

MARCH 2019



**WIM #59/61
I-90,
MP 276.8
DRESBACH,
MN**

**MONTHLY
REPORT**



Your Destination...Our Priority



WIM Site Location

WIM #59 is located on I-90 near Dresbach in Winona county.

System Operation

WIM #59 was operational for the entire month of March 2019. Volume was computed using all monthly data.

System Calibration

WIM #59 was most recently calibrated on 2016-12-20. Table 1 summarizes the front axle weights of class 9s by lane ¹. Table 1 indicates that the class 9 front axle weights were all within +/- 9% of baseline calibration values for all lanes. Figure 1 shows the distribution of gross vehicle weights (GVW) in Class 9 vehicles at this site for the last 12 months of operation ². Figure 2 depicts the average front axle weight as a percent difference from the first full month following calibration.

Summary of Volume Statistics

Total Monthly Volume: 659731 | Passenger Vehicles: 599351 | Heavy Commercial Vehicles: 60380

Monthly Average Daily Traffic (MADT): 21282 | Monthly Heavy Commercial Average Daily Traffic (MHCADT): 1948

See Table 2 for vehicle class breakdown

Passenger Vehicles (PVs) and Heavy Commercial Vehicles (HCVs)

Volume trends. EB vehicles typically reached highest volume levels on Fridays, with lowest volumes reported on Sundays. WB vehicles typically reached highest volume levels on Fridays, with lowest volumes reported on Wednesdays (see Figure 3 and 4).

Passenger Vehicles (PVs)

Volume trends. On an average 24-hour day (see Figure 5), EB PVs generally reached peak volume levels between 03 PM and 05 PM. Similarly, WB PVs peaked in volume between 03 PM and 05 PM

Heavy Commercial Vehicles (HCVs)

Volume trends. On an average 24-hour day, HCVs traveling EB typically reached peak volume levels between 03 PM and 05 PM, while volume going WB peaked between 03 PM and 05 PM. See Figure 6. Out of all HCVs, the two highest traffic volumes were generated by Class 9's and Class 14's.

Overweight HCVs

Volume trends. Of a total of 60380 HCVs, 17822 of them were overweight ³. These overweight HCVs contributed to 3.2% of total monthly volume, and 34% of total monthly HCV volume. EB overweight vehicles typically reached highest numbers on Tuesdays, with lowest volumes reported on Saturdays. WB overweight vehicles tended to reach highest volumes on Tuesdays, with lowest volumes reported on Sundays. See Figure 3 .

The top two overweight violators by class were the class 9 and class 10 vehicles . Overall, overweight vehicles tended to reach peak volume concentrations during typical business hours, with 92.7% of all overweight vehicles traveling EB this month (see Figure 7 & 8). Figure 9 shows the number of vehicles exceeding 88,000 pounds that crossed the WIM over the last 12 months. The highest number of 88,000+ vehicles within the last 12 months occurred in November.

WIMs are currently used as a screening tool for weight enforcement, and it is estimated that the WIM scales can measure gross vehicle weights (GVW) within 90-95% of static weight scale measurements. Due to the possibility of measurement error, vehicles exceeding 10% of their legal weight limits (or 1.1 times their legal weight limits) are considered overweight in this report ⁴.

Using normal load limits ,6070 EB vehicles exceeded 88,000 pounds (5642 vehicles were Class 9's; 185 vehicles were Class 10's). Of vehicles traveling WB,

341 EB vehicles exceeded 88,000 pounds (315 vehicles were Class 9's; 10 vehicles were Class 14's). Refer to Table 3 for the Top 10 highest recorded GVWs from Classes 9 and 10 from March 2019.

Loaded vs. Unloaded HCVs. Figure 10 shows the GVW distributions of Class 9s and 10s in March 2019. Data suggests that there were greater numbers of fully_loaded Class 9's than empty Class 9's traveling EB, while there were more fully_loaded Class 9's than empty traveling WB. Data also suggests that there were more empty Class 10's than fully_loaded traveling in the EB direction. In the WB direction, there were more empty class 10 vehicles.

Freight Totals. A total of 717015 tons of freight was recorded to have crossed the WIM. More freight was shipped EB (91.8%) than WB (8.2%). See Table 4 and Figure 11 for more freight information.

Infrastructure Considerations

Bridge. Bridge No. 85802 and 85801 (Prestressed Beam Span) are approximately .02 miles east of WIM #59. Bridge No. 85849 and 85850 (Continuous Steel Beam Span) are approximately .3 miles west of WIM #59. WIM #59 recorded a total of 659731 vehicles with a combined GVW of 4991981 kips (1 kip = 1,000 pounds = 0.5 tons) in March 2019. See Table 5 and Figures 12-13 for GVW information by vehicle class and lane.

Pavement Design. A total of 88665 equivalent single axle loads (ESALs) passed over the pavement at this site. Approximately 84.4% of all ESALs were recorded EB while 15.6% was observed WB. In particular, 80% of all ESALs were generated by the Class 9's (Class 9's were also responsible for generating 50% of total GVW observed this month). See Table 6 and Figures 14-15 for more information on ESALs (Table 6 also provides flexible ESAL

factors for each vehicle class using a terminal serviceability of 2.5 and a structural number of 5).

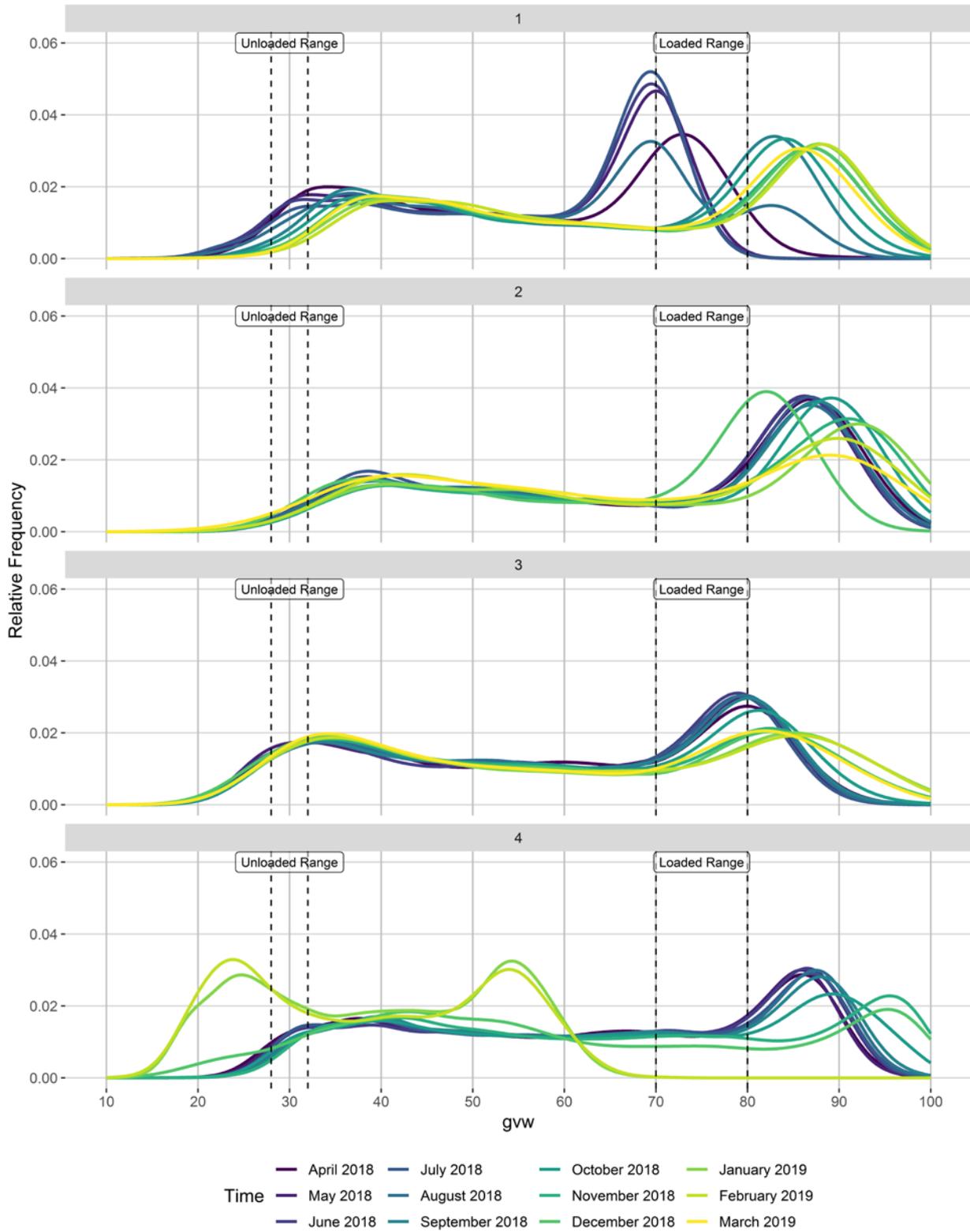
WIM monthly reports can be found at: <http://www.dot.state.mn.us/traffic/data/reports-monthly-wim.html>

MnDOT's vehicle classification scheme and vehicle class groupings for traffic forecasting can be found at: <http://www.dot.state.mn.us/traffic/data/data-products.html#weight>

- ¹ Front axle weights of Class 9s are monitored on a monthly basis to assure performance between calibrations. The current goal of the WIM scale calibration is to have each individual axle weight stay within a range of ±9% of baseline calibration values
- ² Previous WIM research indicates that unloaded Class 9s typically weigh 28-32 kips, while loaded Class 9s generally fall in the 70-80 kip range. More recent data from several WIM sites suggests that the unloaded Class 9 range may have moved a little higher over time (due to increased presence of sleeper cabs, etc.), although these ranges are also thought to be site-specific.
- ³ An HCV is considered overweight during normal load limits in this report if they satisfy any of the following 1) exceed a gross vehicle weight (GVW) of 80,000 pounds, 2) exceed any of the legal weight maximums on any axle configurations (legal maximums are: single axle = 20,000 pounds; tandem axles spaced 8' or less = 34,000 pounds; tridem axles spaced 9' or less = 43,000 pounds; quad axles spaced 13' or less = 51,000 pounds). Monthly reports use this standard regardless of the time of year however, the Winter Load Increase (WLI) allows a 10% across the board increase in axle and gross vehicle weights without a permit on US, state routes, and county roads. An HCV is considered overweight during Winter Load Increase(WLI) if they satisfy any of the following 1) exceed a gross vehicle weight (GVW) of 88,000 pounds, 2) exceed any of the legal weight maximums on any axle configurations (legal maximums are: single axle = 22,000 pounds; tandem axles spaced 8' or less = 37,400 pounds; tridem axles spaced 9' or less = 47,300 pounds; quad axles spaced 13' or less = 56,100 pounds). An overweight HCV is only included once in the overweight volume calculations regardless of how many of the aforementioned conditions are violated. For information on MN weight limit dates and statutes: http://www.mrr.dot.state.mn.us/research/seasonal_load_limits/sllindex.asp
- ⁴ For example, Class 9s and 10s can legally have gross vehicle weights up to 80,000 lbs (with the exception of permitted loads) during normal load limits. To account for measurement error on the WIM scales, those exceeding 10% of the legal GVW maximum (or 1.1 times the legal GVW) should be screened (e.g., 80,000 lbs + 8,000 lbs = 88,000 lbs). Similarly during WLI vehicles weighing 96,800 lbs should be screened.

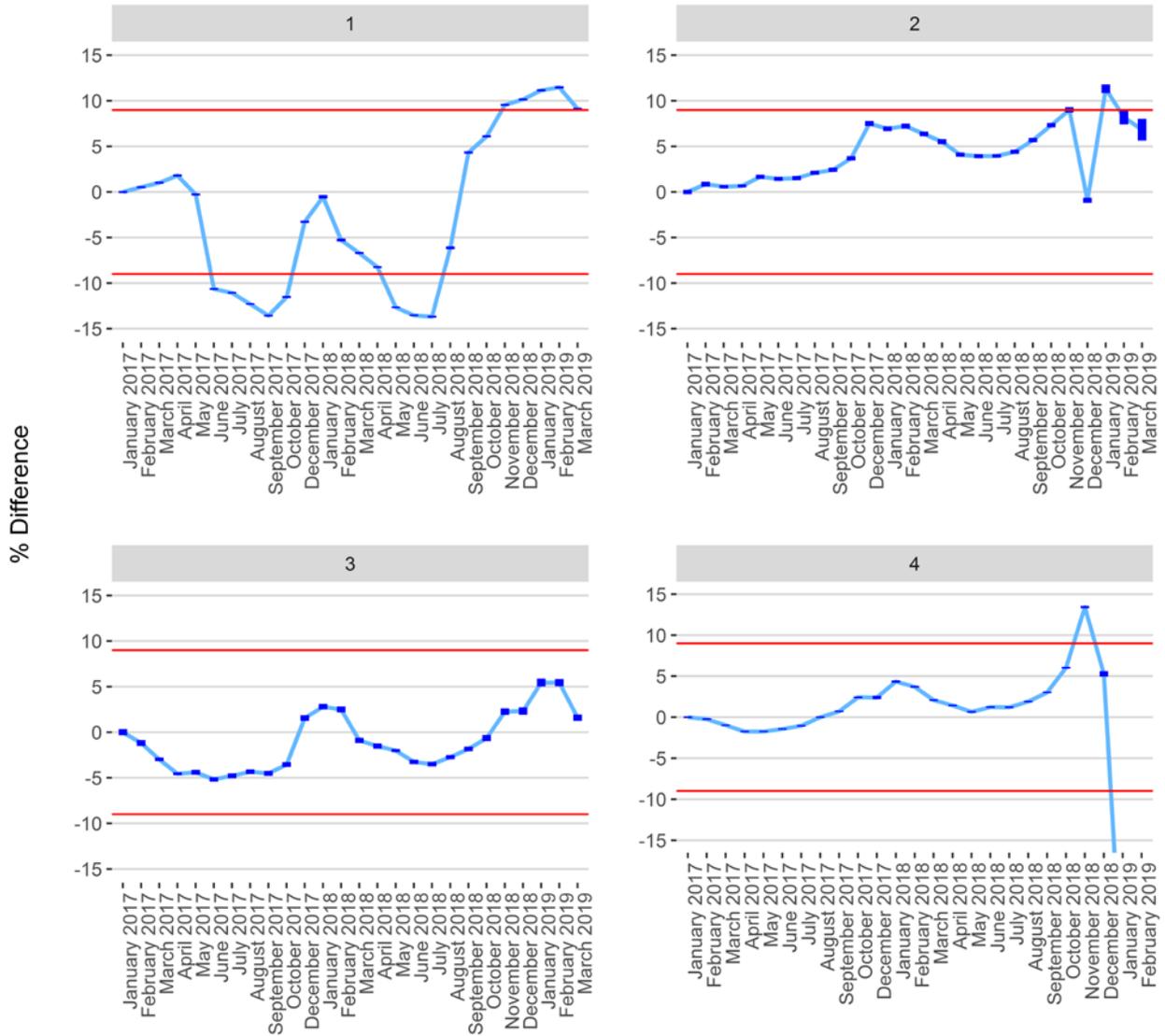
To request this document in an alternative format, please call 651-366-4718 or 1-800-657-3774, or email your request to ADArequest.dot@state.mn.us. Please request at least one week in advance.

Figure 1 - Monthly Class 9 GVW Histogram



Months that have not passed QC parameters are not displayed

Figure 2 - Percent Difference of Front Axle Weight from Last Calibration (+/- 95% CI)



Months that have not passed QC parameters are not displayed

Figure 2 - Average Vehicle Volume vs. Day of the Week

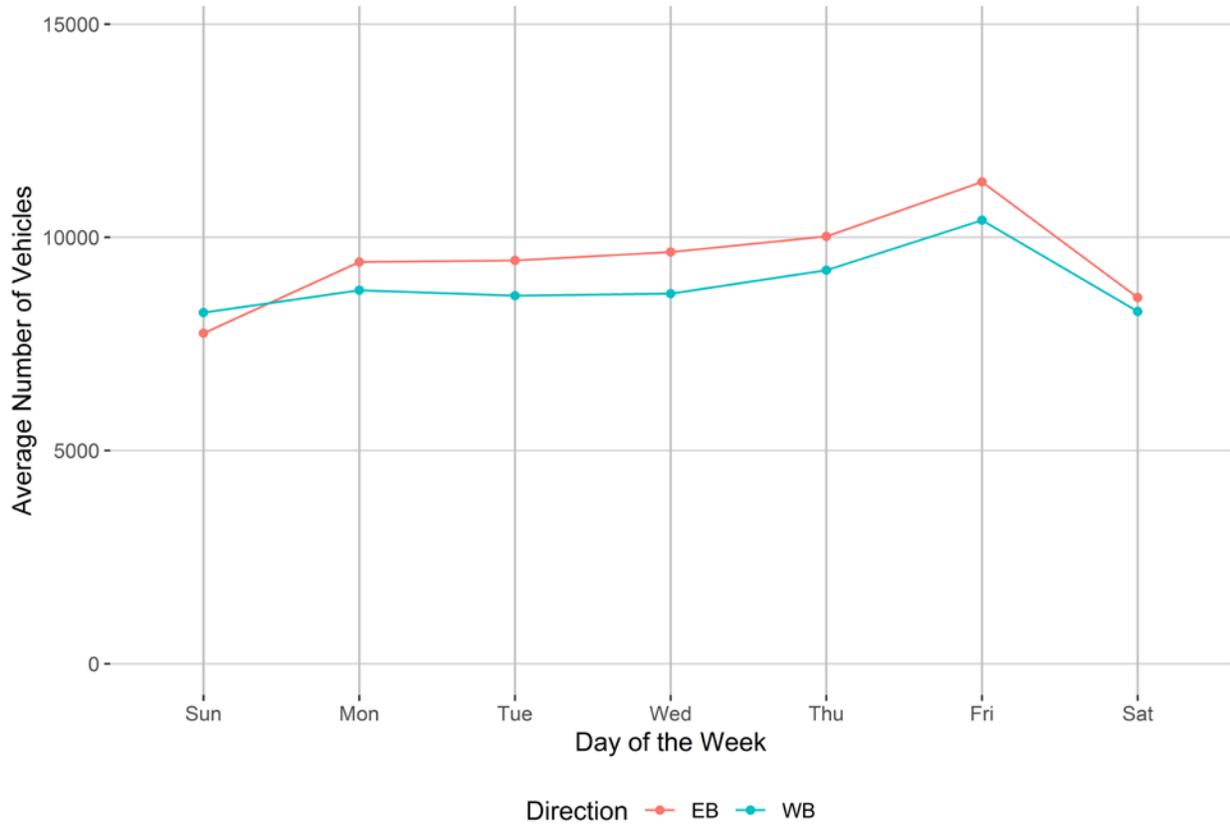


Figure 3 - Average Overweight Vehicle Volume vs. Day of the Week

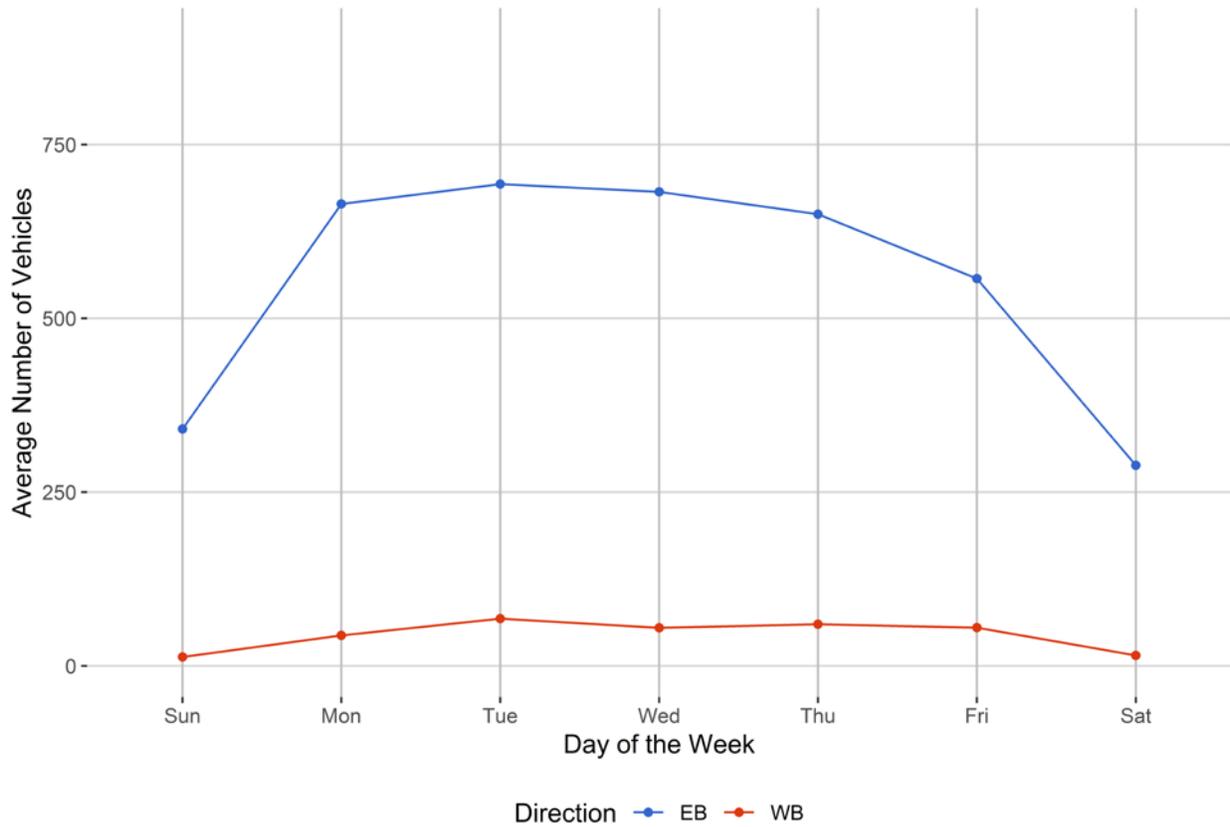


Figure 4 - Passenger Vehicles vs. Hour of the Day

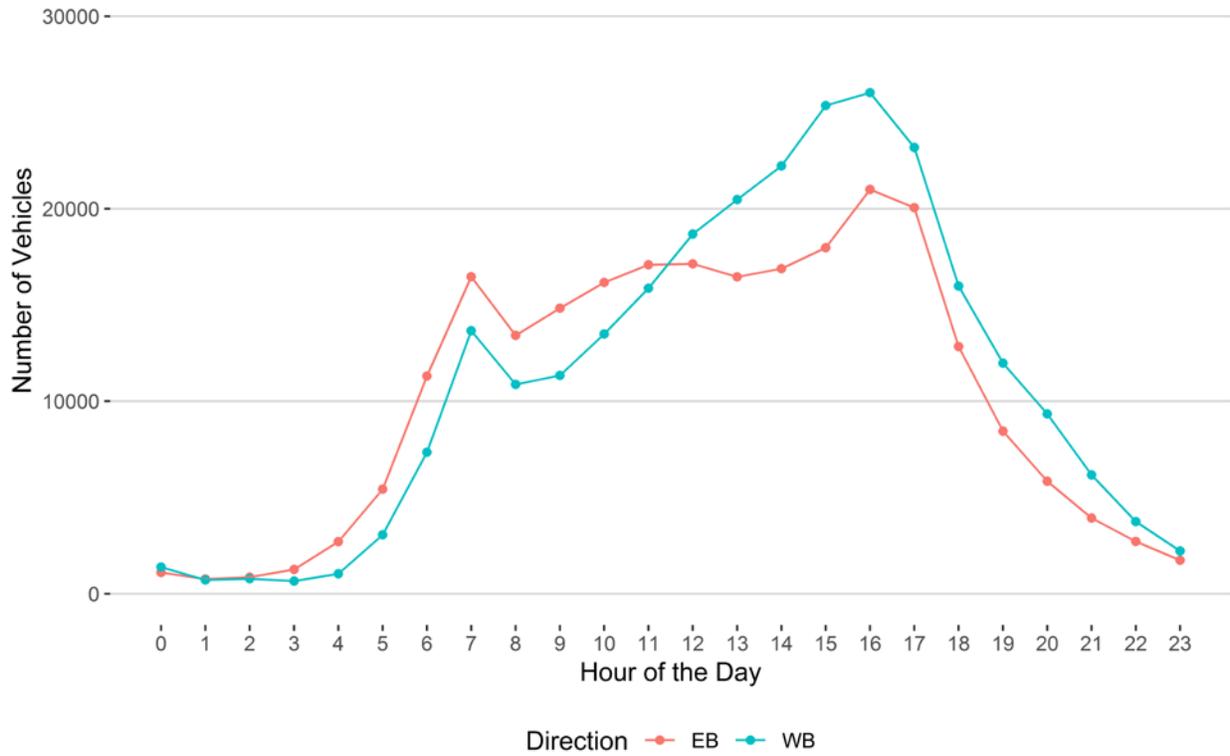


Figure 5 - Heavy Commercial Vehicles vs. Hour of the Day

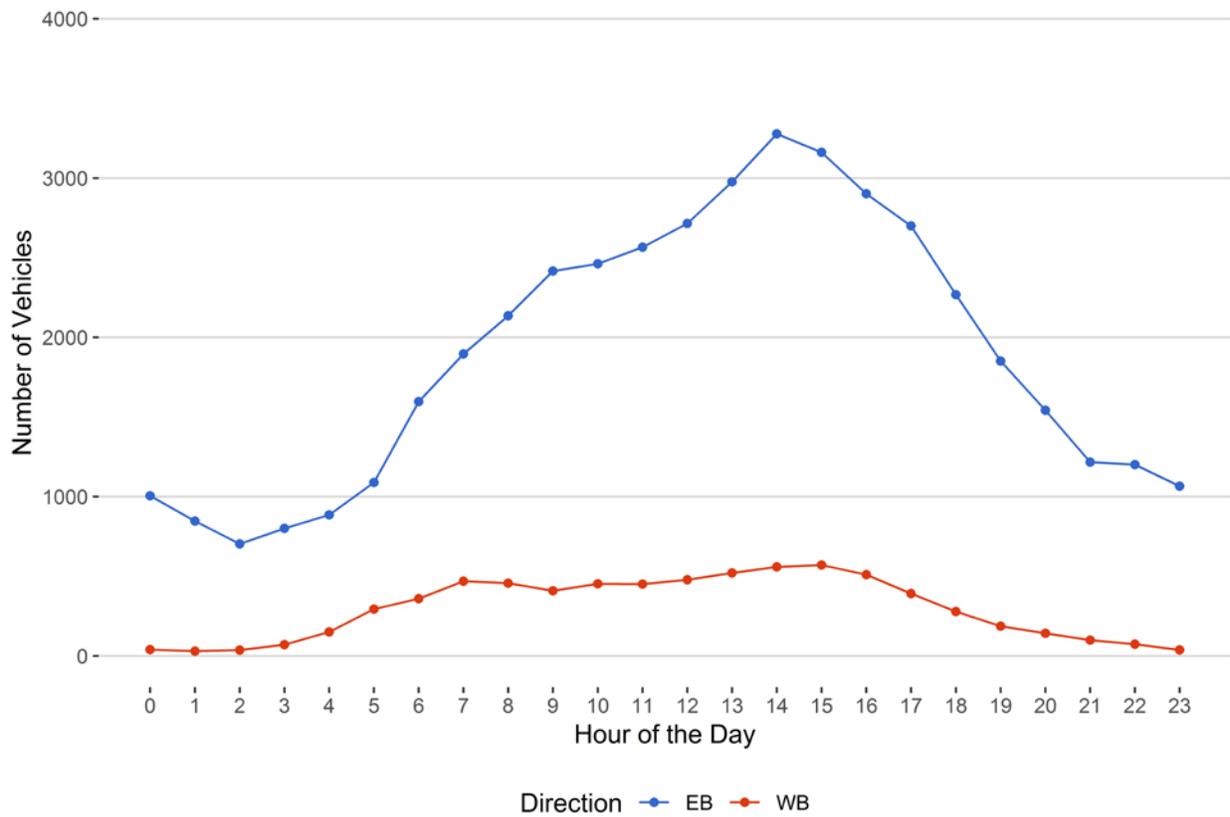


Figure 6 - Overweight Vehicles by Class vs. Hour of the Day

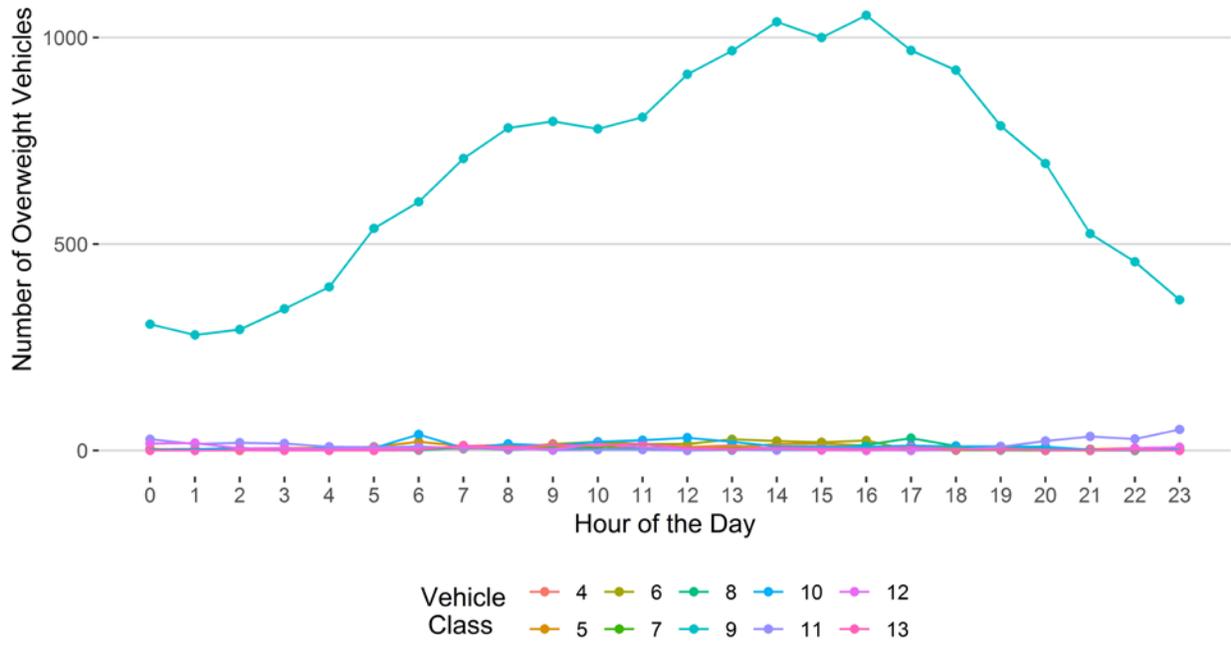


Figure 7 - Overweight Vehicles by Direction
Hour of the Day

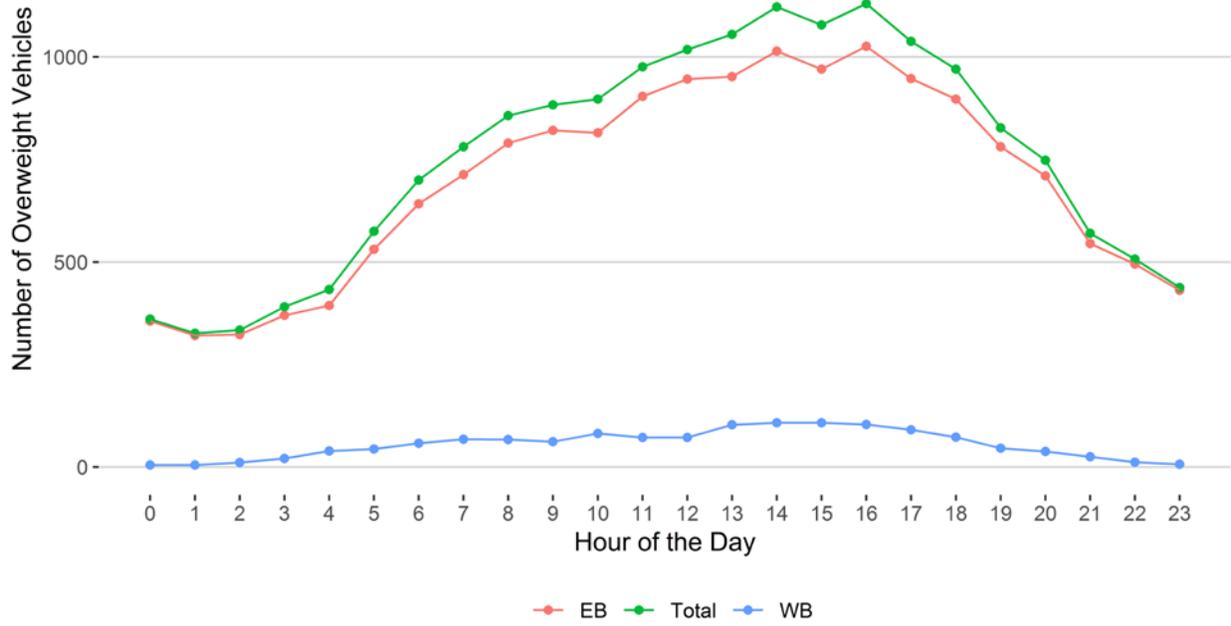
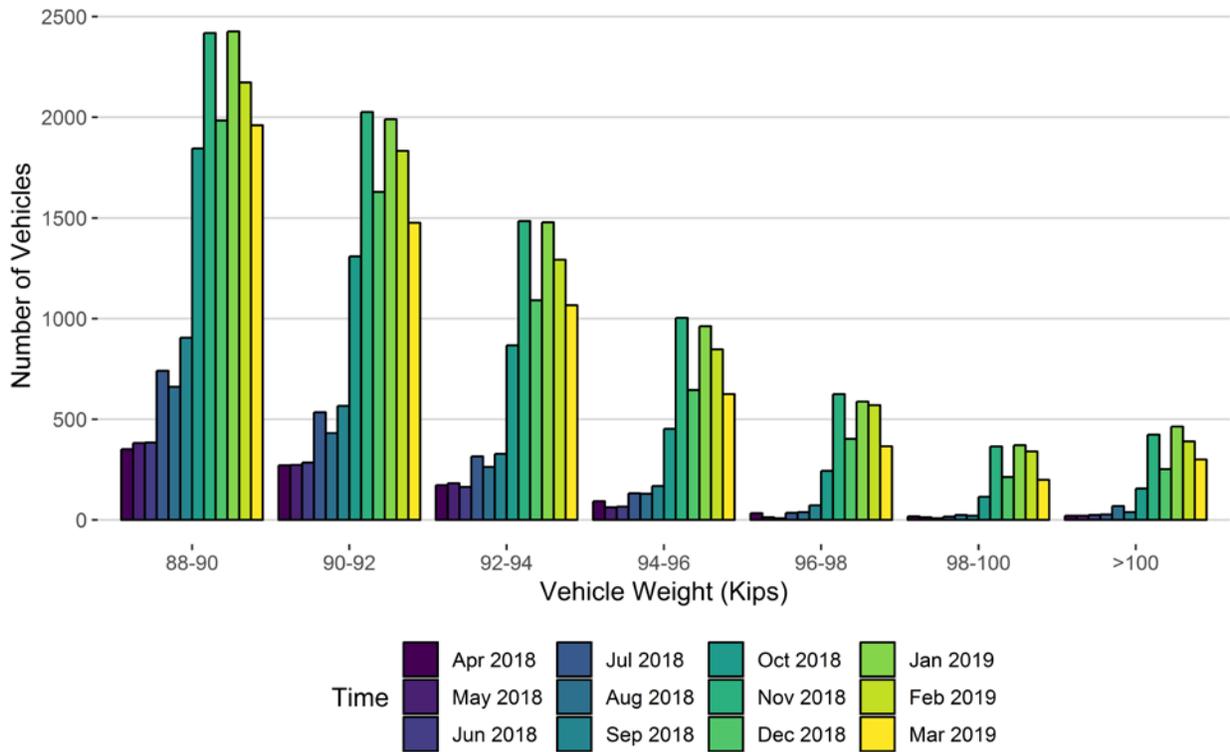
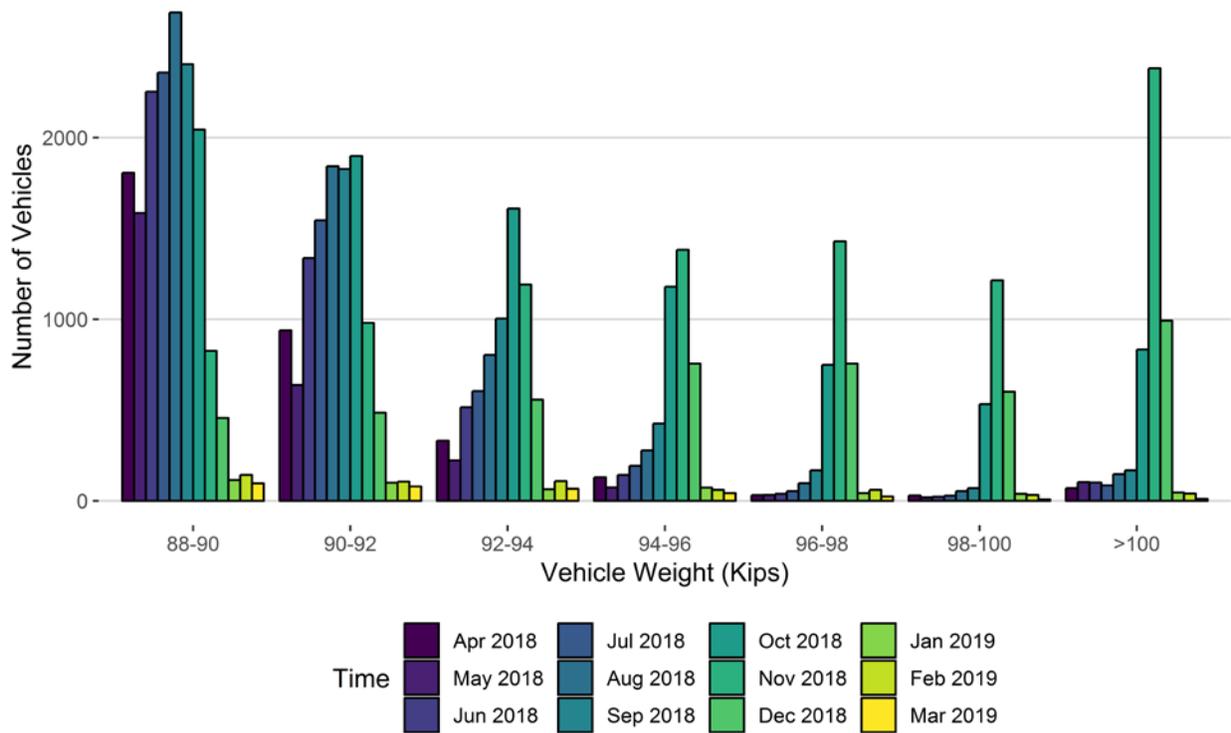


Figure 8 - Histogram of EB Vehicles Over 88,000 Pounds for Current Month



Vehicle Weights (Kips)	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018	Jan 2019	Feb 2019	Mar 2019
88-90	351	382	384	741	661	905	1845	2418	1984	2426	2173	1960
90-92	272	273	285	535	431	566	1309	2026	1629	1990	1833	1476
92-94	173	182	164	316	263	328	867	1484	1091	1478	1292	1066
94-96	93	63	66	132	130	168	452	1004	645	962	847	625
96-98	33	13	9	35	39	73	244	625	403	588	570	366
98-100	18	13	9	16	25	21	115	365	213	371	340	199
>100	21	21	25	27	69	39	156	424	252	464	390	300
Total	961	947	942	1802	1618	2100	4988	8346	6217	8279	7445	5992

Figure 8 - Histogram of WB Vehicles Over 88,000 Pounds for Current Month



Vehicle Weights (Kips)	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018	Jan 2019	Feb 2019	Mar 2019
88-90	1807	1585	2253	2358	2689	2404	2044	826	457	115	143	97
90-92	939	638	1337	1545	1843	1827	1899	980	486	100	106	80
92-94	332	223	516	605	804	1004	1609	1191	558	64	109	67
94-96	130	74	143	193	278	426	1179	1383	756	73	61	43
96-98	32	33	39	54	98	169	749	1429	756	43	61	24
98-100	30	20	23	29	54	70	533	1214	601	39	33	9
>100	70	104	101	86	147	169	834	2382	993	46	40	11
Total	3340	2677	4412	4870	5913	6069	8847	9405	4607	480	553	331

Figure 8 - Class 9's and 10's by Direction vs Gross Vehicle Weight

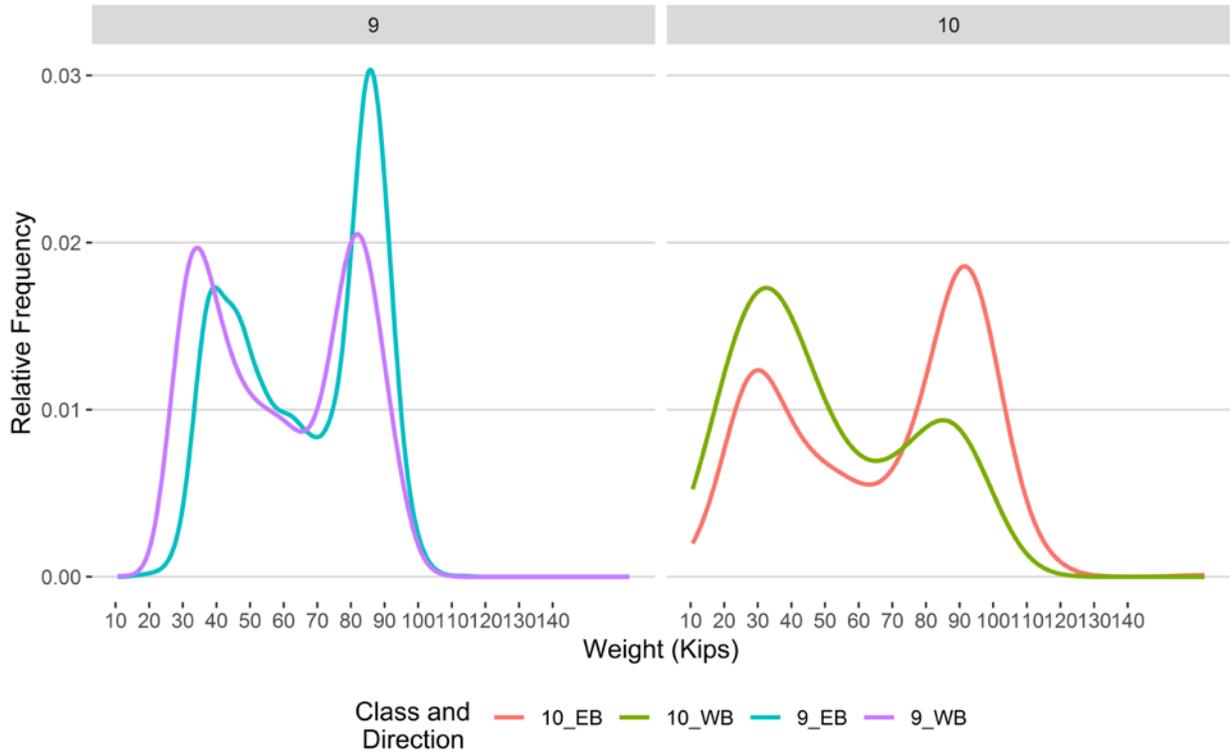


Figure 9 - Freight Percentage by Direction and Class

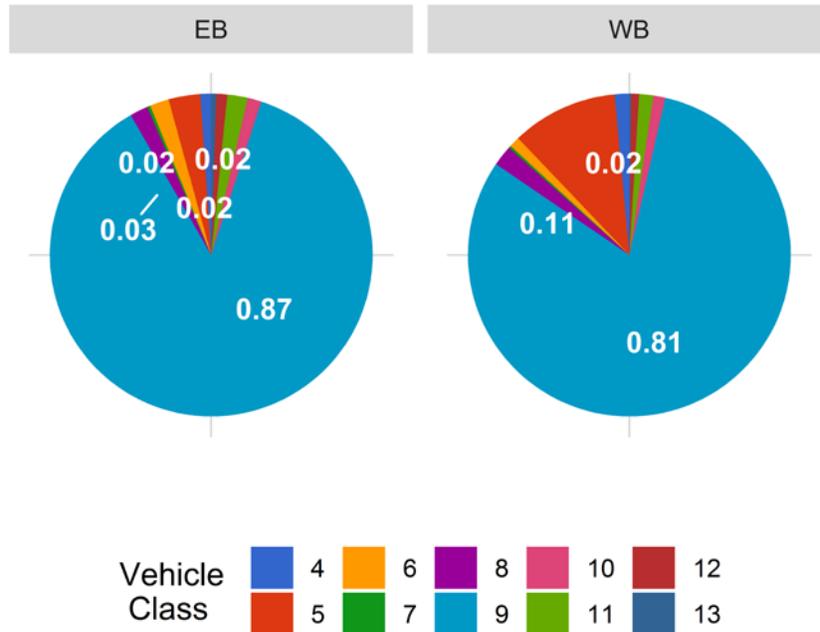


Figure 10 - Total Gross Vehicle Weight Percentage by Class and Lane

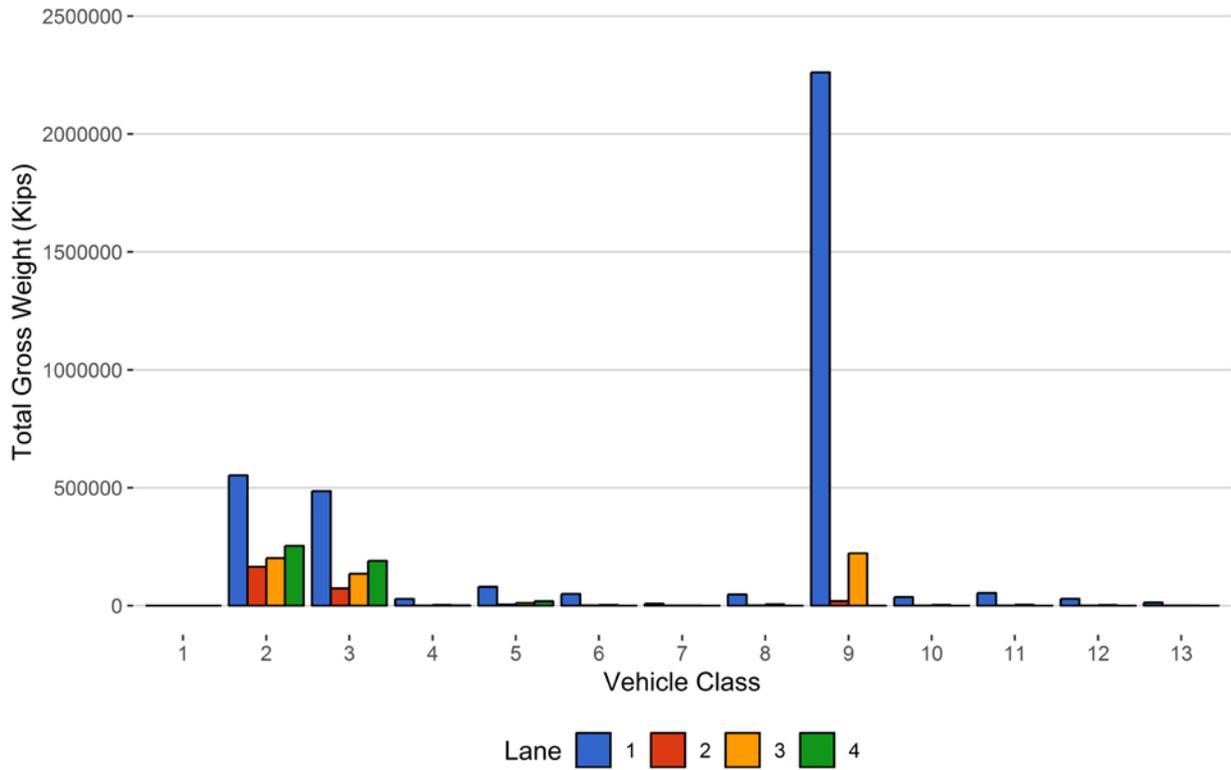


Figure 11 - Total Gross Vehicle Weight t

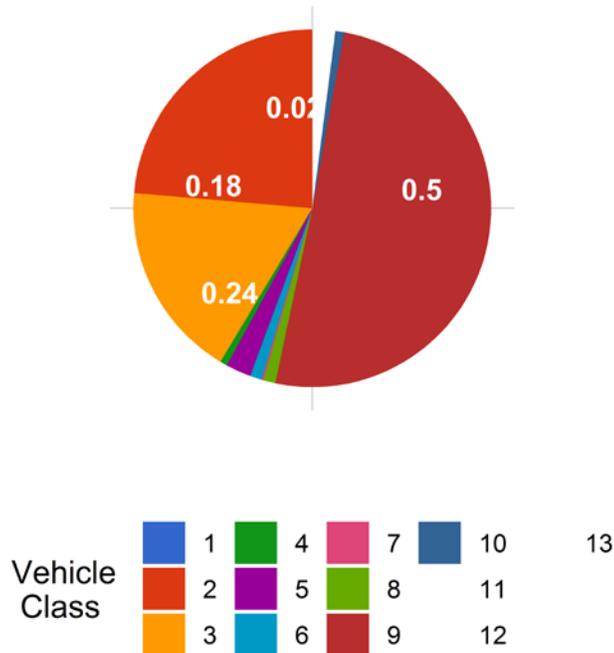


Figure 12 - Total ESALs by Class and Lane

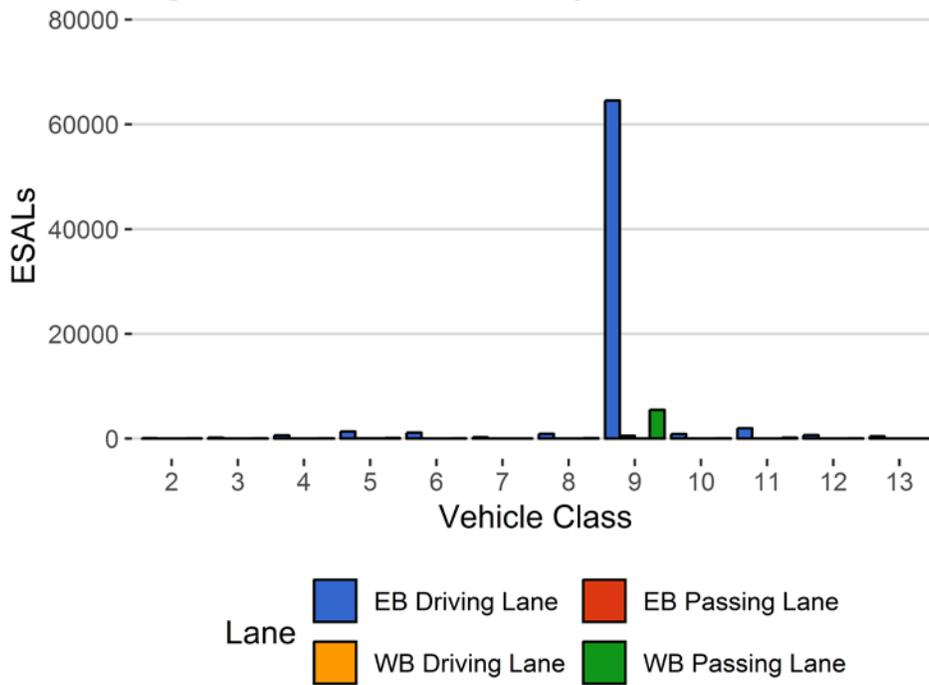


Figure 13 - ESALs by Class

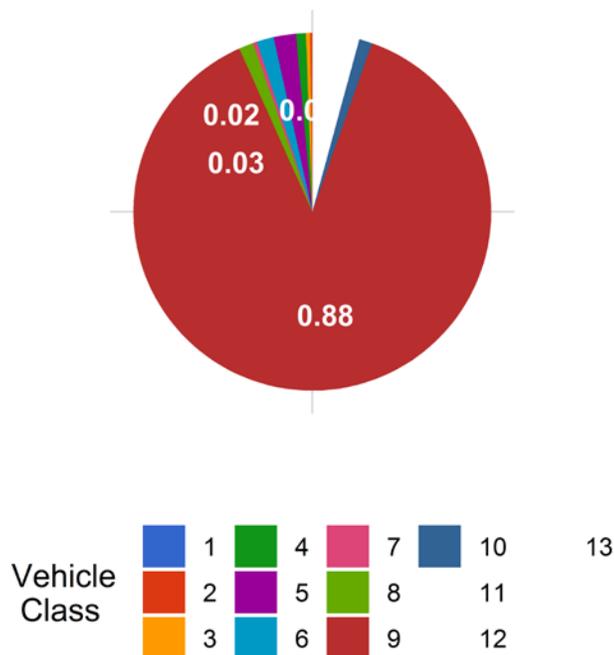


Table 1 Class 9 Front Axle Weight by Lane

<i>Month</i>	<i>Lane 1 (Kips)</i>	<i>Front Axle +/- 9%</i>	<i>Lane 2 (Kips)</i>	<i>Front Axle +/- 9%</i>	<i>Lane 3 (Kips)</i>	<i>Front Axle +/- 9%</i>	<i>Lane 4 (kips)</i>	<i>Front Axle +/- 9%</i>
January 2017	11.32	0.00	12.24	0.00	12.06	0.00	11.96	0.00
February 2017	11.38	0.53	12.34	0.86	11.92	-1.18	11.93	-0.24
March 2017	11.43	1.01	12.31	0.58	11.71	-2.97	11.84	-0.98
April 2017	11.52	1.80	12.32	0.66	11.52	-4.55	11.75	-1.74
May 2017	11.29	-0.29	12.44	1.67	11.53	-4.39	11.75	-1.74
June 2017	10.11	-10.64	12.42	1.43	11.44	-5.18	11.79	-1.43
July 2017	10.07	-11.07	12.43	1.51	11.49	-4.78	11.84	-1.04
August 2017	9.93	-12.30	12.50	2.10	11.54	-4.33	11.96	0.00
September 2017	9.78	-13.58	12.54	2.43	11.52	-4.51	12.04	0.71
October 2017	10.01	-11.53	12.69	3.70	11.64	-3.54	12.25	2.42
December 2017	10.95	-3.27	13.16	7.50	12.25	1.55	12.25	2.40
January 2018	11.26	-0.54	13.09	6.93	12.40	2.80	12.48	4.35
February 2018	10.72	-5.27	13.12	7.22	12.37	2.50	12.40	3.70
March 2018	10.56	-6.70	13.02	6.37	11.96	-0.89	12.21	2.08
April 2018	10.39	-8.25	12.91	5.51	11.88	-1.52	12.13	1.44
May 2018	9.89	-12.66	12.74	4.09	11.82	-2.00	12.04	0.66
June 2018	9.79	-13.53	12.72	3.92	11.67	-3.25	12.11	1.23
July 2018	9.77	-13.68	12.72	3.95	11.64	-3.50	12.10	1.21
August 2018	10.63	-6.13	12.78	4.40	11.73	-2.73	12.19	1.91
September 2018	11.81	4.33	12.94	5.68	11.84	-1.84	12.32	3.03
October 2018	12.01	6.10	13.14	7.33	11.99	-0.64	12.68	6.03
November 2018	12.40	9.55	13.34	9.00	12.34	2.26	13.57	13.43
December 2018	12.47	10.15	12.13	-0.92	12.34	2.33	12.59	5.28
January 2019	12.58	11.15	13.63	11.32	12.72	5.44	7.96	-33.49
February 2019	12.62	11.48	13.24	8.20	12.72	5.44	7.91	-33.84

March 2019	12.35	9.13	13.08	6.83	12.26	1.60	NA	NA
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Table 2 Vehicle Classification Data

<i>Vehicle Class</i>	<i>Monthly Average Daily Volume</i>	<i>Monthly Total Volume</i>	<i>Monthly Total Volume Percentage</i>	<i>Monthly Total Overweight Vehicles</i>	<i>Monthly Total Overweight Percentage</i>
1	2	47	0	0	0
2	12838	397988	60.3	0	0
3	6494	201316	30.5	0	0
4	40	1253	0.2	120	0.7
5	302	9377	1.4	206	1.2
6	60	1863	0.3	200	1.1
7	5	167	0	72	0.4
8	52	1626	0.2	110	0.6
9	1412	43758	6.6	16318	91.6
10	23	700	0.1	276	1.5
11	32	978	0.1	276	1.5
12	16	503	0.1	135	0.8
13	5	155	0	109	0.6
TOTAL	21282	659731	100	17822	100

Table 3 Top 10 Gross Vehicle Weight, Class 9 and 10

<i>Date</i>	<i>Day of Week</i>	<i>Time</i>	<i>Vehicle Class</i>	<i>Direction</i>	<i>Lane</i>	<i>GVW (lbs)</i>
2019-03-16	Saturday	13:33:43	10	EB	1	162.85
2019-03-15	Friday	23:00:07	9	EB	1	124.42
2019-03-20	Wednesday	20:11:55	10	EB	1	119.61
2019-03-04	Monday	08:37:31	9	EB	2	117.94
2019-03-16	Saturday	13:33:46	10	EB	1	116.8
2019-03-09	Saturday	05:42:47	9	EB	2	115.21
2019-03-23	Saturday	09:02:35	10	EB	2	114.93
2019-03-10	Sunday	22:48:46	9	EB	1	114.82
2019-03-20	Wednesday	19:06:42	9	EB	1	114.26
2019-03-12	Tuesday	08:00:31	9	EB	1	114.03

Table 4 Freight Summary

<i>Vehicle Class</i>	<i>Direction</i>	<i>Weight of Empty Vehicle (Kips)</i>	<i>Total Number of Vehicles</i>	<i>Number of Empty Vehicles</i>	<i>Percentage of Empty Vehicles</i>	<i>Total Weight of Vehicles with Freight (Kips)</i>	<i>Total Weight of Empty Vehicles (Kips)</i>	<i>Total Weight of Freight (Tons)</i>
4	EB	15	894	58	6.5	27528	784	7494
5	EB	8	5395	292	5.4	81654	2101	20415
6	EB	19	1515	115	7.6	48355	2012	10878
7	EB	11.5	135	0	0	8573	0	3510
8	EB	31	1248	295	23.6	40678	6953	5568
9	EB	33	34216	925	2.7	2252788	27669	577092
10	EB	33.5	543	120	22.1	33096	3165	9463
11	EB	36.5	796	8	1	53618	241	12428
12	EB	36.5	405	2	0.5	28713	59	7002
13	EB	31.5	129	0	0	13135	0	4536
TOTAL	****	****	45276	1815	****	2588136	****	658384
<i>Vehicle Class</i>	<i>Direction</i>	<i>Weight of Empty Vehicle (Kips)</i>	<i>Total Number of Vehicles</i>	<i>Number of Empty Vehicles</i>	<i>Percentage of Empty Vehicles</i>	<i>Total Weight of Vehicles with Freight (Kips)</i>	<i>Total Weight of Empty Vehicles (Kips)</i>	<i>Total Weight of Freight (Tons)</i>
4	WB	15	192	92	47.9	3036	959	768
5	WB	8	2734	649	23.7	24501	4637	3911
6	WB	19	100	13	13	2705	232	526
7	WB	11.5	10	0	0	648	0	266
8	WB	31	162	62	38.3	4133	1489	517
9	WB	33	3719	516	13.9	206337	15084	50319
10	WB	33.5	64	21	32.8	2718	530	639
11	WB	36.5	52	0	0	3905	0	1003
12	WB	36.5	31	0	0	2187	0	528
13	WB	31.5	5	0	0	466	0	154
TOTAL	****	****	7069	1353	****	250637	****	58631
GRAND TOTAL	****	****	52345	3168	239	2838773	65917	717015

Table 5 Gross Vehicle Weight by Class and Lane

<i>Vehicle Class</i>	<i>EB Driving Lane</i>	<i>EB Passing Lane</i>	<i>WB Passing Lane</i>	<i>WB Driving Lane</i>	<i>Total</i>	<i>Percentage</i>
1	24	4	3	8	40	0
2	552477	164589	201406	253535	1172007	23.6
3	485093	72624	134770	189329	881817	17.8
4	27734	579	3101	894	32307	0.7
5	79273	4482	11126	18013	112894	2.3
6	49246	1121	2937	0	53304	1.1
7	8510	63	648	0	9221	0.2
8	46900	731	5622	0	53254	1.1
9	2261860	18597	221422	0	2501878	50.5
10	36102	159	3248	0	39509	0.8
11	53399	460	3905	0	57764	1.2
12	28392	380	2187	0	30959	0.6
13	12964	171	466	0	13601	0.3
TOTAL	3641974	263958	590842	461779	4958553	100
GVW/LANE	73.45	5.32	11.92	9.31	100	0

Table 6 ESALs by Class and Lane and Flexible ESAL Factors

<i>Vehicle Class</i>	<i>EB Driving Lane</i>	<i>EB Passing Lane</i>	<i>WB Passing Lane</i>	<i>WB Driving Lane</i>	<i>Total</i>	<i>Percentage</i>	<i>Flexible ESAL Factor</i>
1	0	0	0	0	0	0	0.0238
2	78	31	38	5	152	0.19	9e-04
3	201	31	64	11	307	0.38	0.0035
4	638	13	66	2	719	0.9	1.32
5	1363	70	142	36	1612	2.01	0.4
6	1161	28	50	0	1240	1.54	1.53
7	283	1	17	0	300	0.37	4
8	941	14	96	0	1050	1.31	1.49
9	64548	552	5506	0	70605	87.88	3.72
10	896	3	55	0	954	1.19	3.11
11	1988	12	194	0	2194	2.73	5.12
12	681	8	50	0	740	0.92	3.33
13	452	4	10	0	466	0.58	6.43
TOTAL	73232	765	6287	54	80338	100	30
ESALS/LANE	91.2	1	7.8	0.1	100	-	-

Table 7 Site Summary: Volume and Vehicle Class

<i>Month</i>	<i>Total Volume</i>	<i>Monthly ADT</i>	<i>Monthly HCAD T</i>	<i>Passenger Vehicles</i>	<i>Passenger Vehicles %</i>	<i>Heavy Commercial Vehicles</i>	<i>Heavy Commercial Vehicles %</i>	<i>Heavy Commercial Vehicles in Driving Lane %</i>	<i>Heavy Commercial Vehicles in Passing Lane %</i>
Apr 2018	637163	21239	3266	539170	84.6	97993.1	15.4	89.6	10.4
May 2018	783270	25267	3420	677254	86.5	106015.6	13.5	78.4	21.6
Jun 2018	800330	26678	3577	693025	86.6	107305.3	13.4	86.5	13.5
Jul 2018	821395	26497	3473	713718	86.9	107677.3	13.1	81.1	18.9
Aug 2018	789021	25452	3486	680966	86.3	108054.7	13.7	86.1	13.9
Sep 2018	637170	21239	3006	546979	85.8	90190.7	14.2	85	15
Oct 2018	747257	24105	3949	624847	83.6	122409.5	16.4	89.9	10.1
Nov 2018	686604	22887	3473	582417	84.8	104186.7	15.2	87.8	12.2
Dec 2018	638349	20592	2580	558362	87.5	79987.1	12.5	88.3	11.7
Jan 2019	559580	18051	2561	480175	85.8	79405.3	14.2	90.8	9.2
Feb 2019	491557	17556	2257	428359	87.1	63197.7	12.9	88.6	11.4
Mar 2019	659731	21282	1948	599351	90.8	60379.6	9.2	89	11
TOTAL	8251427	-	-	7124623	-	1126803	-	-	-
AVERAGE	687619	22570	3083	593719	86	93900	14	87	13

ESALS

<i>Month</i>	<i>ESALS EB Passing Lane</i>	<i>ESALS EB Driving Lane</i>	<i>ESALS WB Driving Lane</i>	<i>ESALS WB Passing Lane</i>	<i>Total ESALS</i>	<i>Driving Lane ESALS %</i>	<i>Passing Lane ESALS %</i>	<i>Pavement Life Decrease Months</i>
Apr 2018	33699	9080	5070	64198	112047	87	13	21.8
May 2018	29208	11691	15636	54301	110836	75	25	19.8
Jun 2018	26617	11629	6817	75040	120104	85	15	25.1
Jul 2018	22121	21567	6194	75499	125381	78	22	27.2
Aug 2018	32525	12583	7036	82490	134635	85	15	31.5
Sep 2018	30430	12029	6313	76534	125306	85	15	37.1
Oct 2018	66018	12731	4606	95216	178570	90	10	59.2
Nov 2018	78070	12254	6801	101387	198511	90	10	94.3
Dec 2018	68646	5893	5120	98480	178140	94	6	91.6
Jan 2019	77135	7565	5894	47024	137618	90	10	52.1
Feb 2019	71402	1382	7023	30065	109872	92	8	53.5
Mar 2019	74055	794	6312	7503	88665	92	8	40.3
TOTAL	609926	119199	82823	807737	1619684	-	-	-
AVERAGE	50827	9933	6902	67311	134974	87	13	46

Gross Vehicle Weight

<i>Month</i>	<i>GVW EB Passing Lane</i>	<i>GVW EB Driving Lane</i>	<i>GVW WB Passing Lane</i>	<i>GVW WB Driving Lane</i>	<i>Total GVW Kips</i>
Apr 2018	3487847	362792	461944	1183423	5496006
May 2018	3175748	237878	499984	581432	4495042
Jun 2018	3660437	264992	592313	474238	4991981
Jul 2018	2785677	692032	555620	3520002	7553332
Aug 2018	2870338	936643	1392451	3125714	8325147
Sep 2018	2735684	971481	814055	4101668	8622887
Oct 2018	2329986	1486733	800733	4211161	8828613
Nov 2018	2592130	1058321	848141	4398049	8896640
Dec 2018	1826437	941145	710711	4047287	7525580
Jan 2019	3500799	936082	485884	4182310	9105075
Feb 2019	3744102	880532	665172	3400616	8690423
Mar 2019	3431509	552652	524063	2028402	6536625
TOTAL	36140693	9321282	8351073	35254302	89067351
AVERAGE	3011724	776774	695923	2937859	7422279

Overweight Vehicles

<i>Month</i>	<i>Total Number of Overweight Vehicles</i>	<i>Overweight / Total Volume</i>	<i>Overweight / Heavy Commercial Volume</i>	<i>Number Over 88,000 lbs</i>	<i>Number Over 98,000 lbs</i>
Apr 2018	19693	3.2	20.4	4310	139
May 2018	17911	2.4	17.4	3625	158
Jun 2018	20657	2.7	19.7	5370	158
Jul 2018	22551	2.8	21.5	6694	165
Aug 2018	26070	3.4	24.6	7553	306
Sep 2018	26866	4.4	29.9	8207	307
Oct 2018	36648	5.5	31.3	13914	1656
Nov 2018	35174	5.4	34.2	17960	4432
Dec 2018	24123	4.2	30.9	10995	2121
Jan 2019	18969	3.9	25.5	8920	970
Feb 2019	17198	4.3	30	8122	836
Mar 2019	18015	3.2	32.1	6411	530
TOTAL	283875	-	-	102081	11778
AVERAGE	23656.2	3.8	26.5	8506.8	981.5

Freight

<i>Month</i>	<i>EB Freight Tons</i>	<i>WB Freight Tons</i>	<i>Total Freight</i>	<i>EB Freight %</i>	<i>WB Freight %</i>
Apr 2018	492972	651293	1144265	43.1	56.9
May 2018	502366	672478	1174845	42.8	57.2
Jun 2018	469192	765620	1234812	38	62
Jul 2018	495457	760718	1256175	39.4	60.6
Aug 2018	488240	816283	1304522	37.4	62.6
Sep 2018	402230	751548	1153778	34.9	65.1
Oct 2018	724838	801812	1526649	47.5	52.5
Nov 2018	790215	650035	1440250	54.9	45.1
Dec 2018	652538	332588	985127	66.2	33.8
Jan 2019	682552	136589	819140	83.3	16.7
Feb 2019	607655	89278	696932	87.2	12.8
Mar 2019	658384	58631	717015	91.8	8.2
TOTAL	6966638	6486873	13453512	-	-
AVERAGE	580553.2	540572.8	1121126	55.5	44.5