

AUGUST 2018



**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 August 2018. 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: 789021 | Passenger Vehicles: 680966 | Heavy Commercial Vehicles: 108055

Monthly Average Daily Traffic (MADT): 25452 | Monthly Heavy Commercial Average Daily Traffic (MHCADT): 3486

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 Tuesdays. WB vehicles typically reached highest volume levels on Fridays, with lowest volumes reported on Tuesdays (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 5's.

Overweight HCVs

Volume trends. Of a total of 108055 HCVs, 25874 of them were overweight³. These overweight HCVs contributed to 3.4% of total monthly volume, and 24.6% of total monthly HCV volume. EB overweight vehicles typically reached highest numbers on Thursdays, with lowest volumes reported on Saturdays. WB overweight vehicles tended to reach highest volumes on Wednesdays, with lowest volumes reported on Sundays. See Figure 3 .

The top two overweight violators by class were the class 9 and class 11 vehicles . Overall, overweight vehicles tended to reach peak volume concentrations during typical business hours, with 72% of all overweight vehicles traveling WB 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 August.

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 report⁴.

Using normal load limits ,1622 EB vehicles exceeded 88,000 pounds (1448 vehicles were Class 9's; 76 vehicles were Class 10's). Of vehicles traveling WB,

5931 EB vehicles exceeded 88,000 pounds (5619 vehicles were Class 9's; 157 vehicles were Class 10's). Refer to Table 3 for the Top 10 highest recorded GVWs from Classes 9 and 10 from August 2018.

Loaded vs. Unloaded HCVs. Figure 10 shows the GVW distributions of Class 9s and 10s in August 2018. 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 fully_loaded Class 10's than empty traveling in the EB direction. In the WB direction, there were more empty class 10 vehicles.

Freight Totals. A total of 1304522 tons of freight was recorded to have crossed the WIM. More freight was shipped WB (62.6%) than EB (37.4%). 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 789021 vehicles with a combined GVW of 8896640 kips (1 kip = 1,000 pounds = 0.5 tons) in August 2018. See Table 5 and Figures 12-13 for GVW information by vehicle class and lane.

Pavement Design. A total of 134635 equivalent single axle loads (ESALs) passed over the pavement at this site. Approximately 66.5% of all ESALs were recorded WB while 33.5% was observed EB. In particular, 85% of all ESALs were generated by the Class 9's (Class 9's were also responsible for generating 53% 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).

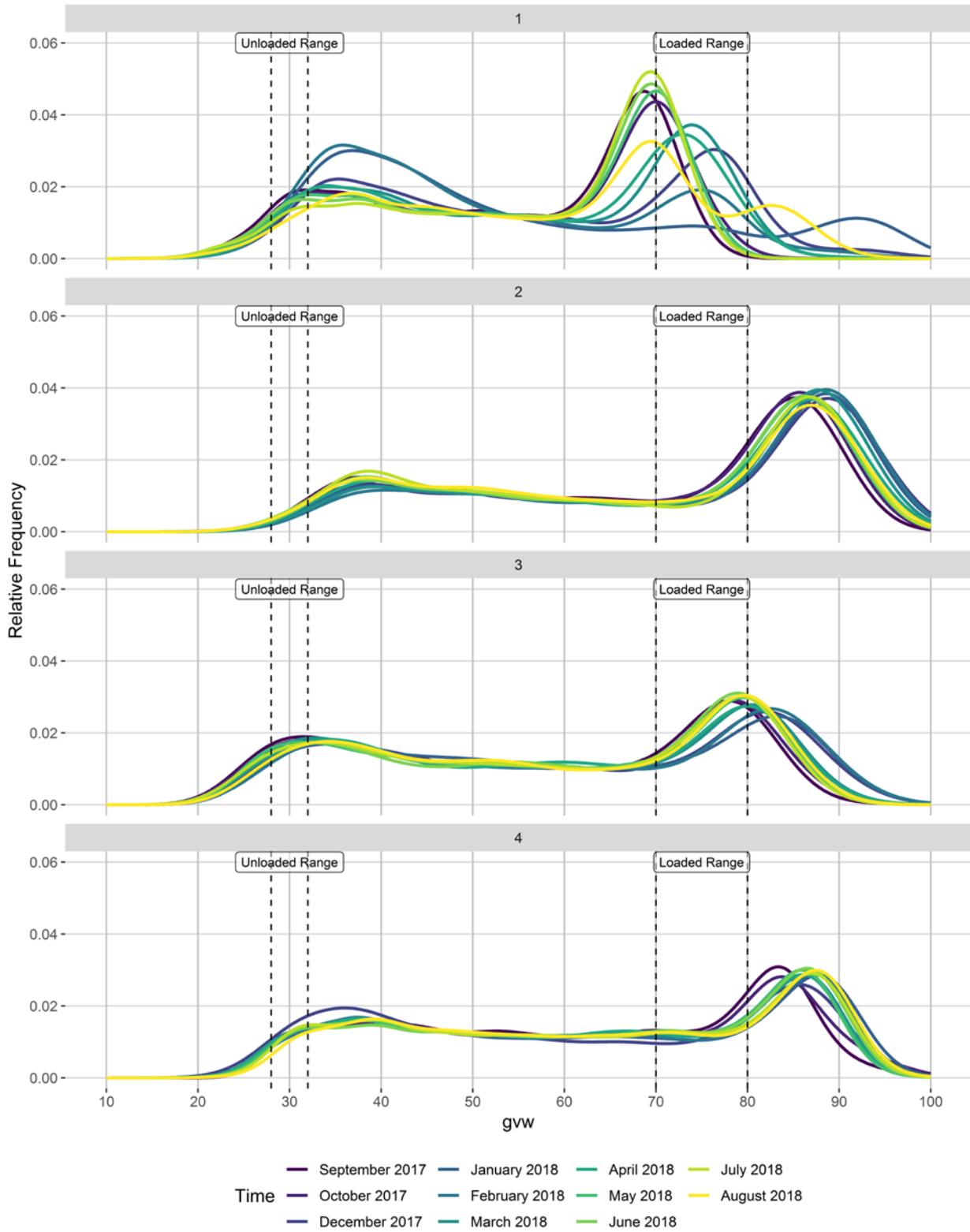
WIM monthly reports can be found at: <http://www.dot.state.mn.us/traffic/data/reports-monthly-wim.html>

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.

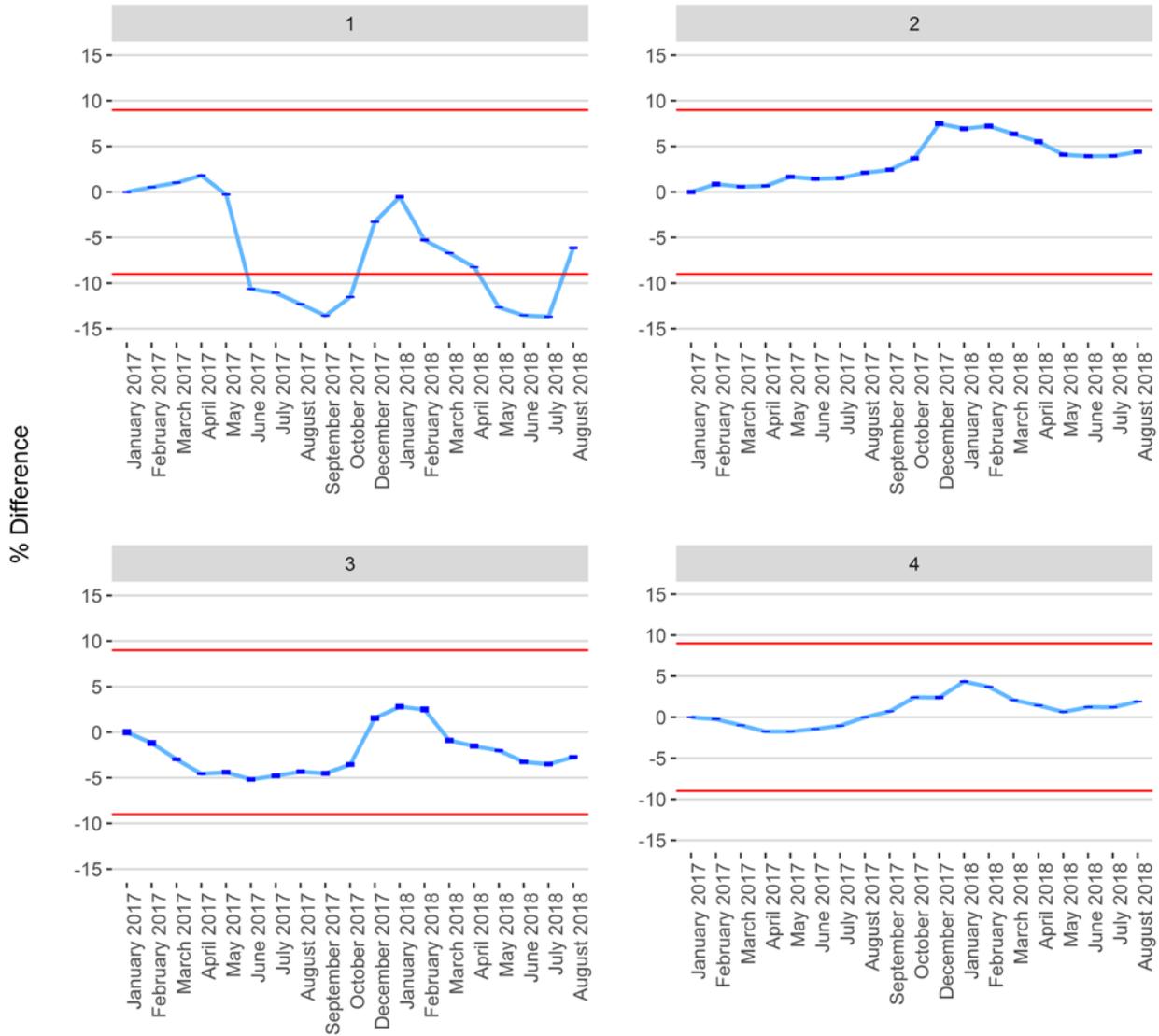
To request this document in an alternative format, please call 651-366-4718 or 1-800-657-3774, or email your request to ADArequest.dot@state.mn.us. Please request at least one week in advance.

Figure 1 - Monthly Class 9 GWW 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

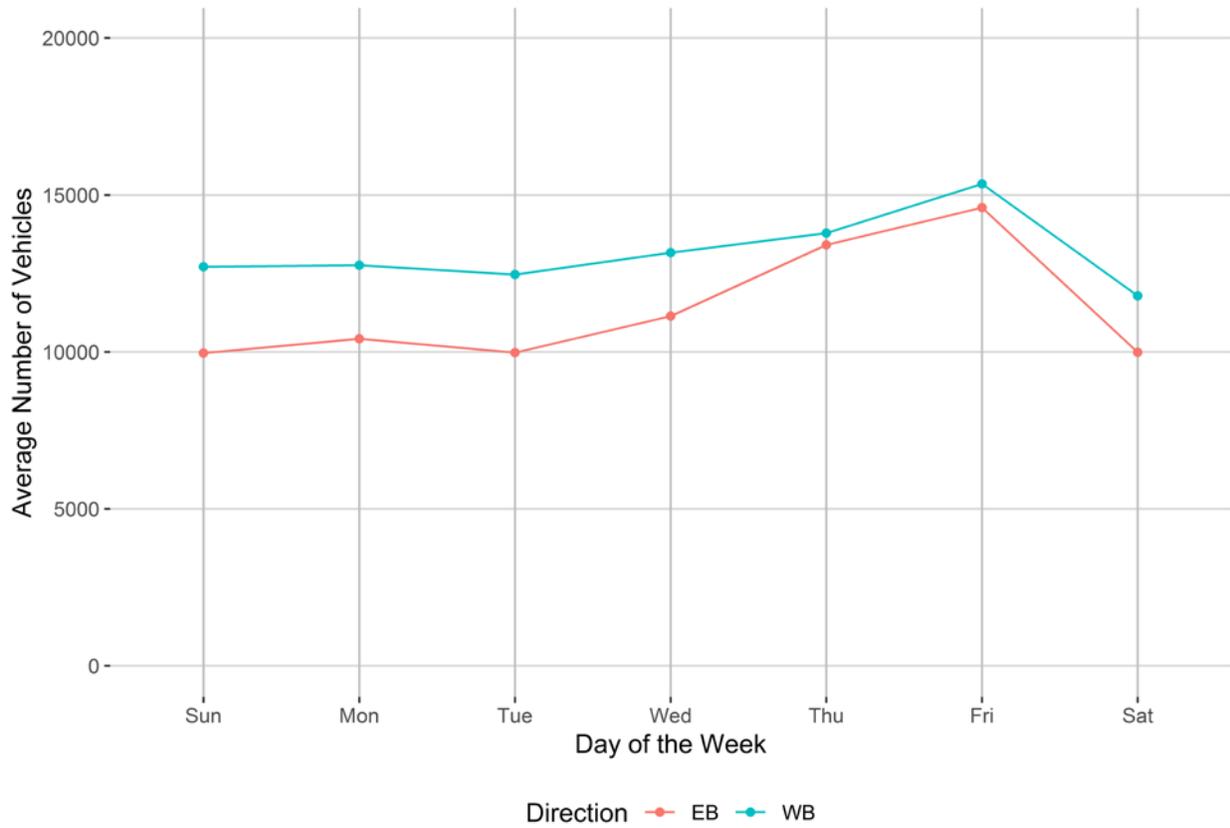


Figure 3 - Average Overweight Vehicle Volume vs. Day of the Week

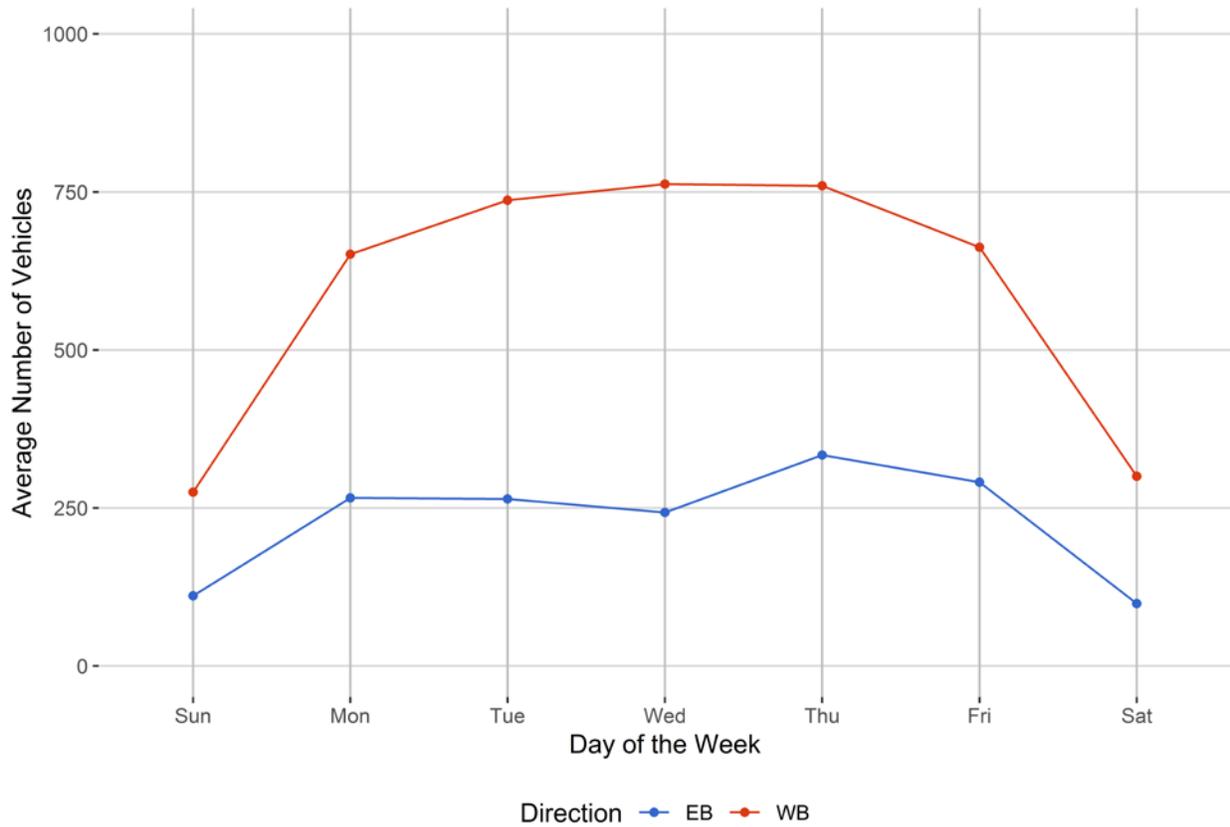


Figure 4 - Passenger Vehicles vs. Hour of the Day

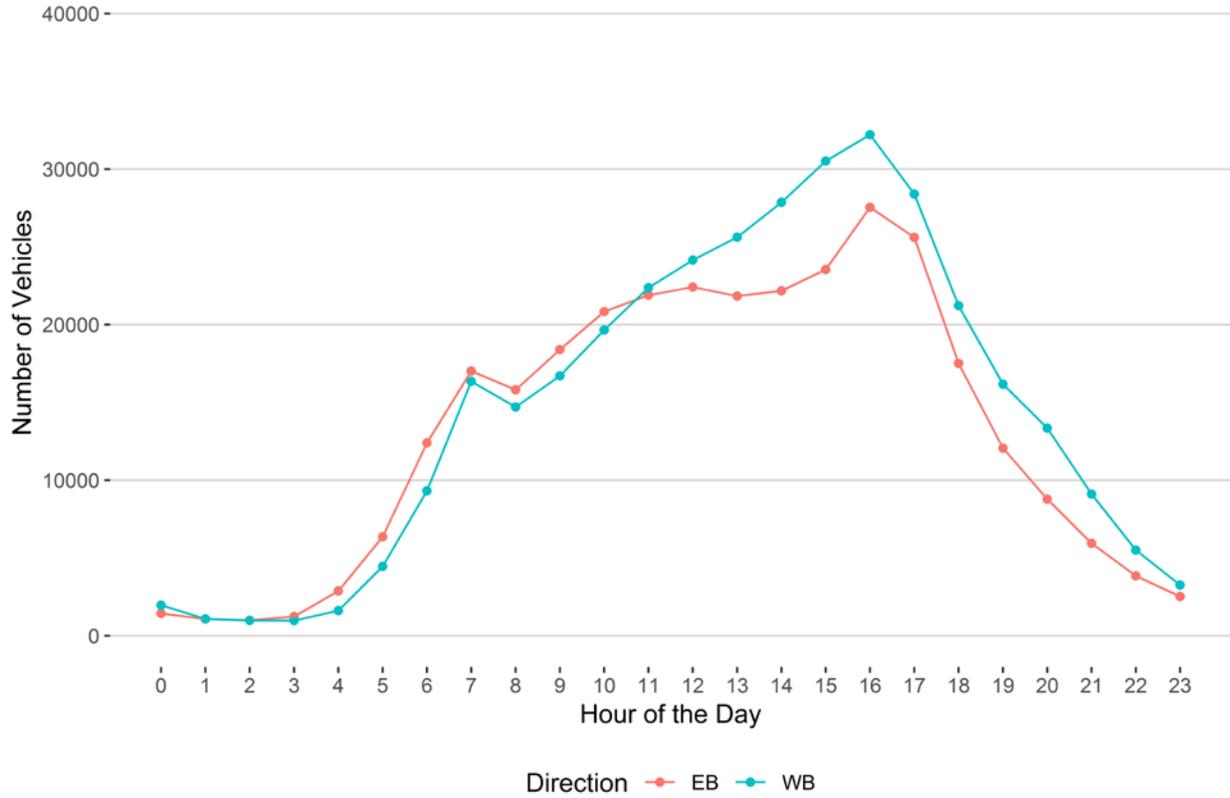


Figure 5 - Heavy Commercial Vehicles vs. Hour of the Day

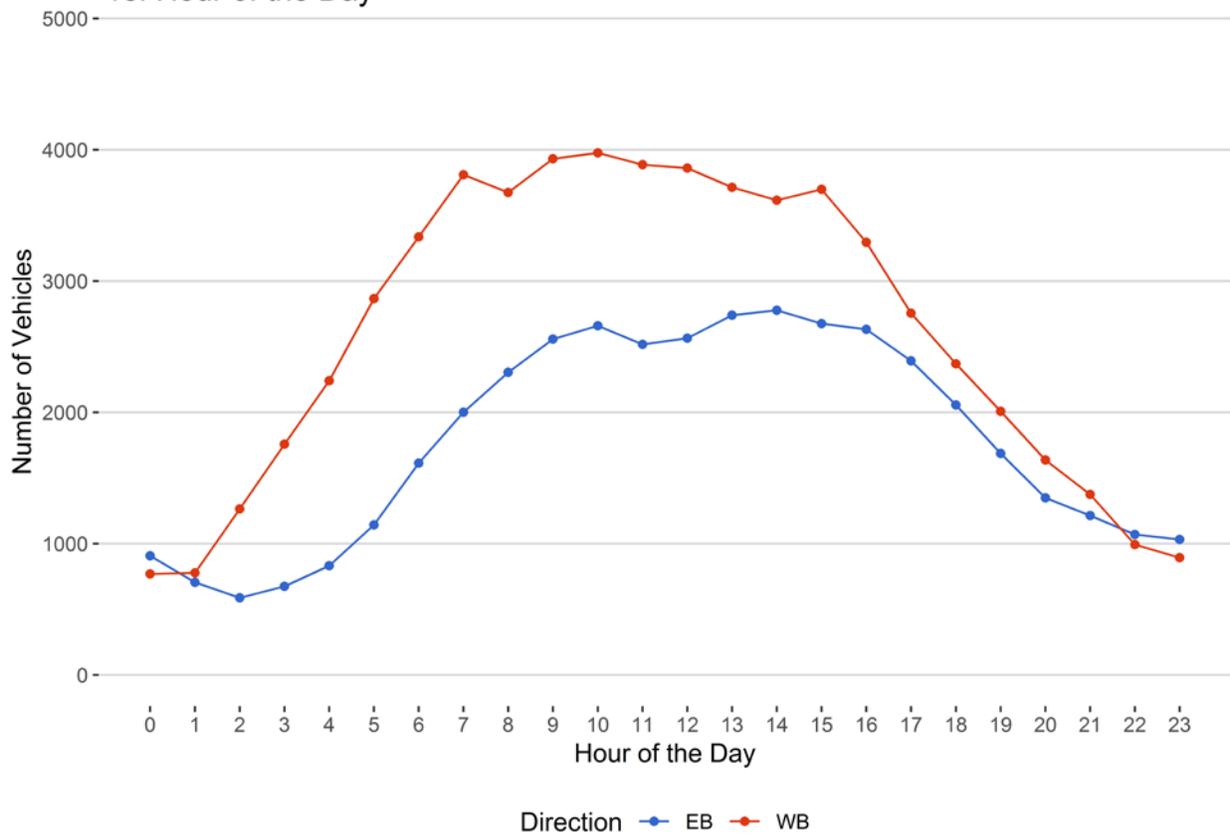


Figure 6 - Overweight Vehicles by Class vs. Hour of the Day

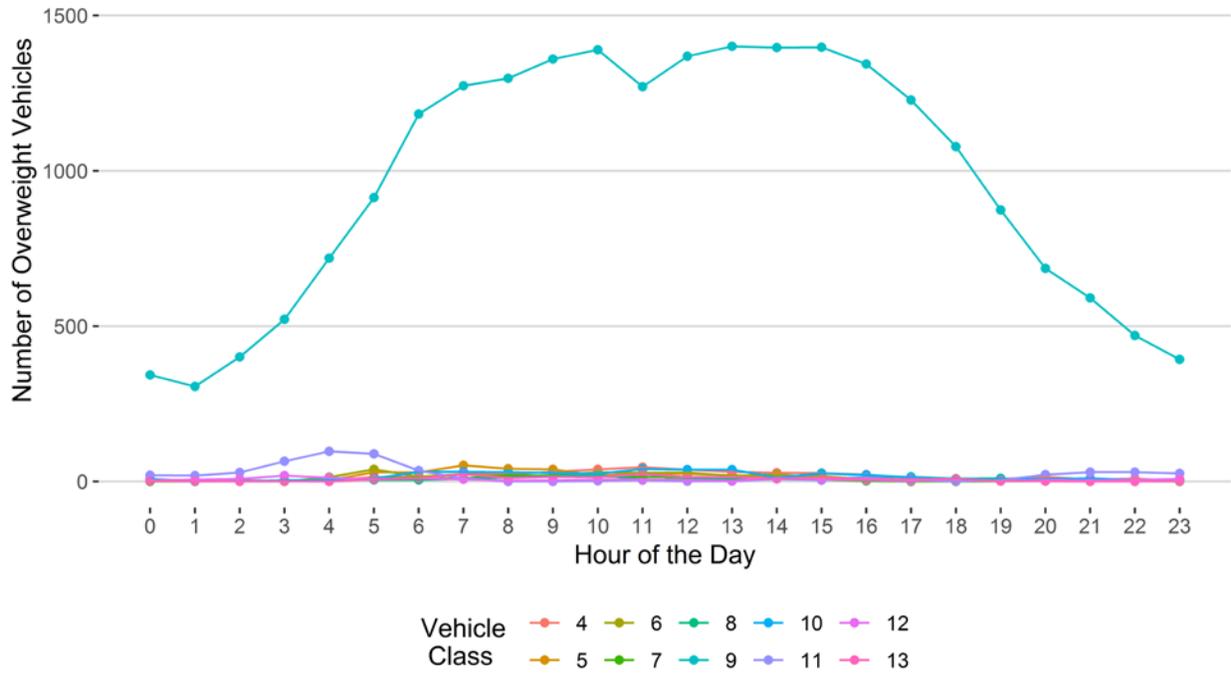


Figure 7 - Overweight Vehicles by Direction
Hour of the Day

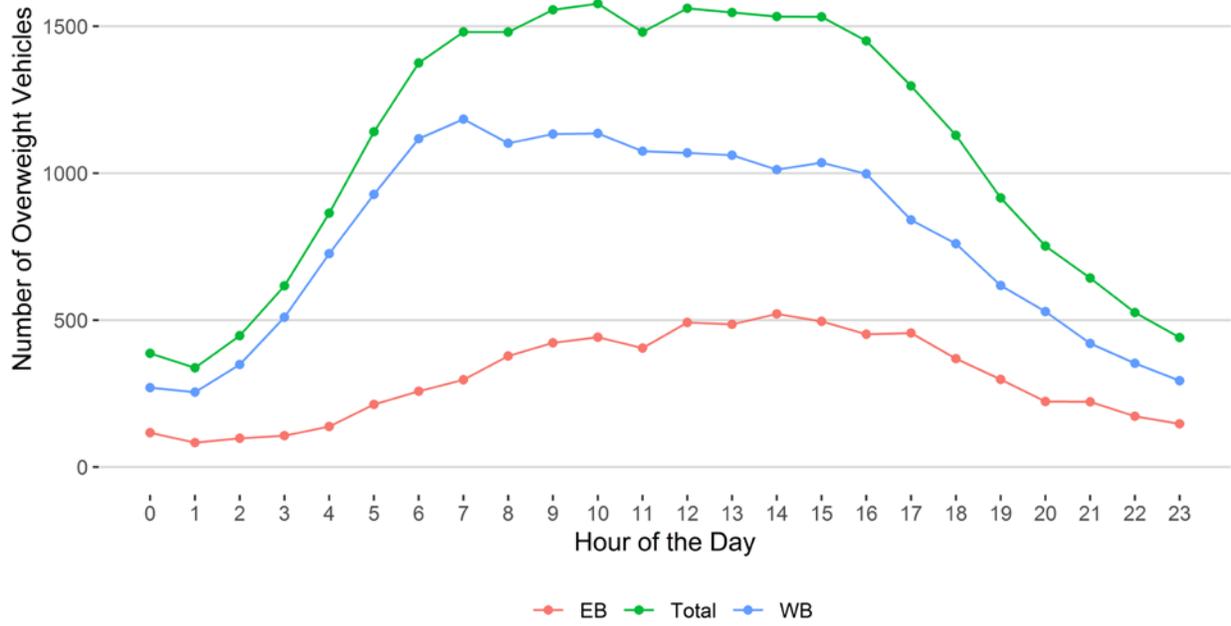
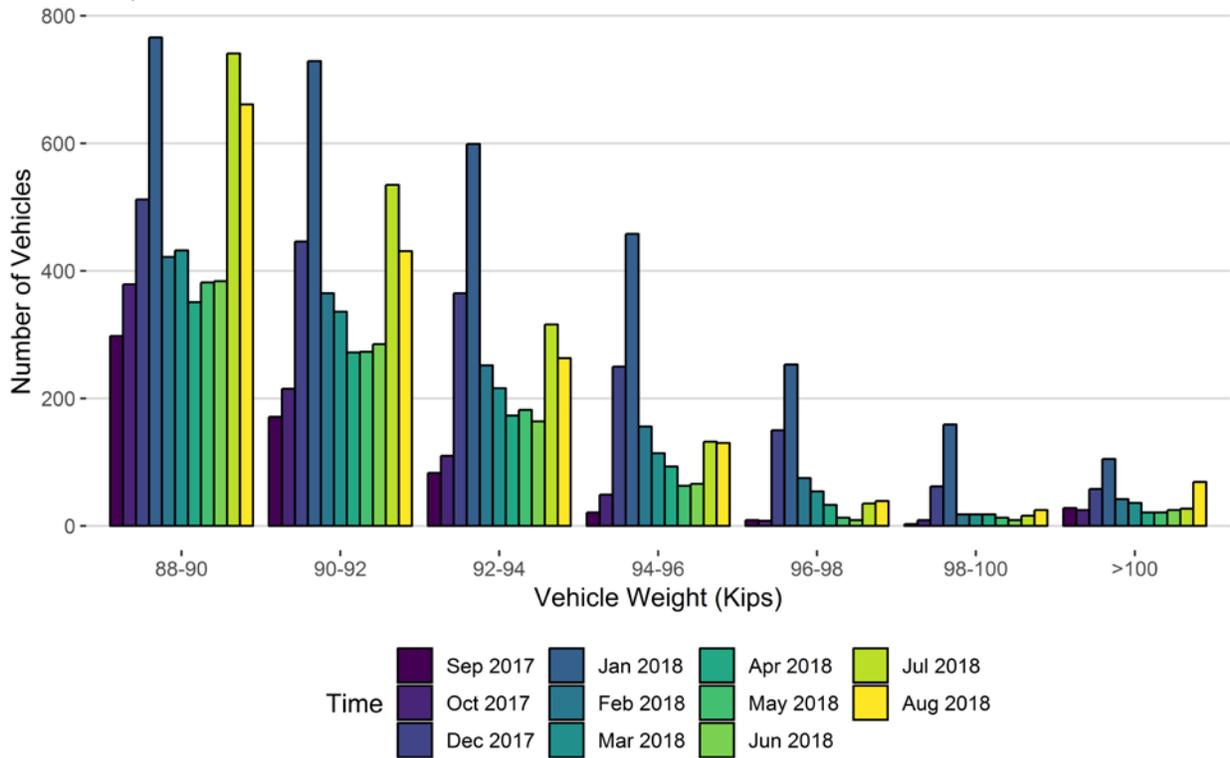
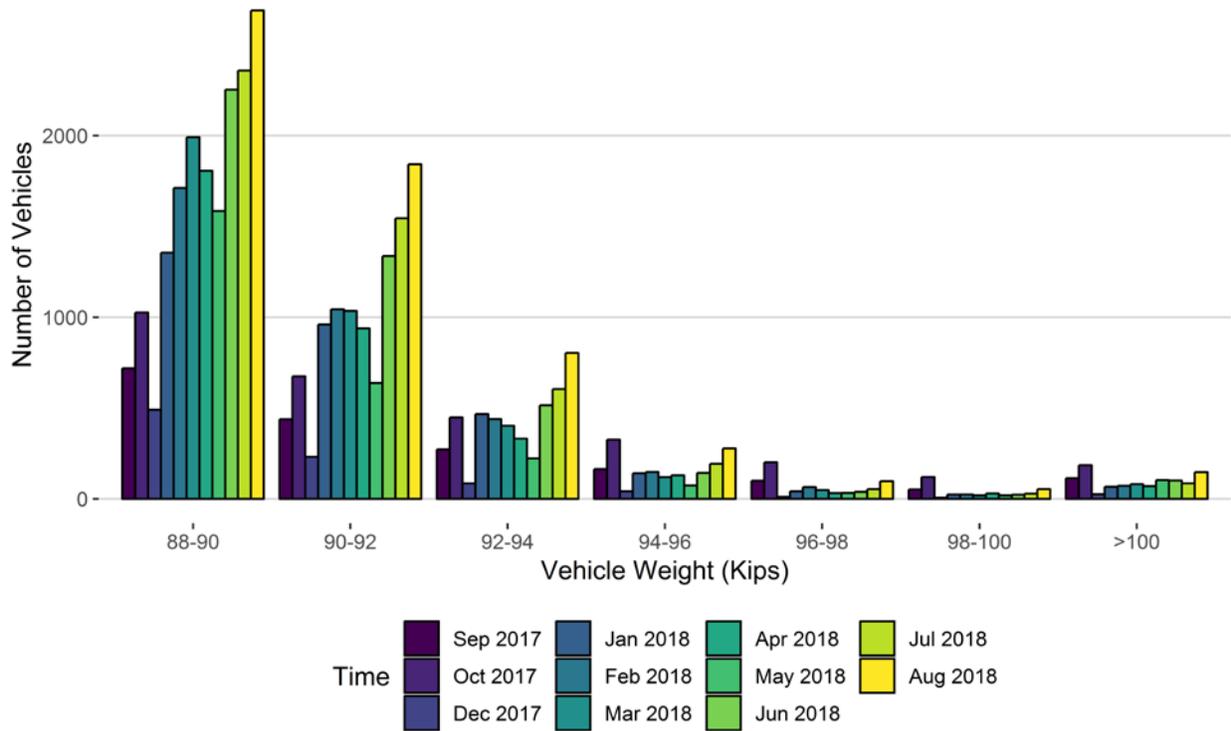


Figure 8 - Histogram of EB Vehicles Over 88,000 Pounds for Current Month



Vehicle Weights (Kips)	Sep 2017	Oct 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018
88-90	298	379	512	766	422	432	351	382	384	741	661
90-92	171	215	446	729	365	336	272	273	285	535	431
92-94	83	110	365	599	252	216	173	182	164	316	263
94-96	21	49	250	458	156	114	93	63	66	132	130
96-98	9	8	150	253	75	54	33	13	9	35	39
98-100	3	9	62	159	18	18	18	13	9	16	25
>100	28	25	58	105	42	36	21	21	25	27	69
Total	613	795	1843	3069	1330	1206	961	947	942	1802	1618

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



Vehicle Weights (Kips)	Sep 2017	Oct 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018
88-90	719	1026	491	1355	1712	1991	1807	1585	2253	2358	2689
90-92	439	675	232	960	1044	1035	939	638	1337	1545	1843
92-94	273	449	86	467	440	403	332	223	516	605	804
94-96	164	326	42	141	148	120	130	74	143	193	278
96-98	100	202	11	42	65	49	32	33	39	54	98
98-100	52	121	7	24	24	20	30	20	23	29	54
>100	114	186	26	67	72	81	70	104	101	86	147
Total	1861	2985	895	3056	3505	3699	3340	2677	4412	4870	5913

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

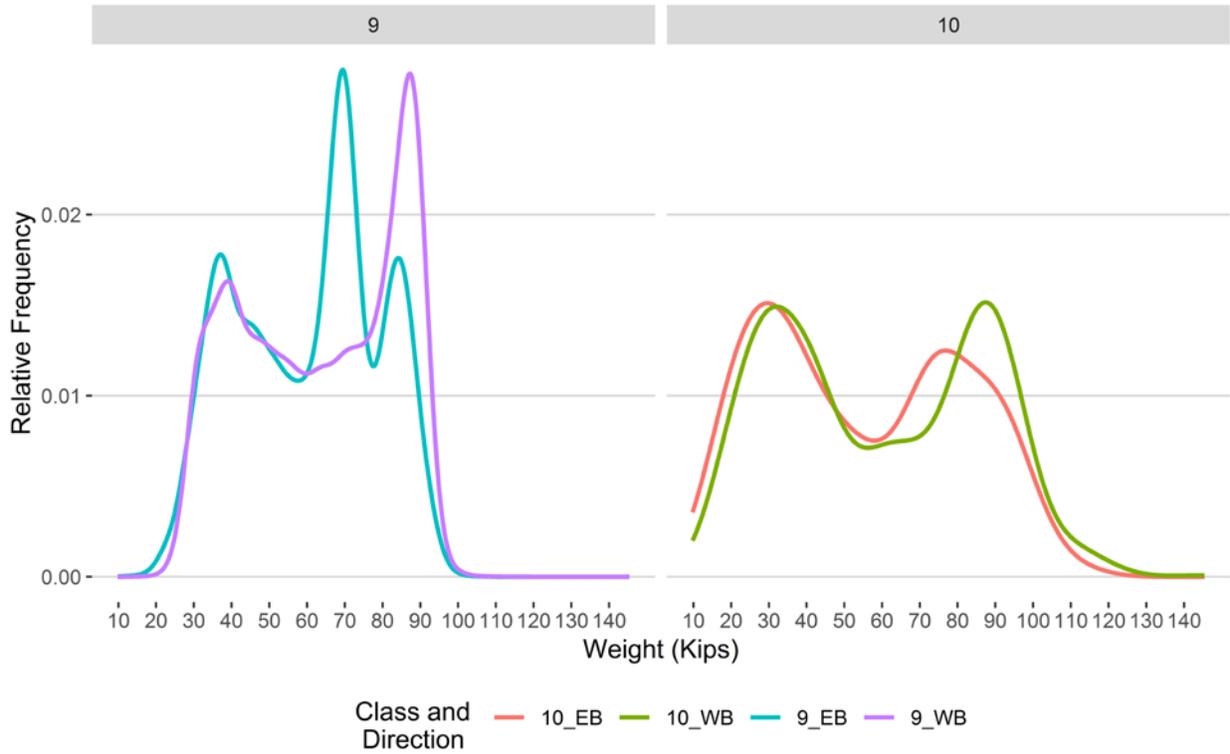


Figure 9 - Freight Percentage by Direction and Class

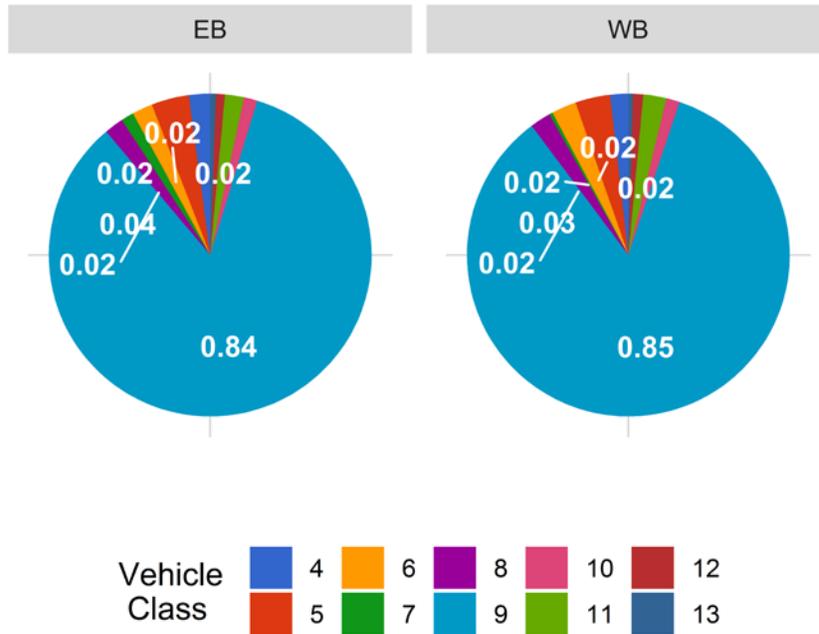


Figure 10 - Total Gross Vehicle Weight Percentage by Class and Lane

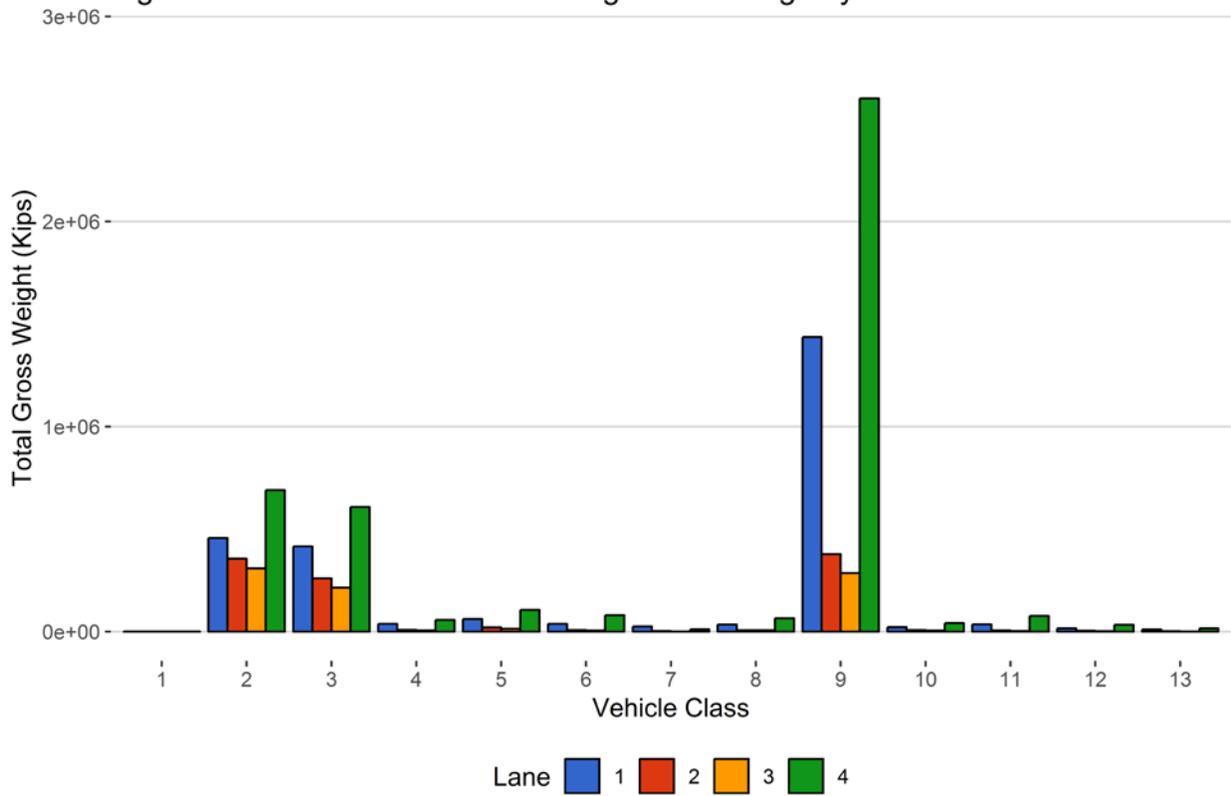


Figure 11 - Total Gross Vehicle Weight t

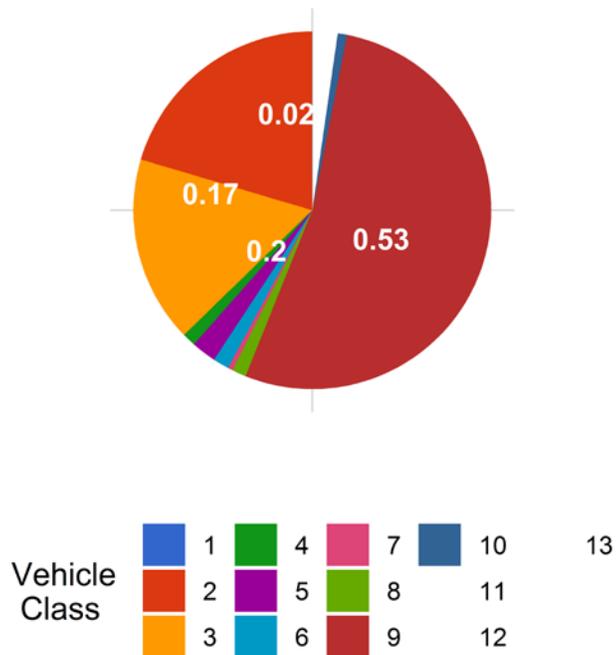


Figure 12 - Total ESALs by Class and Lane

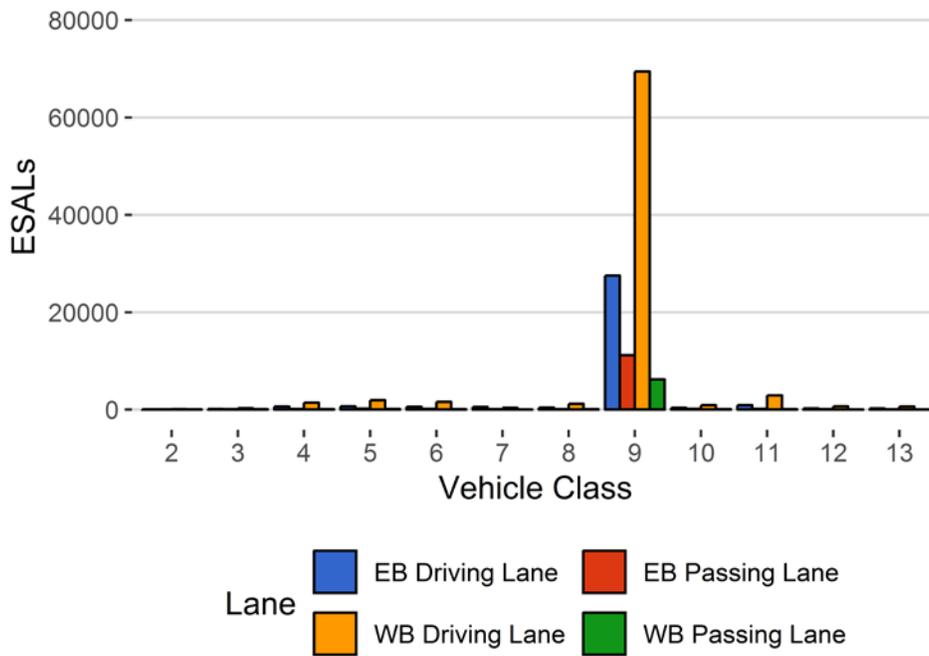


Figure 13 - ESALs by Class

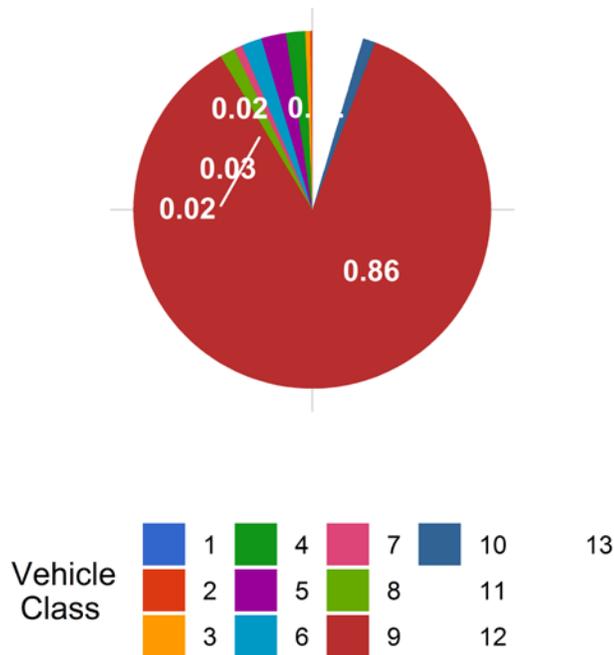


Table 1 Class 9 Front Axle Weight by Lane

<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

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	17	523	0.1	0	0
2	14401	446416	56.6	0	0
3	7549	234027	29.7	0	0
4	126	3907	0.5	412	1.6
5	445	13807	1.7	363	1.4
6	136	4211	0.5	301	1.2
7	22	682	0.1	149	0.6
8	115	3554	0.5	177	0.7
9	2502	77549	9.8	23210	89.7
10	43	1331	0.2	407	1.6
11	61	1894	0.2	514	2
12	27	837	0.1	155	0.6
13	9	281	0	186	0.7
TOTAL	25452	789021	100	25874	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>
2018-08-31	Friday	22:12:54	9	WB	4	145.43
2018-08-29	Wednesday	13:24:37	10	WB	4	144.4
2018-08-17	Friday	12:56:08	10	WB	4	124.48
2018-08-08	Wednesday	20:18:50	10	WB	4	121.85
2018-08-03	Friday	11:16:46	10	WB	4	117.65
2018-08-27	Monday	17:17:24	9	WB	4	117.65
2018-08-10	Friday	07:23:25	10	WB	4	117.08
2018-08-17	Friday	07:58:56	10	WB	4	115.83
2018-08-26	Sunday	15:10:07	10	EB	1	115.09
2018-08-20	Monday	09:44:04	10	WB	4	114.83

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	1743	251	14.4	42629	3301	10125
5	EB	8	5890	893	15.2	74930	6189	17477
6	EB	19	1469	257	17.5	40093	4270	8532
7	EB	11.5	462	0	0	27511	0	11099
8	EB	31	1381	725	52.5	25895	15588	2780
9	EB	33	30082	2361	7.8	1746365	68272	415786
10	EB	33.5	525	154	29.3	25286	3762	6429
11	EB	36.5	699	51	7.3	39597	1505	7972
12	EB	36.5	307	10	3.3	19107	279	4133
13	EB	31.5	134	0	0	12035	0	3907
TOTAL	****	****	42692	4702	****	2053447	****	488240
<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	2061	127	6.2	60374	1690	15682
5	WB	8	7552	407	5.4	116123	2947	29481
6	WB	19	2631	168	6.4	81834	2977	17518
7	WB	11.5	202	0	0	11713	0	4695
8	WB	31	2079	850	40.9	51523	19530	6712
9	WB	33	45417	3327	7.3	2786708	99749	698869
10	WB	33.5	771	196	25.4	40902	5073	10820
11	WB	36.5	1145	20	1.7	78464	493	18701
12	WB	36.5	508	7	1.4	34605	182	8159
13	WB	31.5	140	0	0	15702	0	5646
TOTAL	****	****	62506	5102	****	3277946	****	816283
GRAND TOTAL	****	****	105198	9804	242	5331393	235808	1304522

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	170	155	124	211	660	0
2	456694	356034	308373	689743	1810844	20.4
3	415234	259385	213736	607966	1496322	16.9
4	37605	8325	5555	56509	107995	1.2
5	61236	19883	13446	105623	200188	2.3
6	37420	6943	4938	79872	129174	1.5
7	24728	2783	553	11161	39224	0.4
8	34691	6792	6302	64751	112537	1.3
9	1436573	378064	285358	2601099	4701093	53
10	21929	7119	4620	41355	75023	0.8
11	35266	5836	2777	76179	120058	1.4
12	15466	3919	1646	33141	54172	0.6
13	10000	2035	339	15363	27737	0.3
TOTAL	2587012	1057274	847767	4382975	8875027	100
GVW/LANE	29.15	11.91	9.55	49.39	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	0.002
2	44	54	46	96	239	0.18	0.0011
3	126	112	90	283	611	0.46	0.0054
4	635	148	106	1421	2310	1.73	1.21
5	686	230	152	1925	2993	2.24	0.45
6	617	163	78	1588	2445	1.83	1.19
7	554	76	12	359	1001	0.75	2.99
8	422	98	106	1212	1837	1.38	1.06
9	27543	11169	6238	69442	114393	85.71	3.03
10	358	164	80	924	1527	1.14	2.35
11	917	189	89	2916	4111	3.08	4.44
12	257	93	22	685	1056	0.79	2.57
13	239	55	11	643	947	0.71	6.65
TOTAL	32397	12551	7029	81493	133470	100	26
ESALS/LANE	24.3	9.4	5.3	61.1	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>
Sep 2017	726392	24213	3236	629322	86.6	97070.4	13.4	87.1	12.9
Oct 2017	719949	23224	2883	630576	87.6	89373.1	12.4	84.9	15.1
Dec 2017	608685	19635	1976	547421	89.9	61264.3	10.1	81.9	18.1
Jan 2018	545214	17588	1886	486743	89.3	58471.1	10.7	80.9	19.1
Feb 2018	519118	18540	2213	457150	88.1	61967.9	11.9	84.8	15.2
Mar 2018	672594	21697	3246	571963	85	100631.3	15	89.4	10.6
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
TOTAL	7623131	-	-	6627308	-	995824	-	-	-
AVERAGE	693012	22730	2969	602483	87	90529	13	85	15

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>
Sep 2017	21056	9854	4941	62745	98597	85	15	14.4
Oct 2017	17870	10341	5631	60500	94342	83	17	25.9
Dec 2017	32042	9829	5415	21039	68325	78	22	11.1
Jan 2018	19672	10910	5796	35694	72073	77	23	37.1
Feb 2018	11994	9787	5059	45812	72652	80	20	31.6
Mar 2018	36022	10271	5273	66550	118116	87	13	23.4
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
TOTAL	282827	127543	72870	643868	1127108	-	-	-
AVERAGE	25712	11595	6624	58533	102464	82	18	24

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>
Sep 2017	1766773	670355	515044	1948965	4901137
Oct 2017	1548618	606656	457410	2455684	5068368
Dec 2017	2931469	759060	586267	3650504	7927301
Jan 2018	2785677	692032	555620	3520002	7553332
Feb 2018	2870338	936643	1392451	3125714	8325147
Mar 2018	2735684	971481	814055	4101668	8622887
Apr 2018	2329986	1486733	800733	4211161	8828613
May 2018	2592130	1058321	848141	4398049	8896640
Jun 2018	2281938	844722	639059	3699998	7465716
Jul 2018	1844438	851013	680855	3359518	6735824
Aug 2018	2602727	725139	571128	1034431	4933426
TOTAL	26289779	9602155	7860763	35505694	79258391
AVERAGE	2389980	872923	714615	3227790	7205308

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>
Sep 2017	16680	2.4	17.8	2488	208
Oct 2017	16692	2.6	19.2	3826	354
Dec 2017	10576	2	15.9	2771	163
Jan 2018	14410	2.9	22.6	6149	364
Feb 2018	14486	3	22.6	4842	158
Mar 2018	20928	3.2	21	4910	155
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
TOTAL	200654	-	-	52538	2328
AVERAGE	18241.3	2.8	20.2	4776.2	211.6

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>
Sep 2017	391097	664771	1055867	37	63
Oct 2017	337732	622525	960257	35.2	64.8
Dec 2017	444244	175532	619776	71.7	28.3
Jan 2018	278786	364384	643170	43.3	56.7
Feb 2018	224800	462615	687414	32.7	67.3
Mar 2018	524835	672213	1197049	43.8	56.2
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
TOTAL	4649721	6628432	11278153	-	-
AVERAGE	422701.9	602584.7	1025286.6	42.2	57.8