

NOVEMBER 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 November 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 lanes 2 and 3 but not lanes 1 and 4. 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: 686604 | Passenger Vehicles: 582417 | Heavy Commercial Vehicles: 104187

Monthly Average Daily Traffic (MADT): 22887 | Monthly Heavy Commercial Average Daily Traffic (MHCADT): 3473

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 Mondays, with lowest volumes reported on Saturdays (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 104187 HCVs, 34683 of them were overweight³. These overweight HCVs contributed to 5.4% of total monthly volume, and 35% 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 Saturdays. See Figure 3 .

The top two overweight violators by class were the class 9 and class 7 vehicles . Overall, overweight vehicles tended to reach peak volume concentrations during typical business hours, with 57.1% 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 report⁴.

Using normal load limits ,8434 EB vehicles exceeded 88,000 pounds (7891 vehicles were Class 9's; 265 vehicles were Class 10's). Of vehicles traveling WB,

9526 EB vehicles exceeded 88,000 pounds (9001 vehicles were Class 9's; 154 vehicles were Class 10's). Refer to Table 3 for the Top 10 highest recorded GVWs from Classes 9 and 10 from November 2018.

Loaded vs. Unloaded HCVs. Figure 10 shows the GVW distributions of Class 9s and 10s in November 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 1440250 tons of freight was recorded to have crossed the WIM. More freight was shipped EB (54.9%) than WB (45.1%). 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 686604 vehicles with a combined GVW of 8690423 kips (1 kip = 1,000 pounds = 0.5 tons) in November 2018. See Table 5 and Figures 12-13 for GVW information by vehicle class and lane.

Pavement Design. A total of 198511 equivalent single axle loads (ESALs) passed over the pavement at this site. Approximately 54.5% of all ESALs were recorded WB while 45.5% was observed EB. In particular, 76% of all ESALs were generated by the Class 9's (Class 9's were also responsible for generating 55% 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).

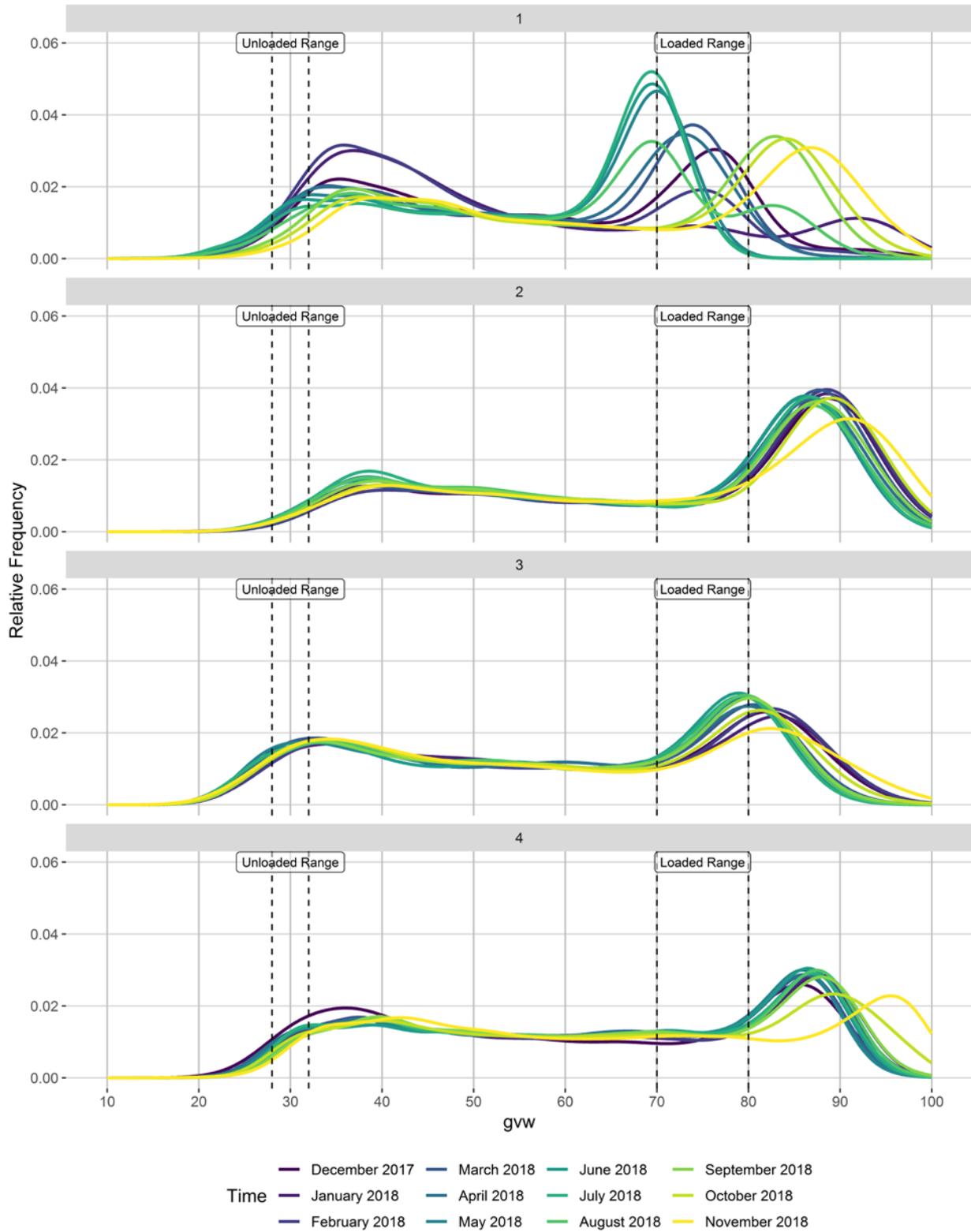
WIM monthly reports can be found at: <http://www.dot.state.mn.us/traffic/data/reports-monthly-wim.html>

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.

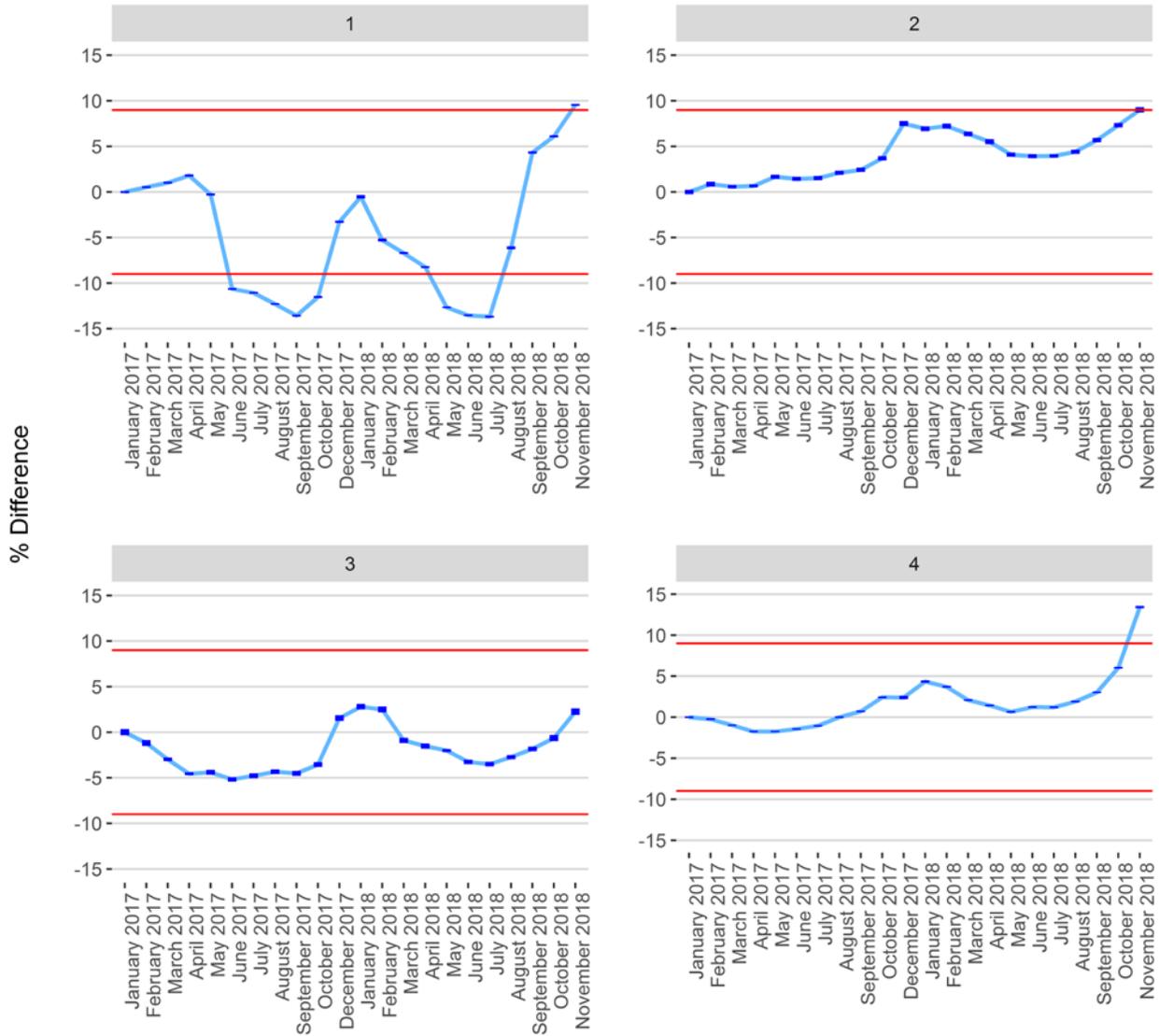
To request this document in an alternative format, please call 651-366-4718 or 1-800-657-3774, or email your request to ADArequest.dot@state.mn.us. Please request at least one week in advance.

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

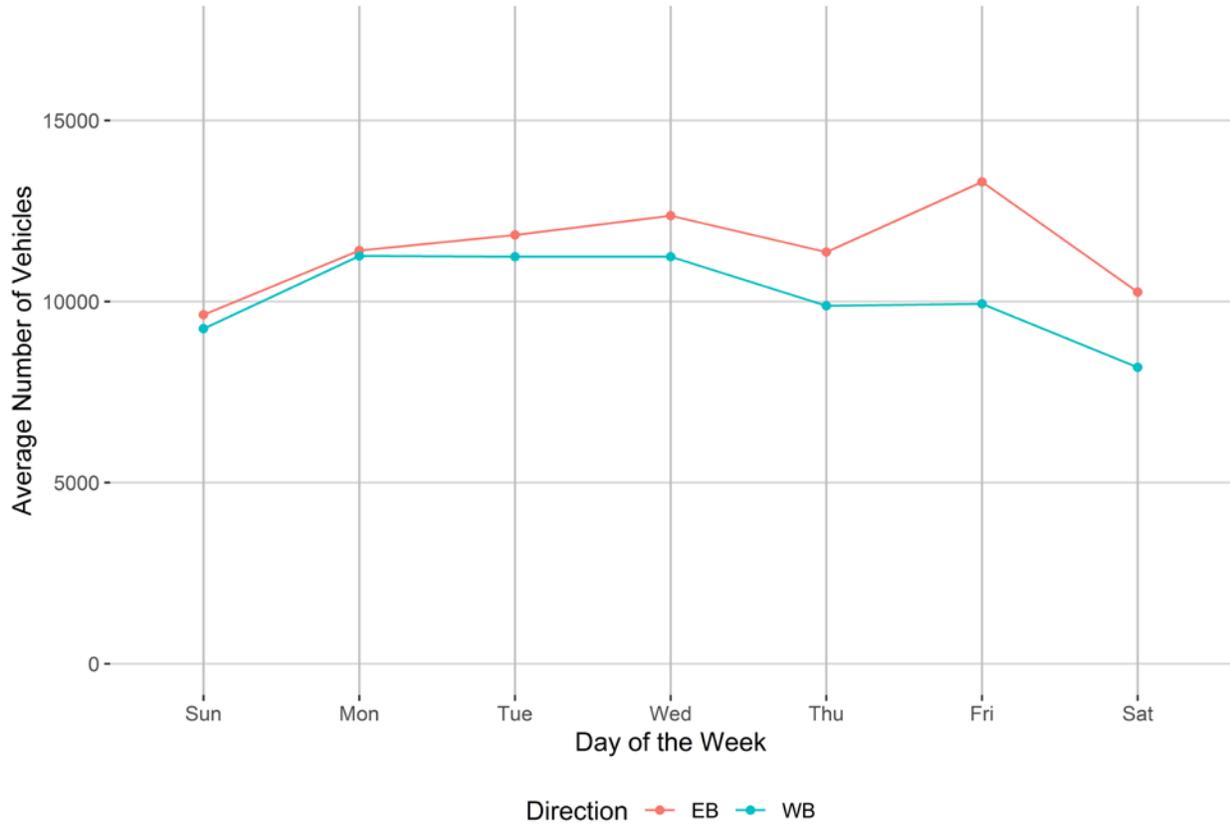


Figure 3 - Average Overweight Vehicle Volume vs. Day of the Week

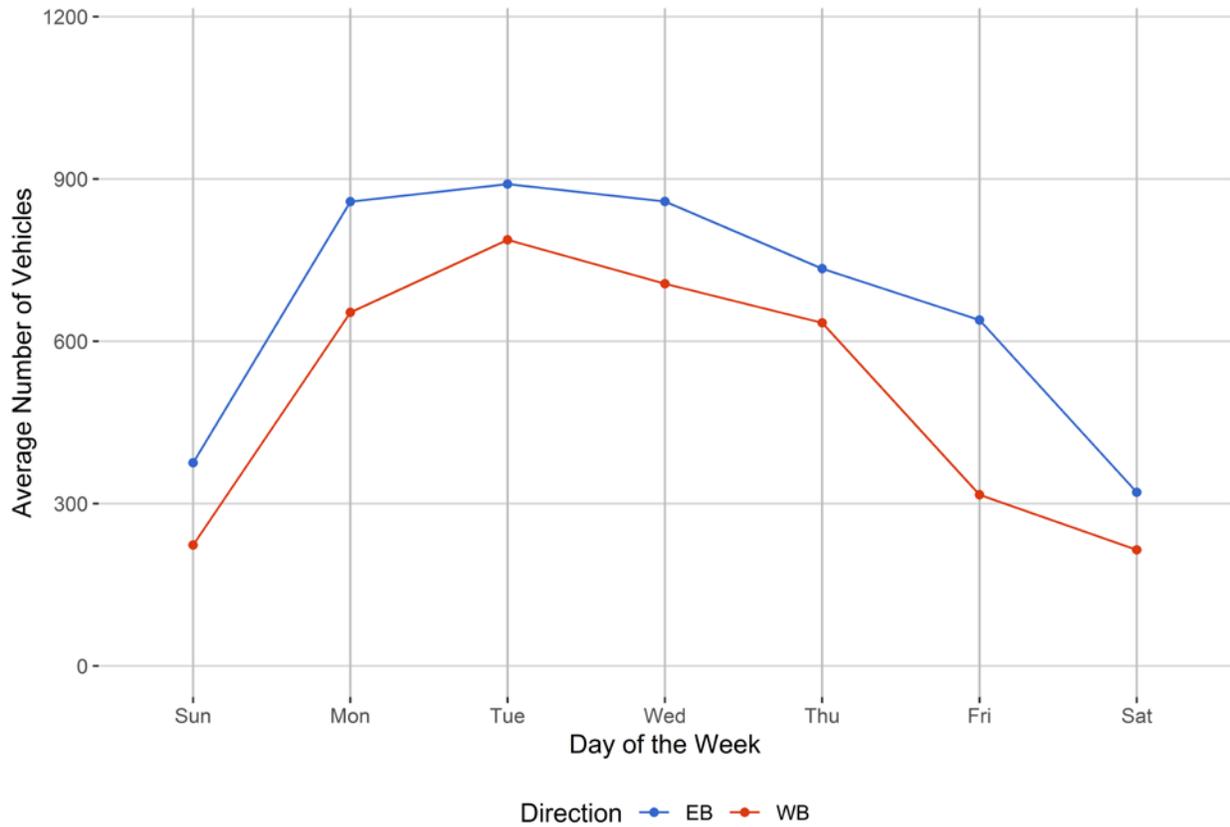


Figure 4 - Passenger Vehicles vs. Hour of the Day

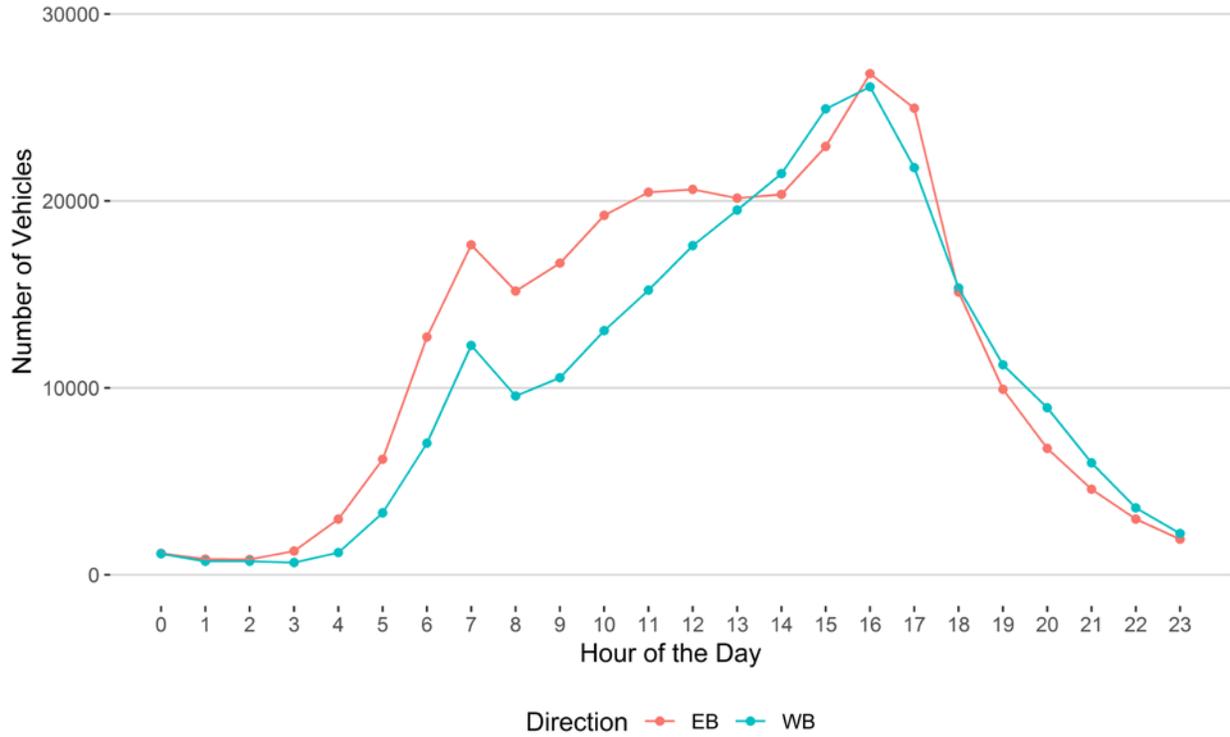


Figure 5 - Heavy Commercial Vehicles vs. Hour of the Day

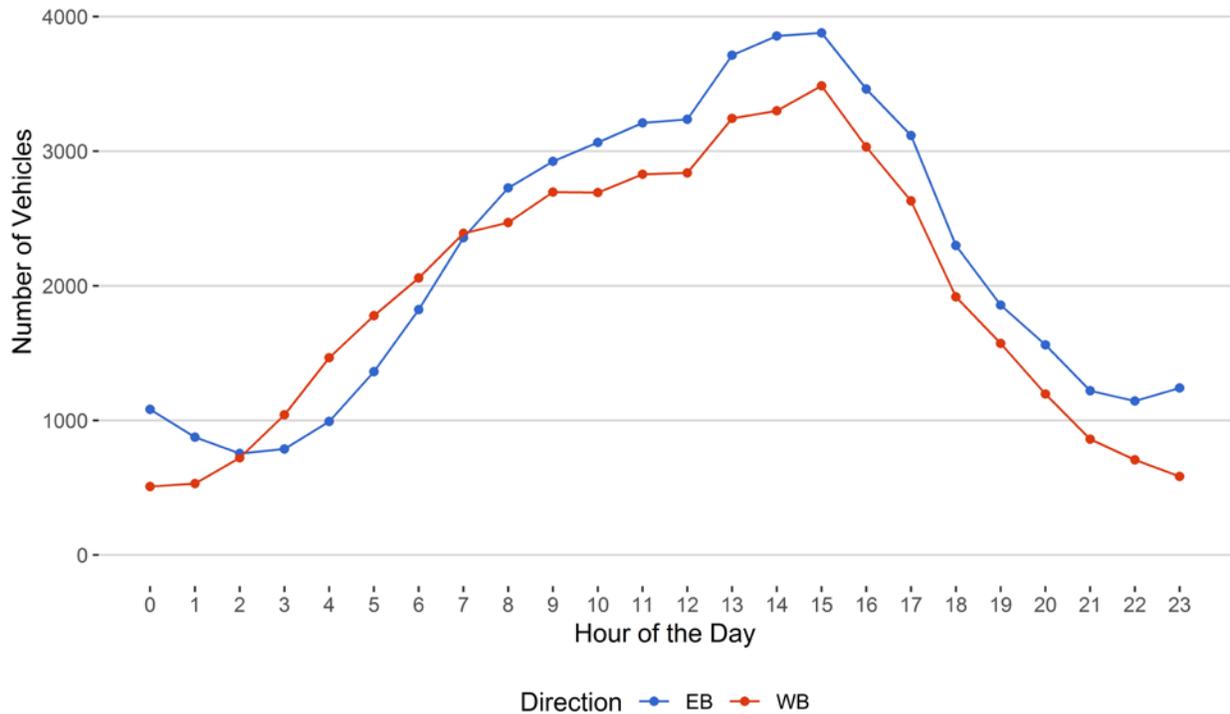


Figure 6 - Overweight Vehicles by Class vs. Hour of the Day

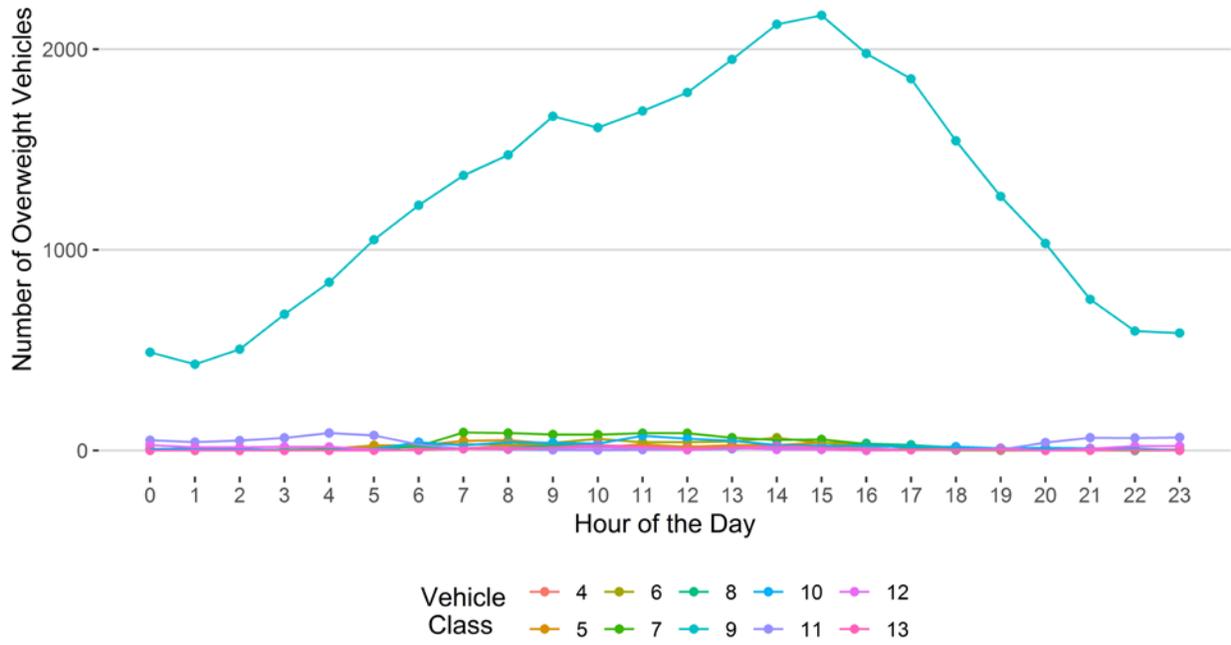


Figure 7 - Overweight Vehicles by Direction
Hour of the Day

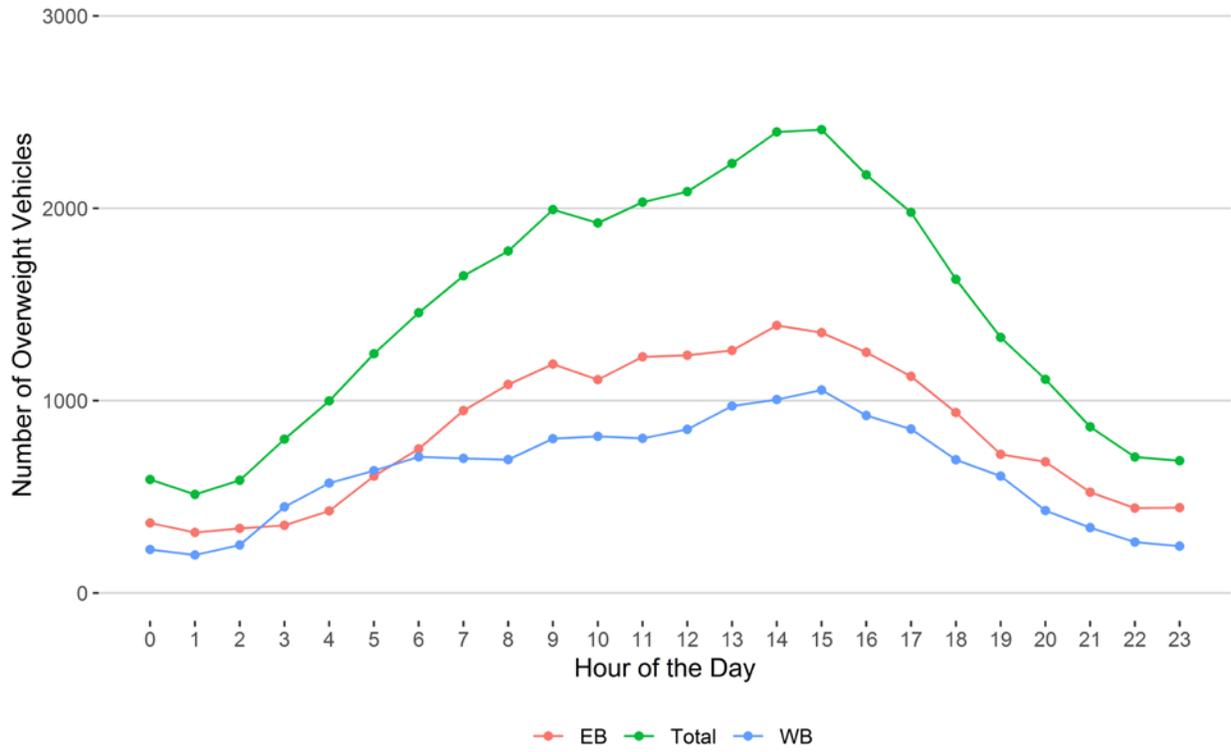
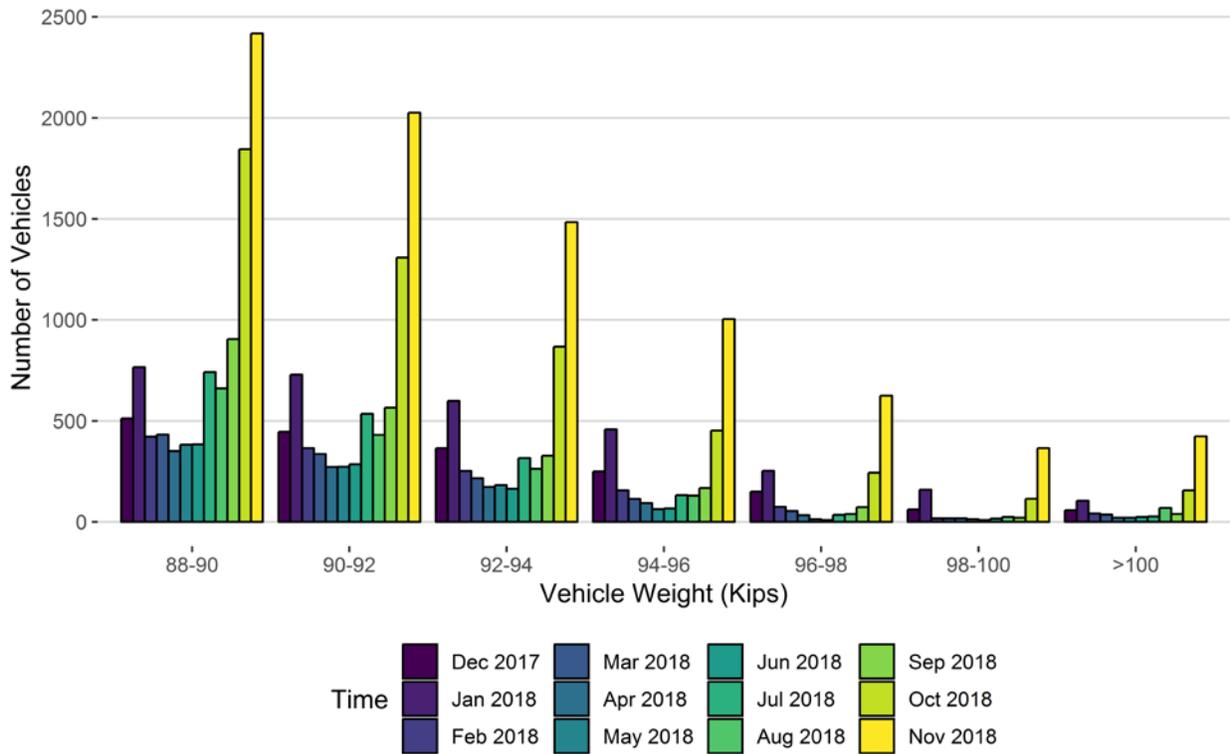
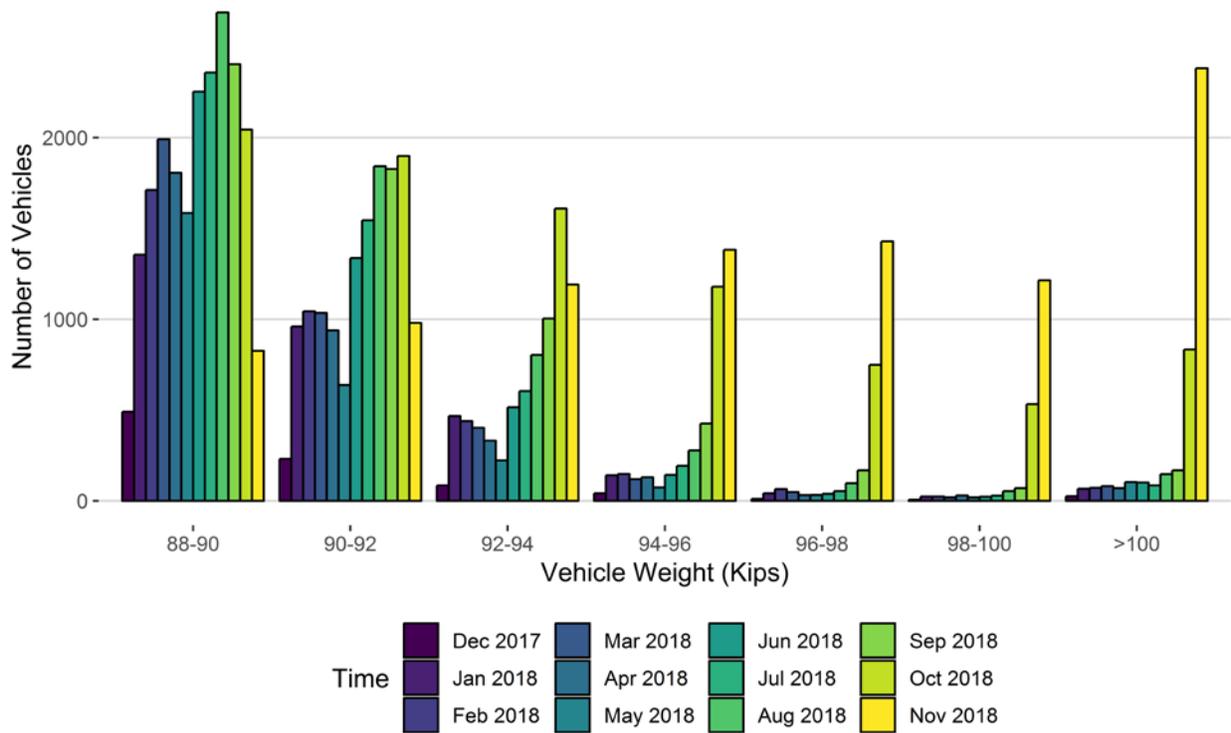


Figure 8 - Histogram of EB Vehicles Over 88,000 Pounds for Current Month



Vehicle Weights (Kips)	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018
88-90	512	766	422	432	351	382	384	741	661	905	1845	2418
90-92	446	729	365	336	272	273	285	535	431	566	1309	2026
92-94	365	599	252	216	173	182	164	316	263	328	867	1484
94-96	250	458	156	114	93	63	66	132	130	168	452	1004
96-98	150	253	75	54	33	13	9	35	39	73	244	625
98-100	62	159	18	18	18	13	9	16	25	21	115	365
>100	58	105	42	36	21	21	25	27	69	39	156	424
Total	1843	3069	1330	1206	961	947	942	1802	1618	2100	4988	8346

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



Vehicle Weights (Kips)	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018
88-90	491	1355	1712	1991	1807	1585	2253	2358	2689	2404	2044	826
90-92	232	960	1044	1035	939	638	1337	1545	1843	1827	1899	980
92-94	86	467	440	403	332	223	516	605	804	1004	1609	1191
94-96	42	141	148	120	130	74	143	193	278	426	1179	1383
96-98	11	42	65	49	32	33	39	54	98	169	749	1429
98-100	7	24	24	20	30	20	23	29	54	70	533	1214
>100	26	67	72	81	70	104	101	86	147	169	834	2382
Total	895	3056	3505	3699	3340	2677	4412	4870	5913	6069	8847	9405

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

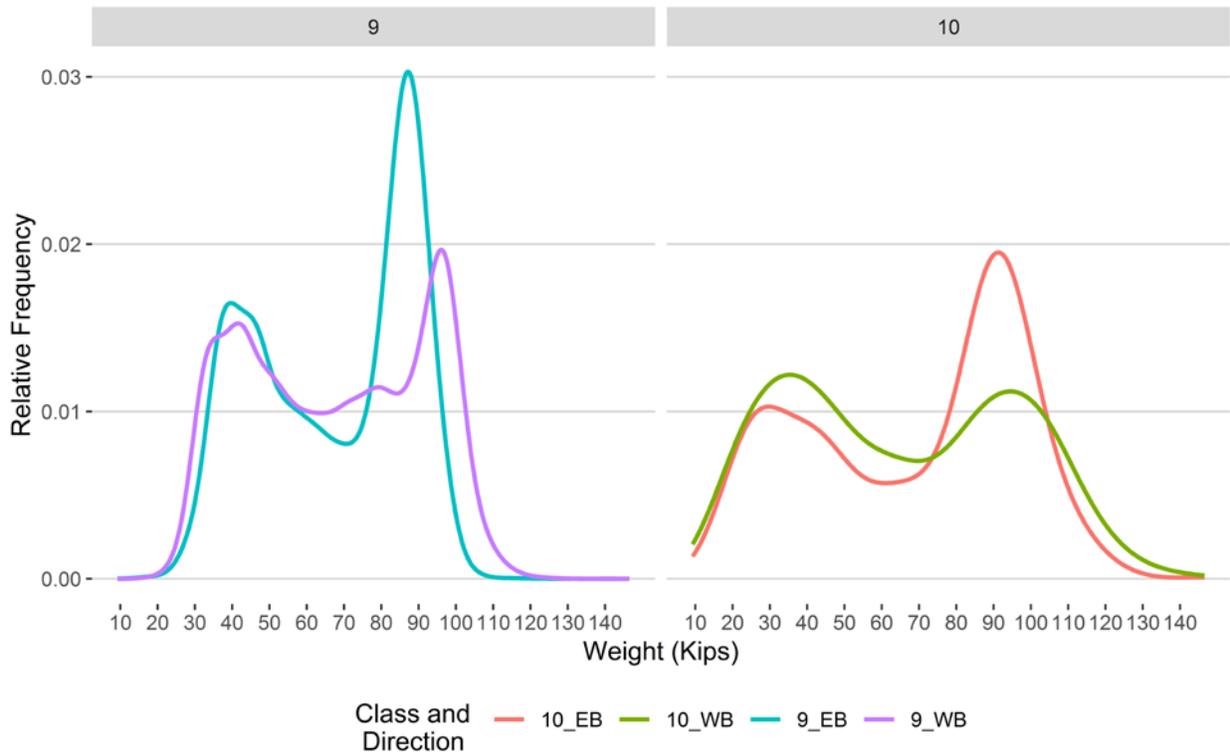


Figure 9 - Freight Percentage by Direction and Class

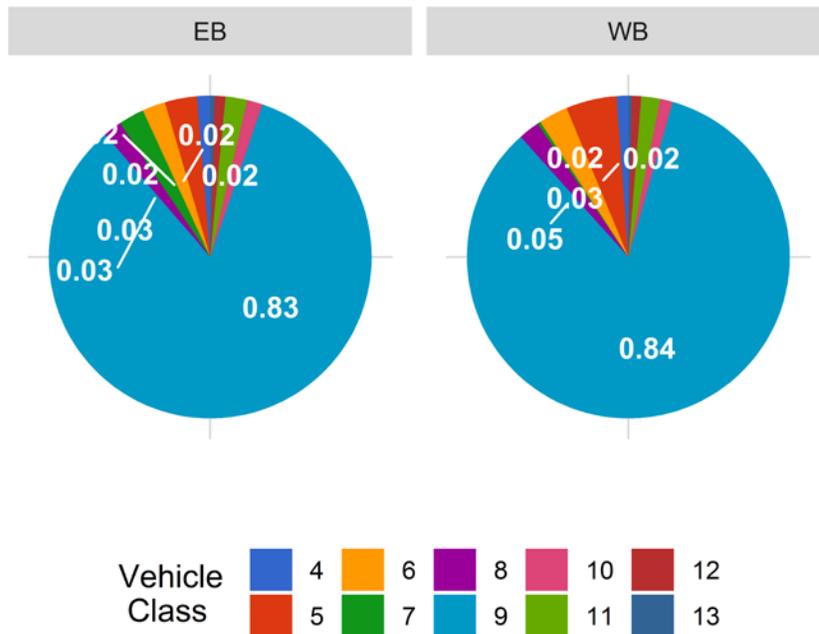


Figure 10 - Total Gross Vehicle Weight Percentage by Class and Lane

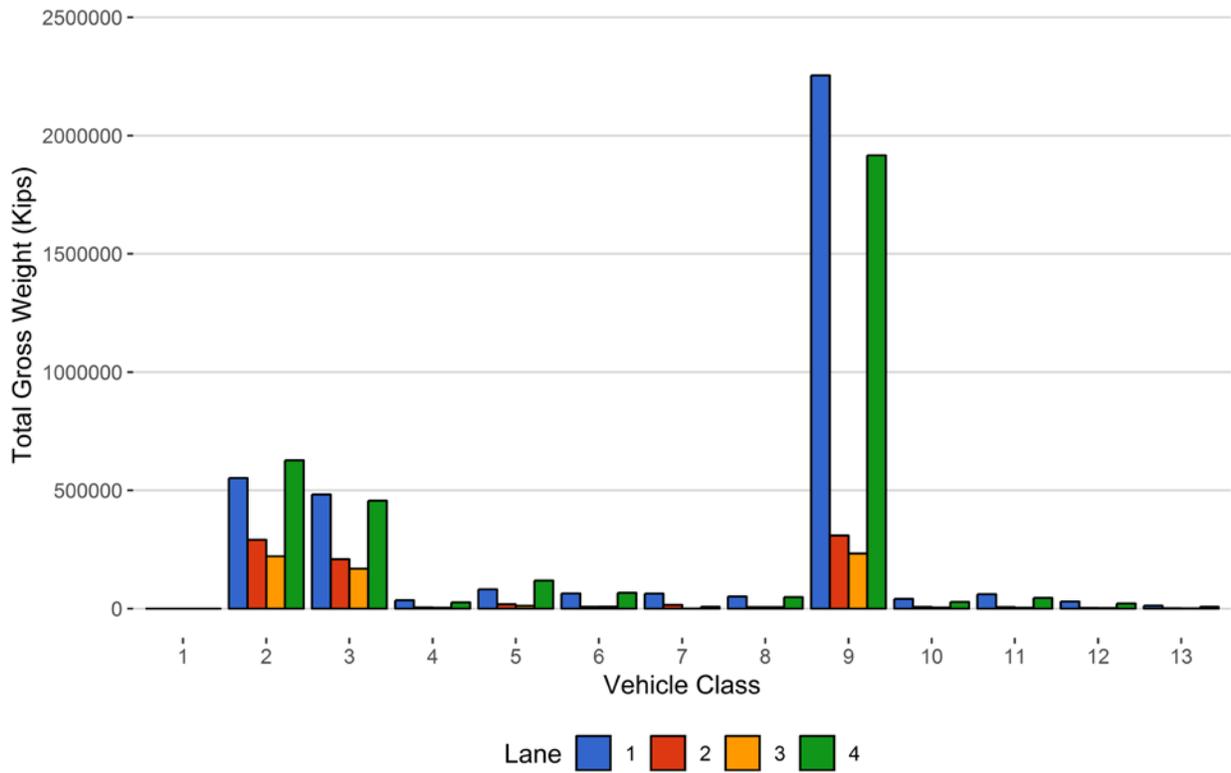


Figure 11 - Total Gross Vehicle Weight t

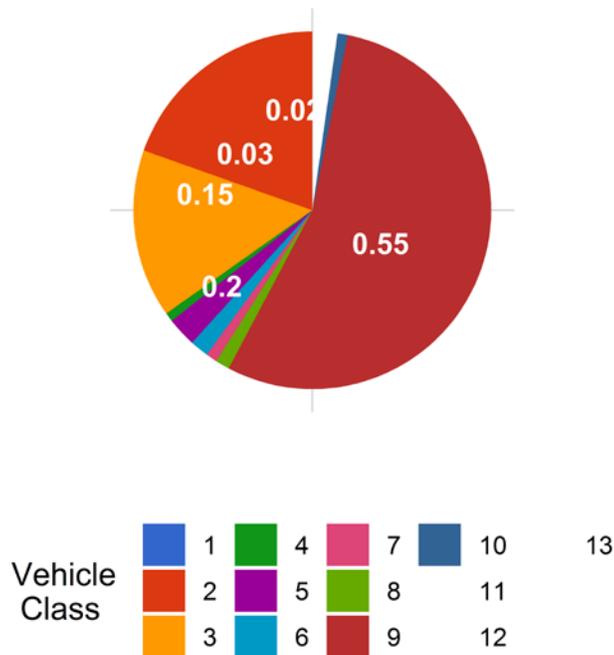


Figure 12 - Total ESALs by Class and Lane

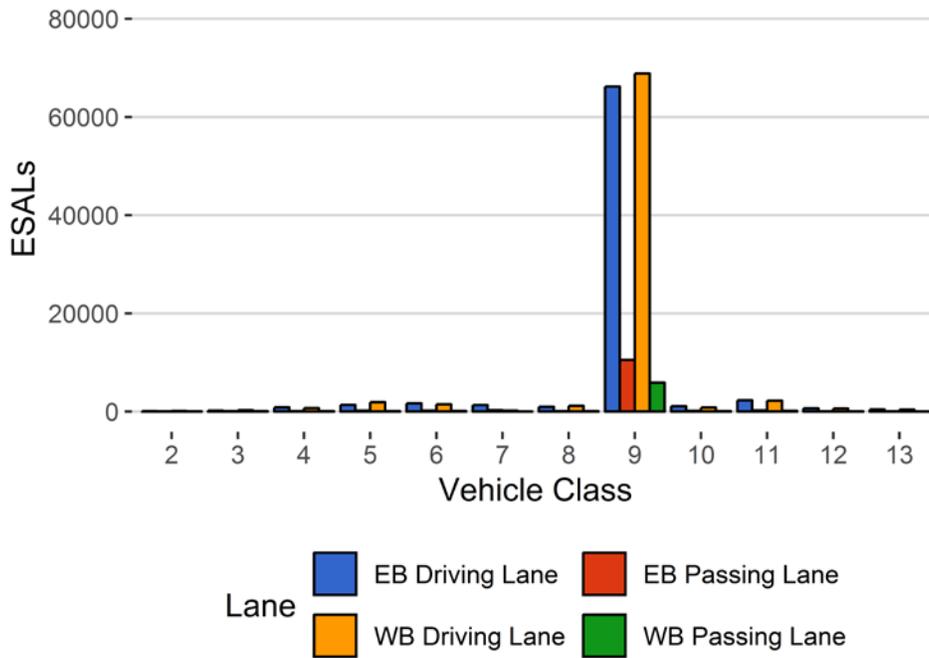


Figure 13 - ESALs by Class

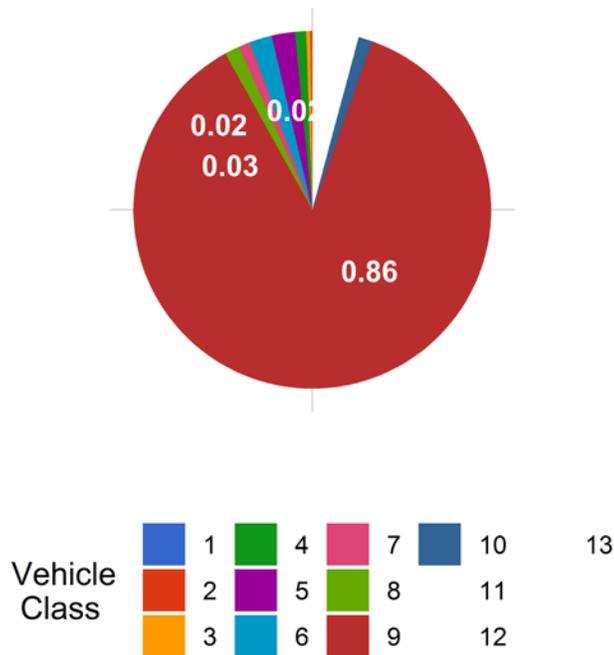


Table 1 Class 9 Front Axle Weight by Lane

<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

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	1	19	0	0	0
2	12676	380283	55.4	0	0
3	6737	202115	29.4	0	0
4	77	2302	0.3	339	1
5	527	15813	2.3	442	1.3
6	149	4475	0.7	515	1.5
7	42	1270	0.2	761	2.2
8	104	3108	0.5	276	0.8
9	2441	73230	10.7	30654	88.4
10	41	1242	0.2	557	1.6
11	57	1711	0.2	707	2
12	27	824	0.1	266	0.8
13	7	211	0	166	0.5
TOTAL	22887	686604	100	34683	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>
2018-11-16	Friday	01:15:25	9	WB	4	157.94
2018-11-28	Wednesday	00:13:03	10	EB	1	146.57
2018-11-16	Friday	13:53:25	10	WB	4	143.31
2018-11-08	Thursday	14:55:36	9	WB	4	140.94
2018-11-10	Saturday	08:02:34	10	WB	4	138.27
2018-11-17	Saturday	10:00:52	9	WB	4	134.86
2018-11-29	Thursday	06:24:03	9	WB	4	134.38
2018-11-03	Saturday	20:03:07	10	WB	4	133.83
2018-11-14	Wednesday	06:27:51	9	WB	4	133.81
2018-11-30	Friday	08:26:13	9	WB	4	133.15

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	1265	89	7	39199	1169	10779
5	EB	8	6425	308	4.8	96868	2211	23966
6	EB	19	2022	110	5.4	69310	1953	16491
7	EB	11.5	1095	0	0	79234	0	33320
8	EB	31	1536	417	27.1	47712	9174	6511
9	EB	33	37912	1177	3.1	2528908	34796	658326
10	EB	33.5	692	128	18.5	44472	3273	12789
11	EB	36.5	992	7	0.7	66905	215	15476
12	EB	36.5	471	5	1.1	32641	153	7816
13	EB	31.5	131	0	0	13606	0	4740
TOTAL	****	****	52541	2241	****	3018853	****	790215
<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	924	41	4.4	29429	550	8092
5	WB	8	8614	109	1.3	129499	800	30730
6	WB	19	2234	38	1.7	74470	668	16373
7	WB	11.5	113	0	0	8072	0	3386
8	WB	31	1420	361	25.4	46684	7677	6928
9	WB	33	31732	2017	6.4	2088570	60766	553987
10	WB	33.5	489	96	19.6	29594	2432	8214
11	WB	36.5	635	1	0.2	48714	32	12786
12	WB	36.5	313	1	0.3	24112	25	6362
13	WB	31.5	70	0	0	8558	0	3177
TOTAL	****	****	46544	2664	****	2487701	****	650035
GRAND TOTAL	****	****	99085	4905	127	5506554	125894	1440250

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	11	1	1	3	16	0
2	551764	290949	221007	626558	1690277	19.6
3	482218	208605	168774	455799	1315397	15.2
4	35169	5199	3778	26200	70346	0.8
5	80895	18185	11496	118804	229379	2.7
6	63868	7395	8256	66881	146401	1.7
7	63692	15541	277	7795	87305	1
8	50910	5975	6095	48266	111246	1.3
9	2254763	308941	232683	1916653	4713040	54.6
10	41089	6656	4301	27725	79771	0.9
11	60747	6372	3777	44969	115865	1.3
12	29721	3072	2480	21658	56931	0.7
13	12109	1497	918	7640	22164	0.3
TOTAL	3726955	878389	663843	3368951	8638138	100
GVW/LANE	43.15	10.17	7.69	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	0.0526
2	77	50	41	145	312	0.18	0.0018
3	203	96	79	274	651	0.37	0.0068
4	888	103	76	720	1786	1.02	1.63
5	1376	225	110	1937	3648	2.08	0.49
6	1705	226	128	1506	3565	2.04	1.67
7	1350	280	6	206	1842	1.05	3.04
8	1000	106	86	1169	2361	1.35	1.6
9	66179	10536	5912	68838	151465	86.47	4.35
10	1116	191	89	826	2222	1.27	3.74
11	2299	234	165	2257	4955	2.83	6.06
12	666	70	51	624	1412	0.81	3.56
13	463	52	27	399	940	0.54	8.85
TOTAL	77320	12167	6770	78901	175158	100	35
ESALS/LANE	44.1	6.9	3.9	45	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>
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
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
TOTAL	8247821	-	-	7121653	-	1126168	-	-	-
AVERAGE	687318	22569	3081	593471	86	93847	14	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>
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
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
TOTAL	418418	144361	80017	793760	1436555	-	-	-
AVERAGE	34868	12030	6668	66147	119713	83	17	35

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>
Dec 2017	1766773	670355	515044	1948965	4901137
Jan 2018	1548618	606656	457410	2455684	5068368
Feb 2018	2931469	759060	586267	3650504	7927301
Mar 2018	2785677	692032	555620	3520002	7553332
Apr 2018	2870338	936643	1392451	3125714	8325147
May 2018	2735684	971481	814055	4101668	8622887
Jun 2018	2329986	1486733	800733	4211161	8828613
Jul 2018	2592130	1058321	848141	4398049	8896640
Aug 2018	1826437	941145	710711	4047287	7525580
Sep 2018	3500799	936082	485884	4182310	9105075
Oct 2018	3744102	880532	665172	3400616	8690423
Nov 2018	2602727	725139	571128	1034431	4933426
TOTAL	31234740	10664180	8402618	40076392	90377930
AVERAGE	2602895	888682	700218	3339699	7531494

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>
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
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
TOTAL	265970	-	-	86305	8161
AVERAGE	22164.2	3.4	23.4	7192.1	680.1

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>
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
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
TOTAL	5838175	7544531	13382706	-	-
AVERAGE	486514.6	628710.9	1115225.5	44.1	55.9