#### **CLACKAMAS COUNTY TRAFFIC SAFETY COMMISSION MINUTES**

October 5, 2022

MISSION: To give the citizens of Clackamas County a forum to voice traffic safety concerns, evaluate related issues, provide a liaison with County agencies and promote traffic safety.

Present	Absent:
Chris Larsen	Nathan McCarty
Ronna Keeney	James Waddington
Bob Karl	Rafael Kaup
Laurie Hedwall (via zoom)	Andrew Labonte
William Farley	
Jeanette DeCastro (via zoom)	
Michael Wilson	
Staff Present	Guest
Christian Snuffin	Heidi Hughes-Welter
Joseph Marek	Lucien Welter

#### **COMMISION MEMBERS**

#### **APPROVAL OF LAST MEETING MINUTES**

The minutes from August 3<sup>rd</sup>, 2022 meeting were approved unanimously.

**COMMUNITY CONCERNS:** We had a guest Heidi Hughes-Welter and her son, Lucien whose other son, Seth Welford, was in a serious crash at S. Upper Highland and S. Ridge Road. He was traveling east, and a truck trailer was heading north and ran a stop sign. She was interested in what could be done at that intersection and what the history of crashes are in the intersection. Joseph said we can look at the intersection and look at the approach legs.

**PRESENTATION ON VISION ZERO SOFTWARE TOOL:** Joseph Marek, the county's traffic engineer and Transportation Safety Program Manager reviewed a new technical tool that the county is using to evaluate the safety of county roads. We obtained the software in March 2022.

Joseph went through an example of Beavercreek Road between Hwy 211 and Hwy 213 from 2014-2020. See attached slide deck. Essentially the software does a very quick analysis of the road segments and intersections and compares crashes to what we would expect from a typical road of this design to identify problem areas for improvement and can analyze potential improvements, as well.

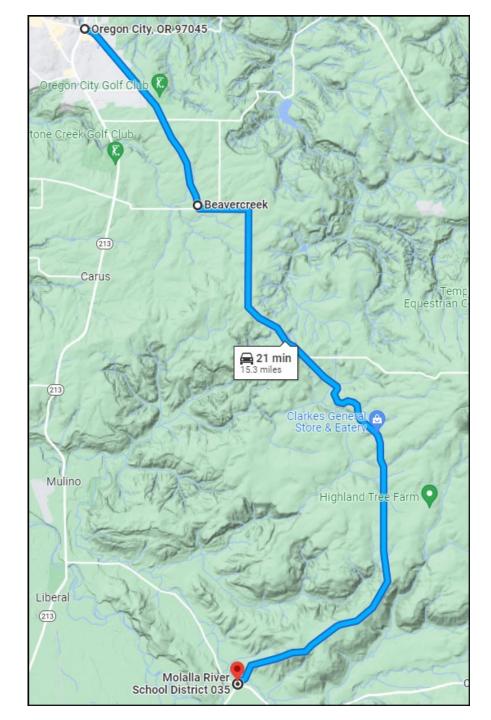
This was followed by a live analysis of Upper Highland and Ridge to show what the software was capable of with the committee. There was some discussion on how Property Damage Only (PDO) crashes are underreported based on Oregon being a self-reporting state. The data is based on ODOT information and is about two years old. For new roads, we will need to wait for the data to do an analysis.

Suggestion to ask the traffic sergeant to attend a future meeting to discuss traffic safety.

#### ADDITIONAL DISCUSSION ITEMS:

- a. **Monthly/YTD fatal crash update**: There were six fatalities since our last meeting, all on state highways. Through September 26, we are at 20 fatals total, which is lower. Motorcycle and ped are up. All of the ped fatals were on state highways or city roads.
- b. Driving Under the Influence Campaign: Christian shared the final draft of our campaign that will launch soon: <u>https://app.frame.io/reviews/0d386266-e9e9-4890-9e5b-602a90975f4d/98e6a847-7d24-4724-8c1f-4f964c3e06cb</u>
- c. **Radar Sign Update**: Currently at King/Bell. David will attend in February to discuss its results. Joseph shared that the County would like to get to a one-month rotation pattern.
- d. **Jeanette DeCastro:** Wondered how Safe Routes to School went for the beginning of school year and recommended a reading <u>Traffic by Tom Vanderbilt</u>. Joseph reported that we have heard no complaints regarding traffic and school safety. That is usually a good sign.
- e. **High Friction Treatment**: Christian passed around the sample of our high friction treatment surface.
- f. **Motorized wheelchair**: Michael asked where people can use them. Joseph shared a brochure. The Oregon ORS is here: <u>https://oregon.public.law/statutes/ors\_814.550</u>.
- g. **Naloxone**: Bob asked about getting involved in training. Chris suggested that it is not a part of our charter.
- h. Trivia Night at the next meeting on December 7, 2022.

Notes taken from recording by Rob Sadowsky.

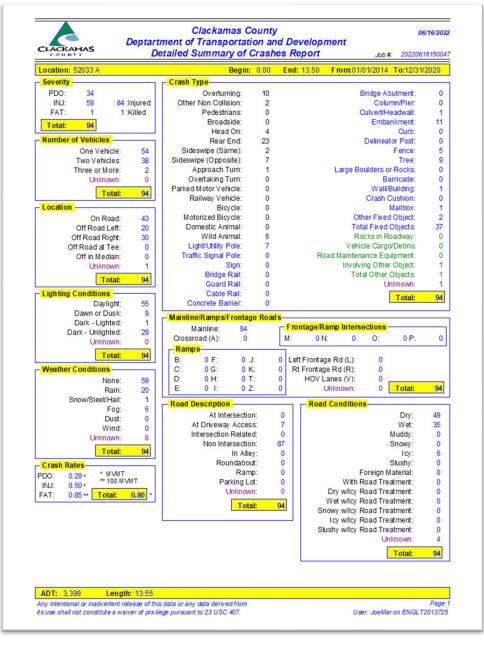




# Beavercreek Road CC# 52033

<u>Segment hot spot crashes</u> Hwy 211 (MP 0.0) → Hwy 213 (MP 15.33) 2014-2020

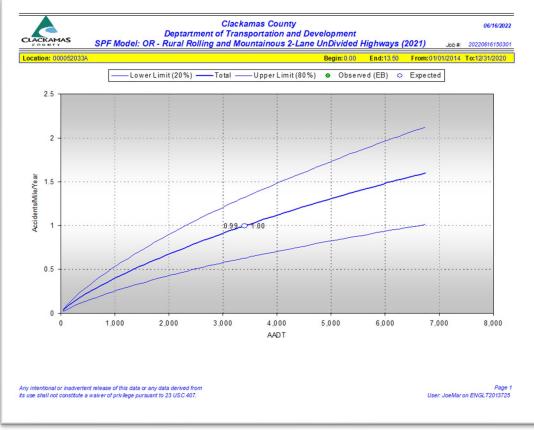
# SUMMARY DETAIL REPORT – ALL CRASHES



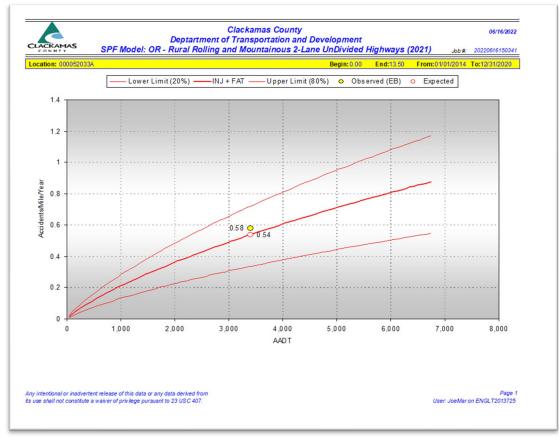
Passenger Car/Van wl Tri:   0   0   0     Pickup Truck/Utility Van:   0   0   0     Pickup Truck/Utility Van:   0   0   0     SUV:   0   0   0   0     SUV:   0   0   0   0   0     SUV:   0   0   0   0   0   0     Truck 10k lbs or Less:   1   0					on and Developn Crashes Report	len	Job	#: 2022	061615004
Passenger CarVan:   91   40   2     Passenger CarVan WTrt:   0   0   0     Pickup Truck/Utility Van WTrt:   0   0   0     SUV:   0   0   0     Truck 10: bits or Less:   1   0   0     School Bus <15 People:   0   0   0     Motorzycle:   1   0   0   0     Motorzycle:   0   0   0   0     Motorzycle:   0   0   0   0     Farm Equipment:   0   0   0   0     Other:   0   0   0   0     Unknown:   0   0   0   0     Other I wheel:   0   0   0   0     Distracted by Passenger:   0   0   0   0     Driver Insprint   94   0   2   0	ocation: 52033 A			Begin:	0.00 End: 13.50	F rom:(	01/01/2014	To:12/	31/2020
Passenger CarlVan wTrit:   0 </td <td>Vehicle Type</td> <td>Veh 1</td> <td>Veh 2</td> <td>Veh 3</td> <td>Vehicle Movement</td> <td></td> <td>Veh 1 —</td> <td>Veh 2</td> <td>Veh 3</td>	Vehicle Type	Veh 1	Veh 2	Veh 3	Vehicle Movement		Veh 1 —	Veh 2	Veh 3
Pickup Truck/Utility Van WTri:   0   0   0     Pickup Truck/Utility Van WTri:   0   0   0     SUV:   0   0   0     SUV:   0   0   0     SUV:   0   0   0     Truck 10k Ibs/Bus > 15 People:   0   0   0     No School Bus < 15 People:	Passenger Car/Van:	91	40	2	Going	Straight:	91	20	0
Pickup Truck/Utilky Van wTrt:   0 <t< td=""><td>Passenger Car/Van w/Trl:</td><td>-</td><td>0</td><td></td><td>5</td><td>Slowing:</td><td>0</td><td>0</td><td>0</td></t<>	Passenger Car/Van w/Trl:	-	0		5	Slowing:	0	0	0
SUV:     0     0     0       SUV wTrit:     0     0     Making Left Tum:     1     1     0       Truck 10k lbs/Bus > 15 People:     1     0     0     Backing:     1     0     0       School Bus < 15 People:									2
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Truck 10k lbs or Less:   1   0   0     Trucks > 10k lbs/Bus > 15 People:   1   0   0     School Bus < 15 People:									
Trucks > 10k lbs/Bus > 15 People:   1   0   0     School Bus < 15 People:									
School Bus < 15 People:									ő
Mdtorhome:   0									0
Motorcycle:     1     0     0     0     0       Bicycle:     0     0     0     0     0     0       Motorzed Bicycle:     0	Non School Bus < 15 People:	0	0	0	Starting in	Traffic:	0	0	0
Bicycle:     0     0     0       Motorized Bicycle:     0     0     0       Farm Equipment:     0     0     0       Hit and Run - Unknown:     0     0     0       Other:     0     0     0       Unknown:     0     0     0       Other:     0     0     0       Unknown:     0     0     0       Other:     0     0     0       Other:     0     0     0       Total:     94     40     2       Asleep at the Whee!:     0     0     0       Direction     Veh 1 - Veh 2 - Veh 3     Northeast:     0     0       Dirker Prescupied:     0     0     0     East:     19     9     1       Driver Inexperience:     0<									0
Motorized Bicycle:   0   0   0     Farm Equipment:   0   0   0     Hit and Run - Unknown:   0   0   0     Other:   0   0   0   0     Unknown:   0   0   0   0   0     Unknown:   0   0   0   0   0     Total:   94   40   2   0   0   0     Contributing Factor:   90   40   2   North:   30   12   1     No Apparent Contributing Factor:   90   40   2   North:   30   12   1     Distracted by Passenger:   0   0   0   East:   19   9   1     Diriver Inexperience:   0   0   0   Southreast:   2   1   0     Driver Preoccupied:   4   0   0   0   West:   15   1   0     Unknown:   0   0   0   0   0   0   0   0   0   0   0   0   0   0							-		0
Farm Equipment:   0							-	-	0
Hit and Run - Unknown:   0   0   0     Other:   0   0   0     Unknown:   0   0   0     Total:   94   40   2     Contributing Factor   Veh 1   Veh 2   Veh 3     No Apparent Contributing Factor:   90   40   2     Asleep at the Wheel:   0   0   0     Distracted by Passenger:   0   0   0     Driver Inexperience:   0   0   0     Driver Preoccupied:   4   0   0     Driver Preoccupied:   4   0   0     Driver Preoccupied:   4   0   0     Driver Preoccupied:   0   0   0     Driver Preoccupied:   0   0   0     Veh 1   Veh 2   Veh 3   0     Driver Preoccupied:   4   0   0     Unknown:   0   0   0     Unknown:   0   0   0     Total:   94   40   2     Condition of Driver   Veh 1   V									
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Total:     94     40     2       Contributing Factor:     Veh 1     Veh 2     Veh 3       No Apparent Contributing Factor:     90     40     2       Asleep at the Wheel:     0     0     0       Illness:     0     0     0     0       Distracted by Passenger:     0     0     0     East:     9     1       Driver Inexperience:     0     0     0     Southeast:     2     1     0       Driver Fatigue:     0     0     0     Southeast:     2     1     0       Driver Fratigue:     0     0     0     West:     15     1     0       Driver Frationally Upset:     0 <td< td=""><td>Unknown:</td><td>0</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Unknown:	0	-						
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No Apparent Contributing Factor:     90     40     2       Asleep at the Wheel:     0     0     0       Illness:     0     0     0       Distracted by Passenger:     0     0     0       Driver Inexperience:     0     0     0       Driver Inexperience:     0     0     0       Driver Fatigue:     0     0     0       Driver Preoccupied:     4     0     0       Driver Inexperience:     0     0     0       Driver Preoccupied:     4     0     0     0       Driver Inexperience:     0     0     0     0     0       Driver Inexperience:     0					Direction		Vob 1	Vob 2	Vab 2
Asleep at the Wheel:   0					Direction				
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Distracted by Passenger:   0   0   0     Driver Inexperience:   0   0   0     Driver Fatigue:   0   0   0     Driver Preoccupied:   4   0   0   0     Driver Unfamilar with Area:   0   0   0   0   0     Driver Emotionally Upset:   0   0   0   0   0   0     Driver Emotionally Upset:   0<		-						-	1
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Driver Unfamilar with Årea:   0					Sou				0
Driver Emotionally Upset:     0     0     0     Unknown:     2     0     0       Evading Law Enforcement Officier:     0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td>									0
Evading Law Enforcement Officier:   0		-							
Physical Disability:   0					Ur	Known:	2	0	0
Unknown:     0     0     0       Total:     94     40     2       Condition of Driver     Veh 1     Veh 2     Veh 3       No Impairment Suspected:     16     5     2       Alcohol Involved:     6     0     0       RX, Medication, or Drugs Involved:     0     0     0       Illegal Drugs Involved:     1     0     0       Alcohol and Drugs Involved:     0     0     0       Driver/Pedestrian not Observed:     0     0     0       Unknown:     71     35     0						Total:	94	40	2
Total: 94 40 2   Condition of Driver Veh 1 Veh 2 Veh 3   No Impairment Suspected: 16 5 2   Alcohol Involved: 6 0 0   RX, Medication, or Drugs Involved: 0 0   Illegal Drugs Involved: 1 0   Alcohol and Drugs Involved: 0 0   Driver/Pedestrian not Observed: 0 0   Unknown: 71 35 0									
No Impairment Suspected:   16   5   2     Alcohol Involved:   6   0   0     RX, Medication, or Drugs Involved:   0   0   0     Illegal Drugs Involved:   1   0   0     Alcohol and Drugs Involved:   0   0   0     Driver/Pedestrian not Observed:   0   0   0     Unknown:   71   35   0	Total:	94	40	2					
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RX, Medication, or Drugs Involved:     0     0     0       Illegal Drugs Involved:     1     0     0       Alcohol and Drugs Involved:     0     0     0       Driver/Pedestrian not Observed:     0     0     0       Unknown:     71     35     0									
Illegal Drugs Involved: 1 0 0 Alcohol and Drugs Involved: 0 0 0 Driver/Pedestrian not Observed: 0 0 0 Unknown: 71 35 0	Alcohol Involved:								
Alcohol and Drugs Involved: 0 0 0 Driver/Pedestrian not Observed: 0 0 0 Unknown: 71 35 0									
Driver/Pedestrian not Observed: 0 0 0 Unknown: 71 35 0									
Unknown: 71 35 0									
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	Total:	94	40	2					
	Total:	94	40	2					

#### SAFETY PERFORMANCE FUNCTION MODELS

#### **ALL CRASHES**



TOTAL



**SEVERITY** 

# **DIRECT DIAGNOSTICS SUMMARY REPORT**

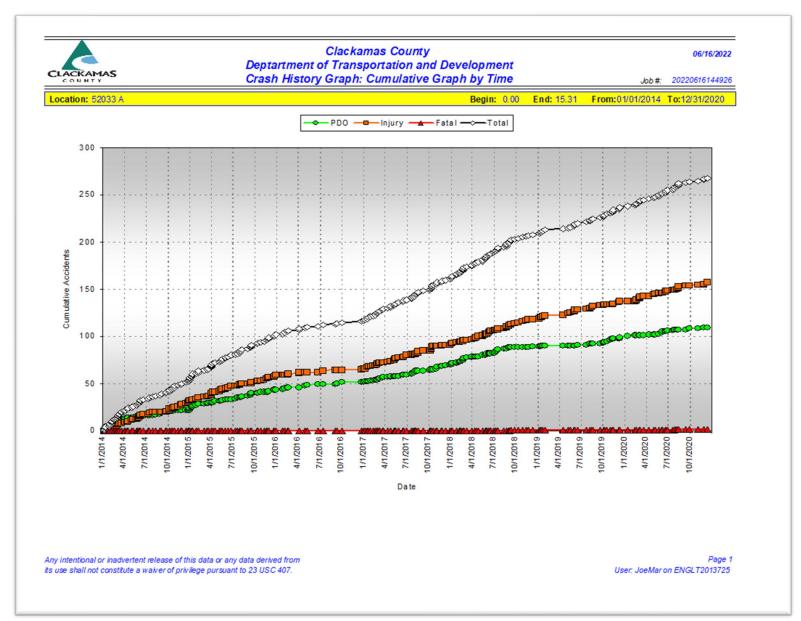
Deptartment of Trai	kamas Ci nsportati		)evelopment		10/04/2022
Direct Diagnostic	s (Spot l	Location	) Analysis	Job#:	20221004111826
.ocation File: DIRECT_DIAGNOSTICS_FOR_RTE5203	3A_00000_	01531	Cu	toff:	5 Acc's @ 95%
aseline Statistics	Statewide	Average	This Lo	ocation	Probability
CATEGORY	# Crashe	<u>s %</u>	# Crashe	s %	%
Property Damage Only (PDO)	15,855	46.66%	109	40.67%	8.72%
Injury (INJ)	17,221	50.68%	157	58.58%	98.63% 💌
Fatal (FAT)	904	2.66%	2	0.75%	16.73%
Persons Injured	25,948		234		
Persons Killed	1,042		2		
Single Vehicle Accidents	24, 166	71.12%	68	25.37%	0.00%
Two Vehicle Accidents	8,733	25.70%	180	67.16%	100.00%
Three or More Vehicle Accidents	1,081	3.18%	20	7.46%	99.88% 💌
Unknown Number of Vehicles	0	0.00%	0	0.00%	N/A
On Road	14,582	42.91%	156	58.21%	100.00%
Off Road	18,090	53.24%	61	22.76%	0.00%
Off Road Left	11,373	33.47%	27	10.07%	0.00%
Off Road Right	6,707	19.74%	34	12.69%	1.34%
Off Road at Tee Off Road in Median	0 10	0.00%	0	0.00%	N/A N/A
Unknown Road Location	1,308	3.85%	51	0.00% 19.03%	100.00%
Overturning	6,073	17.87%	11	4.10%	0.00%
Other Non Callision	756	2.22%	4	4.10%	47.53%
Vehicle Cargo or Debris	/50	0.00%	4	0.00%	47.33% N/A
Pedestrian	134	0.39%	0	0.00%	N/A
Broadside	54	0.35%	30	11.19%	100.00%
Head On	1.248	3.67%	4	1.49%	12.60%
Rear End	4,367	12.85%	95	35.45%	100.00%
Sideswipe (Same Direction)	961	2.83%	12	4,48%	94.64%
Sideswipe (Opposite Direction)	1.813	5.34%	8	2.99%	19.30%
Approach Turn	66	0.19%	40	14,93%	100.00%
Overtaking Turn	400	1.18%	1	0.37%	40.41%
Parked Motor Vehicle	158	0.46%	Ó	0.00%	N/A
Railway Vehicle	0	0.00%	0	0.00%	NJA
Bicycle or Pedal Cycle	8	0.02%	1	0.37%	99.92%
Motorized Bicyde	0	0.00%	0	0.00%	N/A
Domestic Animal	749	2.20%	ō	0.00%	N/A
Wild Animal	4,059	11.95%	6	2.24%	0.00%
Light or Utility Pole	560	1.65%	11	4.10%	99.24%
Bridge Rail	175	0.52%	0	0.00%	NIA
Guard Rall	1,318	3.88%	0	0.00%	N/A
Cable Rall	4	0.01%	0	0.00%	N/A
Concrete Barrier	64	0.19%	0	0.00%	N/A
Bridge Abutment	22	0.06%	0	0.00%	N/A
Culvert or Headwall	66	0.19%	1	0.37%	95.63%
Delineator Post	248	0.73%	0	0.00%	NIA
Large Boulders or Rocks	226	0.67%	0	0.00%	N/A
Rocks in Roadway	36	0.11%	0	0.00%	N/A
Barricade	4	0.01%	0	0.00%	N/A
Wall or Building	232	0.68%	1	0.37%	67.67%
Mailbox	140	0.41%	1	0.37%	84.43%
Other Fixed Object	1,956	5.76%	5	1.87%	3.00%
Road Maintenance Equipment	2	0.01%	0	0.00%	N/A
Unknown Accident Type	72	0.21%	7	2.61%	100.00% 🔣
Total Fixed Objects	12,680	37.32%	48	17.91%	0.00%
hway Class: OR - Rural Rolling and Mountainous 2-La				(000.0)	

	camas Co	-			10/04/202
ACKAMAS Direct Diagnostic				Job#	2022100411182
ocation File: DIRECT_DIAGNOSTICS_FOR_RTE5203	3A_00000_0	01531	Cu	toff:	5 Acc's @ 95%
aseline Statistics	Statewide	Average	This Lo	cation -	Prob ability
CATEGORY	#Crashe		# Crashe		%
Total Other Objects	382	1.12%	1	0.37%	42.91%
Daylight	19,758	58.15%	174	64.93%	97.63% 🛃
Dawn or Dusk	3, 147	9.26%	26	9.70%	68.88%
Dark - Lighted	565	1.63%	29	10.82%	100.00%
Dark - Unlighted	10,490	30.87%	39	14.55%	0.00%
Unknown Lighting	30	0.09%	0	0.00%	N/A
No Adverse Weather	25, 182	74.11%	187	69.78%	12.88%
Rain	4,442	13.07%	50	18.66%	98.73%
Snow or Sleet or Hail	2,553	7.51%	4	1.49%	0.09%
Fog	1, 127	3.32%	9	3.36%	66.52%
Dust	20	0.06%	0	0.00%	N/A
Wind	0	0.00%	0	0.00%	N/A
Unknown Weather Dry Road	656 20.162	1.93% 59.33%	18 176	6.72% 65.67%	100.00% 96.63%
Wet Road	7.051	20.75%	76	28.36%	99.53%
Muddy Road	7,001	0.00%	0	0.00%	99.55% -
Snowy Road	1,450	4.27%	2	0.75%	2.24%
Icy Road	4,821	14.19%	9	3.36%	0.00%
Slushy Road	4,021	0.00%	0	0.00%	0.00%
Foreign Material Road	ő	0.00%	ő	0.00%	N/A
With Road Treatment	ő	0.00%	ő	0.00%	NA
Dry with Icy Road Treatment	ő	0.00%	0	0.00%	NA
Wet with Icy Road Treatment	ŏ	0.00%	ő	0.00%	NIA
Snowy with Icy Road Treatment	ő	0.00%	ŏ	0.00%	N/A
Icy with Icy Road Treatment	ő	0.00%	ő	0.00%	N/A
Slushy with Icy Road Treatment	ő	0.00%	ŏ	0.00%	N/A
Unknown Road Condition	496	1.46%	5	1.87%	89.51%
Driver 1 - No Apparent Contributing Factor	29,139	85.75%	251	93.66%	99.98%
Driver 1 - Asleep at the Wheel	2,365	6.93%	2	0.75%	0.05%
Driver 1 - Illness	460	1.35%	3	1.12%	59.51%
Driver 1 - Distracted by Passenger	4	0.01%	0	0.00%	N/A
Driver 1 - Driver Inexperience	0	0.00%	0	0.00%	N/A
Driver 1 - Driver Fatigue	0	0.00%	0	0.00%	N/A
Driver 1 - Driver Preoccupied	1,839	5.41%	12	4.48%	42.52%
Driver 1 - Driver Unfamiliar with Area	0	0.00%	0	0.00%	NJA
Driver 1 - Driver Emotionally Upset	0	0.00%	0	0.00%	N/A
Driver 1 - Evading Law Enforcement Officer	0	0.00%	0	0.00%	N/A
Driver 1 - Physical Disability	0	0.00%	0	0.00%	N/A
Driver 1 - Unknown Contributing Factor	183	0.54%	0	0.00%	N/A
Driver 1 - No Impairment Suspected	7,323	21.55%	40	14.93%	2.59%
Driver 1 - Alcohol Involved	1,850	5.44%	13	4.85%	55.29%
Driver 1 - RX, Medication, or Drugs Involved	0	0.00%	0	0.00%	N/A
Driver 1 - Illegal Drugs Involved	536	1.58%	1	0.37%	24.96%
Driver 1 - Alcohol and Drugs Involved	233	0.69%	1	0.37%	67.49%
Driver 1 - Driver/Pedestrian not Observed	0	0.00%	0	0.00%	N/A
Driver 1 - Unknown Condition of Driver/Pedestrian	24,038	70.74%	213	79.48%	99.77% 属
Total Accidents	33,980		268		
Total Number of Records	2577		0		N/A

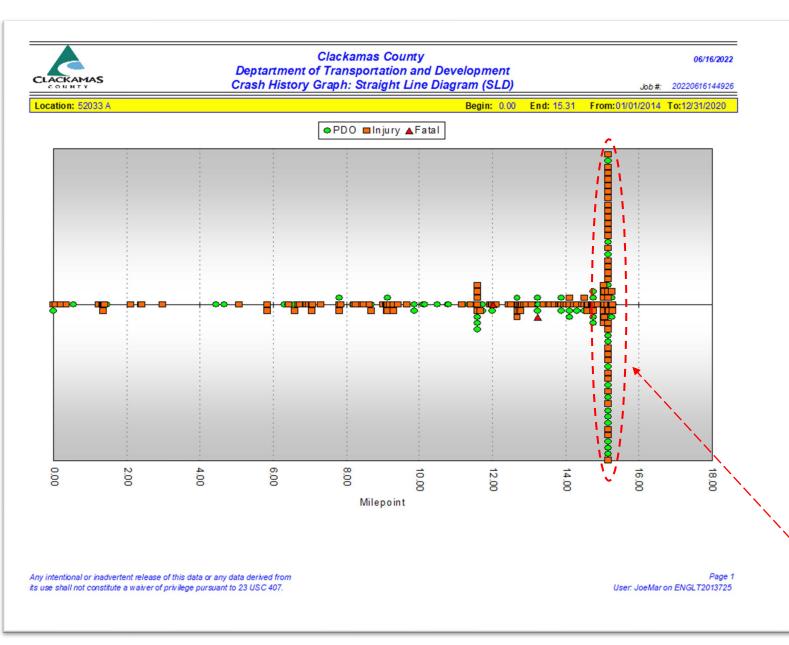
Highway Class: OR - Rural Rolling and Mountainous 2-Lane Undivided Highways - AADT All Totals (2021)

#### **STRAIGHTLINE DIAGRAMS**

#### **ALL CRASHES**

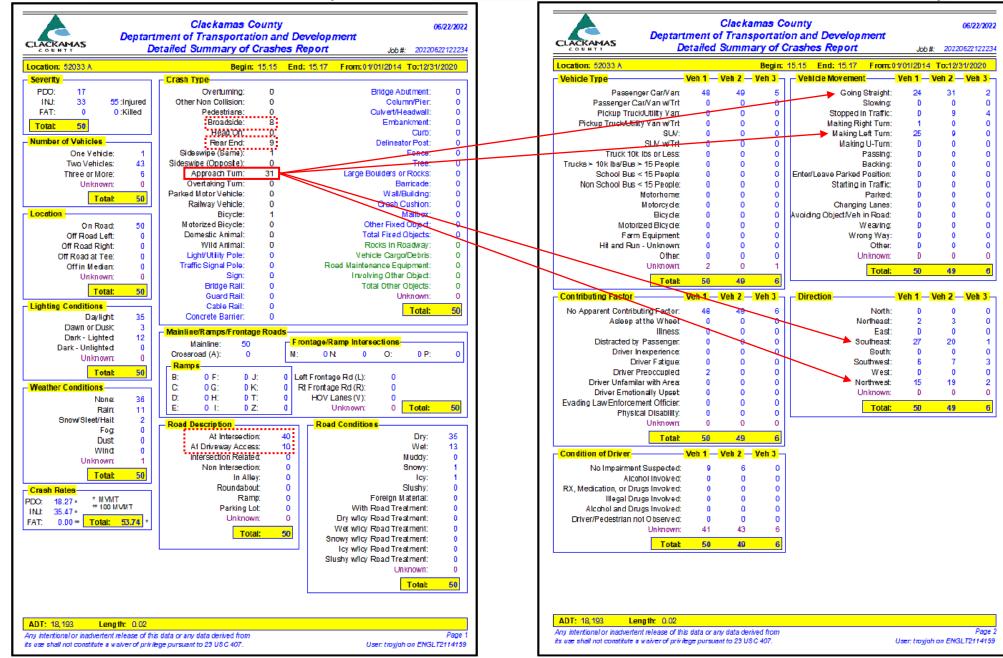


## <u>STRAIGHTLINE DIAGRAMS</u> <u>All crashes – no filters applied</u>

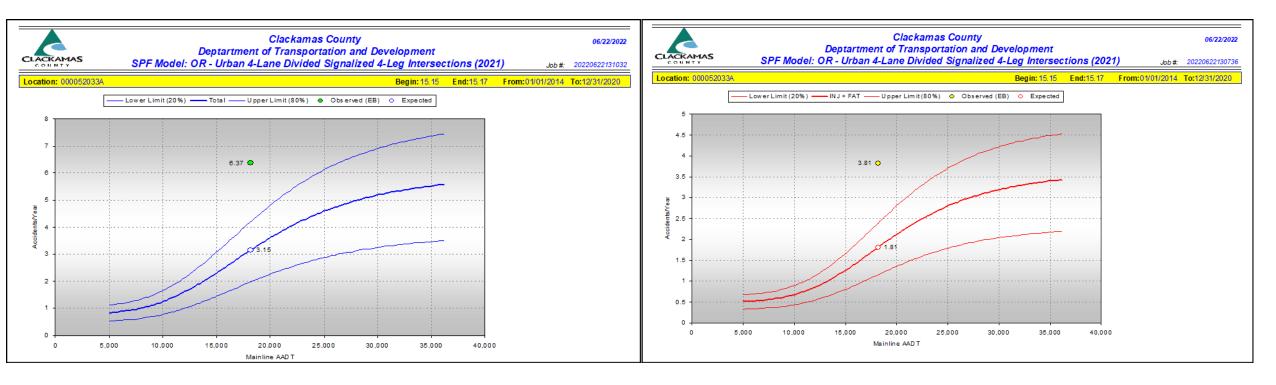


	0	0011210
No. 52	033	S BEAVERCREEK RD
	MAP 144-3	35L-SE
0.000	LEFT	UNION MILLS RD (42026)
0.000	RIGHT	OSH 211
0.010	)	BCM
0.160	BRIDGE	#6198 - MEADOWBROOK
0.270	RIGHT	PVT HALLBACKA LN
0.330	LEFT	SALO RD (42016)
0.430	LEFT	ACCESS RD TO SALO RD
1.410	RIGHT	PVT VALLEY VISTA
2.310	RIGHT	NORRY CT (P3170)
3.240	RIGHT	PVT ROCKIE DR S
3.320	LEFT	PVT LOST CANYON RD
3.370	RIGHT	PVT ROCKIE DR S
4.560	LEFT	WINDY CITY RD (43027)
4.560	RIGHT	UNGER RD (43026)
5.580	RIGHT	CEDAR CREEK LN (P3168)
5.850	RIGHT	BUTTE RD (43003)
6.210	LEFT	GARD RD (43008)
6.320		#TBD2 - BEAVERCREEK ROAD
7.340		PVT RED HEREFORD LN
7.410	LEFT	PVT KELLEY CRK LN
7.820	RIGHT	UPPER HIGHLAND RD (44025)
8.240	LEFT	LARKIN RD (42008)
8.700	RIGHT	LOWER HIGHLAND RD (32049)
9.150	LEFT	SPANGLER RD (42028)
9.790	CROSS	CARUS RD (42044)
10.160	LEFT	PVT WHITNEY LN
10.760	RIGHT	YEOMAN RD (32024)
10.770	RIGHT	STEINER RD (32052)
11.070		ESSIG LN
11.270	CROSS	FERGUSON RD (32115)
11.620	LEFT	KAMRATH RD (32021)
11.621	LEFT	LELAND RD (32020)
12.020	RIGHT	IVEL RD (32108)
12.490	LEFT	LAMMER RD (32039)
MP	Placement	Description
12.500	) RIGHT	CAMELLIA CT (P9281)
12.680		WILSON RD (32038)
12.780		TIOGA RD (P2132)
13.250		HENRICI RD (32009)
13.340		PVT RD
13.520		PVT OLD ACRES LANE
13.530		TIMBERSKY WAY (32096)
13.880		CT GLEN OAK RD S
13.000		CT GLEN OAK RD S CT MYERS RD
14.130		ACCESS TO AND FROM OREGON
14.320	LEP'I	CITY HIGH SCHOOL
14.490	) RIGHT	LODER RD (32005)
14.760		ENTRANCE TO CCC
15.040		CT MARJORIE RD
15.080		ENT TO BERRYHILL
15.160		MAIN ENT. TO BERRYHILL
	) RIGHT	MAPLELANE RD (32001)
15.160		ECM
15.320		OSH 213
15.520	, CK033	0311213

#### Beavercreek @ Maplelane (MP 15.16) - Intersection Crash Summary



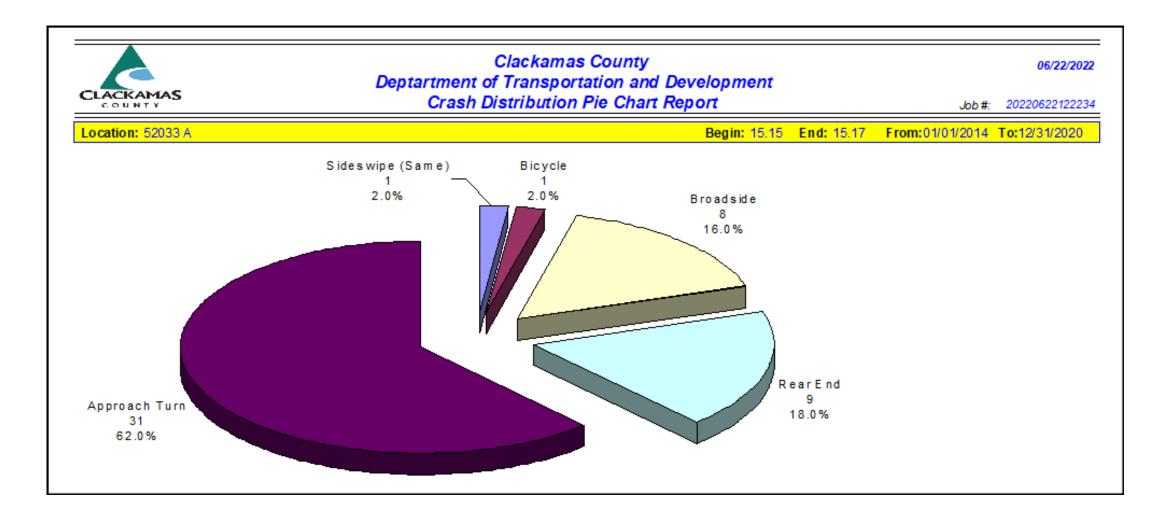
#### BEAVERCREEK @ MAPLELANE SAFETY PERFORMANCE FUNCTION MODELS



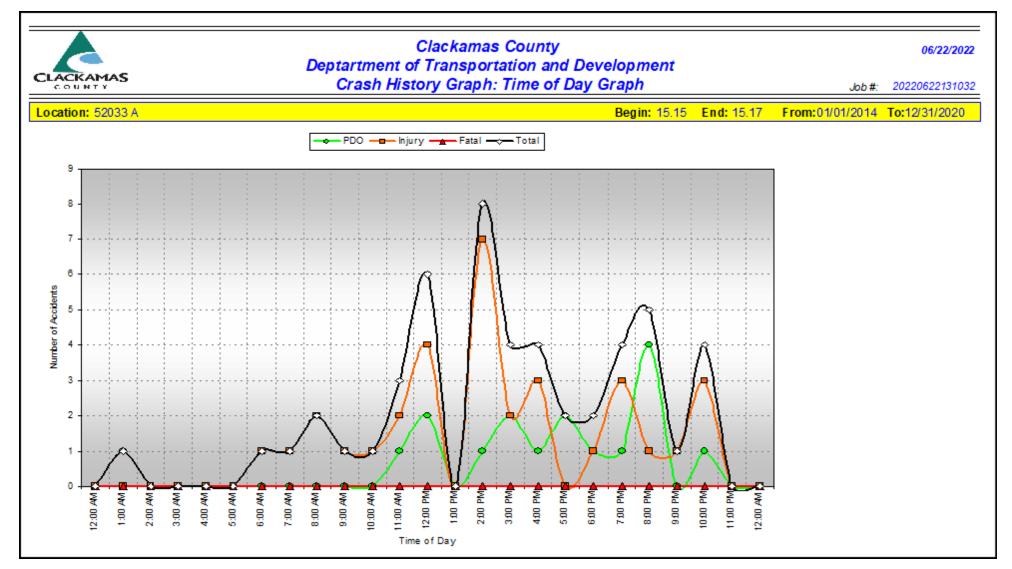
TOTAL

**SEVERITY** 

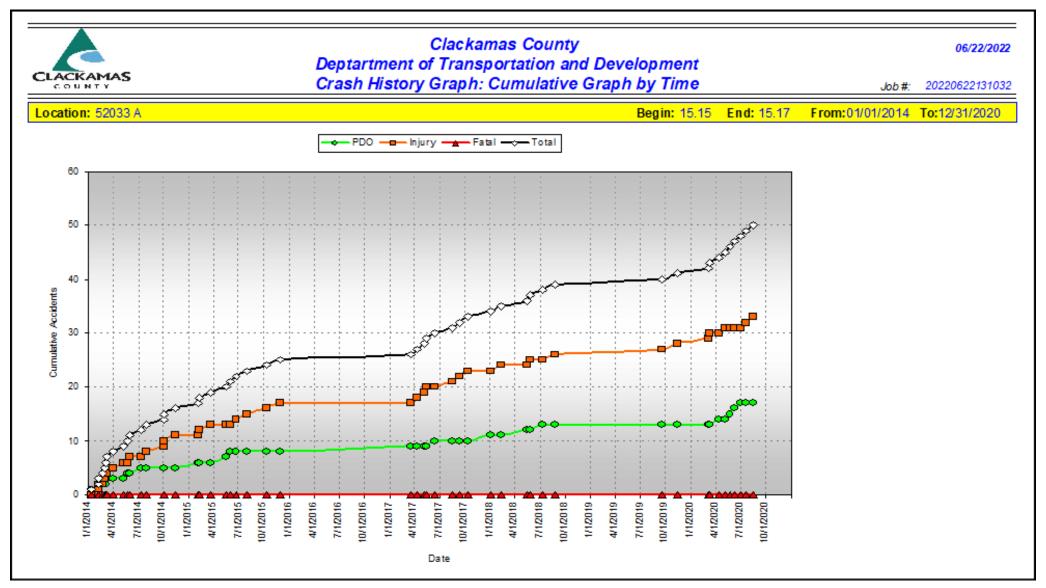
#### **BEAVERCREEK @ MAPLELANE**



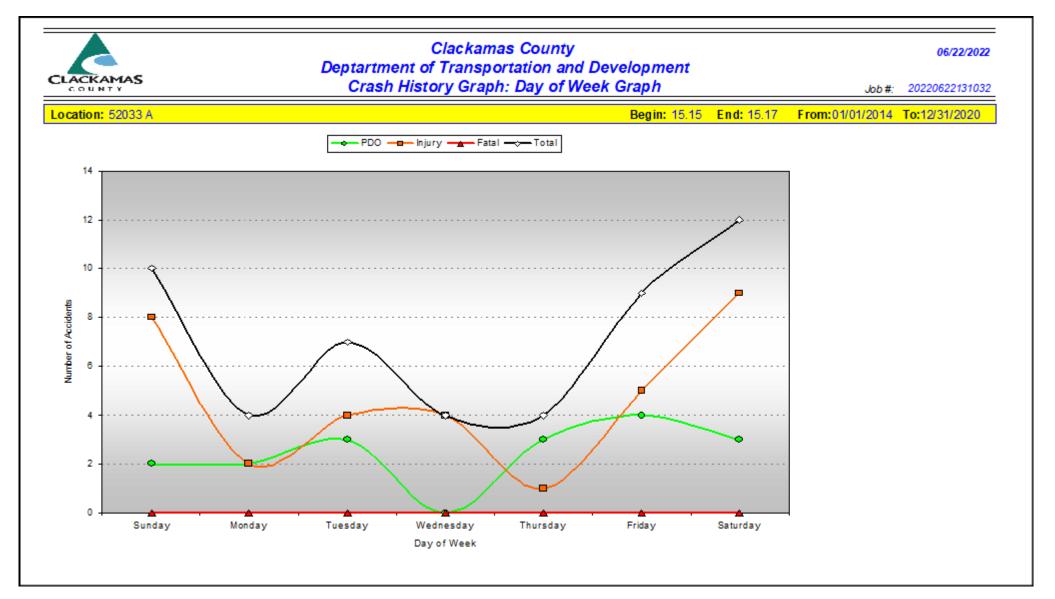
#### BEAVERCREEK @ MAPLELANE TIME OF DAY



## BEAVERCREEK @ MAPLELANE CUMULATIVE BY TIME



#### BEAVERCREEK @ MAPLELANE DAY OF WEEK



#### CRASH PATTERNS / POSSIBLE ISSUES & TREATMENTS

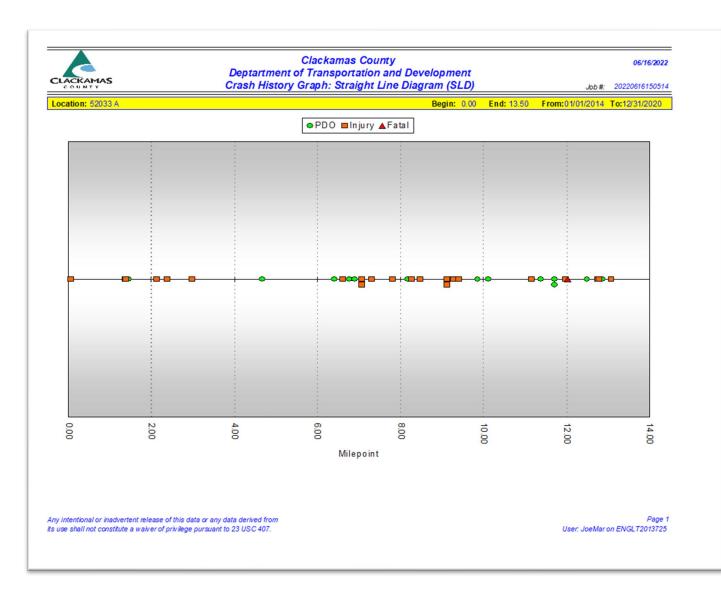
- Beavercreek / Maplelane (Broadside, Approach Turn crashes crash patterns heavy with opposing SEB left to Maplelane and NWB left to shopping center.
  - Flashing yellow arrow has been turned off permanently.
    - Intersection is skewed slightly this can limit the sight distance if cars are queued in the left turn pockets on Beavercreek.

## **POTENTIAL PROJECTS BENEFIT/COST**

1. Replace signal with roundabout at Beavercreek / Maplelane

			Econom	ic Anal	ysis Re	port	Joba	<b>#</b> : 202	20622131
Location:	52033 A			Begi	n: 15.15	End: 15.17	F rom: 01/01/2014	To:12	/31/2020
<u>Benefit</u>	Cost Rati	o Calculations	•						
	<u>Crashes</u>		Projected Cras	hes and l	Reduction	Factors	Other	Informa	ation
PDO:	17		Weighted PDO:	2.98	19%:CF	RF for PDO	Cost of PDO:	\$	11,100
INJ:	33	55:Injured	Weighted INJ:	9.65	71%:CF	RF for INJ	Cost of INJ:	\$	101,800
FAT:	0	0:Killed	Weighted FAT:	0.00	71%:CF	RF for FAT	Cost of FAT:	\$1	,820,600
		B/C Weig	hted Year Factor:	7.00	53%:W	eighted CRF	Interest Rate:	5%	
						AA	DT Growth Factor:	2.0%	
	Cos	t:\$ 6,000,000					Service Life:	20	
		n: 01/01/2014				Capita	Recovery Factor:	0.080	
	Т	o: 12/31/2020	Days:	2557		Annual Mainte	nance/Delay Cost:		\$ (
Benefit	Cost Ratio	<b>): 1.46</b>	(B/C Based on In	jury Numb	ers : PDO	/Injured/Killed)			

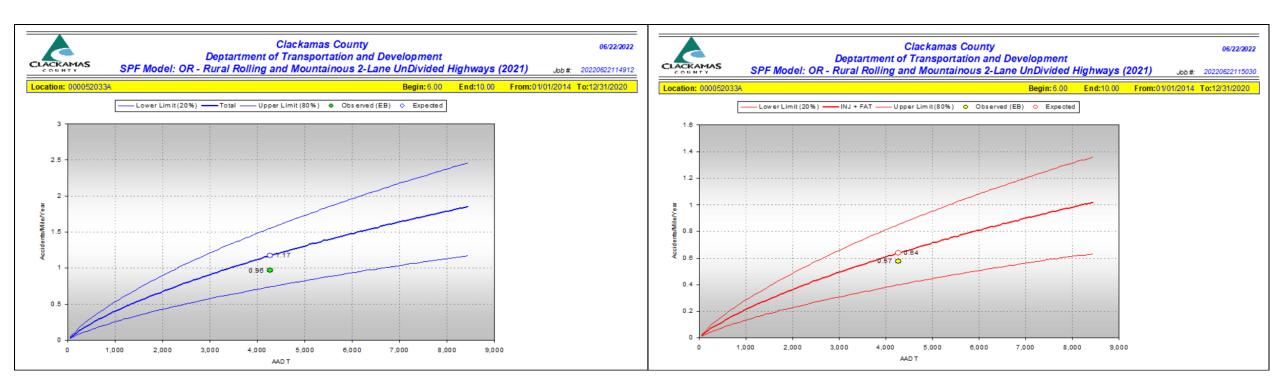
# Fixed object crashes - ALL



0.110	0.1000	0011210
No. 520	33	S BEAVERCREEK RD
	MAP 144-35	
0.000	LEFT	UNION MILLS RD (42026)
0.000	RIGHT	OSH 211
0.010		BCM
0.160	BRIDGE	#6198 - MEADOWBROOK
0.270 0.330	RIGHT	PVT HALLBACKA LN
	LEFT LEFT	SALO RD (42016) ACCESS RD TO SALO RD
1.410	RIGHT	PVT VALLEY VISTA
	RIGHT	NORRY CT (P3170)
3.240	RIGHT	PVT ROCKIE DR S
	LEFT	PVT LOST CANYON RD
3.370	RIGHT	PVT ROCKIE DR S
4.560	LEFT	WINDY CITY RD (43027)
4.560	RIGHT	UNGER RD (43026)
5.580	RIGHT	CEDAR CREEK LN (P3168)
5.850	RIGHT	BUTTE RD (43003)
	LEFT	GARD RD (43008)
6.320	BRIDGE	#TBD2 - BEAVERCREEK ROAD
	LEFT	PVT RED HEREFORD LN
7.410	LEFT	PVT KELLEY CRK LN
7.820	RIGHT	UPPER HIGHLAND RD (44025)
8.240	LEFT RIGHT	LARKIN RD (42008) LOWER HIGHLAND RD (32049)
9.150	LEFT	SPANGLER RD (42028)
9.790	CROSS	CARUS RD (42020)
10.160	LEFT	PVT WHITNEY LN
	RIGHT	YEOMAN RD (32024)
10.770	RIGHT	STEINER RD (32052)
11.070	LEFT	ESSIG LN
11.270	CROSS	FERGUSON RD (32115)
11.620	LEFT	KAMRATH RD (32021)
11.621	LEFT	LELAND RD (32020)
12.020	RIGHT	IVEL RD (32108)
12.490	LEFT	LAMMER RD (32039)
MP	Placement	Description
12.500	RIGHT	CAMELLIA CT (P9281)
12.680	RIGHT	WILSON RD (32038)
12.780	LEFT	TIOGA RD (P2132)
13.250 13.340	CROSS RIGHT	HENRICI RD (32009) PVT RD
13.540	RIGHT	PVT OLD ACRES LANE
13.520	LEFT	TIMBERSKY WAY (32096)
13.880	LEFT	CT GLEN OAK RD S
14.130	LEFT	CT MYERS RD
14.320	LEFT	ACCESS TO AND FROM OREGON
14.020		CITY HIGH SCHOOL
14.490	RIGHT	LODER RD (32005)
14.760	LEFT	ENTRANCE TO CCC
15.040	LEFT	CT MARJORIE RD
15.080	LEFT	ENT TO BERRYHILL
15.160	LEFT	MAIN ENT. TO BERRYHILL
15.160	RIGHT	MAPLELANE RD (32001)
15.310		ECM
15.320	CROSS	OSH 213

# Fixed object crashes - segment hot spot

Butte Rd to Carus Rd(MP 6-10)



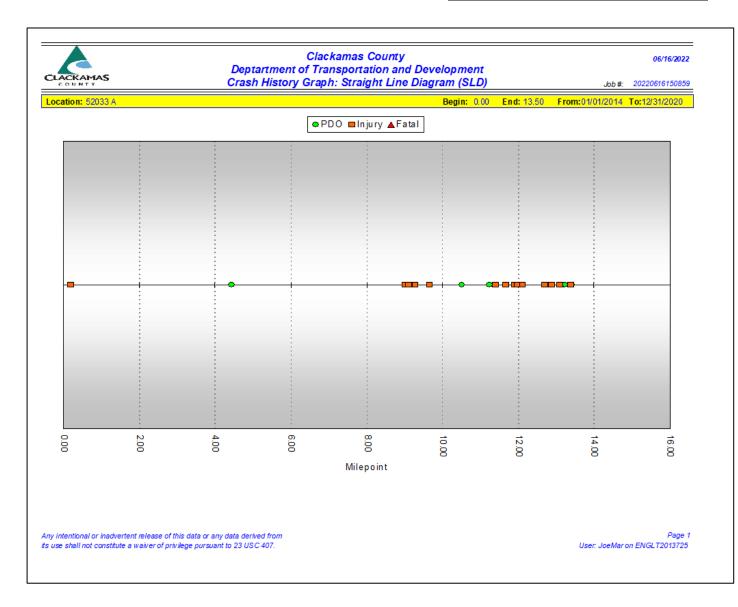
# Fixed object crashes - segment hot spot

Butte Rd to Carus Rd(MP 6-10)

Severity     Crash Type       PDC:     9       INU:     14     10 injured       FAT:     0     0:killed       Tota:     23       Number of Vehicles:     21       One Vehicle:     21       Two Vehicles:     21       Three or More:     0       Unknown:     0       Icoation     Teal       Off Road Laft:     10       Off Road Iaft:     11       Off Road Iaft:     11       Off Road Iaft:     11       Off Road Iaft:     11       Off Road Right:     11       Off Road Iaft:     11       Off Road Iaft:     11       Off Road Iaft:     11       Dark - Uighted     0       Mainiser Conditions     0       Dark - Uighted     0       Mainiser Conditions     0       Ibroking Conditions <th>Location: 52033 A</th> <th>Begin: đ</th> <th>00 End</th> <th>: 10.00 From: 01/01/2014 To:12/31</th> <th>1/202</th>	Location: 52033 A	Begin: đ	00 End	: 10.00 From: 01/01/2014 To:12/31	1/202
PDD:     9     Overfurning:     0     Bridge Abutment:       INL:     14     10 injured     0     ColumnPier:     0       FAT:     0     0:Killed     0     ColumnPier:     0     0     ColumnPier:     0     ColumnPier:     Colum     ColumnPier:     Co			.vo Ena		1 202
INL:     14     10:jured       FAT:     0     0.Killed       FAT:     0     0.Killed       Totat:     23       Number of Vehicles:     0     Caluent/Fier:       One Vehicles:     21       Twee or More:     0     Delineator Post:       One Vehicles:     22       Three or More:     0     Delineator Post:       Unknown:     0     Zarge Boulders or Rocks:       On Vehicle:     21     Approach Tum:     0     Large Boulders or Rocks:       Icocation     On Road:     20     Overlaking Tum:     0     Large Boulders or Rocks:       Off Road Left:     10     Off Road Left:     10     Maibox:       Off Road Left:     10     Montree Birgle:     0     Cash Cash Cash Cash Cash Cash Cash Cash			0	Bridge Abutment:	
Totat     23       Number of Vehicles     Productions       Two Vehicles     21       Three or More:     0       Unknown:     0       Totat     23       Icocation     Sideswipe (Came):       Off Road Left:     10       Off Road Left:     10       Off Road Left:     11       Off Road Left:     12       Off Road Left:     12       Dark - Lighted     12       Dark - Lighted     12       Dark - Lighted     12       None     15       Snow Steet/Hait     0					
Lotat     ZS     Head On:     O     Curb:       Number of Vahicles:     21     Three of More:     0     Delineator Post:     Fence:       One Veride::     21     Three of More:     0     Sideswipe (Same):     0     Tree:       Three of More:     0     Ideswipe (Same):     0     Large Boulders of Rocks:     0       Unknown:     0     Totat     23     Sideswipe (Same):     0     Large Boulders of Rocks:       Orn Road:     2     Grand Left:     0     Wallbuilding:     Namber:       Off Road Left:     0     Other Side Object:     0     Mainbac:       Off Road Left:     0     Ident File dObject:     0     Mainbac:       Off Road Left:     0     Ident File dObject:     0     Rody Barrier:     0       Off Road Left:     0     Ident File dObject:     0     Rody Barrier:     0     Rody Barrier:     0       Off Road Left:     0     Ident File Arman:     0     Ident File Arman:     0     Ident File Arman:       Dark:     23	FAT: 0 0:Killed	Pedestrians:	0	Culvert/Headwall:	
Humber of Vehicles     Head On:     0     Curo:       Number of Vehicles:     21     Three or More:     0     Delineator Post:       Three or More:     0     Tete:     Sideswipe (Opposte):     0     Tete:       Three or More:     0     Quinknown:     0     Tete:     Tete:       Junknown:     0     Totat     23     Approach Tum::     0     Large Boulders or Rocks:       Junknown:     0     Totat     23     Approach Vehicle:     0     Wallbuilding:       Junknown:     0     Totat     23     Natorized Bicycle:     0     Other Fixed Object:       Off Road Left:     10     Off Road Left:     0     Other Fixed Object:     0       Off Road Left:     0     Other Fixed Object:     0     Rod Maintence Cargo/Detris:       Off Road Left:     0     Unknown:     0     Totat:     0       Off Road Left:     0     Unknown:     0     Totat:     0       Dark - Unightwidt     10     Grant     23     Frontage/Ramp Intersections:	Total: 25		0	Embankment:	
One Vehicle:   21     Two Vehicles:   2     Three or More:   0     One Vehicles:   2     Three or More:   0     Totat:   23     Location   Totat:     On Road:   2     Off Road Left:   10     Unknown:   0     Totat:   23     Vehicle:   10     Darkisht:   0     Darkisht:   0     Darkisht:   0     Dark:   10     Darkisht: </td <td></td> <td></td> <td>-</td> <td></td> <td></td>			-		
Two Vehicles:     2     Tree       Three or More:     0     Approach Turn:     0     Large Boulders or Rocks:       Unknown:     0     Totat     22       Location     Totat     22       On Road:     2     Or Road Left:     0       On Road:     10     Other Fixed Object:     0       Off Road Left:     10     Other Fixed Object:     0       Off Road Left:     10     Other Exed Object:     0       Off Road Left:     10     Wild Animal:     0     Total: Evel Object:       Off Road Left:     10     Unknown:     0     Total:     0       Off Road Left:     10     Wild Animal:     0     Road Mainteence Equipment:       Unknown:     0     Total:     23     Concrete Barrier:     0     Total:       Dark - Unknown:     0     Corestroad (A):     0     Maintinence Cargor Depict:     0       Dark - Unknown:     0     Corestroad (A):     0     Involving Other Object:     0       Concrete Barrier:     0     <					
Three or More:   0   Approach Tum::   0   Large Boulders or Rocks:     Unknown:   0   Totat   23     Location   0   Railway Vehicle:   0   Crash Cushton:     Bicycle:   0   Crash Cushton:   Bicycle:   0   Crash Cushton:     Bicycle:   0   Crash Cushton:   Bicycle:   0   Crash Cushton:     Off Road Laft:   10   Motorized Bicycle:   0   Crash Roadway:   Usit of Usit     Off Road Laft:   10   Totat:   23   Vehick Cargo/Debris:   Guard Rail:   0   Road Waintenance Equipment:     Off Road Laft:   0   Totat:   0   Totat   Crash Roadway:     Unknown:   0   Totat:   0   Totat   Crash Roadway:     Unknown:   0   Totat:   0   Totat:   0     Dark - Unighted   0   Totat:   0   Totat:   0     Dark - Unighted   0   0   0   0   0   0     Mainline:   23   Forntage/Ramp Intersections   Forontage/Ramp Intersections   0   0			-		
Unknown:     0     Darkadde       Iccation     Iccation     Parked Motor Vehicle:     0     Wall/Building:       Iccation     Iccation     Bicycle:     0     Crash Cushion:       0     Off Road Left:     10     Other Fixed Object:     0       0     Off Road Left:     10     Other Fixed Object:     0       0     Off Road Left:     10     Other Fixed Object:     0       0     Off Median:     0     Traffic Signal Pois:     0     Road Maithenace Equippotents:       0     Off Median:     0     Bridge Rail:     0     Total Other Objects:       1     Dark - Unlighted     0     Bridge Rail:     0     Total       0     Dark - Unlighted     0     Concrete Barrier:     0     Involving Other Objects:       0     Name     15     Bic O F:     0 J:     0     Ref Fired Objects:       0     Name     16     Coseroad (A):     0     Ref Fired Objects:       0     Name     16     Coseroad (A):     0     Ref Fired Obj					
Location   On Road: 2   Bicycle: 0   Crash Cushion:     Location   Bicycle: 0   Matibac:     Off Road Laft: 10   Off Road Laft: 10   Matibac:     Off Road Laft: 10   Off Road Laft: 10   Wild Animal: 0   Total Fixed Object:     Off Road Laft: 10   Off Road Laft: 10   Wild Animal: 0   Rocks In Roadway:     Off Road I aft: 23   Wild Animal: 0   Rocks In Roadway:   Bicycle: 3     Unknown: 0   Total: 23   Vehicle CargoDebris:   Total Other Object:     Lighting Conditions   Ounknown: 0   Bicycle: 0   Road Maintenance Equipment:     Davinght: 14   Dawn or Dusk: 1   Dark - Lighted   Bic OF: 0 J: 0   Involving Other Objects:     Mainline: 23   Mainine: 23   Frontage/Ramp Intersectione   Mainline:     None: 15   Raing   Mainline: 23   Mainine: 23   Mainine: 0     None: 15   Raing   Dist: 0   Dist: 0   Dist: 0   Dist: 0     None: 15   Raing   Dist: 0   Dist: 0   Dist: 0   Dist: 0   Total:     Nuk   Dist: 0   Nuk   Dist: 0   Nuk   Dintersection: 16   Nuk   Nuk			-		
Licottion On Road: 2 Off Road Left: 10 Off Road Right: 11 Off Road Right: 11 Off Road Right: 23 Lighting Conditions Daylight 14 Dawn or Dusk: 11 Dark - Lighted 0 Dark - Lighted 8 Unknown: 0 Total: 23 Weather Conditions None 15 Rain: 3 Snow/Sleet/Hait 0 Forg 3 Dust 0 Wind 0 Unknown: 22 Crash Rates POC: D.21* * NVMT FAT: 0.00* Total: 0.55* Crash Rates POC: 0.21* * NVMT FAT: 0.00* Total: 0.55* Kain: 0.55*			0		
On Road: 2 Off Road Left: 10 Off Road Right: 11 Off Road at Tee: 0 Unknown: 0 Unknown: 0 Unknown: 0 Dark-Lighted 10 Dark-Lighted 8 Unknown: 0 Dark-Lighted 8 Unknown: 0 None 15 Raint 3 Dust 0 Wind 0 Unknown: 2 Creash Rates POC: 0.21 * *NVMT FAT: 0.00 * Totat: 0.53 * Matorized Bicycle: 0 Store of All Directions Maintine: 23 Creash Rates Poc: 0.21 * *NVMT FAT: 0.00 * Totat: 0.53 * Matorized Bicycle: 0 Store of All Direction: 4 At Intersection: 4 At Intersection: 16 In Alley: 0 Roundabout: 0 Parking Lot: 0 Unknown: 0 Non Intersection 16 In Alley: 0 Roundabout: 0 Parking Lot: 0 Creash Ratea FAT: 0.00 * Totat: 0.53 * Matorized Bicycle: 0 Roundabout: 0 Parking Lot: 0 Creash Ratea Invite Road Treatment: Unknown: 0			-		
Off Road Left:     10     Domestic Animal:     0     Total Fixed Objects:       Off Road Right:     11     0     Rocks In Road Way:     Rocks In Road Way:       Off Road I Tee:     0     Wild Animal:     0     Rocks In Road Way:       Off Road Lift:     0     Rocks In Road Way:     Rocks In Road Way:       Off Road Lift:     0     Road Maintenance Equipment:     Involving Other Object:       Off Noar Road Right:     0     Total:     23       Lighting Conditions     Concrete Barrier:     0     Total:     0       Dark - Lighted     0     Concrete Barrier:     0     Total:     0       Dark - Unlighted     8     Off:     0     None     16       Barn - Sand     0     C:     0 G:     0 K:     0       Croseroad (A):     0     C:     0     Rt Frontage Rd (L):     0       None     15     Rain:     3     Dust     0     C:     0 C:     0 C:       None     15     Rain:     3     Dust     0     C			-		
Off Road Right:   10     Off Road Right:   11     Off fin Median:   0     Weither Conditions   0     Total:   23     Lighting Conditions   0     Daylight:   14     Dawn or Dusk:   0     Total:   23     Weather Conditions   0     Dark - Unlighted   0     Mainline:   23     Weather Conditions   0     None:   15     Ramp S   15     Rain:   3     Snow/Sleet/Hait   0     Unknown:   0     None:   15     Road Description   41 Intersection:     Road Description   41 Intersection:     Non Intersection:   18     In Alley:   0     Road Description   10     Road Description   11     Ramp:   0					
Off Road at Tel:   0     Off Road at Tel:   0     Off Road at Tel:   0     Off Median:   0     Unknown:   0     Total:   23     Lighting Conditions   0     Davisitions   0     Concrete Barrier:   0     Maintine:   23     Frontage/Ramp Intersections   0     Maintine:   23     Meather Conditions   0     None:   15     Ramps   15     Rain:   3     Snow/Sleet/Hait   0     O   0     Dust   0     Non metresection:   14     At Intersection:   4     At Intersection:   16     Intersection:   18     Non Intersection:			-		
Offrin Median:   0     Unknown:   0     Traffic Signal Pole:   0   Road Maintenance Equipment:     Unknown:   0     Total:   23     Lighting Conditions   0     Daylight   14     Dawn or Dusk   1     Dark - Lighted   0     Dark - Lighted   0     Mainline:   23     Weather Conditions   0     Name   15     Snow/Sleet/Hait   0     Dust   0     Fog   3     Dust   0     Wind   0     Dust   0     Wind   0     Dust   0     Non Intersection:   18     Minitersection:   18     Mudd   0     Unknown:   0     Road Description   Road Conditions     Road Description   Road Conditions     Road Description   Road Conditions     Road Description   Nuddy:     Non Intersection:   18     Non Intersection:   18 </td <td>-</td> <td></td> <td></td> <td></td> <td></td>	-				
Unknown:   0     Total:   23     Lighting Conditions   0     Daylight   14     Dawn or Dusk   0     Total:   23     Weather Conditions   0     Dark - Unighted   0     Mainline:   23     Weather Conditions   0     Dark - Unighted   0     Mainline:   23     Weather Conditions   0     Rain:   3     Snow/Sleet/Hait   0     Dust   0     Unknown:   0     Total:   23     Croseroal (A):   0     None:   15     Rain:   3     Snow/Sleet/Hait   0     Dust   0     Unknown:   2     Total:   23     Croash Rates   Por     PCO:   0.21*     FAT:   0.00*     Total:   0.53*     Croash Rates   Porelign Material:     PCO:   0.21*     FAT:   0.00*     T			-		
Total:   23   Guard Rail:   0   Unknown:     Lighting Conditions   Cable Rail:   0   Total:   Total:     Daylight   14   Concrete Barrier:   0   Total:   Total:     Dark - Unighted   0   Mainline:   23   Frontage/Ramp Intersections   Minime:     Dark - Unighted   0   Total:   0<			0	Involving Other Object:	
Lighting Conditions   0   Cable Rail: 0   0   Total:     Dayright 14   Dawn or Dusk 11   0   Concrete Barrier: 0   Total:   Total:     Dark - Lighted 0   Dark - Unighted 8   Mainline: 23   Frontage/Ramp Intersections.   Frontage/Ramp Intersections.     Dark - Unighted 8   Unknowr: 0   Mainline: 23   Frontage/Ramp Intersections.     Totat: 23   Prontage/Ramp Intersections.   M:   0 N:   0 O:   0 P:     None 15   8:   0 F:   0 J:   0   Left Frontage Rd (L):   0     None 15   8:   0 F:   0 J:   0   How None:   0   Total:     Snow/Sleet/Hait 0   0   Fog 3   0   Left Frontage Rd (R):   0   Total:     Dust 0   Fog 3   0   Lintersection:   4   At Intersection:   4     Muddy:   Non Muddy:   Nuddy:   Nuddy:   Nuddy:   Snowy:   Foreign Material:     PDO: 0.21 * * MWAT   * 100 MVMT   Parking Lot:   0   Snowy:   Foreign Material:     FAT: 0.00 * Total: 0.53 *   *   Total: 25   Vitt Road Treatment:	Total 23	Bridge Rall:	-	Total Other Objects:	
Daylight   14     Dawn or Dusk   1     Dark - Lighted   0     Dark - Unighted   8     Unknown   0     Total:   23     Weather Conditions   0     None   15     Rainr   3     Snow/Sleet/Hait   0     Fog   3     Dust   0     Vind   0     Unknown:   2     Total:   23     Crash Rates   *     PDO:   0:21 * *     MWIT   *     FAT:   0:00 *     Total:   0:53 *			-	Unknown:	
Dawn or Dusk   1     Dark - Unlighted   0     Dark - Unlighted   0     Unknown   0     Total:   23     Weather Conditions   Croseroad (A):     None:   15     Rain:   3     Snow/Sleet/Hait   0     Dust:   0     Dust:   0     Dust:   0     Unknown:   0     Total:   23     Meather Conditions   Croseroad (A):     None:   15     Rain:   3     Snow/Sleet/Hait   0     Croseroad Dust:   0     Dust:   0     Nonicre:   1     Intersection:   4     At Intersection:   4     At Intersection:   1			-	Total:	
Dark - Lighted     0       Dark - Unlighted     0       Mainline:     23       Mainline:     23       Total:     23       Total:     23       Mainline:     23		Concrete Barrier:	0		
Dark - Unlighted Unknown:   Mainline:   23   PromageNamp intersections     Mainline:   23   PromageNamp intersections     Total:   23   Mainline:   23     Weather Conditions   Total:   0:   0.   0:   0.     None:   15   Ramps:   0   C:   0.   C:   0.     None:   15   Rain:   3   D:   0.   KF Frontage Rd (L):   0     D:   0.H:   0.Z:   0   Rt Frontage Rd (R):   0     D:   0.H:   0.Z:   0   Hov Lange Rd (R):   0     D:   0.H:   0.Z:   0   Unknown:   0     D:   0.H:   0.Z:   0   Unknown:   0     Wind   0   Non Intersection:   18   Nuddy:     Intersection:   18   In Alley:   0     On Non Intersection:   18   Snowy:   Icy:     Stushy:   ForeIgn Material:   Wint Road Treatment:     D:   0.0:   Total:   0:     Nuiddy:   Non Intersection:		<mark>Mainline/Ramps/Frontage l</mark>			
Unknown     0     Crossroad (A):     0     M:     0 Nt     0     O:     D P:       Totat     23     Imamps     Imamps     0     Imamps     0     Imamps     0					
Total     23       Weather Conditions     B:     0 F:     0 J:     0     Left Frontage Rd (L):     0       Nome     15     Raint     3     Rod Description     Road Description     Housewith     0       Snow/Sleet/Hait     0     Fog     3     Dust     0     Total:     0     Total:     Dry:     Conditions       Wind     0     Unknown:     2     At Intersection:     4     At Intersection:     4     Muddy:     Nuddy:     Nuddy:     Nuddy:     Nuddy:     Snowy:     E:     0     Nuddy:     Snowy:     E:     0:     Snowy:     E:     0:     Snowy:     E:     0:     Nuddy:     Nudy:			M:	0 Nt 0 O: 0 P:	
Weather Conditions     Bit     D F:     0 J:     0 Left Frontage Rd (D):     0       None     15     C:     0 G:     0 K:     0     Rt Frontage Rd (D):     0       None     15     Rain     3     Dist     0     D:     0 H:     0 T:     0       Fog     3     Dust     0     E:     0 I:     0 Z:     0     Unknown:     0     Total:     0       Vind     0     At Intersection:     4     At Intersection:     18     Nuddy:     Nuddy:     Nuddy:     Nuddy:     Nuddy:     Nuddy:     Nuddy:     Nuddy:     Snowy:     Icy:	Total 23				
None     15 Rain     D:     0 H:     0 T:     0 D:     HOV Lanes(V):     0 Unknown:     0     Total:       Snow/Sleet/Hait     0     Fog     3     Dust     0     At Intersection:     4     Dry:     Nuddy:     Nuddy:     0     Total:     0     Total:     0     Total:     0     Total:     0     Nuddy:     Nu					
Rain 3 SnowSleet/Hait 0 Just 0 Unknown: 2 E: 0 I: 0 Z: 0 Unknown: 0 Total:   SnowSleet/Hait 0 Wind 0 Unknown: 2 Ford At Intersection: 4 At Intersection: 4 At Intersection: 18 Intersection: 18 Intersection: 18 In Alley: 0 Roundabout: 0 Roundabout: 0 Roundabout: 0 Roundabout: 0 FAT: 0.00 * Road Conditions Dry: Unknown: 0 Total:   Crash Rates FAT: 0.00 * Total: 0.53 * Parking Lot: 0 Unknown: 0 Nuddy: Non Intersection: 18 In Alley: 0 Roundabout: 0 Dry w/lcy Road Treatment: Icy w/lcy Road Treatment: Slushy w/lcy Road Treatment: Slushy w/lcy Road Treatment: Unknown: Nuddy: Nudd					
Snow/Sleet/Hait   0     Fog   3     Dust   0     Wind   0     Unknowr   2     Total:   23     Crash Rates   * MVMT     PDO:   0.21 *     * 100 MVUT     Null:   0.33 *     * 100 MVUT   0     FAT:   0.00 *     Total:   0.53 *					1
Fog   3     Dust   0     Wind   0     Unknown   2     Total:   23     Crash Rates   *     PDO:   0.21*     * 100 MVMT   0     Nulley:   0     Non Intersection:   18     MIRG   0     Crash Rates   *     PDO:   0.21*     * 100 MVMT   Parking Lot:     PAT:   0.00*     Total:   0.53*			-		
Uust 0   Wind 0   Unknowr 2   Totat 23   Crash Rates NUMIT   PDO: 0.21 *   * MVMT Roundabout:   0 Ramp:   0 With Ramp:   0 With Road Treatment:   Totat: 0.53 *		· · · · ·			
Wind 0   Unknown 2   Total: 23   'Crash Rates- PDO: 0.21*   * MWAIT Ramp:   PDO: 0.21*   * 100 MWAIT   FAT: 0.00*   Total: 0.53*	Dust 0				1
Crash Rates Non Intersection: 18 Snowy:   PCO: 0.21* * MVMT 0 Ramp: 0   INL: 0.32* * 100 MVMT Parking Lot: 0 With Road Treatment:   FAT: 0.00 * Totat: 0.53 * Totat: 23					
Totat 23 In Alley: 0 Icy:   Crash Rates Roundabout: 0 Slushy:   PDO: 0.21* * 100 MVMT Ramp: 0   INL: 0.32* * 100 MVMT Parking Lot: 0   FAT: 0.00* Totat: 0.53* Wet Wilcy Road Treatment:   Low Wilcy Road Treatment: Low Wilcy Road Treatment: Unknown:   Low Wilcy Road Treatment: Low Wilcy Road Treatment: Low Wilcy Road Treatment:   Low Wilcy Road Treatment: Low Wilcy Road Treatment: Low Wilcy Road Treatment:	Unknown 2				
Crash Rates   Roundabout:   0   Slushy:     PDO:   0.21 *   * MVMT   Ramp:   0     INL:   0.32 *   * 100 MVMT   Parking Lot:   0   With Road Treatment:     FAT:   0.00 *   Total:   0.53 *   0   Dry wloy Road Treatment:     Snowy wloy Road Treatment:   Inclait   23   Snowy wloy Road Treatment:   Net wilcy Road Treatment:     Unknown:   Unknown:   Unknown:   Unknown:   Unknown:   Unknown:	Total: 23				
PDO: 0.21 * * MVMT Ramp: 0   INL: 0.32 * * 100 MVMT Parking Lot: 0   FAT: 0.00 * Total: 0.53 * Unknown: 0   Total: 23 23 Snowy w/lcy Road Treatment: Ukrament:   Snowy w/lcy Road Treatment: Icy w/lcy Road Treatment: Ukrament:   Unknown: 0 Ukrament: Ukrament:	Crash Rates	Roundabout:	0		
INL: 0.32* ** 100 M/MIT FAT: 0.00 ** Total: 0.53 * Total: 23 With Road Treatment: Wet wilcy Road Treatment: Snowy wilcy Road Treatment: Icy wilcy Roa					
Total: Zo   Wet wl/cy Road Treatment: Snowy wl/cy Road Treatment:   Icy wl/cy Road Treatment: Slushy wl/cy Road Treatment:   Slushy wl/cy Road Treatment: Unknown:					
Snowy wilcy Road Treatment: Icy wilcy Road Treatment: Slushy wilcy Road Treatment: Unknown:	FAT: 0.00 ** Total: 0.53 *	Unknown:	0		
lcy wilcy Road Treatment: Slushy wilcy Road Treatment: Unknown:		Total:	23		
Slushy wildy Road Treatment: Unknown:					
Unknown:			_		
Total:					
					2
				10141:	

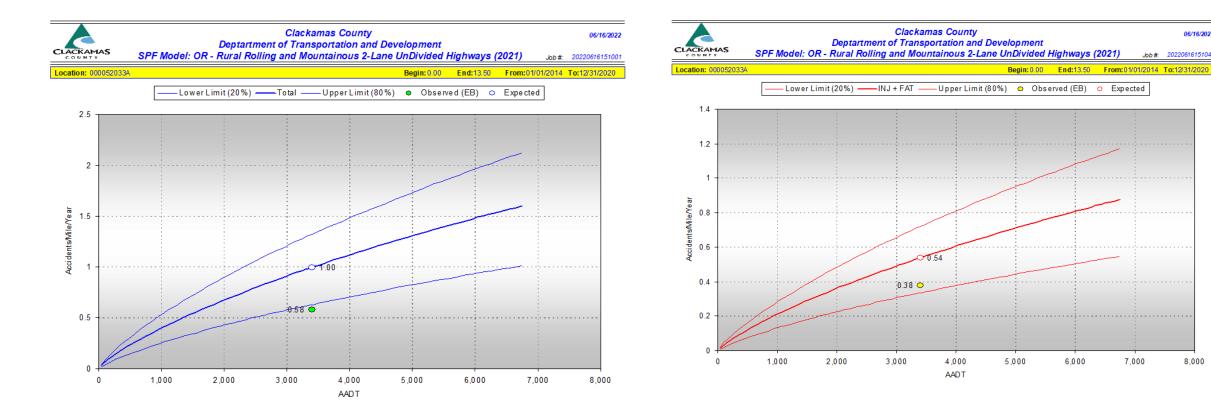
	eraneu	Jumm		Crashes Report			06221150
ocation: 52033 A	Mob 4	- Veh Z -	Begin:	6.00 End: 10.00 From: Vehicle Movement		4 To:12/3 - Ven Z -	
Passenger Car/Van Passenger Car/Van w/Trt	22 0	2	0	Going Straight: Slowing:	22	0	0
Pickup Truck/Utility Var	0	0	0	Stopped in Traffic:	0	1	
Pickup Truck/Utility Yan w/Trt	ŏ	ŏ	ŏ	Making Right Turn:	1	ò	č
SUV:	0	0	0	Making Left Turn:	0	1	0
SUV w/Trt	0	0	0	Making U-Turn:	0	0	
Truck 10k lbs or Less:	0	0	0	Passing:	0	0	0
Trucks > 10k lbs/Bus > 15 People: School Bus < 15 People:	0	0	0	Backing: Enter/Leave Parked Position:	0 0	0	0
Non School Bus < 15 People:	0	0	0	Enter/Leave Parked Position: Starting in Traffic:	0	0	
Motorhome	0	0	0	Parked:		ő	
Motorcy cle:	1	ŏ	ŏ	Changing Lanes:		ŏ	č
Bicyde	0	0	0	Avoiding Object/Veh in Road:	D	0	6
Motorized Bicycle:	0	0	0	Weaving:	D	0	0
Farm Equipment	0	0	0	Wrong Way:		0	0
Hit and Run - Unknown	0	0	0	Other:	D	0	0
Other. Unknown	0	0	0	Unknown:	0	0	(
		-		Total:	23	2	(
Total:	23	2	0				
Contributing Factor	Veh 1	Veh 2 -	Veh 3 –	Direction		Veh 2	Veh 3
No Apparent Contributing Factor:	23	2	0	North:		1	0
Asleep at the Wheet	0	0	0	Northeast:		0	0
lliness:	0	0	0	East	5 0	1	9
Distracted by Passenger. Driver Inexperience:	0	0	0	Southeast: South:	7	0	0
Driver Fatigue	ŏ	ŏ	ŏ	Southwest:		ŏ	č
Driver Prebccupied	0	ō	ō	West:		0	, i
Driver Unfamilar with Area	0	0	0	Northwest	Ð	0	0
Driver Emotionally Upset	0	0	0	Unknown:	1	0	0
Evading LawEnforcement Officier.	0	0	0	Total:	<b>Z</b> 3	2	C
Physical Disability. Unknown	0	0	0				
		-	-				
Total:	23	2	0				
Condition of Driver	Veh 1 -	- Veh 2 -	Veh 3 –				
No Impairment Suspected:	5	0	0				
Alcohol Involved: RX, Medication, or Drugs Involved:	3	0	0				
Illegal Drugs Involved:	1	0	0				
Alcohol and Drugs Involved:	ò	ŭ	ŏ				
Driver/Pedestrian not Observed:	ō	ō	ō				
Unknown:	14	2	0				
Total:	23	2	0				

# **Rear end crashes**



0.110	0.1000	0011210
No. 520	33	S BEAVERCREEK RD
	MAP 144-35	L-SE
0.000	LEFT	UNION MILLS RD (42026)
0.000	RIGHT	OSH 211
0.010		BCM
0.160	BRIDGE	#6198 - MEADOWBROOK
0.270	RIGHT	PVT HALLBACKA LN
0.330 0.430	LEFT	SALO RD (42016) ACCESS RD TO SALO RD
1.410	RIGHT	PVT VALLEY VISTA
2.310	RIGHT	NORRY CT (P3170)
3.240	RIGHT	PVT ROCKIE DR S
3.320	LEFT	PVT LOST CANYON RD
3.370	RIGHT	PVT ROCKIE DR S
4.560	LEFT	WINDY CITY RD (43027)
4.560	RIGHT	UNGER RD (43026)
5.580	RIGHT	CEDAR CREEK LN (P3168)
5.850	RIGHT	BUTTE RD (43003)
6.210	LEFT	GARD RD (43008)
6.320	BRIDGE	#TBD2 - BEAVERCREEK ROAD
7.340	LEFT	PVT RED HEREFORD LN
7.410	LEFT	PVT KELLEY CRK LN
7.820 8.240	RIGHT	UPPER HIGHLAND RD (44025)
8.700	LEFT RIGHT	LARKIN RD (42008) LOWER HIGHLAND RD (32049)
9.150	LEFT	SPANGLER RD (42028)
9.790	CROSS	CARUS RD (42044)
10.160	LEFT	PVT WHITNEY LN
10.760	RIGHT	YEOMAN RD (32024)
10.770	RIGHT	STEINER RD (32052)
11.070	LEFT	ESSIG LN
11.270	CROSS	FERGUSON RD (32115)
11.620	LEFT	KAMRATH RD (32021)
11.621	LEFT	LELAND RD (32020)
12.020	RIGHT	IVEL RD (32108)
12.490	LEFT	LAMMER RD (32039)
MP 10,500	Placement	
12.500	RIGHT	CAMELLIA CT (P9281)
12.680 12.780	RIGHT LEFT	WILSON RD (32038)
13.250	CROSS	TIOGA RD (P2132) HENRICI RD (32009)
13.340	RIGHT	PVT RD
13.520	RIGHT	PVT OLD ACRES LANE
13.530	LEFT	TIMBERSKY WAY (32096)
13.880	LEFT	CT GLEN OAK RD S
14,130	LEFT	CT MYERS RD
14.320	LEFT	ACCESS TO AND FROM OREGON
		CITY HIGH SCHOOL
14.490	RIGHT	LODER RD (32005)
14.760	LEFT	ENTRANCE TO CCC
15.040	LEFT	CT MARJORIE RD
15.080	LEFT	ENT TO BERRYHILL
15.160	LEFT	MAIN ENT. TO BERRYHILL
15.160	RIGHT	MAPLELANE RD (32001)
15.310	00000	ECM
15.320	CROSS	OSH 213

## **Rear end crashes**



Any intentional or inadvertent release of this data or any data derived from its use shall not constitute a waiver of privilege pursuant to 23 USC 407.

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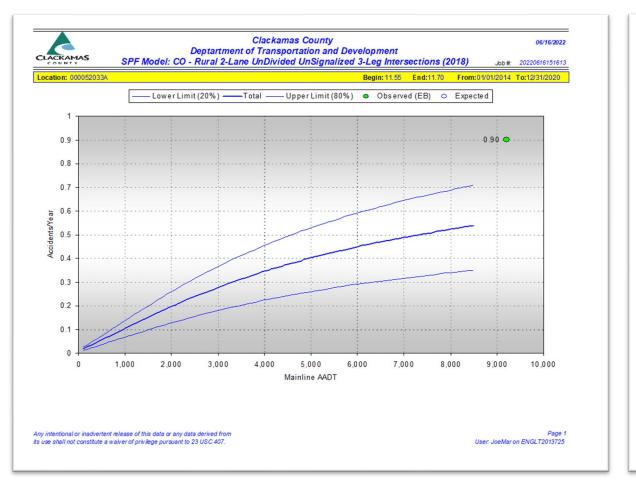
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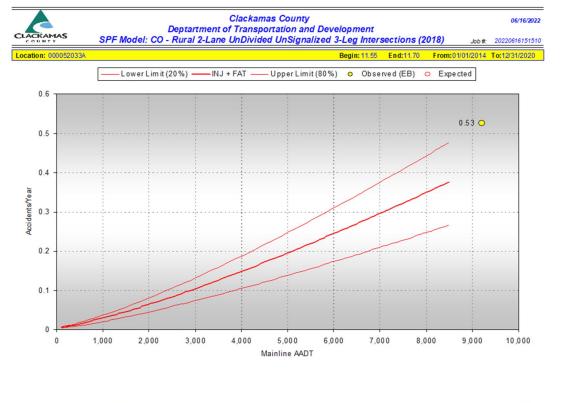
06/16/2022

Job #: 20220616151048

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# Beavercreek/Kamrath/Leland Safety Performance Functions





Any intentional or inadvertent release of this data or any data derived from its use shall not constitute a waiver of privilege pursuant to 23 USC 407. Page 1 User: JoeMar on ENGLT2013725

# Beavercreek/Kamrath/Leland Crashes

Severity     Crash Type       PDO:     4       INU:     6     10 injured       FAT:     0     0 killed       Totat:     10       Number of Vehicles:     0       One Vehicle:     0       Three of More:     1       Unknown:     0       Totat:     10       Number of Vehicles:     9       Three of More:     1       Unknown:     0       Totat:     10       Coration     Totat:       On Road:     0       Off Road Left:     0       Off Road Left:     0       Off Road Left:     0       Minknown:     0       Dark - Lighted:     0       Minknown:     0       Off Road Left:     0       Otf Road Left:     0       Dark - Lighteft:     0       Dark:	Location: 52033 A	Be	gin: 11.55	End: 11.7	0 F rom: 01	/01/2014 To	:12/31/2020
N1:   6   10 Silled     FAT:   0   0 Killed     FAT:   0   0 Killed     Totat:   10     Number of Vehicles   9     One Vehicle:   9     Three or More:   1     Unknown:   0     Totat:   10     Number of Vehicles   9     Three or More:   1     Unknown:   0     Totat:   10     Cotation   Case Side Side Side Side Side Side Side Sid	Severity -	Crash Type					
FAT:   0   0.klied     Tota:   10     Rumber of Vehicles   0     One Vehicles:   0     Three of More:   1     Dista:   10     Number of Vehicles:   0     Three of More:   1     Dista:   10     Introduction   Test:     On Road:   0     Off Road Left:   0     Off Road Left:   0     Off Road Right:   0     Cotation   Total:     Off Road Right:   0     Cotation   Total:     Off Road Right:   0     Cotations   Off Road Right:     Dark - Unlighted:   0     Road Right:   0     Cotati:   10     Total:   10     Dark - Unlighted:   0     Dark - Unlighted:	PDO: 4	Overturnin	a: 0		1	Bridge Abutn	nent: 0
Total:     10       Number of Vehicles     Broadside:     8     Embankment:     0       One Vehicle:     0     Cuto:     0     Cuto:     0       Tore of More:     1     Defined of Post:     0     Fence:     0       Total:     10     Sideswipe (Opposite):     0     Large Boulders or Rocks:     0       Nuknown:     0     Total:     10     WallPaiding:     0     Cresh Cushon:     0       I cotati     10     Off Road Left:     0     Onesdic Ammat:     0     Cresh Cushon:     0       Off Road Left:     0     Omesdic Ammat:     0     Total:     0       Off Road Tere:     0     Omesdic Ammat:     0     Total:     0       Off Road Tere:     0     Omesdic Ammat:     0     Total:     0       Off Road Tere:     0     Total:     0     WallPaidud Ammat:     0     Road Maintenance Equipment:     0       Off Road Tere:     0     Total:     10     Concrete Barier:     0     Total:	INJ: 6 10 :Injured	Other Non Collision	n: 0			Column/I	Pier: 0
Lota:     UU     Head On:     0     Curb:     0       Number of Vehicle:     0     The ear End:     1     Delineator Post:     0       Number of Vehicle:     0     Three of More:     0     Tree:     0       Three or More:     0     Sideswipe (Same):     0     Large Boulders or Accks:     0       I unknown:     0     Tree:     0     WalkBoulders:     0     Large Boulders or Accks:     0       I unknown:     0     Total:     0     Parked Motor Vehicle:     0     WalkBoulders:     0       I unknown:     0     Ord Road Kight:     0     Mailbox:     0     Mailbox:     0       Off Road Left:     0     Motorzed Bio; Ole:     0     Mailbox:     0     Total:     0       Dark- Unlighted:     0     Wild Ammat:     0     Rood Maintenance Equipment:     0       Darking Ti:     7     Darking Ti:     7     Mainline:     0     Total:     0       Dark- Unlighted:     0     Correte Barrier:     0	FAT: 0 0 :Killed	Pedestrian	s: 0			Culvert/Head	wall: 0
Humber of Vehicles     Head On:     0     Curb:     0       Number of Vehicles:     0     Rear End:     1     Defenator Post:     0       Two Vehicles:     0     Tata:     0     Tree:     0       I unknown:     0     Total:     0     Sideswipe (Opposite):     0     Large Boulders or Rocks:     0       I unknown:     0     Total:     0     WalfWeidling:     0     WalfWeidling:     0       I cocation     On Road:     10     Off Road Left:     0     Othoresic Animat:     0     Rocks in Roadway:     0       Off Road Left:     0     Othoresic Animat:     0     Rocks in Roadway:     0       Off In Median:     0     Rocks in Roadway:     0     Ithorwhile:     0     Total Evel Object:     0       Outhnown:     0     Total:     10     Concrete Barie:     0     Total Evel Object:     0       Off In Median:     0     Carab Raat:     0     Total:     10       Dark - Unlytted:     0     Garab Raat:     0	Total: 10						
One Vehicle:     0     Fence:     0       Two Vehicles:     9     Tiree of More:     0     Tree:     0       Turk own:     0     Totat:     0     Tree:     0       I uknown:     0     Totat:     0     Overtaking Turn:     0     Large Boulders or Accks:     0       I uknown:     0     Totat:     0     WalkBuilding:     0       On Road:     10     Off Road Left:     0     Wold Anmat:     0     Totat:     0       Off Road Left:     0     Off Road Left:     0     Wild Anmat:     0     Rocks in Roadway:     0       Off In Median:     0     Totat:     0     Signe:     0     Involving Other Object:     0       Dark - Unlighted:     0     Unknown:     0     Signe:     0     Totat:     10       Wathereschore:     0     Totat:     10     Concrete Barle:     0     Totat:     10       Dark - Unlighted:     0     Concrete Barle:     0     Totat:     10							
Two Vehicles:   9   Tree or More:   1     Unknown:   0   Approach Turn:   0   Large Bouders Rocks:   0     I unknown:   0   Total:   10   Bicycle:   0   Large Bouders Rocks:   0     I unknown:   0   Total:   10   Bicycle:   0   WallBuilding:   0     I unknown:   0   Grash Addres   0   Mailbox:   0   Cash Addres   0     Off Road Left:   0   Off Road at Tee:   0   Other Fiked Object:   0   Mailbox:   0     Off Road at Tee:   0   Off Road at Tee:   0   Wid Arimat:   0   Rocks in Roadway:   0     Off Road at Tee:   0   Domestic Arimat:   0   Rocks in Roadway:   0   0   Total:   10     Unknown:   0   Total:   10   Bidge Rait:   0   Total:   10     Unknown:   0   Casle Rait:   0   Total:   10     Dark - Lighted:   2   Dark - Lighted:   0   Caste Rait:   0   Total:   10     <							
Three or More:   1     Unknown:   0     Total:   100     Total:   100     Location   On Road:   10     Off Road Left:   0   Crash Cushion:     Off Road Right:   0   Total:   0     Dark-Lighted:   0   Wold Animal:   0   Total:   0     Dark-Lighted:   2   O   Rainge Rait:   0   Total:   10     Dark-Lighted:   0   Concrete Barrier:   0   Total:   10     Windthet:   0   Costale Rait:   0   Total:   10     Windtwow:   0   Co   0   For   0   Costale Rait:   0     Ourstait:   10   Costale Rait:   0   Total:   10     Windtwow							
Unknown:     0     Total:     10       Iocation     Parked Motor Vehicle:     0     WaiBluiding:     0       Iocation     Bicycle:     0     Mailbox:     0       Off Road Left:     0     Other Fiked Object:     0       Off Road Left:     0     Total:     0     Bicycle:     0       Off Road Left:     0     Total:     0     Bicycle:     0       Off Road Right:     10     Sign:     0     Road Maintenance Equipment:     0       Dark - Unighted:     0     Caste Rait:     0     Unknown:     1       Dark - Unighted:     0     Caste Rait:     0     Caste Rait:     0       None:     7     Rai					Lorgo R		
Total:     10       Location     Raiway Vehicle:     0     Crach Cushion:     0       Off Road Left:     0     Off Road Left:     0     Off Road Left:     0       Off Road Left:     0     Off Road Left:     0     Off Road Left:     0       Off Road Left:     0     Off Road Left:     0     Off Road Left:     0       Off In Median:     0     Total:     0     Wild Animal:     0     Rocks in Roadway:     0       Off In Median:     0     Total:     0     Wild Animal:     0     Rocks in Roadway:     0       Uhknown:     0     Total:     10     Road Maintenance Equipment:     0       Sign:     0     Total:     0     Total:     10       Uhknown:     0     Cotale Rait:     0     Total:     10       Weather Conditions     Total:     0     Total:     10       Weather Conditions     For     0     Left Frontage Rd (L):     0       Duknown:     0     For     0     Left Fr					Large B		
Total:     10       Location     Bicycle:     0     Crash Cushion:     0       Bicycle:     0     Mailbox:     0       Orf Road Left:     0     Other Fixed Objects:     0       Off Road Left:     0     Other Fixed Objects:     0       Off Road at Tee:     0     Wild Animal:     0     Rocks in Roadway:     0       Off Road at Tee:     0     Total:     0     Rod Maintenance Equipment:     0       Off Road Light:     0     Total:     0     Rod Maintenance Equipment:     0       Off Road Tee:     0     Road Maintenance Equipment:     0     Unknown:     1       Davinght:     7     Davinght:     0     Gaard Rait:     0     Unknown:     1       Davinght:     7     Davinght:     7     Concrete Barrier:     0     Total:     10       Waitiner Conditions     0     C:     0 :     0 :     Concrete Barrier:     0     Rod Description     MininerRampSirontage Roads     Minine:     No     Road Socriphion     Road Con							
Location     Bicycle:     0     Mailbox:     0       Of Road (if)     0     Motrized Bicycle:     0     Other Fixed Object:     0       Off Road Right:     0     Other Fixed Object:     0     Other Fixed Object:     0       Off Road Right:     0     Other Fixed Object:     0     Wild Animal:     0     Rocks in Roadway:     0       Off Road Test:     0     Unknown:     0     LightUnity Pole:     0     Road Maintenance Equipment:     0       Off Road Liers:     0     Sign:     0     Involving Other Object:     0       Outshown:     0     Sign:     0     Involving Other Object:     0       Dark - Ughted:     0     Guard Rait:     0     Unknown:     1       Dark - Ughted:     0     MainlineRamps/Frontage Roads     Misintenance Equipment:     0       MainlineRamps/Frontage Roads     Maintenance Frontage/Ramp Intersections     0     0     0       Maintenance Frontage Roads     Maintenance Frontage Roads     Misidenance Frontage Roads     0     0       Wattenations	Total: 10						
On Road:     10 Off Road Left:     Motorized Bicycle:     0     Other Fixed Object:     0       Off Road Left:     0     Domestic Animat:     0     Rocksin Roadway:     0       Off Road Right:     0     Wild Animat:     0     Rocksin Roadway:     0       Off Road It Tee:     0     Wild Animat:     0     Rocksin Roadway:     0       Unknown:     0     Total:     10     None:     7     Road Maintenance Equipment:     0       Dark - Lighted:     0     Total:     10     Cable Rail:     0     Total:     10       Other Fixed Objects:     0     Bridge Rait:     0     Total:     10       Lightling Conditions     Concrete Barier:     0     Unknown:     10       Outscore     Cable Rail:     0     Frontage/Ramp Intersections     Mainline:     0       Nonne:     7     Ramps     0     It or total:     10       Weather Conditions     0     1:     0 Z:     0     Hortexection:     8       For     A lintersection: <td>Location</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Location						
Off Road Left:   0     Off Road at Tee:   0     Itighting Conditions   0     Daylight:   7     Dawn or Dusk:   1     Dark - Unlighted:   0     Unknown:   0     Total:   10     Weather Conditions   0     Fog:   0     Dust:   0     None:   7     Rain:   3     Snow/SleedPhall:   0     Pog:   0     Unknown:   0     Fog:   0     Usinow	On Road: 10				Ot		
Off Road at Tee:   0     Off Road at Tee::   0     Off Road at Tee::   0     Off In Median::   0     Unknown::   0     Total::   10     Light/Utility Pole::   0     Road Maintenance Equipment::   0     Daylight::   7     Dark - Unlighted::   0     Unknown::   0     Mainline:Ramps/Frontage Roads     Mainline:   10     Weather Conditions   7     Rain::   3     Snow/Sleet/Hail::   0     Fog::   0     Dust::   0     Mintersection:   8     At Intresection:   8     Wind::   0     Crash Rates   Moddy:     POO:		Domestic Anima	il: 0		То	tal Fixed Obj	ects: 0
Off Road at Tee:   0   Uphtown:   0   Traffic Signal Pole:   0   Road Maintenance Equipment:   0     Unknown:   0   Total:   10   Sign:   0   Involving Other Object:   0     LightUnity Conditions   Cable Rail:   0   Total Other Object:   0   0     Dayright:   7   Dawn or Dusk:   10   Cable Rail:   0   Total:   10     LightUnity Pole:   0   Cable Rail:   0   Total Other Object:   0     Dark - Lighted:   2   Dark - Unlighted:   0   Mainline:   10   Total:   10     Weather Conditions   None:   7   Ramps   FrontageRamp Intersections   Prontage Rd (L):   0   C:   0 P:   0     Weather Conditions   None:   7   Rain:   3   Snow/Sleet/Hail:   0   C:   0 P:   0   Cital:   10     Weather Conditions   Fog:   0   H:   0 T:   0   Foreign Materisat:   0   Protage Rd (L):   0   C:   0 P:   0     Total:   10   Noni	Off Road Right: 0						
Unknown:     0     Sign:     0     Involving Other Object:     0       Total:     10     Bridge Rait:     0     Total Other Object:     0       Lighting Conditions     Daylight:     7     Dawn or Dust:     0     Total:     10       Dark - Lighted:     2     Dark - Lighted:     2     Dark - Lighted:     0     Total:     10       Oweather Conditions     None:     7     Ramps     None:     7       Sinow/Steet/Hail:     0     Frontage Rd (L):     0     Cosroad (A):     0     Hove Lanes (V):     0       None:     7     Ramps     None:     7     Cosroad (A):     0     Hove Lanes (V):     0       None:     7     Ramps     None:     7     None:     7     None:     0     Intersection:     8     None:     0     Total:     10       None:     7     At Intersection:     8     At Intersection:     8     Nuday:     0     Noundabout:     0     Snowy:     0     Snowy:     0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Total:   10     Lighting Conditions   Daylight:   7     Daylight:   7   Daylight:   7     Dawn or Dusk:   1   Cable Rait:   0   Intersections     Dark - Lighted:   2   Dark - Unighted:   0   Intersections   Mainline:   10     • Weather Conditions   Mone:   7   Ramps   E   0 F:   0 J:   0   Crossroad (A):   0   Intersections   M:   0 N:   0   0   0   Intersections   M:   0 N:   0   0   0   0   Intersection:   0   N:   0   0   0   0   0   0   0   0   10   None:   0   10   0   10   0   0   0   10   0   0   0   10   0   10   10   Non Intersection:   8   At Driveway Access:   0   10   Nuddy:   0   Nudwidy:   0   Nudwidy:   0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Iotal:     10     Guard Rail:     0     Unknown:     1       Lighting Conditions     Daylight:     7     Dawn or Dusk:     1     Total:     10       Dark - Lighted:     2     Dark - Lighted:     2     Dark - Lighted:     2       Dark - Unlighted:     0     Mainline:     10     Frontage/Ramp Intersections       Mainline:     10     Crossroad (A):     0     If Frontage Rd (L):     0       Weather Conditions     0     C:     0 G:     0 K:     0     Ramps       Snow/SleedVHail::     0     D:     0 H:     0 Z:     0     Heft Frontage Rd (L):     0       Weather Conditions     0     D:     0 H:     0 Z:     0     HoV Lanes (V):     0       B:     0 F:     0 J:     0 Z:     0     HoV Lanes (V):     0     Total:     10       Dust:     0     Dittrisection:     8     At Driveway Access:     0     Intersection:     8     Wet:     3       Non Intersection:     0     No Intersection:	Unknown: 0						
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Construction     Ramps       Weather Conditions     B:     0 F:     0 J:     0 C:     0 C							
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Otherrown:   0     Total:   10     Orash Rates   Pop:     PO:   0.85 * * MVMT     INJ:   1.27 * **100 MVMT     FAT:   0.00 **     Total:   2.12 *	Wind: 0						
Total: 10   In Alley: 0   Ic/:: 0     Crash Rates   Roundabout: 0   Ramp: 0     PDO: 0.85 * *100 MVMT   Ramp: 0   Foreign Material: 0     INJ: 1.27*   *100 MVMT   Parking Lot: 0   With Road Treatment: 0     FAT: 0.00**   Total: 2.12 *   Total: 10   Total: 10	Unknown: 0						
Crash Rates   Roundabout: 0   Slushy: 0     PDO:   0.85 * **100 MVMT   Ramp: 0   Parking Lot: 0     INJ:   1.27 *   *100 MVMT   Parking Lot: 0   With Road Treatment: 0     FAT:   0.00 **   Total:   2.12 *   Total: 10	Total: 10						
Class Hadds   ** MVMT     POD:   0.85 *     INJ:   1.27 *     1.27 *   **100 MVMT     FAT:   0.00 **     Total:   2.12 *         Total:   100         FAT:   0.00 **         Total:   100         FAT:   0.00 **         Total:   10         FAT:   0.00 **         Total:   10         FAT:   0.00 **         FAT:							
PLO: 0.85 **100 MVMT INJ: 1.27 **100 MVMT FAT: 0.00 ** Total: 2.12 * Total: 10					1		
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## **CRASH PATTERNS / POSSIBLE ISSUES & TREATMENTS**

- Beavercreek / Maplelane (Broadside, Approach Turn crashes). Slide #6
  - Crash patterns heavy with opposing SEB left to Maplelane and NWB left to shopping center.
    - Flashing yellow arrow has been turned off during the peak hour but may need additional restrictions to cut crashes.
    - Intersection is skewed slightly this can limit the sight distance if cars are queued in the left turn pockets on Beavercreek.
- Butte Rd (MP 5.85) → Carus Rd (MP 9.79) Fixed Object crashes hot spot. Slide #17
  - 4 of 23 crash cause of drugs or alcohol
  - Off road left and right equal
  - 50% injury crashes
  - Add paved shoulders
  - 6" edgeline?
  - Carus to 211 upsize chevrons and further signing enhancements
- Beavercreek / Kamrath / Leland Intsx
  - 8 of 10 crashes = WB $\rightarrow$ SB, broadside
    - Dashed line no ROW/At fault vehicle
  - Ideas here?
    - Traffic from right does not stop?
    - Feasibility study for this intersection to rebuild.
    - Roundabout issues?, right of way, \$7 million
    - Stop bar has been moved west ~ 20 feet (picture old position)



## POTENTIAL PROJECTS BENEFIT/COST MAJOR PROJECT LIST

- 1. Roundabout at Beavercreek / Kamrath
- 2. Add paved shoulders from Butte to Carus (4 miles/ \$1 million/per mile)

LACK		Depta	rtment of Trai Econom	-			Job1	t: 202	206161516	
Location	52033 A			Beg	in: 11.55	End:11.70	From: 01/01/2014	To:12	/31/2020	
Benefit	Cost Ratio	o Calculation	5							
Crashes			Projected Crashes and Reduction Factors					Other Information		
PDO:	4		Weighted PDO:	0.70	35% :CF	RF for PDO	Cost of PDO:	s	11,100	
INJ:	6	10:Injured	Weighted INJ:	1.75	76% :CF	RF for INJ	Cost of INJ:	s	101,800	
FAT:	0	0:Killed	Weighted FAT:	0.00	76%:CF	RF for FAT	Cost of FAT:	S 1	,820,600	
		B/C Weig	hted Year Factor:	7.00	59% :W	eighted CRF	Interest Rate:	5%		
						AAI	OT Growth Factor:	2.0%		
	Cost	:\$ 5,000,000					Service Life:	20		
		t 01/01/2014				Capital	Recovery Factor:	0.080		
	То	12/31/2020	Days	2557		Annual Mainter	nance/Delay Cost:		\$ 0	
Benefit	Cost Ratio	c 0.35	(B/C Based on Inj	jury Numi	bers : PDO	Injured/Killed)				
Type of Ir	mprovement	t: Replace with	Roundabout							
S	ecial Notes	c Intersection I	Related Crashes							

		Depta	Deptartment of Transportation and Development Economic Analysis Report						nt Job #: 202206221150		
Location: 52033 A				Begir	n: 6.00	End: 10.00	From:01/01/2014	To:12	31/2020		
Benefit	Cost Rati	o Calculations	<u>i</u>								
Crashes			Projected Crashes and Reduction Factors				Other Information				
PDO:	9		Weighted PDO:	1.58	35% :C	RF for PDO	Cost of PDO:	\$	11,100		
INJ:	14	16:Injured	Weighted INU:	2.81	35% :C	RF for INJ	Cost of INJ:	\$	101,800		
FAT:	0	0:Killed	Weighted FAT:	0.00	35% :C	RF for FAT	Cost of FAT:	\$ 1	820,600		
		B/C Weig	hted Year Factor:	7.00	35% :W	eighted CRF	Interest Rate:	5%			
						AA	DT Growth Factor:	2.0%			
	Cos	st:\$ 4.000.000					Service Life:	20			
		n: 01/01/2014				Capita	Recovery Factor:	0.080			
	Т	o: 12/31/2020	Days:	2557		Annual Mainte	nance/Delay Cost:		\$0		
Benefit	Cost Ratio	o: 0.33	(B/C Based on In	jury Numb	ers : PDC	)/Injured/Killed)					

#### POTENTIAL PROJECTS BENEFIT/COST MINOR PROJECT LIST

#### Butte to Yoeman MP 6-10 (\$500K)

- Signing / striping / flashers
- Curve warning system
- Center rumbles

#### Carus to Henrici MPs 10.75-13.25 (\$600K)

- Shoulders
- Cener/edgeline rumbles
- Update signage

		Depta	rtment of Trai Economi	nsporta		nd Develop	ment Job	#: 202	<b>10/28</b> 210281:	
Location:	52033 A			Begin: 6.00		End: 10.00	From:01/01/2014	To:12/31/2020		20
Benefit	Cost Rati	o Calculations	i							
Crashes			Projected Cras	Other Information						
PDO:	16		Weighted PDO:	2.38	36% :C	RF for PDO	Cost of PDO:	\$	11,1	00
INJ:	34	44:Injured	Weighted INJ:	6.54	36% :C	RF for INJ	Cost of INJ:	\$	101,8	00
FAT:	0	0:Killed	Weighted FAT:	0.00	36% :C	RF for FAT	Cost of FAT:	\$ 1	,820,6	00
		B/C Weig	hted Year Factor:	7.00	36% :W	eighted CRF	Interest Rate:	5%		
						AA	DT Growth Factor:	2.0%		
	Cos	st: \$ 500.000					Service Life:	5		
From: 01/01/2014						Capita	I Recovery Factor:	0.230		
	т	o: 12/31/2020	Days: 2557			Annual Mainte	nance/Delay Cost:		\$	0
Benefit	Cost Rati	o: 2.16	(B/C Based on In	jury Num	bers : PDC	)/Injured/Killed)				
2011011			(B/C Based on In		bers : PDC	)/Injured/Killed)				

	AMAS	Depta	rtment of Trai	nsporta		d Develop	ment	1	0/28/2022
COUN			Econom	ic Anal	ysis Re	port	Job	#: 202210	28115002
Location:	52033 A			Begi	in: 10.75	End: 13.25	From:01/01/2014	To:12/31	/2020
<u>Benefit</u>	Cost Rati	io Calculations	<u>8</u>						
	Crashes		Projected Cras	hes and	Reduction	Other Information			
PDO:	27		Weighted PDO:	4.02	66% :CI	RF for PDO	Cost of PDO:	\$	0
INJ:	29	49:Injured	Weighted INJ:	7.29	66% :Cl	RF for INJ	Cost of INJ:	\$ 10	1,800
FAT:	2	2:Killed	Weighted FAT:	0.30	66% :CI	RF for FAT	Cost of FAT:	\$ 1,82	0,600
		B/C Weig	hted Year Factor:	7.00	66% :W	eighted CRF AA	Interest Rate: DT Growth Factor:	5% 2.0%	
		st: \$ 6,000,000				Ossila	Service Life:	5	
	Fro	m: 01/01/2014					I Recovery Factor:	0.230	
	т	0: 12/31/2020	Days: 2	2557		Annual Mainte	nance/Delay Cost:	\$	0
Benefit	Cost Rati	o: 0.61	(B/C Based on In	jury Numl	bers : PDO	/Injured/Killed)			
		nt: shoulder wid s: (Composite /	ening, center and e ARF)	dge rumb	les, signs				