

KITTITAS COUNTY
DEPARTMENT OF PUBLIC WORKS

AGENDA STAFF REPORT

AGENDA DATE: June 17, 2014

ACTION REQUESTED: Adopt a Kittitas County Road Safety Plan 2014.

BACKGROUND: WSDOT invited counties to apply for federal highway Safety Improvement Program funds for safety projects. WSDOT is requiring counties to develop a local road safety plan using a data-driven approach that the safety project proposals are based on prior to submitting an application for funding. Jan Ollivier attended a WSDOT workshop on March 4th to instruct the counties on how to develop the local road safety plans.

The Kittitas County Road Safety Plan 2014 used crash data and road log data to prioritize locations for low cost safety improvements. Low cost safety improvements can include removing roadside safety hazards, reducing steep side slopes if it isn't cost prohibitive, and either alerting or protecting drivers from running off the side of the road with guardrail, rumble strips, or traffic delineators – as deemed needed using engineering standards. The roads needing safety improvements, as prioritized in the Kittitas County Road Safety Plan 2014, included:

- | | |
|----------------------|--------------------|
| 1. Huntzinger Road | MP 0.24 to MP 6.99 |
| 2. Westside Road | MP 4.10 to MP 7.29 |
| 3. Thorp Prairie Rd | MP 0.00 to MP 3.51 |
| 4. Casassa Road | MP 0.00 to MP 1.12 |
| 5. Denmark Road | MP 3.08 to MP 4.35 |
| 6. Horvatt Road | MP 0.00 to MP 0.46 |
| 7. Lyons Road | MP 0.00 to MP 1.49 |
| 8. MF Teanaway Rd | MP 0.00 to MP 1.19 |
| 9. Reecer Creek Rd | MP 4.80 to MP 6.68 |
| 10. Teanaway Road | MP 0.00 to MP 0.02 |
| 11. Thomas Road | MP 0.00 to MP 1.51 |
| 12. Via Kachess Rd | MP 0.00 to MP 2.22 |
| 13. Watson Cutoff Rd | MP 0.00 to MP 1.12 |

INTERACTION: Public Works

RECOMMENDATION: Authorize Chair signature adopting the Kittitas County Road Safety Plan 2014.

HANDLING:

Please return a signed resolution to Public Works.

ATTACHMENTS:

Resolution

Kittitas County Road Safety Plan 2014

WSDOT HSIP County Safety Program 2014 call for projects

LEAD STAFF:

Jan Ollivier, Transportation Manager

BOARD OF COUNTY COMMISSIONERS
COUNTY OF KITTITAS
STATE OF WASHINGTON

RESOLUTION

NO. _____

TO ADOPT A 2014 COUNTY ROAD SAFETY PLAN FOR KITTITAS COUNTY

WHEREAS: In accordance with Washington State Department of Transportation's (WSDOT) 2014 Federal Highway Safety Improvement Program (HSIP) County Safety Program call for projects, the County Engineer has prepared a Kittitas County Road Safety Plan 2014; and

WHEREAS: The Kittitas County Road Safety Plan 2014 identifies prioritized locations for low cost safety improvements based upon crash and road log data as set forth in WSDOT's 2014 HSIP County Safety Program call for projects; and

NOW, THEREFORE BE IT RESOLVED that the Board of County Commissioners, after due consideration, does hereby adopt the said Kittitas County Road Safety Plan 2014, hereto attached, as now submitted by the Kittitas County Director of Public Works and County Engineer.

DATED this _____ day of _____, 2014 at Ellensburg, Washington.

**BOARD OF COUNTY COMMISSIONERS
KITTITAS COUNTY, WASHINGTON**

Paul Jewell, Chair

Gary Berndt, Vice-Chair

Obie O'Brien, Commissioner

ATTEST:

Clerk of the Board

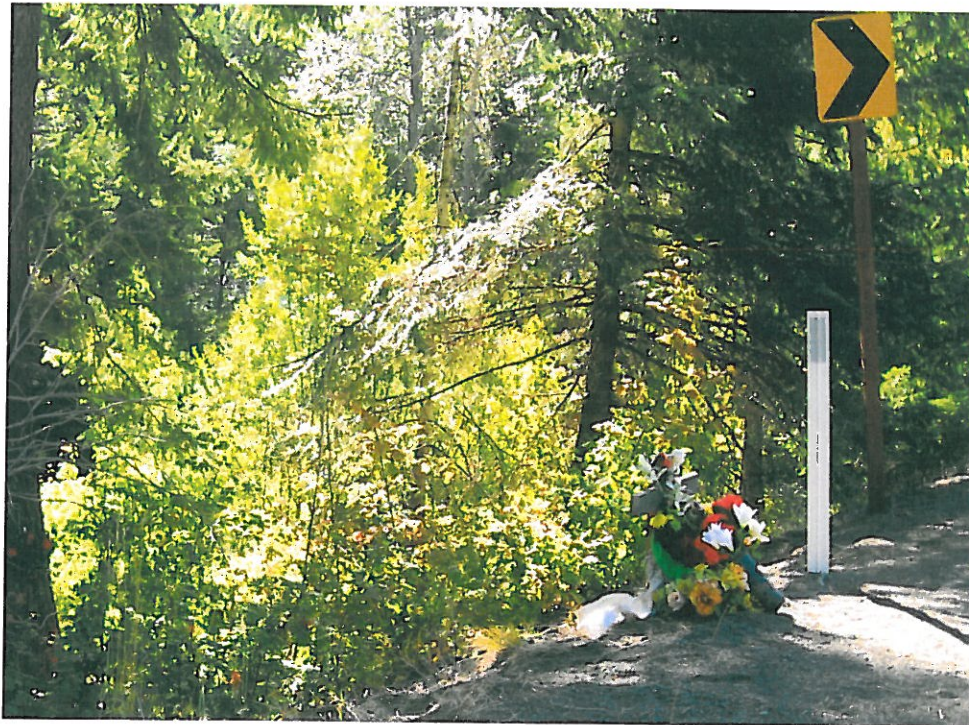
Kittitas County Road Safety Plan 2014

June 17, 2014

Kittitas County Public Works Department

411 North Ruby Street, Suite 1

Ellensburg, WA 98926



Westside Road Mile Post 4.4 - Fatality Site

Introduction

The Kittitas County Road Safety Plan is a comprehensive program of safety improvements on county roads. This program of improvements was developed by determining the types of crashes that occur disproportionately in our county as compared to all counties in the state and all public roads in the state. Analysis was performed to reveal where crashes are occurring and other factors that could contribute to crashes including the roadway characteristics, time of day, and type of vehicle.

Data used for this evaluation was provided by Washington State Department of Transportation (WSDOT). The data was from four years of detailed information about crashes on Kittitas County roads (2008 through 2012). WSDOT directed Kittitas County to prioritize needed safety improvements eligible for WSDOT Safety Program grants based on this collision data.

The collision data showed that fatal and serious injury collisions occur at a disproportionately higher rate on county roads than on all public roads in Washington State (see Table 1). Therefore, this Safety Plan focuses on reducing potential fatal and serious injury collisions in Kittitas County.

TABLE 1
2008 through 2012 Crash Data
Collision Severity

Collision Type	Kittitas County		All Counties – Co. Maintained Roads		All Public Roads	
	# crashes	% of crashes	# crashes	% of crashes	# crashes	% of crashes
Fatal	5	0.7%	682	1.0%	2,190	0.4%
Serious Injuries	24	3.6%	2,564	3.6%	10,257	2.0%
Property Damage Only	644	95.7%	67,032	95.4%	501,547	97.6%
Total Collision Types	673	-----	70,278	-----	513,994	-----

As shown in Table 2 below, the cause of fatal and serious injury collisions in Kittitas County is typically due to “hitting a fixed object” and “overturning.” Out of all of the fatal and serious injury collisions, 69% were caused by drivers running into a fixed object such as ditches, embankments, and fences. An additional 21% of the fatal and serious injury collisions were caused by vehicles overturning. Fatal and serious injury collisions mainly occurred under at least one of the following types of conditions: dark or dusk lighting, at non-intersection locations, on roadway curves (horizontal curve), exceeding safe speed, crossing over the centerline, vehicle type of motorcycle, and on roads with 50 mph speed limits. See Table 2 for more details.

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Deleted: are occurring at a disproportionately higher rate

Deleted: as compared to state averages for the categories of

TABLE 2
2008 through 2012 Crash Data
Fatal/Serious Injury Collision Types and Conditions

<i>Collision Type</i>	<i>Kittitas County</i>		<i>All Counties – Co. Maintained Roads</i>		<i>All Public Roads</i>	
	<i># crashes</i>	<i>% of crashes</i>	<i># crashes</i>	<i>% of crashes</i>	<i># crashes</i>	<i>% of crashes</i>
Hit Fixed Object – Roadway Ditch	6	20.7%	171	5.3%	339	2.7%
Hit Fixed Object – Ran Over Embankment	6	20.7%	136	4.2%	229	1.8%
Hit Fixed Object – Fence	2	6.9%	105	3.2%	214	1.7%
Hit Fixed Object – Guardrail	1	3.5%	56	1.7%	247	2.0%
Hit Fixed Object – Utility Pole	1	3.5%	146	4.5%	317	2.6%
Hit Fixed Object – Earth Bank	1	3.5%	103	3.2%	249	2.0%
Hit Fixed Object – Tree	1	3.5%	334	10.3%	642	5.2%
Hit Fixed Object – Mail box	1	3.5%	49	1.5%	72	0.6%
Hit Fixed Object – Culvert	<u>1</u>	<u>3.5%</u>	<u>47</u>	<u>1.5%</u>	<u>63</u>	<u>0.5%</u>
Total Hit Fixed Object	20	69.0%	1,340	41.3%	3,439	27.6%
Overturn	6	20.7%	424	13.1%	1,281	10.3%
Light Condition – Dark, No Street Lights	12	41.4%	941	29.0%	2,014	16.2%
Light Condition – Dusk	<u>4</u>	<u>13.8%</u>	<u>122</u>	<u>3.8%</u>	<u>412</u>	<u>3.3%</u>
TOTAL Light Condition	16	55.2%	1,063	32.8%	2,426	19.5%
Non-Intersection – Not Related	26	89.7%	2,117	65.2%	6,705	53.9%
Road Curvature – Horizontal Curve	21	72.4%	1,282	39.5%	3,353	26.9%
Over Centerline	9	19.1%	619	12.8%	1,606	9.0%
Motorcycle	10	20.4%	703	15.7%	2,459	12.8%
Posted Speed at 50 mph	18	60.0%	1,057	25.2%	1,944	11.2%

Roadside safety improvements are identified in this plan to reduce the severity and number of collisions on Kittitas County roads where it is most likely that run-off the road crashes will occur.

From a safety perspective, the ideal roadway has roadsides that are flat and unobstructed by hazards. A clear roadside area and a gradual slope allow drivers to safely recover control of a vehicle. This clear recovery area is the goal in improving roadside safety but is often cost prohibitive due to the geography of the area. In cases where it is cost prohibitive to create a fairly flat unobstructed roadside, alternative improvements that would reduce the severity of an impact or alert a driver to a hazard can be considered such as breakaway features on posts, guardrail, rumble strips, or traffic delineators. This plan focuses on these types of improvements for reducing fatal and serious injury collisions on county maintained roads.

Prioritization Methodology

WSDOT instructed the County to use the collision data, along with other pertinent roadway data the County has, to identify locations for making safety improvements. The collision data that directly links to Kittitas County's roadside characteristics shows a high percentage of fatal and serious injury collisions are occurring on roads with steep ditches, embankments and/or fixed objects in the way. These types of collisions are also occurring where there is no lighting, at non-intersection locations, on roadway curves

(horizontal curve), and on roads with 50 mph speed limits. Kittitas County also has a high percentage of motorcycle collisions.

There were additional characteristics in the County's road log that also showed a high frequency of fatal and serious injury collisions. These characteristics included whether or not the road was paved, a pavement width of 26' or less, and an Average Daily Traffic (ADT) volume of 175 or more.

The locations of fatal and serious injury collisions and all of the conditions that appear to contribute to these types of collisions are shown in Table 3.

TABLE 3 FATAL and SERIOUS INJURY Collisions in Kittitas County														
Report Number	Date	Primary Roadway	Mile Post	Hit fixed Object?	Object Hit	Overturn?	Dark?	Dusk?	At Intersection?	On Curve?	Over Centerline?	Motorcycle?	Paved?	Posted Speed?
FATAL COLLISIONS														
2867666	04/27/08	BOWERS RD	0.25		-----	Y	Y			Y			Y	36 195 35
2866106	01/24/10	SPARKS RD	0.076	Y	Guardrail - Face		Y				Y		Y	28 523 25
E121763	08/20/11	WESTSIDE RD	4.4	Y	Over Embankment			Y		Y	Y	Y	Y	26 551 35
E144064	12/18/11	WILSON CREEK RD	2.3	Y	Fence			Y					Y	26 1,587 50
2866428	05/04/12	LOOK RD	1.45	Y	Roadway Ditch		Y		Y	Y			Y	28 1,100 50
SERIOUS INJURY COLLISIONS														
2588568	04/16/08	THORP PRAIRIE RD	2.12	Y	Roadway Ditch					Y		Y	Y	26 177 50
2867594	05/30/08	HUNTZINGER RD	1.78	Y	Over Embankment		Y			Y			Y	24 437 50
2867678	06/07/08	GREEN DOT FSKD	---			Y		Y						Not Co. Road
2868102	03/07/09	FAIRVIEW RD	7.45				Y						Y	22 372 50
2868083	03/21/09	THORP PRAIRIE RD	0.76	Y	Earth Bank or Ledge		Y			Y			Y	26 177 50
2868116	06/21/09	THRALL RD	3.97	Y	Roadway Ditch						Y		Y	26 457 50
2588813	07/04/09	WESTSIDE RD	4.138				Y			Y	Y	Y	Y	26 551 35
2868099	07/05/09	SUNLIGHT DR	0.5	Y	Over Embankment					Y	Y	Y	Y	20 409 35
2867832	07/23/09	HUNTZINGER RD	0.423			Y							Y	24 437 35
E024831	08/09/09	ELK HEIGHTS RD	0.559	Y	Utility Pole					Y				Not Co. Road
2867470	08/22/09	REECER CREEK RD	4.857	Y	Roadway Ditch					Y	Y	Y	Y	24 203 50
E027608	09/13/09	NELSON SIDING RD	1.605	Y	Roadway Ditch		Y			Y			Y	26 500 50
2867835	10/09/09	BOWERS RD	0.25	Y	Over Embankment		Y			Y			Y	36 195 35
2866130	03/28/10	REECER CRK RD	4.838	Y	Mailbox					Y	Y	Y	Y	24 203
2866132	04/14/10	LOOK RD	3.4							Y	Y		Y	28 900 50
2866158	08/03/10	WILSON CRK RD	7.82	Y	Fence		Y			Y	Y	Y	Y	24 196
E063919	08/17/10	HANSEN RD	2.83	Y	Culvert and/or other Appurtenance in Ditch						Y		Y	28 306
2866116	08/22/10	UMPTANUM RD	8.76			Y				Y	Y			0 182 50
2866042	11/09/10	BAKERS RD	0.387	Y	Over Embankment		Y			Y			Y	28 16 25
2866119	11/13/10	HUNTZINGER RD	2			Y	Y			Y	Y		Y	24 437 50
2866168	11/14/11	DENMARK RD	3.57	Y	Over Embankment					Y			Y	20 312 50
E179966	07/09/12	WHITE RD	0.025			Y	Y			Y	Y		Y	28 205 35
E183902	07/13/12	ROPE RIDER DR	---	Y	Tree or Stump		Y			Y				Not Co. Road
2866172	09/27/12	NANEUM RD	2.54	Y	Roadway Ditch		Y		Y				Y	20 379 50

Due to the rural nature of our county, almost all Kittitas County roads fall under the category “no lighting,” so this characteristic was not evaluated further. Additionally, most of the roads have a pavement width of 26’ or less, so the evaluation considered only roads that are 24’ or less in width to focus on the narrowest roads for safety improvements. The “motorcycle” category was not evaluated further because it is not a road characteristic.

In order to have the greatest potential impact in reducing collisions, the County considered roads for evaluation and prioritization for safety improvements with the following characteristics:

MINIMUM CRITERIA FOR INCLUDING ROAD SEGMENT IN SAFETY PLAN:

- Paved (ACP, HMA, or BST).
- Pavement width of 24’ or less.
- ADT of 175 or more.
- Posted speeds of 35 or more.
- Collision at this site in the past 4 years.
- Roads that have been previously identified in the County’s hazard elimination plan.

The county road segments with the characteristics listed above were prioritized using contributing factors identified from the collision data. The prioritization factors and their scores are shown in Table

4. The resulting road segment prioritization is shown in Table 5.

TABLE 4
Key Factors and Weighted Scores

<i>Item Number</i>	<i>Factors and Collision Types</i>	<i>Score</i>
1	OVERALL CRITERIA MET:	
	Meets minimum criteria and was included in previous hazard elimination plan	20
	Does not meet minimum criteria and was included in previous hazard elim. plan	10
	Meets minimum criteria but not included in previous hazard elimination plan	5
2	INADEQUATE CLEAR ZONE WITH STEEP EMBANKMENT OR DITCHES (NO GUARDRAIL)	
	Over 50% of the side slopes are too steep	20
	About 10% to 50% of side slopes too steep	10
	At least one section has side slopes too steep	5
3	FIXED OBJECTS IN CLEAR ZONE (FENCE, UTILITY POLES, TREE, MAIL BOX, ETC.)	
	Over 50% of the road has fixed objects in clear zone	20
	About 10% to 50% of the road has fixed objects in clear zone	10
	At least one section of the road has fixed objects in clear zone	5
4	ROADWAY CURVATURE – HORIZONTAL CURVE	
	Over 50% of the road is in a horizontal curve	20
	About 10% to 50% of the road is in a horizontal curve	10
	At least one section of the road is in a horizontal curve	5
5	ONE OR MORE FATAL OR SERIOUS INJURY COLLISION(S) – 2008 THROUGH 2012	15 ea.

TABLE 5
Kittitas County's Prioritized Road Segments for Safety Improvements
 (see Table 4 for score descriptions)

Road Number	Road Name	Beg. MP	End. MP	Total Pavement	Speed Limit	ADT	Item 1	Item 2	Item 3	Item 4	Item 5	total score
75040	HUNTZINGER RD	0.24	2.70	24	50	437	5	5	20	5	45	80
22710	WESTSIDE RD	4.10	7.29	22	35	551	5	10	10	20	30	75
75040	HUNTZINGER RD	2.70	5.07	24	50	385	5	20	20	20	0	65
75040	HUNTZINGER RD	5.07	6.99	24	50	385	5	20	20	20	0	65
52770	THORP PRAIRIE RD	0.00	3.51	26	50	177	10	0	0	20	30	60
26180	CASASSA RD	0.00	1.12	22	35	308	5	10	20	20	0	55
63501	DENMARK RD	3.08	4.35	20	50	312	5	10	5	20	15	55
25850	HORVATT RD	0.00	0.46	22	35	206	20	10	10	10	0	50
75040	HUNTZINGER RD	6.99	10.74	24	50	371	5	5	20	20	0	50
40772	LYONS RD	0.00	1.49	18	50	243	20	10	20	0	0	50
29510	MIDDLE FORK TEANAWAY RD	0.00	1.19	20	50	91	10	10	20	10	0	50
93526	REECER CREEK RD	4.80	6.68	24	50	203	5	0	5	10	30	50
28500	TEANAWAY RD	0.00	0.02	22	50	428	20	0	10	20	0	50
43132	THOMAS RD	0.00	1.51	20	50	254	20	0	10	20	0	50
96937	UMPTANUM RD	3.10	5.22	24	50	182	5	5	20	20	0	50
13700	VIA KACHESS RD	0.00	2.22	24	25	232	10	0	20	20	0	50
25620	WATSON CUTOFF RD	0.00	1.12	22	35	153	10	10	10	20	0	50
95611	BROWN RD	1.80	1.81	20	50	650	5	10	10	20	0	45
92275	BULLFROG RD	2.03	2.04	10	35	2170	5	0	20	20	0	45
64360	CARIBOU RD	0.00	1.10	26	35	39	10	5	20	10	0	45
64360	CARIBOU RD	1.10	2.82	22	35	178	5	10	20	10	0	45
69511	CLERF RD	0.00	1.88	20	50	663	20	10	10	5	0	45
43883	COOKE CANYON RD	0.00	2.04	24	50	167	10	10	20	5	0	45
55370	HUNTER RD	0.00	1.51	20	50	333	5	10	20	10	0	45
38350	LIBERTY RD	0.00	0.07	26	35	110	10	20	10	5	0	45
22770	LOWER PEOH POINT RD	0.34	0.59	22	35	1609	20	20	5	0	0	45
95301	MANASTASH RD	5.58	11.01	22	35	567	5	10	10	20	0	45
95417	THORP HWY NORTH	6.54	6.63	24	35	800	5	0	20	20	0	45
95600	HANSON RD	3.08	3.60	22	35	314	5	5	20	10	0	40
33800	HOWARD RD	0.00	0.99	22	50	217	20	5	10	5	0	40
95301	MANASTASH RD	3.56	5.58	22	35	528	5	5	20	10	0	40
25860	MCDONALD RD	0.00	0.60	20	25	89	10	0	10	20	0	40
31412	MCMANAMY RD	0.00	0.04	30	35	119	10	0	20	10	0	40
69370	PARKE CREEK RD	2.61	4.64	22	50	243	5	10	5	20	0	40
35285	ROBBINS RD	0.00	2.07	22	50	248	20	5	5	10	0	40
40315	SANDERS RD	0.13	0.25	20	35	2114	20	0	20	0	0	40
40130	SEATON RD	0.00	0.47	20	25	42	10	0	10	20	0	40

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69460	STEVENS RD	0.00	3.46	20	50	113	10	0	10	20	0	40
TABLE 5 continued Kittitas County's Prioritized Road Segments for Safety Improvements (see Table 4 for score descriptions)												
Road Number	Road Name	Beg. MP	End. MP	Total Pavement	Speed Limit	ADT	Item 1	Item 2	Item 3	Item 4	Item 5	total score
94126	WILSON CREEK RD	7.40	8.94	24	50	196	5	0	10	10	15	40
53650	BARNES RD	0.00	0.78	20	50	373	5	10	10	10	0	35
95611	BROWN RD	1.16	1.80	20	50	840	5	10	10	10	0	35
95501	COVE RD	0.00	1.14	24	35	217	20	0	10	5	0	35
63500	FAIRVIEW RD	0.00	0.98	22	50	291	20	10	5	0	0	35
94051	GAME FARM RD	0.00	0.28	24	35	991	20	5	10	0	0	35
94051	GAME FARM RD	1.04	2.54	20	50	205	5	10	20	0	0	35
31510	HUNGRY JUNCTION RD	0.00	1.20	20	50	529	20	5	10	0	0	35
35503	KERR RD	0.00	0.28	18	50	27	10	5	20	0	0	35
54250	KILLMORE RD	0.18	2.44	20	50	200	5	10	10	10	0	35
29261	LEY RD	0.00	1.22	0	35	11	10	0	20	5	0	35
22770	LOWER PEOH POINT RD	0.59	2.90	22	35	409	5	10	10	10	0	35
25880	NORTH FORK TEANAWAY RD	0.00	5.80	22	50	118	10	5	10	10	0	35
53010	RIVERBOTTOM RD	0.00	1.83	20	35	755	5	10	10	10	0	35
64860	STINGLEY RD	0.00	0.51	18	25	120	10	0	20	5	0	35
56770	TANEUM RD WEST	2.84	4.80	20	35	72	10	10	5	10	0	35
28500	TEANAWAY RD	0.02	0.11	22	50	428	5	20	5	5	0	35
28500	TEANAWAY RD	0.73	7.29	22	50	201	5	10	10	10	0	35
22710	WESTSIDE RD	2.14	3.94	22	35	438	5	10	10	10	0	35
42271	ALFORD RD	0.00	0.15	28	50	410	10	0	0	20	0	30
41271	BRICK MILL RD	4.10	4.87	20	50	524	5	5	10	10	0	30
95611	BROWN RD	1.81	2.68	18	50	767	5	5	10	10	0	30
95501	COVE RD	1.14	2.15	24	50	295	5	10	5	10	0	30
23210	HUNDLEY RD	0.00	1.43	28	35	916	10	5	10	5	0	30
31510	HUNGRY JUNCTION RD	1.74	2.84	20	50	669	5	5	20	0	0	30
40271	JUDGE RONALD RD	0.00	0.13	16	35	118	10	0	20	0	0	30
22512	LAMBERT RD	0.00	1.09	20	35	285	5	5	20	0	0	30
34383	LOWER GREEN CANYON RD	0.00	0.28	24	50	201	20	5	0	5	0	30
42000	NANEUM RD	0.00	1.00	20	35	708	20	0	10	0	0	30
42000	NANEUM RD	2.54	4.11	20	50	379	5	0	5	5	15	30
42012	RADER RD	0.00	1.35	24	50	240	20	0	10	0	0	30
40315	SANDERS RD	0.50	1.03	20	35	1630	5	0	20	5	0	30
95417	THORP HWY NORTH	7.69	10.43	20	50	207	5	0	5	20	0	30
95417	THORP HWY SOUTH	0.00	0.34	28	50	2949	10	0	0	20	0	30
64756	UPPER BADGER POCKET RD	1.27	5.61	22	50	380	5	0	5	20	0	30
54150	WEAVER RD	0.00	2.18	20	50	331	20	0	5	5	0	30
94126	WILSON CREEK RD	0.00	0.50	22	35	1755	20	0	10	0	0	30

23010	AIRPORT RD (CLE ELUM)	0.41	2.73	22	35	262	5	5	10	5	0	25
TABLE 5 continued Kittitas County's Prioritized Road Segments for Safety Improvements (see Table 4 for score descriptions)												
Road Number	Road Name	Beg. MP	End. MP	Total Pavement	Speed Limit	ADT	Item 1	Item 2	Item 3	Item 4	Item 5	total score
23370	BALLARD HILL RD	0.00	0.82	20	35	173	10	5	5	5	0	25
93075	BENDER RD	0.59	0.68	20	35	1471	5	10	10	0	0	25
41271	BRICK MILL RD	0.97	2.42	20	50	517	5	10	10	0	0	25
41271	BRICK MILL RD	6.19	6.43	24	50	337	5	0	20	0	0	25
95630	BRONDT RD	0.00	0.62	20	50	228	5	10	10	0	0	25
95611	BROWN RD	0.00	1.16	20	35	693	5	10	5	5	0	25
32011	CLARKE RD	0.00	1.31	22	35	71	10	5	10	0	0	25
63500	FAIRVIEW RD	5.03	6.05	18	50	185	5	10	10	0	0	25
63500	FAIRVIEW RD	6.05	7.42	20	50	731	5	10	10	0	0	25
63500	FAIRVIEW RD	7.42	8.07	22	50	372	5	0	5	0	15	25
62701	FERGUSON RD NORTH	1.02	2.01	22	50	334	5	10	10	0	0	25
94051	GAME FARM RD	0.28	0.67	22	35	991	5	10	10	0	0	25
94051	GAME FARM RD	0.67	1.04	24	35	991	5	10	10	0	0	25
25502	GODAWA LANE	0.00	0.68	0	50	94	10	0	10	5	0	25
65000	HAMILTON RD	0.00	1.03	20	50	176	5	10	10	0	0	25
64261	HEMINGSTON RD	0.52	0.95	24	50	281	5	0	20	0	0	25
34002	KLOCKE RD	0.00	0.53	24	35	211	5	5	10	5	0	25
22770	LOWER PEOH POINT RD	2.90	5.05	20	35	221	5	10	10	0	0	25
95301	MANASTASH RD	1.36	3.35	24	50	1326	5	10	10	0	0	25
22650	RED BRIDGE RD	0.00	0.16	22	25	191	10	0	5	10	0	25
56280	SISTERS RD	0.00	0.61	20	35	78	10	0	10	5	0	25
56160	STRANDE RD	0.71	0.78	22	35	300	5	0	10	10	0	25
56770	TANEUM RD EAST	0.00	1.00	22	50	158	10	5	10	0	0	25
95417	THORP HWY NORTH	5.65	6.42	22	35	908	5	0	10	10	0	25
95417	THORP HWY SOUTH	0.34	0.43	24	50	2332	5	0	0	20	0	25
24610	UPPER PEOH POINT RD	5.32	6.56	24	35	500	5	0	0	20	0	25
23010	AIRPORT RD (CLE ELUM)	0.23	0.41	22	35	843	5	0	10	5	0	20
68910	BADGER POCKET RD	0.00	0.57	22	50	689	5	0	10	5	0	20
68910	BADGER POCKET RD	3.35	4.39	18	50	282	5	10	5	0	0	20
93075	BENDER RD	0.00	0.59	24	35	1471	5	10	5	0	0	20
41271	BRICK MILL RD	0.09	0.97	22	50	470	5	10	5	0	0	20
41271	BRICK MILL RD	2.42	3.22	20	35	868	5	5	5	5	0	20
41271	BRICK MILL RD	3.22	4.10	20	35	868	5	0	10	5	0	20
40600	BRICK RD	1.12	1.22	22	35	1050	5	5	5	5	0	20
95501	COVE RD	2.15	3.14	24	50	437	5	5	5	5	0	20
63501	DENMARK RD	0.00	0.50	20	50	96	10	10	0	0	0	20
93025	DRY CREEK RD	0.64	0.99	26	35	851	10	5	0	5	0	20

93025	DRY CREEK RD	2.32	2.42	24	35	300	5	5	5	5	0	20
TABLE 5 continued Kittitas County's Prioritized Road Segments for Safety Improvements (see Table 4 for score descriptions)												
Road Number	Road Name	Beg. MP	End. MP	Total Pavement	Speed Limit	ADT	Item 1	Item 2	Item 3	Item 4	Item 5	total score
63500	FAIRVIEW RD	0.98	1.94	22	50	291	5	10	5	0	0	20
95301	MANASTASH RD	0.00	0.74	28	50	1518	10	5	5	0	0	20
63245	PAYNE RD	0.00	1.55	18	50	249	5	0	10	5	0	20
15740	RAILROAD ST	0.00	0.71	32	35	470	10	0	0	10	0	20
33513	SMITHSON RD	0.00	2.78	20	50	80	10	5	5	0	0	20
56160	STRANDE RD	0.00	0.71	18	35	300	5	0	10	5	0	20
55550	THORP CEMETERY RD	0.00	3.02	24	50	338	5	0	5	10	0	20
95417	THORP HWY NORTH	6.79	7.69	20	50	339	5	5	5	5	0	20
95417	THORP HWY SOUTH	1.74	3.35	24	50	515	5	0	5	10	0	20
95417	THORP HWY SOUTH	3.35	4.72	24	50	684	5	0	5	10	0	20
96937	UMPTANUM RD	2.68	3.10	24	50	364	5	0	10	5	0	20
64756	UPPER BADGER POCKET RD	5.61	6.29	22	50	320	5	0	5	10	0	20
22710	WESTSIDE RD	0.19	0.25	34	35	1009	10	0	0	10	0	20
94126	WILSON CREEK RD	6.66	7.40	24	50	271	5	0	10	5	0	20
95611	BROWN RD	2.68	2.73	22	50	600	5	0	5	5	0	15
13090	CABIN CREEK RD	0.00	0.02	24	25	39	10	5	0	0	0	15
95501	COVE RD	3.14	3.72	24	50	661	5	5	5	0	0	15
63501	DENMARK RD	0.50	3.08	20	50	218	5	5	5	0	0	15
34761	FAUST RD	0.00	0.23	22	35	219	5	0	10	0	0	15
34761	FAUST RD	0.23	0.46	22	35	309	5	5	5	0	0	15
31510	HUNGRY JUNCTION RD	1.20	1.50	20	35	529	5	5	5	0	0	15
31510	HUNGRY JUNCTION RD	1.50	1.74	20	50	529	5	5	5	0	0	15
31510	HUNGRY JUNCTION RD	2.84	3.25	20	50	550	5	0	10	0	0	15
54250	KILLMORE RD	0.00	0.18	22	50	280	5	5	0	5	0	15
40761	LOOK RD	0.00	0.59	28	50	1233	10	0	0	5	0	15
95301	MANASTASH RD	3.35	3.56	24	50	831	5	0	10	0	0	15
56260	MELLERGAARD RD	0.00	0.47	18	50	301	5	0	10	0	0	15
62502	MOE RD	0.00	1.63	20	50	347	5	0	10	0	0	15
96200	NO. 6 RD	0.00	0.26	24	50	2122	5	0	10	0	0	15
96200	NO. 6 RD	3.58	5.10	20	50	692	5	0	5	5	0	15
94326	NO. 81 RD	0.53	1.00	24	35	1334	5	0	10	0	0	15
69760	PFENNING RD	0.97	1.08	20	35	1925	5	0	10	0	0	15
53010	RIVERBOTTOM RD	1.83	3.06	22	35	667	5	0	5	5	0	15
54510	ROBINSON CANYON RD	0.00	0.09	20	50	769	5	5	5	0	0	15
54510	ROBINSON CANYON RD	0.09	0.96	20	50	769	5	0	10	0	0	15
54510	ROBINSON CANYON RD	1.20	2.72	22	50	480	5	0	5	5	0	15
40315	SANDERS RD	1.03	1.13	20	35	1517	5	0	10	0	0	15

43163	SCHNEBLY RD	0.00	1.04	22	50	135	10	0	5	0	0	15
TABLE 5 continued Kittitas County's Prioritized Road Segments for Safety Improvements (see Table 4 for score descriptions)												
Road Number	Road Name	Beg. MP	End. MP	Total Pavement	Speed Limit	ADT	Item 1	Item 2	Item 3	Item 4	Item 5	total score
66912	SORENSEN RD	4.18	4.86	24	50	175	5	0	10	0	0	15
29260	SWAUK PRAIRIE RD	0.00	0.10	28	35	42	10	0	5	0	0	15
28500	TEANAWAY RD	0.11	0.73	24	50	428	5	5	5	0	0	15
95417	THORP HWY NORTH	5.54	5.65	28	50	1205	10	0	5	0	0	15
95417	THORP HWY SOUTH	0.43	1.55	24	50	1758	5	0	5	5	0	15
95417	THORP HWY SOUTH	4.72	5.16	24	50	680	5	5	5	0	0	15
62505	TOZER RD	0.80	1.02	24	50	217	5	0	5	5	0	15
54150	WEAVER RD	2.18	3.65	20	50	331	5	0	5	5	0	15
94126	WILSON CREEK RD	2.55	4.09	24	50	602	5	0	5	5	0	15
68910	BADGER POCKET RD	0.57	1.30	22	50	671	5	0	5	0	0	10
41271	BRICK MILL RD	0.00	0.09	24	50	70	10	0	0	0	0	10
41271	BRICK MILL RD	4.87	5.13	22	50	290	5	0	5	0	0	10
40600	BRICK RD	0.98	1.12	20	35	1517	5	0	5	0	0	10
95501	COVE RD	3.72	4.14	24	50	661	5	0	5	0	0	10
95501	COVE RD	4.19	4.42	20	50	238	5	0	5	0	0	10
51600	ELK HEIGHTS RD	0.00	0.20	24	50	800	5	0	0	5	0	10
62502	MOE RD	1.63	2.30	20	50	397	5	0	5	0	0	10
42380	MOREAU RD	0.00	0.53	16	50	22	10	0	0	0	0	10
42000	NANEUM RD	1.99	2.54	24	50	183	5	0	5	0	0	10
42000	NANEUM RD	4.11	4.86	20	50	202	5	0	5	0	0	10
42000	NANEUM RD	4.86	5.13	22	50	202	5	0	5	0	0	10
96200	NO. 6 RD	0.36	0.68	24	50	2122	5	0	5	0	0	10
96200	NO. 6 RD	0.86	1.02	24	50	1822	5	0	5	0	0	10
94326	NO. 81 RD	0.10	0.34	24	35	1517	5	0	5	0	0	10
94326	NO. 81 RD	0.34	0.53	24	35	1393	5	0	5	0	0	10
69760	PFENNING RD	1.53	1.97	20	35	776	5	0	5	0	0	10
93526	REECER CREEK RD	0.00	0.05	64	35	3055	10	0	0	0	0	10
35285	ROBBINS RD	2.07	2.82	22	50	250	5	0	5	0	0	10
54510	ROBINSON CANYON RD	0.96	1.20	20	50	769	5	0	5	0	0	10
66912	SORENSEN RD	2.03	2.55	22	50	313	5	0	5	0	0	10
66912	SORENSEN RD	2.55	4.10	22	50	218	5	0	5	0	0	10
66912	SORENSEN RD	4.10	4.18	22	50	248	5	0	5	0	0	10
13530	SPARKS RD	0.00	0.41	28	35	523	10	0	0	0	0	10
56160	STRANDE RD	0.78	1.47	20	35	568	5	0	5	0	0	10
95417	THORP HWY NORTH	6.63	6.79	24	35	600	5	0	5	0	0	10
95417	THORP HWY SOUTH	5.16	5.31	24	35	680	5	0	5	0	0	10
96751	THRALL RD	6.23	7.25	20	50	190	5	0	5	0	0	10

62505	TOZER RD	0.00	0.80	20	50	284	5	0	5	0	0	10
TABLE 5 continued Kittitas County's Prioritized Road Segments for Safety Improvements (see Table 4 for score descriptions)												
Road Number	Road Name	Beg. MP	End. MP	Total Pavement	Speed Limit	ADT	Item 1	Item 2	Item 3	Item 4	Item 5	total score
94126	WILSON CREEK RD	0.50	0.63	22	35	1454	5	0	5	0	0	10
94126	WILSON CREEK RD	0.63	1.01	24	35	1447	5	0	5	0	0	10
94126	WILSON CREEK RD	5.33	6.66	24	50	567	5	0	5	0	0	10
42271	ALFORD RD	0.15	1.07	22	50	567	5	0	0	0	0	5
95501	COVE RD	4.14	4.19	20	50	238	5	0	0	0	0	5
42000	NANEUM RD	1.00	1.52	22	50	447	5	0	0	0	0	5
42000	NANEUM RD	1.52	1.99	24	50	295	5	0	0	0	0	5
23520	NO. 5 MINE ROAD	0.08	0.14	18	50	428	5	0	0	0	0	5
96200	NO. 6 RD	0.26	0.36	24	50	2122	5	0	0	0	0	5
96200	NO. 6 RD	0.68	0.86	24	50	2057	5	0	0	0	0	5
94326	NO. 81 RD	1.00	2.54	24	50	742	5	0	0	0	0	5
53210	SUSAN RD	0.00	0.43	24	35	259	5	0	0	0	0	5
95417	THORP HWY SOUTH	1.55	1.66	24	50	1400	5	0	0	0	0	5
95417	THORP HWY SOUTH	1.66	1.74	24	50	1000	5	0	0	0	0	5
96751	THRALL RD	5.68	6.23	20	50	190	5	0	0	0	0	5
68750	TJOSSEM CONNECTION	0.00	0.09	20	50	797	5	0	0	0	0	5
65002	PRATER RD	0.00	1.42	22	50	153		0	0	0	0	0

Cost Effective Safety Improvements

Kittitas County proposes to improve the safety of the following road segments that received a score of 50 or higher.

- Huntzinger Road MP 0.24 to MP 6.99
- Westside Road MP 4.10 to MP 7.29
-
- Thorp Prairie Rd MP 0.00 to MP 3.51
- Casassa Road MP 0.00 to MP 1.12
- Denmark Road MP 3.08 to MP 4.35
- Horvatt Road MP 0.00 to MP 0.46
- Lyons Road MP 0.00 to MP 1.49
- MF Teanaway MP 0.00 to MP 1.19
- Reecer Creek Rd MP 4.80 to MP 6.68
- Teanaway Road MP 0.00 to MP 0.02
- Thomas Road MP 0.00 to MP 1.51

Moved down [2]: Casassa Road . MP 0.00 to MP 1.12¶

Moved (insertion) [2]

13. Via Kachess Rd MP 0.00 to MP 2.22

14. Watson Cutoff Rd MP 0.00 to MP 1.12

Low cost safety improvements for these locations will include removing roadside safety hazards, reducing steep side slopes if it isn't cost prohibitive, and either alerting or protecting drivers from running off the side of the road with guardrail, rumble strips, or traffic delineators – as deemed needed using engineering standards. Vicinity maps for these locations are on the following pages.

