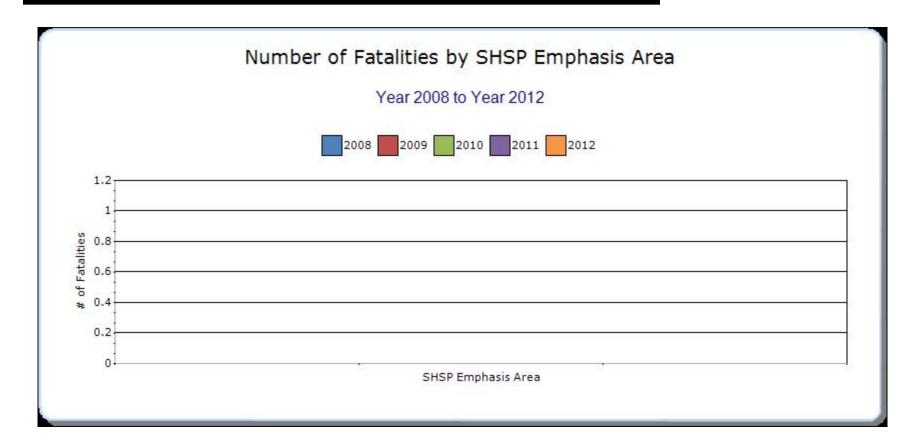
Alaska has initiated a process to accept systemic projects into the HSIP.

SHSP Emphasis Areas

For each SHSP emphasis area that relates to the HSIP, present trends in emphasis area performance measures.

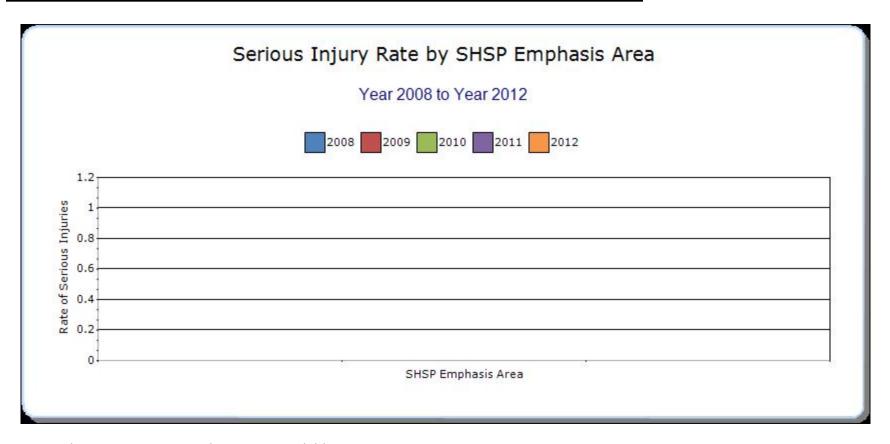
Year - 2012

HSIP-related SHSP Emphasis Areas	Target Crash Type	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)	Other- 1	Other- 2	Other-
Roadways	Lane Departure, Intersection	50	0	1.05	0	0	0	0
Driver Behavior	Young Drivers, Impaired Driving	30	0	0.62	0	0	0	0
Special Users	Pedestrians, Bicycles, Motorcycles	17	0	0.36	0	0	0	0









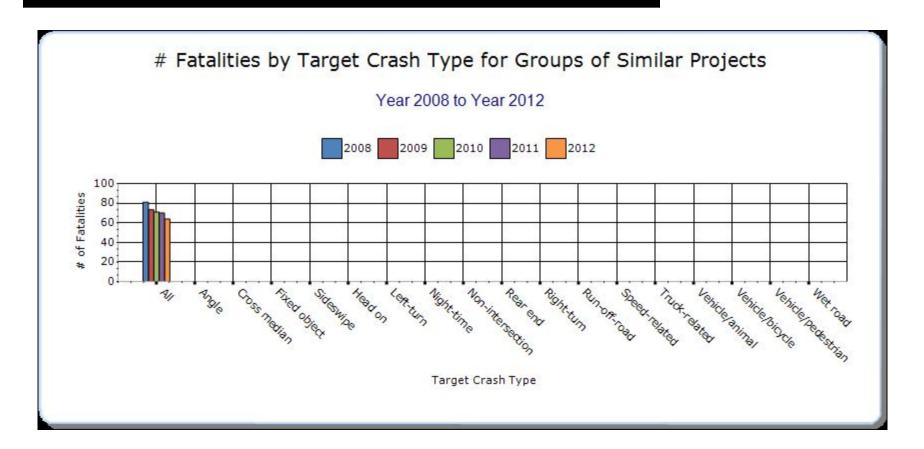
2011 and 2012 serious injury data is not available.

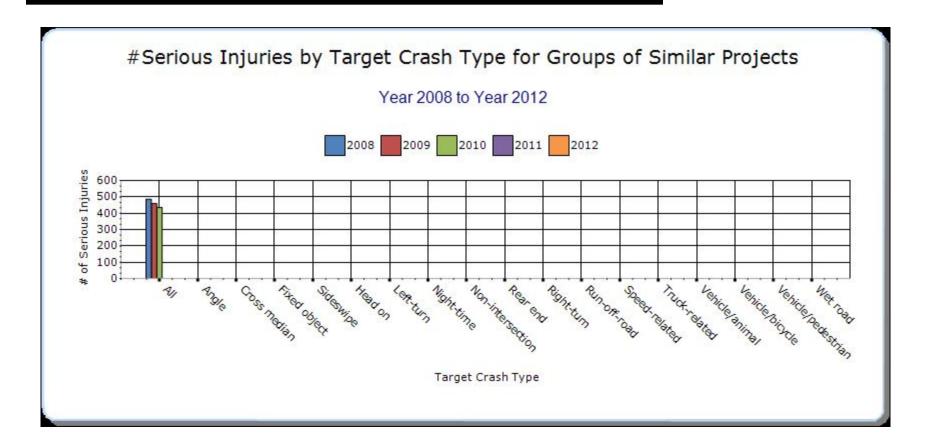
Groups of similar project types

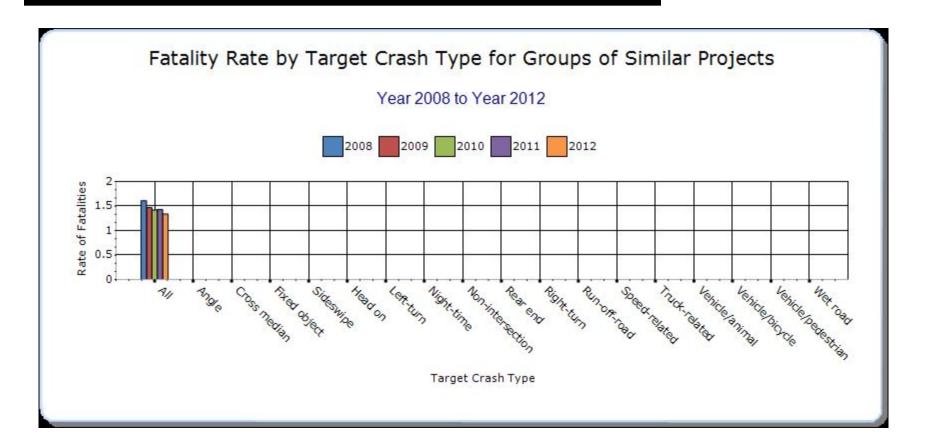
Present the overall effectiveness of groups of similar types of projects.

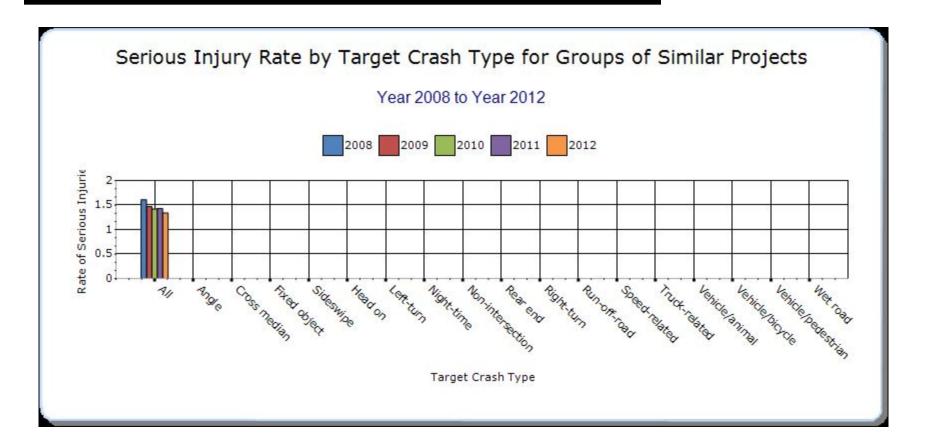
Year - 2012

HSIP Sub-program Types	Target Crash Type	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)	Other- 1	Other- 2	Other- 3
Other-Entire HSIP	All	64	0	1.34	0	0	0	0







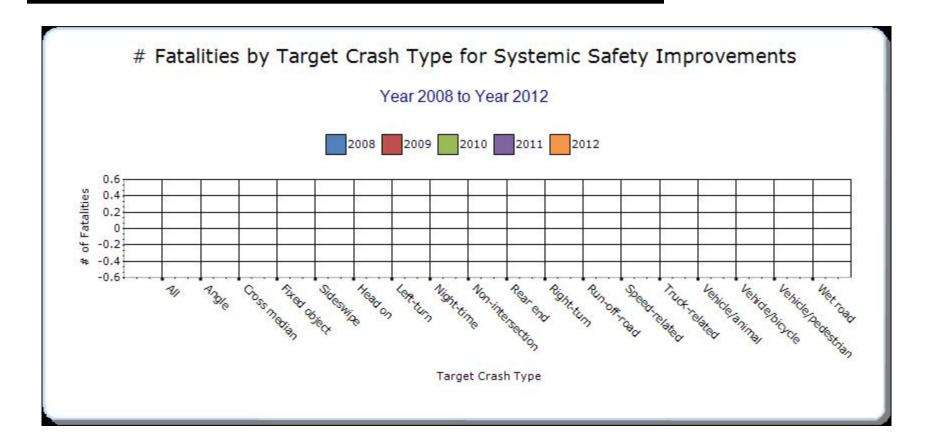


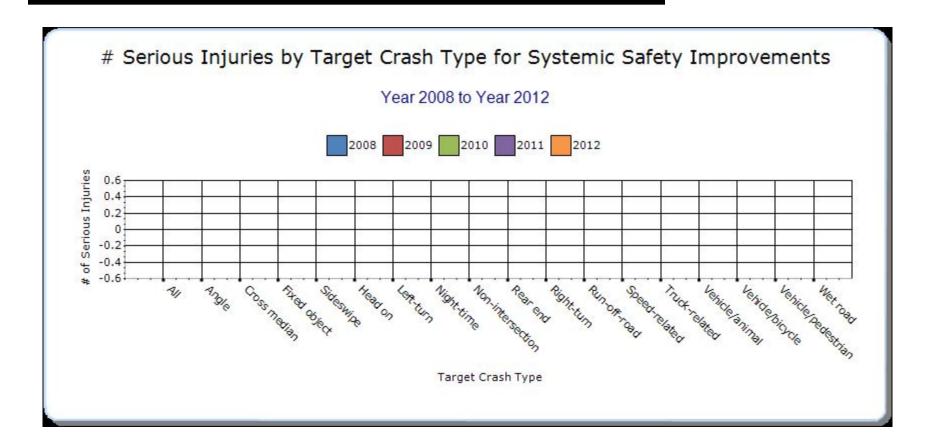
Systemic Treatments

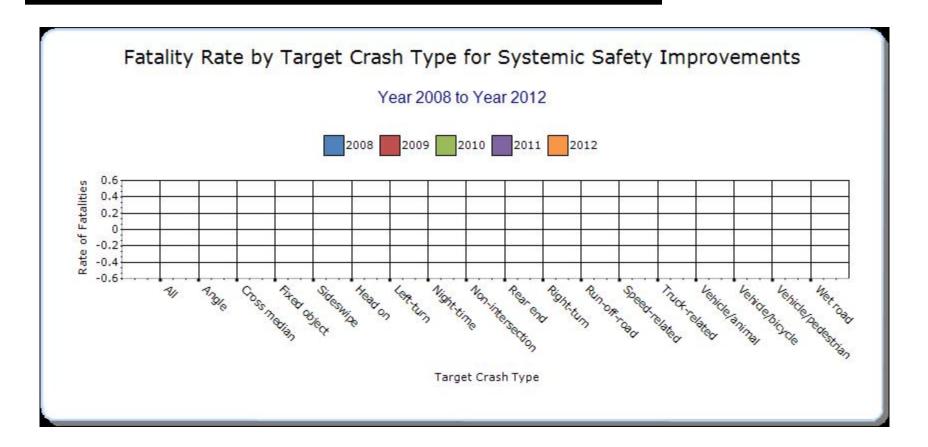
Present the overall effectiveness of systemic treatments..

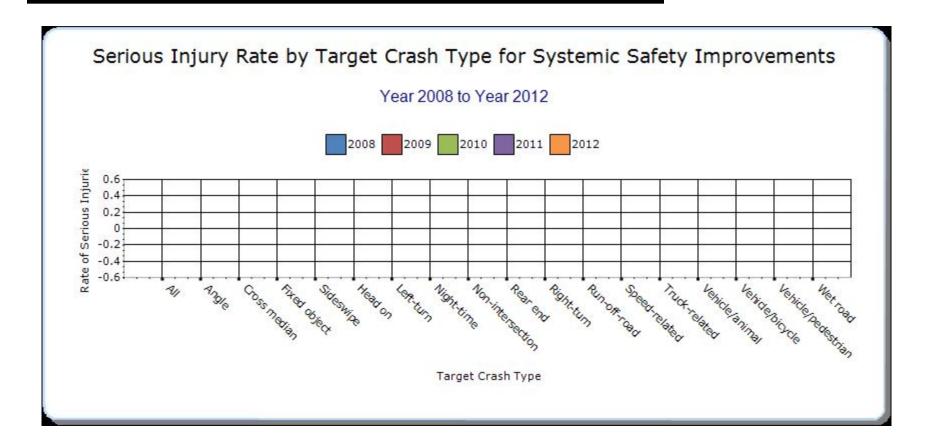
Year - 2012

Systemic improvement	Target Crash Type	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)	Other- 1	Other- 2	Other- 3
		0	0	0	0	0	0	0









Describe any other aspects of the overall Highway Safety Improvement Program effectiveness on which you would like to elaborate.

No response.

Provide project evaluation data for completed projects (optional).

Location	Functional Class	Improvement Category	Improvement Type		Bef- Serious Injury	Bef- Other Injury	Bef- PDO				Aft- Other Injury		Aft- Total	Evaluation Results (Benefit/ Cost Ratio)
Northern Lights at Rose Street, Anchorage	Urban Principal Arterial - Other	Access management	Change in access - close or restrict existing access	0	0	7	3	10	0	0	0	5	5	7.12
Parks Highway MP 315- 321	Rural Principal Arterial - Other	Roadway signs and traffic control	Roadway signs and traffic control - other	1	2	11	12	26	0	0	3	3	6	30.75

Optional Attachments

Sections Files Attached

Program Structure: Program Administration 2013.03.21 HSIP Hdbk FINALwAppdx.pdf

Glossary

5 year rolling average means the average of five individual, consecutive annual points of data (e.g. annual fatality rate).

Emphasis area means a highway safety priority in a State's SHSP, identified through a data-driven, collaborative process.

Highway safety improvement project means strategies, activities and projects on a public road that are consistent with a State strategic highway safety plan and corrects or improves a hazardous road location or feature or addresses a highway safety problem.

HMVMT means hundred million vehicle miles traveled.

Non-infrastructure projects are projects that do not result in construction. Examples of non-infrastructure projects include road safety audits, transportation safety planning activities, improvements in the collection and analysis of data, education and outreach, and enforcement activities.

Older driver special rule applies if traffic fatalities and serious injuries per capita for drivers and pedestrians over the age of 65 in a State increases during the most recent 2-year period for which data are available, as defined in the Older Driver and Pedestrian Special Rule Interim Guidance dated February 13, 2013.

Performance measure means indicators that enable decision-makers and other stakeholders to monitor changes in system condition and performance against established visions, goals, and objectives.

Programmed funds mean those funds that have been programmed in the Statewide Transportation Improvement Program (STIP) to be expended on highway safety improvement projects.

Roadway Functional Classification means the process by which streets and highways are grouped into classes, or systems, according to the character of service they are intended to provide.

Strategic Highway Safety Plan (SHSP) means a comprehensive, multi-disciplinary plan, based on safety data developed by a State Department of Transportation in accordance with 23 U.S.C. 148.

Systemic safety improvement means an improvement that is widely implemented based on high risk roadway features that are correlated with specific severe crash types.

Transfer means, in accordance with provisions of 23 U.S.C. 126, a State may transfer from an apportionment under section 104(b) not to exceed 50 percent of the amount apportioned for the fiscal year to any other apportionment of the State under that section.