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 3rd, 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.

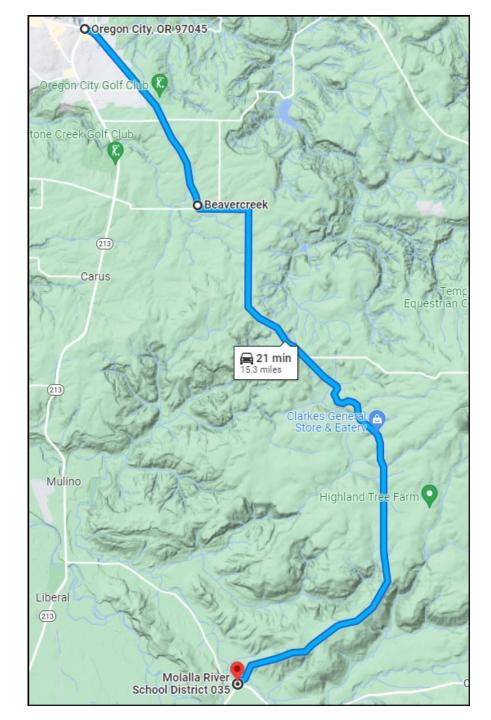
This was followed by a live analysis of Upper Highland and Ridge to show what the software was capable of with the committee. There was some discussion on how Property Damage Only (PDO) crashes are underreported based on Oregon being a self-reporting state. The data is based on ODOT information and is 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.

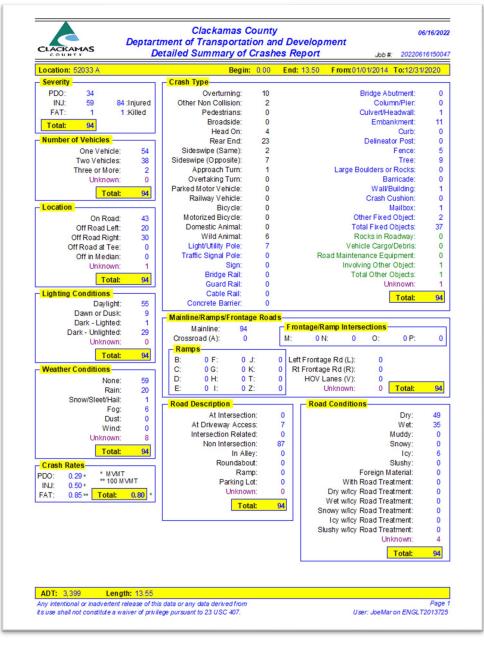




Beavercreek Road CC# 52033

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

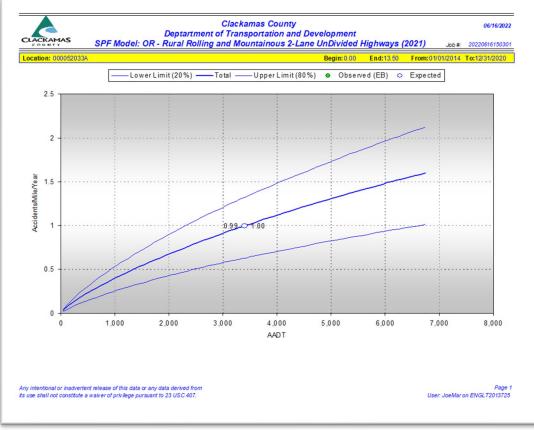
SUMMARY DETAIL REPORT – ALL CRASHES



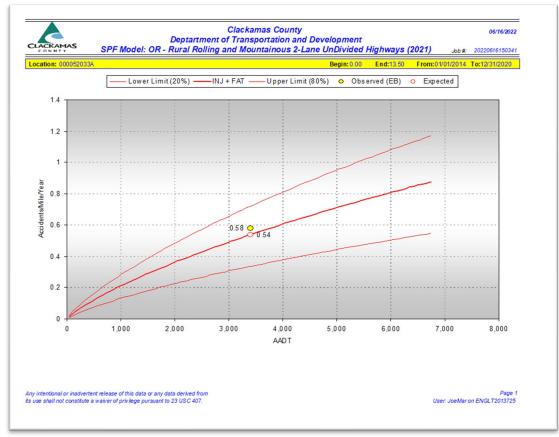
Passenger Car/Van wl Tri: 0 0 0 Pickup Truck/Utility Van: 0 0 0 Pickup Truck/Utility Van: 0 0 0 SUV: 0 0 0 0 SUV: 0 0 0 0 0 SUV: 0 0 0 0 0 0 Truck 10k lbs or Less: 1 0					on and Developn Crashes Report	len	Job	#: 2022	061615004
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	Total:	94	40	2					
	Total:	94	40	2					

SAFETY PERFORMANCE FUNCTION MODELS

ALL CRASHES



TOTAL



SEVERITY

DIRECT DIAGNOSTICS SUMMARY REPORT

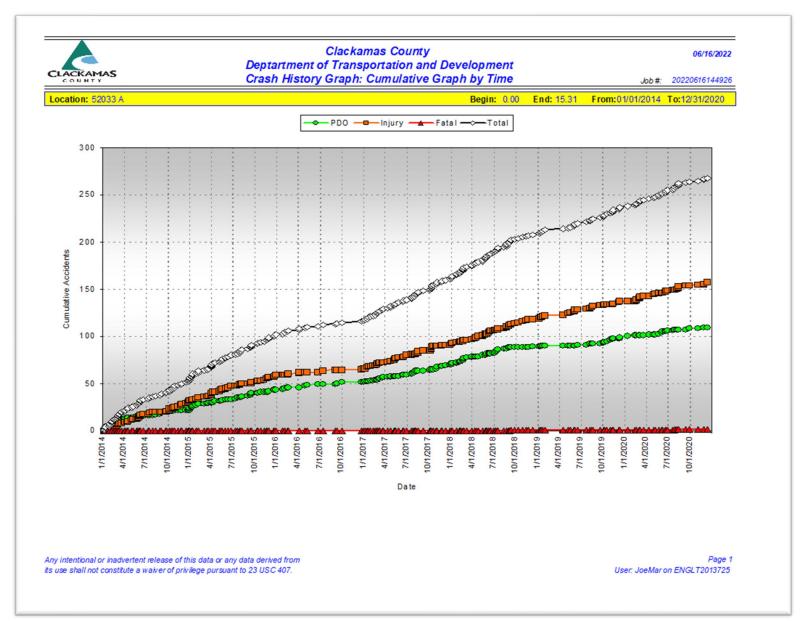
Deptartment of Trai	kamas Ci nsportati)evelopment		10/04/2022
Direct Diagnostic	s (Spot l	Location) Analysis	Job#:	20221004111826
.ocation File: DIRECT_DIAGNOSTICS_FOR_RTE5203	3A_00000_	01531	Cu	toff:	5 Acc's @ 95%
aseline Statistics	Statewide	Average	This Lo	ocation	Probability
CATEGORY	# Crashe	<u>s %</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

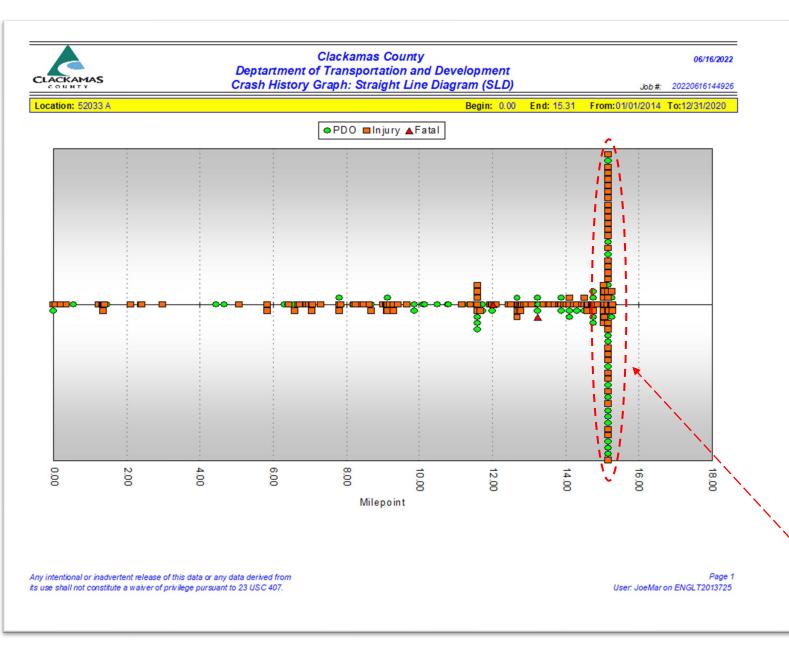
Highway Class: OR - Rural Rolling and Mountainous 2-Lane Undivided Highways - AADT All Totals (2021)

STRAIGHTLINE DIAGRAMS

ALL CRASHES

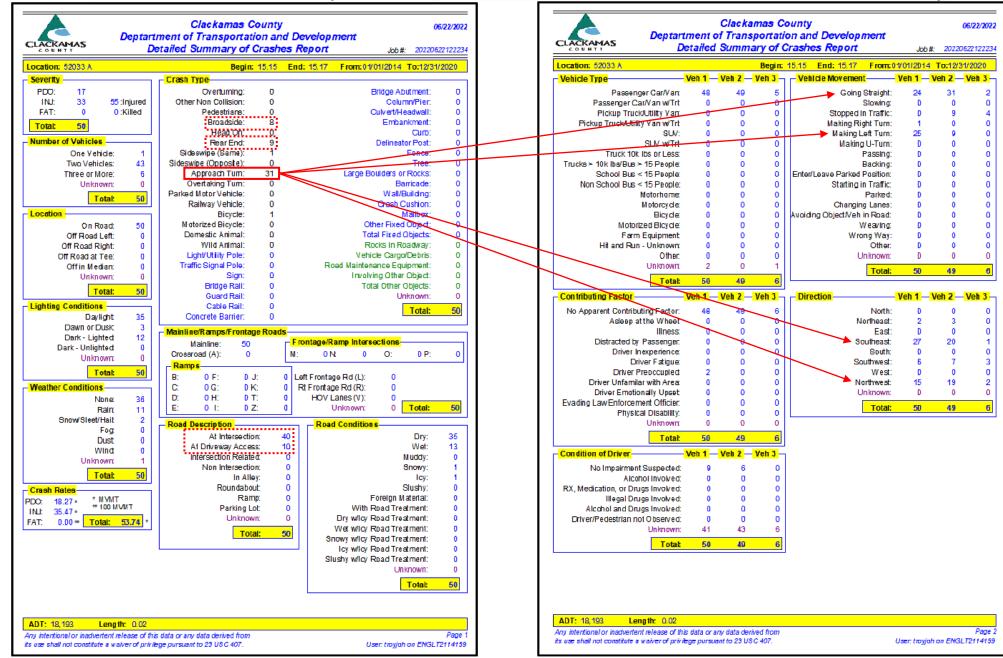


<u>STRAIGHTLINE DIAGRAMS</u> <u>All crashes – no filters applied</u>

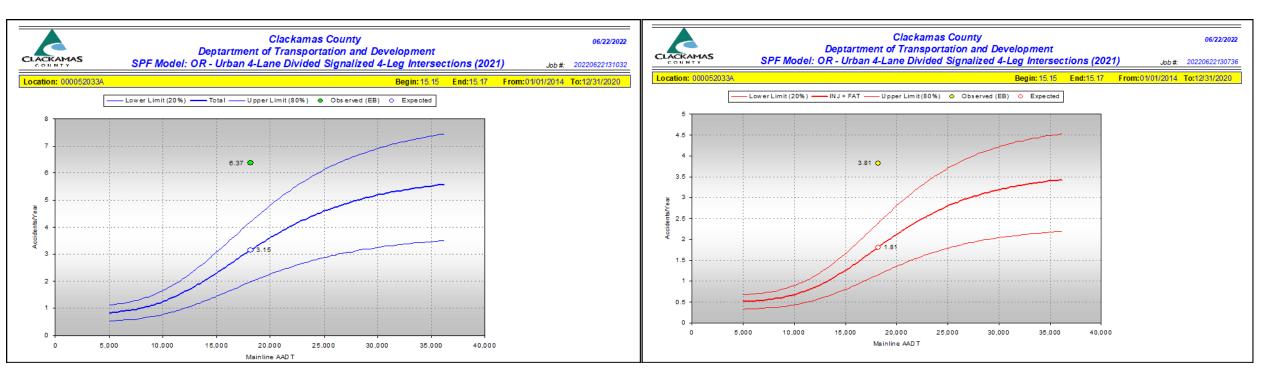


	0	0011210
No. 52	033	S BEAVERCREEK RD
	MAP 144-3	35L-SE
0.000	LEFT	UNION MILLS RD (42026)
0.000	RIGHT	OSH 211
0.010)	BCM
0.160	BRIDGE	#6198 - MEADOWBROOK
0.270	RIGHT	PVT HALLBACKA LN
0.330	LEFT	SALO RD (42016)
0.430	LEFT	ACCESS RD TO SALO RD
1.410	RIGHT	PVT VALLEY VISTA
2.310	RIGHT	NORRY CT (P3170)
3.240	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



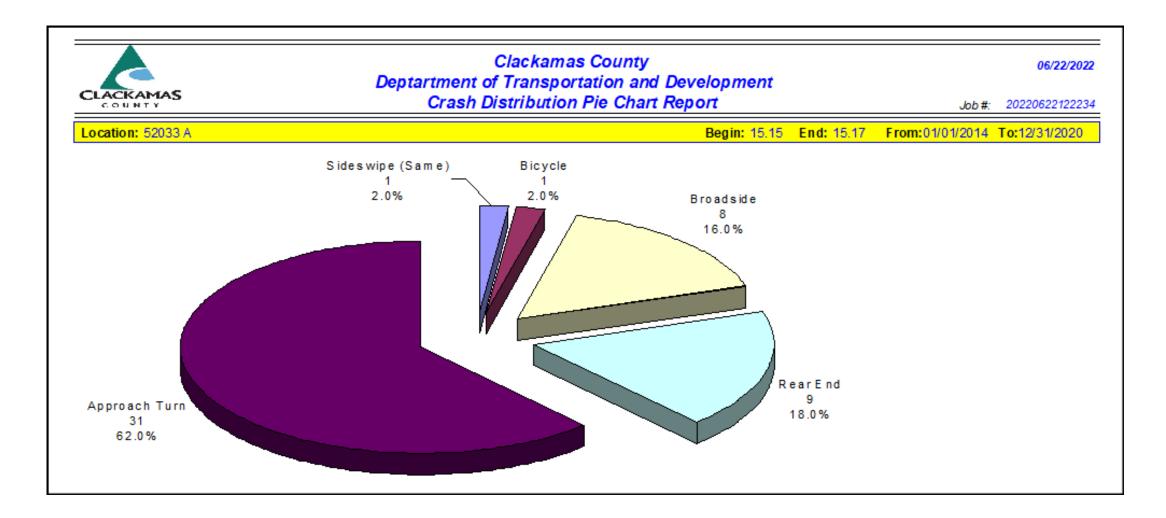
BEAVERCREEK @ MAPLELANE SAFETY PERFORMANCE FUNCTION MODELS



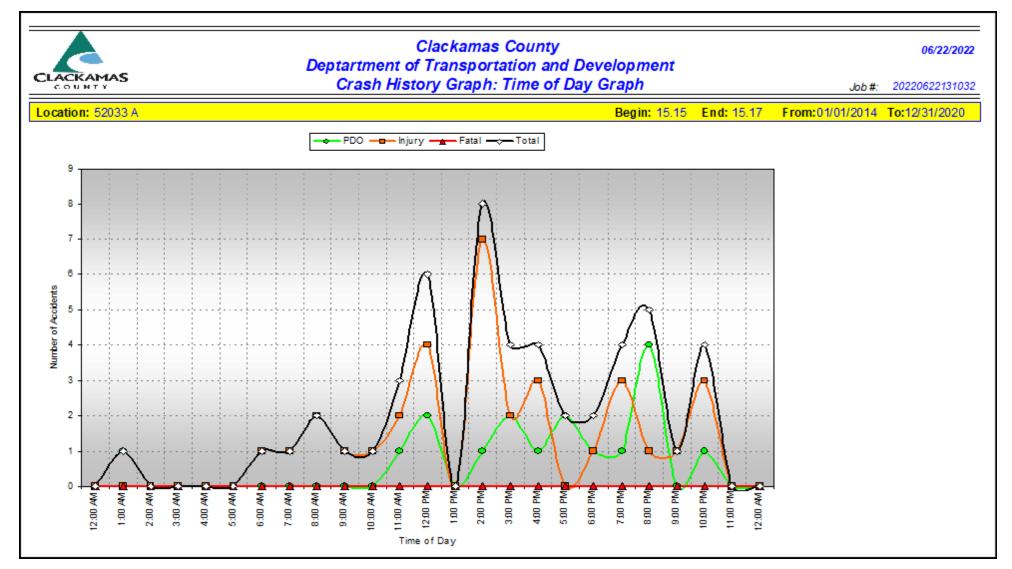
TOTAL

SEVERITY

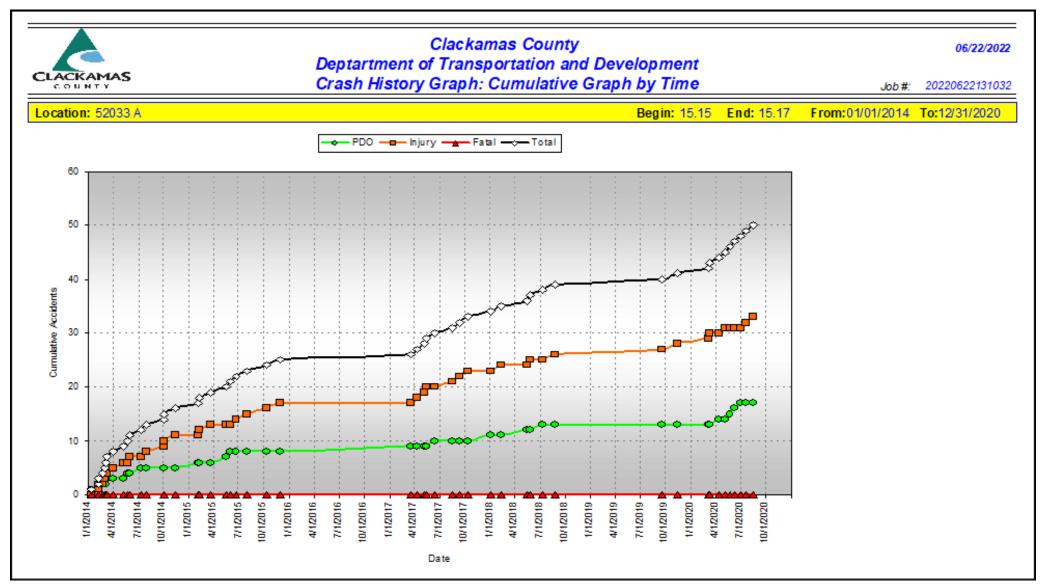
BEAVERCREEK @ MAPLELANE



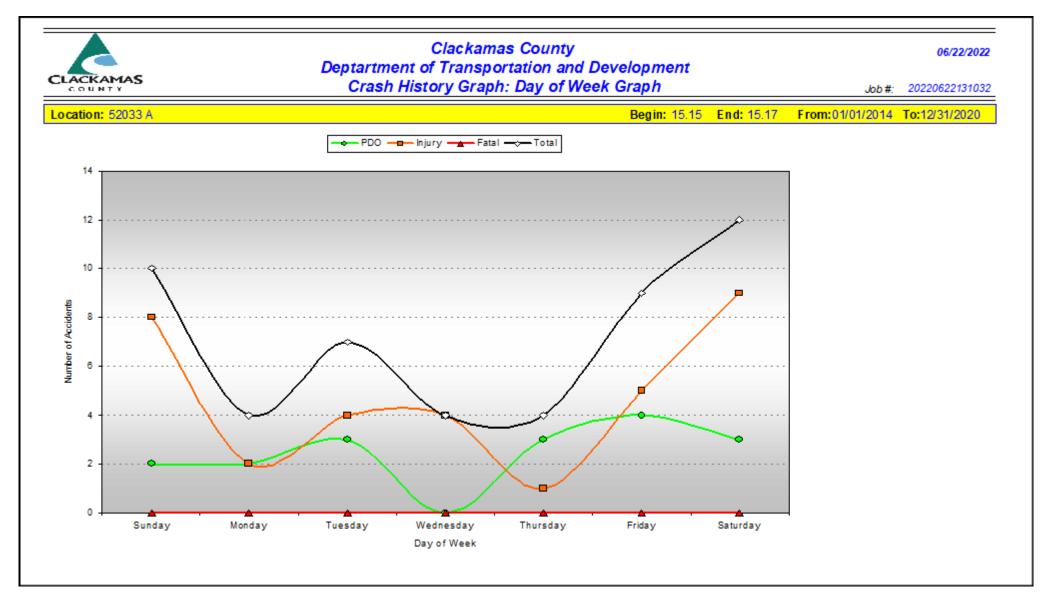
BEAVERCREEK @ MAPLELANE TIME OF DAY



BEAVERCREEK @ MAPLELANE CUMULATIVE BY TIME



BEAVERCREEK @ MAPLELANE DAY OF WEEK



CRASH PATTERNS / POSSIBLE ISSUES & TREATMENTS

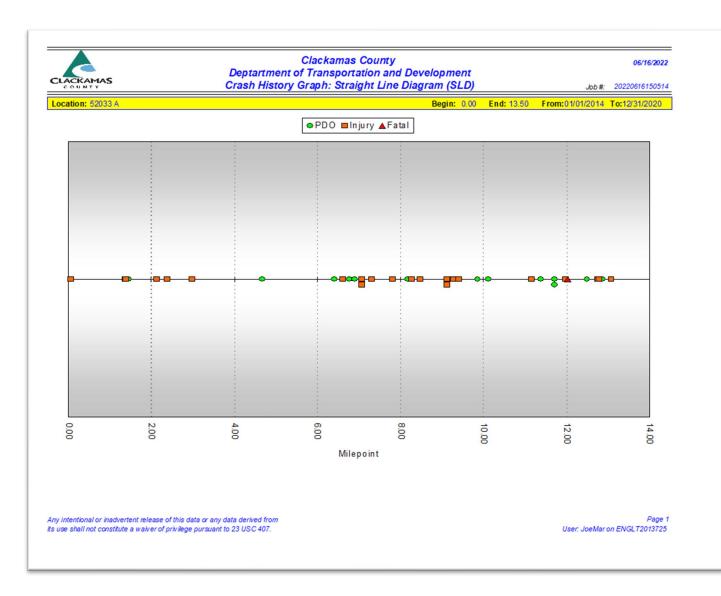
- Beavercreek / Maplelane (Broadside, Approach Turn crashes crash patterns heavy with opposing SEB left to Maplelane and NWB left to shopping center.
 - Flashing yellow arrow has been turned off permanently.
 - Intersection is skewed slightly this can limit the sight distance if cars are queued in the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

POTENTIAL PROJECTS BENEFIT/COST

1. Replace signal with roundabout at Beavercreek / Maplelane

			Econom	ic Anal	ysis Re	port	Joba	# : 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): 1.46	(B/C Based on In	jury Numb	ers : PDO	/Injured/Killed)			

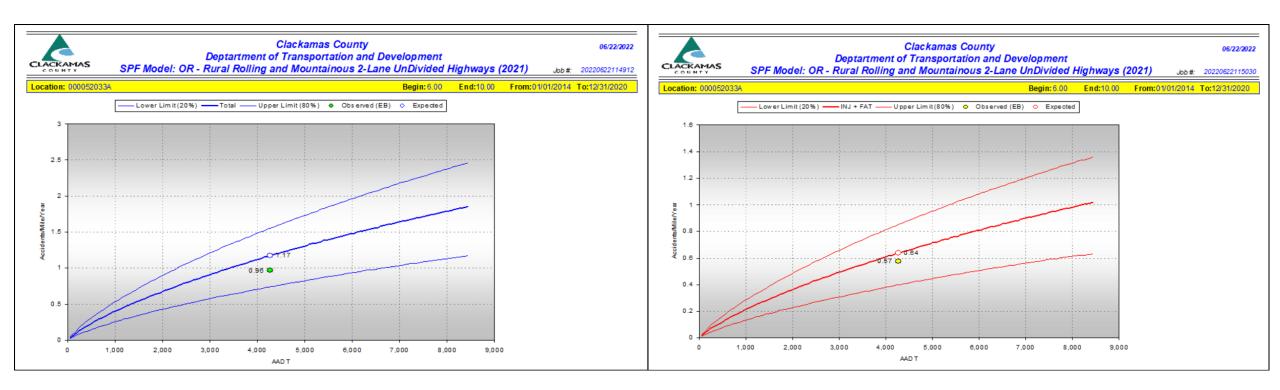
Fixed object crashes - ALL



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)



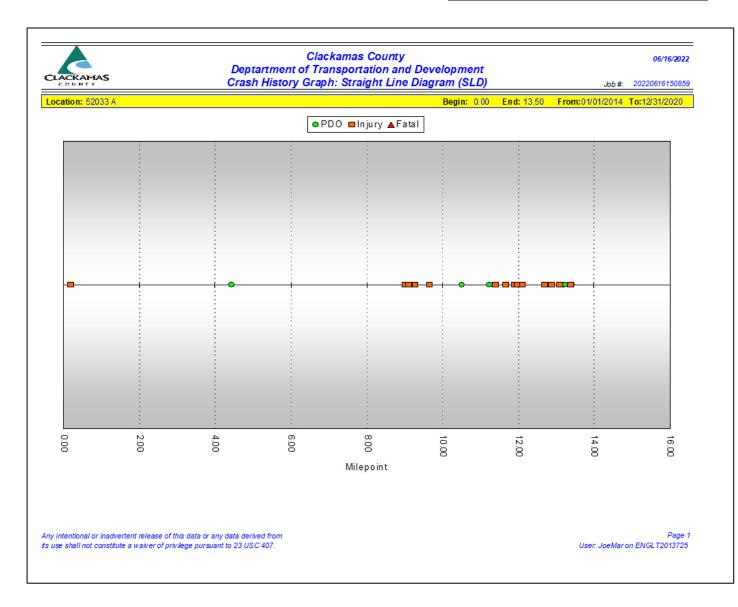
Fixed object crashes - segment hot spot

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
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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:	
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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:	
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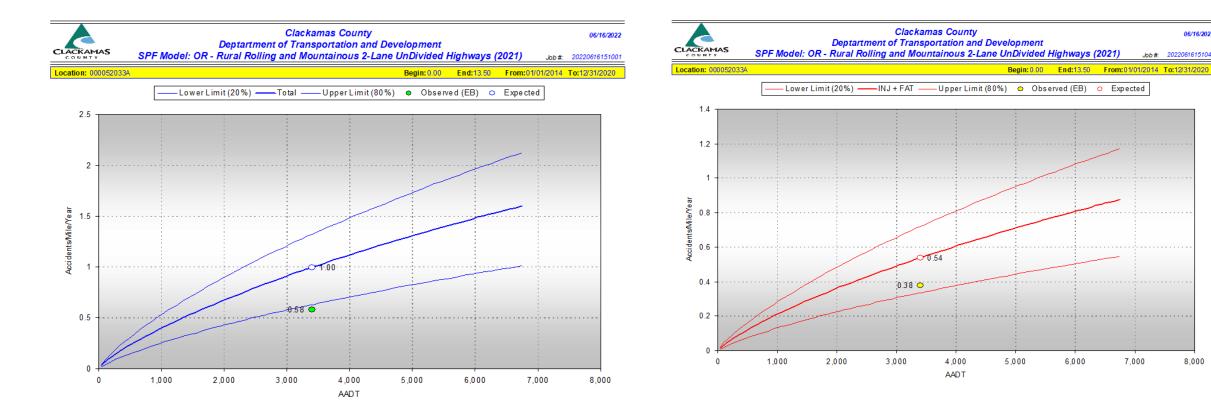
	eraneu	Jumm		Crashes Report			06221150
ocation: 52033 A	Mob 4	- Veh Z -	Begin:	6.00 End: 10.00 From: Vehicle Movement		4 To:12/3 - Ven Z -	
Passenger Car/Van Passenger Car/Van w/Trt	22 0	2	0	Going Straight: Slowing:	22	0	0
Pickup Truck/Utility Var	0	0	0	Stopped in Traffic:	0	1	
Pickup Truck/Utility Yan 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:	Z 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.

Page 1 User: JoeMar on ENGLT2013725

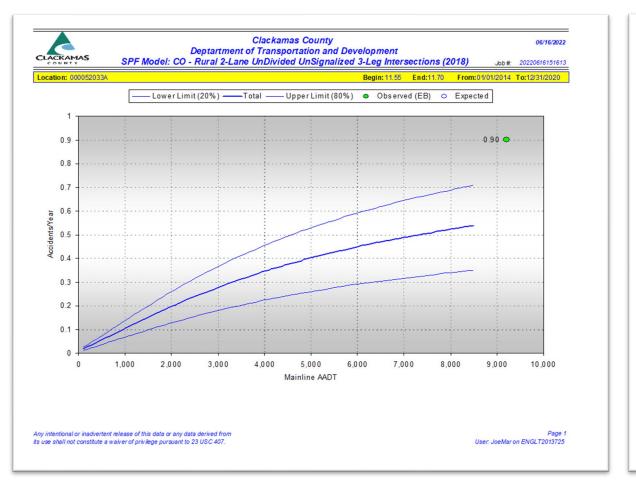
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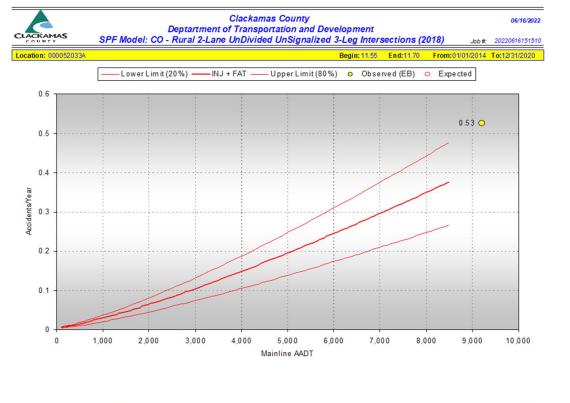
06/16/2022

Job #: 20220616151048

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Beavercreek/Kamrath/Leland Safety Performance Functions





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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						
Cable Rail: 0 Total: 10 Dayn or Dusk: 1 Cable Rail: 0 Total: 10 Dark - Lighted: 2 Dark - Lighted: 2 Dark - Lighted: 0 Mainline: 10 Frontage Roads Mice Network Mice Network Mice Network 0	Total: 10				101		
Daylight: 7 Dawn or Dusk: 1 100 100 100 Dark - Lighted: 0 Mainline!/Ramps/Frontage Roads Mainline: 0 Frontage/Ramp Intersections 0	Lighting Conditions						
Dawn or Dusk: 1 Dark - Lighted: 2 Dark - Lighted: 0 Unknown: 0 Total: 10 Weather Conditions 0 None: 7 Rains: 3 Snow/Sleet/Hali: 0 Fog: 0 Dust: 0 Unknown: 0 E: 0 F: 0 Z: None: 7 Rain: 3 Snow/Sleet/Hali: 0 Fog: 0 Dust: 0 Unknown: 0 Outhown: 0 Nonitif: 0 Bit: 0 F: 0 Z: Muintime/Ramps// Formage Rd (R): 0 How Lanes (V): 0 Outs: 0 Non intersection: 8 At Driveway Access: 0 Intersection: 8 At Driveway Access: 0 Non intersection: 0 Non intersection: 0 Nunday:						T	otal: 10
Dark - Lighted: 2 Dark - Unlighted: 0 Unknown: 0 Total: 10 Weather Conditions None: 7 None: 7 Ramps 0 Snow/Sleet/Hall: 0 Fog: 0 Dust: 0 Dust: 0 Dust: 0 Unknown: 0 Total: 10 Ramps 0 Snow/Sleet/Hall: 0 Fog: 0 Dust: 0 Unknown: 0 Minifies: 0 None: 7 Rains: 3 Snow/Sleet/Hall: 0 Fog: 0 Unknown: 0 Total: 10 Read Description 8 At Driveway Access: 0 Intersection: 8 At Driveway Access: 0 Non Intersection: 0 Roand Description 10 Ramp:							
Dark - Unlighted: 0 Mainline: 10 Fortage manage intersections Mainline: 10 Total: 0 M: 0 N: 0 <td></td> <td></td> <td></td> <td></td> <td>10 In to</td> <td></td> <td></td>					10 In to		
Construction Ramps Weather Conditions B: 0 F: 0 J: 0 C: 0 C							
Total: 10 Weather Conditions None: 7 None: 7 Rain: 3 Snow/Sleet/Hail: 0 Fog: 0 Unknown: 0 Unknown: 0 Total: 10 Crash Rates MVMT PDO: 0.85 * * MVMT INJ: 1.27 * Total: 2.12 * PO: 0.85 * * MVMT INJ: 1.27 * Total: 0 Parking Lot: 0 Wink: 0 Non Intersection: 0 Non Intersection: 0 Non Intersection: 0 Non Intersection: 0 Ramp: 0 Parking Lot: 0 Wth Road Treatment: 0 Dry w/lcy Road Treatment: 0 Unknown: 0 Total: 10	Unknown: 0		0	M:	0 N: 0	0:	0 P: 0
Weather Conditions B: 0 F: 0 J: 0 Left Frontage Rd (C): 0 None: 7 Rain: 3 0 RF frontage Rd (R): 0 HOV Lanes (V): 0 D: 0 H: 0 T: 0 RF frontage Rd (R): 0 HOV Lanes (V): 0 D: 0 H: 0 T: 0 Roundstown: 0 Total: 10 Fog: 0 Unknown: 0 Total: 2 0 Non intersection: 8 At Driveway Access: 0 Intersection Related: 2 Non Intersection: 8 At Driveway Access: 0 Intersection: 8 Nuddy: 0 Crash Rates PDO: 0.86* * MWMT Non Intersection: 0 Nuddy: 0 FAT: 0.00** Total: 2.12* * Total: 0 With Road Treatment: 0 Non Intersection: 0 Total: 0 With Road Treatment: 0 FAT:	Total: 10			_			
None: 7 Rain: 3 Snow/Sieet/Hail: D: 0 H: 0 T; 0 U HOV Lanes (V): 0 Unknown: 0 Total: 10 Fog: 0 1: 0 Z; 0 HOV Lanes (V): 0 Total: 10 Fog: 0 1: 0 Z; 0 HOV Lanes (V): 0 Total: 10 None: Fog: 0 1: 0 Z; 0 HOV Lanes (V): 0 Total: 10 Nonic: 0 Weit: 0 Total: 2 Non Intersection: 8 Nuddy: 0 Nuddy: 0 Nuddy: 0 Nuddy: 0 Nuddy: 0 Snowy: 0 Snowy: 0 Snowy: 0 Snowy: 0 Snowy: 0 Vitik Road Treatment: 0 Witik Road Treatment: 0 Not Nitic Road Treatment: 0 Not							
Rain: 3 Snow/Sleet/Hall: 0 Dust: 0 Wind: 0 Unknown: 0 E: 0 1: 0 Z: 0 Unknown: 0 Total: 10 Road Description Unknown: 0 Unknown: 0 At Intersection: 8 At Driveway Access: 0 Intersection Related: 2 Non Intersection: 0 In Alley: 0 Roundabout: 0 FAT: 0.00** At Intersection: 8 At Driveway Access: 0 Intersection Related: 2 Non Intersection: 0 In Alley: 0 Roundabout: 0 Parking Lot: 0 Unknown: 0 Road Conditions • Crash Rates POC: 0.85 * * MVMT FAT: 0.00** • MVMT Total: 2.12* Non Intersection: 0 In Alley: 0 Roundabout: 0 Parking Lot: 0 Unknown: 0 Muddy: 0 Sushy: 0 Poreign Material: 0 Wth Road Treatment: 0 Dry w/lcy Road Treatment: 0 Snowy w/lcy Road Treatment: 0 I cy w/lcy Road Treatment: 0 Unknown: 0							
Snow/Sleet/Hall: 0 Fog: 0 Dust: 0 Wind: 0 Unknown: 0 Crash Rates PDO: 0.85* * MVMT INJ: 1.27* **100 MVMT FAT: 0.00** Total: 2.12*							otal: 10
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Dust: 0 Wind: 0 Unknown: 0 At Intersection: 8 At Driveway Access: 0 Intersection Related: 2 Non Intersection: 0 In Alley: 0 Roundabout: 0 INJ: 1.27* **100 MVMT FAT: 0.00* Total: 2.12* Muddy: 0 Nuldy: 0 Intersection: 0 In Alley: 0 Roundabout: 0 Roundabout: 0 Unknown: 0 • Crash Rates PDO: 0.85* ** MVMT FAT: 0.00** Total: 2.12* **100 MVMT Total: 10 O Non Intersection: 0 In Alley: 0 Roundabout: 0 Unknown: 0 Muddy: 0 Non Intersection: 0 In Alley: 0 Non Intersection: 0 In Alley: 0 Roundabout: 0 Unknown: 0					bad Condition		
Unknown: 0 Intersection Related: 2 Non Intersection: 0 In Alley: 0 In Alley: 0 PDO: 0.85 * * 100 MVMT 0 INJ: 1.27 * * 100 MVMT 0 FAT: 0.00 ** Total: 2.12 *							
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		
FAT: 0.00 ** Total: 2.12 * Unknown: 0 Total: 10 10 Wet wilcy Road Treatment: 0 Snowy wilcy Road Treatment: 0 Snowy wilcy Road Treatment: 0 Unknown: 0 It wilcy Road Treatment: 0 Slushy wilcy Road Treatment: 0 0 Unknown: 0 0 0 Total: 10 10	100. 0.00 HI ANT						
Total: 10 Wet w/lcy Road Treatment: 0 Showy w/lcy Road Treatment: 0 Icy w/lcy Road Treatment: 0 Slushy w/lcy Road Treatment: 0 Unknown: 0 Total: 10		Uni	nown:	0	Dry w/lcy I	Road Treatm	
Snowy w/lcy Road Treatment: 0 Icy w/lcy Road Treatment: 0 Siushy w/lcy Road Treatment: 0 Unknown: 0 Totat: 10			Total:	10			
Slushy w/lcy Road Treatment: 0 Unknown: 0 Total: 10			- otun	<u> </u>			
Unknown: 0 Total: 10		L					
Total: 10					Siusny w/lcy l		
						To	tal: 10
	ADT: 9,208 Length: 0,20						

- Veh 2 - 10 0 0 0 0 0 0 0 0 0 0 0 0 0	Begin: Veh 3 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehicle Movement Going Straight: Slowing: Stopped in Traffic: Making Right Turn: Making U-Turn: Passing: Backing: Enter/Leave Parked Position: Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:		4 To:12/	061615161 31/2020 - Veh 3 - 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ven 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehicle Movement Going Straight: Slowing: Stopped in Traffic: Making Right Turn: Making U-Turn: Passing: Backing: Enter/Leave Parked Position: Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	Veh 1 – 6 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- Veh 2 - 7 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- Veh 3 - 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Slowing: Stopped in Traffic: Making Right Turn: Making Left Turn: Passing: Parked Position: Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Slowing: Stopped in Traffic: Making Right Turn: Making Left Turn: Passing: Parked Position: Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	Making Right Turn: Making Left Turn: Making U-Turn: Passing: Backing: Enter/Leave Parked Position: Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	0 4 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	Making Left Turn: Making U-Turn: Passing: Backing: Enter/Leave Parked Position: Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road; Weaving: Wrong Way; Other: Unknown:	4 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Making U-Turn: Passing: Backing: Enter/Leave Parked Position: Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0 0 0 0 0 0 0	Passing: Backing: Enter/Leave Parked Position: Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0 0 0 0 0 0	Backing: Enter/Leave Parked Position: Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0 0 0 0	Enter/Leave Parked Position: Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0 0 0	Starting in Traffic: Parked: Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	0 0 0 0 0 0	0 0 0 0	0 0 0 0
0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0	Parked: Changing Lanes: Avoiding Object/Veh in Road: Wrong Way: Other: Unknown:	0 0 0 0 0	0 0 0 0	0 0 0
0 0 0 0 0 0 10	0 0 0 0 0 0	Changing Lanes: Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	0 0 0 0	0 0 0	0 0 0
0 0 0 0 0 10	0 0 0 0 0	Avoiding Object/Veh in Road: Weaving: Wrong Way: Other: Unknown:	0 0 0	0 0	0
0 0 0 0 10	0 0 0 0	Wrong Way: Other: Unknown:	0	0	
0 0 0 10	0 0 0	Other: Unknown:	0		0
0 0 10	0 0	Unknown:		0	
0 10	0		0		0
10			0	0	0
		Total:	10	10	1
	1				
Veh 2	- Veh 3	Direction	Veh 1	Veh 2 -	Veh 3 -
10	1	North:	1	1	1
0	0	Northeast:	0	0	0
					0
					0
					0
					ŏ
0	0	Northwest:	0	0	0
0	0	Unknown:	0	0	0
		Total	10	10	1
		1000	10	10	
ő					
9	1				
40	1				
	0 0 0 10 - Veh 2 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 Southeast: 0 0 0 0 0 Vest: 0 0 0 0 0 0 0 0 0 10 1 Veb 2 Veb 3 1 0 0 0 0 0 1 0 1 0 0 0 0 0 1 0 1	0 0 0 0 0 0 10 1 Veh 2 - Veh 3 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 10 1 Veh 2 - Veh 3 1 0 0 0 0 0 0 0 0 1 0 1 Veh 2 - Veh 3 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0

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	10/28 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				