DOCKETED			
Docket Number:	23-OPT-01		
Project Title:	Fountain Wind Project		
TN #: 251463			
Document Title:	Fountain Wind Traffic Study_07282023_pt2		
Description:	N/A		
Filer:	Caitlin Barns		
Organization:	Stantec Consulting Services, Inc.		
Submitter Role:	Applicant Consultant		
Submission Date:	8/2/2023 11:09:20 AM		
Docketed Date:	8/2/2023		



Burney Express is provided by the County of Shasta and operated by RABA. This service is outside of the RABA Service Area.

Route and Stops

Burney Express mostly travels on SR 299, connecting Burney on the east to Redding on the west.

Burney Express stops include:

- Burney (@ Burney Sporting Goods)
- · Montgomery Creek (@ Montgomery Creek Library)
- · Round Mountain (@ Round Mountain Store/Cafe)
- Bella Vista (@ My-T Fine Foods)
- Shasta College
- · Redding (@ Downtown Transit Center)

Schedule

Burney Express provides three trips in each direction during the weekdays.

WESTBOUND											
	Burney	Montg Creek	Round Mtn	Bella Vista	Shasta College	Redding					
1st Trip	5:50 am	6:15 am	6:25 am	6:55 am	7:05 am	7:15 am					
2nd Trip	11:50 am	12:15 pm	12:25 pm	12:55 pm	1:05 pm	1:15 pm					
3rd Trip	3:50 pm	4:15 pm	4:25 pm	4:55 pm	5:05 pm	5:15 pm					

EASTBOUND											
	Redding	Shasta College	Bella Vista	Round Mtn	Montg Creek	Burney					
1st Trip	10:25 am	10:35 am	10:45 am	11:15 am	11:25 am	11:50 am					
2nd Trip	2:25 pm	2:35 pm	2:45 pm	3:15 pm	3:25 pm	3:50 pm					
3rd Trip	5:35 pm	5:45 pm	5:55 pm	6:25 pm	6:35 pm	7:00 pm					

There is no service on the weekends.

There is no service on the following holidays:

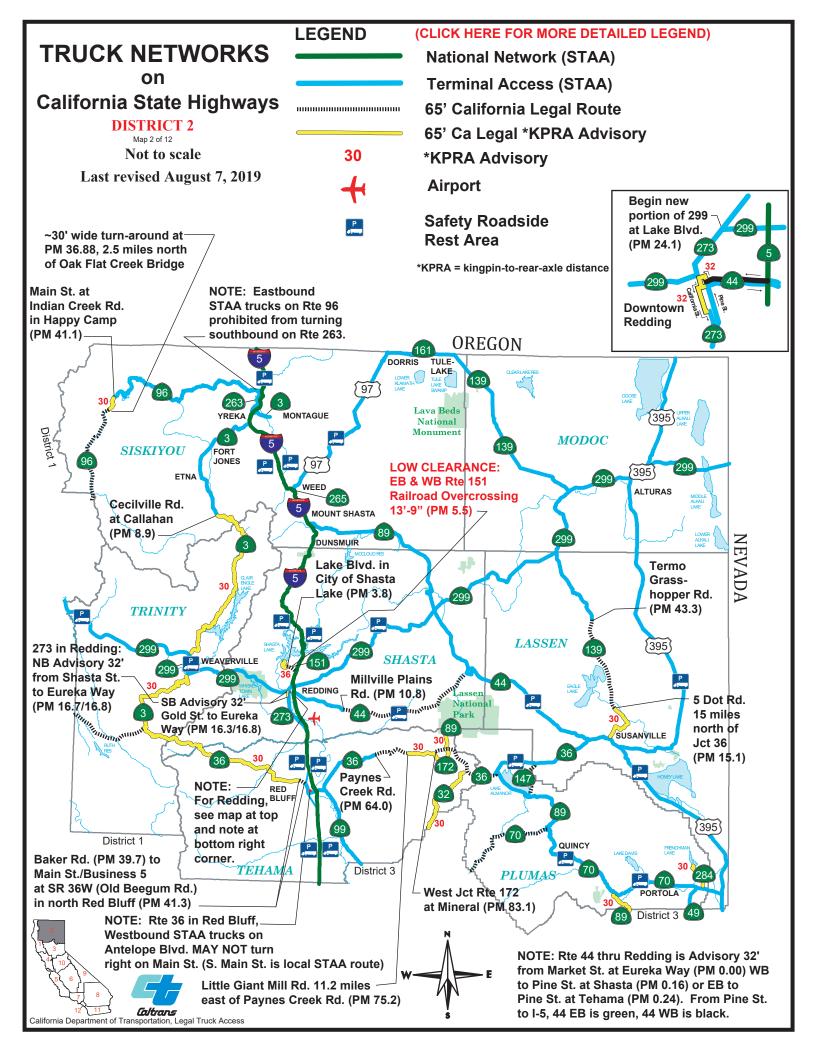
 New Year's Day (January 1st), Memorial Day (last Monday of May), Independence Day (July 4th), Labor Day (first Monday of September), Thanksgiving Day (fourth Thursday of November), or Christmas Day (December 25th).

Fares

FROM	TO								
	Shasta College/ Bella Vista	Round Mtn/ Montg Creek	Burney	Redding					
Redding	\$2.00	\$3.50	\$5.00						
Burney	\$3.50	\$2.00	155	\$5.00					

Additional Resources

Rural Transit in Shasta County



TRUCK MAP LEGEND TRUCK LENGTHS & ROUTES



STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Click here for the Truck Network Map

CALIFORNIA LEGAL ROUTES California Legal trucks (black trucks) can travel on STAA routes (green and blue routes), CA Legal routes (black routes), and Advisory routes (yellow routes). CA Legal trucks have access to the entire State highway system except where prohibited (some red routes).



California Legal Truck Tractor - Semitrailer

Semitrailer length: no limit

KPRA* : 40 feet maximum for two or more axles,

38 feet maximum for single-axle trailers

Overall length : 65 feet maximum *(KPRA = kingpin-to-rear-axle)



California Legal Truck Tractor - Semitrailer - Trailer (Doubles)

Option A

Trailer length: 28 feet 6 inches maximum (each trailer)

Overall length: 75 feet maximum

Option B

Trailer length: one trailer 28 feet 6 inches maximum

other trailer may be longer than 28 feet 6 inches

Overall length: 65 feet maximum



CA LEGAL ADVISORY ROUTES - CA Legal trucks only; however, *travel not advised* if KPRA length is over posted value. KPRA advisories range from 30 to 38 feet.

STAA ROUTES The STAA Network allows the "interstate" STAA trucks which are the green trucks shown below. The STAA Network consists of the National Network (green routes, primarily interstates) and Terminal Access routes (blue, primarily State routes). ("STAA" = federal Surface Transportation Assistance Act of 1982.)

(Click here for the Truck Network Map.)







Interstate "STAA" Truck Tractor - Semitrailer

Semitrailer length: 48 feet maximum

KPRA* : no limit

Overall length : no limit *(KPRA = kingpin-to-rear-axle)

Semitrailer length : over 48 feet up to 53 feet maximum KPRA : 40 feet maximum for two or more axles.

38 feet maximum for single-axle trailers

Overall length : no limit

<u>Interstate "STAA" Truck Tractor - Semitrailer - Trailer (Doubles)</u>

Trailer length : 28 feet 6 inches maximum (each trailer)

Overall length: no limit



Terminal Access - Interstate "STAA" trucks may travel on State highways that exhibit this sign.



Service Access - Interstate "STAA" trucks may travel up to one road mile from the off ramp to obtain services (food, fuel, lodging, repairs), provided the route displays this sign.

SPECIAL RESTRICTIONS - Route restricted for vehicle length or weight, cargo type, or number of axles. Click here for the list of Special Route Restrictions.

CalTrans Traffic Census Program 2020 Annual Average Daily Traffic (AADT) Volumes

DISTRICT	ROUTE	RTE_SFX COUNTY	PM_PFX	X DESCRIPTION σ L	BACK_PEAK_HOUR	BACK_PEAK_MADT	BACK_AADT	AHEAD_PEAK_HOUI	AHEAD_PEAK_MAD	AHEAD_AADT
02	299	SHA	24.822	REDDING, JCT. RTE. 5				2200	22500	18800
02	299	SHA	25.540	HAWLEY ROAD	2200	22500	18800	1150	12500	10800
02	299	SHA	27.239	OLD OREGON TRAIL	1150	12500	10800	950	10500	9500
02	299	SHA	31.460	DESCHUTES ROAD	910	8200	7700	520	6000	4750
02	299	SHA	53.263	TERRY MILL ROAD	260	4850	3900	260	4900	3950
02	299	SHA	60.050	BIG BEND ROAD	270	4400	3550	270	4150	3350
02	299	SHA	73.130	TAMARACK ROAD	400	4450	3150	400	4450	3150
02	299	SHA	74.480	ELM ST	370	4050	2400	360	4200	3600
02	299	SHA	74.980	BURNEY, PLUMAS ST	360	4200	3600	870	9600	8200

CalTrans Traffic Census Program 2020 Truck Volumes and Percentages

RTE	RIE_SFX DIST	POSTMILE_PFX	POSTMILE	POSTMILE_SFX	LEG	DESCRIPTION	VEHICLE_AADT_TOTA	TRUCK_AADT_TOTAL	TRK_PERCENT_TOT	TRK_2_AXLE	TRK_3_AXLE	TRK_4_AXLE	TRK_5_AXLE	TRK_2_AXLE_PCT	TRK_3_AXLE_PCT	TRK_4_AXLE_PCT	TRK_5_AXLE_PCT	EAL	EST
299	02 SH	A	24.822		Α	REDDING, JCT. RTE. 5	18800	890	4.73	552	94	11	233	62.02	10.56	1.24	26.18	110 20) V
299	02 SH	Α	25.540		Α	HAWLEY ROAD	10800	406	3.76	69	84	19	234	17.07	20.73	4.63	57.56	94 10	3 E
299	02 SH	Α	27.239		Α	OLD OREGON TRAIL	9500	357	3.76	81	47	10	219	22.66	13.29	2.72	61.33	84 10	3 E
299	02 SH	Α	60.050		В	BIG BEND ROAD	3550	529	14.90	93	76	13	347	17.59	14.35	2.55	65.51	132 10	6 E
299	02 SH	Α	72.640		0	HAYNES ROAD	3150	615	19.52	168	159	3	285	27.32	25.85	0.49	46.34	119 19) V
299	02 SH	Α	73.130		Α	TAMARACK ROAD	3150	551	17.49	197	83	5	266	35.75	15.06	0.91	48.28	107 20) V
299	02 SH	Α	74.980		В	BURNEY, PLUMAS STREET	3600	684	19.00	259	104	9	312	37.87	15.20	1.32	45.61	128 20) E

Elevations At Locations of Interest Along CA-299E



	Fountain Wind Project									
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Average Section Average Slope					
Between I-5 and Hawley Road	24.9 - 25.5	0.6	641	628	-0.41					

Elevations At Locations of Interest Along CA-299E

Mile Post 27.2 Elevation 621 ft



Mile Post 25.5 Elevation 628 ft

	Fountain Wind Project									
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Section Average Slope					
Between Hawley Road and Old Oregon Trail	25.5 - 27.2	1.7	628	621	0.1					



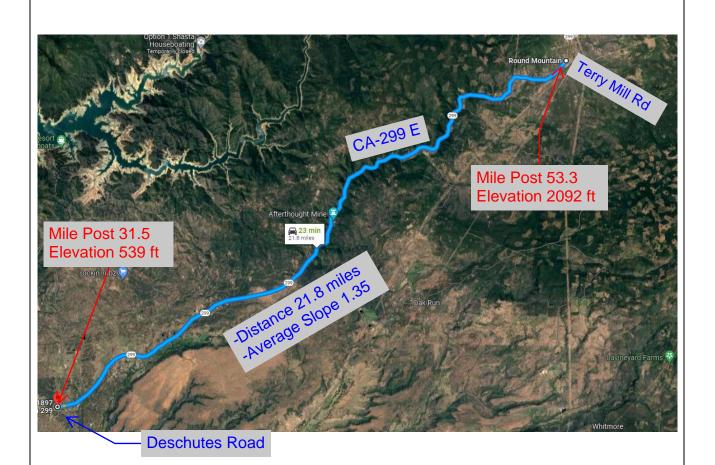
Elevations At Locations of Interest Along CA-299E

Mile Post 31.5 Elevation 539 ft



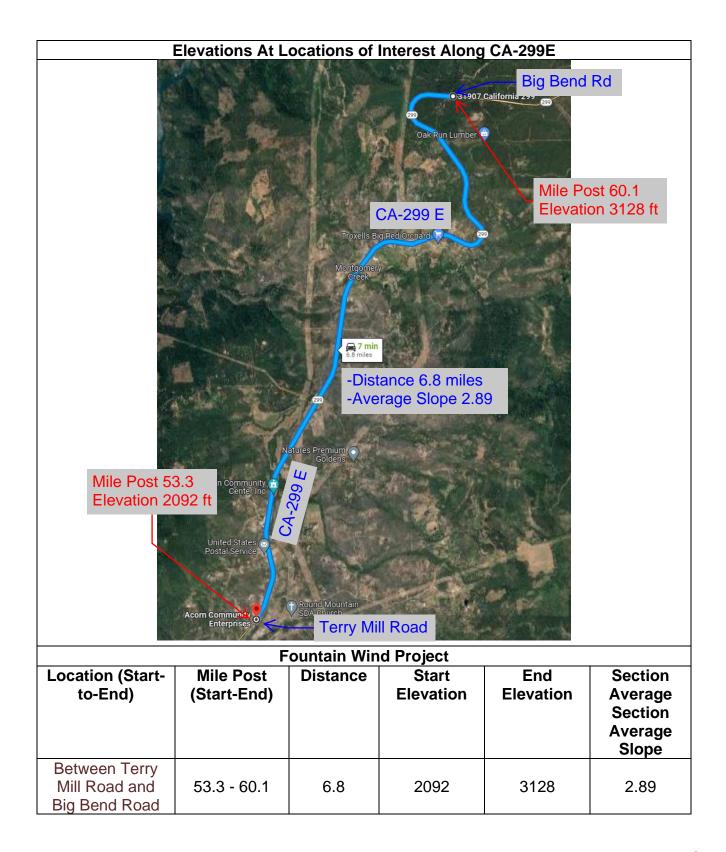
	Fountain Wind Project										
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Section Average Section Average Slope						
Between Old Trail and Deschutes Road	27.2 - 31.5	4.3	621	539	-0.36						

Elevations At Locations of Interest Along CA-299E

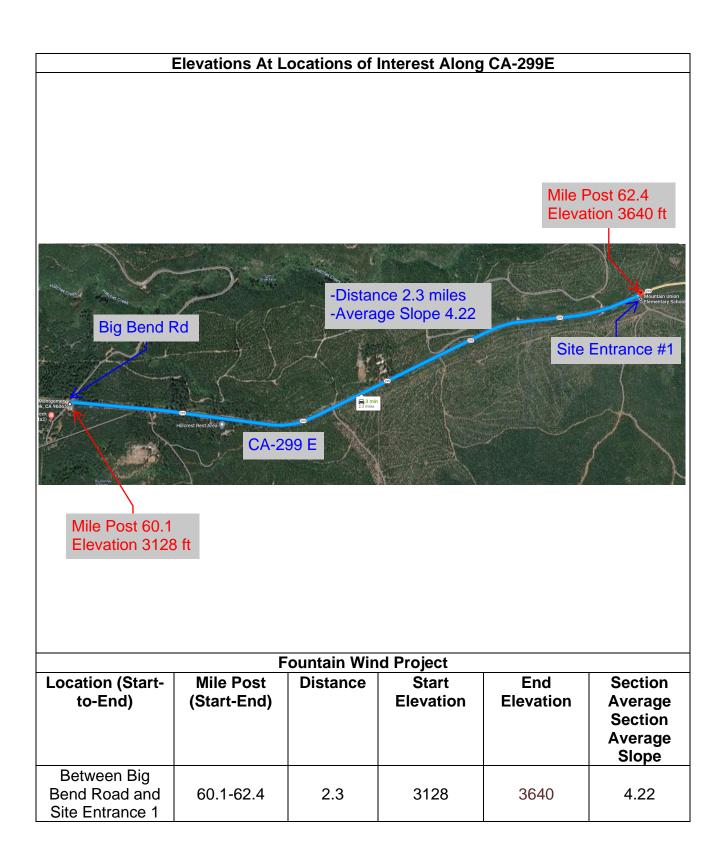


Fountain Wind Project Location (Start-Mile Post **Distance** Start End Section **Elevation Elevation** to-End) (Start-End) **Average** Section **Average** Slope Between 31.5 - 53.3 21.8 **Deschutes Road** 539 2092 1.35 and Terry Mill Road









Elevations At Locations of Interest Along CA-299E

Mile Post 62.4 Elevation 3640 ft



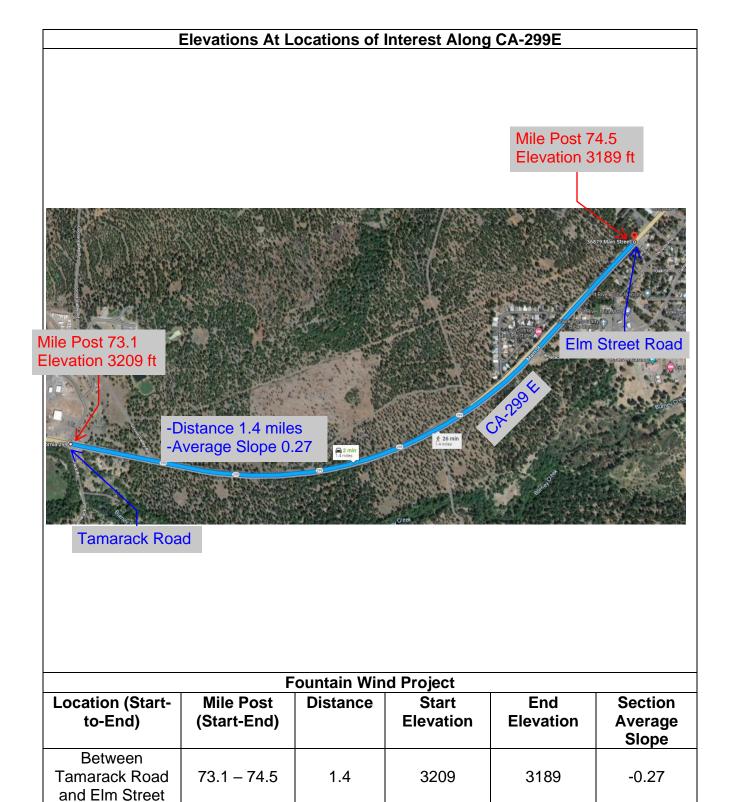
Site Entrance #2

	Fountain Wind Project									
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Section Average Slope					
Between Site Entrance 1 and Site Entrance 2	62.4-67.3	4.9	3640	4215	2.22					

Elevations At Locations of Interest Along CA-299E

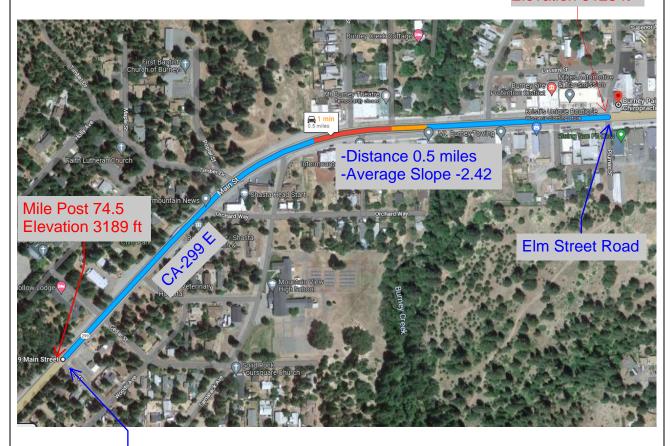


	Fountain Wind Project									
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Section Average Slope					
Between Site Entrance 2 and Tamarack Road	67.3 – 73.1	5.8	4215	3209	-3.29					



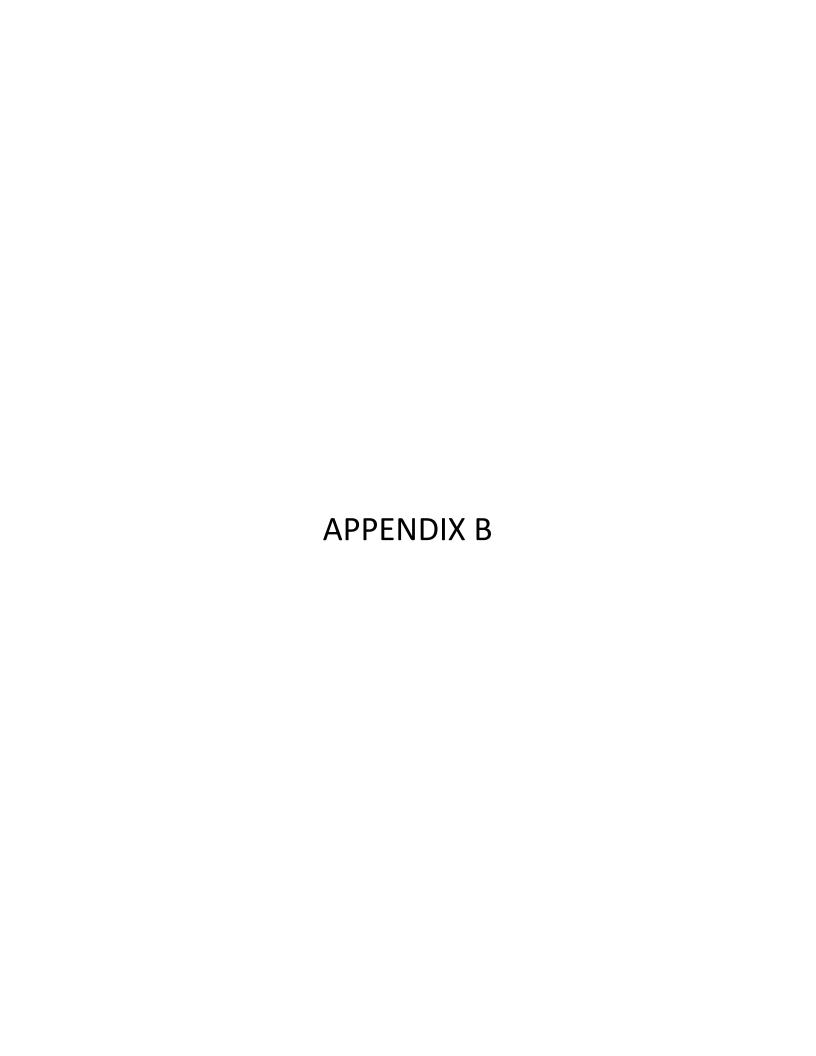
Elevations At Locations of Interest Along CA-299E

Mile Post 75.0 Elevation 3125 ft



Elm Street Road

	Fountain Wind Project									
Location (Start- to-End)	Mile Post (Start-End)	Distance	Start Elevation	End Elevation	Section Average Slope					
Between Elm Street Plumas Street (Burney)	74.5 – 75.0	0.5	3189	3125	-2.42					



SPECIFIC LOCATION:

QC JOB #: 16124307 **DIRECTION: EB**

CITY/STATE:																DATE: Ap	
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	0	0	1	1	5	1	0	0	0	0	0	0	8	39-48	6
01:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	41-50	1
02:00 AM	0	0	0	0	0	2	0	1	0	0	0	0	0	0	3	31-40	2
03:00 AM	0	0	0	0	0	0	1	0	2	0	0	0	0	0	3	46-55	2
04:00 AM	1	0	0	0	1	1	3	0	3	0	0	0	0	0	9	36-45	4
05:00 AM	2	0	1	1	3	3	11	5	1	0	0	0	0	0	27	41-50	16
06:00 AM	0	0	0	1	1	6	22	8	7	2	0	0	0	0	47	41-50	30
07:00 AM	3	0	4	1	3	9	36	23	1	1	0	0	0	0	81	41-50	59
08:00 AM	0	0	0	0	4	10	28	22	5	0	0	0	0	0	69	41-50	50
09:00 AM	3	0	0	3	6	6	31	24	11	1	0	0	0	0	85	41-50	55
10:00 AM	6	0	0	11	2	3	22	24	11	0	0	0	0	0	79	41-50	46
11:00 AM	0	0	0	6	8	9	14	27	13	2	0	0	0	0	79	41-50	41
12:00 PM	5	0	0	5	7	4	27	23	7	4	0	0	0	0	82	41-50	50
01:00 PM	3	0	0	2	2	12	19	26	14	1	0	0	0	0	79	41-50	45
02:00 PM	2	0	0	0	5	8	22	30	14	2	0	1	0	0	84	41-50	52
03:00 PM	4	0	0	4	6	2	23	33	12	5	2	0	0	0	91	41-50	56
04:00 PM	1	0	0	2	0	6	51	42	22	4	1	0	0	0	129	41-50	93
05:00 PM	0	0	0	0	0	4	16	47	17	3	0	0	0	0	87	46-55	64
06:00 PM	1	0	0	0	5	10	13	18	22	0	0	0	0	0	69	46-55	40
07:00 PM	0	0	0	0	0	5	9	10	11	2	0	0	0	0	37	46-55	21
08:00 PM	0	0	0	0	1	6	14	11	0	0	0	0	0	0	32	41-50	25
09:00 PM	0	0	2	0	2	4	13	4	2	1	1	0	0	0	29	41-50	17
10:00 PM	0	0	0	0	0	1	3	3	2	1	0	0	0	0	10	41-50	6
11:00 PM	0	0	0	0	0	2	1	1	2	1	0	0	0	0	7	36-45	3
Day Total	31	0	7	36	57	114	384	384	179	30	4	1	0	0			
Percent	2.5%	0%	0.6%	2.9%	4.6%	9.3%	31.3%	31.3%	14.6%	2.4%	0.3%	0.1%	0%	0%	1227	41-50	768
AM Peak Volume	10:00 AM 6	12:00 AM 0	7:00 AM 4	10:00 AM 11	11:00 AM 8	8:00 AM 10	7:00 AM 36	11:00 AM 27	11:00 AM 13	6:00 AM 2	12:00 AM 0	12:00 AM 0	12:00 AM 0	12:00 AM 0	9:00 AM 85		
PM Peak Volume	12:00 PM 5	12:00 PM 0	9:00 PM 2	12:00 PM 5	12:00 PM 7	1:00 PM 12	4:00 PM 51	5:00 PM 47	4:00 PM 22	3:00 PM 5	3:00 PM 2	2:00 PM 1	12:00 PM 0	12:00 PM 0	4:00 PM 129		

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

OATE: Apr 5 202

CITY/STATE:	Shasta,	CA														DATE: Ap	or 5 202
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
otait iiiie	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 ace speed	in Pac
12:00 AM	0	0	4	0	0	0	1	1	0	0	0	0	0	0	6	16-25	4
01:00 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	26-35	1
02:00 AM	0	0	0	0	0	1	3	0	1	1	0	0	0	0	6	36-45	4
03:00 AM	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	41-50	3
04:00 AM	0	0	0	0	0	0	5	2	2	0	0	0	0	0	9	41-50	7
05:00 AM	2	0	0	0	1	3	5	8	2	2	1	0	0	0	24	41-50	13
06:00 AM	1	0	0	0	5	11	12	13	7	0	0	0	0	0	49	41-50	25
07:00 AM	1	0	1	5	3	6	22	21	8	1	0	0	0	0	68	41-50	43
08:00 AM	5	0	1	3	8	14	19	15	14	2	1	0	0	0	82	41-50	34
09:00 AM	2	0	0	4	7	3	20	34	8	2	0	0	0	0	80	41-50	54
10:00 AM	2	0	0	4	3	10	25	32	12	2	1	0	0	0	91	41-50	57
11:00 AM	3	0	1	3	2	14	20	17	14	2	0	0	0	0	76	41-50	37
12:00 PM	1	0	2	1	5	4	17	31	8	3	0	0	0	0	72	41-50	48
01:00 PM	4	0	0	0	1	5	26	31	15	3	0	0	0	0	85	41-50	57
02:00 PM	3	0	0	2	3	1	13	48	22	0	1	0	0	0	93	46-55	70
03:00 PM	1	0	0	2	7	4	20	43	24	5	0	0	0	0	106	46-55	67
04:00 PM	5	0	0	1	3	12	34	50	26	5	0	0	0	0	136	41-50	84
05:00 PM	1	0	0	0	0	4	23	37	21	7	3	0	0	0	96	41-50	60
06:00 PM	3	0	0	0	0	3	11	23	22	9	5	0	0	0	76	46-55	45
07:00 PM	1	0	0	0	0	1	10	9	9	1	1	1	0	0	33	41-50	19
08:00 PM	1	0	0	0	0	3	12	9	9	2	0	0	0	0	36	41-50	21
09:00 PM	0	0	0	0	1	2	10	8	5	2	0	0	0	0	28	41-50	18
10:00 PM	1	0	0	1	0	1	6	6	2	0	0	0	0	0	17	41-50	12
11:00 PM	1	0	0	0	0	0	4	5	1	1	0	0	0	0	12	41-50	9
Day Total	38	0	9	26	50	102	318	447	232	50	13	1	0	0	1286	41-50	765
Percent	3%	0%	0.7%	2%	3.9%	7.9%	24.7%	34.8%	18%	3.9%	1%	0.1%	0%	0%	1200	41 30	703
AM Peak	8:00 AM		12:00 AM		8:00 AM	8:00 AM	10:00 AM	9:00 AM	8:00 AM	5:00 AM	5:00 AM		12:00 AM		10:00 AM		
Volume	5	0	4	5	8	14	25	34	14	2	1	0	0	0	91		
PM Peak	4:00 PM	12:00 PM		2:00 PM	3:00 PM	4:00 PM	4:00 PM	4:00 PM	4:00 PM	6:00 PM	6:00 PM		12:00 PM		4:00 PM		
Volume	5	0	2	2	7	12	34	50	26	9	5	1	0	0	136		

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

DATE: Apr 6 202

CITY/STATE:	Shasta,	CA														DATE: Ap	or 6 202
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	race speed	in Pac
12:00 AM	0	0	0	0	0	2	2	4	1	1	0	0	0	0	10	41-50	6
01:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	36-45	1
02:00 AM	0	0	0	0	0	1	1	2	2	1	0	0	0	0	7	46-55	4
03:00 AM	1	0	0	0	1	0	2	3	3	0	0	0	0	0	10	46-55	6
04:00 AM	0	0	0	1	0	1	7	0	4	1	0	0	0	0	14	36-45	8
05:00 AM	2	0	0	0	3	2	4	12	4	0	0	0	0	0	27	43-52	16
06:00 AM	2	0	0	1	0	5	8	16	12	7	0	0	0	0	51	46-55	28
07:00 AM	2	0	0	0	8	1	15	29	17	4	0	0	0	0	76	46-55	46
08:00 AM	3	0	0	1	3	8	15	33	16	3	0	0	0	0	82	46-55	49
09:00 AM	2	0	0	1	6	10	15	30	17	4	0	0	0	0	85	46-55	47
10:00 AM	1	0	0	7	1	4	19	26	21	3	2	0	0	0	84	46-55	47
11:00 AM	4	0	0	6	13	1	9	42	14	2	1	0	0	0	92	46-55	56
12:00 PM	2	0	0	3	6	5	21	38	14	5	0	0	0	0	94	41-50	59
01:00 PM	1	0	0	6	2	4	14	27	23	4	4	0	0	0	85	46-55	50
02:00 PM	3	0	0	0	6	4	20	37	24	5	1	0	0	0	100	46-55	61
03:00 PM	2	0	0	5	3	8	21	41	29	4	0	0	0	0	113	46-55	70
04:00 PM	5	0	0	1	7	6	24	46	20	5	2	0	0	0	116	41-50	70
05:00 PM	3	0	0	0	0	3	24	33	14	5	1	0	0	0	83	41-50	57
06:00 PM	0	0	0	2	0	0	15	32	19	4	1	0	0	0	73	46-55	51
07:00 PM	1	0	0	0	0	2	10	14	11	2	1	0	0	0	41	46-55	25
08:00 PM	1	0	0	0	1	6	10	13	3	0	0	0	0	0	34	41-50	23
09:00 PM	0	0	0	1	2	5	7	3	0	0	0	0	0	0	18	36-45	12
10:00 PM	0	0	0	0	0	1	5	4	3	0	0	0	0	0	13	41-50	9
11:00 PM	0	0	0	0	0	0	3	1	0	0	0	0	0	0	4	41-50	4
Day Total	35	0	0	35	62	79	272	486	271	60	13	0	0	0	1313	41-50	758
Percent	2.7%	0%	0%	2.7%	4.7%	6%	20.7%	37%	20.6%	4.6%	1%	0%	0%	0%	1313	11 30	730
AM Peak	11:00 AM	12·00 AM	12·00 AM	10:00 AM	11·00 AM	9:00 AM	10.00 414	11:00 AM	10.00 414	6:00 AM	10:00 ΔΜ	12:00 AM	12:00 AM	12:00 AM	11:00 AM		
Volume	4	0	0	7	13	10	19	42	21	7	2	0	0	0	92		
PM Peak	4:00 PM	12:00 PM	12:00 PM	1:00 PM	4:00 PM	3:00 PM	4:00 PM	4:00 PM	3:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	4:00 PM		
Volume	5	0	0	6	7	8	24	46	29	5	4	0	0	0	116		
Comments:																	

LOCATION: EB	SR 299 e	east of Su	pan Rd													QC JOB	#: 16124307
SPECIFIC LOCA	ATION:															DI	RECTION: EB
CITY/STATE: SI	hasta, CA	1													DAT	E: Apr 4 2023	- Apr 6 2023
Speed Range	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in
Speed Name	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 dec speed	Pace
Grand Total	104	0	16	97	169	295	974	1317	682	140	30	2	0	0	3826	41-50	2291
Percent	2.7%	0%	0.4%	2.5%	4.4%	7.7%	25.5%	34.4%	17.8%	3.7%	0.8%	0.1%	0%	0%	3820	41-30	2291
Cumulative	2.7%	2.7%	3.1%	5.7%	10.1%	17.8%	43.3%	77.7%	95.5%	99.2%	99.9%	100%	100%	100%			
Percent	2.770	2.770	0.1270	0.7,0	20.270	271070	.0.070	,,,,,	55.570	001270	551570	10070	20070	20070			
ADT 1275															Mea	an Speed(Avera Me	ntile: 52 MPH age): 45 MPH dian: 45 MPH lode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

DATE: Apr 4 2023

CITY/STATE: SI	iasta, CA													DAIL.	Apr 4 2023
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	5	0	0	1	0	0	2	0	0	0	0	0	0	8
01:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 AM	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3
03:00 AM	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3
04:00 AM	0	5	0	0	0	0	0	2	1	0	0	0	0	1	9
05:00 AM	0	16	3	0	2	0	0	3	1	0	0	0	0	2	27
06:00 AM	0	23	18	0	2	0	0	4	0	0	0	0	0	0	47
07:00 AM	2	51	14	0	3	1	0	7	1	0	0	0	0	2	81
MA 00:80	0	51	10	0	2	0	0	5	1	0	0	0	0	0	69
09:00 AM	0	58	14	0	5	0	0	5	0	0	0	0	0	3	85
10:00 AM	1	42	18	0	3	1	0	7	1	0	0	0	0	6	79
11:00 AM	0	54	12	0	5	0	0	8	0	0	0	0	0	0	79
12:00 PM	1	48	9	0	9	1	0	8	1	0	0	0	0	5	82
01:00 PM	0	53	11	0	4	0	0	6	2	0	0	0	0	3	79
02:00 PM	0	59	11	0	7	0	0	3	0	0	2	0	0	2	84
03:00 PM	0	69	9	0	2	0	0	3	3	0	1	0	0	4	91
04:00 PM	0	103	18	0	2	0	0	5	0	0	0	0	0	1	129
05:00 PM	0	73	10	0	1	0	0	3	0	0	0	0	0	0	87
06:00 PM	0	53	11	0	1	0	0	3	0	0	0	0	0	1	69
07:00 PM	0	30	5	0	1	0	0	1	0	0	0	0	0	0	37
08:00 PM	0	27	4	0	0	0	0	1	0	0	0	0	0	0	32
09:00 PM	1	22	2	0	1	1	0	2	0	0	0	0	0	0	29
10:00 PM	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
11:00 PM	0	6	1	0	0	0	0	0	0	0	0	0	0	0	7
Day Total	5	863	180	0	53	4	0	78	11	0	3	0	0	30	1227
Percent	0.4%	70.3%	14.7%	0%	4.3%	0.3%	0%	6.4%	0.9%	0%	0.2%	0%	0%	2.4%	1227
ADT 1227															
AM Peak	7:00 AM	9:00 AM	6:00 AM	12:00 AM	9:00 AM	7:00 AM	12:00 AM	11:00 AM	4:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	10:00 AM	9:00 AM
Volume	2	58	18	0	5	1	0	8	1	0	0	0	0	6	85
PM Peak	12:00 PM	4:00 PM	4:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	12:00 PM	4:00 PM
Volume	1	103	18	0	9	1	0	8	3	0	2	0	0	5	129
omments:															

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

DATE: Apr 5 2023

CITY/STATE: Sr	iasta, CA	C 0	2 Ande		2 4-1- 6	2 4-4-	A Andr	4E A!	E AI.	> C A!	aC A!	C A-de	> C A!		Apr 5 2023
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
		Trailers	Long		Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	
12:00 AM	2	0	1	0	1	2	0	0	0	0	0	0	0	0	6
01:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00 AM	0	3	1	0	1	0	0	1	0	0	0	0	0	0	6
03:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
04:00 AM	0	6	1	0	1	0	0	1	0	0	0	0	0	0	9
05:00 AM	0	14	5	0	1	0	0	2	0	0	0	0	0	2	24
06:00 AM	0	23	15	0	5	0	0	4	1	0	0	0	0	1	49
07:00 AM	1	37	19	0	4	0	0	3	3	0	0	0	0	1	68
08:00 AM	2	50	9	0	11	2	0	3	0	0	0	0	0	5	82
09:00 AM	0	49	15	0	4	1	0	8	1	0	0	0	0	2	80
10:00 AM	1	61	10	0	5	1	0	11	0	0	0	0	0	2	91
11:00 AM	0	52	13	0	3	1	0	3	1	0	0	0	0	3	76
12:00 PM	1	50	9	0	5	1	0	3	1	0	1	0	0	1	72
01:00 PM	0	61	10	0	7	0	0	3	0	0	0	0	0	4	85
02:00 PM	0	72	10	0	4	0	0	3	1	0	0	0	0	3	93
03:00 PM	0	72	21	0	6	0	0	5	0	0	1	0	0	1	106
04:00 PM	0	100	24	0	1	0	0	5	0	0	2	0	0	4	136
05:00 PM	0	74	16	0	4	0	0	1	0	0	0	0	0	1	96
06:00 PM	0	56	13	0	2	0	0	2	0	0	0	0	0	3	76
07:00 PM	0	24	6	1	1	0	0	0	0	0	0	0	0	1	33
08:00 PM	0	30	2	0	0	0	0	3	0	0	0	0	0	1	36
09:00 PM	0	19	7	0	0	0	0	2	0	0	0	0	0	0	28
10:00 PM	0	13	2	0	0	0	0	0	1	0	0	0	0	1	17
11:00 PM	0	10	1	0	0	0	0	0	0	0	0	0	0	1	12
Day Total	7	880	211	11	66	8	0	63	9	0	4	0	0	37	1286
Percent	0.5%	68.4%	16.4%	0.1%	5.1%	0.6%	0%	4.9%	0.7%	0%	0.3%	0%	0%	2.9%	1200
ADT 1286															
AM Peak	12:00 AM	10:00 AM	7:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	10:00 AM	7:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	8:00 AM	10:00 AN
Volume	2	61	19	0	11	2	0	11	3	0	0	0	0	5	91
PM Peak	12:00 PM	4:00 PM	4:00 PM	7:00 PM	1:00 PM	12:00 PM	12:00 PM	3:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	1:00 PM	4:00 PM
Volume	1	100	24	1	7	1	0	5	1	0	2	0	0	4	136
mments:															
		22 4 55 584											. 116/1-11-		

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

DATE: Apr 6 2023

JIY/STATE: Sh	asia, CA	C 0	2 4 1		2 4-1- 6	2 4 1:	4 4 1:	4E A I	- A I.		ac A I	CAI.			Apr 6 202:
Start Time	Bikes	Cars &	2 Axle	Buses	2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Total
		Trailers	Long		Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	
12:00 AM	0	8	1	0	1	0	0	0	0	0	0	0	0	0	10
01:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00 AM	0	4	2	0	0	0	0	1	0	0	0	0	0	0	7
03:00 AM	0	5	3	0	1	0	0	0	0	0	0	0	0	1	10
04:00 AM	0	7	2	0	1	0	0	4	0	0	0	0	0	0	14
05:00 AM	0	12	2	0	3	0	0	6	0	0	2	0	0	2	27
06:00 AM	1	17	22	0	5	0	0	4	0	0	0	0	0	2	51
07:00 AM	0	44	16	0	7	0	0	7	0	0	0	0	0	2	76
MA 00:80	0	45	19	0	5	0	0	10	0	0	0	0	0	3	82
09:00 AM	0	54	13	0	7	0	0	9	0	0	0	0	0	2	85
10:00 AM	1	52	12	1	5	2	0	9	1	0	0	0	0	1	84
11:00 AM	1	62	14	0	5	0	0	4	1	0	1	0	0	4	92
12:00 PM	0	59	16	0	7	0	0	8	2	0	0	0	0	2	94
01:00 PM	1	53	16	0	10	1	0	3	0	0	0	0	0	1	85
02:00 PM	0	81	10	0	4	0	0	1	0	0	1	0	0	3	100
03:00 PM	1	81	20	0	5	1	0	3	0	0	0	0	0	2	113
04:00 PM	0	82	21	0	5	0	0	3	0	0	0	0	0	5	116
05:00 PM	0	62	15	0	1	0	0	2	0	0	0	0	0	3	83
06:00 PM	1	56	12	0	2	1	0	1	0	0	0	0	0	0	73
07:00 PM	1	31	6	0	2	0	0	0	0	0	0	0	0	1	41
08:00 PM	0	27	5	0	1	0	0	0	0	0	0	0	0	1	34
09:00 PM	1	12	4	0	1	0	0	0	0	0	0	0	0	0	18
10:00 PM	0	8	4	0	0	0	0	1	0	0	0	0	0	0	13
11:00 PM	0	3	0	0	1	0	0	0	0	0	0	0	0	0	4
Day Total	8	866	235	1	79	5	0	76	4	0	4	0	0	35	1313
Percent	0.6%	66%	17.9%	0.1%	6%	0.4%	0%	5.8%	0.3%	0%	0.3%	0%	0%	2.7%	1313
ADT 1313															
AM Peak	6:00 AM	11:00 AM	6:00 AM	10:00 AM	7:00 AM	10:00 AM	12:00 AM	8:00 AM	10:00 AM	12:00 AM	5:00 AM	12:00 AM	12:00 AM	11:00 AM	11:00 AN
Volume	1	62	22	1	7	2	0	10	1	0	2	0	0	4	92
PM Peak	1:00 PM	4:00 PM	4:00 PM	12:00 PM	1:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	4:00 PM	4:00 PN
Volume	1	82	21	0	10	1	0	8	2	0	1	0	0	5	116
	-								_		-		_		

LOCATION: EB SR 299 east of Supan Rd QC JOB #: 16124307 SPECIFIC LOCATION: **DIRECTION: EB** CITY/STATE: Shasta, CA DATE: Apr 4 2023 - Apr 6 2023 Cars & 2 Axle 2 Axle 6 4 Axle <5 Axl 5 Axle >6 Axl 3 Axle <6 Axl 6 Axle >6 Axl Not Start Time **Bikes Buses** Total **Trailers** Long Tire Single Single Double Double Double Multi Multi Multi Classed **Grand Total** 20 2609 626 2 198 17 0 217 24 0 11 0 0 102 3826 0.5% 0% 2.7% Percent 68.2% 16.4% 0.1% 5.2% 0.4% 0% 5.7% 0.6% 0% 0.3% 0% ADT 1275 Comments:

Report generated on 4/11/2023 4:55 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB

DATE: Apr 4 2023 - Apr 6 2023

Start Time	Mon	Tue 4 Apr 23	Wed 5 Apr 23	Thu 6 Apr 23	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		8	6	10		8			8	
01:00 AM		1	2	1		1			1	
02:00 AM		3	6	7		5			5	
03:00 AM		3	3	10		5			5	
04:00 AM		9	9	14		11			11	
05:00 AM		27	24	27		26			26	
06:00 AM		47	49	51		49			49	
07:00 AM		81	68	76		75			75	
08:00 AM		69	82	82		78			78	
09:00 AM		85	80	85		83			83	
10:00 AM		79	91	84		85			85	
11:00 AM		79	76	92		82			82	
12:00 PM		82	72	94		83			83	
01:00 PM		79	85	85		83			83	
02:00 PM		84	93	100		92			92	
03:00 PM		91	106	113		103			103	
04:00 PM		129	136	116		127			127	
05:00 PM		87	96	83		89			89	
06:00 PM		69	76	73		73		In:	73	
07:00 PM		37	33	41		37	\sim	411	37	
08:00 PM		32	36	34		34			34	
09:00 PM		29	28	18		25			25	
L0:00 PM		10	17	13		13	DIVIN	UNII	13	
L1:00 PM		7	12	4		8			8	
Day Total		1227	1286	1313		1275			1275	
Weekday Average		96.2%	100.9%	103%						
% Week Average		96.2%	100.9%	103%		100%				
AM Peak Volume		9:00 AM 85	10:00 AM 91	11:00 AM 92		10:00 AM 85			10:00 AM 85	
PM Peak Volume		4:00 PM 129	4:00 PM 136	4:00 PM 116		4:00 PM 127			4:00 PM 127	

SPECIFIC LOCATION:

QC JOB #: 16124307 DIRECTION: EB, WB

DATE: Apr 4 2023

CITY/STATE:	Shasta,	CA														DATE: Ap	or 4 2023
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 dec speed	in Pace
12:00 AM	0	0	0	0	1	1	7	3	0	0	0	0	0	0	12	41-50	10
01:00 AM	1	0	0	0	0	0	0	2	1	0	0	0	0	0	4	46-55	3
02:00 AM	0	0	0	0	0	3	1	2	0	0	0	0	0	0	6	36-45	4
03:00 AM	0	0	0	0	0	0	2	4	5	0	1	0	0	0	12	46-55	9
04:00 AM	1	0	0	0	1	1	6	4	4	0	2	0	0	0	19	41-50	10
05:00 AM	3	0	3	1	4	3	15	14	6	1	0	0	0	0	50	41-50	29
06:00 AM	1	0	0	1	1	6	27	22	18	3	1	0	0	0	80	41-50	49
07:00 AM	5	0	4	1	3	9	42	57	24	7	1	0	0	0	153	41-50	99
08:00 AM	0	0	0	0	4	11	42	62	32	4	0	0	0	0	155	41-50	104
09:00 AM	3	0	0	3	6	6	48	85	28	6	0	0	0	0	185	41-50	133
10:00 AM	9	0	0	11	3	4	35	78	34	4	0	1	0	0	179	41-50	113
11:00 AM	3	0	0	6	8	11	34	55	48	8	1	0	0	0	174	46-55	103
12:00 PM	6	0	0	5	8	5	35	68	30	12	0	0	0	0	169	41-50	103
01:00 PM	6	0	0	2	2	15	44	74	39	5	1	0	0	0	188	41-50	118
02:00 PM	3	0	0	0	8	12	35	72	42	5	0	1	0	0	178	46-55	114
03:00 PM	6	0	0	4	7	2	34	69	37	14	4	0	0	0	177	46-55	106
04:00 PM	3	0	0	2	0	9	60	90	40	11	1	0	0	0	216	41-50	150
05:00 PM	3	0	0	1	0	5	29	88	33	11	2	0	0	0	172	46-55	121
06:00 PM	2	0	0	0	5	12	19	34	38	6	0	0	0	0	116	46-55	72
07:00 PM	1	0	0	0	0	7	11	29	23	6	0	0	0	0	77	46-55	52
08:00 PM	0	0	0	0	1	8	17	18	6	0	1	0	0	0	51	41-50	35
09:00 PM	0	0	2	0	2	5	14	6	2	2	1	0	0	0	34	41-50	20
10:00 PM	1	0	0	0	0	2	5	4	3	2	0	0	0	0	17	41-50	9
11:00 PM	1	0	0	0	0	3	4	2	3	1	0	0	0	0	14	36-45	7
Day Total	58	0	9	37	64	140	566	942	496	108	16	2	0	0	2438	41-50	1508
Percent	2.4%	0%	0.4%	1.5%	2.6%	5.7%	23.2%	38.6%	20.3%	4.4%	0.7%	0.1%	0%	0%	2438	41-50	1508
AM Peak Volume	10:00 AM 9	12:00 AM 0	7:00 AM 4	10:00 AM 11	11:00 AM 8	8:00 AM 11	9:00 AM 48	9:00 AM 85	11:00 AM 48	11:00 AM 8	4:00 AM 2	10:00 AM 1	12:00 AM 0	12:00 AM 0	9:00 AM 185		
PM Peak		12:00 PM	9:00 PM	12:00 PM		1:00 PM	4:00 PM	4:00 PM	2:00 PM	3:00 PM	3:00 PM		12:00 PM		4:00 PM		
Volume	6 6	0 0	9:00 PM	5 5	8 8	1:00 PM 15	60 60	90	42	3:00 PM 14	3:00 PIVI 4	2:00 PIVI 1	0 PIVI	0 0	4:00 PIVI 216		
Comments:																	

SPECIFIC LOCATION:

QC JOB #: 16124307 DIRECTION: EB, WB

DATE: Apr 5 2023

CITY/STATE:	Shasta,	CA														DATE: Ap	or 5 202
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
start mile	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 dec speed	in Pac
12:00 AM	0	0	4	0	0	0	2	4	1	0	0	0	0	0	11	41-50	6
01:00 AM	0	0	0	0	1	0	1	1	0	0	0	0	0	0	3	41-50	2
02:00 AM	0	0	0	0	0	2	4	0	1	1	0	0	0	0	8	36-45	6
03:00 AM	0	0	0	0	0	0	1	4	0	1	0	0	0	0	6	41-50	5
04:00 AM	0	0	0	0	0	0	7	6	3	1	0	0	0	0	17	41-50	13
05:00 AM	2	0	0	0	3	5	7	18	11	3	4	1	0	0	54	46-55	29
06:00 AM	1	0	0	0	5	11	14	35	23	4	0	0	0	0	93	46-55	58
07:00 AM	4	0	1	5	3	6	27	45	34	11	3	0	0	0	139	46-55	79
08:00 AM	6	0	1	3	8	17	27	51	60	13	4	1	1	0	192	46-55	111
09:00 AM	3	0	0	5	7	6	36	76	35	9	0	0	1	0	178	41-50	112
10:00 AM	2	0	0	4	5	10	46	81	40	3	1	0	0	0	192	41-50	127
11:00 AM	6	0	1	3	2	16	38	56	37	12	1	0	0	0	172	41-50	94
12:00 PM	2	0	2	1	5	14	36	63	42	8	0	0	0	0	173	46-55	105
01:00 PM	7	0	2	0	1	5	47	63	48	7	0	0	0	0	180	46-55	111
02:00 PM	6	0	0	2	4	3	33	77	44	5	1	0	0	0	175	46-55	121
03:00 PM	2	0	0	2	8	7	40	86	47	8	0	1	0	0	201	46-55	133
04:00 PM	8	0	0	1	4	14	47	94	43	7	0	0	0	0	218	41-50	141
05:00 PM	3	0	0	0	2	5	38	74	44	14	4	0	0	0	184	46-55	118
06:00 PM	3	0	0	0	2	3	21	41	42	14	6	0	0	0	132	46-55	83
07:00 PM	3	0	0	0	0	2	12	18	14	2	2	1	0	0	54	46-55	32
08:00 PM	1	0	0	0	0	7	14	12	14	2	0	0	0	0	50	44-53	26
09:00 PM	0	0	0	0	1	4	11	17	5	2	0	0	0	0	40	41-50	28
10:00 PM	1	0	0	1	0	1	8	8	3	2	0	0	0	0	24	41-50	16
11:00 PM	1	0	0	0	1	0	4	5	1	1	0	0	0	0	13	41-50	9
Day Total	61	0	11	27	62	138	521	935	592	130	26	4	2	0	2509	46-55	1527
Percent	2.4%	0%	0.4%	1.1%	2.5%	5.5%	20.8%	37.3%	23.6%	5.2%	1%	0.2%	0.1%	0%	2309	40-33	1327
AM Peak	8:00 AM		12:00 AM	7:00 AM	8:00 AM	8:00 AM		10:00 AM	8:00 AM	8:00 AM	5:00 AM	5:00 AM		12:00 AM	8:00 AM		
Volume	6	0	4	5	8	17	46	81	60	13	4	1	1	0	192		
PM Peak	4:00 PM	12:00 PM	12:00 PM	2:00 PM	3:00 PM	12:00 PM	1:00 PM	4:00 PM	1:00 PM	5:00 PM	6:00 PM	3:00 PM	12:00 PM	12:00 PM	4:00 PM		
Volume	8	0	2	2	8	14	47	94	48	14	6	1	0	0	218		

SPECIFIC LOCATION:

QC JOB #: 16124307 DIRECTION: EB, WB

DATE: Apr 6 2023

CITY/STATE:	Shasta,	CA														DATE: Ap	or 6 202
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numb
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 acc specu	in Pac
12:00 AM	0	0	0	0	0	3	4	8	2	1	0	0	0	0	18	41-50	12
01:00 AM	0	0	0	0	0	0	1	1	2	0	0	0	0	0	4	46-55	3
02:00 AM	1	0	0	0	0	1	4	4	2	2	0	0	0	0	14	41-50	8
03:00 AM	1	0	0	0	1	0	2	5	9	4	1	0	0	0	23	46-55	14
04:00 AM	0	0	0	1	0	1	7	2	6	4	1	0	0	0	22	51-60	10
05:00 AM	2	0	0	0	3	3	11	18	13	2	3	0	0	0	55	46-55	31
06:00 AM	2	0	0	1	0	5	10	31	32	12	0	0	0	0	93	46-55	63
07:00 AM	5	0	0	0	8	1	18	50	49	15	3	1	1	0	151	46-55	99
08:00 AM	5	0	0	1	3	8	27	70	57	15	3	0	0	0	189	46-55	127
09:00 AM	5	0	0	1	6	11	30	73	49	18	0	0	0	0	193	46-55	122
10:00 AM	4	0	0	7	4	11	34	79	50	8	3	0	0	0	200	46-55	129
11:00 AM	5	0	0	6	15	2	21	84	46	8	2	0	0	0	189	46-55	130
12:00 PM	3	0	0	3	6	5	34	74	45	13	0	0	0	0	183	46-55	119
01:00 PM	8	0	0	6	2	7	21	78	60	13	5	1	0	0	201	46-55	138
02:00 PM	6	0	0	0	7	6	29	78	55	10	1	1	0	0	193	46-55	133
03:00 PM	6	0	0	6	6	8	37	95	72	12	2	0	0	0	244	46-55	167
04:00 PM	7	0	0	1	7	9	35	88	46	18	4	1	0	0	216	46-55	134
05:00 PM	5	0	0	0	0	3	36	58	43	17	5	0	0	0	167	46-55	101
06:00 PM	2	0	0	2	0	2	20	43	33	6	3	0	0	0	111	46-55	76
07:00 PM	2	0	0	0	0	3	17	20	17	8	1	0	0	0	68	41-50	37
08:00 PM	2	0	0	0	1	6	14	20	_ 5	1	1	0	0	0	50	41-50	34
09:00 PM	0	0	0	1	3	9	12	5	1	1	0	0	0	0	32	36-45	21
10:00 PM	0	0	0	0	0	1	10	7	3	0	0	0	0	0	21	41-50	17
11:00 PM	0	0	0	1	0	0	3	2	0	1	0	0	0	0	7	41-50	5
Day Total	71	0	0	37	72	105	437	993	697	189	38	4	1	0	2644	46-55	1690
Percent	2.7%	0%	0%	1.4%	2.7%	4%	16.5%	37.6%	26.4%	7.1%	1.4%	0.2%	0%	0%	2044	40 33	1030
AM Peak Volume	7:00 AM 5	0	12:00 AM 0	7	15	9:00 AM 11	10:00 AM 34	84	8:00 AM 57	9:00 AM 18	5:00 AM 3	7:00 AM 1	1	12:00 AM 0	10:00 AM 200		
PM Peak Volume	1:00 PM 8	12:00 PM 0	12:00 PM 0	1:00 PM 6	2:00 PM 7	4:00 PM 9	3:00 PM 37	3:00 PM 95	3:00 PM 72	4:00 PM 18	1:00 PM 5	1:00 PM 1	12:00 PM 0	12:00 PM 0	3:00 PM 244		

LOCATION: EB		ast of Su	pan Rd														#: 16124307
SPECIFIC LOCA																	ION: EB, WB
CITY/STATE: SI	nasta, CA														DAT	E: Apr 4 2023	- Apr 6 2023
Cnood Dongo	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Dogo Chood	Number in
Speed Range	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	Pace
Grand Total	190	0	20	101	198	383	1524	2870	1785	427	80	10	3	0	7591	46-55	4655
Percent	2.5%	0%	0.3%	1.3%	2.6%	5%	20.1%	37.8%	23.5%	5.6%	1.1%	0.1%	0%	0%	7591	40-55	4055
Cumulative Percent	2.5%	2.5%	2.8%	4.1%	6.7%	11.8%	31.8%	69.6%	93.1%	98.8%	99.8%	100%	100%	100%			
ADT 2530															Mea	an Speed(Avera Med	ntile: 53 MPH age): 47 MPH dian: 47 MPH ode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB, WB DATE: Apr 4 2023

,	iasta, CA	Care 9	2 Axle		2 Axle 6	3 Axle	4 Avle	<5 Axl	Γ Anda	>6 Axl	aC And	C Aula	>6 Axl		Apr 4 202:
Start Time	Bikes	Cars & Trailers	2 Axie Long	Buses	Z Axie 6 Tire	3 Axie Single	4 Axle Single	<5 Axı Double	5 Axle Double	>6 Axı Double	<6 Axl Multi	6 Axle Multi	>6 Axı Multi	Not Classed	Total
12.00.414	_														12
12:00 AM	0	9	0	0	1	0	0	2	0	0	0	0	0	0	12
01:00 AM	0	3	0	0	0	0	0	0	0	0	0	0	0	1	4
02:00 AM	0	4	0	0	1	0	0	1	0	0	0	0	0	0	6
03:00 AM	0	8	2	0	1	0	0	1	0	0	0	0	0	0	12
04:00 AM	0	11	2	0	1	0	0	2	1	0	1	0	0	1	19
05:00 AM	0	28	8	0	2	1	0	6	1	0	1	0	0	3	50
06:00 AM	0	48	21	0	3	0	0	7	0	0	0	0	0	1	80
07:00 AM	2	111	20	0	3	1	0	10	1	0	1	0	0	4	153
08:00 AM	0	106	31	0	3	0	0	14	1	0	0	0	0	0	155
09:00 AM	0	130	30	0	9	0	1	10	0	0	2	0	0	3	185
10:00 AM	1	109	34	0	6	1	0	14	1	0	3	0	1	9	179
11:00 AM	1	118	26	0	13	0	0	11	0	0	2	0	0	3	174
12:00 PM	1	106	24	0	11	1	0	14	1	0	5	0	0	6	169
01:00 PM	0	127	25	0	13	0	0	15	2	0	2	0	0	4	188
02:00 PM	0	124	24	1	13	0	0	10	0	0	2	0	1	3	178
03:00 PM	0	125	30	0	7	0	0	5	3	0	1	0	0	6	177
04:00 PM	0	164	31	0	9	0	0	8	1	0	0	0	0	3	216
05:00 PM	0	142	16	0	3	0	0	6	0	0	2	0	0	3	172
06:00 PM	0	93	15	0	2	0	0	4	0	0	0	0	0	2	116
07:00 PM	0	57	13	0	4	0	0	1	0	0	1	0	0	1	77
08:00 PM	0	43	4	0	1	0	0	3	0	0	0	0	0	0	51
09:00 PM	1	26	2	0	1	1	0	3	0	0	0	0	0	0	34
10:00 PM	0	15	0	0	0	0	0	1	0	0	0	0	0	1	17
11:00 PM	0	7	2	0	1	0	0	1	0	0	2	0	0	1	14
Day Total	6	1714	360	1	108	5	1	149	12	0	25	0	2	55	2438
Percent	0.2%	70.3%	14.8%	0%	4.4%	0.2%	0%	6.1%	0.5%	0%	1%	0%	0.1%	2.3%	2436
ADT 2438															
AM Peak	7:00 AM	9:00 AM	10:00 AM	12:00 AM	11:00 AM	5:00 AM	9:00 AM	8:00 AM	4:00 AM	12:00 AM	10:00 AM	12:00 AM	10:00 AM	10:00 AM	9:00 AN
Volume	2	130	34	0	13	1	1	14	1	0	3	0	1	9	185
PM Peak	12:00 PM	4:00 PM	4:00 PM	2:00 PM	1:00 PM	12:00 PM	12:00 PM	1:00 PM	3:00 PM	12:00 PM	12:00 PM	12:00 PM	2:00 PM	12:00 PM	4:00 PN
Volume	1	164	31	1	13	1	0	15	3	0	5	0	1	6	216

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124307 DIRECTION: EB, WB DATE: Apr 5 2023

Trailers Long Trailers Long Trailers Single Single Double Double Double Multi Multi Multi Classed		iasta, CA														Apr 5 202
01:00 AM	Start Time	Bikes			Buses											Total
02:00 AM	12:00 AM	2	5	1	0	1	2	0	0	0	0	0	0	0	0	11
03:00 AM	01:00 AM	0	2	0	0	0	0	0	1	0	0	0	0	0	0	3
04:00 AM	02:00 AM	0	3	1	0	1	0	0	2	0	0	1	0	0	0	8
05:00 AM	03:00 AM	0	4	1	0	0	0	0	1	0	0	0	0	0	0	_
06:00 AM	04:00 AM	0	13	1	0	1	0	0	2	0	0	0	0	0	0	17
07:00 AM	05:00 AM	0	33	6	0	5	0	0	7	0	0	1	0	0	2	54
08:00 AM	06:00 AM	0	54		0	6	0	0	6	1	0	0	0	0	1	93
09:00 AM	07:00 AM	1	88	34	0	4	0	0	5	3	0	0	0	0	4	139
10:00 AM	MA 00:80	2	123	37	0	14	2	0	8	0	0	0	0	0	6	192
11:00 AM	09:00 AM	1	115	33	0	6	1	0	13	1	0	6	0	0	2	178
12:00 PM	10:00 AM	1	135	24	0	10	1	0	14	0	0	5	0	0	2	192
01:00 PM	11:00 AM	0	122	22	0	7	1	0	10	1	0	3	0	0	6	172
02:00 PM	12:00 PM	1	121	22	0	10	1	0	12	1	0	3	0	0	2	173
03:00 PM	01:00 PM	0	121	26	0	17	0	0	7	1	0	1	0	0	7	180
04:00 PM	02:00 PM	0	130	20	0	4	0	0	14	1	0	0	0	0	6	175
05:00 PM	03:00 PM	0	145	33	0	9	0	0	10	0	0	2	0	0	2	201
06:00 PM	04:00 PM	1	167	28	0	5	0	0	9	0	0	2	0	0	6	218
07:00 PM 08:00 PM 09:00 PM 10:00 P	05:00 PM	0	138	27	0	9	0	0	6	0	0	1	0	0	3	184
08:00 PM 09:00 PM 10:00 P	06:00 PM	0	92	27	0	5	0	0	5	0	0	0	0	0	3	132
09:00 PM 10:00 PM 10:00 PM 11:00 PM 10 0 19 2 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	07:00 PM	0	40	8	1	1	0	0	1	0	0	0	0	0	3	54
10:00 PM 0	08:00 PM	0	39	4	0		0	0	5	0	0	1_1_	0	0	1	50
11:00 PM 0 10 1 0 0 0 1 0 0 0 0 0 0 1 13 Day Total Percent 9 1746 390 1 116 8 0 143 10 0 28 0 0 58 250 ADT 2509 2 0 0 4.6% 0.3% 0% 5.7% 0.4% 0% 1.1% 0% 0% 2.3% 250 AMPeak Volume 12:00 AM 10:00 AM 8:00 AM 12:00 AM 12:00 AM 12:00 AM 12:00 AM 9:00 AM 12:00 AM 12:00 AM 8:00 AM 8:00 AM Volume 12:00 AM	09:00 PM	0	27	7	0	1	0	0	3	0	0	2	0	0	0	40
Day Total Percent 9 1746 390 1 116 8 0 15.5% 8 0 143 10 0 28 0 0 0 58 0 0 0 0 58 0 0 0 0 0 0 0 0 0	10:00 PM	0	19	2	0	0	0	0	1	1	0	0	0	0	1	24
ADT 2509 AM Peak Volume 2 135 37 0 14 2 00 PM Peak 12:00 PM 4:00 PM 3:00 PM 7:00 PM 1:00 PM 1	11:00 PM	0	10	1	0	0	0	0	1	0	0	0	0	0	1	13
ADT 2509 AM Peak Volume 2 135 37 0 14 2 00 PM Peak 12:00 PM 4:00 PM 3:00 PM 7:00 PM 1:00 PM 1	Day Total	_														2500
2509 AM Peak Volume 2 135 37 0 14 220 PM 1:00 PM 3:00 PM 7:00 PM 1:00	Percent	0.4%	69.6%	15.5%	0%	4.6%	0.3%	0%	5.7%	0.4%	0%	1.1%	0%	0%	2.3%	2303
Volume 2 135 37 0 14 2 0 14 3 0 6 0 0 6 192 PM Peak 12:00 PM 4:00 PM 3:00 PM 7:00 PM 12:00 PM 12																
PM Peak 12:00 PM 4:00 PM 3:00 PM 7:00 PM 1:00 PM 12:00 PM	AM Peak	12:00 AM	10:00 AM		12:00 AM	8:00 AM	12:00 AM	12:00 AM	10:00 AM	7:00 AM	12:00 AM	9:00 AM	12:00 AM	12:00 AM	8:00 AM	8:00 AN
	Volume	2			0	14			14	3	0				6	192
Volume 1 167 33 1 17 1 0 14 1 0 3 0 0 7 218	PM Peak	12:00 PM	4:00 PM	3:00 PM	7:00 PM	1:00 PM	12:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	1:00 PM	4:00 PN
	Volume	1	167	33	1	17	1	0	14	1	0	3	0	0	7	218

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124307 DIRECTION: EB, WB DATE: Apr 6 2023

ITY/STATE: Sh	iasta, CA														Apr 6 202
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	14	2	0	1	0	0	1	0	0	0	0	0	0	18
01:00 AM	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
02:00 AM	0	6	4	0	1	0	0	2	0	0	0	0	0	1	14
03:00 AM	0	9	7	0	4	0	0	2	0	0	0	0	0	1	23
04:00 AM	0	13	2	0	2	0	0	5	0	0	0	0	0	0	22
05:00 AM	0	29	8	0	5	0	0	8	0	0	3	0	0	2	55
06:00 AM	1	41	29	0	11	0	0	9	0	0	0	0	0	2	93
07:00 AM	0	94	28	0	10	0	0	14	0	0	0	0	0	5	151
MA 00:80	0	120	34	0	13	0	0	17	0	0	0	0	0	5	189
09:00 AM	1	132	28	0	13	0	0	14	0	0	1	0	0	4	193
10:00 AM	1	131	28	1	14	2	0	16	1	0	2	0	0	4	200
11:00 AM	1	136	25	0	11	0	0	6	1	0	4	0	0	5	189
12:00 PM	0	121	29	0	13	0	0	14	2	0	1	0	0	3	183
01:00 PM	1	130	28	0	18	1	0	13	0	0	2	0	0	8	201
02:00 PM	0	149	23	0	8	0	0	5	0	0	2	0	0	6	193
03:00 PM	1	172	36	0	11	1	0	14	0	0	3	0	0	6	244
04:00 PM	0	147	37	0	10	0	0	11	0	0	4	0	0	7	216
05:00 PM	0	129	25	0	3	0	0	4	0	0	1	0	0	5	167
06:00 PM	1	83	18	0	3	1	0	2	0	0	1	0	0	2	111
07:00 PM	1	47	10	0	4	0	0	4	0	0	0	0	0	2	68
08:00 PM	0	38	6	0	3	0	0	1	0	0	0	0	0	2	50
09:00 PM	1	24	5	0	2	0	0	0	0	0	0	0	0	0	32
10:00 PM	0	14	4	0	2	0	0	1	0	0	0	0	0	0	21
11:00 PM	0	6	0	0	1	0	0	0	0	0	0	0	0	0	7
Day Total	9	1788	417	1	163	5	0	163	4	0	24	0	0	70	2644
Percent	0.3%	67.6%	15.8%	0%	6.2%	0.2%	0%	6.2%	0.2%	0%	0.9%	0%	0%	2.6%	2644
ADT 2644															
AM Peak	6:00 AM	11:00 AM	8:00 AM	10:00 AM	10:00 AM	10:00 AM	12:00 AM	8:00 AM	10:00 AM	12:00 AM	11:00 AM	12:00 AM	12:00 AM	7:00 AM	10:00 A
Volume	1	136	34	1	14	2	0	17	1	0	4	0	0	5	200
PM Peak	1:00 PM	3:00 PM	4:00 PM	12:00 PM	1:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	1:00 PM	3:00 PI
Volume	1	172	37	0	18	1	0	14	2	0	4	0	0	8	244
mments:															

LOCATION: EB SR 299 east of Supan Rd QC JOB #: 16124307 SPECIFIC LOCATION: **DIRECTION: EB, WB** CITY/STATE: Shasta, CA DATE: Apr 4 2023 - Apr 6 2023 Cars & 2 Axle 2 Axle 6 4 Axle <5 Axl 5 Axle >6 Axl 3 Axle <6 Axl 6 Axle >6 Axl Not Start Time **Bikes Buses** Total **Trailers** Long Tire Single Single Double Double Double Multi Multi Multi Classed **Grand Total** 24 5248 1167 3 387 18 1 455 26 0 77 0 2 183 7591 0% 0% 6% 1% 0% Percent 0.3% 69.1% 15.4% 5.1% 0.2% 0.3% 0% 0% 2.4% ADT 2530

Report generated on 4/11/2023 4:55 PM

Comments:

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net)



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: EB, WB

DATE: Apr 4 2023 - Apr 6 2023

Start Time	Mon	Tue 4 Apr 23	Wed 5 Apr 23	Thu 6 Apr 23	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		12	11	18		14			14	
01:00 AM		4	3	4		4			4	
02:00 AM		6	8	14		9			9	
03:00 AM		12	6	23		14			14	
04:00 AM		19	17	22		19			19	
05:00 AM		50	54	55		53			53	
06:00 AM		80	93	93		89			89	
07:00 AM		153	139	151		148			148	
08:00 AM		155	192	189		179			179	
09:00 AM		185	178	193		185			185	
10:00 AM		179	192	200		190			190	
11:00 AM		174	172	189		178			178	
12:00 PM		169	173	183		175			175	
01:00 PM		188	180	201		190			190	
02:00 PM		178	175	193		182			182	
03:00 PM		177	201	244		207			207	
04:00 PM		216	218	216		217			217	
05:00 PM		172	184	167		174			174	
06:00 PM		116	132	111		120		ın'	120	
07:00 PM		77	54	68		66		411	66	
08:00 PM		51	50	50		50			50	
09:00 PM		34	40	32		35	00 00 01	TR TITL	35	
10:00 PM		17	24	21		21	JIVIIVI	JINH	21	
11:00 PM		14	13	7		11			11	
Day Total		2438	2509	2644		2530			2530	
% Weekday Average		96.4%	99.2%	104.5%						
% Week Average		96.4%	99.2%	104.5%		100%				
AM Peak		9:00 AM	8:00 AM	10:00 AM		10:00 AM			10:00 AM	
Volume		185	192	200		190			190	
PM Peak		4:00 PM	4:00 PM	3:00 PM		4:00 PM			4:00 PM	
Volume		216	218	244		217			217	

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: WB

DATE: Apr 4 2023

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numb
otart mine	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	race speed	in Pac
12:00 AM	0	0	0	0	0	0	2	2	0	0	0	0	0	0	4	41-50	4
01:00 AM	1	0	0	0	0	0	0	1	1	0	0	0	0	0	3	46-55	2
02:00 AM	0	0	0	0	0	1	1	1	0	0	0	0	0	0	3	36-45	2
03:00 AM	0	0	0	0	0	0	1	4	3	0	1	0	0	0	9	46-55	7
04:00 AM	0	0	0	0	0	0	3	4	1	0	2	0	0	0	10	41-50	7
05:00 AM	1	0	2	0	1	0	4	9	5	1	0	0	0	0	23	46-55	14
06:00 AM	1	0	0	0	0	0	5	14	11	1	1	0	0	0	33	46-55	25
07:00 AM	2	0	0	0	0	0	6	34	23	6	1	0	0	0	72	46-55	57
08:00 AM	0	0	0	0	0	1	14	40	27	4	0	0	0	0	86	46-55	67
09:00 AM	0	0	0	0	0	0	17	61	17	5	0	0	0	0	100	45-54	78
10:00 AM	3	0	0	0	1	1	13	54	23	4	0	1	0	0	100	46-55	77
11:00 AM	3	0	0	0	0	2	20	28	35	6	1	0	0	0	95	46-55	63
12:00 PM	1	0	0	0	1	1	8	45	23	8	0	0	0	0	87	46-55	68
01:00 PM	3	0	0	0	0	3	25	48	25	4	1	0	0	0	109	41-50	73
02:00 PM	1	0	0	0	3	4	13	42	28	3	0	0	0	0	94	46-55	70
03:00 PM	2	0	0	0	1	0	11	36	25	9	2	0	0	0	86	46-55	61
04:00 PM	2	0	0	0	0	3	9	48	18	7	0	0	0	0	87	46-55	66
05:00 PM	3	0	0	1	0	1	13	41	16	8	2	0	0	0	85	46-55	57
06:00 PM	1	0	0	0	0	2	6	16	16	6	0	0	0	0	47	46-55	32
07:00 PM	1	0	0	0	0	2	2	19	12	4	0	0	0	0	40	46-55	31
08:00 PM	0	0	0	0	0	2	3	7	6	0	1	0	0	0	19	46-55	13
09:00 PM	0	0	0	0	0	1	1	2	0	1	0	0	0	0	5	41-50	3
10:00 PM	1	0	0	0	0	1	2	1	1	1	0	0	0	0	7	41-50	3
11:00 PM	1	0	0	0	0	1	3	1	1	0	0	0	0	0	7	38-47	4
Day Total	27	0	2	1	7	26	182	558	317	78	12	1	0	0	1211	46-55	875
Percent	2.2%	0%	0.2%	0.1%	0.6%	2.1%	15%	46.1%	26.2%	6.4%	1%	0.1%	0%	0%	1211	40-55	6/3
AM Peak	10:00 AM 3	12:00 AM	5:00 AM	12:00 AM 0		11:00 AM		9:00 AM	11:00 AM	7:00 AM	4:00 AM	10:00 AM			9:00 AM		
Volume		0	2	-	1	2	20	61	35	6	2	1	0	0	100		
PM Peak Volume	1:00 PM 3	12:00 PM 0	12:00 PM 0	5:00 PM 1	2:00 PM 3	2:00 PM 4	1:00 PM 25	1:00 PM 48	2:00 PM 28	3:00 PM 9	3:00 PM 2	12:00 PM 0	12:00 PM 0	12:00 PM 0	1:00 PM 109		

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: WB

CITY/STATE:	Shasta,	CA														DATE: Ap	or 5 2023
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numbo in Pac
12:00 AM	0	0	0	0	0	0	1	3	1	0	0	0	0	0	5	43-52	4
01:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	36-45	1
02:00 AM	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	36-45	2
03:00 AM	0	0	0	0	0	0	1	1	0	1	0	0	0	0	3	41-50	2
04:00 AM	0	0	0	0	0	0	2	4	1	1	0	0	0	0	8	41-50	6
05:00 AM	0	0	0	0	2	2	2	10	9	1	3	1	0	0	30	46-55	19
06:00 AM	0	0	0	0	0	0	2	22	16	4	0	0	0	0	44	46-55	38
07:00 AM	3	0	0	0	0	0	5	24	26	10	3	0	0	0	71	46-55	50
08:00 AM	1	0	0	0	0	3	8	36	46	11	3	1	1	0	110	46-55	82
09:00 AM	1	0	0	1	0	3	16	42	27	7	0	0	1	0	98	46-55	69
10:00 AM	0	0	0	0	2	0	21	49	28	1	0	0	0	0	101	46-55	77
11:00 AM	3	0	0	0	0	2	18	39	23	10	1	0	0	0	96	46-55	62
12:00 PM	1	0	0	0	0	10	19	32	34	5	0	0	0	0	101	46-55	66
01:00 PM	3	0	2	0	0	0	21	32	33	4	0	0	0	0	95	46-55	65
02:00 PM	3	0	0	0	1	2	20	29	22	5	0	0	0	0	82	46-55	51
03:00 PM	1	0	0	0	1	3	20	43	23	3	0	1	0	0	95	46-55	66
04:00 PM	3	0	0	0	1	2	13	44	17	2	0	0	0	0	82	46-55	61
05:00 PM	2	0	0	0	2	1	15	37	23	7	1	0	0	0	88	46-55	60
06:00 PM	0	0	0	0	2	0	10	18	20	5	1	0	0	0	56	46-55	38
07:00 PM	2	0	0	0	0	1	2	9	5	1	1	0	0	0	21	46-55	14
08:00 PM	0	0	0	0	0	4	2	3	5	0	0	0	0	0	14	46-55	8
09:00 PM	0	0	0	0	0	2	1	9	0	0	0	0	0	0	12	41-50	10
10:00 PM	0	0	0	0	0	0	2	2	1	2	0	0	0	0	7	41-50	4
11:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	26-35	1
Day Total	23	0	2	1	12	36	203	488	360	80	13	3	2	0			
Percent	1.9%	0%	0.2%	0.1%	1%	2.9%	16.6%	39.9%	29.4%	6.5%	1.1%	0.2%	0.2%	0%	1223	46-55	848
AM Peak	7:00 AM	12:00 AM		9:00 AM	5:00 AM			10:00 AM	8:00 AM	8:00 AM	5:00 AM	5:00 AM		12:00 AM	8:00 AM		
Volume	3	0	0	1	2	3	21	49	46	11	3	1	1	0	110		
PM Peak Volume	1:00 PM 3	12:00 PM 0	1:00 PM 2	12:00 PM 0	5:00 PM 2	12:00 PM 10	1:00 PM 21	4:00 PM 44	12:00 PM 34	5:00 PM 7	5:00 PM 1	3:00 PM 1	12:00 PM 0	12:00 PM 0	12:00 PM 101		

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124307 **DIRECTION: WB**

CITY/STATE:	Shasta,	CA														DATE: Ap	or 6 2023
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 ace speed	in Pac
12:00 AM	0	0	0	0	0	1	2	4	1	0	0	0	0	0	8	41-50	6
01:00 AM	0	0	0	0	0	0	0	1	2	0	0	0	0	0	3	46-55	3
02:00 AM	1	0	0	0	0	0	3	2	0	1	0	0	0	0	7	41-50	5
03:00 AM	0	0	0	0	0	0	0	2	6	4	1	0	0	0	13	51-60	10
04:00 AM	0	0	0	0	0	0	0	2	2	3	1	0	0	0	8	51-60	5
05:00 AM	0	0	0	0	0	1	7	6	9	2	3	0	0	0	28	46-55	15
06:00 AM	0	0	0	0	0	0	2	15	20	5	0	0	0	0	42	46-55	35
07:00 AM	3	0	0	0	0	0	3	21	32	11	3	1	1	0	75	46-55	53
08:00 AM	2	0	0	0	0	0	12	37	41	12	3	0	0	0	107	46-55	78
09:00 AM	3	0	0	0	0	1	15	43	32	14	0	0	0	0	108	46-55	75
10:00 AM	3	0	0	0	3	7	15	53	29	5	1	0	0	0	116	46-55	82
11:00 AM	1	0	0	0	2	1	12	42	32	6	1	0	0	0	97	46-55	74
12:00 PM	1	0	0	0	0	0	13	36	31	8	0	0	0	0	89	46-55	67
01:00 PM	7	0	0	0	0	3	7	51	37	9	1	1	0	0	116	46-55	88
02:00 PM	3	0	0	0	1	2	9	41	31	5	0	1	0	0	93	46-55	72
03:00 PM	4	0	0	1	3	0	16	54	43	8	2	0	0	0	131	46-55	97
04:00 PM	2	0	0	0	0	3	11	42	26	13	2	1	0	0	100	46-55	68
05:00 PM	2	0	0	0	0	0	12	25	29	12	4	0	0	0	84	46-55	54
06:00 PM	2	0	0	0	0	2	5	11	14	2	2	0	0	0	38	46-55	25
07:00 PM	1	0	0	0	0	1	7	6	6	6	0	0	0	0	27	41-50	13
08:00 PM	1	0	0	0	0	0	4	7	2	1	1	0	0	0	16	41-50	11
09:00 PM	0	0	0	0	1	4	5	2	1	1	0	0	0	0	14	36-45	9
10:00 PM	0	0	0	0	0	0	5	3	0	0	0	0	0	0	8	41-50	8
11:00 PM	0	0	0	1	0	0	0	1	0	1	0	0	0	0	3	21-30	1
Day Total	36	0	0	2	10	26	165	507	426	129	25	4	1	0	1331	46-55	933
Percent	2.7%	0%	0%	0.2%	0.8%	2%	12.4%	38.1%	32%	9.7%	1.9%	0.3%	0.1%	0%	1001		
AM Peak	7:00 AM	12:00 AM					9:00 AM	10:00 AM		9:00 AM	5:00 AM	7:00 AM		12:00 AM	10:00 AM		
Volume	3	0	0	0	3	7	15	53	41	14	3	1	1	0	116		
PM Peak	1:00 PM	12:00 PM	12:00 PM	3:00 PM	3:00 PM	9:00 PM	3:00 PM	3:00 PM	3:00 PM	4:00 PM	5:00 PM	1:00 PM	12:00 PM	12:00 PM	3:00 PM		
Volume	7	0	0	1	3	4	16	54	43	13	4	1	0	0	131		
Comments:													·		- 		

LOCATION: EB	SR 299 e	ast of Su	pan Rd													QC JOB	#: 16124307
SPECIFIC LOCA	ATION:															DIR	ECTION: WB
CITY/STATE: SI	hasta, CA														DAT	E: Apr 4 2023	- Apr 6 2023
Speed Range	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in
Speed Name	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	1 ace speed	Pace
Grand Total	86	0	4	4	29	88	550	1553	1103	287	50	8	3	0	3765	46-55	2656
Percent	2.3%	0%	0.1%	0.1%	0.8%	2.3%	14.6%	41.2%	29.3%	7.6%	1.3%	0.2%	0.1%	0%	3703	40-33	2030
Cumulative Percent	2.3%	2.3%	2.4%	2.5%	3.3%	5.6%	20.2%	61.5%	90.8%	98.4%	99.7%	99.9%	100%	100%			
ADT 1255															Mea	an Speed(Avera Med	ntile: 54 MPH age): 48 MPH dian: 48 MPH ode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: WB

DATE: Apr 4 2023

CITY/STATE: Sr	<u> </u>	Cars &	2 Axle		2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Apr 4 2023
Start Time	Bikes	Trailers	Long	Buses	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
12:00 AM	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
01:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	1	3
02:00 AM	0	2	0	0	0	0	0	1	0	0	0	0	0	0	3
03:00 AM	0	6	2	0	0	0	0	1	0	0	0	0	0	0	9
04:00 AM	0	6	2	0	1	0	0	0	0	0	1	0	0	0	10
05:00 AM	0	12	5	0	0	1	0	3	0	0	1	0	0	1	23
06:00 AM	0	25	3	0	1	0	0	3	0	0	0	0	0	1	33
07:00 AM	0	60	6	0	0	0	0	3	0	0	1	0	0	2	72
08:00 AM	0	55	21	0	1	0	0	9	0	0	0	0	0	0	86
09:00 AM	0	72	16	0	4	0	1	5	0	0	2	0	0	0	100
10:00 AM	0	67	16	0	3	0	0	7	0	0	3	0	1	3	100
11:00 AM	1	64	14	0	8	0	0	3	0	0	2	0	0	3	95
12:00 PM	0	58	15	0	2	0	0	6	0	0	5	0	0	1	87
01:00 PM	0	74	14	0	9	0	0	9	0	0	2	0	0	1	109
02:00 PM	0	65	13	1	6	0	0	7	0	0	0	0	1	1	94
03:00 PM	0	56	21	0	5	0	0	2	0	0	0	0	0	2	86
04:00 PM	0	61	13	0	7	0	0	3	1	0	0	0	0	2	87
05:00 PM	0	69	6	0	2	0	0	3	0	0	2	0	0	3	85
06:00 PM	0	40	4	0	1	0	0	1	0	0	0	0	0	1	47
07:00 PM	0	27	8	0	3	0	0	0	0	0	1	0	0	1	40
08:00 PM	0	16	0	0	1	0	0	2	0	0	0	0	0	0	19
09:00 PM	0	4	0	0	0	0	0	1	0	0	0	0	0	0	5
10:00 PM	0	5	0	0	0	0	0	1	0	0	0	0	0	1	7
11:00 PM	0	1	1	0	1	0	0	1	0	0	2	0	0	1	7
Day Total	1	851	180	1	55	1	1	71	1	0	22	0	2	25	1211
Percent	0.1%	70.3%	14.9%	0.1%	4.5%	0.1%	0.1%	5.9%	0.1%	0%	1.8%	0%	0.2%	2.1%	
ADT 1211															
AM Peak	11:00 AM	9:00 AM	8:00 AM	12:00 AM	11:00 AM	5:00 AM	9:00 AM	8:00 AM	12:00 AM	12:00 AM	10:00 AM	12:00 AM	10:00 AM	10:00 AM	9:00 AN
Volume	1	72	21	0	8	1	1	9	0	0	3	0	1	3	100
PM Peak	12:00 PM	1:00 PM	3:00 PM	2:00 PM	1:00 PM	12:00 PM	12:00 PM	1:00 PM	4:00 PM	12:00 PM	12:00 PM	12:00 PM	2:00 PM	5:00 PM	1:00 PN
Volume	0	74	21	1	9	0	0	9	1	0	5	0	1	3	109
mments:															
		22 4 55 514										! !	- 110/1-11	//	

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: WB

DATE: Apr 5 2023

CITT/STATE: SI	iasta, CA													DATE.	Apr 5 2023
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
01:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
02:00 AM	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2
03:00 AM	0	2	0	0	0	0	0	1	0	0	0	0	0	0	3
04:00 AM	0	7	0	0	0	0	0	1	0	0	0	0	0	0	8
05:00 AM	0	19	1	0	4	0	0	5	0	0	1	0	0	0	30
06:00 AM	0	31	10	0	1	0	0	2	0	0	0	0	0	0	44
07:00 AM	0	51	15	0	0	0	0	2	0	0	0	0	0	3	71
08:00 AM	0	73	28	0	3	0	0	5	0	0	0	0	0	1	110
09:00 AM	1	66	18	0	2	0	0	5	0	0	6	0	0	0	98
10:00 AM	0	74	14	0	5	0	0	3	0	0	5	0	0	0	101
11:00 AM	0	70	9	0	4	0	0	7	0	0	3	0	0	3	96
12:00 PM	0	71	13	0	5	0	0	9	0	0	2	0	0	1	101
01:00 PM	0	60	16	0	10	0	0	4	1	0	1	0	0	3	95
02:00 PM	0	58	10	0	0	0	0	11	0	0	0	0	0	3	82
03:00 PM	0	73	12	0	3	0	0	5	0	0	1	0	0	1	95
04:00 PM	1	67	4	0	4	0	0	4	0	0	0	0	0	2	82
05:00 PM	0	64	11	0	5	0	0	5	0	0	1	0	0	2	88
06:00 PM	0	36	14	0	3	0	0	3	0	0	0	0	0	0	56
07:00 PM	0	16	2	0	0	0	0	1	0	0	0	0	0	2	21
08:00 PM	0	9	2	0	0	0	0	2	0	0	11	0	0	0	14
09:00 PM	0	8	0	0	1	0	0	1	0	0	2	0	0	0	12
10:00 PM	0	6	0	0	0	0	0	1	0	0	0	0	0	0	7
11:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Day Total	2	866	179	0	50	0	0	80	1	0	24	0	0	21	1223
Percent	0.2%	70.8%	14.6%	0%	4.1%	0%	0%	6.5%	0.1%	0%	2%	0%	0%	1.7%	1223
ADT 1223															
AM Peak	9:00 AM	10:00 AM	8:00 AM	12:00 AM	10:00 AM	12:00 AM	12:00 AM	11:00 AM	12:00 AM	12:00 AM	9:00 AM	12:00 AM	12:00 AM	7:00 AM	8:00 AM
Volume	1	74	28	0	5	0	0	7	0	0	6	0	0	3	110
PM Peak	4:00 PM	3:00 PM	1:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	2:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 PM
Volume	1	73	16	0	10	0	0	11	1	0	2	0	0	3	101
Comments:															

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: WB

DATE: Apr 6 2023

CITY/STATE: Sh	iasta, CA	Cars &	2 Axle		2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Apr 6 2023
Start Time	Bikes	Trailers	Long	Buses	Tire	Single	Single	Double	Double	Double	<o axi<br="">Multi</o>	o Axie Multi	>6 Axi Multi	Classed	Total
12:00 AM	0		1	0	0	0			0	0			0	0	0
01:00 AM	0	6		0	0	0	0 0	1	0	0	0 0	0	0	0	8
01:00 AM 02:00 AM	0	2	1	_	1	0		0	0	0	0	0 0		-	7
	_	2 4	2 4	0 0	3	0	0	1	0	0	0		0 0	1 0	
03:00 AM 04:00 AM	0 0	4 6	0	0	3 1	0	0 0	2	0	0	0	0 0	0	0	13 8
05:00 AM	0	17	6	0	2	0	0	1	0	0	1	0	0	0	
	_		_	·	6	-	0	2	0	ū	0	_	•	•	28
06:00 AM	0	24	7	0 0	_	0		5	0	0 0	0	0	0	0	42 75
07:00 AM	0	50	12	•	3		0	7		_		0	0	3	
08:00 AM	0	75 70	15	0	8 6	0	0	7	0	0	0	0	0	2	107
09:00 AM	1	78 7 0	15	U	•	0	0	5	U	•	1	0	0	2	108
10:00 AM	0	79	16	0	9	0	0	7	0	0	2	0	0	3	116
11:00 AM	0	74	11	0	6	0	0	2	0	0	3	0	0	1	97
12:00 PM	0	62	13	0	6	0	0	6	0	0	1	0	0	1	89
01:00 PM	0	77	12	0	8	0	0	10	0	0	2	0	0	7	116
02:00 PM	0	68	13	0	4	0	0	4	0	0	1	0	0	3	93
03:00 PM	0	91	16	0	6	0	0	11	0	0	3	0	0	4	131
04:00 PM	0	65	16	0	5	0	0	8	0	0	4	0	0	2	100
05:00 PM	0	67	10	0	2	0	0	2	0	0	1	0	0	2	84
06:00 PM	0	27	6	0	1	0	0	1	0	0	1	0	0	2	38
07:00 PM	0	16	4	0	2	0	0	4	0	0	0	0	0	1	27
08:00 PM	0	11	1	0	2	0	0	1	0	0	0	0	0	1	16
09:00 PM	0	12	1	0	1	0	0	0	0	0	0	0	0	0	14
10:00 PM	0	6	0	0	2	0	0	0	0	0	0	0	0	0	8
11:00 PM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Day Total	1	922	182	0	84	0	0	87	0	0	20	0	0	35	1331
Percent	0.1%	69.3%	13.7%	0%	6.3%	0%	0%	6.5%	0%	0%	1.5%	0%	0%	2.6%	
ADT 1331															
AM Peak	9:00 AM	10:00 AM	10:00 AM	12:00 AM	10:00 AM	12:00 AM	12:00 AM	7:00 AM	12:00 AM	12:00 AM	11:00 AM	12:00 AM	12:00 AM	7:00 AM	10:00 AN
Volume	1	79	16	0	9	0	0	7.007	0	0	3	0	0	3	116
PM Peak	12:00 PM	3:00 PM	3:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	3:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	1:00 PM	3:00 PM
Volume	0	91	16	0	8	0	0	11	0	0	4.00 F W	0	0	7	131
omments:	J	71												•	101
······································)22 4 EE DN4											. 110/1.		

LOCATION: EB SR 299 east of Supan Rd QC JOB #: 16124307 SPECIFIC LOCATION: **DIRECTION: WB** CITY/STATE: Shasta, CA DATE: Apr 4 2023 - Apr 6 2023 Cars & 2 Axle 2 Axle 6 4 Axle <5 Axl 5 Axle >6 Axl 3 Axle <6 Axl 6 Axle >6 Axl Not Start Time **Bikes Buses** Total **Trailers** Long Tire Single Single Double Double Double Multi Multi Multi Classed **Grand Total** 4 2639 541 1 189 1 1 238 2 0 66 0 2 81 3765 0.1% 0% 0% 0.1% 2.2% Percent 70.1% 14.4% 5% 0% 6.3% 0.1% 0% 1.8% 0% ADT 1255 Comments:

Report generated on 4/11/2023 4:55 PM



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124307 DIRECTION: WB

DATE: Apr 4 2023 - Apr 6 2023

Start Time	Mon	Tue 4 Apr 23	Wed 5 Apr 23	Thu 6 Apr 23	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		4	5	8		6			6	
01:00 AM		3	1	3		2			2	
02:00 AM		3	2	7		4			4	
03:00 AM		9	3	13		8			8	
04:00 AM		10	8	8		9			9	
05:00 AM		23	30	28		27			27	
06:00 AM		33	44	42		40			40	
07:00 AM		72	71	75		73			73	
08:00 AM		86	110	107		101			101	
09:00 AM		100	98	108		102			102	
10:00 AM		100	101	116		106			106	
11:00 AM		95	96	97		96			96	
12:00 PM		87	101	89		92			92	
01:00 PM		109	95	116		107			107	
02:00 PM		94	82	93		90			90	
03:00 PM		86	95	131		104			104	
04:00 PM		87	82	100		90			90	
05:00 PM		85	88	84		86			86	
06:00 PM		47	56	38		47		ın'	47	
07:00 PM		40	21	27		29		411	29	
08:00 PM		19	14	16		16			16	
09:00 PM		5	12	14		10	00000	TR 11-	10	
10:00 PM		7	7	8		DRIVES C	DIVIIVI	JINH	1 - 5 7	
11:00 PM		7	1	3		4			4	
Day Total		1211	1223	1331		1256			1256	
% Weekday Average		96.4%	97.4%	106%						
% Week Average		96.4%	97.4%	106%		100%				
AM Peak		9:00 AM	8:00 AM	10:00 AM		10:00 AM			10:00 AM	
Volume		100	110	116		106			106	
PM Peak		1:00 PM	12:00 PM	3:00 PM		1:00 PM			1:00 PM	
Volume		109	101	131		107			107	

SPECIFIC LOCATION: CITY/STATE: Sharta CA QC JOB #: 16124308 **DIRECTION: EB**

CITY/STATE:	Shasta,															DATE: Ap	pr 4 202
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	0	0	0	2	2	4	0	0	0	0	0	0	8	41-50	6
01:00 AM	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	46-55	2
02:00 AM	0	0	0	0	0	0	1	1	1	0	0	0	0	0	3	41-50	2
03:00 AM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	46-55	2
04:00 AM	1	0	0	0	0	1	0	5	1	1	0	0	0	0	9	46-55	6
05:00 AM	0	0	0	0	1	5	7	10	1	2	0	0	0	0	26	41-50	17
06:00 AM	0	0	0	0	0	2	15	21	7	4	1	0	0	0	50	41-50	36
07:00 AM	1	0	0	0	6	9	16	32	10	1	0	0	0	0	75	41-50	48
08:00 AM	1	0	0	0	0	1	22	33	17	4	0	0	0	0	78	41-50	55
09:00 AM	1	0	0	0	0	5	25	32	16	3	0	0	0	0	82	41-50	57
10:00 AM	4	0	0	0	0	5	26	25	6	2	0	0	0	0	68	41-50	51
11:00 AM	1	0	0	0	1	13	19	37	16	6	1	0	0	0	94	41-50	56
12:00 PM	0	0	0	0	2	9	15	27	16	3	0	0	0	0	72	46-55	43
01:00 PM	1	0	0	0	0	10	25	30	13	5	0	0	0	0	84	41-50	55
02:00 PM	3	0	0	0	0	1	15	30	25	4	0	0	0	0	78	46-55	55
03:00 PM	4	0	0	0	0	4	15	25	41	6	2	0	0	0	97	46-55	66
04:00 PM	3	0	0	0	0	1	29	65	21	4	1	1	0	0	125	41-50	94
05:00 PM	2	0	0	0	0	1	20	40	25	2	0	0	0	0	90	46-55	65
06:00 PM	2	0	0	0	0	0	16	23	24	4	0	0	0	0	69	46-55	47
07:00 PM	0	0	0	0	0	0	10	13	9	1	1	0	0	0	34	41-50	23
08:00 PM	0	0	0	0	1	2	12	13	4	0	0	0	0	0	32	41-50	25
09:00 PM	0	0	0	1	1	5	8	7	3	2	1	0	0	0	28	41-50	15
10:00 PM	0	0	0	0	0	0	2	5	1	3	0	0	0	0	11	41-50	7
11:00 PM	0	0	0	0	1	0	2	2	1	1	0	0	0	0	7	41-50	4
Day Total	24	0	0	1	13	76	302	481	261	58	7	1	0	0	1224	44.50	702
Percent	2%	0%	0%	0.1%	1.1%	6.2%	24.7%	39.3%	21.3%	4.7%	0.6%	0.1%	0%	0%	1224	41-50	783
AM Peak Volume	10:00 AM 4	12:00 AM 0	12:00 AM 0	12:00 AM 0	7:00 AM 6	11:00 AM 13	10:00 AM 26	11:00 AM 37	8:00 AM 17	11:00 AM 6	6:00 AM 1	12:00 AM 0	12:00 AM 0	12:00 AM 0	11:00 AM 94		
PM Peak Volume	3:00 PM 4	12:00 PM 0	12:00 PM 0	9:00 PM 1	12:00 PM 2	1:00 PM 10	4:00 PM 29	4:00 PM 65	3:00 PM 41	3:00 PM 6	3:00 PM 2	4:00 PM 1	12:00 PM 0	12:00 PM 0	4:00 PM 125		

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB

DATE: Apr 5 2023

Number Total Pace Speed Start Time in Pace 12:00 AM 41-50 01:00 AM 36-45 02:00 AM 41-50 03:00 AM 51-60 04:00 AM 41-50 05:00 AM 41-50 06:00 AM 46-55 07:00 AM 41-50 08:00 AM 41-50 09:00 AM 41-50 10:00 AM 46-55 11:00 AM 41-50 12:00 PM 41-50 01:00 PM O 46-55 02:00 PM 41-50 03:00 PM 41-50 04:00 PM 41-50 05:00 PM 46-55 06:00 PM O 46-55 07:00 PM 46-55 08:00 PM 41-50 09:00 PM 41-50 10:00 PM 41-50 11:00 PM 43-52 O **Day Total** 41-50 0% 0.1% 0.2% 1% 5.4% 24% 39.5% 20.1% 6.5% 0.9% 0.2% 0% 0% Percent 2.1% **AM Peak** 5:00 AM 12:00 AM 10:00 AM 1:00 AM 7:00 AM 8:00 AM 10:00 AM 9:00 AM 10:00 AM 10:00 AM 10:00 AM 12:00 AM 12:00 AM 10:00 AM Volume PM Peak 6:00 PM 12:00 PM 12:00 PM 12:00 PM 12:00 PM 2:00 PM 4:00 PM 4:00 PM 5:00 PM 5:00 PM 6:00 PM 6:00 PM 12:00 PM 12:00 PM 4:00 PM Volume

Comments:

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124308 **DIRECTION: EB DATE**: Δnr 6 2023

-A	/STATE: Shast														DATE: Ap	or 6 202
16	Time 1	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numb
20	15	25	30	35	40	45	50	55	60	65	70	75	999	IOLAI	Pace Speed	in Pac
0	0 AM 0	0	0	0	0	2	6	3	0	0	0	0	0	11	46-55	9
0	0 AM 0	0	0	0	0	0	1	1	0	0	0	0	0	2	46-55	2
0	0 AM 0	0	0	0	0	4	3	0	2	0	0	0	0	9	41-50	7
0	0 AM 0	0	0	0	0	2	3	1	1	0	0	0	0	7	41-50	5
0	0 AM 0	0	0	0	2	1	3	2	0	1	0	0	0	9	46-55	5
0	00 AM 1	0	0	0	2	11	15	5	0	0	0	0	0	34	41-50	26
0	0 AM 0	0	0	1	1	14	16	13	2	0	0	0	0	47	41-50	30
0	00 AM 1	0	0	0	2	23	25	14	3	0	0	0	0	68	41-50	48
0	0 AM 0	0	0	0	1	19	39	17	5	0	0	0	0	81	41-50	58
0	00 AM 1	0	0	0	2	18	36	22	4	0	0	0	0	83	46-55	58
0	00 AM 3	0	0	0	3	11	29	22	5	2	0	0	0	75	46-55	51
0	0 AM 0	0	0	0	8	26	41	14	7	0	0	0	0	96	41-50	67
0	00 PM 1	0	0	0	7	23	35	16	6	0	0	0	0	88	41-50	58
0	00 PM 1	0	0	2	8	16	41	16	6	1	0	0	0	91	43-52	57
0	00 PM 0	0	0	0	5	19	44	27	4	0	0	0	0	99	46-55	71
0	00 PM 2	0	0	3	3	27	39	20	9	0	0	0	0	103	41-50	66
0	00 PM 2	0	0	0	7	48	40	18	6	1	1	0	0	123	41-50	88
0	00 PM 0	0	0	1	2	13	35	24	7	0	0	0	0	82	46-55	59
0	00 PM 0	0	0	0	1	14	35	19	2	0	0	0	0	71	46-55	54
0	00 PM 1	0	0	0	1	8	21	10	3	1	0	0	0	45	46-55	31
0	00 PM 0	0	0	1	5	8	14	3	0	2	0	0	0	33	41-50	22
0	00 PM 0	0	0	3	7	5	6	1	0	0	0	0	0	22	36-45	12
0	00 PM 0	0	0	0	1	5	1	4	0	0	0	0	0	11	39-48	6
0	00 PM 0	0	0	0	1	3	2	0	0	0	0	0	0	6	41-50	5
0	Total 13	0	0	11	69	320	530	272	72	8	1	0	0	1296	41-50	850
0%	cent 1%	0%	0%	0.8%	5.3%	24.7%	40.9%	21%	5.6%	0.6%	0.1%	0%	0%	1290	41-30	830
				6:00 AM										11:00 AM		
0																
12:00 PM 1				3:00 PM 3	1:00 PM 8	4:00 PM 48	2:00 PM 44	2:00 PM 27		8:00 PM 2				4:00 PM 123		
			-	-					-	=	_	-	-			
12:0	ume 3	0 0 PM	0 0 0 PM 12:00 PM	0 PM 12:00 PM 12:00 PM	0 0 0 1 0 PM 12:00 PM 12:00 PM 3:00 PM	0 0 0 1 8 0 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM	0 0 0 1 8 26 0 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM 4:00 PM	0 0 0 1 8 26 41 0 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM 4:00 PM 2:00 PM	0 0 0 1 8 26 41 22 0 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM 4:00 PM 2:00 PM 2:00 PM	0 0 0 1 8 26 41 22 7 0 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM 4:00 PM 2:00 PM 2:00 PM 3:00 PM	0 0 0 1 8 26 41 22 7 2 0 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM 4:00 PM 2:00 PM 2:00 PM 3:00 PM 8:00 PM	0 0 0 1 8 26 41 22 7 2 0 0 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM 4:00 PM 2:00 PM 2:00 PM 3:00 PM 8:00 PM 4:00 PM	0 0 0 1 8 26 41 22 7 2 0 0 0 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM 4:00 PM 2:00 PM 2:00 PM 3:00 PM 8:00 PM 4:00 PM 12:00 PM	0 0 0 1 8 26 41 22 7 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 8 26 41 22 7 2 0 0 0 0 96 0 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM 4:00 PM 2:00 PM 2:00 PM 2:00 PM 8:00 PM 4:00 PM 12:00 PM 12:00 PM 4:00 PM	0 0 0 1 8 26 41 22 7 2 0 0 0 96 0 PM 12:00 PM 12:00 PM 3:00 PM 1:00 PM 4:00 PM 2:00 PM 2:00 PM 3:00 PM 8:00 PM 4:00 PM 12:00 PM 12:00 PM 4:00 PM

LOCATION: WI	3 SR 299	west of B	unch Gra	ss Lookou	t Rd											QC JOB	#: 16124308
SPECIFIC LOCA	TION:															DI	RECTION: EB
CITY/STATE: SI	nasta, CA														DAT	E: Apr 4 2023	- Apr 6 2023
Speed Range	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in
Speed Range	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	r acc speca	Pace
Grand Total	64	0	1	3	37	214	927	1512	788	213	26	4	0	0	3789	41-50	2439
Percent	1.7%	0%	0%	0.1%	1%	5.6%	24.5%	39.9%	20.8%	5.6%	0.7%	0.1%	0%	0%	3763	41-30	2433
Cumulative Percent	1.7%	1.7%	1.7%	1.8%	2.8%	8.4%	32.9%	72.8%	93.6%	99.2%	99.9%	100%	100%	100%			
ADT 1263															Mea	an Speed(Avera Med	ntile: 52 MPH age): 47 MPH dian: 47 MPH ode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB

DATE: Apr 4 2023

Start lime	LITY/STATE: Sh		Cars &	2 Axle		2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Apr 4 2023
12:00 AM	Start Time	Bikes			Buses											Total
01:00 AM	12:00 AM	0			0											8
02:00 AM																2
03:00 AM		_			0					0					0	3
05:00 AM				0	0	1	0			0	0	0	0	0	0	2
06:00 AM	04:00 AM			0	0	0	0	0	2	0	0	0	0	0	1	9
OFFICIAL	05:00 AM	0	17	1	0	3	0	0	4	0	0	1	0	0	0	26
08:00 AM	06:00 AM	0	26	21	0	1	0	0	2	0	0	0	0	0	0	50
08:00 AM	07:00 AM	0	44	15	0	4	0	0	11	0	0	0	0	0	1	75
10:00 AM	08:00 AM	0			0	6	0	0		1	0	0	0	0	1	78
11:00 AM	09:00 AM	0	55		0	7	0	0	5	0	0	0	0	0	1	82
12:00 PM	10:00 AM	0	36	16	0	3	0	0	9	0	0	0	0	0	4	68
01:00 PM	11:00 AM	0	62	16	0	8	0	0	7	0	0	0	0	0	1	94
02:00 PM	12:00 PM	0	48	6	0	7	0	0	10	0	0	1	0	0	0	72
03:00 PM	01:00 PM	0	61	11	0	3	0	0	7	1	0	0	0	0	1	84
04:00 PM	02:00 PM	0	52	9	0	7	0	0	5	0	0	2	0	0	3	78
05:00 PM	03:00 PM	0	70	14	1	1	0	0	3	1	0	3	0	0	4	97
O6:00 PM 07:00 PM 08:00 PM 09:00 PM 00 0 29 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	04:00 PM	0	98	18	0	1	0	0	5	0	0	0	0	0	3	125
07:00 PM	05:00 PM	0	73	11	0	1	0	0	3	0	0	0	0	0	2	90
08:00 PM	06:00 PM	0	53	9	0	2	0	0	3	0	0	0	0	0	2	69
09:00 PM 0	07:00 PM	0	29	4	0	0		0	1	0	0	0	0	0	0	34
10:00 PM	08:00 PM	0	25	5	0	1	0	0	1	0	0	0	0	0	0	32
11:00 PM	09:00 PM	0	23	1	0	1	0	0	3	0	0	0	0	0	0	28
Day Total Percent 0 863 70.5% 181 1 59 0 0 0 0 866 3 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10:00 PM	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
ADT 1224 AM Peak Volume 0 98 18 1 7 0 0 0 10 10 1 0 3 0 0 0 0 0 0 0 0 0 0 0	11:00 PM	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
ADT 1224 AM Peak Volume 0 98 18 1 7 0 0 0 10 10 1 0 3 3 0 0 0 4	Day Total															1224
1224 Image: Light of the control of the c	Percent	0%	70.5%	14.8%	0.1%	4.8%	0%	0%	7%	0.2%	0%	0.6%	0%	0%	2%	1224
Volume 0 62 21 0 8 0 0 11 1 0 1 0 0 4 PM Peak Volume 12:00 PM 4:00 PM 3:00 PM 12:00 PM																
PM Peak Volume 12:00 PM 4:00 PM 4:00 PM 3:00 PM 12:00 PM	AM Peak	12:00 AM	11:00 AM	6:00 AM	12:00 AM	11:00 AM	12:00 AM	12:00 AM	7:00 AM	8:00 AM	12:00 AM	5:00 AM	12:00 AM	12:00 AM	10:00 AM	11:00 AV
Volume 0 98 18 1 7 0 0 10 1 0 3 0 0 4	Volume	0	62	21	0	8	0	0	11	1	0	1	0	0	4	94
Volume 0 98 18 1 7 0 0 10 1 0 3 0 0 4	PM Peak	12:00 PM	4:00 PM	4:00 PM	3:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 PM	3:00 PM	12:00 PM	12:00 PM	3:00 PM	4:00 PM
																125
omments:	omments:															

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB

DATE: Apr 5 2023

CITY/STATE: Sr	<u> </u>	Cars &	2 Axle		2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Apr 5 2023
Start Time	Bikes	Trailers	Long	Buses	Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Classed	Total
12:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
01:00 AM	0	2	0	0	0	0	0	2	0	0	0	0	0	0	4
02:00 AM	0	4	0	0	1	0	0	1	0	0	0	0	0	0	6
03:00 AM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
04:00 AM	0	6	1	0	1	0	0	0	0	0	0	0	0	0	8
05:00 AM	0	13	3	0	0	0	0	3	0	0	0	0	0	2	21
06:00 AM	0	21	14	0	6	0	0	6	0	0	1	0	0	1	49
07:00 AM	0	36	17	0	4	0	0	4	0	0	2	0	0	2	65
08:00 AM	0	46	11	0	9	0	0	8	0	0	0	0	0	1	75
09:00 AM	0	55	11	0	8	0	0	7	0	0	1	0	0	2	84
10:00 AM	0	66	12	0	6	1	0	11	0	0	0	0	0	1	97
11:00 AM	0	48	12	0	3	1	0	5	0	0	1	0	0	0	70
12:00 PM	0	50	10	0	4	0	0	5	0	0	1	0	0	0	70
01:00 PM	0	64	8	0	7	0	0	4	0	0	0	0	0	1	84
02:00 PM	0	74	8	0	3	0	0	5	0	0	0	0	0	0	90
03:00 PM	0	74	18	0	5	0	0	4	0	0	0	0	0	2	103
04:00 PM	0	98	20	0	2	0	0	8	0	0	2	0	0	3	133
05:00 PM	0	83	13	0	3	0	0	1	0	0	1	0	0	3	104
06:00 PM	0	53	8	0	2	0	0	2	0	0	0	0	0	5	70
07:00 PM	0	30	3	0	1	0	0	0	0	0	0	0	0	2	36
08:00 PM	0	30	3	0	0	0	0	3	0	0	0	0	0	0	36
09:00 PM	1	19	3	0	0	0	0	2	0	0	0	0	0	1	26
10:00 PM	0	20	1	0	0	0	0	0	0	0	0	0	0	0	21
11:00 PM	0	8	2	0	0	0	0	1	0	0	0	0	0	1	12
Day Total	1	903	179	0	66	2	0	82	0	0	9	0	0	27	1269
Percent	0.1%	71.2%	14.1%	0%	5.2%	0.2%	0%	6.5%	0%	0%	0.7%	0%	0%	2.1%	
ADT 1269															
AM Peak	12:00 AM	10:00 AM	7:00 AM	12:00 AM	8:00 AM	10:00 AM	12:00 AM	10:00 AM	12:00 AM	12:00 AM	7:00 AM	12:00 AM	12:00 AM	5:00 AM	10:00 AN
Volume	0	66	17	0	9	1	0	11	0	0	2	0	0	2	97
PM Peak	9:00 PM	4:00 PM	4:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	6:00 PM	4:00 PM
Volume	1	98	20	0	7	0	0	8	0	0	2	0	0	5	133
mments:															
		22 4 55 514													

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124308 DIRECTION: EB DATE: Anr 6 2023

CITY/STATE: Sh	iasta, CA														Apr 6 202
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	10	0	0	1	0	0	0	0	0	0	0	0	0	11
01:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00 AM	0	5	2	0	1	0	0	1	0	0	0	0	0	0	9
03:00 AM	0	4	1	0	1	0	0	1	0	0	0	0	0	0	7
04:00 AM	0	5	2	0	0	0	0	2	0	0	0	0	0	0	9
05:00 AM	0	16	3	0	4	0	0	8	0	0	2	0	0	1	34
06:00 AM	0	22	16	0	4	0	0	5	0	0	0	0	0	0	47
07:00 AM	0	46	10	0	4	0	0	7	0	0	0	0	0	1	68
08:00 AM	0	55	12	0	3	0	0	11	0	0	0	0	0	0	81
09:00 AM	0	57	7	0	8	0	0	10	0	0	0	0	0	1	83
10:00 AM	0	50	6	0	6	0	0	10	0	0	0	0	0	3	75
11:00 AM	0	68	14	0	5	0	0	8	0	0	1	0	0	0	96
12:00 PM	0	59	12	0	7	0	0	8	1	0	0	0	0	1	88
01:00 PM	1	65	12	0	8	0	0	4	0	0	0	0	0	1	91
02:00 PM	0	84	9	1	4	0	0	0	0	0	1	0	0	0	99
03:00 PM	0	80	15	0	4	0	0	2	0	0	0	0	0	2	103
04:00 PM	0	96	16	0	3	0	0	6	0	0	0	0	0	2	123
05:00 PM	0	65	13	0	1	0	0	3	0	0	0	0	0	0	82
06:00 PM	0	61	7	0	2	0	0	1	0	0	0	0	0	0	71
07:00 PM	0	36	4	0	2	0	0	2	0	0	0	0	0	1	45
08:00 PM	1	28	2	0	2	0	0	0	0	0	0	0	0	0	33
09:00 PM	0	17	4	0	1	0	0	0	0	0	0	0	0	0	22
10:00 PM	0	7	3	0	0	0	0	1	0	0	0	0	0	0	11
11:00 PM	0	5	0	0	1	0	0	0	0	0	0	0	0	0	6
Day Total	2	943	170	1	72	0	0	90	1	0	4	0	0	13	1296
Percent	0.2%	72.8%	13.1%	0.1%	5.6%	0%	0%	6.9%	0.1%	0%	0.3%	0%	0%	1%	1290
ADT 1296															
AM Peak	12:00 AM	11:00 AM	6:00 AM	12:00 AM	9:00 AM	12:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	5:00 AM	12:00 AM	12:00 AM	10:00 AM	11:00 AI
Volume	0	68	16	0	8	0	0	11	0	0	2	0	0	3	96
PM Peak	1:00 PM	4:00 PM	4:00 PM	2:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	3:00 PM	4:00 PN
Volume	1	96	16	1	8	0	0	8	1	0	1	0	0	2	123
mments:															

LOCATION: WB SR 299 west of Bunch Grass Lookout Rd

SPECIFIC LOCATION:

CITY/STATE: Shasta, CA

DATE: Apr 4 2023 - Apr 6 2023

tart Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
rand Total Percent	3 0.1%	2709 71.5%	530 14%	2 0.1%	197 5.2%	2 0.1%	0 0%	258 6.8%	4 0.1%	0 0%	20 0.5%	0 0%	0 0%	64 1.7%	3789
ADT 1263															

Report generated on 4/11/2023 4:55 PM



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB

DATE: Apr 4 2023 - Apr 6 2023

Start Time	Mon	Tue 4 Apr 23	Wed 5 Apr 23	Thu 6 Apr 23	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		8	2	11		7			7	
01:00 AM		2	4	2		3			3	
02:00 AM		3	6	9		6			6	
03:00 AM		2	3	7		4			4	
04:00 AM		9	8	9		9			9	
05:00 AM		26	21	34		27			27	
06:00 AM		50	49	47		49			49	
07:00 AM		75	65	68		69			69	
08:00 AM		78	75	81		78			78	
09:00 AM		82	84	83		83			83	
10:00 AM		68	97	75		80			80	
11:00 AM		94	70	96		87			87	
12:00 PM		72	70	88		77			77	
01:00 PM		84	84	91		86			86	
02:00 PM		78	90	99		89			89	
03:00 PM		97	103	103		101			101	
04:00 PM		125	133	123		127			127	
05:00 PM		90	104	82		92			92	
06:00 PM		69	70	71		70		In	70	
07:00 PM		34	36	45		38	\cdot	411	38	
08:00 PM		32	36	33		34			34	
09:00 PM		28	26	22		25	0.000		25	
10:00 PM		11	21	11		14	DIVIN	UNII	14	
11:00 PM		7	12	6		8			8	
Day Total		1224	1269	1296		1263			1263	
% Weekday Average		96.9%	100.5%	102.6%						
% Week Average		96.9%	100.5%	102.6%		100%				
AM Peak Volume		11:00 AM 94	10:00 AM 97	11:00 AM 96		11:00 AM 87			11:00 AM 87	
PM Peak Volume		4:00 PM 125	4:00 PM 133	4:00 PM 123		4:00 PM 127			4:00 PM 127	

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124308 **DIRECTION:** EB, WB DΔTF: Δnr 4 2023

CITY/STATE:	Shasta,	CA														DATE: A	pr 4 202
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
	15	20	25	30	35	40	45	50	55	60	65	70	75	999		· use speed	in Pac
12:00 AM	0	0	0	0	0	3	2	5	0	0	0	0	0	0	10	41-50	7
01:00 AM	0	0	0	0	0	0	0	2	3	0	0	0	0	0	5	46-55	5
02:00 AM	0	0	0	0	0	2	4	2	1	0	0	0	0	0	9	41-50	6
03:00 AM	1	0	0	0	0	0	0	3	4	1	0	0	0	0	9	46-55	7
04:00 AM	1	0	0	0	2	2	1	7	2	2	1	0	0	0	18	46-55	9
05:00 AM	0	0	2	0	1	6	13	22	5	4	0	0	0	0	53	41-50	35
06:00 AM	1	0	0	0	0	3	24	37	11	8	1	0	0	0	85	41-50	61
07:00 AM	1	0	0	0	6	10	24	66	32	3	1	1	0	0	144	46-55	98
08:00 AM	1	0	0	0	0	2	39	75	45	9	0	0	0	0	171	46-55	120
09:00 AM	2	0	0	0	0	10	46	74	39	6	1	1	0	0	179	41-50	120
10:00 AM	7	0	0	0	0	11	41	67	36	13	2	0	0	0	177	41-50	108
11:00 AM	2	0	0	0	1	15	31	79	43	14	1	0	0	0	186	46-55	122
12:00 PM	1	0	0	1	3	13	34	61	41	12	3	1	0	0	170	46-55	102
01:00 PM	1	0	0	0	0	11	41	77	38	9	2	0	0	0	179	41-50	118
02:00 PM	3	0	0	0	1	12	26	66	64	12	1	0	0	0	185	46-55	130
03:00 PM	4	0	0	0	0	4	26	58	66	20	2	0	0	0	180	46-55	124
04:00 PM	4	0	0	1	3	1	41	111	46	9	1	1	0	0	218	46-55	157
05:00 PM	3	0	0	0	0	3	33	67	43	10	3	0	0	0	162	46-55	110
06:00 PM	3	0	0	0	3	1	25	35	43	6	1	0	0	0	117	46-55	78
07:00 PM	0	0	0	0	0	1	15	29	23	4	4	0	0	0	76	46-55	52
08:00 PM	0	0	0	0	1	5	15	19	5	0	0	0	0	0	45	41-50	34
09:00 PM	0	0	0	1	1	7	10	7	4	3	1	0	0	0	34	36-45	17
10:00 PM	0	0	0	0	0	0	5	6	2	4	0	0	0	0	17	41-50	11
11:00 PM	0	0	0	1	1	0	3	5	1	2	0	0	0	0	13	41-50	8
Day Total	35	0	2	4	23	122	499	980	597	151	25	4	0	0	2442	46-55	1577
Percent	1.4%	0%	0.1%	0.2%	0.9%	5%	20.4%	40.1%	24.4%	6.2%	1%	0.2%	0%	0%	2442	40-33	13//
AM Peak Volume	10:00 AM 7	12:00 AM 0	5:00 AM 2	12:00 AM 0	7:00 AM 6	11:00 AM 15	9:00 AM 46	11:00 AM 79	8:00 AM 45	11:00 AM 14	10:00 AM 2	7:00 AM 1	12:00 AM 0	12:00 AM 0	11:00 AM 186		
PM Peak Volume	3:00 PM 4	12:00 PM 0	12:00 PM 0	12:00 PM 1	12:00 PM 3	12:00 PM 13	1:00 PM 41	4:00 PM 111	3:00 PM 66	3:00 PM 20	7:00 PM 4	12:00 PM 1	12:00 PM 0	12:00 PM 0	4:00 PM 218		

SPECIFIC LOCATION:

QC JOB #: 16124308 DIRECTION: EB, WB DATE: Apr 5 2023

CITY/STATE: Shasta, CA

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
ture rime	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	race speed	in Pac
12:00 AM	0	0	0	0	0	0	3	4	0	0	0	0	0	0	7	41-50	7
01:00 AM	0	0	0	1	0	1	2	1	0	0	0	0	0	0	5	41-50	3
02:00 AM	0	0	0	0	0	1	2	4	0	2	0	0	0	0	9	41-50	6
03:00 AM	0	0	0	0	0	1	0	1	2	2	0	0	0	0	6	51-60	4
04:00 AM	0	0	0	0	0	1	3	8	3	0	0	0	0	0	15	41-50	11
05:00 AM	2	0	0	2	0	1	12	14	15	5	0	1	0	0	52	46-55	29
06:00 AM	4	0	0	0	0	4	11	42	25	11	1	0	0	0	98	46-55	67
07:00 AM	5	0	0	1	7	8	21	39	34	14	2	1	1	0	133	46-55	73
08:00 AM	2	0	0	0	1	8	35	83	42	17	2	0	0	0	190	46-55	125
09:00 AM	3	0	1	0	1	3	29	77	50	8	2	2	0	0	176	46-55	127
10:00 AM	4	0	1	0	0	4	35	82	59	15	4	0	0	0	204	46-55	141
11:00 AM	3	0	0	0	1	15	42	56	33	15	4	1	0	0	170	41-50	98
12:00 PM	1	0	0	0	4	6	36	59	44	19	2	0	0	0	171	46-55	103
01:00 PM	4	0	0	0	1	2	40	87	35	15	1	0	0	0	185	41-50	127
02:00 PM	2	0	0	0	1	11	42	71	35	4	2	0	0	0	168	41-50	113
03:00 PM	3	0	0	0	0	9	54	71	48	17	1	0	1	0	204	41-50	125
04:00 PM	5	0	0	0	2	8	47	88	43	13	1	0	0	0	207	41-50	135
05:00 PM	5	0	0	0	0	5	39	68	62	16	1	0	0	0	196	46-55	130
06:00 PM	6	0	0	0	0	1	10	58	28	11	4	2	0	0	120	46-55	86
07:00 PM	4	0	0	0	0	3	9	23	15	4	1	0	0	0	59	46-55	38
08:00 PM	0	0	0	0	2	5	12	22	5	1	0	0	0	0	47	41-50	34
09:00 PM	2	0	0	0	1	9	8	11	8	0	0	0	0	0	39	43-52	19
10:00 PM	0	0	0	0	0	3	8	13	5	0	0	0	0	0	29	41-50	21
11:00 PM	1	0	0	0	2	2	3	5	2	1	0	0	0	0	16	41-50	8
Day Total Percent	56 2.2%	0 0%	2 0.1%	4 0.2%	23 0.9%	111 4.4%	503 20.1%	987 39.4%	593 23.7%	190 7.6%	28 1.1%	7 0.3%	2 0.1%	0 0%	2506	46-55	1580
AM Peak Volume	7:00 AM 5	12:00 AM 0	9:00 AM 1	5:00 AM 2	7:00 AM 7	11:00 AM 15	11:00 AM 42	8:00 AM 83	10:00 AM 59	8:00 AM 17	10:00 AM 4	9:00 AM 2	7:00 AM 1	12:00 AM 0	10:00 AM 204		
PM Peak Volume	6:00 PM 6	12:00 PM 0	12:00 PM 0	12:00 PM 0	12:00 PM 4	2:00 PM 11	3:00 PM 54	4:00 PM 88	5:00 PM 62	12:00 PM 19	6:00 PM 4	6:00 PM 2	3:00 PM 1	12:00 PM 0	4:00 PM 207		

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124308 **DIRECTION:** EB, WB DΔTF: Δnr 6 2023

Shasta, (CA														DATE: Ap	or 6 202
1	16	21	26	31	36	41	46	51	56	61	66	71	76	Tatal	Dage Chand	Numb
15	20	25	30	35	40	45	50	55	60	65	70	75	999	TOLAI	Pace Speed	in Pac
0	0	0	0	0	3	3	8	3	0	0	0	0	0	17	41-50	11
0	0	0	0	0	0	2	2	1	0	0	0	0	0	5	41-50	4
0	0	0	0	0	0	5	6	3	2	0	0	0	0	16	41-50	11
0	0	0	0	0	0	6	7	3	5	2	0	0	0	23	41-50	13
1	0	0	0	0	4	1	4	2	0	2	0	0	0	14	46-55	6
1	0	0	0	0	2	14	27	13	4	2	1	0	0	64	41-50	41
1	0	0	0	1	1	21	25	29	17	2	0	0	0	97	46-55	54
1	0	0	0	0	2	27	51	34	15	6	0	0	0	136	46-55	85
2	0	0	0	0	4	33	85	53	15	4	0	0	0	196	46-55	138
5	0	0	0	0	5	33	74	56	16	1	0	0	0	190	46-55	130
6	0	0	0	2	5	28	72	51	18	4	0	0	0	186	46-55	123
4	0	0	0	0	9	43	75	43	17	1	0	0	0	192	41-50	118
5	0	0	0	0	9	39	77	41	13	1	0	0	0	185	46-55	118
2	0	0	0	2	10	38	84	43	18	2	0	0	0	199	46-55	127
4	0	0	1	0	9	36	80	58	9	1	0	0	0	198	46-55	138
3	0	0	0	3	13	41	92	59	23	2	0	0	0	236	46-55	151
6	0	0	0	0	12	63	82	39	14	4	2	0	0	222	41-50	145
1	0	0	0	1	4	22	70	47	11	6	0	0	0	162	46-55	117
1	0	0	0	0	2	16	52	30	9	1	0	1	0	112	46-55	82
2	0	0	0	1	3	14	26	17	5	1	0	0	0	69	46-55	43
1	0	0	0	1	6	13	18	5	0	3	1	0	0	48	41-50	31
1	0	0	0	3	11	12	8	3	1	0	0	0	0	39	36-45	23
0	0	0	0	0	1	7	2	6	0	0	0	0	0	16	41-50	9
0	0	0	0	1	1	3	3	1	0	0	0	0	0	9	41-50	6
47	0	0	1	15	116	520	1030	640	212	45	4	1	0	2621	46 55	1670
1.8%	0%	0%	0%	0.6%	4.4%	19.8%	39.1%	24.3%	8.1%	1.7%	0.2%	0%	0%	2031	40-33	10/0
							8:00 AM	9:00 AM	10:00 AM	7:00 AM				8:00 AM		
Ь	U	U	1	3	13	63	92	59	23	ь	2	1	U	236		
	1 15 0 0 0 0 1 1 1 1 1 2 2 5 6 6 4 4 5 5 2 4 4 3 3 6 6 1 1 1 2 2 1 1 1 0 0 0 47 1.8%	1 16 15 20 0 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 0 5 0 0 6 0 0 4 0 0 5 0 0 2 0 0 4 0 0 3 0 0 6 0 1 0 1 0 0 2 0 1 0 1 1 0 2 1 0 1 1 0 2 0 1 0 1 1 0 2 0 0 1 0 0 0 0 0 0 47 0 0 1.8% 0%	1 16 21 15 20 25 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 2 0 0 5 0 0 6 0 0 4 0 0 2 0 0 4 0 0 3 0 0 6 0 0 1 0 0 2 0 0 4 0 0 3 0 0 6 0 0 1 0 0 2 0 0 1 8% 0% 0%	1 16 21 26 15 20 25 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0	1 16 21 26 31 15 20 25 30 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 16 21 26 31 36 15 20 25 30 35 40 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0	1 16 21 26 31 36 41 15 20 25 30 35 40 45 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0	1 16 21 26 31 36 41 46 15 20 25 30 35 40 45 50 0 0 0 0 0 0 0 0 0 2 2 0 0 0 0 0 0 0	1 16 21 26 31 36 41 46 51 15 20 25 30 35 40 45 50 55 0 0 0 0 0 0 0 0 3 3 3 8 3 0 0 0 0 0 0 0 0 0 2 2 2 1 0 0 0 0 0 0 0 0 0 5 6 3 1 0 0 0 0 0 0 0 0 6 7 3 1 0 0 0 0 0 0 0 4 1 4 2 2 1 0 0 0 0 0 0 0 2 14 27 13 1 0 0 0 0 0 0 1 1 1 1 21 25 29 1 0 0 0 0 0 0 0 2 2 7 51 34 2 0 0 0 0 0 0 0 2 2 7 51 34 2 0 0 0 0 0 0 4 33 85 53 5 0 0 0 0 0 0 0 4 33 85 53 5 0 0 0 0 0 0 5 33 74 56 6 0 0 0 0 0 2 5 28 72 51 4 0 0 0 0 0 0 5 33 74 56 6 0 0 0 0 0 0 9 39 77 41 2 0 0 0 0 0 0 9 39 77 41 2 0 0 0 0 0 0 9 39 77 41 2 0 0 0 0 0 0 9 39 77 41 2 0 0 0 0 0 0 9 38 84 43 4 0 0 1 0 0 9 36 80 58 3 0 0 0 0 0 1 4 2 2 70 47 1 0 0 0 0 1 4 2 2 70 47 1 0 0 0 0 1 4 2 2 70 47 1 0 0 0 0 1 3 13 41 92 59 6 0 0 0 0 0 1 3 13 41 92 59 6 0 0 0 0 0 1 4 2 63 82 39 1 0 0 0 0 0 1 4 2 63 82 39 1 0 0 0 0 0 1 3 13 14 26 17 1 0 0 0 0 0 1 3 13 14 26 17 1 0 0 0 0 0 1 3 13 14 26 17 1 0 0 0 0 0 1 3 13 14 26 17 1 0 0 0 0 0 1 3 11 12 8 3 0 0 0 0 0 0 1 1 3 14 26 17 1 0 0 0 0 0 1 3 11 12 8 3 0 0 0 0 0 0 0 1 1 3 18 5 1 0 0 0 0 0 1 1 3 14 26 17 2 6 0 0 0 0 0 1 1 3 3 1 1 47 0 0 0 1 1 15 116 520 1030 640 1.8% 0% 0% 0% 0% 0.6% 4.4% 19.8% 39.1% 24.3%	1 16 21 26 31 36 41 46 51 56 15 60 15 20 25 30 35 40 45 50 55 60 10 0 0 0 0 0 0 3 3 3 8 3 0 0 0 0 0 0 0 0	1 16 21 26 31 36 41 46 51 56 61 15 20 25 30 35 40 45 50 55 60 65 60 65 60 0 0 0 0 0 0 0 3 3 3 8 3 0 0 0 0 0 0 0	1 16 21 26 31 36 41 46 51 56 61 66 15 20 25 30 35 40 45 50 55 60 65 70 0 0 0 0 0 0 0 0 3 3 8 3 8 3 0 0 0 0 0 0	1 16 21 26 31 36 41 46 51 56 61 66 71 15 20 25 30 35 40 45 50 55 60 65 70 75 0 0 0 0 0 0 0 3 3 3 8 3 0 0 0 0 0 0 0 0 0 0 0 0 0 5 6 3 2 2 1 0 0 0 0 0 0 0 0 0 0 0 0 5 6 3 2 2 1 0 0 0 0 0 0 0 0 0 0 0 4 1 4 2 2 0 2 0 0 0 1 0 0 0 0 0 0 2 14 27 13 4 2 1 0 1 0 0 0 0 0 1 1 1 21 25 29 17 2 0 0 0 1 0 0 0 0 0 0 2 27 51 34 15 6 0 0 2 0 0 0 0 0 0 4 33 85 53 15 4 0 0 2 0 0 0 0 0 4 33 85 53 15 4 0 0 6 0 0 0 0 0 2 2 5 28 72 51 18 4 0 0 6 0 0 0 0 0 2 2 10 38 84 43 18 2 0 0 6 0 0 0 0 0 2 10 38 84 43 18 2 0 0 6 0 0 0 0 0 1 4 0 9 36 80 58 9 1 0 0 1 0 0 0 0 1 4 2 63 82 39 14 4 2 0 1 0 0 0 0 0 1 4 2 63 82 39 14 0 0 1 0 0 0 0 1 4 2 63 82 39 14 0 0 1 0 0 0 0 1 4 2 63 82 39 14 0 0 1 0 0 0 0 1 1 1 0 0 0 1 0 0 0 0 0 0	1 16 21 26 31 36 41 46 51 56 61 66 71 76 15 20 25 30 35 40 45 50 55 60 65 70 75 999 0 0 0 0 0 0 0 0 3 3 3 8 3 0 0 0 0 0 0 0	1 16 21 26 31 36 41 46 51 56 61 66 71 76 101 15 20 25 30 35 40 45 50 55 60 65 70 75 999 Total 15 20 25 30 35 40 45 50 55 60 65 70 75 999 Total 1	1 16 21 26 31 36 41 46 51 56 61 66 71 76 75 999

LOCATION: WI SPECIFIC LOCA		west of B	unch Gra	ss Lookou	ıt Rd												#: 16124308 ION: EB, WB
CITY/STATE: Sh															DAT	E: Apr 4 2023	,
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
Grand Total Percent	138 1.8%	0 0%	4 0.1%	9 0.1%	61 0.8%	349 4.6%	1522 20.1%	2997 39.5%	1830 24.1%	553 7.3%	98 1.3%	15 0.2%	3 0%	0 0%	7579	46-55	4827
Cumulative Percent	1.8%	1.8%	1.9%	2%	2.8%	7.4%	27.5%	67%	91.2%	98.5%	99.8%	100%	100%	100%			
ADT 2526															Mea	an Speed(Avera Med	ntile: 53 MPH age): 47 MPH dian: 47 MPH ode: 48 MPH
Comments:																	

Report generated on 4/11/2023 4:55 PM



SPECIFIC LOCATION:

QC JOB #: 16124308 DIRECTION: EB, WB

DATE: Apr 4 2023

CITY/STATE: SI	nasta, CA														Apr 4 2023
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	7	0	0	1	0	0	2	0	0	0	0	0	0	10
01:00 AM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
02:00 AM	0	5	1	0	1	0	0	2	0	0	0	0	0	0	9
03:00 AM	0	6	1	0	1	0	0	0	0	0	0	0	0	1	9
04:00 AM	0	10	3	0	1	0	0	2	0	0	1	0	0	1	18
05:00 AM	0	34	6	0	3	1	0	7	0	0	2	0	0	0	53
06:00 AM	0	50	27	0	2	0	0	5	0	0	0	0	0	1	85
07:00 AM	0	100	24	0	4	0	0	14	1	0	0	0	0	1	144
08:00 AM	0	119	31	0	7	0	0	12	1	0	0	0	0	1	171
09:00 AM	0	121	32	0	11	1	0	10	0	0	2	0	0	2	179
10:00 AM	0	106	36	0	7	0	0	17	0	0	4	0	0	7	177
11:00 AM	0	121	35	0	15	0	0	11	0	0	2	0	0	2	186
12:00 PM	0	112	25	0	13	0	0	16	0	0	4	0	0	0	170
01:00 PM	0	123	27	0	10	0	0	15	1	0	2	0	0	1	179
02:00 PM	0	122	31	0	13	1	0	13	0	0	2	0	0	3	185
03:00 PM	0	126	36	1	5	0	0	4	1	0	3	0	0	4	180
04:00 PM	0	162	31	0	10	0	0	10	0	0	1	0	0	4	218
05:00 PM	0	134	17	0	1	0	0	5	0	0	2	0	0	3	162
06:00 PM	0	92	14	0	3	0	0	4	0	0	1	0	0	3	117
07:00 PM	0	57	14	0	4	0	0	1	0	0	0	0	0	0	76
08:00 PM	0	36	5	0	1	0	0	3	0	0	0	0	0	0	45
09:00 PM	0	28	1	0	1	0	0	4	0	0	0	0	0	0	34
10:00 PM	0	14	2	0	0	0	0	1	0	0	0	0	0	0	17
11:00 PM	0	9	0	0	1	0	0	1	0	0	2	0	0	0	13
Day Total	0	1699	399	1	115	3	0	159	4	0	28	0	0	34	2442
Percent	0%	69.6%	16.3%	0%	4.7%	0.1%	0%	6.5%	0.2%	0%	1.1%	0%	0%	1.4%	2442
ADT 2442															
AM Peak	12:00 AM	9:00 AM	10:00 AM	12:00 AM	11:00 AM	5:00 AM	12:00 AM	10:00 AM	7:00 AM	12:00 AM	10:00 AM	12:00 AM	12:00 AM	10:00 AM	11:00 AN
Volume	0	121	36	0	15	1	0	17	1	0	4	0	0	7	186
PM Peak	12:00 PM	4:00 PM	3:00 PM	3:00 PM	12:00 PM	2:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM	4:00 PM
Volume	0	162	36	1	13	1	0	16	1	0	4	0	0	4	218
omments:															

SPECIFIC LOCATION:

QC JOB #: 16124308 DIRECTION: EB, WB

DATE: Apr 5 2023

,	nasta, CA	Cars &	2 Axle		2 Axle 6	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	Not	Apr 5 202
Start Time	Bikes	Trailers	2 Axie Long	Buses	Z Axie 6 Tire	Single	4 Axie Single	<5 Axi Double	5 Axie Double	>6 AXI Double	< 6 AXI Multi	6 Axie Multi	>6 Axi Multi	Classed	Total
12:00 AM	0	5	1	0	1	0	0	0	0	0	0	0	0	0	7
01:00 AM	0	2	0	0	0	0	0	3	0	0	0	0	0	0	5
02:00 AM	0	4	0	0	1	0	0	3	0	0	1	0	0	0	9
03:00 AM	0	5	1	0	0	0	0	0	0	0	0	0	0	0	6
04:00 AM	0	9	4	0	1	0	0	1	0	0	0	0	0	0	15
05:00 AM	0	31	8	0	0	1	0	8	0	0	2	0	0	2	52
06:00 AM	0	51	27	0	7	0	0	8	0	0	1	0	0	4	98
07:00 AM	0	75	40	0	5	0	0	6	0	0	2	0	0	5	133
08:00 AM	0	122	40	0	10	0	0	13	0	0	3	0	0	2	190
09:00 AM	0	111	33	0	10	1	0	14	0	0	4	0	0	3	176
10:00 AM	0	136	30	0	13	1	0	13	0	0	7	0	0	4	204
11:00 AM	0	115	24	0	7	1	0	15	0	0	5	0	0	3	170
12:00 PM	0	121	26	0	9	0	0	12	0	0	2	0	0	1	171
01:00 PM	0	125	26	0	16	0	0	14	0	0	0	0	0	4	185
02:00 PM	0	128	20	0	5	0	0	13	0	0	0	0	0	2	168
03:00 PM	0	150	34	0	8	0	0	8	0	0	1	0	0	3	204
04:00 PM	0	157	24	0	8	0	0	11	0	0	2	0	0	5	207
05:00 PM	0	151	24	0	7	0	0	8	0	0	1	0	0	5	196
06:00 PM	0	86	22	0	2	0	0	4	0	0	0	0	0	6	120
07:00 PM	0	43	9	0	1	0	0	1	0	0	1	0	0	4	59
08:00 PM	0	38	4	0	0	0	0	5	0	0	0	0	0	0	47
09:00 PM	1	26	4	0	1	0	0	3	0	0	2	0	0	2	39
10:00 PM	0	26	2	0	0	0	0	1	0	0	0	0	0	0	29
11:00 PM	0	10	2	0	1	0	0	2	0	0	0	0	0	1	16
Day Total	1	1727	405	0	113	4	0	166	0	0	34	0	0	56	2506
Percent	0%	68.9%	16.2%	0%	4.5%	0.2%	0%	6.6%	0%	0%	1.4%	0%	0%	2.2%	2300
ADT 2506															
AM Peak	12:00 AM	10:00 AM	7:00 AM	12:00 AM	10:00 AM	5:00 AM	12:00 AM	11:00 AM	12:00 AM	12:00 AM	10:00 AM	12:00 AM	12:00 AM	7:00 AM	10:00 A
Volume	0	136	40	0	13	1	0	15	0	0	7	0	0	5	204
PM Peak	9:00 PM	4:00 PM	3:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	6:00 PM	4:00 PI
	1	157	34	0	16	0	0	14	0	0	2	0	0	6	207

SPECIFIC LOCATION:

QC JOB #: 16124308 DIRECTION: EB, WB

DATE: Apr 6 2023

ITY/STATE: Sh	iasta, CA														Apr 6 202
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	14	1	0	1	0	0	1	0	0	0	0	0	0	17
01:00 AM	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
02:00 AM	0	8	3	0	2	0	0	3	0	0	0	0	0	0	16
03:00 AM	0	10	6	0	4	0	0	3	0	0	0	0	0	0	23
04:00 AM	0	8	2	0	0	0	0	3	0	0	0	0	0	1	14
05:00 AM	0	35	9	0	6	0	0	10	0	0	3	0	0	1	64
06:00 AM	0	46	28	0	10	0	0	12	0	0	0	0	0	1	97
07:00 AM	0	89	26	0	8	0	0	12	0	0	0	0	0	1	136
MA 00:80	0	125	38	0	12	0	0	19	0	0	0	0	0	2	196
09:00 AM	0	129	23	0	15	0	0	17	0	0	1	0	0	5	190
10:00 AM	0	126	23	0	13	0	0	16	0	0	2	0	0	6	186
11:00 AM	0	138	23	0	14	0	0	10	0	0	3	0	0	4	192
12:00 PM	0	127	22	0	13	0	0	16	1	0	1	0	0	5	185
01:00 PM	1	137	29	0	12	0	0	16	0	0	2	0	0	2	199
02:00 PM	0	155	24	1	10	0	0	2	0	0	2	0	0	4	198
03:00 PM	0	167	39	0	11	0	0	13	0	0	3	0	0	3	236
04:00 PM	0	160	33	1	5	0	0	13	0	0	4	0	0	6	222
05:00 PM	0	131	21	0	3	0	0	5	0	0	1	0	0	1	162
06:00 PM	0	85	18	0	3	0	0	4	0	0	1	0	0	1	112
07:00 PM	0	52	6	0	4	0	0	5	0	0	0	0	0	2	69
08:00 PM	1	39	2	0	3	0	0	2	0	0	0	0	0	1	48
09:00 PM	0	30	5	0	2	0	0	1	0	0	0	0	0	1	39
10:00 PM	0	10	4	0	1	0	0	1	0	0	0	0	0	0	16
11:00 PM	0	8	0	0	1	0	0	0	0	0	0	0	0	0	9
Day Total	2	1833	386	2	153	0	0	184	1	0	23	0	0	47	2631
Percent	0.1%	69.7%	14.7%	0.1%	5.8%	0%	0%	7%	0%	0%	0.9%	0%	0%	1.8%	2031
ADT 2631															
AM Peak	12:00 AM	11:00 AM	8:00 AM	12:00 AM	9:00 AM	12:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	5:00 AM	12:00 AM	12:00 AM	10:00 AM	1A 00:8
Volume	0	138	38	0	15	0	0	19	0	0	3	0	0	6	196
PM Peak	1:00 PM	3:00 PM	3:00 PM	2:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	4:00 PM	3:00 PI
Volume	1	167	39	1	13	0	0	16	1	0	4	0	0	6	236
mments:															

LOCATION: WB SR 299 west of Bunch Grass Lookout Rd

SPECIFIC LOCATION:

CITY/STATE: Shasta, CA

DATE: Apr 4 2023 - Apr 6 2023

CITT/STATE: SITE	ista, CA												DATE:	Api 4 2025 -	Apr 6 2023
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
Grand Total Percent	3 0%	5259 69.4%	1190 15.7%	3 0%	381 5%	7 0.1%	0 0%	509 6.7%	5 0.1%	0 0%	85 1.1%	0 0%	0 0%	137 1.8%	7579
ADT 2526															
Comments:															

Report generated on 4/11/2023 4:55 PM



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: EB, WB DATE: Apr 4 2023 - Apr 6 2023

Start Time	Mon	Tue 4 Apr 23	Wed 5 Apr 23	Thu 6 Apr 23	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
12:00 AM		10	7	17		11			11	
01:00 AM		5	5	5		5			5	
02:00 AM		9	9	16		11			11	
03:00 AM		9	6	23		13			13	
04:00 AM		18	15	14		16			16	
05:00 AM		53	52	64		56			56	
06:00 AM		85	98	97		93			93	
07:00 AM		144	133	136		138			138	
08:00 AM		171	190	196		186			186	
09:00 AM		179	176	190		182			182	
10:00 AM		177	204	186		189			189	
11:00 AM		186	170	192		183			183	
12:00 PM		170	171	185		175			175	
01:00 PM		179	185	199		188			188	
02:00 PM		185	168	198		184			184	
03:00 PM		180	204	236		207			207	
04:00 PM		218	207	222		216			216	
05:00 PM		162	196	162		173			173	
06:00 PM		117	120	112		116		In	116	
07:00 PM		76	59	69		68	$\cdot \cup \cup$	411	68	
08:00 PM		45	47	48		47			47	
09:00 PM		34	39	39		37			37	
10:00 PM		17	29	16		21	OMIM	UNII	21	
11:00 PM		13	16	9		13			13	
Day Total		2442	2506	2631		2528			2528	
% Weekday Average		96.6%	99.1%	104.1%						
% Week Average		96.6%	99.1%	104.1%		100%				
AM Peak		11:00 AM	10:00 AM	8:00 AM		10:00 AM			10:00 AM	
Volume		186	204	196		189			189	
PM Peak		4:00 PM	4:00 PM	3:00 PM		4:00 PM			4:00 PM	
Volume		218	207	236		216			216	

SPECIFIC LOCATION: CITY/STATE: Sharta CA QC JOB #: 16124308 **DIRECTION: WB**

CITY/STATE:	Shasta,	CA														DATE: Ap	
Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Numb in Pac
12:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2	31-40	1
01:00 AM	0	0	0	0	0	0	0	1	2	0	0	0	0	0	3	46-55	3
02:00 AM	0	0	0	0	0	2	3	1	0	0	0	0	0	0	6	36-45	5
03:00 AM	1	0	0	0	0	0	0	3	2	1	0	0	0	0	7	46-55	5
04:00 AM	0	0	0	0	2	1	1	2	1	1	1	0	0	0	9	31-40	3
05:00 AM	0	0	2	0	0	1	6	12	4	2	0	0	0	0	27	41-50	18
06:00 AM	1	0	0	0	0	1	9	16	4	4	0	0	0	0	35	41-50	25
07:00 AM	0	0	0	0	0	1	8	34	22	2	1	1	0	0	69	46-55	56
08:00 AM	0	0	0	0	0	1	17	42	28	5	0	0	0	0	93	46-55	70
09:00 AM	1	0	0	0	0	5	21	42	23	3	1	1	0	0	97	46-55	65
10:00 AM	3	0	0	0	0	6	15	42	30	11	2	0	0	0	109	46-55	72
11:00 AM	1	0	0	0	0	2	12	42	27	8	0	0	0	0	92	46-55	69
12:00 PM	1	0	0	1	1	4	19	34	25	9	3	1	0	0	98	46-55	59
01:00 PM	0	0	0	0	0	1	16	47	25	4	2	0	0	0	95	46-55	72
02:00 PM	0	0	0	0	1	11	11	36	39	8	1	0	0	0	107	46-55	75
03:00 PM	0	0	0	0	0	0	11	33	25	14	0	0	0	0	83	46-55	58
04:00 PM	1	0	0	1	3	0	12	46	25	5	0	0	0	0	93	46-55	71
05:00 PM	1	0	0	0	0	2	13	27	18	8	3	0	0	0	72	46-55	45
06:00 PM	1	0	0	0	3	1	9	12	19	2	1	0	0	0	48	46-55	31
07:00 PM	0	0	0	0	0	1	5	16	14	3	3	0	0	0	42	46-55	30
08:00 PM	0	0	0	0	0	3	3	6	1	0	0	0	0	0	13	41-50	9
09:00 PM	0	0	0	0	0	2	2	0	1	1	0	0	0	0	6	36-45	4
10:00 PM	0	0	0	0	0	0	3	1	1	1	0	0	0	0	6	41-50	4
11:00 PM	0	0	0	1	0	0	1	3	0	1	0	0	0	0	6	41-50	4
Day Total	11	0	2	3	10	46	197	499	336	93	18	3	0	0			
Percent	0.9%	0%	0.2%	0.2%	0.8%	3.8%	16.2%	41%	27.6%	7.6%	1.5%	0.2%	0%	0%	1218	46-55	835
AM Peak Volume	10:00 AM 3	12:00 AM 0	5:00 AM 2	12:00 AM 0	4:00 AM 2	10:00 AM 6	9:00 AM 21	8:00 AM 42	10:00 AM 30	10:00 AM 11	10:00 AM 2	7:00 AM 1	12:00 AM 0	12:00 AM 0	10:00 AM 109		
PM Peak																	
Volume	12:00 PM 1	12:00 PM 0	12:00 PM 0	12:00 PM 1	4:00 PM 3	2:00 PM 11	12:00 PM 19	1:00 PM 47	2:00 PM 39	3:00 PM 14	12:00 PM 3	12:00 PM 1	12:00 PM 0	12:00 PM 0	2:00 PM 107		

LOCATION: WB SR 299 west of Bunch Grass Lookout Rd

SPECIFIC LOCATION:

DIRECTION: WB

CITY/STATE: Shasta CA

DATE: Apr 5 2023

	Shasta,	CA														DATE: Ap	or 5 202
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numb
tart mile	15	20	25	30	35	40	45	50	55	60	65	70	75	999	iotai	1 ace speed	in Pac
12:00 AM	0	0	0	0	0	0	2	3	0	0	0	0	0	0	5	41-50	5
01:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	41-50	1
02:00 AM	0	0	0	0	0	1	0	2	0	0	0	0	0	0	3	41-50	2
03:00 AM	0	0	0	0	0	0	0	1	1	1	0	0	0	0	3	46-55	2
04:00 AM	0	0	0	0	0	1	0	4	2	0	0	0	0	0	7	46-55	6
05:00 AM	0	0	0	2	0	1	6	8	10	3	0	1	0	0	31	46-55	18
06:00 AM	3	0	0	0	0	1	2	22	13	7	1	0	0	0	49	46-55	35
07:00 AM	3	0	0	0	0	1	7	16	24	13	2	1	1	0	68	46-55	40
08:00 AM	1	0	0	0	0	0	19	50	31	13	1	0	0	0	115	46-55	81
09:00 AM	1	0	1	0	0	1	10	32	36	7	2	2	0	0	92	46-55	68
10:00 AM	3	0	0	0	0	1	9	53	30	9	2	0	0	0	107	46-55	83
11:00 AM	3	0	0	0	1	7	21	31	22	10	4	1	0	0	100	46-55	53
12:00 PM	1	0	0	0	3	3	12	36	32	13	1	0	0	0	101	46-55	68
01:00 PM	3	0	0	0	1	2	27	44	18	5	1	0	0	0	101	41-50	71
02:00 PM	2	0	0	0	1	2	20	28	21	2	2	0	0	0	78	46-55	49
03:00 PM	1	0	0	0	0	6	21	35	27	10	0	0	1	0	101	46-55	62
04:00 PM	2	0	0	0	2	2	11	39	13	5	0	0	0	0	74	46-55	52
05:00 PM	2	0	0	0	0	4	18	32	31	5	0	0	0	0	92	46-55	63
06:00 PM	1	0	0	0	0	1	3	27	14	3	1	0	0	0	50	46-55	41
07:00 PM	2	0	0	0	0	3	4	7	6	1	0	0	0	0	23	46-55	13
08:00 PM	0	0	0	0	1	1	2	5	2	0	0	0	0	0	11	45-54	7
09:00 PM	1	0	0	0	0	4	1	5	2	0	0	0	0	0	13	46-55	7
10:00 PM	0	0	0	0	0	0	2	3	3	0	0	0	0	0	8	46-55	6
11:00 PM	0	0	0	0	1	0	1	2	0	0	0	0	0	0	4	41-50	3
Day Total	29	0	1	2	10	42	198	486	338	107	17	5	2	0	1237	46-55	824
Percent	2.3%	0%	0.1%	0.2%	0.8%	3.4%	16%	39.3%	27.3%	8.6%	1.4%	0.4%	0.2%	0%	1237	40-33	024
AM Peak		12:00 AM	9:00 AM	5:00 AM	11:00 AM						11:00 AM			12:00 AM	8:00 AM		
Volume	3	0	1	2	1	7	21	53	36	13	4	2	1	0	115		
PM Peak	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM	1:00 PM	1:00 PM	12:00 PM	12:00 PM	2:00 PM	12:00 PM	3:00 PM	12:00 PM	12:00 PM		
Volume	3	0	0	0	3	6	27	44	32	13	2	0	1	0	101		
Comments:																	

LOCATION: WB SR 299 west of Bunch Grass Lookout Rd

SPECIFIC LOCATION:

DIRECTION: WB

CITY/STATE: Shasta CA

DATE: Apr 6 2023

CITY/STATE:	Shasta,	CA														DATE: A	or 6 2023
Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Numbe
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	race speed	in Pace
12:00 AM	0	0	0	0	0	3	1	2	0	0	0	0	0	0	6	36-45	4
01:00 AM	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3	41-50	3
02:00 AM	0	0	0	0	0	0	1	3	3	0	0	0	0	0	7	46-55	6
03:00 AM	0	0	0	0	0	0	4	4	2	4	2	0	0	0	16	41-50	8
04:00 AM	1	0	0	0	0	2	0	1	0	0	1	0	0	0	5	31-40	2
05:00 AM	0	0	0	0	0	0	3	12	8	4	2	1	0	0	30	46-55	20
06:00 AM	1	0	0	0	0	0	7	9	16	15	2	0	0	0	50	51-60	31
07:00 AM	0	0	0	0	0	0	4	26	20	12	6	0	0	0	68	46-55	46
08:00 AM	2	0	0	0	0	3	14	46	36	10	4	0	0	0	115	46-55	82
09:00 AM	4	0	0	0	0	3	15	38	34	12	1	0	0	0	107	46-55	72
10:00 AM	3	0	0	0	2	2	17	43	29	13	2	0	0	0	111	46-55	72
11:00 AM	4	0	0	0	0	1	17	34	29	10	1	0	0	0	96	46-55	63
12:00 PM	4	0	0	0	0	2	16	42	25	7	1	0	0	0	97	46-55	67
01:00 PM	1	0	0	0	0	2	22	43	27	12	1	0	0	0	108	46-55	70
02:00 PM	4	0	0	1	0	4	17	36	31	5	1	0	0	0	99	46-55	67
03:00 PM	1	0	0	0	0	10	14	53	39	14	2	0	0	0	133	46-55	92
04:00 PM	4	0	0	0	0	5	15	42	21	8	3	1	0	0	99	46-55	63
05:00 PM	1	0	0	0	0	2	9	35	23	4	6	0	0	0	80	46-55	58
06:00 PM	1	0	0	0	0	1	2	17	11	7	1	0	1	0	41	46-55	28
07:00 PM	1	0	0	0	1	2	6	5	7	2	0	0	0	0	24	46-55	12
08:00 PM	1	0	0	0	0	1	5	4	2	0	1	1	0	0	15	41-50	9
09:00 PM	1	0	0	0	0	4	7	2	2	1	0	0	0	0	17	36-45	11
10:00 PM	0	0	0	0	0	0	2	1	2	0	0	0	0	0	5	41-50	3
11:00 PM	0	0	0	0	1	0	0	1	1	0	0	0	0	0	3	46-55	2
Day Total	34	0	0	1	4	47	200	500	368	140	37	3	1	0	1335	46-55	868
Percent	2.5%	0%	0%	0.1%	0.3%	3.5%	15%	37.5%	27.6%	10.5%	2.8%	0.2%	0.1%	0%			
AM Peak	9:00 AM	12:00 AM	12:00 AM	12:00 AM	10:00 AM	12:00 AM	10:00 AM	8:00 AM	8:00 AM	6:00 AM	7:00 AM	5:00 AM	12:00 AM	12:00 AM	8:00 AM		
Volume	4	0	0	0	2	3	17	46	36	15	6	1	0	0	115		
PM Peak	12:00 PM	12:00 PM	12:00 PM	2:00 PM	7:00 PM	3:00 PM	1:00 PM	3:00 PM	3:00 PM	3:00 PM	5:00 PM	4:00 PM	6:00 PM	12:00 PM	3:00 PM		
Volume	4	0	0	1	1	10	22	53	39	14	6	1	1	0	133		
Comments:																	

,, ,			•														
LOCATION: WI SPECIFIC LOCA CITY/STATE: SI	ATION:		Bunch Gra	ss Lookou	ıt Rd										DAT		#: 1612430 ECTION: W - Apr 6 202
Speed Range	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number i
Grand Total Percent	74 2%	0 0%	3 0.1%	6 0.2%	24 0.6%	135 3.6%	595 15.7%	1485 39.2%	1042 27.5%	340 9%	72 1.9%	11 0.3%	3 0.1%	0 0%	3790	46-55	2527
Cumulative Percent	2%	2%	2%	2.2%	2.8%	6.4%	22.1%	61.3%	88.8%	97.7%	99.6%	99.9%	100%	100%			
ADT 1263															Mea		
Comments:																	

Report generated on 4/11/2023 4:55 PM



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: WB

DATE: Apr 4 2023

CITY/STATE: SI	iasta, CA														Apr 4 2023
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
01:00 AM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
02:00 AM	0	3	1	0	0	0	0	2	0	0	0	0	0	0	6
03:00 AM	0	5	1	0	0	0	0	0	0	0	0	0	0	1	7
04:00 AM	0	4	3	0	1	0	0	0	0	0	1	0	0	0	9
05:00 AM	0	17	5	0	0	1	0	3	0	0	1	0	0	0	27
06:00 AM	0	24	6	0	1	0	0	3	0	0	0	0	0	1	35
07:00 AM	0	56	9	0	0	0	0	3	1	0	0	0	0	0	69
MA 00:80	0	62	21	0	1	0	0	9	0	0	0	0	0	0	93
09:00 AM	0	66	18	0	4	1	0	5	0	0	2	0	0	1	97
10:00 AM	0	70	20	0	4	0	0	8	0	0	4	0	0	3	109
11:00 AM	0	59	19	0	7	0	0	4	0	0	2	0	0	1	92
12:00 PM	0	64	19	0	6	0	0	6	0	0	3	0	0	0	98
01:00 PM	0	62	16	0	7	0	0	8	0	0	2	0	0	0	95
02:00 PM	0	70	22	0	6	1	0	8	0	0	0	0	0	0	107
03:00 PM	0	56	22	0	4	0	0	1	0	0	0	0	0	0	83
04:00 PM	0	64	13	0	9	0	0	5	0	0	1	0	0	1	93
05:00 PM	0	61	6	0	0	0	0	2	0	0	2	0	0	1	72
06:00 PM	0	39	5	0	1	0	0	1	0	0	1	0	0	1	48
07:00 PM	0	28	10	0	4	0	0	0	0	0	0	0	0	0	42
08:00 PM	0	11	0	0	0	0	0	2	0	0	0	0	0	0	13
09:00 PM	0	5	0	0	0	0	0	1	0	0	0	0	0	0	6
10:00 PM	0	3	2	0	0	0	0	1	0	0	0	0	0	0	6
11:00 PM	0	2	0	0	1	0	0	1	0	0	2	0	0	0	6
Day Total	0	836	218	0	56	3	0	73	1	0	21	0	0	10	1210
Percent	0%	68.6%	17.9%	0%	4.6%	0.2%	0%	6%	0.1%	0%	1.7%	0%	0%	0.8%	1218
ADT 1218															
AM Peak	12:00 AM	10:00 AM	8:00 AM	12:00 AM	11:00 AM	5:00 AM	12:00 AM	8:00 AM	7:00 AM	12:00 AM	10:00 AM	12:00 AM	12:00 AM	10:00 AM	10:00 AM
Volume	0	70	21	0	7	1	0	9	1	0	4	0	0	3	109
PM Peak	12:00 PM	2:00 PM	2:00 PM	12:00 PM	4:00 PM	2:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	4:00 PM	2:00 PM
Volume	0	70	22	0	9	1	0	8	0	0	3	0	0	1	107
Comments:	_			-			-		-	-					
omments.															

SPECIFIC LOCATION: CITY/STATE: Shasta CA QC JOB #: 16124308 **DIRECTION:** WB DΔTF: Δnr 5 2023

12:00 AM	CITY/STATE: SI	nasta, CA														Apr 5 202
01:00 AM	Start Time	Bikes			Buses											Total
02:00 AM	12:00 AM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
03:00 AM	01:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
04:00 AM	02:00 AM	0	0	0	0	0	0	0	2	0	0	1	0	0	0	3
05:00 AM	03:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
06:00 AM	04:00 AM	0	3	3	0	0	0	0	1	0	0	0	0	0	0	7
07:00 AM	05:00 AM	0	18	5	0	0	1	0	5	0	0	2	0	0	0	31
08:00 AM	06:00 AM	0	30	13	0	1	0	0	2	0	0	0	0	0	3	49
09:00 AM	07:00 AM	0	39	23	0	1	0	0	2	0	0	0	0	0	3	68
10:00 AM	08:00 AM	0	76	29	0	1	0	0	5	0	0	3	0	0	1	115
11:00 AM	09:00 AM	0	56	22	0	2	1	0	7	0	0	3	0	0	1	92
12:00 PM	10:00 AM	0	70	18	0	7	0	0	2	0	0	7	0	0	3	107
01:00 PM	11:00 AM	0	67	12	0	4	0	0	10	0	0	4	0	0	3	100
02:00 PM	12:00 PM	0	71	16	0	5	0	0	7	0	0	1	0	0	1	101
03:00 PM	01:00 PM	0	61	18	0	9	0	0	10	0	0	0	0	0	3	101
O4:00 PM	02:00 PM	0	54	12	0	2	0	0	8	0	0	0	0	0	2	78
05:00 PM	03:00 PM	0	76	16	0	3	0	0	4	0	0	1	0	0	1	101
06:00 PM 0 33 14 0 0 0 0 2 0 0 0 0 1 07:00 PM 0 13 6 0 0 0 0 1 0 0 1 0 0 0 2 08:00 PM 0 8 1 0 0 0 0 2 0 <td>04:00 PM</td> <td>0</td> <td>59</td> <td>4</td> <td>0</td> <td>6</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>74</td>	04:00 PM	0	59	4	0	6	0	0	3	0	0	0	0	0	2	74
07:00 PM 08:00 PM 0 13 08:00 PM 6 0 08:00 PM 0 0 08:00 PM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05:00 PM	0	68	11	0	4	0	0	7	0	0	0	0	0	2	92
08:00 PM 0 8 1 0 0 0 0 2 0<		0			0	0	0	0		0	0	0	0	0		50
09:00 PM 10:00 P	07:00 PM	0	13	6	0	0	0	0	1	0	0	1	0	0	2	23
O9:00 PM O	08:00 PM	0	8	1	0	0	0	0	2	0	0	0	0	0	0	11
11:00 PM 0 2 0 0 1 0 1 0 29 0 29 0 2 0 0 0 25 0 0 0 23% 0 23% 0 23% 0 23% 0 0 23% 0 0 0 25 0	09:00 PM	0	7	1	0	1	0	0	1	0	0	2	0	0	1	13
11:00 PM 0 2 0 0 1 0 0 1 0 29 2 0 2 0 0 25 0 0 0 23% 0 23% 0 2 0 0 25 0 0 0 23% 0 2 0 0 0 2 0 0 0 2 0	10:00 PM	0	6	1	0		0	0	1	0		0	0	0	0	8
ADT 1237 AM Peak Volume 0 76 29 0 7 1 0 100 PM 12:00 PM 1:00 PM 12:00 PM 1:00 PM 12:00 PM 12	11:00 PM	0	2	0	0	1		0	1	0	0	0	0	0	0	4
ADT 1237 AM Peak Volume 0 76 29 0 7 1 0 PM Peak 12:00 PM 3:00 PM 1:00	Day Total	0	824	226	0	47	2	0	84	0	0	25	0	0	29	4227
1237		0%	66.6%	18.3%	0%	3.8%	0.2%	0%	6.8%	0%	0%	2%	0%	0%	2.3%	1237
Volume 0 76 29 0 7 1 0 10 0 0 7 0 0 3 PM Peak 12:00 PM 3:00 PM 12:00 PM <																
PM Peak 12:00 PM 3:00 PM 1:00 PM 12:00 PM 1:00 PM 1:00 PM 12:00 PM	AM Peak	12:00 AM	8:00 AM	8:00 AM	12:00 AM	10:00 AM	5:00 AM	12:00 AM	11:00 AM	12:00 AM	12:00 AM	10:00 AM	12:00 AM	12:00 AM	6:00 AM	1A 00:8
	Volume	0	76	29	0	7	1	0	10	0	0	7	0	0	3	115
Volume 0 76 18 0 9 0 0 10 0 0 2 0 0 3	PM Peak	12:00 PM	3:00 PM	1:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	9:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 P
	Volume	0	76	18	0	9	0	0	10	0	0	2	0	0	3	101

SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: WB

DATE: Apr 6 2023

	iasta, CA													D/(IL.	Apr 6 2023
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
12:00 AM	0	4	1	0	0	0	0	1	0	0	0	0	0	0	6
01:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
02:00 AM	0	3	1	0	1	0	0	2	0	0	0	0	0	0	7
03:00 AM	0	6	5	0	3	0	0	2	0	0	0	0	0	0	16
04:00 AM	0	3	0	0	0	0	0	1	0	0	0	0	0	1	5
05:00 AM	0	19	6	0	2	0	0	2	0	0	1	0	0	0	30
06:00 AM	0	24	12	0	6	0	0	7	0	0	0	0	0	1	50
07:00 AM	0	43	16	0	4	0	0	5	0	0	0	0	0	0	68
08:00 AM	0	70	26	0	9	0	0	8	0	0	0	0	0	2	115
09:00 AM	0	72	16	0	7	0	0	7	0	0	1	0	0	4	107
10:00 AM	0	76	17	0	7	0	0	6	0	0	2	0	0	3	111
11:00 AM	0	70	9	0	9	0	0	2	0	0	2	0	0	4	96
12:00 PM	0	68	10	0	6	0	0	8	0	0	1	0	0	4	97
01:00 PM	0	72	17	0	4	0	0	12	0	0	2	0	0	1	108
02:00 PM	0	71	15	0	6	0	0	2	0	0	1	0	0	4	99
03:00 PM	0	87	24	0	7	0	0	11	0	0	3	0	0	1	133
04:00 PM	0	64	17	1	2	0	0	7	0	0	4	0	0	4	99
05:00 PM	0	66	8	0	2	0	0	2	0	0	1	0	0	1	80
06:00 PM	0	24	11	0	1	0	0	3	0	0	1	0	0	1	41
07:00 PM	0	16	2	0	2	0	0	3	0	0	0	0	0	1	24
08:00 PM	0	11	0	0	1	0	0	2	0	0	0	0	0	1	15
09:00 PM	0	13	1	0	1	0	0	1	0	0	0	0	0	1	17
10:00 PM	0	3	1	0	1	0	0	0	0	0	0	0	0	0	5
11:00 PM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Day Total	0	890	216	1	81	0	0	94	0	0	19	0	0	34	1335
Percent	0%	66.7%	16.2%	0.1%	6.1%	0%	0%	7%	0%	0%	1.4%	0%	0%	2.5%	1333
ADT 1335															
AM Peak	12:00 AM	10:00 AM	8:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	8:00 AM	12:00 AM	12:00 AM	10:00 AM	12:00 AM	12:00 AM	9:00 AM	8:00 AN
Volume	0	76	26	0	9	0	0	8	0	0	2	0	0	4	115
PM Peak	12:00 PM	3:00 PM	3:00 PM	4:00 PM	3:00 PM	12:00 PM	12:00 PM	1:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	12:00 PM	12:00 PM	3:00 PM
Volume	0	87	24	1	7	0	0	12	0	0	4	0	0	4	133
omments:															

LOCATION: WB SR 299 west of Bunch Grass Lookout Rd QC JOB #: 16124308 SPECIFIC LOCATION: **DIRECTION: WB** CITY/STATE: Shasta, CA DATE: Apr 4 2023 - Apr 6 2023 Cars & 2 Axle 2 Axle 6 4 Axle <5 Axl 5 Axle >6 Axl 3 Axle <6 Axl 6 Axle >6 Axl Not Start Time **Bikes Buses** Total **Trailers** Long Tire Single Single Double Double Double Multi Multi Multi Classed **Grand Total** 0 2550 660 1 184 5 0 251 1 0 65 0 0 73 3790 0% 0.1% 0% 0% 1.9% Percent 0% 67.3% 17.4% 4.9% 0% 6.6% 0% 1.7% 0% ADT 1263

Report generated on 4/11/2023 4:55 PM

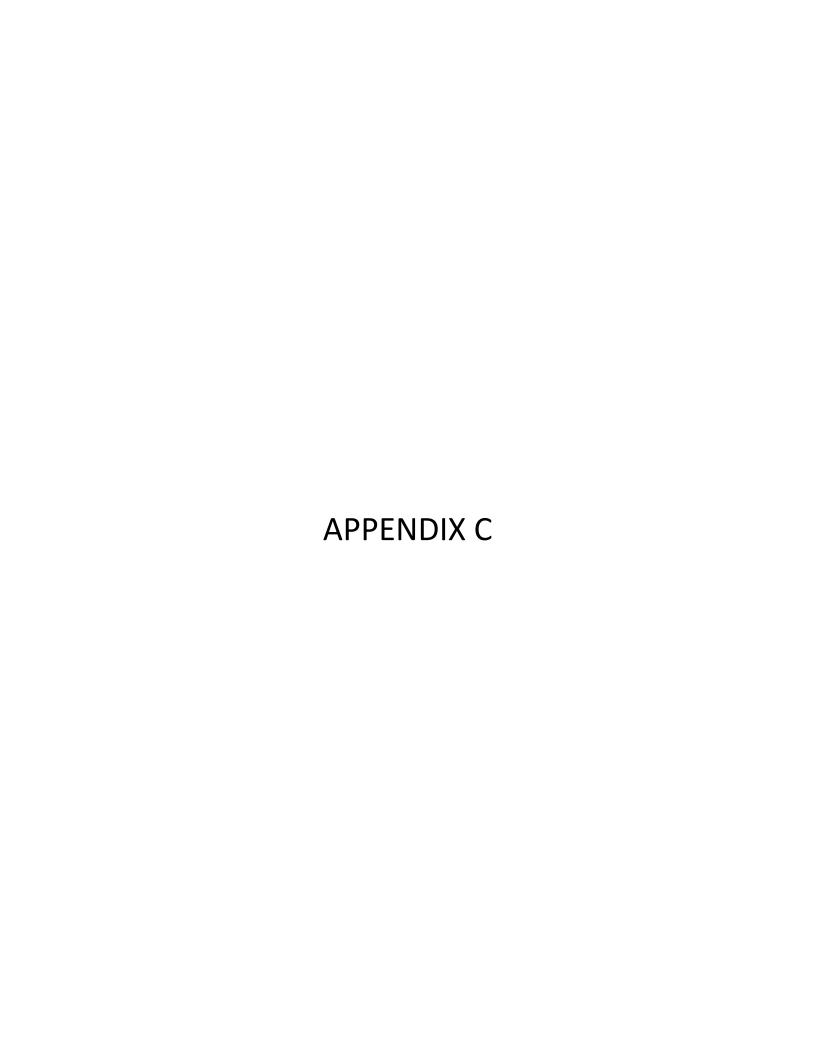
Comments:



SPECIFIC LOCATION: CITY/STATE: Shasta, CA QC JOB #: 16124308 DIRECTION: WB

DATE: Apr 4 2023 - Apr 6 2023

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday	Sat	Sun	Average Week	Average Week Profile
		4 Apr 23	5 Apr 23	6 Apr 23		Hourly Traffic			Hourly Traffic	
12:00 AM		2	5	6		4			4	
01:00 AM		3	1	3		2			2	
02:00 AM		6	3	7		5			5	
03:00 AM		7	3	16		9			9	
04:00 AM		9	7	5		7			7	
05:00 AM		27	31	30		29			29	
06:00 AM		35	49	50		45			45	
07:00 AM		69	68	68		68			68	
08:00 AM		93	115	115		108	-		108	
09:00 AM		97	92	107		99			99	
10:00 AM		109	107	111		109			109	
11:00 AM		92	100	96		96			96	
12:00 PM		98	101	97		99			99	
01:00 PM		95	101	108		101			101	
02:00 PM		107	78	99		95			95	
03:00 PM		83	101	133		106			106	
04:00 PM		93	74	99		89			89	
05:00 PM		72	92	80		81			81	
06:00 PM		48	50	41		46		In.	46	
07:00 PM		42	23	24		30		411	30	
08:00 PM		13	11	15		13			13	
09:00 PM		6	13	17		12	00.000	CIR III	12	
10:00 PM		6	8	5		6	DIVIN	UNH	6	
11:00 PM		6	4	3		4			4	
Day Total		1218	1237	1335		1263			1263	
% Weekday Average		96.4%	97.9%	105.7%						
% Week										
Average		96.4%	97.9%	105.7%		100%				
AM Peak		10:00 AM	8:00 AM	8:00 AM		10:00 AM			10:00 AM	
Volume		109	115	115		109			109	
PM Peak		2:00 PM	12:00 PM	3:00 PM		3:00 PM			3:00 PM	
Volume		107	101	133		106			106	



CASE_ID	ACCIDENT_YE PRIMARY_RD	SECONDARY_	STATE_ROUT COLLISIO	N_SI NU	MBER_KILI NUMB	ER_INJL MOTO	RCYCLE TRUCK_AC	CII LATITUDE	LONGITUDE	COUNTY	CITY	POINT_X	POINT_Y
8819497	2019 CHURN CREE	IRT 299	299	3	0	2		40.6140213	-122.3494873	SHASTA	REDDING	-122.3534393	40.61416245
90858538	2018 SR-299 E/B TC	CHURN CREE	299	2	0	1 Y		40.61386108	-122.3527832	SHASTA	REDDING	-122.3527832	40.61386108
9286452	2020 RT 299	RT 5	299	3	0	1		40.6124382	-122.3628387	SHASTA	REDDING	-122.3606796	40.6126709
9001532	2019 LAKE BL	RT 5	299	4	0	1		40.6140213	-122.3494873	SHASTA	REDDING	-122.3542175	40.61380386
91320575	2020 SR-299 (EAST	1-5	299	4	0	1		40.61296844	-122.3588867	SHASTA	REDDING	-122.3588943	40.61298752
8711810	2018 CHURN CREE		299	3	0	2				SHASTA	REDDING	-122.3475113	
90985017	2019 SR-299	JIM HARVEY R		3	0	2		40.62654877	-122.2921524		UNINCORPOR		
91342181	2020 SR-299	JACK PINE LAI		4	0	2			-122.2710114		UNINCORPOR		
90701577	2018 SR-299	MOOSE CAMP	299	4	0	1		40.86534882	-121.838707		UNINCORPOR		
90755792	2018 SR-299	MOOSE CAMP	299	2	0	1	Υ		-121.7965088		UNINCORPOR		
91248564	2020 SR-299	INTERMOUNT	299	4	0	2	•		-122.2691574		UNINCORPOR		
91060860	2019 SR-299	WILSON WAY	299	4	0	1			-122.2616577		UNINCORPOR		
90762950	2018 SR-299 W/B	HELENA LN	299	4	0	3			-122.2733536		UNINCORPOR		
90808511	2018 SR-299	JIM HARVEY R	299	3	0	2	Υ		-122.2935028		UNINCORPOR		
91204327	2010 SR-299 2020 SR-299	HELENA LANE		3	0	2	'		-122.2933020		UNINCORPOR		
91157996	2019 SR-299	BEST LANE	299	3	0	1			-122.2641068		UNINCORPOR		
	2019 SR-299 2019 SR-299	JIM HARVEY R		4	0	1			-122.2929306		UNINCORPOR		
91021148 91021813	2019 SR-299 E/B	NEAL LANE	299	3	0	3			-122.2789993		UNINCORPOR		
	2019 SR-299 E/B 2020 SR-299	KERN DR.	299	2	0	1			-122.2769993		UNINCORPOR		
91274616				-	· ·	2							
91324201	2020 SR-299	WILSON WAY	299	3	0	_			-122.2616119		UNINCORPOR		
91151052	2019 SR-299	BUNCH GRAS:	299	4	0	1	V		-121.7687531		UNINCORPOR		40.852314
91104457	2019 SR-299	NEAL LANE	299	-	0	3	Υ		-122.2781525		UNINCORPOR		
91204321	2020 SR-299 E/B	DESCHUTES F	299	3	0	1			-122.2492905		UNINCORPOR		40.63624191
90684697	2018 SR-299	E. STILLWATE		3	0	4			-122.2967911		UNINCORPOR		
91282907	2020 SR-299	BUNCH GRAS		3	0	1			-121.7691803		UNINCORPOR		40.852314
91340043	2020 SR-299	LIVONA LANE	299	2	0	2		40.62860107	-122.282608		UNINCORPOR		
91047179	2019 SR-299	CLASSIC MEA		3	0	1			-122.1855621		UNINCORPOR		
90837967	2018 SR-299	WOODMAN LN	299	1	2	0			-122.1483994		UNINCORPOR		
91425650	2020 SR-299	WOODMAN LN	299	1	1	0			-122.1533966		UNINCORPOR		
91205190	2020 SR-299 W/B	DUBOIS RD	299	2	0	1			-122.0624084		UNINCORPOR		
91342176	2020 SR-299	CEDAR CREE!	299	4	0	3			-122.0041733		UNINCORPOR		
90886613	2018 STATE ROUTE		299	2	0	4			-122.1583633		UNINCORPOR		
90644228	2018 SR-299	SUGAR PINE (3	0	1			-122.0819778		UNINCORPOR		
90810688	2018 STATE ROUTE			3	0	3	Υ		-122.0120773		UNINCORPOR		40.76260757
91326012	2020 SR-299	SUGAR PINE (3	0	1			-122.0904388		UNINCORPOR		40.70850372
91090774	2019 SR-299	SUGAR PINE (299	3	0	4		40.72045898	-122.0818787	SHASTA	UNINCORPOR	-122.0818558	40.72045517
91302056	2020 SR-299	DU BOIS RD	299	4	0	1		40.74914169	-122.053299	SHASTA	UNINCORPOR	-122.0533295	40.74919128
90854104	2018 SR-299	DUSTY OAKS	299	1	1	0		40.68719101	-122.1363907	SHASTA	UNINCORPOR	-122.1363907	40.68719864
91050412	2019 SR-299	SUGAR PINE (299	4	0	1		40.72917938	-122.0761719	SHASTA	UNINCORPOR	-122.0761719	40.72917938
91072818	2019 SR-299E	OLD ALTURAS	299	1	1	0	Υ	40.64796829	-122.2215576	SHASTA	UNINCORPOR	-122.2215958	40.64799881
90809718	2018 SR-299E	OLD ALTURAS	299	2	0	1		40.64464951	-122.2257233	SHASTA	UNINCORPOR	-122.2257538	40.64469528
90996953	2019 SR-299	SUGAR PINE (299	3	0	1		40.72048187	-122.0817337	SHASTA	UNINCORPOR	-122.0818405	40.72050095
90919994	2019 SR-299	WOODMAN LA	299	4	0	1		40.6778183	-122.1643524	SHASTA	UNINCORPOR	-122.16436	40.67783737
91083218	2019 SR-299	OAK RUN RD	299	4	0	1		40.75667191	-122.0183716	SHASTA	UNINCORPOR	-122.0183792	40.75667191
91214975	2020 SR-299	SUGAR PINE (299	1	1	0	Υ	40.74610138	-122.0625381	SHASTA	UNINCORPOR	-122.0625381	40.74609756
91144029	2019 SR-299	SUGAR PINE (299	4	0	1		40.70853043	-122.090477	SHASTA	UNINCORPOR	-122.0905151	40.70853424
90808400	2018 SR-299	SEAMAN GULO	299	4	0	2		40.70338821	-122.0962296	SHASTA	UNINCORPOR	-122.0962296	40.70338821
91099443	2019 SR-299	SUGAR PINE (299	3	0	2		40.7426796	-122.0681686	SHASTA	UNINCORPOR	-122.0681763	40.74269867
90656470	2018 STATE ROUTE			3	0	1		40.73303986	-122.073761		UNINCORPOR		
91104434	2019 SR-299	SEAMAN GULO	299	4	0	1			-122.1024094		UNINCORPOR		40.69722366
91134646	2019 SR-299	DU BOIS RD	299	4	0	1		40.7469902	-122.054863		UNINCORPOR		
90735661	2018 SR-299	SUGAR PINE (3	0	1			-122.0838394		UNINCORPOR		
90928589	2019 STATE ROUTE			4	0	1	Υ		-122.0837097		UNINCORPOR		40.71331024
90877327	2018 SR-299	OAK RUN RD	299	3	0	1	•		-122.0627975		UNINCORPOR		
91045708	2019 SR-299	MPM 49.30	299	4	0	1		40.77845001	-122.002121		UNINCORPOR		40.7784729
91179899	2020 SR-299	OLD ALTURAS		4	0	1			-122.2319717		UNINCORPOR		
21170000	2020 011 200		200	•	v			.0.04070000		J	J		. 0.0 . 007277

91125452	2019 SR-299	JAVELINA	299	4	0	3		40.69430161	-122.1070709 SHASTA	UNINCORPOR -122.1070938	40.69433975
91308639	2020 SR-299	SEAMAN GULO	299	4	0	1		40.73141098	-122.0760727 SHASTA	UNINCORPOR -122.0760727	40.73141098
91040564	2019 STATE ROUTE	SUGAR PINE (299	4	0	1		40.71950912	-122.0822067 SHASTA	UNINCORPOR -122.082222	40.71951675
91350106	2020 SR-299	DU BOIS RD	299	4	0	1		40.75172043	-122.043457 SHASTA	UNINCORPOR -122.043457	40.75175095
90888718	2018 STATE ROUTE	WOODMAN LA	299	4	0	1		40.68085861	-122.156662 SHASTA	UNINCORPOR -122.1566696	40.6808815
91361577	2020 STATE ROUTE	SUGAR PINE (299	1	1	3	Υ	40.74485016	-122.0633698 SHASTA	UNINCORPOR -122.0633926	40.74487305
91287794	2020 SR-299	TERRY MILL R	299	4	0	2	Υ	40.79309845	-121.9433975 SHASTA	UNINCORPOR -121.9433746	40.79306793
90819703	2018 SR-299	WEBSTER WA	299	4	0	2		40.85292053	-121.9041595 SHASTA	UNINCORPOR -121.9042282	40.85293198
90684368	2018 SR-299	KING MILL RD	299	4	0	1		40.80075073	-121.9389267 SHASTA	UNINCORPOR -121.9389191	40.80075073
91273293	2020 SR-299	WOODHILL DF	299	4	0	1		40.84542084	-121.9145203 SHASTA	UNINCORPOR -121.9145203	40.84545517
90635010	2018 SR-299 W/B	WOODHILL DF	299	4	0	1		40.84569931	-121.9019089 SHASTA	UNINCORPOR -121.9019089	40.8456955
91247262	2020 SR-299	WOODHILL DF	299	4	0	1		40.84613037	-121.9015427 SHASTA	UNINCORPOR -121.9014893	40.84609604
90818855	2018 SR-299	FENDERS FEF	299	1	1	1		40.82154846	-121.9329071 SHASTA	UNINCORPOR -121.9329071	40.82154846
90819804	2018 SR-299	DUNN MOODY	299	2	0	2		40.81800842	-121.9355774 SHASTA	UNINCORPOR -121.9356232	40.81804276
91313828	2020 SR-299	BIG BEND RD	299	2	0	1		40.8655014	-121.9126587 SHASTA	UNINCORPOR -121.912674	40.86553955
90719178	2018 STATE ROUTE	BIG BEND RD	299	3	0	2	Υ	40.8468399	-121.9011612 SHASTA	UNINCORPOR -121.9012146	40.8468399
91272133	2020 SR-299	WOODHILL DF	299	4	0	1		40.85972977	-121.9088516 SHASTA	UNINCORPOR -121.9087982	40.85977554
90965735	2019 SR-299	WOODHILL DF	299	3	0	2		40.84671021	-121.9074936 SHASTA	UNINCORPOR -121.9075089	40.84665298
90873289	2018 STATE ROUTE	TAMARACK RI	299	3	0	1		40.87707138	-121.7395706 SHASTA	UNINCORPOR -121.7395782	40.87708282
91189927	2020 SR-299	BUNCH GRAS:	299	3	0	1 Y		40.85231018	-121.7603226 SHASTA	UNINCORPOR -121.7603226	40.85228729
91316938	2020 SR-299	TAMARACK RI	299	3	0	1 Y		40.87429047	-121.7061768 SHASTA	UNINCORPOR -121.7061996	40.87418365
90952284	2019 SR-299	MOOSE CAMP	299	2	0	1		40.85593033	-121.7442398 SHASTA	UNINCORPOR -121.7444077	40.85620117
90984073	2019 STATE ROUTE	ELM ST.	299	2	0	11	Υ	40.87779999	-121.6768723 SHASTA	UNINCORPOR -121.6768417	40.87776566
91253047	2020 SR-299	PINE STREET	299	4	0	2		40.88008881	-121.6739578 SHASTA	UNINCORPOR -121.6739655	40.88009644
91163903	2020 SR-299	TIMBER DR	299	4	0	3		40.88127136	-121.6725006 SHASTA	UNINCORPOR -121.6725006	40.88127136

Primary Street: CA-299 E

Secondary Street:

Between I-5 and Hawley Road

Time Period:

3 Years (2018-2020)

Agency Name:

Westwood Professional Services

Mapping Summary: Fatal Crash 0 Injury Crash 4 Mapped 4 Not Drawn 1 5 Total





Date Created: 07/25/2023

Primary Street: CA-299 E

Secondary Street:

Between Hawley Road and Old O

Time Period:

3 Years (2018-2020)

Agency Name:

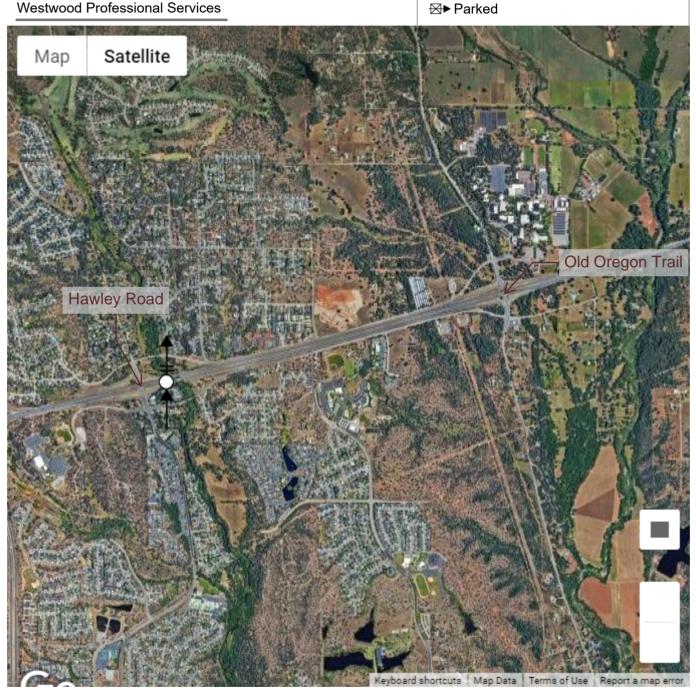
Westwood Professional Services

Mapping Summary: Fatal Crash 0 Injury Crash 1 Mapped 1 Not Drawn 0 Total

Pedestrian → Straight **∱** Left Turn → Right Turn **◆** U-Turn Fatal Crash Injury Crash → Overturned

New Ten Off Road

⊬ Stopped



Date Created: 07/25/2023

Primary Street: CA-299 E

Secondary Street:

Between Old Oregon Trail and De

Time Period:

3 Years (2018-2020)

Agency Name:

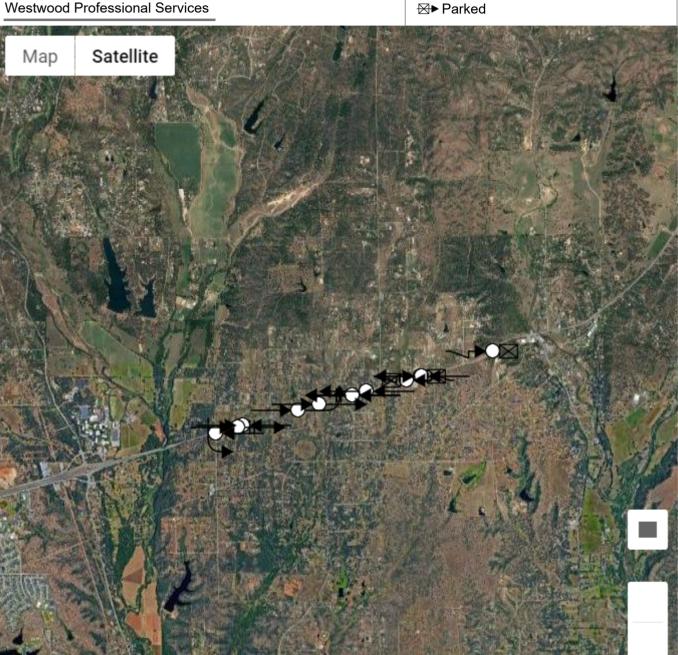
Westwood Professional Services

Mapping Summary: Fatal Crash 0 Injury Crash 12 Mapped 12 Not Drawn 4 Total 16

→ Straight Pedestrian **∱** Left Turn → Right Turn **◆** U-Turn Fatal Crash Injury Crash → Overturned

√▶ Ran Off Road

⊩► Stopped



Date Created: 07/25/2023

Created by TIMS (https://tims.berkeley.edu) © UC Regents, 2014-2023

Keyboard shortcuts | Map Data | Terms of Use | Report a map error

Primary Street: CA-299 E Secondary Street: Deschutes Road to Terry Mill Roa Time Period:

3 Years (2018-2020)

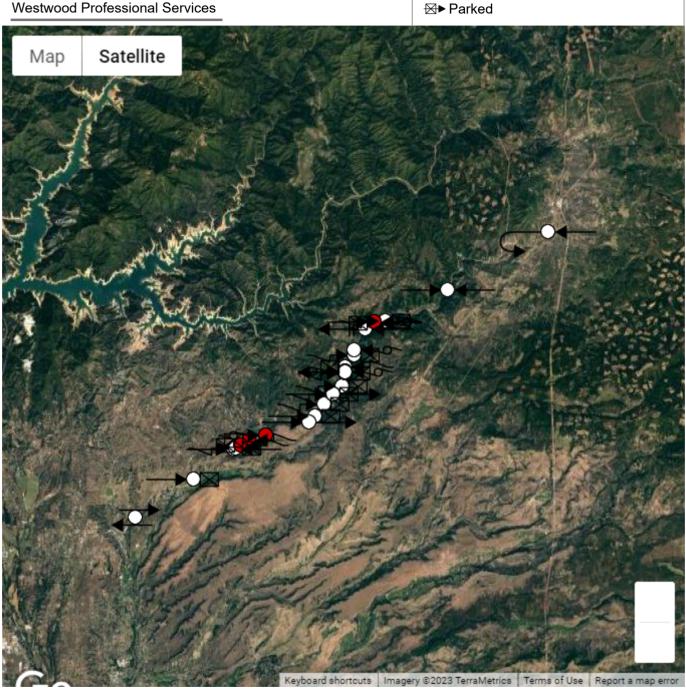
Agency Name:

Westwood Professional Services

Mapping Summary: Fatal Crash Injury Crash 22 Mapped 26 Not Drawn 11 37 Total

Pedestrian → Straight **∱** Left Turn → Right Turn **◆** U-Turn Fatal Crash Injury Crash → Overturned √▶ Ran Off Road

⊬ Stopped



Date Created: 07/25/2023

Primary Street: CA-299 E

Secondary Street:

Terry Mill Road to Big Bend Road

Time Period:

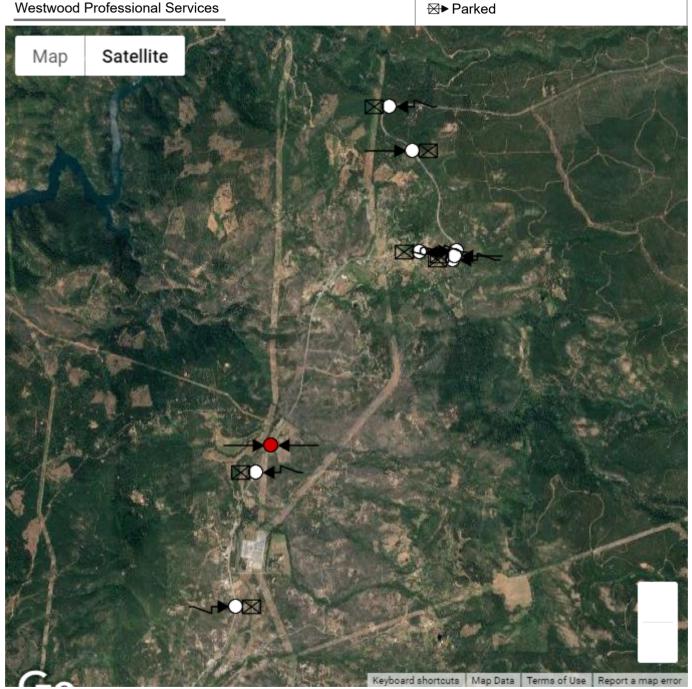
3 Years (2018-2020)

Agency Name:

Westwood Professional Services

Mapping Summary: Fatal Crash Injury Crash Mapped Not Drawn Total

Pedestrian → Straight **∱** Left Turn → Right Turn 8 **◆** U-Turn Fatal Crash 9 Injury Crash → Overturned √▶ Ran Off Road 11 **⊩**► Stopped



Date Created: 07/25/2023

Primary Street: CA-299 E Secondary Street: Site Entrance #1 to #2 Time Period: 3 Years (2018-2020) Agency Name: Westwood Professional Services

Mapping Summary: Fatal Crash 0 Injury Crash 2 Mapped 2 Not Drawn 0 2 Total

→ Straight Pedestrian **∱** Left Turn → Right Turn **◆** U-Turn Fatal Crash Injury Crash → Overturned New Ten Off Road **⊩**► Stopped Parked



Date Created: 07/27/2023

Primary Street: CA-299 E

Secondary Street:

Site Entrance #2 to Tamarack Roa

Time Period:

3 Years (2018-2020)

Agency Name:

Westwood Professional Services

Mapping Summary: Fatal Crash 0 Injury Crash 5 Mapped 5 Not Drawn 1 6 Total

→ Straight

∱ Left Turn

→ Right Turn

◆ U-Turn

→ Overturned

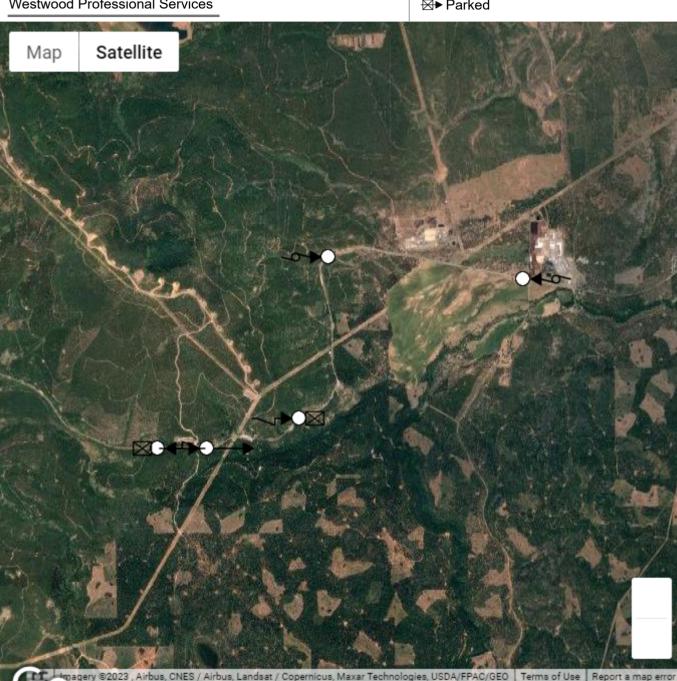
√▶ Ran Off Road

→ Stopped

Parked



Injury Crash



Date Created: 07/25/2023

Primary Street: CA-299 E

Secondary Street:

Tamarack Road to Elm Street

Time Period:

3 Years (2018-2020)

Agency Name:

Westwood Professional Services

Mapping Summary:
Fatal Crash 0
Injury Crash 1
Mapped 1
Not Drawn 0
Total 1

→ Straight → Left Turn

◆ U-Turn

🏂 Pedestrian

⊠ Object

Fatal CrashInjury Crash

→ Overturned
✓ Ran Off Road

→ Right Turn

Ne Kali Oli Ko

→ Stopped

⋈► Parked



Date Created: 07/25/2023

Primary Street: CA-299 E Secondary Street: Elm Street to Plumas Street Time Period: 3 Years (2018-2020) Agency Name:

Westwood Professional Services

Mapping Summary: Fatal Crash 0 Injury Crash 2 Mapped Not Drawn 0 2 Total

→ Straight Pedestrian **∱** Left Turn → Right Turn **◆** U-Turn Fatal Crash 2 Injury Crash → Overturned New Ten Off Road **⊩**► Stopped Parked



Date Created: 07/25/2023

Crash Rate = (Number of Crashes) x (1,000,000)

Vehicle Miles of Travel

Fatality Rate = (Number of Victims) x (100,000,000)

Vehicle Miles of Travel

The terms Rural and Urban are not to be confused with Inside and Outside Cities since they are not necessarily the same. Urban areas are defined and approved by the Federal Highway Administration (FHWA) on the general basis of urban characteristics and do not necessarily coincide with city boundaries.

Suburban areas are defined as areas inside city limits but classified as rural, plus areas outside city limits but classified as urban by the FHWA. All areas not classified as urban are rural.

D. Basic or Average Crash Rate Tables

The basic or average crash rate tables begin on page 83. The rates shown were all reviewed and revised during March 2020, with addition of Intersection Rate Group 31 – Roundabout, all access.

The average rates for all highway, intersection and ramp rate groups are primarily based on crash data for the years 2015 through 2019. These five years data were also used to determine the percentages of fatal and injury crashes.

It should be noted that some of the rate groups are based on limited amounts of mileage and travel. The use of these rate groups by local agencies as a standard or average rate for local roads may or may not be entirely appropriate.

E. Pedestrian and Bicycle Fatality and Injury Data

The pedestrian tables begin on page 91. The data contained in these tables includes the number of pedestrians that were involved in crashes on California state highways. Beginning 2012, crosswalks on state highways are included as intersection crash locations.

The bicycle tables begin on page 101. The data contained in these tables include the number of bicyclists that were involved in crashes on California state highways.

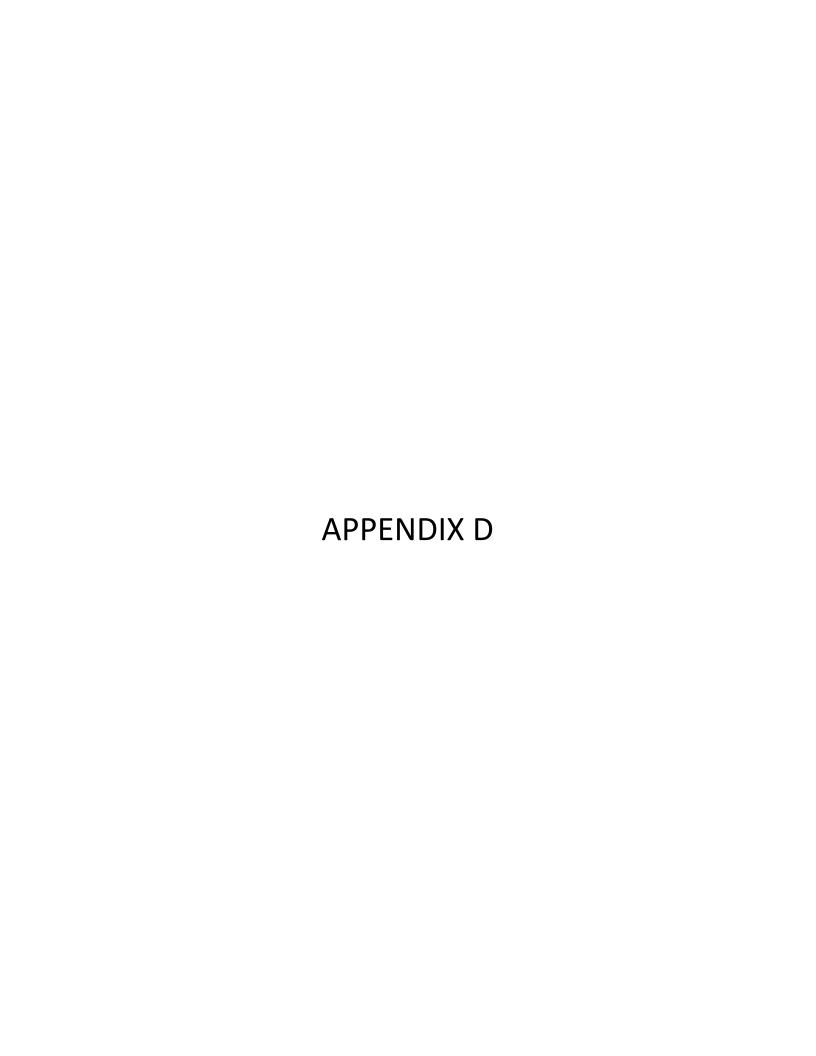
The pedestrian and bicyclist data also include crashes in the ramp area 4 and intersection area 6 as defined below.

- Non-state Route Associated with Ramp Area 4 is the area in an interchange on a county road or city street within 100 feet outside the outermost ramp terminal.
- Non-state Route Associated with State Route Intersection Area 6 is when a vehicle leaves the road from or when the crash occurs on a non-state route outside the state right of way limits and within 250 feet from the center of the intersection.

CALIFORNIA STATE HIGHWAYS STATEWIDE TRAVEL AND CRASH RATES

				2020			ates (2018, 201	· /
LANE	2020	2020	_	SHES	VICTIMS	_	SHES	VICTIMS
TYPE	ROAD	TRAVEL	TOTAL	FATAL+	FATALITIES	TOTAL	FATAL +	FATALITIES
	MILES	(MVM)	PER	INJURY	PER	PER	INJURY	PER
			MVM	PER MVM	100 MVM	MVM	PER MVM	100 MVM
RURAL (INSIDE + OUTS	SIDE CITY)							
	7,058.8	9,766.5	0.99	0.45	3.44	1.03	0.46	3.32
2 AND 3 LN	70.2	252.9	0.85	0.28	1.58	0.96	0.33	2.51
4+ UND	324.1	1,730.2	0.61	0.23	1.56	0.74	0.27	1.53
4+ DIV	7,453.0	11,749.6	0.93	0.41	3.12	0.99	0.43	3.04
SUBTOTAL	718.5	1,550.2	0.68	0.29	2.45	0.72	0.30	2.34
2 AND 3 LN EXP	589.5	3,651.3	0.53	0.19	1.31	0.60	0.21	1.30
4+ DIV EXP	8,761.1	16,951.1	0.82	0.35	2.67	0.88	0.37	2.61
NON FWY	1,720.1	22,914.6	0.46	0.15	0.83	0.49	0.16	0.87
FREEWAY	10,481.2	39,865.7	0.61	0.24	1.61	0.65	0.25	1.60
TOTAL URBAN (INSIDE + OUT	SIDE CITY)							-
	921.2	3,310.4	1.09	0.48	2.45	1.20	0.52	1.95
2 AND 3 LN	86.1	621.4	1.37	0.62	2.09	1.41	0.63	2.32
4+ UND	588.7	6,287.1	1.00	0.50	2.00	1.13	0.56	1.72
4+ DIV	1,595.9	10,218.9	1.05	0.50	2.15	1.17	0.55	1.83
SUBTOTAL	97.8	356.8	0.93	0.37	2.52	0.92	0.35	1.72
2 AND 3 LN EXP	187.3	2,147.5	0.71	0.29	0.79	0.79	0.31	0.93
4+ DIV EXP	1,881.0	12,723.2	0.99	0.46	1.93	1.10	0.50	1.67
NON FWY	2,691.4	120,925.3	0.78	0.24	0.61	0.95	0.30	0.51
FREEWAY	4,572.4	133,648.5	0.80	0.27	0.73	0.96	0.32	0.62
TOTAL STATEWIDE								
	7,980.0	13,076.9	1.02	0.46	3.19	1.07	0.47	2.97
2 AND 3 LN	156.2	874.3	1.22	0.53	1.94	1.29	0.55	2.37
4+ UND	912.8	8,017.3	0.91	0.44	1.91	1.05	0.50	1.68
4+ DIV	9,049.0	21,968.5	0.99	0.45	2.67	1.07	0.48	2.47
SUBTOTAL	816.3	1,907.0	0.73	0.31	2.46	0.76	0.31	2.22
2 AND 3 LN EXP	776.8	5,798.8	0.60	0.23	1.12	0.67	0.25	1.16
4+ DIV EXP	10,642.1	29,674.3	0.89	0.40	2.36	0.97	0.43	2.20
NON FWY	4,411.5	143,839.9	0.73	0.23	0.64	0.88	0.28	0.56
FREEWAY	15,053.6	173,514.2	0.76	0.26	0.93	0.89	0.30	0.84
TOTAL								

7



	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	5/15/2023
Agency	California Energy Commission	Analysis Year	2020
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	PRE- CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 1 Adjustment Factor	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	acity		
Volume(V) veh/h	575	Heavy Vehicle Adjustment Factor (fHV)	0.942
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	324
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.16
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	6.0
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	A
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	306	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.35
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	5/15/2023
Agency	California Energy Commission	Analysis Year	2020
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	PRE- CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
Direction 2 Geometric Data			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Factor	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	acity		·
Volume(V) veh/h	1100	Heavy Vehicle Adjustment Factor (fHV)	0.936
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	625
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.31
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	11.7
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	В
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vol.),veh/h	585	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.68
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	5/15/2023
Agency	California Energy Commission	Analysis Year	2020
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	PRE- CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	1.70
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	5
Median Type	Divided	Total Lateral Clearance (TLC), ft	11
Free-Flow Speed (FFS), mi/h	54.6		
Direction 1 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	pacity		
Volume(V) veh/h	475	Heavy Vehicle Adjustment Factor (fHV)	0.951
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	266
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2064
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	1998
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.13
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.2
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D), pc/mi/ln	5.0
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	253	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.82
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	5/15/2023
Agency	California Energy Commission	Analysis Year	2020
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	PRE- CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
Direction 2 Geometric Data			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	pacity		
Volume(V) veh/h	575	Heavy Vehicle Adjustment Factor (fHV)	0.950
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	322
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.16
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	6.0
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	306	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.92
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Two-La	ne Highway	Report	
Project Information				
Analyst	Carlos Arias	Date		5/15/2023
Agency	Westwood	Analysis Year		2020
Jurisdiction	Shasta County	Time Period A	nalyzed	Peak Hour
Project Description	Fountain Wind Two Lan e-w E Bound - Along CA-299E from Old Oreo Trail to Plumas Street			United States Customary
	Se	gment 1		
Vehicle Inputs				
Segment Type	Passing Zone	Length, ft		22704
Lane Width, ft	12	Shoulder Wid	th, ft	6
Speed Limit, mi/h	55	Access Point I	Density, pts/mi	8.0
Demand and Capacity				
Directional Demand Flow Rate, veh/h	277	Opposing De	mand Flow Rate, veh/h	484
Peak Hour Factor	0.94	Total Trucks, 9	%	3.76
Segment Capacity, veh/h	1700	Demand/Capa	acity (D/C)	0.16
Intermediate Results				
Segment Vertical Class	1	Free-Flow Spe	eed, mi/h	60.6
Speed Slope Coefficient	3.71254	Speed Power	Coefficient	0.48424
PF Slope Coefficient	-1.26145	PF Power Coe	fficient	0.76719
In Passing Lane Effective Length?	No	Total Segmen	t Density, veh/mi/ln	1.8
%Improved % Followers	0.0	% Improved A	Avg Speed	0.0
Subsegment Data				
# Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	22704	-	-	59.0
Vehicle Results			-	
Average Speed, mi/h	59.0	Percent Follow	wers, %	37.5
Segment Travel Time, minutes	4.37	Followers Der	nsity, followers/mi/ln	1.8
Vehicle LOS	Α			
	Se	gment 2		
Vehicle Inputs				
Segment Type	Passing Lanes	Length, ft		99999
	+		.1. 6	6
Lane Width, ft	12	Shoulder Wid	tn, ft	0

Direc	ctional Demand Flow Rate, veh/h	138		Opposing	g Demand Fl	-		
Peak	Hour Factor	0.94	1	Total True	cks, %		14.90	
Segn	nent Capacity, veh/h	140	0	Demand,	/Capacity (D/	/C)	0.10	
Inte	ermediate Results						<u>'</u>	
Segn	nent Vertical Class	1		Free-Flov	v Speed, mi/	h	61.2	
Spee	d Slope Coefficient	7.28	3696	Speed Po	wer Coeffici	ent	1.58663	
PF SI	ope Coefficient	-0.9	6880	PF Power	Coefficient		0.89273	
In Pa	ssing Lane Effective Length?	No		Total Seg	ment Densit	y, veh/mi/ln	0.3	
%lm _l	proved % Followers	0.0		% Improv	ved Avg Spe	ed	0.0	
Sub	segment Data							
#	Segment Type	Leng	gth, ft	Radius, ft	Su	perelevation, %	Average Speed, mi/h	
1	Tangent	999	99	-	-		61.2	
Pas	sing Lane Results							
			Faster Lane			Slower Lane		
Flow	Rate, veh/h		92			46		
Perce	entage of Heavy Vehicles (HV%), %		5.96			32.90		
Initia	l Average Speed (Sint), mi/h		61.5					
Average Speed at Midpoint (SPLmid), mi/h 63.2			63.2	58.9				
Perce	ent Followers at Midpoint (PFPLmid)	, %	11.2			5.7		
	ent Followers at Midpoint (PFPLmid)	, %	11.2			5.7		
Veh	·	61.2		Percent F	followers, %	5.7	15.3	
Veh Avera	nicle Results		2			5.7 lowers/mi/ln	15.3 0.3	
Veh Avera	age Speed, mi/h	61.2	2					
Veh Avera	age Speed, mi/h	61.2	2 58					
Veh Avera Segn Vehic	age Speed, mi/h	61.2	2 58	Followers				
Veh Avera Segn Vehic	age Speed, mi/h nent Travel Time, minutes	61.2 18.5 A	2 58	Followers	s Density, fol			
Veh Avera Segn Vehic Veh	age Speed, mi/h nent Travel Time, minutes cle LOS	61.2 18.5 A	2 58 S €	egment 3	s Density, fol		0.3	
Veh Avera Segn Vehic	age Speed, mi/h nent Travel Time, minutes cle LOS nicle Inputs nent Type	61.2 18.5 A	2 58 S €	egment 3 Length, f	s Density, fol	lowers/mi/ln	15105	
Veh Avera Segm Vehic Veh Segm Lane	age Speed, mi/h nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft	61.2 18.5 A	2 58 S €	egment 3 Length, f	t Width, ft	lowers/mi/ln	0.3 15105 6	
Veh Avera Segm Vehic Veh Segm Lane Spee	age Speed, mi/h nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h	61.2 18.5 A	Se Sing Lanes	Egment 3 Length, f Shoulder Access Po	t Width, ft Dint Density,	lowers/mi/ln	0.3 15105 6	
Veh Avera Segm Vehic Veh Segm Lane Spee Der	age Speed, mi/h nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft ed Limit, mi/h mand and Capacity	61.2 18.5 A	Se sing Lanes	Egment 3 Length, f Shoulder Access Po	t Width, ft Dint Density,	lowers/mi/ln pts/mi	0.3 15105 6 4.0	
Veh Avera Segn Vehic Veh Segn Lane Spee Der Direc	age Speed, mi/h nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h	61.2 18.5 A Pass 12 55	Se Se	Length, for Shoulder Access Portal Opposing	t Width, ft Dint Density,	pts/mi ow Rate, veh/h	0.3 15105 6 4.0	
Veh Avera Segm Vehic Veh Segm Lane Spee Der Direc Peak Segm	age Speed, mi/h nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor	61.2 18.5 A Pass 12 55 144 0.94	Se Se	Length, for Shoulder Access Portal Opposing	t Width, ft Dint Density, g Demand Fl	pts/mi ow Rate, veh/h	0.3 15105 6 4.0	
Veh Avera Segm Vehic Veh Segm Lane Spee Der Direc Peak Segm	age Speed, mi/h nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results	61.2 18.5 A Pass 12 55 144 0.94	Se Se	Length, f Shoulder Access Po Opposing Total True Demand,	t Width, ft Dint Density, g Demand Fl Cks, %	pts/mi ow Rate, veh/h	0.3 15105 6 4.0 - 14.90	
Veh Avera Segm Vehic Veh Segm Lane Spee Der Direc Peak Segm Inte	age Speed, mi/h nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h	61.2 18.5 A Pass 12 55 144 0.94 140	Se Se	Length, for Shoulder Access Portal Truck Demand,	t Width, ft Dint Density, g Demand Fl	pts/mi ow Rate, veh/h /C)	0.3 15105 6 4.0 - 14.90 0.10	
Veh Avera Segn Vehic Veh Segn Lane Spee Der Direc Peak Segn Inte	age Speed, mi/h nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results nent Vertical Class	Pass 12 55 144 0.94 140 1 7.24	See Sing Lanes	Followers	t Width, ft Dint Density, Demand Fl Cks, % Capacity (D)	pts/mi ow Rate, veh/h /C)	0.3 15105 6 4.0 - 14.90 0.10	
Veh Avera Segn Vehic Veh Segn Lane Spee Der Direc Peak Segn Inte Segn Spee	age Speed, mi/h nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h ermediate Results nent Vertical Class d Slope Coefficient	Pass 12 55 144 0.94 140 1 7.24	Sessing Lanes	Followers Foll	t Width, ft Dint Density, G Demand Fl Cks, % Capacity (D) V Speed, mi/	lowers/mi/In pts/mi ow Rate, veh/h /C)	0.3 15105 6 4.0 - 14.90 0.10 61.2 1.54401	

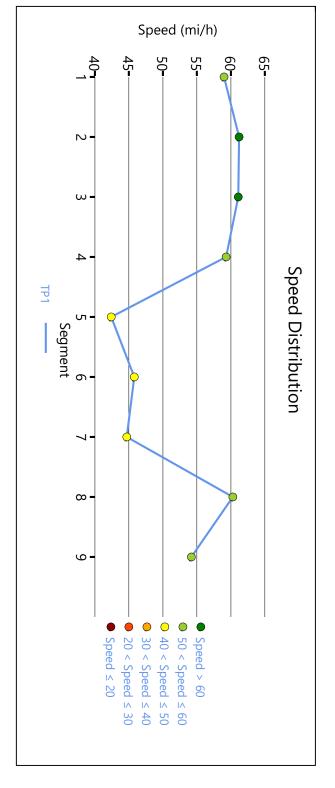
Sub	segment Data								
#	Segment Type	Leng	gth, ft		Radi	ius, ft	Su	perelevation, %	Average Speed, mi/h
1	Tangent	151	05		-		-		61.1
Pass	sing Lane Results								
			Faster Lane					Slower Lane	
Flow	Rate, veh/h		96					48	
Perce	ntage of Heavy Vehicles (HV%), %		5.96					32.72	
Initial	Average Speed (Sint), mi/h		61.5					60.6	
Avera	ge Speed at Midpoint (SPLmid), n	ni/h	63.2					58.9	
Perce	nt Followers at Midpoint (PFPLmid	d), %	11.5					5.8	
Veh	icle Results								
Avera	ge Speed, mi/h	61.1				Percent Followe	rs, %		15.6
Segm	ent Travel Time, minutes	2.81				Followers Densi	ty, foll	owers/mi/ln	0.4
Vehic	le LOS	А							
				Se	egm	nent 4			
Veh	icle Inputs								
Segm	ent Type	Pass	sing Zone			Length, ft			35904
Lane '	Width, ft	12				Shoulder Width, ft			6
Speed	d Limit, mi/h	55				Access Point De	nsity,	pts/mi	6.0
Den	nand and Capacity								
Direc	tional Demand Flow Rate, veh/h	144				Opposing Dema	and Flo	ow Rate, veh/h	144
Peak	Hour Factor	0.94	ļ			Total Trucks, %			14.90
Segm	ent Capacity, veh/h	170	0			Demand/Capaci	ty (D/	C)	0.08
Inte	rmediate Results								
Segm	ent Vertical Class	2				Free-Flow Speed	d, mi/ł	1	59.8
Speed	d Slope Coefficient	4.53	356			Speed Power Co	efficie	ent	0.66486
PF Slo	ppe Coefficient	-1.1	7419			PF Power Coeffi	cient		0.79683
In Pas	ssing Lane Effective Length?	Yes				Total Segment [Density	/, veh/mi/ln	0.5
%lmp	roved % Followers	9.4				% Improved Av	g Spee	ed	0.0
Sub	segment Data								
#	Segment Type	Leng	gth, ft		Radi	ius, ft	Su	perelevation, %	Average Speed, mi/h
1	Tangent	359	04		-		-		59.3
Veh	icle Results								
Avera	ge Speed, mi/h	59.3				Percent Followe	rs, %		22.1
	ent Travel Time, minutes	6.89				Followers Densi	ty, foll	owers/mi/ln	0.5
	ient navei nine, minutes								

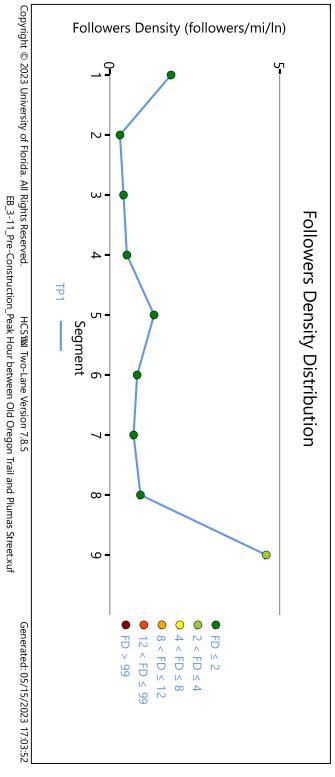
Vel	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		12144
Mea	sured FFS	Measured		Free-Flow Speed,	mi/h	47.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	179		Opposing Deman	d Flow Rate, veh/h	179
Peal	K Hour Factor	0.94		Total Trucks, %		31.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.11
Int	ermediate Results					
Seg	ment Vertical Class	4		Free-Flow Speed,	mi/h	47.0
Spe	ed Slope Coefficient	30.47189		Speed Power Coe	fficient	0.74794
PF S	lope Coefficient	-1.43469		PF Power Coefficie	ent	0.80690
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	1.3
%lm	proved % Followers	7.2		% Improved Avg S	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	12144	1-		-	42.4
Vel	hicle Results					
Ave	rage Speed, mi/h	42.4		Percent Followers,	%	30.1
Seg	ment Travel Time, minutes	3.25		Followers Density,	followers/mi/ln	1.2
Vehi	icle LOS	А				
		S	egn	nent 6		
Vel	hicle Inputs					
Seg	ment Type	Passing Lanes		Length, ft		25872
Mea	sured FFS	Measured	-		mi/h	46.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	179		Opposing Deman	d Flow Rate, veh/h	T-
Peal	K Hour Factor	0.94		Total Trucks, %		31.00
Seg	ment Capacity, veh/h	1100		Demand/Capacity	(D/C)	0.16
Int	ermediate Results					
Seg	ment Vertical Class	2		Free-Flow Speed,	mi/h	46.0
Spe	ed Slope Coefficient	12.22850		Speed Power Coe	fficient	1.55917
PF S	lope Coefficient	-0.91332		PF Power Coefficie	ent	0.77795
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.8
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	25872	-		-	45.8

Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flov	v Rate, veh/h		115				63	
Perc	entage of Heavy Vehicles (HV%), %		12.40				64.76	
Initi	al Average Speed (Sint), mi/h		74.4				63.6	
Ave	rage Speed at Midpoint (SPLmid), mi,	/h	76.5				61.6	
Percent Followers at Midpoint (PFPLmid), %			8.8			0.0		
Vel	hicle Results							
Ave	rage Speed, mi/h	45.8	}		Percent Followers	, %		21.3
Seg	ment Travel Time, minutes	6.42)		Followers Density	, follo	owers/mi/ln	0.8
Veh	icle LOS	А						
			S	egn	nent 7			
Vel	hicle Inputs							
Seg	ment Type	Pass	sing Lanes		Length, ft			30624
Mea	asured FFS	Mea	asured		Free-Flow Speed,	mi/h		47.0
De	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	213			Opposing Deman	d Flo	w Rate, veh/h	-
Peal	k Hour Factor	0.94	4 Total Trucks, %					30.00
Seg	ment Capacity, veh/h	110	00 Demand/Capacity (D			(D/C	<u> </u>	0.19
Int	ermediate Results							
Seg	ment Vertical Class	4			Free-Flow Speed,	mi/h		47.0
Spe	ed Slope Coefficient	28.7	.73583		Speed Power Coefficient			1.16507
PF S	Slope Coefficient	-0.8	82245		PF Power Coefficient			1.06542
In P	assing Lane Effective Length?	No			Total Segment De	nsity	, veh/mi/ln	0.7
%lm	proved % Followers	0.0			% Improved Avg S	Spee	d	0.0
Su	bsegment Data							
#	Segment Type	Leng	gth, ft	Rac	lius, ft	Sup	perelevation, %	Average Speed, mi/h
1	Tangent	306	24	-		-		44.7
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flov	v Rate, veh/h		135				78	
Perc	entage of Heavy Vehicles (HV%), %		12.00				61.11	
Initi	al Average Speed (Sint), mi/h		72.7				55.9	
Ave	rage Speed at Midpoint (SPLmid), mi,	/h	74.7				53.9	
Perc	ent Followers at Midpoint (PFPLmid),	%	11.0				-	
Vel	hicle Results							
_	rage Speed, mi/h	44.7	,		Percent Followers	%		14.6

, sear	nent Travel Time, minutes	7.78	Followers Density	, followers/mi/ln	0.7
_	:le LOS	Α	. Charles Bensit	,,	
			egment 8		
, .	• • • •	36			
Veh	icle Inputs				
Segn	nent Type	Passing Zone	Length, ft		7392
	Width, ft	12	Shoulder Width,		6
Spee	d Limit, mi/h	55	Access Point Den	sity, pts/mi	5.0
Der	nand and Capacity				
Direc	tional Demand Flow Rate, veh/h	191	Opposing Demai	nd Flow Rate, veh/h	197
Peak	Hour Factor	0.94	Total Trucks, %		17.50
Segn	nent Capacity, veh/h	1700	Demand/Capacit	y (D/C)	0.11
Inte	ermediate Results				
Segn	nent Vertical Class	1	Free-Flow Speed	, mi/h	60.9
Spee	d Slope Coefficient	3.62198	Speed Power Coe	efficient	0.54015
PF SI	ope Coefficient	-1.19891	PF Power Coeffic	ient	0.80879
In Pa	ssing Lane Effective Length?	Yes	Total Segment D	ensity, veh/mi/ln	0.9
%lmį	proved % Followers	14.0	% Improved Avg	Speed	0.6
Sub	segment Data				
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7392	-	-	59.9
Veh	icle Results				
Avera	age Speed, mi/h	60.3	Percent Followers	s, %	27.0
_	age Speed, mi/h nent Travel Time, minutes	60.3	Percent Followers Followers Density		27.0
Segm	<u> </u>				
Segm	nent Travel Time, minutes	1.39 A			
Segm	nent Travel Time, minutes	1.39 A	Followers Density		
Segn Vehice Veh	nent Travel Time, minutes cle LOS	1.39 A	Followers Density		
Vehice Vehice Vehice	nent Travel Time, minutes	1.39 A	Followers Density	,, followers/mi/ln	0.7
Vehice Veh Segm Lane	nent Travel Time, minutes cle LOS cle Inputs nent Type	1.39 A Se	Followers Density egment 9 Length, ft	r, followers/mi/ln	2640
Vehice Vehice Vehice Vehice Segment Lane Spee	nent Travel Time, minutes cle LOS cle Inputs nent Type Width, ft	1.39 A Se Passing Constrained 12	Followers Density egment 9 Length, ft Shoulder Width,	r, followers/mi/ln	0.7 2640 6
Vehice Vehice Vehice Segment Lane Spee	nent Travel Time, minutes cle LOS icle Inputs nent Type Width, ft d Limit, mi/h	1.39 A Se Passing Constrained 12	Followers Density egment 9 Length, ft Shoulder Width, Access Point Den	ft sity, pts/mi	0.7 2640 6
Vehice Vehice Vehice Vehice Segm Lane Spee Derr Direct	nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity	1.39 A Se Passing Constrained 12 55	Followers Density egment 9 Length, ft Shoulder Width, Access Point Den	r, followers/mi/ln	2640 6 22.0
Segm Vehice Veh Segm Lane Spee Der Direce Peak	nent Travel Time, minutes cle LOS icle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h	Passing Constrained 12 55	Followers Density egment 9 Length, ft Shoulder Width, Access Point Den Opposing Demai	ft sity, pts/mi and Flow Rate, veh/h	2640 6 22.0
Vehice Vehice Vehice Vehice Segm Lane Spee Derr Direct Peak Segm	nent Travel Time, minutes cle LOS icle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor	1.39 A Se Passing Constrained 12 55 463 0.94	Followers Density egment 9 Length, ft Shoulder Width, Access Point Den Opposing Demail Total Trucks, %	ft sity, pts/mi and Flow Rate, veh/h	0.7 2640 6 22.0
Vehice Vehice Vehice Segm Lane Spee Derr Direct Peak Segm Inte	nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h crmediate Results	1.39 A Se Passing Constrained 12 55 463 0.94 1700	Followers Density Pegment 9 Length, ft Shoulder Width, Access Point Den Opposing Demail Total Trucks, % Demand/Capacit	ft sity, pts/mi and Flow Rate, veh/h y (D/C)	0.7 2640 6 22.0 - 19.00 0.27
Vehice Vehice Vehice Segm Lane Spee Direct Peak Segm Inte	nent Travel Time, minutes cle LOS icle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h	1.39 A Se Passing Constrained 12 55 463 0.94	Followers Density egment 9 Length, ft Shoulder Width, Access Point Den Opposing Demail Total Trucks, %	ft sity, pts/mi nd Flow Rate, veh/h y (D/C)	0.7 2640 6 22.0

			С	Vehicle LOS	<u></u>
4.1	followers/mi/ln	Followers Density, followers/mi/ln	0.55	Segment Travel Time, minutes	Š
53.6	%	Percent Followers, %	54.2	Average Speed, mi/h	Þ
				Vehicle Results	<
54.2	-		2640 -	1 Tangent	
Average Speed, mi/h	Superelevation, %	Radius, ft	Length, ft Ra	# Segment Type	#
				Subsegment Data	S
0.0	peed	% Improved Avg Speed	10.7	%Improved % Followers	%
4.6	nsity, veh/mi/ln	Total Segment Density, veh/mi/ln	Yes	In Passing Lane Effective Length?	5





	HCS7 Two	o-Lane	Highway	Report	
Project Information					
Analyst	Carlos Arias		Date		4/12/2023
Agency	Westwood		Analysis Year		2020
Jurisdiction	Shasta County		Time Period Ar	nalyzed	Peak Hour
Project Description	Fountain Wind T e-w _ West Boun CA-299E from O Trail to Plumas S	nd - Along Id Oregon	Unit		United States Customary
		Segn	nent 1		
Vehicle Inputs					
Segment Type	Passing Constrai	ned	Length, ft		2640
Lane Width, ft	12		Shoulder Widtl	h, ft	6
Speed Limit, mi/h	55		Access Point D	ensity, pts/mi	22.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	191		Opposing Dem	nand Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %		19.00
Segment Capacity, veh/h	1700		Demand/Capa	city (D/C)	0.11
Intermediate Results					
Segment Vertical Class	2		Free-Flow Speed, mi/h		55.5
Speed Slope Coefficient	3.88683			Coefficient	0.44359
PF Slope Coefficient	-1.43208	-1.43208 No		ficient	0.73380
In Passing Lane Effective Length?	No			Density, veh/mi/ln	
%Improved % Followers	0.0	0.0		/g Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2640	-		-	54.2
Vehicle Results					
Average Speed, mi/h	54.2		Percent Follow	ers, %	34.7
Segment Travel Time, minutes	0.55		Followers Dens	sity, followers/mi/ln	1.2
Vehicle LOS	А				
		Segn	nent 2		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		7392
·				h ft	6
Lane Width, ft	12		Shoulder Widtl	1, 10	J

Directi	ional Demand Flow Rate, veh/h	197		Opposing Doman	d Flow Rate, veh/h	191		
	Hour Factor	0.94		Total Trucks, %	u riow Rate, venyn	17.50		
	ent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.12		
		1700		Demand/Capacity	(D/C)	0.12		
	rmediate Results							
	ent Vertical Class	1		Free-Flow Speed,		60.9		
	Slope Coefficient	3.62000		Speed Power Coef		0.54167		
	pe Coefficient	-1.19762		PF Power Coefficie		0.80923		
	sing Lane Effective Length?	No		Total Segment De		0.9		
%lmpr	roved % Followers	0.0		% Improved Avg S	Speed	0.0		
Subs	segment Data							
# 5	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	7392	-		-	59.8		
Vehi	cle Results							
Averaç	ge Speed, mi/h	59.8		Percent Followers,	%	27.5		
Segme	ent Travel Time, minutes	1.40		Followers Density,	followers/mi/ln	0.9		
Vehicle	e LOS	А						
			Segn	ment 3				
Vehi	cle Inputs							
Segme	ent Type	Passing Zone		Length, ft		30624		
Measu			Free-Flow Speed,	mi/h	47.0			
Dem	mand and Capacity				·			
Directi	ional Demand Flow Rate, veh/h	213		Opposing Demand	d Flow Rate, veh/h	213		
Peak F	Peak Hour Factor 0.94		Total Trucks, %		30.00			
Segme	ent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.13		
Inter	rmediate Results	1700				·		
Segme	ent Vertical Class	4		Free-Flow Speed, mi/h		47.0		
Speed	Slope Coefficient	30.13295		Speed Power Coefficient		0.73099		
PF Slo	pe Coefficient	-1.45615		PF Power Coefficient		0.80231		
In Pass	sing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.8		
%lmpr	roved % Followers	0.0		% Improved Avg S	Speed	0.0		
	'		% Improved Avg Speed					
	segment Data	Subsegment Data		live ft				
Subs	Segment Data Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h		
Subs		Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h 40.9		
Subs # 9	Segment Type	+ -	Rac -	lius, ft	Superelevation, %			
Subs	Segment Type Tangent cle Results	+ -	Rac	lius, ft Percent Followers,	-			
Subs # 5 1 1 Vehic	Segment Type Tangent	30624	Rac		%	40.9		

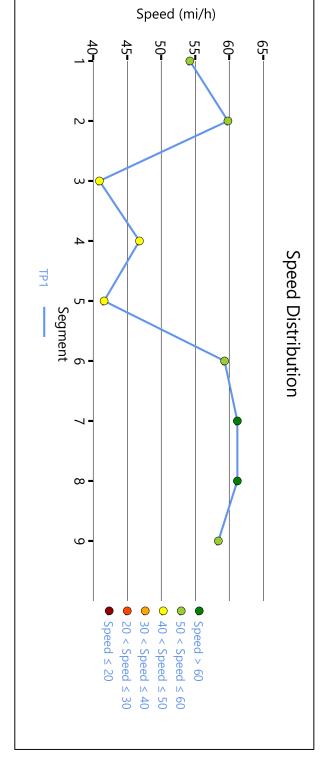
			Se	gn	nent 4			
Vel	hicle Inputs							
Segi	ment Type	Pass	sing Lanes		Length, ft			25872
Mea	asured FFS	Mea	asured		Free-Flow Speed,	mi/h		47.0
De	mand and Capacity							·
Dire	ectional Demand Flow Rate, veh/h	179			Opposing Demand	d Flo	w Rate, veh/h	-
Peak	k Hour Factor	0.94	1		Total Trucks, %			31.00
Segi	ment Capacity, veh/h	110	0		Demand/Capacity	(D/0	<u>.</u>	0.16
Int	ermediate Results							
Segi	ment Vertical Class	2			Free-Flow Speed,	mi/h		47.0
Spe	ed Slope Coefficient	12.2	22850		Speed Power Coef	fficie	nt	1.55917
PF S	Slope Coefficient	-0.9	1061		PF Power Coefficie	ent		0.78832
In Pa	assing Lane Effective Length?	No			Total Segment De	nsity	, veh/mi/ln	0.8
%lm	nproved % Followers	0.0			% Improved Avg S	Spee	d	0.0
Sul	bsegment Data							
#	Segment Type	Len	gth, ft	Rac	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	258	72	-		-		46.8
Pas	ssing Lane Results		Factor Long				Slower Lane	
Flow Rate, veh/h 115				63 64.76 63.6 61.6 0.0				
Percentage of Heavy Vehicles (HV%), % 12.40 Initial Average Speed (Sint), mi/h 74.4 Average Speed at Midpoint (SPLmid), mi/h 76.5								
Percent Followers at Midpoint (PFPLmid), % 8.8 Vehicle Results								
Avei	rage Speed, mi/h	46.8	<u> </u>		Percent Followers, %		20.9	
	ment Travel Time, minutes	6.29)		Followers Density,		owers/mi/ln	0.8
Vehi	icle LOS	Α						
			Se	gn	nent 5			
Vel	hicle Inputs							
	ment Type	Pass	sing Zone		Length, ft			12144
	asured FFS	+	asured		Free-Flow Speed,	mi/h		46.0
De	mand and Capacity							
	ectional Demand Flow Rate, veh/h	179			Opposing Demand	d Flo	w Rate, veh/h	179
	k Hour Factor	0.94			Total Trucks, %			31.00
Segi	ment Capacity, veh/h	170			Demand/Capacity	(D/0		0.11

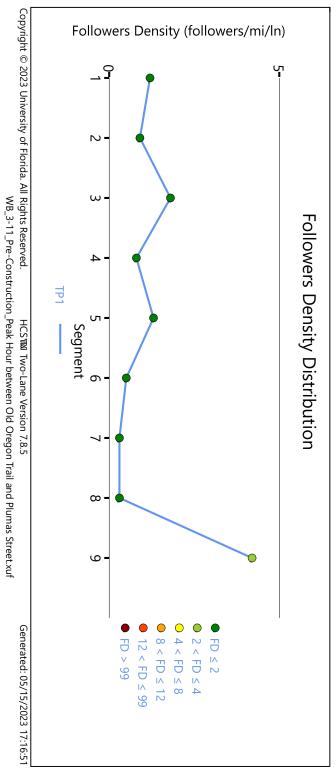
	ermediate Results						
Segr	ment Vertical Class	4		Free-Flow Speed,	mi/h	46.0	
Spe	ed Slope Coefficient	30.47189		Speed Power Coef	fficient	0.74794	
PF S	lope Coefficient	-1.43570		PF Power Coefficie	ent	0.80084	
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	1.3	
%lm	proved % Followers	13.9		% Improved Avg S	Speed	0.5	
Sul	osegment Data						
#	Segment Type	Length, ft	R	adius, ft	Superelevation, %	Average Speed, mi/h	
1	Tangent	12144	-		-	41.4	
Vel	nicle Results						
Aver	rage Speed, mi/h	41.6		Percent Followers,	%	30.3	
Segr	ment Travel Time, minutes	3.31		Followers Density,	followers/mi/ln	1.1	
Vehi	cle LOS	А					
			Seg	ment 6		<u>'</u>	
Vel	nicle Inputs						
	ment Type	Passing Zone		Length, ft		35904	
	e Width, ft	12		Shoulder Width, ft	t	6	
Spe	ed Limit, mi/h	55		Access Point Dens	ity, pts/mi	6.0	
Dei	mand and Capacity	_				<u>'</u>	
Dire	ctional Demand Flow Rate, veh/h	144		Opposing Demand	d Flow Rate, veh/h	144	
Peak	Hour Factor	0.94		Total Trucks, %		14.90	
		1700		Demand/Capacity	(D/C)	0.08	
Segr	ment Capacity, veh/h	1700			·		
	nent Capacity, veh/h ermediate Results	1700					
Into		2		Free-Flow Speed, 1	mi/h	59.8	
Int	ermediate Results			Free-Flow Speed, I		59.8 0.66486	
Into Segr	ermediate Results ment Vertical Class	2		<u> </u>	fficient		
Into Segr Spee	ermediate Results ment Vertical Class ed Slope Coefficient	2 4.53356		Speed Power Coef	fficient	0.66486	
Segr Spee PF SI In Pa	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient	2 4.53356 -1.17419		Speed Power Coefficie	fficient ent nsity, veh/mi/ln	0.66486 0.79683	
Segr Spee PF SI In Pa	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length?	2 4.53356 -1.17419 Yes		Speed Power Coefficient Total Segment Dec	fficient ent nsity, veh/mi/ln	0.66486 0.79683 0.5	
Segr Spee PF SI In Pa %Im	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers	2 4.53356 -1.17419 Yes	R	Speed Power Coefficient Total Segment Dec	fficient ent nsity, veh/mi/ln	0.66486 0.79683 0.5	
Segr Spee PF SI In Pa	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers psegment Data	2 4.53356 -1.17419 Yes 8.5	R	Speed Power Coefficient PF Power Coefficient Total Segment Decrease % Improved Avg S	fficient ent nsity, veh/mi/In Speed	0.66486 0.79683 0.5 0.0	
Interest Segrification Segrification Speed FF SI In Page 18 Milm Suk # 1	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers psegment Data Segment Type	2 4.53356 -1.17419 Yes 8.5	R -	Speed Power Coefficient PF Power Coefficient Total Segment Decrease % Improved Avg S	fficient ent nsity, veh/mi/In Speed	0.66486 0.79683 0.5 0.0	
Intersection Segretary Speed PF SI In Part Wilm Suk # 1	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers psegment Data Segment Type Tangent	2 4.53356 -1.17419 Yes 8.5	R -	Speed Power Coefficient PF Power Coefficient Total Segment Decrease % Improved Avg S	fficient ent nsity, veh/mi/ln speed Superelevation, %	0.66486 0.79683 0.5 0.0	
Intersection Segretary Speed PF SI In Part Market Market PF Suk # 1 Veh Aver	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers psegment Data Segment Type Tangent nicle Results	2 4.53356 -1.17419 Yes 8.5 Length, ft 35904	R	Speed Power Coefficient PF Power Coefficient Total Segment Demonstrates Avg Segment Avg	fficient ent ent nsity, veh/mi/ln Speed Superelevation, % -	0.66486 0.79683 0.5 0.0 Average Speed, mi/h 59.3	

Vel	nicle Inputs							
Segr	ment Type	Pass	sing Lanes		Length, ft			15105
Lane	e Width, ft	12			Shoulder Width, ft	t		6
Spee	ed Limit, mi/h	55			Access Point Dens	ity, p	ts/mi	4.0
Dei	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	138			Opposing Demand	d Flo	w Rate, veh/h	-
Peak	K Hour Factor	0.94	ļ		Total Trucks, %			14.90
Segr	ment Capacity, veh/h	140	0		Demand/Capacity	(D/C	<u></u>	0.10
Inte	ermediate Results							
Segr	ment Vertical Class	1			Free-Flow Speed,	mi/h		61.2
Spee	ed Slope Coefficient	7.24			Speed Power Coef	fficie	nt	1.54401
<u> </u>	lope Coefficient	-0.9	6855		PF Power Coefficie			0.89690
In Pa	assing Lane Effective Length?	No			Total Segment De	nsity,	veh/mi/ln	0.3
%lm	proved % Followers	0.0			% Improved Avg S	Speed	<u> </u>	0.0
Sul	bsegment Data							
#	Segment Type	Leng	gth, ft	Rad	lius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	151	05	-		-		61.2
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flow Rate, veh/h 92			92	46				
Percentage of Heavy Vehicles (HV%), % 5.96 Initial Average Speed (Sint), mi/h 61.5 Average Speed at Midpoint (SPLmid), mi/h 63.2			32.90					
			60.6					
				58.9				
Percent Followers at Midpoint (PFPLmid), % 11.1						5.6		
Vehicle Results								
Aver	rage Speed, mi/h	61.2)		Percent Followers, %			15.1
Segr	ment Travel Time, minutes	2.81			Followers Density, followers/mi/ln			0.3
Vehi	cle LOS	А						
			Se	gn	nent 8			
Vel	nicle Inputs							
Segr	ment Type	Pass	sing Lanes		Length, ft			99999
۰	e Width, ft	12			Shoulder Width, ft	t		6
Spee	ed Limit, mi/h	55			Access Point Dens	ity, p	ts/mi	4.0
Dei	mand and Capacity							
	ctional Demand Flow Rate, veh/h	138			Opposing Demand	d Flo	w Rate, veh/h	-
Peak	c Hour Factor	0.94	ļ		Total Trucks, %			14.90
Sear	ment Capacity, veh/h	140	0		Demand/Capacity	(D/C	·)	0.10

Inte	ermediate Results								
Segment Vertical Class 1					Free-Flow Speed,	mi/h		61.2	
		+	2696		Speed Power Coe			1.58663	
	ope Coefficient	+	6880		PF Power Coefficie		110	0.89273	
	ssing Lane Effective Length?	No.3			Total Segment De		veh/mi/ln	0.3	
	proved % Followers	0.0			% Improved Avg S			0.0	
	psegment Data	0.0			% improved Avg 3	speed		0.0	
		Lan		Dar	U 4	C	andonation 0/	A	
1	Segment Type Tangent	999	gth, ft oo	Rac	lius, ft	Sup	erelevation, %	Average Speed, mi/h 61.2	
		999				<u> -</u>		01.2	
Pas	sing Lane Results		I						
			Faster Lane				Slower Lane		
	Rate, veh/h		92				46		
	entage of Heavy Vehicles (HV%), %		5.96				32.90		
	l Average Speed (Sint), mi/h		61.5				60.6		
	age Speed at Midpoint (SPLmid), mi		63.2		58.9 5.7				
Percent Followers at Midpoint (PFPLmid), % 11.2			5.7						
Veh	icle Results								
Avera	age Speed, mi/h	61.2	2		Percent Followers,	, %		15.3	
Segn	Segment Travel Time, minutes 18.58			Followers Density,	, follo	owers/mi/ln	0.3		
Vehicle LOS A									
	Segr			gn	nent 9				
Vehicle Inputs									
Segn	ent Type Passing Zone				Length, ft			22704	
Lane	ane Width, ft 12				Shoulder Width, f	t		6	
Spee	d Limit, mi/h 55			Access Point Dens	sity, p	ots/mi	8.0		
Der	mand and Capacity								
Direc	tional Demand Flow Rate, veh/h	484			Opposing Demand Flow Rate, veh/h			277	
Peak	Hour Factor	0.94	1		Total Trucks, %			3.76	
Segn	nent Capacity, veh/h	170	0		Demand/Capacity	(D/C		0.28	
Inte	ermediate Results								
Segn	nent Vertical Class	1			Free-Flow Speed,	mi/h		60.6	
Spee	d Slope Coefficient	3.65	5687		Speed Power Coe	fficie	nt	0.52021	
PF SI	ope Coefficient	-1.2	3195		PF Power Coefficie	ent		0.77833	
In Pa	ssing Lane Effective Length?	Yes			Total Segment De	nsity	, veh/mi/ln	4.2	
%lm _l	proved % Followers	4.9			% Improved Avg S	Speed	d	0.0	
Sub	segment Data								
	Segment Type	Ι.	gth, ft	Dan	lius, ft	I _	erelevation, %	Average Speed, mi/h	

_		22704			π ₀ Δ
-	landent	22/04		-	30.4
Vel	Vehicle Results				
Aver	Average Speed, mi/h	58.4	Percent Followers, %		50.4
Segr	Segment Travel Time, minutes	4.42	Followers Density, followers/mi/ln		4.0
Vehi	Vehicle LOS	В			





	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2025
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 1 Adjustment Factor	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	acity		
Volume(V) veh/h	666	Heavy Vehicle Adjustment Factor (fHV)	0.942
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	376
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.19
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	7.0
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	354	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.43
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2025
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
Direction 2 Geometric Data			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Factor	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	pacity		
Volume(V) veh/h	1160	Heavy Vehicle Adjustment Factor (fHV)	0.936
Peak Hour Factor	0.94	Flow Rate (V _p), pc/h/ln	659
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.33
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	12.3
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	В
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	617	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.71
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2025
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	1.70
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	5
Median Type	Divided	Total Lateral Clearance (TLC), ft	11
Free-Flow Speed (FFS), mi/h	54.6		
Direction 1 Adjustment Factor	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	acity		
Volume(V) veh/h	566	Heavy Vehicle Adjustment Factor (fHV)	0.951
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	316
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2064
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	1998
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.16
Direction 1 Speed and Densi	ty		·
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.2
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D), pc/mi/ln	5.9
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	301	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.91
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2025
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
Direction 2 Geometric Data			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Factor	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	pacity		
Volume(V) veh/h	635	Heavy Vehicle Adjustment Factor (fHV)	0.950
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	356
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.18
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	6.6
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	338	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.97
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Two-La	ane l	Highway Re	eport	
Project Information					
Analyst	Carlos Arias		Date		6/9/2023
Agency	Westwood		Analysis Year		2025
Jurisdiction	Shasta County		Time Period Analy	/zed	Peak Hour
Project Description	Fountain Wind Two La e-w E Bound - Along CA-299E from Old Ord Trail to Plumas Street		Unit		United States Customary
	S	egm	ent 1		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		22704
Lane Width, ft	12		Shoulder Width, ft		6
Speed Limit, mi/h	55		Access Point Dens	sity, pts/mi	8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	373		Opposing Deman	d Flow Rate, veh/h	548
Peak Hour Factor 0.94			Total Trucks, %		3.76
Segment Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.22
Intermediate Results	·				
Segment Vertical Class	1		Free-Flow Speed,	mi/h	60.6
Speed Slope Coefficient	3.72711		Speed Power Coe	fficient	0.47597
PF Slope Coefficient	-1.26788		PF Power Coefficie	ent	0.76437
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	2.9
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Radi	us, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	22704	-	-		58.6
Vehicle Results					
Average Speed, mi/h	58.6		Percent Followers,	, %	45.0
Segment Travel Time, minutes	4.41		Followers Density,	, followers/mi/ln	2.9
Vehicle LOS	В				
	S	egm	ent 2		
Vehicle Inputs					
Segment Type	Passing Lanes		Length, ft		99999
Segment type					
Lane Width, ft	12		Shoulder Width, f	t	6

Dire	ctional Demand Flow Rate, veh/h	235			Opposing Demar	nd Flo	w Rate, veh/h	-	
Peak	Hour Factor	0.94	1		Total Trucks, %			14.90	
Segr	ment Capacity, veh/h	140	0		Demand/Capacity (D/C)			0.17	
Into	ermediate Results							<u>'</u>	
Segr	ment Vertical Class	1			Free-Flow Speed,	mi/h		61.2	
Spee	ed Slope Coefficient	7.28	3696		Speed Power Coefficient			1.58663	
PF S	lope Coefficient	-0.9	6880		PF Power Coeffici	ent	0.89273		
In Pa	ssing Lane Effective Length?	No			Total Segment De	ensity	0.9		
%lm	proved % Followers	0.0			% Improved Avg	Spee	d	0.0	
Suk	osegment Data								
#	Segment Type	Len	gth, ft	Rad	lius, ft	Sup	perelevation, %	Average Speed, mi/h	
1	Tangent	999	99	-		-		60.9	
Pas	sing Lane Results								
			Faster Lane				Slower Lane		
Flow Rate, veh/h 150				85					
Perc	entage of Heavy Vehicles (HV%), %		5.96			30.60			
Initia	al Average Speed (Sint), mi/h		61.5			60.7			
Aver	age Speed at Midpoint (SPLmid), mi	/h	63.2			59.0			
Perc	ent Followers at Midpoint (PFPLmid)	, %	16.8		10.0				
Vel	nicle Results								
Aver	age Speed, mi/h	60.9)		Percent Followers, %		23.4		
Segr	ment Travel Time, minutes	18.6	66		Followers Density, followers/mi/ln		0.9		
Vehi	cle LOS	А							
			Se	egn	nent 3				
Veł	nicle Inputs								
Segr	ment Type	Pass	sing Lanes		Length, ft			15105	
Lane	Width, ft	12			Shoulder Width, ft		6		
Spee	ed Limit, mi/h	55			Access Point Den	sity, p	ots/mi	4.0	
Dei	mand and Capacity								
Dire	ctional Demand Flow Rate, veh/h	235			Opposing Demar	nd Flo	w Rate, veh/h	-	
Peak	Hour Factor	0.94	1		Total Trucks, %			14.90	
Segr	ment Capacity, veh/h	140	0		Demand/Capacit	y (D/0	C)	0.17	
Inte	ermediate Results								
Sear	ment Vertical Class	1			Free-Flow Speed,	mi/h		61.2	
	ed Slope Coefficient	+			Speed Power Coe			1.54401	
•	lope Coefficient	+	6855		PF Power Coeffici			0.89690	
	assing Lane Effective Length?	No			Total Segment De		, veh/mi/ln	0.9	
	proved % Followers	0.0			% Improved Avg			0.0	
		10			1	12.00		1 ***	

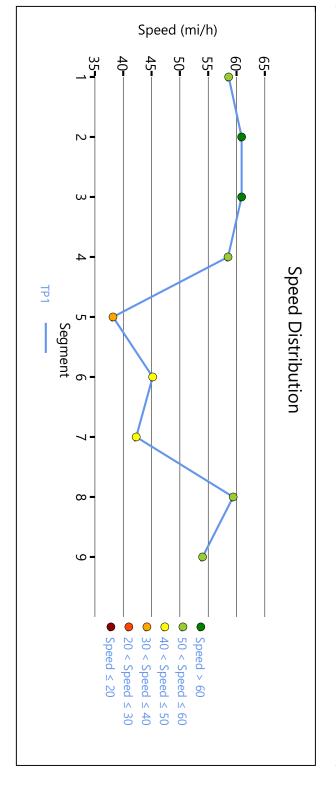
Subsegment Data							
# Segment Type	Len	gth, ft		Radius, ft		Superelevation, %	Average Speed, mi/h
1 Tangent	151	05		-		-	60.9
Passing Lane Results							·
		Faster Lane				Slower Lane	
Flow Rate, veh/h		150				85	
Percentage of Heavy Vehicles (HV9	%), %	5.96				30.60	
Initial Average Speed (Sint), mi/h		61.5				60.7	
Average Speed at Midpoint (SPLm	id), mi/h	63.2				59.0	
Percent Followers at Midpoint (PFF	Lmid), %	16.7				9.9	
Vehicle Results							
Average Speed, mi/h	60.9)		Percent F	ollowers,	. %	23.2
Segment Travel Time, minutes	2.82	2		Followers	Density,	followers/mi/ln	0.9
Vehicle LOS	А						
			Se	gment 4			
Vehicle Inputs							
Segment Type	Pas	sing Zone	Length, f	t		35904	
Lane Width, ft	12			Shoulder	Width, ft	6	
Speed Limit, mi/h	55			Access Po	oint Dens	6.0	
Demand and Capacity							
Directional Demand Flow Rate, vel	n/h 240	1		Opposing	g Deman	207	
Peak Hour Factor	0.94	1		Total Truc	ks, %	14.90	
Segment Capacity, veh/h	170	0		Demand,	'Capacity	0.14	
Intermediate Results							
Segment Vertical Class	2			Free-Flov	v Speed,	mi/h	59.8
Speed Slope Coefficient	4.58	3482		Speed Po	wer Coe	0.64081	
PF Slope Coefficient	-1.1	9424		PF Power	Coefficie	0.79047	
In Passing Lane Effective Length?	Yes			Total Seg	ment De	1.3	
%Improved % Followers	8.4			% Improv	ed Avg S	Speed	0.0
Subsegment Data							
# Segment Type	Len	gth, ft		Radius, ft		Superelevation, %	Average Speed, mi/h
1 Tangent	359	04		-		-	58.5
Vehicle Results							
Average Speed, mi/h	58.5	5		Percent F	ollowers,	%	32.1
Segment Travel Time, minutes	6.97	7		Followers	Density,	followers/mi/ln	1.2
Vehicle LOS	А						
			· ·	gment 5			

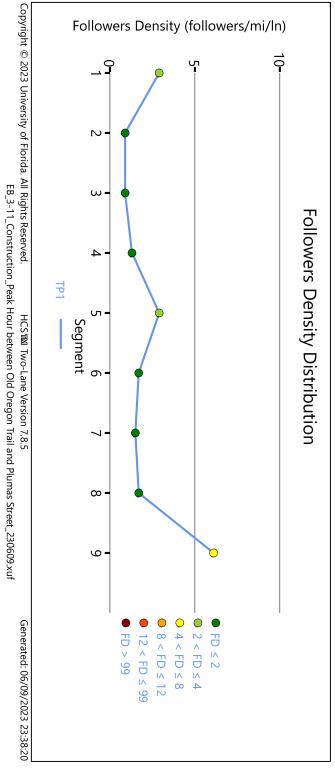
Vel	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		12144
Mea	sured FFS	Measured		Free-Flow Speed,	mi/h	47.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	276		Opposing Deman	d Flow Rate, veh/h	243
Peal	k Hour Factor	0.94		Total Trucks, %		31.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.16
Int	ermediate Results					
Seg	ment Vertical Class	4		Free-Flow Speed,	mi/h	47.0
Spe	ed Slope Coefficient	30.59918		Speed Power Coe	fficient	0.71659
PF S	lope Coefficient	-1.47032		PF Power Coefficie	ent	0.80180
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	2.9
%Improved % Followers 6.2				% Improved Avg S	Speed	0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	12144	1-		-	38.2
Vel	hicle Results					
Ave	rage Speed, mi/h	38.2		Percent Followers,	. %	40.7
Seg	ment Travel Time, minutes	3.61		Followers Density,	followers/mi/ln	2.8
Vehi	icle LOS	В				
		S	egn	nent 6		·
Vel	hicle Inputs					
Seg	ment Type	Passing Lanes		Length, ft		25872
Mea	sured FFS	Measured		Free-Flow Speed,	mi/h	46.0
De	mand and Capacity			<u>'</u>		
Dire	ctional Demand Flow Rate, veh/h	276		Opposing Deman	d Flow Rate, veh/h	-
Peal	K Hour Factor	0.94		Total Trucks, %		31.00
Seg	ment Capacity, veh/h	1100		Demand/Capacity	(D/C)	0.25
Int	ermediate Results			<u>'</u>		
Seg	ment Vertical Class	2		Free-Flow Speed,	mi/h	46.0
Spe	ed Slope Coefficient	12.22850		Speed Power Coe	fficient	1.55917
PF S	lope Coefficient	-0.91332		PF Power Coefficie	ent	0.77795
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.7
%lm	proved % Followers	0.0		% Improved Avg S		0.0
Sul	bsegment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	25872	-		-	45.2

Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flov	v Rate, veh/h		169			106		
Perc	centage of Heavy Vehicles (HV%), %		12.40				60.59	
Initi	al Average Speed (Sint), mi/h		74.3				64.5	
Ave	rage Speed at Midpoint (SPLmid), mi	'h	76.4				62.4	
Perc	ent Followers at Midpoint (PFPLmid),	%	12.7				0.5	
Ve	hicle Results							
Ave	rage Speed, mi/h	45.2			Percent Followers	, %		28.5
Seg	ment Travel Time, minutes	6.51			Followers Density, followers/mi/ln			1.7
Veh	icle LOS	А						
			Se	egn	nent 7			
Vel	hicle Inputs							
Segment Type Passing Lanes			Length, ft			30624		
Mea	asured FFS	Mea	asured		Free-Flow Speed, mi/h			47.0
De	mand and Capacity							
Directional Demand Flow Rate, veh/h 310				Opposing Deman	d Flo	w Rate, veh/h	-	
Peal	k Hour Factor	0.94	ļ		Total Trucks, %	Total Trucks, %		
Seg	ment Capacity, veh/h	110	0		Demand/Capacity (D/C)			0.28
Int	ermediate Results							
Seg	ment Vertical Class	4			Free-Flow Speed,	mi/h		47.0
Spe	ed Slope Coefficient	28.7	'3583		Speed Power Coefficient			1.16507
PF S	Slope Coefficient	-0.8	2245		PF Power Coefficient			1.06542
In P	assing Lane Effective Length?	No			Total Segment Density, veh/mi/ln			1.5
%lm	nproved % Followers	0.0		% Improved Avg Speed			d	0.0
Su	bsegment Data							
#	Segment Type	Leng	gth, ft	Rac	lius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	306	24	-		-		42.3
Pas	ssing Lane Results							
			Faster Lane				Slower Lane	
Flov	v Rate, veh/h		188				122	
Perc	centage of Heavy Vehicles (HV%), %		12.00				57.68	
Initi	al Average Speed (Sint), mi/h		72.4				56.3	
Ave	rage Speed at Midpoint (SPLmid), mi/	'h	74.4				54.3	
Perc	ent Followers at Midpoint (PFPLmid),	%	15.4				-	
Vel	hicle Results							
	rage Speed, mi/h	42.3			Percent Followers	. %		21.0

Sean	nent Travel Time, minutes	8.22		Followers Density,	followers/mi/ln	1.5	
	cle LOS	A		- S. S. Tero Beriotty,			
		<u> </u>	ann	nent 8			
\ \ .	*.1. 1	36	9"				
	icle Inputs						
Segn	nent Type	Passing Zone		Length, ft		7392	
	Width, ft	12		Shoulder Width, ft		6	
Spee	d Limit, mi/h	55		Access Point Dens	ity, pts/mi	5.0	
Der	nand and Capacity						
Direc	tional Demand Flow Rate, veh/h	288		Opposing Demand	d Flow Rate, veh/h	261	
Peak	Hour Factor	0.94		Total Trucks, %		17.50	
Segn	nent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.17	
Inte	ermediate Results						
Segment Vertical Class 1		Free-Flow Speed,	mi/h	60.9			
Speed Slope Coefficient 3.64391		Speed Power Coefficient		0.52382			
PF SI	ope Coefficient			PF Power Coefficient		0.80405	
In Pa	ssing Lane Effective Length?	Yes		Total Segment Density, veh/mi/ln		1.7	
%lm _l	proved % Followers	13.0		% Improved Avg S	Speed	0.1	
Sub	segment Data						
#	Segment Type	Length, ft	Rad	lius, ft Superelevation, %		Average Speed, mi/h	
1	Tangent	7392	-	-		59.3	
Veh	nicle Results						
Aver	age Speed, mi/h	59.4		Percent Followers,	%	36.0	
Segn	nent Travel Time, minutes	1.41		Followers Density, followers/mi/ln		1.5	
Vehic	cle LOS	А					
		Se	gn	nent 9			
Veh	nicle Inputs						
	nent Type	Passing Constrained		Length, ft		2640	
	Width, ft	12		Shoulder Width, ft	<u> </u>	6	
	d Limit, mi/h	55		Access Point Dens		22.0	
	mand and Capacity				, i		
	ctional Demand Flow Rate, veh/h	560		Onnosina Demana	d Flow Rate, veh/h	 -	
	Hour Factor	0.94		Total Trucks, %	a now rate, verigin	19.00	
. car	nent Capacity, veh/h	1700			(D/C)	0.33	
Sean	ILLIE CADACILY, VEITTI		Demand/Capacity (D/C) 0.33				
	· ·						
Inte	ermediate Results	1		Eroo Flour Caraci	mi/h	F6.6	
Inte Segn	ermediate Results nent Vertical Class	1		Free-Flow Speed,		56.6	
Inte Segn Spee	ermediate Results	1 3.59598 -1.36655		Free-Flow Speed, Speed Power Coef	fficient	56.6 0.41674 0.74751	

			С	Vehicle LOS	<
5.5	followers/mi/ln	Followers Density, followers/mi/ln	0.56	Segment Travel Time, minutes	Š
58.7	%	Percent Followers, %	54.0	Average Speed, mi/h	⊳
				Vehicle Results	
54.0	-		2640 -	1 Tangent	
Average Speed, mi/h	Superelevation, %	Radius, ft	Length, ft	# Segment Type	#
				Subsegment Data	S
0.0	speed	% Improved Avg Speed	9.7	%Improved % Followers	%
6.1	nsity, veh/mi/ln	Total Segment Density, veh/mi/ln	Yes	In Passing Lane Effective Length?	=





	HCS7 Two	-Lane	Highway F	Report	
Project Information					
Analyst	Carlos Arias		Date		6/9/2023
Agency	Westwood		Analysis Year		2025
Jurisdiction	Shasta County		Time Period Ana	alyzed	Peak Hour
Project Description	Fountain Wind Twe-w_West Bound CA-299E from Ol Trail to Plumas St	d - Along d Oregon	Unit		United States Customary
		Segn	nent 1		
Vehicle Inputs					
Segment Type	Passing Constrair	ned	Length, ft		2640
Lane Width, ft	12		Shoulder Width, ft		6
Speed Limit, mi/h	55		Access Point De	nsity, pts/mi	22.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	255		Opposing Dema	and Flow Rate, veh/h	-
Peak Hour Factor 0.94			Total Trucks, %		19.00
Segment Capacity, veh/h	1700		Demand/Capaci	ity (D/C)	0.15
Intermediate Results					
Segment Vertical Class	2		Free-Flow Speed	d, mi/h	55.5
Speed Slope Coefficient	3.88683		Speed Power Co	pefficient	0.44359
PF Slope Coefficient	-1.43208		PF Power Coeffi	cient	0.73380
In Passing Lane Effective Length?	No		Total Segment [Density, veh/mi/ln	1.9
%Improved % Followers	0.0		% Improved Av	g Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2640	-	-		53.8
Vehicle Results					
Average Speed, mi/h	53.8		Percent Followe	rs, %	40.9
Segment Travel Time, minutes	0.56		Followers Densi	ty, followers/mi/ln	1.9
Vehicle LOS	А				
	·	Segn	nent 2		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		7392
			Shoulder Width	 . ft	6
Lane Width, ft	Lane Width, ft 12 Speed Limit, mi/h 55				

Direction	nal Demand Flow Rate, veh/h	261		Onnosing Demand	d Flow Rate, veh/h	288
Peak Hou		0.94		Total Trucks, %	u How Rate, venim	17.50
	t Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.15
	nediate Results	1700		Demand, Capacity (D/C)		0.13
		1		1		1
	t Vertical Class	1		Free-Flow Speed,		60.9
·	ope Coefficient	3.65256		Speed Power Coefficient		0.51767
· ·	Coefficient	-1.21772		PF Power Coefficie		0.80222
	g Lane Effective Length?	No		Total Segment De		1.5
%Improv	ved % Followers	0.0		% Improved Avg S	Speed	0.0
Subse	gment Data					
# Se	gment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tar	ngent	7392	-		-	59.4
Vehicle	e Results					
Average	Speed, mi/h	59.4		Percent Followers,	, %	33.9
Segment	t Travel Time, minutes	es 1.41		Followers Density,	followers/mi/ln	1.5
Vehicle L	.OS	А				
			Segn	nent 3		
Vehicle	e Inputs					
Segment	t Type	Passing Zone		Length, ft		30624
Measure	d FFS	Measured		Free-Flow Speed, mi/h		47.0
Dema	nd and Capacity					
Direction	nal Demand Flow Rate, veh/h	277		Opposing Demand Flow Rate, veh/h		310
Peak Hou	ur Factor	0.94		Total Trucks, %		30.00
Segment	t Capacity, veh/h	1700		Demand/Capacity (D/C)		0.16
Interm	nediate Results					·
Segment	t Vertical Class	4		Free-Flow Speed,	mi/h	47.0
Speed SI	ope Coefficient	30.30657		Speed Power Coef	fficient	0.69074
PF Slope	Coefficient	-1.50563		PF Power Coefficie	ent	0.79558
In Passin	g Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	3.1
%Improv	ved % Followers	0.0		% Improved Avg S	Speed	0.0
Subse	gment Data					
# Se	gment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tar	ngent	30624	-		-	37.9
Vehicle	e Results					
	0 1 14	37.9		Percent Followers,	. %	41.8
Average	Speed, mi/h			I crecite i onowers,		
	t Travel Time, minutes	9.19		Followers Density,		3.1

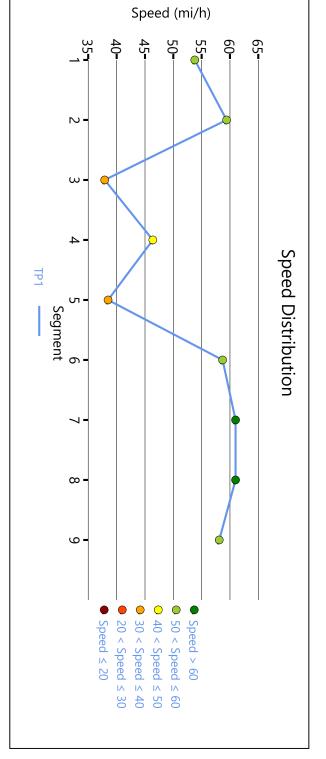
			Se	gn	nent 4			
Vel	hicle Inputs							
Segi	ment Type	Pass	sing Lanes		Length, ft			25872
Mea	asured FFS	Mea	asured		Free-Flow Speed, mi/h		47.0	
De	mand and Capacity							
Dire	ectional Demand Flow Rate, veh/h	243			Opposing Demand Flow Rate, veh/h			-
Peak	k Hour Factor	0.94	1		Total Trucks, %			31.00
Segi	ment Capacity, veh/h	110	0		Demand/Capacity	(D/C	<u>.</u>)	0.22
Int	ermediate Results							
Segi	ment Vertical Class	2			Free-Flow Speed,	mi/h		47.0
Spe	ed Slope Coefficient	ppe Coefficient 12.22850				fficie	nt	1.55917
PF S	Slope Coefficient	-0.9	1061	PF Power Coefficie	ent		0.78832	
In Pa	assing Lane Effective Length?	No			Total Segment De	nsity	veh/mi/ln	1.3
%Improved % Followers 0.0				% Improved Avg S	Speed	d	0.0	
Sul	bsegment Data							
#	Segment Type	Len	gth, ft	Rac	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	258	72	-		-		46.4
Pas	ssing Lane Results		Faster Lane				Slower Lane	
Elov	v Rate, veh/h		151		Slower Lane			
	centage of Heavy Vehicles (HV%), %		12.40		61.80			
	al Average Speed (Sint), mi/h		74.4		64.2			
	rage Speed at Midpoint (SPLmid), mi	 /h	76.4		62.2			
	cent Followers at Midpoint (PFPLmid)		11.4		0.3			
	hicle Results							
Aver	rage Speed, mi/h	46.4	1		Percent Followers,	%		25.8
	ment Travel Time, minutes	6.33			Followers Density,		wers/mi/ln	1.3
	icle LOS	Α			,			
			Se	gn	nent 5			
Vel	hicle Inputs							
	ment Type	Pass	sing Zone		Length, ft			12144
	asured FFS	+	asured		Free-Flow Speed,	mi/h		46.0
De	mand and Capacity							
	ectional Demand Flow Rate, veh/h	243			Opposing Demand	d Flo	w Rate, veh/h	276
	k Hour Factor	0.94			Total Trucks, %		, ,	31.00
_	ment Capacity, veh/h	170			Demand/Capacity	(D/0		0.14

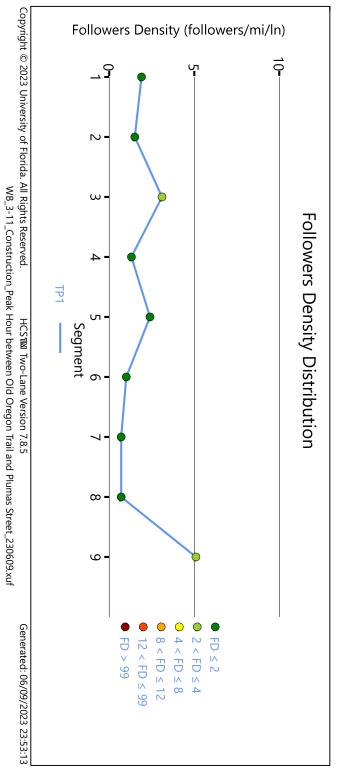
_	rmediate Results					
Segm	ent Vertical Class	4		Free-Flow Speed,	mi/h	46.0
Speed	d Slope Coefficient	30.65835		Speed Power Coef	fficient	0.70288
PF Slo	ppe Coefficient	-1.48821		PF Power Coefficie	ent	0.79349
In Pas	sing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	2.4
%lmp	roved % Followers	14.0		% Improved Avg S	Speed	0.9
Sub	segment Data					
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	12144	-		-	38.2
Vehi	icle Results					
Avera	ge Speed, mi/h	38.5		Percent Followers,	%	38.3
Segm	ent Travel Time, minutes	3.58		Followers Density,	followers/mi/ln	2.1
Vehicl	le LOS	А				
		<u>'</u>	Segi	ment 6		<u>'</u>
Vehi	icle Inputs					
	ent Type	Passing Zone		Length, ft		35904
	Width, ft	12		Shoulder Width, ft	i	6
Speed	d Limit, mi/h	55		Access Point Dens	ity, pts/mi	6.0
Den	nand and Capacity					<u>'</u>
Direct	tional Demand Flow Rate, veh/h	207		Opposing Demand	d Flow Rate, veh/h	240
Peak I	Hour Factor	0.94		Total Trucks, %		14.90
Segm	ent Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.12
	rmediate Results	•		<u> </u>		·
Inte						
	ent Vertical Class	2		Free-Flow Speed,	mi/h	59.8
Segm		2 4.60786		Free-Flow Speed, Speed Power Coef		59.8 0.63042
Segmo	ent Vertical Class			-	fficient	
Segmo Speed PF Slo	ent Vertical Class d Slope Coefficient	4.60786		Speed Power Coef	fficient	0.63042
Segmo Speed PF Slo In Pas	ent Vertical Class d Slope Coefficient ope Coefficient	4.60786 -1.20320		Speed Power Coefficie	fficient ent nsity, veh/mi/ln	0.63042 0.78760
Segmon Speed PF Slo In Pass %Imp	d Slope Coefficient ppe Coefficient ssing Lane Effective Length?	4.60786 -1.20320 Yes		Speed Power Coefficient Total Segment De	fficient ent nsity, veh/mi/ln	0.63042 0.78760 1.0
Segmond Speed PF Slo In Pass %Imp	d Slope Coefficient ppe Coefficient ssing Lane Effective Length?	4.60786 -1.20320 Yes	Ra	Speed Power Coefficient Total Segment De	fficient ent nsity, veh/mi/ln	0.63042 0.78760 1.0
Segmond Speed PF Slo In Pass %Imp	d Slope Coefficient ppe Coefficient ssing Lane Effective Length? proved % Followers segment Data	4.60786 -1.20320 Yes 8.6	Ra -	Speed Power Coefficient PF Power Coefficient Total Segment De % Improved Avg S	fficient ent nsity, veh/mi/In Speed	0.63042 0.78760 1.0 0.0
Segme Speed PF Slo In Pas %Imp	d Slope Coefficient ppe Coefficient ssing Lane Effective Length? proved % Followers segment Data Segment Type	4.60786 -1.20320 Yes 8.6	Ra -	Speed Power Coefficient PF Power Coefficient Total Segment De % Improved Avg S	fficient ent nsity, veh/mi/In Speed	0.63042 0.78760 1.0 0.0 Average Speed, mi/h
Segmond Speed PF Slo In Pass %Import Substitute 1 1 Vehi	d Slope Coefficient ppe Coefficient ssing Lane Effective Length? proved % Followers segment Data Segment Type Tangent	4.60786 -1.20320 Yes 8.6	Ra -	Speed Power Coefficient PF Power Coefficient Total Segment De % Improved Avg S	fficient ent nsity, veh/mi/ln speed Superelevation, %	0.63042 0.78760 1.0 0.0 Average Speed, mi/h
Segme Speed PF Slo In Pas %Imp Subs # 1	d Slope Coefficient ope Coefficient ssing Lane Effective Length? oroved % Followers segment Data Segment Type Tangent icle Results	4.60786 -1.20320 Yes 8.6 Length, ft 35904	Ra -	Speed Power Coefficient PF Power Coefficient Total Segment De % Improved Avg S	fficient ent nsity, veh/mi/ln Speed Superelevation, % -	0.63042 0.78760 1.0 0.0 Average Speed, mi/h 58.7

Veh	nicle Inputs							
Segr	ment Type	Pass	sing Lanes		Length, ft			15105
	· Width, ft	12			Shoulder Width, ft	t		6
Spee	ed Limit, mi/h	55			Access Point Dens	ity, p	ts/mi	4.0
Der	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	202			Opposing Demand	d Flo	w Rate, veh/h	-
Peak	Hour Factor	0.94	ļ		Total Trucks, %			14.90
Segr	ment Capacity, veh/h	140	0		Demand/Capacity	(D/C	<u> </u>	0.14
Inte	ermediate Results							
Segr	ment Vertical Class	1			Free-Flow Speed,	mi/h		61.2
Spee	ed Slope Coefficient	7.24			Speed Power Coef	fficie	nt	1.54401
i i	lope Coefficient	-0.9	6855		PF Power Coefficie			0.89690
	assing Lane Effective Length?	No			Total Segment De	nsity,	veh/mi/ln	0.7
%lm	proved % Followers	0.0			% Improved Avg S	Speed	t e	0.0
Suk	osegment Data							
#	Segment Type	Leng	 gth, ft	Rad	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	15105 -		-	<u> </u>	-	<u> </u>	61.0
Pas	sing Lane Results							
			Faster Lane				Slower Lane	
Flow	Rate, veh/h		131				72	
Perce	entage of Heavy Vehicles (HV%), %		5.96				31.23	
Initia	al Average Speed (Sint), mi/h		61.5				60.7	
Aver	age Speed at Midpoint (SPLmid), mi	h	63.2				58.9	
Perce	ent Followers at Midpoint (PFPLmid),	%	14.9				8.4	
Vel	nicle Results							
Aver	rage Speed, mi/h	61.0)		Percent Followers,	%		20.6
Segr	ment Travel Time, minutes	2.81			Followers Density,	follo	wers/mi/ln	0.7
Vehi	cle LOS	А						
			Se	gn	nent 8			
Ver	nicle Inputs							
	ment Type	Pass	sing Lanes		Length, ft			99999
	Width, ft	12	<u> </u>		Shoulder Width, ft	t		6
	ed Limit, mi/h	55			Access Point Dens		ts/mi	4.0
	mand and Capacity							
	ctional Demand Flow Rate, veh/h	202			Opposing Demand	d Flo	w Rate, veh/h	-
	Hour Factor	0.94			Total Trucks, %		. ,	14.90
1					· ·			1

Int	ermediate Results							
Segr	nent Vertical Class	1			Free-Flow Speed	mi/h		61.2
Spe	ed Slope Coefficient	7.28	3696		Speed Power Co	efficie	nt	1.58663
PF S	lope Coefficient	-0.9	6880		PF Power Coeffic	ient		0.89273
In Pa	assing Lane Effective Length?	No			Total Segment De	ensity	, veh/mi/ln	0.7
%lm	proved % Followers	0.0			% Improved Avg	Spee	d	0.0
Sul	osegment Data							
#	Segment Type	Len	gth, ft	Rac	lius, ft	Sup	perelevation, %	Average Speed, mi/h
1	Tangent	999	99	-		1-		61.0
Pas	sing Lane Results							
			Faster Lane				Slower Lane	
Flow	Rate, veh/h		131				72	
Perc	entage of Heavy Vehicles (HV%), %		5.96				31.23	
Initia	al Average Speed (Sint), mi/h		61.5				60.7	
Average Speed at Midpoint (SPLmid), mi/h 63.2						58.9		
Percent Followers at Midpoint (PFPLmid), % 15.0						8.6		
Veł	nicle Results							
Aver	rage Speed, mi/h	61.0)		Percent Followers	5, %		20.7
Segr	ment Travel Time, minutes	18.6	53		Followers Density	, follo	owers/mi/ln	0.7
Vehi	cle LOS	А						
			Se	egn	nent 9			
Veł	nicle Inputs							
Segr	ment Type	Pass	sing Zone		Length, ft			22704
Lane	e Width, ft	12			Shoulder Width,	ft		6
Spee	ed Limit, mi/h	55			Access Point Den	sity, p	ots/mi	8.0
Dei	mand and Capacity							
Dire	ctional Demand Flow Rate, veh/h	548			Opposing Demar	nd Flo	w Rate, veh/h	373
Peak	Hour Factor	0.94	1		Total Trucks, %			3.76
Segr	ment Capacity, veh/h	170	0		Demand/Capacity (D/C)			0.32
Inte	ermediate Results							
Segr	ment Vertical Class	1			Free-Flow Speed	mi/h		60.6
Spee	ed Slope Coefficient	3.68	3478		Speed Power Coe	efficie	nt	0.50130
PF S	lope Coefficient	-1.2	4770		PF Power Coeffic	ient		0.77267
In Pa	assing Lane Effective Length?	Yes			Total Segment De	ensity	, veh/mi/ln	5.1
%lm	proved % Followers	4.3			% Improved Avg	Spee	d	0.0
Sul	osegment Data							
#	Segment Type	Lan	gth, ft	D.	lius, ft	I	perelevation, %	Average Speed, mi/h

	Tangent	22704	-	-	58.1
Vel	Vehicle Results				
Aver	Average Speed, mi/h	58.1	Percent Followers, %		54.3
Segr	Segment Travel Time, minutes	4.44	Followers Density, followers/mi/ln		4.9
Vehi	Vehicle LOS	С			





	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2027
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	POST- CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 1 Adjustment Factor	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	pacity		·
Volume(V) veh/h	583	Heavy Vehicle Adjustment Factor (fHV)	0.942
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	329
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.16
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	6.1
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	310	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.36
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2027
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	POST- CONSTRUCTION_Segment 1- Eastbound - between I-5 and Hawley Road	Unit	United States Customary
Direction 2 Geometric Data			
Direction 2	Westbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	0.41
Measured or Base Free-Flow Speed	Base	Grade Length, mi	0.60
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	55.0		
Direction 2 Adjustment Factor	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 2 Demand and Cap	acity		·
Volume(V) veh/h	1108	Heavy Vehicle Adjustment Factor (fHV)	0.936
Peak Hour Factor	0.94	Flow Rate (Vp), pc/h/ln	630
Total Trucks, %	4.73	Capacity (c), pc/h/ln	2072
Single-Unit Trucks (SUT), %	30	Adjusted Capacity (cadj), pc/h/ln	2006
Tractor-Trailers (TT), %	70	Volume-to-Capacity Ratio (v/c)	0.31
Direction 2 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	11.8
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	В
Access Point Density Adjustment (fA)	0.0		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vol.),veh/h	589	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.68
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	PJV	Date	6/9/2023
Agency	California Energy Commission	Analysis Year	2027
Jurisdiction	Shasta County	Time Period Analyzed	PEAK HOUR
Project Description	POST- CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	Eastbound		
Number of Lanes (N), In	2	Terrain Type	Specific Grade
Segment Length (L), ft	-	Percent Grade, %	-0.08
Measured or Base Free-Flow Speed	Base	Grade Length, mi	1.70
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	0.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	5
Median Type	Divided	Total Lateral Clearance (TLC), ft	11
Free-Flow Speed (FFS), mi/h	54.6		
Direction 1 Adjustment Fact	ors		
Driver Population	Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
Driver Population SAF	0.975	Final Capacity Adjustment Factor (CAF)	0.968
Driver Population CAF	0.968		
Direction 1 Demand and Cap	pacity		
Volume(V) veh/h	483	Heavy Vehicle Adjustment Factor (fHV)	0.951
Peak Hour Factor	0.94	Flow Rate (V _p), pc/h/ln	270
Total Trucks, %	3.76	Capacity (c), pc/h/ln	2064
Single-Unit Trucks (SUT), %	23	Adjusted Capacity (cadj), pc/h/ln	1998
Tractor-Trailers (TT), %	77	Volume-to-Capacity Ratio (v/c)	0.14
Direction 1 Speed and Densi	ty		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	53.2
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D), pc/mi/ln	5.1
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.0		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	257	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	2.83
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С
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PJV	Date	6/9/2023
California Energy Commission	Analysis Year	2027
Shasta County	Time Period Analyzed	PEAK HOUR
POST- CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail	Unit	United States Customary
Westbound		
2	Terrain Type	Specific Grade
-	Percent Grade, %	0.08
Base	Grade Length, mi	0.60
55.0	Access Point Density, pts/mi	0.0
12	Left-Side Lateral Clearance (LCR), ft	6
Divided	Total Lateral Clearance (TLC), ft	12
55.0		
ors		
Mostly Familiar	Final Speed Adjustment Factor (SAF)	0.975
0.975	Final Capacity Adjustment Factor (CAF)	0.968
0.968		
pacity		
583	Heavy Vehicle Adjustment Factor (fHV)	0.950
0.94	Flow Rate (Vp), pc/h/ln	326
3.76	Capacity (c), pc/h/ln	2072
23	Adjusted Capacity (cadj), pc/h/ln	2006
77	Volume-to-Capacity Ratio (v/c)	0.16
ty		
0.0	Average Speed (S), mi/h	53.6
0.0	Density (D), pc/mi/ln	6.1
0.0	Level of Service (LOS)	А
0.0		
310	Effective Speed Factor (St)	4.79
18	Bicyle LOS Score (BLOS)	2.92
24	Bicycle Level of Service (LOS)	С
	California Energy Commission Shasta County POST- CONSTRUCTION_Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail Westbound 2 - Base 55.0 12 Divided 55.0 Divided 55.0 Divided 55.0 Dost Mostly Familiar 0.975 0.968 Dacity 583 0.94 3.76 23 77 ty 0.0 0.0 0.0 0.0 0.0 0.0 0.0 18 24	California Energy Commission Shasta County Time Period Analyzed POST- CONSTRUCTION Segment 2 - Eastbound - between Hawley Road and Old Oregon Trail Westbound 2 Terrain Type - Percent Grade, % Base Grade Length, mi 55.0 Access Point Density, pts/mi 12 Left-Side Lateral Clearance (LCR), ft Divided Total Lateral Clearance (TLC), ft 55.0 Mostly Familiar Final Speed Adjustment Factor (SAF) 0.975 Final Capacity Adjustment Factor (CAF) 0.968 Dacity 583 Heavy Vehicle Adjustment Factor (fHV) 583 Heavy Vehicle Adjustment Factor (fHV) 1 Capacity (Cp, pc/h/ln 2 Adjusted Capacity (cadj), pc/h/ln 77 Volume-to-Capacity Ratio (v/c) ty 0.0 Average Speed (S), mi/h 0.0 Density (D), pc/mi/ln 0.0 Level of Service (LOS) 310 Effective Speed Factor (Si) 18 Bicyle LOS Score (BLOS) 24 Bicycle Level of Service (LOS)

	HCS7 Two-Lar	ne Highway I	Report	
Project Information				
Analyst	Carlos Arias	Date		6/9/2023
Agency	Westwood	Analysis Year		2027
Jurisdiction	Shasta County	Time Period An	alyzed	Peak Hour
Project Description	Fountain Wind Two Land e-w E Bound - Along CA-299E from Old Orego Trail to Plumas Street			United States Customary
	Seg	gment 1		
Vehicle Inputs				
Segment Type	Passing Zone	Length, ft		22704
Lane Width, ft	12	Shoulder Width	, ft	6
Speed Limit, mi/h	55	Access Point De	ensity, pts/mi	8.0
Demand and Capacity				
Directional Demand Flow Rate, veh/h	285	Opposing Dema	and Flow Rate, veh/h	493
Peak Hour Factor	0.94	Total Trucks, %		3.76
Segment Capacity, veh/h	1700	Demand/Capac	ity (D/C)	0.17
Intermediate Results	·			
Segment Vertical Class	1	Free-Flow Spee	d, mi/h	60.6
Speed Slope Coefficient	3.71453	Speed Power Co	pefficient	0.48307
PF Slope Coefficient	-1.26236	PF Power Coeffi	cient	0.76680
In Passing Lane Effective Length?	No	Total Segment I	Density, veh/mi/ln	1.9
%Improved % Followers	0.0	% Improved Av	g Speed	0.0
Subsegment Data				
# Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	22704	-	-	58.9
Vehicle Results				
Average Speed, mi/h	58.9	Percent Followe	ers, %	38.3
Segment Travel Time, minutes	4.38	Followers Densi	ty, followers/mi/ln	1.9
Vehicle LOS	А			
	Seg	gment 2		
Vehicle Inputs				
	Passing Lanes	Length, ft		99999
Segment Type	1			
Segment Type Lane Width, ft	12	Shoulder Width	, ft	6

Dire	ctional Demand Flow Rate, veh/h	147		Opposir	ng Demand F	low Rate, veh/h	-
Peak	: Hour Factor	0.94	ļ	Total Tru			14.90
Segr	ment Capacity, veh/h	140	0	Demano	I/Capacity (D	/C)	0.10
Into	ermediate Results						<u>'</u>
Segr	ment Vertical Class	1		Free-Flo	w Speed, mi/	/h	61.2
Spe	ed Slope Coefficient	7.28	8696	Speed P	ower Coeffic	ient	1.58663
PF S	lope Coefficient	-0.9	6880	PF Powe	r Coefficient		0.89273
In Pa	assing Lane Effective Length?	No		Total Se	gment Densi	ty, veh/mi/ln	0.4
%lm	proved % Followers	0.0		% Impro	ved Avg Spe	ed	0.0
Sul	segment Data						
#	Segment Type	Leng	gth, ft	Radius, ft	Su	uperelevation, %	Average Speed, mi/h
1	Tangent	9999	99	-	-		61.1
Pas	sing Lane Results						
			Faster Lane			Slower Lane	
Flow	ow Rate, veh/h 98					49	
Perc	Percentage of Heavy Vehicles (HV%), % 5.96					32.62	
Initial Average Speed (Sint), mi/h 61.5					60.6		
Average Speed at Midpoint (SPLmid), mi/h 63.2			63.2			58.9	
Percent Followers at Midpoint (PFPLmid), % 11.8			i				
Perc	ent Followers at Midpoint (PFPLmid)	, %	11.8			6.1	
	ent Followers at Midpoint (PFPLmid) nicle Results	, %	11.8			6.1	
Veł	·	61.1		Percent	Followers, %	6.1	16.0
Vel Aver	nicle Results					6.1 Ilowers/mi/In	16.0
Vel Aver Segr	rage Speed, mi/h	61.1					
Vel Aver Segr	age Speed, mi/h	61.1	58		rs Density, fo		
Veh Aver Segr Vehi	age Speed, mi/h	61.1	58	Followe	rs Density, fo		
Veh Aver Segr Vehi	rage Speed, mi/h ment Travel Time, minutes cle LOS	61.1 18.5 A	58	Followe	rs Density, fo		
Veh Aver Segr Vehi Veh	age Speed, mi/h ment Travel Time, minutes cle LOS	61.1 18.5 A	58 S €	egment 3	rs Density, fo		0.4
Veh Aver Segr Vehi Veh Segr	age Speed, mi/h ment Travel Time, minutes cle LOS nicle Inputs ment Type	61.1 18.5 A	58 S €	Egment 3 Length, Shoulde	rs Density, fo	llowers/mi/ln	15105
Veh Aver Segr Vehi Veh Segr	rage Speed, mi/h ment Travel Time, minutes cle LOS nicle Inputs ment Type e Width, ft	61.1 18.5 A	58 S €	Egment 3 Length, Shoulde	rs Density, fo	llowers/mi/ln	0.4 15105 6
Veh Aver Segr Vehi Veh Segr Lane	rage Speed, mi/h ment Travel Time, minutes cle LOS nicle Inputs ment Type Width, ft ed Limit, mi/h	61.1 18.5 A	Se Sing Lanes	Egment 3 Length, Shoulde Access F	ft r Width, ft	llowers/mi/ln	0.4 15105 6
Veh Aver Segr Vehi Veh Segr Lane Spee Direc	age Speed, mi/h ment Travel Time, minutes cle LOS nicle Inputs ment Type Width, ft ed Limit, mi/h mand and Capacity	61.1 18.5 A Pass 12 55	Se Sing Lanes	Egment 3 Length, Shoulde Access F	ft r Width, ft Point Density,	llowers/mi/ln pts/mi	0.4 15105 6 4.0
Veh Aver Segr Vehi Veh Segr Lane Spee Der Diree	nicle Results age Speed, mi/h ment Travel Time, minutes cle LOS nicle Inputs ment Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h	61.1 18.5 A Pass 12 55	Se sing Lanes	Length, Shoulde Access F Opposir Total Tru	ft r Width, ft Point Density,	pts/mi	0.4 15105 6 4.0
Veh Aver Segr Vehi Veh Segr Lane Spee Direc Peak Segr	nicle Results age Speed, mi/h ment Travel Time, minutes cle LOS nicle Inputs ment Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h a Hour Factor	61.1 18.5 A Pass 12 55 147 0.94	Se sing Lanes	Length, Shoulde Access F Opposir Total Tru	ft r Width, ft Point Density, ng Demand F	pts/mi	0.4 15105 6 4.0
Veh Aver Segr Vehi Segr Lane Spee Der Direc Peak Segr	nicle Results age Speed, mi/h ment Travel Time, minutes cle LOS nicle Inputs ment Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor ment Capacity, veh/h	61.1 18.5 A Pass 12 55 147 0.94	Se sing Lanes	Length, Shoulde Access F Opposir Total Tru Demand	ft r Width, ft Point Density, ng Demand F	pts/mi low Rate, veh/h	0.4 15105 6 4.0
Veh Aver Segr Vehi Veh Segr Lane Spee Direc Peak Segr Into	age Speed, mi/h ment Travel Time, minutes cle LOS nicle Inputs ment Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h thour Factor ment Capacity, veh/h ermediate Results	61.1 18.5 A Pass 12 55 147 0.94 140	Se sing Lanes	Length, Shoulde Access F Opposir Total Tru Demand	ft r Width, ft Point Density, ng Demand F ncks, %	pts/mi low Rate, veh/h /C)	0.4 15105 6 4.0 - 14.90 0.10
Velane Segri Vehi Velane Spee Der Peak Segri Inte	nicle Results age Speed, mi/h ment Travel Time, minutes cle LOS nicle Inputs ment Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h thour Factor ment Capacity, veh/h ermediate Results ment Vertical Class	61.1 18.5 A Pass 12 55 147 0.94 1400	See Sing Lanes	Follower Pegment 3 Length, Shoulde Access F Opposir Total Tru Demand Free-Flo	ft r Width, ft Point Density, ng Demand F ricks, % l/Capacity (D	pts/mi low Rate, veh/h /C)	0.4 15105 6 4.0 - 14.90 0.10
Velane Segri Vehi Velane Segri Lane Spee Peak Segri Into	age Speed, mi/h ment Travel Time, minutes cle LOS nicle Inputs ment Type Width, ft ed Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h the Hour Factor ment Capacity, veh/h ermediate Results ment Vertical Class ed Slope Coefficient	61.1 18.5 A Pass 12 55 147 0.94 1400	sing Lanes	Follower Pagment 3 Length, Shoulde Access F Opposir Total Tru Demand Free-Flo Speed P PF Power	ft r Width, ft Point Density, ng Demand F ncks, % l/Capacity (D w Speed, mi/	pts/mi low Rate, veh/h /C)	0.4 15105 6 4.0 - 14.90 0.10 61.2 1.54401

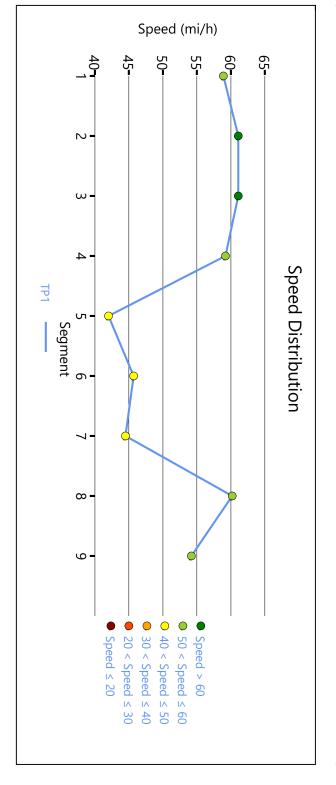
Sub	segment Data								
#	Segment Type	Leng	gth, ft		Radi	ius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	151	05		-		-		61.1
Pas	sing Lane Results								
			Faster Lane					Slower Lane	
Flow	Rate, veh/h		98					49	
Perce	entage of Heavy Vehicles (HV%), %		5.96					32.62	
Initia	l Average Speed (Sint), mi/h		61.5					60.6	
Avera	age Speed at Midpoint (SPLmid), n	ni/h	63.2					58.9	
Perce	ent Followers at Midpoint (PFPLmic	d), %	11.7					6.0	
Veh	icle Results								
Avera	age Speed, mi/h	61.1				Percent Followe	rs, %		15.9
Segn	nent Travel Time, minutes	2.81				Followers Densi	ty, follo	wers/mi/ln	0.4
Vehic	le LOS	А							
				Se	egm	nent 4			
Veh	icle Inputs								
Segn	nent Type	Pass	sing Zone			Length, ft			35904
Lane	Width, ft	12				Shoulder Width	, ft		6
Spee	d Limit, mi/h	55				Access Point De	nsity, p	ts/mi	6.0
Den	nand and Capacity								
Direc	tional Demand Flow Rate, veh/h	152				Opposing Dema	and Flo	w Rate, veh/h	152
Peak	Hour Factor	0.94	ļ			Total Trucks, %			14.90
Segm	nent Capacity, veh/h	170	0			Demand/Capaci	ty (D/C	<u>.</u>)	0.09
Inte	ermediate Results								
Segn	nent Vertical Class	2				Free-Flow Speed	d, mi/h		59.8
Spee	d Slope Coefficient	4.54	104			Speed Power Co	efficier	nt	0.66128
PF Slo	ope Coefficient	-1.1	7713			PF Power Coeffi	cient		0.79590
In Pa	ssing Lane Effective Length?	Yes				Total Segment D	Density,	veh/mi/ln	0.6
%lmp	proved % Followers	9.3				% Improved Av	g Speed	k	0.0
Sub	segment Data								
#	Segment Type	Leng	gth, ft		Radi	ius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	359	04		-		1-		59.2
Veh	icle Results								
Avor	age Speed, mi/h	59.2				Percent Followe	rs, %		23.1
Avera		6.90)			Followers Densi	ty, follo	wers/mi/ln	0.5
	nent Travel Time, minutes	1 0.00					,		

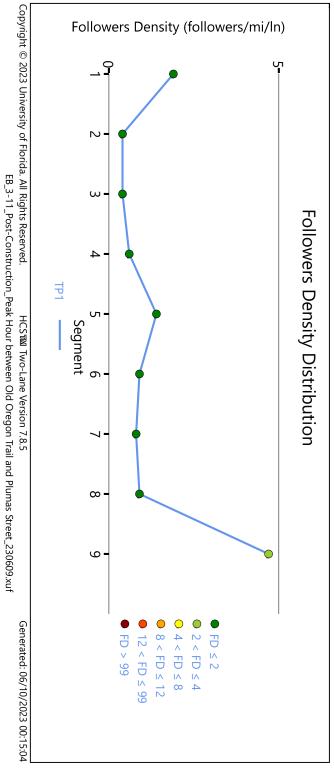
Vel	hicle Inputs					
Seg	ment Type	Passing Zone		Length, ft		12144
Mea	sured FFS	Measured		Free-Flow Speed,	mi/h	47.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	187		Opposing Demand	d Flow Rate, veh/h	187
Peal	k Hour Factor	0.94		Total Trucks, %		31.00
Seg	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.11
Int	ermediate Results					
Seg	ment Vertical Class	4		Free-Flow Speed,	mi/h	47.0
Spe	ed Slope Coefficient	30.49005		Speed Power Coef	fficient	0.74331
PF S	lope Coefficient	-1.43973		PF Power Coefficie	ent	0.80616
In P	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	1.4
%lm	proved % Followers	7.1		% Improved Avg S	Speed	0.0
Su	bsegment Data					
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	12144	1-		-	42.0
Vel	hicle Results					
Ave	rage Speed, mi/h	42.0		Percent Followers,	%	31.1
Seg	ment Travel Time, minutes	3.28		Followers Density,	followers/mi/ln	1.3
Veh	icle LOS	А				
		S	egn	nent 6		
Vel	hicle Inputs					
Seg	ment Type	Passing Lanes		Length, ft		25872
Mea	sured FFS	Measured		Free-Flow Speed,	mi/h	46.0
De	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	187		Opposing Demand	d Flow Rate, veh/h	T-
Peal	K Hour Factor	0.94		Total Trucks, %		31.00
Seg	ment Capacity, veh/h	1100		Demand/Capacity	(D/C)	0.17
Int	ermediate Results	<u>'</u>				
Seg	ment Vertical Class	2		Free-Flow Speed,	mi/h	46.0
Spe	ed Slope Coefficient	12.22850		Speed Power Coef	fficient	1.55917
PF S	lope Coefficient	-0.91332		PF Power Coefficie	ent	0.77795
In P	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.9
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Su	bsegment Data	·				
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	25872	-		-	45.7

Pas	ssing Lane Results								
			Faster Lane				Slower Lane		
Flov	v Rate, veh/h		120				67		
Perc	entage of Heavy Vehicles (HV%), %		12.40				64.30		
Initi	al Average Speed (Sint), mi/h		74.4				63.7		
Ave	rage Speed at Midpoint (SPLmid), mi	/h	76.4				61.7		
Perc	ent Followers at Midpoint (PFPLmid)	, %	9.2				0.0		
Vel	hicle Results								
Ave	rage Speed, mi/h	45.7	7		Percent Followers	, %		22.0	
Seg	ment Travel Time, minutes	6.43	3		Followers Density	, follo	owers/mi/ln	0.9	
Vehi	icle LOS	Α							
			Se	egn	nent 7				
Vel	hicle Inputs								
Seg	ment Type	Pass	sing Lanes		Length, ft			30624	
	sured FFS		asured		Free-Flow Speed,	mi/h		47.0	
De	mand and Capacity								
Dire	ctional Demand Flow Rate, veh/h	221			Opposing Deman	d Flo	w Rate, veh/h	-	
Peak Hour Factor 0.94			ı		Total Trucks, %			30.00	
Seg	ment Capacity, veh/h	110	0		Demand/Capacity	/ (D/C	<u> </u>	0.20	
Int	ermediate Results								
Seg	ment Vertical Class	4			Free-Flow Speed,	mi/h		47.0	
Spe	ed Slope Coefficient	28.7	73583		Speed Power Coe	fficie	nt	1.16507	
PF S	lope Coefficient	-0.8	2245		PF Power Coeffici	ent		1.06542	
In Pa	assing Lane Effective Length?	No		Total Segment Density, veh/mi/ln			0.8		
%lm	proved % Followers	0.0			% Improved Avg	Speed			
Sul	bsegment Data								
#	Segment Type	Len	gth, ft	Rac	dius, ft	Sup	erelevation, %	Average Speed, mi/h	
1	Tangent	306	24	Ī-		-		44.5	
Pas	ssing Lane Results								
			Faster Lane				Slower Lane		
Flov	v Rate, veh/h		140				82		
Perc	entage of Heavy Vehicles (HV%), %		12.00				60.75		
Initi	al Average Speed (Sint), mi/h		72.7				56.0		
Ave	rage Speed at Midpoint (SPLmid), mi	/h	74.7				54.0		
Perc	ent Followers at Midpoint (PFPLmid)	, %	11.4				-		
Vel	hicle Results								
	rage Speed, mi/h	44.5			Percent Followers	0/		15.2	

Seam	nent Travel Time, minutes	7.81	Followers Densi	ty, followers/mi/ln	0.8							
	cle LOS	Α	. 3	.,,	3.5							
			egment 8									
·	*.1. 1	36	- Silicit o									
	icle Inputs											
Segn	nent Type	Passing Zone	Length, ft		7392							
	Width, ft	12	Shoulder Width		6							
Spee	d Limit, mi/h	55	Access Point De	nsity, pts/mi	5.0							
Den	nand and Capacity											
Direc	tional Demand Flow Rate, veh/h	200	Opposing Dema	and Flow Rate, veh/h	205							
Peak	Hour Factor	0.94	Total Trucks, %		17.50							
Segn	nent Capacity, veh/h	1700	Demand/Capaci	ty (D/C)	0.12							
Inte	ermediate Results											
Segn	nent Vertical Class	1	Free-Flow Speed	d, mi/h	60.9							
Spee	d Slope Coefficient	3.62509	Speed Power Co	pefficient	0.53776							
PF SI	ope Coefficient	-1.20092	PF Power Coeffi	cient	0.80811							
In Pa	ssing Lane Effective Length?	Yes	Total Segment D	Density, veh/mi/ln	0.9							
%lmp	proved % Followers	13.9	% Improved Avg	g Speed	0.6							
Sub	segment Data											
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h							
1	Tangent	7392	-	-	59.8							
Veh	icle Results											
3 1		60.2	Percent Followe	rs, %	27.9							
_	age Speed, mi/h nent Travel Time, minutes	60.2		rs, % ty, followers/mi/ln	27.9 0.8							
Segm	<u> </u>											
Segm	nent Travel Time, minutes	1.40 A										
Segm	nent Travel Time, minutes	1.40 A	Followers Densi									
Segm Vehic	nent Travel Time, minutes cle LOS	1.40 A	Followers Densi									
Segm Vehice Veh Segm	nent Travel Time, minutes	1.40 A	Followers Densi	ty, followers/mi/ln	0.8							
Vehice Veh Segm Lane	nent Travel Time, minutes cle LOS nicle Inputs nent Type	1.40 A Se	Followers Densi egment 9 Length, ft	ty, followers/mi/ln	2640							
Vehice Vehice Vehice Segment	nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft	1.40 A Se Passing Constrained 12	Followers Densi egment 9 Length, ft Shoulder Width	ty, followers/mi/ln	0.8 2640 6							
Vehice Vehice Vehice Segm Lane Speed	nent Travel Time, minutes cle LOS sicle Inputs nent Type Width, ft d Limit, mi/h	1.40 A Se Passing Constrained 12	Followers Densi egment 9 Length, ft Shoulder Width Access Point De	ty, followers/mi/ln	0.8 2640 6							
Vehice Vehice Vehice Segm Lane Speed Den	nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity	1.40 A Se Passing Constrained 12 55	Followers Densi egment 9 Length, ft Shoulder Width Access Point De	ft nsity, pts/mi	2640 6 22.0							
Vehice Vehice Vehice Segm Lane Speed Den Direce Peak	nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h	Passing Constrained 12 55	Followers Densi egment 9 Length, ft Shoulder Width Access Point De Opposing Dema	ft nsity, pts/mi and Flow Rate, veh/h	2640 6 22.0							
Vehice Vehice Vehice Segm Lane Speed Den Direct Peak Segm	nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor	1.40 A Se Passing Constrained 12 55 471 0.94	Followers Densi egment 9 Length, ft Shoulder Width Access Point De Opposing Dema Total Trucks, %	ft nsity, pts/mi and Flow Rate, veh/h	0.8 2640 6 22.0							
Vehice Vehice Vehice Segm Lane Speed Den Direct Peak Segm Inte	nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h crmediate Results	1.40 A Se Passing Constrained 12 55 471 0.94	Followers Densi egment 9 Length, ft Shoulder Width Access Point De Opposing Dema Total Trucks, % Demand/Capaci	ft nsity, pts/mi and Flow Rate, veh/h ty (D/C)	0.8 2640 6 22.0							
Vehice Vehice Vehice Segm Lane Speed Direct Peak Segm Inte	nent Travel Time, minutes cle LOS nicle Inputs nent Type Width, ft d Limit, mi/h mand and Capacity ctional Demand Flow Rate, veh/h Hour Factor nent Capacity, veh/h	1.40 A Se Passing Constrained 12 55 471 0.94 1700	Followers Densi egment 9 Length, ft Shoulder Width Access Point De Opposing Dema Total Trucks, %	ft nsity, pts/mi and Flow Rate, veh/h ty (D/C)	2640 6 22.0 - 19.00 0.28							

			С	Vehicle LOS	<
4.2	followers/mi/ln	Followers Density, followers/mi/ln	0.55	Segment Travel Time, minutes	Ω
54.1	%	Percent Followers, %	54.2	Average Speed, mi/h	>
				Vehicle Results	
54.2	-		2640 -	1 Tangent	
Average Speed, mi/h	Superelevation, %	Radius, ft	Length, ft	# Segment Type	#
				Subsegment Data	S
0.0	speed	% Improved Avg Speed	10.6	%Improved % Followers	%
4.7	nsity, veh/mi/ln	Total Segment Density, veh/mi/ln	Yes	In Passing Lane Effective Length?	=





	HCS7 Two	o-Lane	Highway	Report	
Project Information					
Analyst	Carlos Arias		Date		6/9/2023
Agency	Westwood		Analysis Year		2027
Jurisdiction	Shasta County		Time Period A	nalyzed	Peak Hour
Project Description	Fountain Wind T e-w _ West Boun CA-299E from O Trail to Plumas S	ld - Along ld Oregon	Unit		United States Customary
		Segn	nent 1		
Vehicle Inputs					
Segment Type	Passing Constrai	ned	Length, ft		2640
Lane Width, ft	12		Shoulder Widt	h, ft	6
Speed Limit, mi/h	55		Access Point D	ensity, pts/mi	22.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	200		Opposing Den	nand Flow Rate, veh/h	-
Peak Hour Factor	0.94		Total Trucks, %)	19.00
Segment Capacity, veh/h	1700		Demand/Capa	city (D/C)	0.12
Intermediate Results					
Segment Vertical Class	2		Free-Flow Spe	ed, mi/h	55.5
Speed Slope Coefficient	3.88683		Speed Power (Coefficient	0.44359
PF Slope Coefficient	-1.43208		PF Power Coefficient		0.73380
In Passing Lane Effective Length?	No		Total Segment Density, veh/mi/ln		1.3
%Improved % Followers	0.0	0.0		vg Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	2640	-		-	54.1
Vehicle Results					
Average Speed, mi/h	54.1		Percent Follow	vers, %	35.6
Segment Travel Time, minutes	0.55		Followers Den	sity, followers/mi/ln	1.3
Vehicle LOS	А				
		Segn	nent 2		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		7392
= ·				h ft	6
Lane Width, ft	12		Shoulder Widt	11, 11	0

Directional Demand Flow Pate wat /h	205		Onnosina Damara	d Flow Rate, veh/h	200
Directional Demand Flow Rate, veh/h Peak Hour Factor	0.94		Total Trucks, %	u riow kate, ven/n	17.50
Segment Capacity, veh/h	1700		+	· (D (C)	0.12
5 , ,	1700		Demand/Capacity	(D/C)	0.12
Intermediate Results			_		
Segment Vertical Class	1		Free-Flow Speed,	mi/h	60.9
Speed Slope Coefficient	3.62315		Speed Power Coe	fficient	0.53925
PF Slope Coefficient	-1.19967		PF Power Coefficie	ent	0.80854
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.0
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	7392	-		-	59.8
Vehicle Results					
Average Speed, mi/h	59.8		Percent Followers	, %	28.4
Segment Travel Time, minutes	1.40		Followers Density	, followers/mi/ln	1.0
Vehicle LOS	А				
		Segn	nent 3		·
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		30624
Measured FFS Measured		Free-Flow Speed,	mi/h	47.0	
Demand and Capacity					
Directional Demand Flow Rate, veh/h	221		Opposing Deman	d Flow Rate, veh/h	221
Peak Hour Factor	0.94		Total Trucks, %		30.00
Segment Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.13
Intermediate Results	<u>.</u>				·
Segment Vertical Class	4		Free-Flow Speed,	mi/h	47.0
Speed Slope Coefficient	30.14962		Speed Power Coefficient		0.72693
PF Slope Coefficient	-1.46084		PF Power Coefficie	ent	0.80165
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	1.9
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	30624	-		-	40.5
Vehicle Results		Vehicle Results			
	40.5		Percent Followers.	, %	35.3
Vehicle Results Average Speed, mi/h Segment Travel Time, minutes	40.5 8.59		Percent Followers		35.3 1.9

			Se	egn	ment 4			
Vel	hicle Inputs							
Segi	ment Type	Pass	sing Lanes		Length, ft			25872
Mea	asured FFS	Mea	asured		Free-Flow Speed,	mi/h		47.0
De	mand and Capacity				·			·
Dire	ectional Demand Flow Rate, veh/h	187	,		Opposing Demand	d Flo	w Rate, veh/h	-
Peak	k Hour Factor	0.94	1		Total Trucks, %			31.00
Segi	ment Capacity, veh/h	110	0		Demand/Capacity	(D/C	<u>.</u>)	0.17
Int	ermediate Results							
Segi	ment Vertical Class	2			Free-Flow Speed,	mi/h		47.0
Spe	ed Slope Coefficient	12.2	22850		Speed Power Coef	ficie	nt	1.55917
PF S	Slope Coefficient	-0.9	1061		PF Power Coefficie	ent		0.78832
In Pa	assing Lane Effective Length?	No			Total Segment De	nsity,	veh/mi/ln	0.9
%lm	nproved % Followers	0.0			% Improved Avg S	peed	t l	0.0
Sul	bsegment Data							
#	Segment Type	Len	gth, ft	Rac	dius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	258	72	-		-		46.7
Pas	ssing Lane Results							
Faster Lane						Slower Lane		
	v Rate, veh/h		120		67			
	centage of Heavy Vehicles (HV%), %		12.40			64.30		
	al Average Speed (Sint), mi/h		74.4				63.7	
	rage Speed at Midpoint (SPLmid), mi		76.4			61.7		
Perc	ent Followers at Midpoint (PFPLmid),	%	9.2		0.0			
Vel	hicle Results							
Aver	rage Speed, mi/h	46.7	7		Percent Followers, %			21.6
Segi	ment Travel Time, minutes	6.29)		Followers Density,	follo	wers/mi/ln	0.9
Vehi	icle LOS	А						
			Se	gn	ment 5			
Vel	hicle Inputs							
Segi	ment Type	Pass	sing Zone		Length, ft			12144
Mea	asured FFS	Mea	asured		Free-Flow Speed,	mi/h		46.0
De	mand and Capacity							
Dire	ectional Demand Flow Rate, veh/h	187			Opposing Demand	d Flo	w Rate, veh/h	187
Peak	k Hour Factor	0.94	1		Total Trucks, %			31.00
Segi	ment Capacity, veh/h	170	0		Demand/Capacity	(D/C	<u></u>	0.11

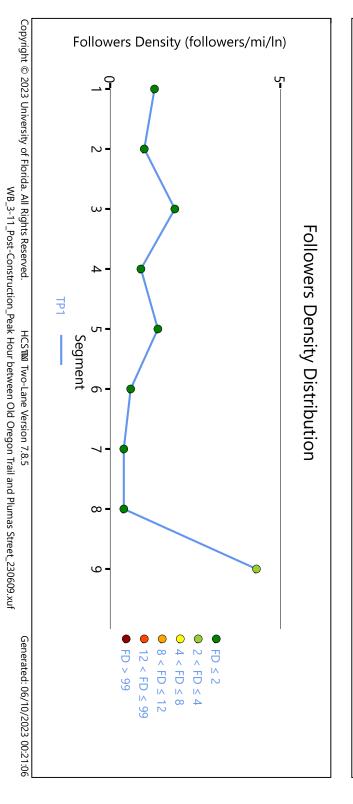
	ermediate Results					
Segr	ment Vertical Class	4		Free-Flow Speed,	mi/h	46.0
Spe	ed Slope Coefficient	30.49005		Speed Power Coef	ficient	0.74331
PF S	lope Coefficient	-1.44074		PF Power Coefficie	ent	0.80011
In Pa	assing Lane Effective Length?	Yes		Total Segment De	nsity, veh/mi/ln	1.4
%lm	proved % Followers	14.0		% Improved Avg S	Speed	0.5
Sul	osegment Data	·				·
#	Segment Type	Length, ft	Ra	adius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	12144	-		-	41.0
Vel	nicle Results					
Aver	rage Speed, mi/h	41.2		Percent Followers,	%	31.4
 Segr	ment Travel Time, minutes	3.35		Followers Density,	followers/mi/ln	1.2
Vehi	cle LOS	А				
		<u>'</u>	Seg	ment 6		,
Veł	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		35904
Lane	Width, ft	12		Shoulder Width, ft	:	6
Spe	ed Limit, mi/h	55		Access Point Dens	ity, pts/mi	6.0
Dei	mand and Capacity	<u>'</u>				•
Dire	ctional Demand Flow Rate, veh/h	152		Opposing Demand	152	
Peak	Hour Factor	0.94		Total Trucks, %	14.90	
	ment Capacity, veh/h	1700		Demand/Capacity	0.09	
Segr	Supusity, ven,					
	ermediate Results					
Into		2		Free-Flow Speed,	mi/h	59.8
Int	ermediate Results	2 4.54104		Free-Flow Speed, I		59.8 0.66128
Into Segr	ermediate Results ment Vertical Class				ficient	
Into Segr Spee	ermediate Results ment Vertical Class ed Slope Coefficient	4.54104		Speed Power Coef	ficient	0.66128
Segr Spee PF SI In Pa	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient	4.54104 -1.17713		Speed Power Coefficie	fficient ent nsity, veh/mi/ln	0.66128 0.79590
Into Segr Spee PF SI In Pa	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length?	4.54104 -1.17713 Yes		Speed Power Coefficient Total Segment Del	fficient ent nsity, veh/mi/ln	0.66128 0.79590 0.6
Into Segr Spee PF SI In Pa %Im	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers	4.54104 -1.17713 Yes	Rá	Speed Power Coefficient Total Segment Del	fficient ent nsity, veh/mi/ln	0.66128 0.79590 0.6
Segr Spee PF SI In Pa	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers psegment Data	4.54104 -1.17713 Yes 8.5	Ra	Speed Power Coefficient PF Power Coefficient Total Segment Dead % Improved Avg S	fficient ent nsity, veh/mi/In Speed	0.66128 0.79590 0.6 0.0
Interest Segrification Segrification Parameter Segrification Parameter Segrification S	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers psegment Data Segment Type	4.54104 -1.17713 Yes 8.5	Rá	Speed Power Coefficient PF Power Coefficient Total Segment Dead % Improved Avg S	fficient ent nsity, veh/mi/In Speed	0.66128 0.79590 0.6 0.0
Into Segr Spee PF SI In Pa %Im Suk #	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers psegment Data Segment Type Tangent	4.54104 -1.17713 Yes 8.5	Ra -	Speed Power Coefficient PF Power Coefficient Total Segment Dead % Improved Avg S	ficient ent nsity, veh/mi/ln speed Superelevation, %	0.66128 0.79590 0.6 0.0
Intersection Segretary Speed PF SI In Part Market Market PF Sukker Market PF SI November 1 Veh Aver	ermediate Results ment Vertical Class ed Slope Coefficient lope Coefficient assing Lane Effective Length? proved % Followers psegment Data Segment Type Tangent nicle Results	4.54104 -1.17713 Yes 8.5 Length, ft 35904	Ra -	Speed Power Coefficient PF Power Coefficient Total Segment Dem % Improved Avg Segment Avg Segment Dem adius, ft	fficient ent ent sity, veh/mi/ln speed Superelevation, % -	0.66128 0.79590 0.6 0.0 Average Speed, mi/h 59.2

Veh	nicle Inputs								
	nent Type	Pace	sing Lanes		Length, ft			15105	
	Width, ft	12	onig Lailes		Shoulder Width, ft			6	
	ed Limit, mi/h	55			Access Point Dens		ts/mi	4.0	
	mand and Capacity	75			1 100000 TOMIC BOTTS	۲ رو-	,		
	ctional Demand Flow Rate, veh/h	147			Opposing Demand	d Flo	w Rate, veh/h	-	
	Hour Factor	0.94			Total Trucks, %	<i>i</i> = <i>i</i> =	<u>.</u>	14.90	
Segn	nent Capacity, veh/h	140	0		Demand/Capacity	(D/C	.)	0.10	
Inte	ermediate Results								
Segn	nent Vertical Class	1			Free-Flow Speed,	mi/h		61.2	
Spee	d Slope Coefficient	7.24	1983		Speed Power Coef	fficier	nt	1.54401	
PF SI	ope Coefficient	-0.9	6855		PF Power Coefficie	ent		0.89690	
In Pa	ssing Lane Effective Length?	No			Total Segment De	nsity,	veh/mi/ln	0.4	
%lm	proved % Followers	0.0			% Improved Avg S	Speed	d	0.0	
Sub	segment Data								
#	Segment Type	Leng	gth, ft	Rad	lius, ft	Sup	erelevation, %	Average Speed, mi/h	
1	Tangent	151	05	-		-		61.1	
Pas	sing Lane Results								
			Faster Lane				Slower Lane		
Flow Rate, veh/h 98			98				49		
Perce	entage of Heavy Vehicles (HV%), %		5.96		32.62		32.62		
Initia	l Average Speed (Sint), mi/h		61.5		60.6				
Avera	age Speed at Midpoint (SPLmid), mi/l	h	63.2		58.9				
Perce	ent Followers at Midpoint (PFPLmid),	%					6.0		
Veh	nicle Results								
Avera	age Speed, mi/h	61.1			Percent Followers, %			15.9	
Segn	nent Travel Time, minutes	2.81		Followers Density, followers		wers/mi/ln	0.4		
Vehic	cle LOS	Α			Tollowers Density, followers, fill, fill				
			Se	gn	nent 8				
Veh	nicle Inputs								
	nent Type	Pass	sing Lanes		Length, ft			99999	
	Width, ft	12	<u> </u>		Shoulder Width, ft	t		6	
	d Limit, mi/h	55			Access Point Dens		ts/mi	4.0	
	mand and Capacity					, ,			
	ctional Demand Flow Rate, veh/h	147			Opposing Demand	d Flo	w Rate, veh/h	-	
	Hour Factor	0.94	ļ		Total Trucks, %			14.90	

Inte	ermediate Results							
	nent Vertical Class	1			Free-Flow Speed,	mi/h		61.2
	d Slope Coefficient	_	 3696		Speed Power Coe			1.58663
	<u> </u>		16880		PF Power Coefficie		nt 	0.89273
	ope Coefficient	+	70000					
	ssing Lane Effective Length?	No			Total Segment De			0.4
	proved % Followers	0.0			% Improved Avg S	speed	<u> </u>	0.0
Sub	segment Data							
#	Segment Type	Len	gth, ft	Rac	lius, ft	Sup	erelevation, %	Average Speed, mi/h
1	Tangent	999	99	-		-		61.1
Pas	sing Lane Results							
			Faster Lane				Slower Lane	
Flow	Rate, veh/h		98				49	
Perce	entage of Heavy Vehicles (HV%), %		5.96				32.62	
Initia	l Average Speed (Sint), mi/h		61.5				60.6	
Aver	age Speed at Midpoint (SPLmid), mi	/h	63.2				58.9	
Perce	ent Followers at Midpoint (PFPLmid)	, %	11.8				6.1	
Veh	icle Results							
Avera	age Speed, mi/h	61.1	1		Percent Followers,	, %		16.0
Segn	nent Travel Time, minutes	18.5	58		Followers Density,	, follo	owers/mi/ln	0.4
Vehic	cle LOS	Α						
			Se	gn	nent 9			
Veh	icle Inputs							
Segn	nent Type	Pass	sing Zone		Length, ft			22704
Lane	Width, ft	12			Shoulder Width, ft		6	
Spee	d Limit, mi/h	55			Access Point Density, pts/mi			8.0
Der	nand and Capacity	<u> </u>						
Direc	tional Demand Flow Rate, veh/h	493			Opposing Demand Flow Rate, veh/h			285
Peak	Hour Factor	0.94	1		Total Trucks, %			3.76
Segn	nent Capacity, veh/h	170	0		Demand/Capacity	(D/C	<u> </u>	0.29
Inte	ermediate Results							
Segn	nent Vertical Class	1			Free-Flow Speed,	mi/h		60.6
Spee	d Slope Coefficient	3.65	5951		Speed Power Coe	fficie	nt	0.51835
PF SI	ope Coefficient	-1.2	3352		PF Power Coefficie			0.77779
In Pa	ssing Lane Effective Length?	Yes			Total Segment De	nsity,	, veh/mi/ln	4.3
%lm _l	proved % Followers	4.8			% Improved Avg S	Speed	d	0.0
Sub	segment Data							

	Tangent	22704		1	58.3
Veh	Vehicle Results				
Avera	Average Speed, mi/h	58.3	Percent Followers, %	%	50.9
Segn	Segment Travel Time, minutes	4.42	Followers Density, followers/mi/ln	followers/mi/ln	4.1
Vehic	Vehicle LOS	С			

40	Speed (m		Speed Distribution	Vehicle LOS C	segment Travel Time, minutes 4.42	Average Speed, mi/h 58.3	Vehicle Results	
Segment 9			oution		Followers Density, followers/mi/ln	Percent Followers, %		_
Speed ≤ 20	 50 < Speed ≤ 60 40 < Speed ≤ 50 30 < Speed ≤ 40 20 < Speed ≤ 30 	• Speed > 60			4.1	50.9		

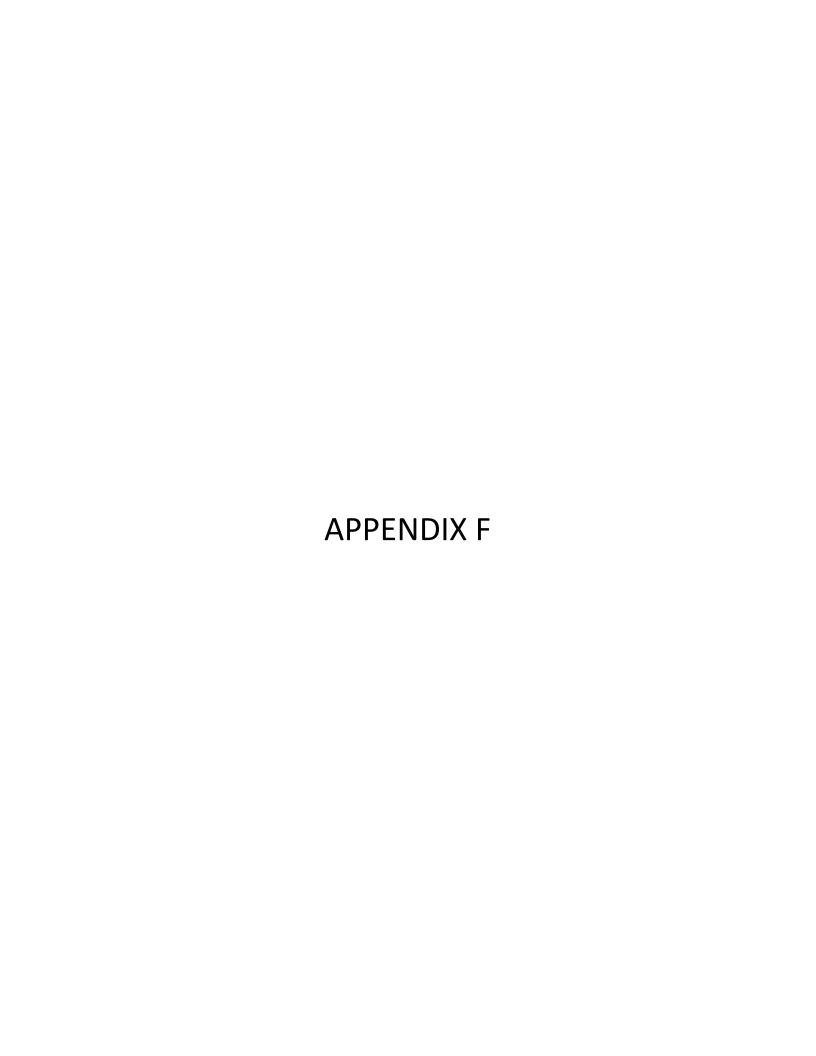




APPENDIX E – Potential Transportation Environmental Protection Measures for the Fountain Wind Project

D	M		Implem	entation	
Resource Category	Measure	Preconstruction	Construction	Operations	Decommissioning
Transportation					
TRANS-1	[Project] will coordinate with CalTrans and Shasta County to	X	X		
	implement a Transportation and Traffic Management Plan				
	that minimizes risks and inconvenience to the public, while				
	ensuring safe and efficient construction of the Project. The				
	plan will focus on turbine component deliveries, traffic and				
	circulation primarily within and in the vicinity of the Project				
	area. It will be designed to minimize potential hazards from				
	increased truck traffic and worker traffic and to minimize				
	impacts to traffic flow in the vicinity of the Project.				
TRANS-2	To minimize conflicts between Project traffic and background		X		
	traffic, deliveries of project components will be scheduled				
	around local volume peaks to the extent feasible.				
TRANS-3	Road clearances may include temporarily blocking road		Х		Х
	intersections via construction cones and/or staffing blocked				
	intersections with a traffic-control flagger to allow haul trucks				
	sole access to the road while delivering Project components.				
	If required, public road closures are not expected to exceed				
	15 minutes during each/any road closure event.				
TRANS-4	The Project will coordinate with CalTrans to determine	Х	Х		
	whether temporary speed limit reductions during				
	construction are applicable where Project access points				
	intersect with State Highway 299.				
TRANS-5	Construction deliveries would be coordinated to avoid major		Х		
	traffic-generating events in Redding, to the extent practicable.				
TRANS-6	The Project would coordinate with local law enforcement, to		X		Х
	manage traffic flows and monitor traffic speed during				
	deliveries.				
TRANS-7	All staging activities and parking of equipment and vehicles		Х		
	would occur within the Project Area and would not occur on				
	maintained State Highways or County roads.				

Danassan Catagonis	Manager		Implem	entation	
Resource Category	Measure	Preconstruction	Construction	Operations	Decommissioning
TRANS-8	Equipment and material deliveries to the site would be		X		X
	performed by professional transportation companies familiar				
	with the type of equipment, loads involved, and U.S. DOT,				
	CalTrans, and Shasta County regulations.				
TRANS-9	Road signs would be erected to notify travelers and local		Х		
	residents that construction is occurring in the area and				
	provide information regarding the timing and route for				
	oversized vehicle movements and deliveries. The				
	erection/placement of road signs and the Project construction				
	activities would be performed in accordance with the Shasta				
	County and CalTrans requirements.				
TRANS-10	Escort vehicles would assist delivery of oversized turbine		X		
	components to give drivers additional warning of oversized				
	loads.				



Intersection						
Int Delay, s/veh	1					
	EDT	EDD	WDI	WDT	N IVA /I	NIMD
Movement	EBT	EBR	WBL	WBT	NWL	NWR
Lane Configurations	110	Ε1	22	4	Y	٨
Traffic Vol, veh/h	116	51	33	62	0	0
Future Vol, veh/h	116	51	33	62	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	- 4 0	-	-	-	0	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	126	55	36	67	0	0
Major/Minor I	Major1	ı	Major2		Minor1	
Conflicting Flow All	0	0	181	0	293	154
Stage 1	-	-	-	-	154	-
Stage 2	_	_	_	_	139	_
Critical Hdwy	_	_	4.12	_	6.42	6.22
Critical Hdwy Stg 1	_	<u>_</u>	7.12	_	5.42	0.22
Critical Hdwy Stg 2	_	_	_	_	5.42	_
Follow-up Hdwy	_	_	2.218	_		
Pot Cap-1 Maneuver	_		1394	_	698	892
Stage 1	_	_	1004	_	874	- 032
Stage 2				_	888	
Platoon blocked, %	_	-	-	_	000	-
		-	1394		670	892
Mov Cap-1 Maneuver	-	-	1394	-	679	
Mov Cap-2 Maneuver	-	-	-	-	679	-
Stage 1	-	-	-	-	874	-
Stage 2	-	-	-	-	864	-
Approach	EB		WB		NW	
HCM Control Delay, s	0		2.7		0	
HCM LOS			,		A	
					,,	
Minor Lane/Major Mvm	nt N	IWLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		-	-		1394	-
HCM Lane V/C Ratio		-	-	-	0.026	-
HCM Control Delay (s)		0	-	-	7.7	0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(veh)		-	-	-	0.1	-
· · · · · · · · · · · · · · · · · · ·						

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Intersection						
Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	\$	וטו	TTDL	<u>₩</u>	¥	אוטוז
Traffic Vol, veh/h	76	40	27	103	0	0
Future Vol, veh/h	76	40	27	103	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage,	# 0	_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	83	43	29	112	0	0
MAINIT LIOM	03	43	29	112	U	U
Major/Minor M	1ajor1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	126	0	275	105
Stage 1	-	-	-	-	105	-
Stage 2	-	-	-	-	170	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	_	-	-	-	5.42	-
Critical Hdwy Stg 2	_	_	-	-	5.42	-
Follow-up Hdwy	_	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	_	-	1460	-	715	949
Stage 1	_	_	_	_	919	-
Stage 2	-	-	-	-	860	_
Platoon blocked, %	_	_		_	000	
Mov Cap-1 Maneuver	_	_	1460	_	700	949
Mov Cap-2 Maneuver	_	_	-	_	700	-
Stage 1	_	_	_	_	919	_
Stage 2	_	_	_	_	842	_
Stage 2		-			042	_
Approach	EB		WB		NB	
HCM Control Delay, s	0		1.6		0	
HCM LOS					Α	
					WBL	WBT
Minor Long/Maiar M.		UDI 4			WHI	WHI
Minor Lane/Major Mvmt		NBLn1	EBT	EBR		
Capacity (veh/h)		-	EBT -	-	1460	-
Capacity (veh/h) HCM Lane V/C Ratio	1	-	-	-	1460 0.02	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		- - 0	-	- - -	1460 0.02 7.5	- - 0
Capacity (veh/h) HCM Lane V/C Ratio	ľ	-	-	-	1460 0.02	-

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Intersection						
Int Delay, s/veh	1.3					
		EDE	MO	MOT	N IV A 17	A III A / E
Movement	EBT	EBR	WBL	WBT	NWL	NWR
Lane Configurations	f)			4	À	
Traffic Vol, veh/h	138	0	0	155	27	18
Future Vol, veh/h	138	0	0	155	27	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	150	0	0	168	29	20
	lajor1		Major2	- 1	Minor1	
Conflicting Flow All	0	0	150	0	318	150
Stage 1	-	-	-	-	150	-
Stage 2	-	-	-	-	168	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1431	-	675	896
Stage 1	_	_		_	878	-
Stage 2	_	_	_	_	862	_
Platoon blocked, %	_	_		_	302	
Mov Cap-1 Maneuver	_	_	1431	_	675	896
Mov Cap-1 Maneuver	_		-	_	675	-
Stage 1	_				878	
•		-	_	_	862	-
Stage 2	-	-	-	-	002	-
Approach	EB		WB		NW	
HCM Control Delay, s	0		0		10.1	
HCM LOS					В	
Minor Lane/Major Mvmt	N	IWLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		749	-	-	1431	-
HCM Lane V/C Ratio		0.065	-	-	-	-
HCM Control Delay (s)		10.1	-	-	0	-
HCM Lane LOS		В	-	-	Α	-
HCM 95th %tile Q(veh)		0.2	-	-	0	-
., .						

Synchro 11 Report Page 1 PM During Construction

Intersection						
Int Delay, s/veh	1.2					
		===	14/=:	14/5-		
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	₽			- 4	W	
Traffic Vol, veh/h	161	0	0	126	22	15
Future Vol, veh/h	161	0	0	126	22	15
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	175	0	0	137	24	16
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	175	0	312	175
Stage 1	-	-	-	-	175	-
Stage 2	-	-	-	-	137	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	_	-	2.218	_	3.518	3.318
Pot Cap-1 Maneuver	_	_	1401	-	681	868
Stage 1	_	_	_	_	855	-
Stage 2	_	_	_	_	890	_
Platoon blocked, %	_	_		_	000	
Mov Cap-1 Maneuver	_		1401	_	681	868
Mov Cap-1 Maneuver	_	_	1401	_	681	- 000
		-			855	-
Stage 1	-	-		-		
Stage 2	-	-	-	-	890	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.1	
HCM LOS	-				В	
110111 200						
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		746	-	-	1401	-
HCM Lane V/C Ratio		0.054	-	-	-	-
HCM Control Delay (s)		10.1	-	-	0	-
HCM Lane LOS		В	-	-	Α	-
HCM 95th %tile Q(veh)		0.2	-	-	0	-

Synchro 11 Report Page 2 PM During Construction

Intersection						
Int Delay, s/veh	0.2					
	EBT	EBR	WBL	WBT	NWL	NWR
		EDR	VVDL			INVVIX
Lane Configurations	}	1	1	4	Y	0
Traffic Vol, veh/h	44	4	4	166	0	0
Future Vol, veh/h	44	4	4	166	0	0
Conflicting Peds, #/hr	_ 0	_ 0	_ 0	0	0	0
3	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None		None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	48	4	4	180	0	0
Major/Minor NA	oio=1		Mais		Minard	
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	52	0	238	50
Stage 1	-	-	-	-	50	-
Stage 2	-	-	-	-	188	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	_	-	1554	-	750	1018
Stage 1	_	_	-	_	972	-
Stage 2	_	_	_	_	844	_
Platoon blocked, %	_	_		_	011	
Mov Cap-1 Maneuver		_	1554		748	1018
•		-	1554	-		
Mov Cap-2 Maneuver	-	-		-	748	-
Stage 1	-	-	-	-	972	-
Stage 2	-	-	-	-	841	-
Approach	EB		WB		NW	
	0		0.2		0	
HCM Control Delay, s HCM LOS	U		0.2			
HOIVI LOS					Α	
Minor Lane/Major Mvmt	N	IWLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		-	_		1554	_
HCM Lane V/C Ratio		_	_		0.003	_
HCM Control Delay (s)		0	_	_	7.3	0
					Α.	A
HCM Lane LOS		Δ	-	_	<u> </u>	
HCM Lane LOS HCM 95th %tile Q(veh)		A	-	-	0	- -

Synchro 11 Report Page 1 Post Construction - AM

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1>			4	¥	
Traffic Vol., veh/h	135	4	4	49	0	0
Future Vol, veh/h	135	4	4	49	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage,	# 0	_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	147	4	4	53	0	0
WWITE I IOW	177	7	7	55	U	U
Major/Minor M	1ajor1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	151	0	210	149
Stage 1	-	-	-	-	149	-
Stage 2	-	-	-	-	61	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1430	_	778	898
Stage 1	-	-	-	-	879	-
Stage 2	-	-	-	-	962	-
Platoon blocked, %	_	-		_		
Mov Cap-1 Maneuver	-	-	1430	_	776	898
Mov Cap-2 Maneuver	-	_	-	_	776	-
Stage 1	_	_	_	_	879	_
Stage 2	_	_	_	_	959	_
Clayo L					303	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.6		0	
HCM LOS					Α	
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
		NDLIII				
Capacity (veh/h)		-	-		1430	-
HCM Central Delay (a)		-	-		0.003	-
HCM Control Delay (s) HCM Lane LOS		0	-	-	7.5	0
HCM 95th %tile Q(veh)		Α	-	-	A	Α
HOW SOUL WILLE M(VEN)		-	-	-	0	-

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Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NWL	NWR
Lane Configurations	1→			र्स	N/	
Traffic Vol, veh/h	197	0	0	144	4	4
Future Vol, veh/h	197	0	0	144	4	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	214	0	0	157	4	4
WWW	211	•	V	101	•	•
	Major1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	214	0	371	214
Stage 1	-	-	-	-	214	-
Stage 2	-	-	-	-	157	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	_	1356	-	630	826
Stage 1	-	-	-	-	822	-
Stage 2	-	-	-	-	871	-
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	_	_	1356	_	630	826
Mov Cap-2 Maneuver	_	_	-	_	630	-
Stage 1	_	_	_	_	822	_
Stage 2	_	_	_	_	871	_
Olage 2					0/1	
Approach	EB		WB		NW	
HCM Control Delay, s	0		0		10.1	
HCM LOS					В	
Minor Long/Major Mar	nt N	IWLn1	EDT	EDD	WDI	WBT
Minor Lane/Major Mvn	nt N		EBT	EBR	WBL	
Capacity (veh/h)		715	-	-	1356	-
HCM Lane V/C Ratio		0.012	-	-	-	-
HCM Control Delay (s)	10.1	-	-	0	-
HCM Lane LOS HCM 95th %tile Q(veh	`	B 0	-	-	A 0	-
			_	_	- ()	-

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Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1>			र्स	Y	
Traffic Vol. veh/h	201	0	0	138	4	4
Future Vol, veh/h	201	0	0	138	4	4
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	_	None
Storage Length	-	-	-	-	0	-
Veh in Median Storag	e,# 0	-	-	0	0	-
Grade, %	0	-	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	218	0	0	150	4	4
		•	•			
N.A (N.A.)			4 . 0			
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	218	0	368	218
Stage 1	-	-	-	-	218	-
Stage 2	-	-	-	-	150	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	
Pot Cap-1 Maneuver	-	-	1352	-	632	822
Stage 1	-	-	-	-	818	-
Stage 2	-	-	-	-	878	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1352	-	632	822
Mov Cap-2 Maneuver		-	-	-	632	-
Stage 1	-	-	-	-	818	-
Stage 2	-	-	-	-	878	-
J						
A	ED		\A/D		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.1	
HCM LOS					В	
Minor Lane/Major Mvr	mt 1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		715		-	1352	-
HCM Lane V/C Ratio		0.012	_	_	-	_
HCM Control Delay (s	;)	10.1	_	_	0	_
HCM Lane LOS	7	В	_	_	A	_
HCM 95th %tile Q(veh	າ)	0	_	-	0	-
	,					

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Table 9-25. Suggested Left-Turn Treatment Guidelines Based on Results from Benefit–Cost Evaluations for Intersections on Two-Lane Highways in Rural Areas (16)

Left-Turn Lane Peak-Hour Volume (veh/h)	Three-Leg Intersection, Major-Road Two-Lane Highway Peak-Hour Volume (veh/h/ln) that Warrants a Bypass Lane	Three-Leg Intersection, Major-Road Two-Lane Highway Peak-Hour Volume (veh/h/ln) that Warrants a Left-Turn Lane	Four-Leg Intersection, Major-Road Two-Lane Highway Peak-Hour Volume (veh/h/ln) that Warrants/a Left-Turn Lane
5	50	200	150
10	50	100	\50
15	< 50	100	≫
20	< 50	50	₹ 50
25	< 50	50	< 50
30	< 50	50	< 50
35	< 50	50	< 50
40	< 50	50	< 50
45	< 50	50	< 50
50 or More	< 50	50	< 50

Note: These guidelines apply where the major road is uncontrolled and the minor-road approaches are stop- or yield-controlled. Both the left-turn peak-hour volume and the major-rad volume warrants should be met as shown in Figure 9-36.

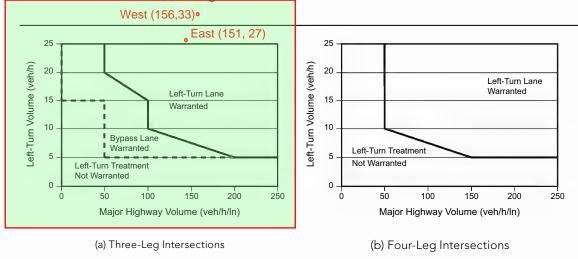


Figure 9-36. Suggested Left-Turn Treatment Warrants Based on Results from Benefit–Cost Evaluations for Intersections on Two-Lane Highways in Rural Areas (16)

The construction and post construction volumes have been applied using the AASHTO warrants above, and have yielded the following results:



Data Request Identifier	Request Source	Topic	Information	Adequate	Information Required To Make AFC Conform With Regulations	Applicant Response
	Deficiency Letter Matrix	Traffic and Transportation	provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	No	Please expand the analysis of Impact 3.14-2. Impact 3.14-2 of Secion 3.14.3 (Direct and Indirect Effects) presents the analysis of the project relative to CEQA Guidelines Section 15064.3(b), which relates to the evaluation of a project's transportation impacts. Specifically, analysis using vehicle miles of travel (VMT) is identified as the most appropriate measure for the analysis of transportation impacts. The analysis of Impact 3.14-2 relies on GHG analysis in Sections 3.10, GHG Emissions, since the intent of SB 743 is to encourage land use and transportation planning decisions and investments that reduce VMT threshold, the County decided to rely on an established environmental standard that is protective of resources of legislative concern. The less-than-significant impact finding is in part a result of a potential net offset of annual CO2e emissions with implementation (i.e., due to ongoing power generation). The VMT analysis demonstrates that the project will result in a short-term increase in VMT during construction. However, no discussion or analysis is presented of potential TDM strategies (carpooling, ridesharing, etc) or other measures that could be implemented to reduce VMT during construction, although identified in Appendix H, Page 17.	See Section 8.1 of the Updated TIA for discussion of carpooling as a means to reduce construction-related VMT.
	Deficiency Letter Matrix	Traffic and Transportation	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	No	Please update Section 3.14.1.3 (Regulatory Setting) of the DEIR Transportation Section. The Regulatory Setting should include reference to the Regional Transportation Plan & Sustainable Communities Strategy for the Shasta Region and Caltrans Transportation Concept reports for each State route in the study area. Also please verify the scale of Exhibit 1 of the Traffic report.	The Regulatory Setting section of the CEC EIR made a reference to the Regional Transporation Plan and Sustainable Communities Strategy for the Shasta Region (2015) and the Route 299 TCR (210). Links to these documents are provided here: https://dot.ca.gov/-/media/dot-media/district-1/documents/Signed-FINAL-299-TCR-12_10-a11y and https://www.srta.ca.gov/142/Regional-Transportation-Plan. Table 1.2 of the Updated TIA for more information about the functional classification, truck route designations, and weight and load limitations of California State Route 299. Exhibit 1 is scaled as printed.
TRAF-004	Deficiency Letter Matrix	Traffic and Transportation	An identification, on topographic maps at a scale of 1:24,000, and a description of existing and planned roads, rail lines, (including light rail), bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following, where applicable:	No	Please expand the description of regional and local roadways affected and/or serving the proposed project. For logical study segments, the descriptions should summarize the roadway functional classification number of directional travel lanes, posted speed limits, average daily traffic volumes served, applicable weight restrictions, and truck route designation. Also please verify the scale of Exhibit 1 of the Traffic report.	The requested information is included in Tables 1.1 and 1.2 of the revised report. Each exhibit is scaled as printed.
TRAF-005	Deficiency Letter Matrix	Traffic and Transportation	Road classification and design capacity;	No	Please update the capacities documented in Table 3.14-2. The hourly capacities presented are base capacity values, representative of ideal conditions. Base capacities do not account for the impacts of heavy vehicles, grades or other sources of friction that will lower the capacity of a freeway or highway lane.	The capacities have been updated in Table 1.1 of the revised report as requested.
TRAF-006a	Deficiency Letter Matrix	Traffic and Transportation	Current daily average and peak traffic counts;	No	Please collect new average daily vehicle traffic counts. Traffic data from Caltrans Traffic Census Program, representing 2017 conditions, is documented. The data provided through the Caltrans Traffic Census Program are traffic volume estimates and not actual counts. In addition, the data is pre COVID-19 Pandemic and does not capture post pandemic changes in travel behavior. 24-hour vehicle classification traffic counts should be collected (in 15-minute increments) for a minimum three days (Tuesday, Wednesday, Thursday), during a representative time of year.	Average Daily Vehicle Traffic Counts have been collected near the projected access locations and are presented in Table 1.1 of the report. Raw traffic data is included in Appendix B of the report.
TRAF-007	Deficiency Letter Matrix	Traffic and Transportation	Current and projected levels of service before project development, during construction, and during project operation;	No	Please update roadway capacity and intersection operations analysis. As outlined above, the roadway capacity analysis was conducted using base capacity values that do not account for the impacts of heavy vehicles, grades or other sources of friction that will lower the capacity of a freeway or highway lane. In addition, the analysis needs to be updated based on new traffic count data.	The analyses have been revised as requested. Results are presented in Table 1.1 and Appendix D of the Updated TIA.
TRAF-008	Deficiency Letter Matrix	Traffic and Transportation	Weight and load limitations;	No	Please expand the description of regional and local roadways affected and/or serving the proposed project. Identify weight and load limitations on study roadways.	The requested information is included in Table 1.2 of the revised report.
TRAF-009	Deficiency Letter Matrix	Traffic and Transportation	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	No	Please collect new average daily vehicle traffic counts. The heavy vehicle percentages from Caltrans Traffic Census Program on SR 299 are provided. The data is pre COVID-19 Pandemic and does not capture post pandemic changes in travel behavior. 24-hour vehicle classification traffic counts should be collected (in 15-minute increments) for a minimum three days (Tuesday, Wednesday, Thursday), during a representative time of year when construction is anticipated.	Average Daily Vehicle Traffic Counts have been collected near the projected access locations and are presented in Table 1.1 of the report. Raw traffic data is included in Appendix B of the report.
TRAF-010	Deficiency Letter Matrix	Traffic and Transportation	An identification of any road features affecting public safety.	No	Please collect collision records on study roadways. Collect and map the most recent 3- year collision data available for the study corridors to identify locations where road features or characteristics may be affecting public safety. Expand impact discussion Impact 3.14-3 to incorporate relevant findings of collision analysis.	The requested information is included in Table 1.2 of the revised report.

Data Request Identifier	Request Source	Topic	Information	Adequate	Information Required To Make AFC Conform With Regulations	Applicant Response
TRAF-006b	Deficiency Letter Matrix	Traffic and Transportation	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified in $(g)(5)(C)$. Also include anticipated project specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in $(g)(5)(C)$.	No	Please see above.	Please refer to Table 1.1 and Section 8.0 of the Updated TIA.
	Deficiency Letter Matrix	Traffic and Transportation	Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed.	No	The Law, Ordinance, Regulation, or Standard Consistency Matrix (TN 248290) doees not identify the specific Shasta County Code ordinances or standards that are applicable during constrution and operation of the proposed facility.	See Section 8.1 of the Updated TIA; Please also see LORS Matrix submitted as TN# 249636.
	Deficiency Letter Matrix	Traffic and Transportation	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.	No	Please provide agency contact information. The DEIR list of federal, state, and local agencies consulted does not include the contact's phone number, address, email address, or the subject matter relevant to the contact. The list does not indicate who should sere as the contact person for Commission staff.	N/A. Applicant to provide requested information outside of traffic study. Please see table with local agency contact information submitted as TN# 249533.
TRAF-004	Follow-up Questions	Traffic and Transportation	A description of the methodology applied and the software used to complete the capacity analysis is missing.	No	Not provided by CEC with follow-up questions	Roadway capacity analysis was performed with HCS Software for the pre-construction, construction, and post-construction scenarios. Traffic data collected by Caltrans in 2020 and roadway characteristics observed from desktop review (i.e., speed limit, number and width of lanes, etc.) were used to calculate roadway capacity. Project access Level of Service (LOS) methodology is described in Section 8.2.
TRAF-010	Follow-up Questions	Traffic and Transportation	An analysis of the collision records is missing. Table 1.2 of the revised report (TN# 250644) includes total number of collisions. However, no information is provided relative to how the collision rates compare to statewide averages for similar facilities or how the characteristics of the roadway that may be affecting public safety or contributing to the reported collisions?	No	Not provided by CEC with follow-up questions	Noted. To facilitate statewide crash averages for similar facilities in California, crash comparisons were initially performed for the most recent year, 2020. However, due to the Covid-19 pandemic, Westwood expanded crash data analysis to include the years 2018, 2019, and 2020 to ensure any pandemic outliers did not skew data analysis. To include the expanded data set, Table 1.2 was updated and Table 1.3 was added to reflect additional crash analysis within boundaries of the project site commuter and delivery routes, in conjunction with statewide data (see Appendix C). The crash rates along the roadway segments of SR 299 are less than the statewide averages for similar 4-lane divided and 2/3-lane facilities.
TRAF-001	Follow-up Questions	Traffic and Transportation	Thank you for provinding the inputs for the VMT calculation in Exhibit 4. Please confirm the total VMT calculation, which shows 4,766,749. It appears that the Total Aggregate for Compaction Deliveries may have been double counted. However, Exhibit 4 of the updated Traffic Impact Analysis (TN# 250985) does not quantify the potential reduction in VMT through implementation of carpooling. Also, the calculation of VMT per capita in the 4th paragraph Section 8.1 (Page 16) of the revised report (TN# 250985) should identify the assumed vehicle occupancy. It appears to be 2 employees per vehicle. Please confrom and update the analysis accordingly.	No	Not provided by CEC with follow-up questions	Thank you for the comment. The VMT for the Total Aggregate for Compaction Deliveries has been double counted. The revised VMT is 4,283,329. A revised Exhibit 4 is included in the attached revised traffic impact analysis. The VMT assumes a vehicle occupancy of 2 full time employees per truck. The 36,966 two-way truck trips that were calculated from the developer's full time labor calculations were derived with this assumption. Please refer to the revised Exhibit 4. The calculation of post-construction VMT per capita in Section 8.1 has been updated to identify the originally assumed vehicle occupancy of 2 full time employees per truck. A description of the methodology applied and the software used to
TRAF-004	Follow-up Questions	Traffic and Transportation	Please describe in the text of Section 8.2 of the updated Traffic Impact Analysis (TN# 250985) which Highway Capacity Manual (HCM) methodologies were applied using the Highway Capacity Software (HSC).	No	Not provided by CEC with follow-up questions	complete the roadway capacity analysis was added to Section 3.0 of the report. The LOS analyses for the project accesses in Synchro/SimTraffic are based on the Two-Way Stop Control (TWSC) methodology from the 6th edition of the Highway Capacity Manual (HCM). This description has been added in Section 8.2 of the report.
TRAF-010	Follow-up Questions	Traffic and Transportation	The comparison of the collision rates to statewide averages was responsive to the request. Please review the statewide averages that are being used for the comparison to make sure the correct rates are be appliced, relative to the area type that the roadways are located (i.e., Urban vs. Rural). In addition, the conclusion of the analysis presented in Applicant Response No.2 should be incorporated into the text to discuss the conclusions of the analysis presented in Table 1.3 of the updated Traffic Impact Analysis (TN# 250985). The characteristics of the collisions (i.e., primary collision factors) and any characteristics of the roadways that may be affecting public safety was not addressed.	No	Not provided by CEC with follow-up questions	Based on roadway geometry and proximity to urban centers, the following segments are characterized as "Urban": I-5 to Hawley Road, Hawley Road to Old Oregon Trail, Tamarack Road to Elm Street, and Elm Street to Plumas Street. All other segments not specified above are characterized as "Rural". The conclusion of the analysis presented in Applicant Response No. 2 has been incorporated into Section 3.0 of the text. Of the 81 crashes observed along SR-299, of which were 7 fatal crashes, 40% had an "Improper Turning" Primary Crash Factor (PCF). For fatal crashes, the predominant PCF, comprising of 43% of all fatal crashes was due to "Improper Turning". 75% of all crashes occurred under daylight conditions, and 99% of crashes occurred on roads with "No Unusual Conditions". Based on these results, the crashes observed along SR-299 appear to be due to driver behavior instead of roadway characteristics.