

APRIL 2018



WIM #33  
US 212, MP 78.5  
OLIVIA, MN

MONTHLY  
REPORT



*Your Destination...Our Priority*



## WIM Site Location

WIM #33 is located on US 212 near Olivia in Renville county.

## System Operation

WIM #33 was operational for the entire month of April 2018. Volume was computed using all monthly data.

## System Calibration

WIM #33 was most recently calibrated on 2015-06-17. Table 1 summarizes the front axle weights of class 9s by lane <sup>1</sup>. 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 <sup>2</sup>. 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: 142113 | Passenger Vehicles: 117010 | Heavy Commercial Vehicles: 25103

Monthly Average Daily Traffic (MADT): 4737 | Monthly Heavy Commercial Average Daily Traffic (MHCADT): 837

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 Saturdays. WB vehicles typically reached highest volume levels on Fridays, 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 13's.

## Overweight HCVs

**Volume trends.** Of a total of 25103 HCVs, 7647 of them were overweight<sup>3</sup>. These overweight HCVs contributed to 5.5% of total monthly volume, and 30.8% of total monthly HCV volume. EB overweight vehicles typically reached highest numbers on Wednesdays, with lowest volumes reported on Saturdays. WB overweight vehicles tended to reach highest volumes on Thursdays, with lowest volumes reported on Sundays. See Figure 3 . The top two overweight violators by class were the class 13 and class 9 vehicles . Overall, overweight vehicles tended to reach peak volume concentrations during typical business hours, with 85.9% 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 December.

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<sup>4</sup>.

Using normal load limits ,232 EB vehicles exceeded 88,000 pounds (196 vehicles were Class 13's; 30 vehicles were Class 10's). Of vehicles traveling WB,

4594 EB vehicles exceeded 88,000 pounds (4504 vehicles were Class 13's; 87 vehicles were Class 10's). Refer to Table 3 for the Top 10 highest recorded GVWs from Classes 9 and 10 from April 2018.

**Loaded vs. Unloaded HCVs.** Figure 10 shows the GVW distributions of Class 9s and 10s in April 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 fully\_loaded class 10 vehicles.

**Freight Totals.** A total of 351391 tons of freight was recorded to have crossed the WIM. More freight was shipped WB (72.6%) than EB (27.4%). See Table 4 and Figure 11 for more freight information.

## Infrastructure Considerations

**Bridge.** Bridge No. 6299 (a box culvert) is approximately 13.4 miles east of WIM #33, and Bridge No. 96640 (a box culvert) is 2.5 miles west of WIM #33. WIM #33 recorded a total of 142113 vehicles with a combined GVW of 1954364 kips (1 kip = 1,000 pounds = 0.5 tons) in April 2018. See Table 5 and Figures 12-13 for GVW information by vehicle class and lane.

**Pavement Design.** A total of 22446 equivalent single axle loads (ESALs) passed over the pavement at this site. Approximately 63.5% of all ESALs were recorded WB while 36.5% was observed EB. In particular, 50% of all ESALs were generated by the Class 9's (Class 9's were also responsible for generating 33% 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).

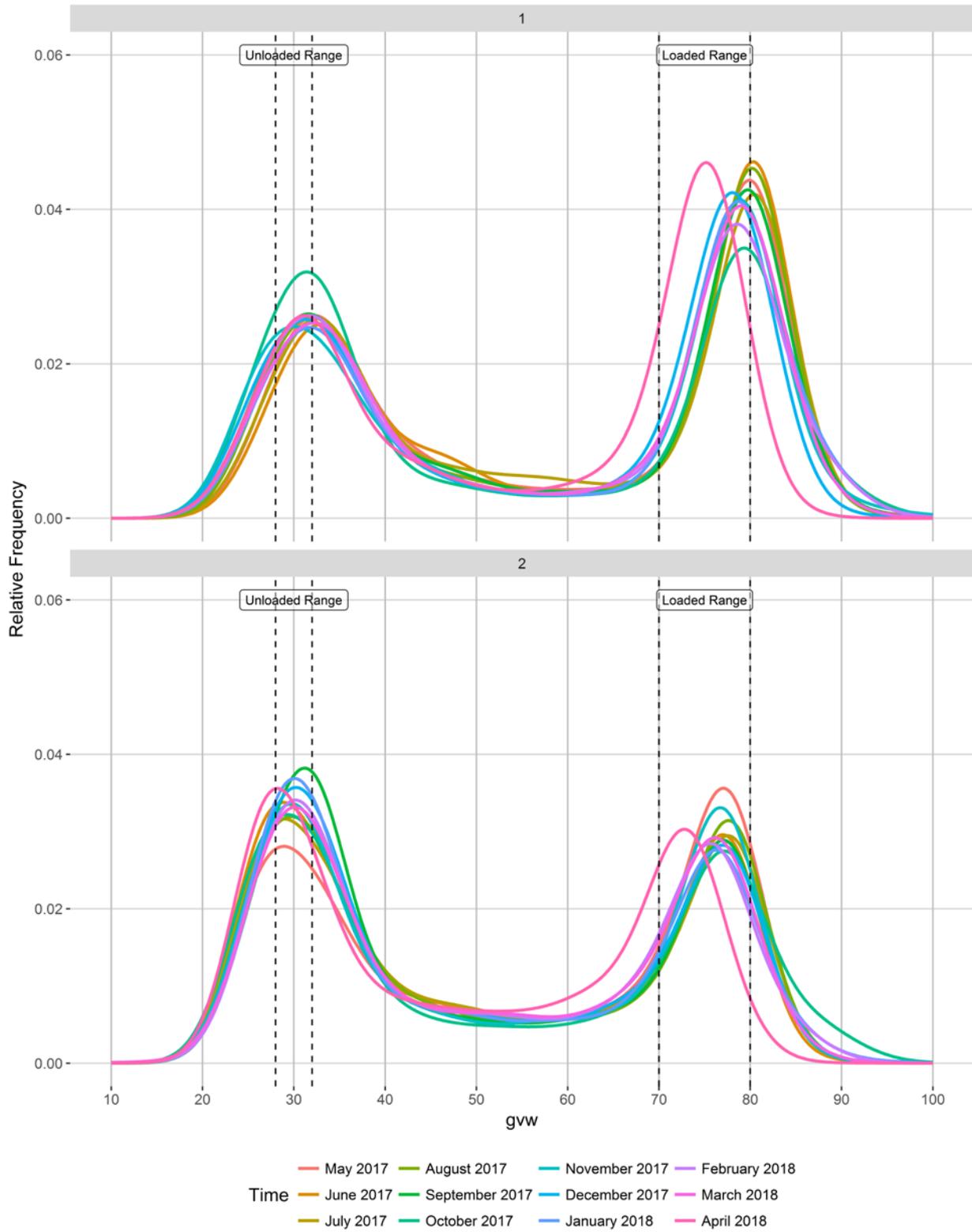
*WIM monthly reports can be found at: <http://www.dot.state.mn.us/traffic/data/reports-monthly-wim.html>*

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>

- <sup>1</sup> 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
- <sup>2</sup> 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.
- <sup>3</sup> 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](http://www.mrr.dot.state.mn.us/research/seasonal_load_limits/sllindex.asp)
- <sup>4</sup> 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.

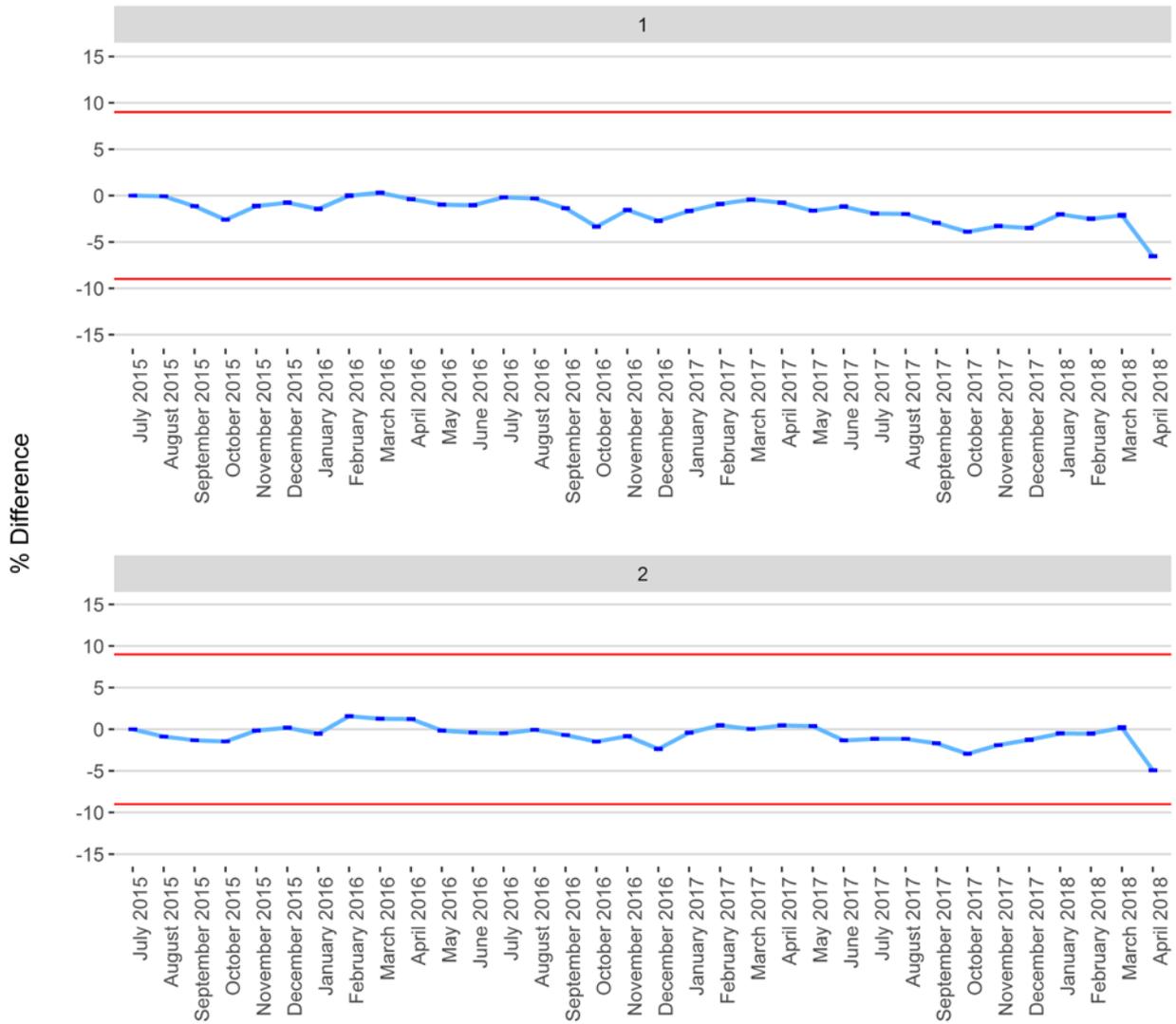
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Figure 1 - Monthly Class 9 GVW Histogram



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

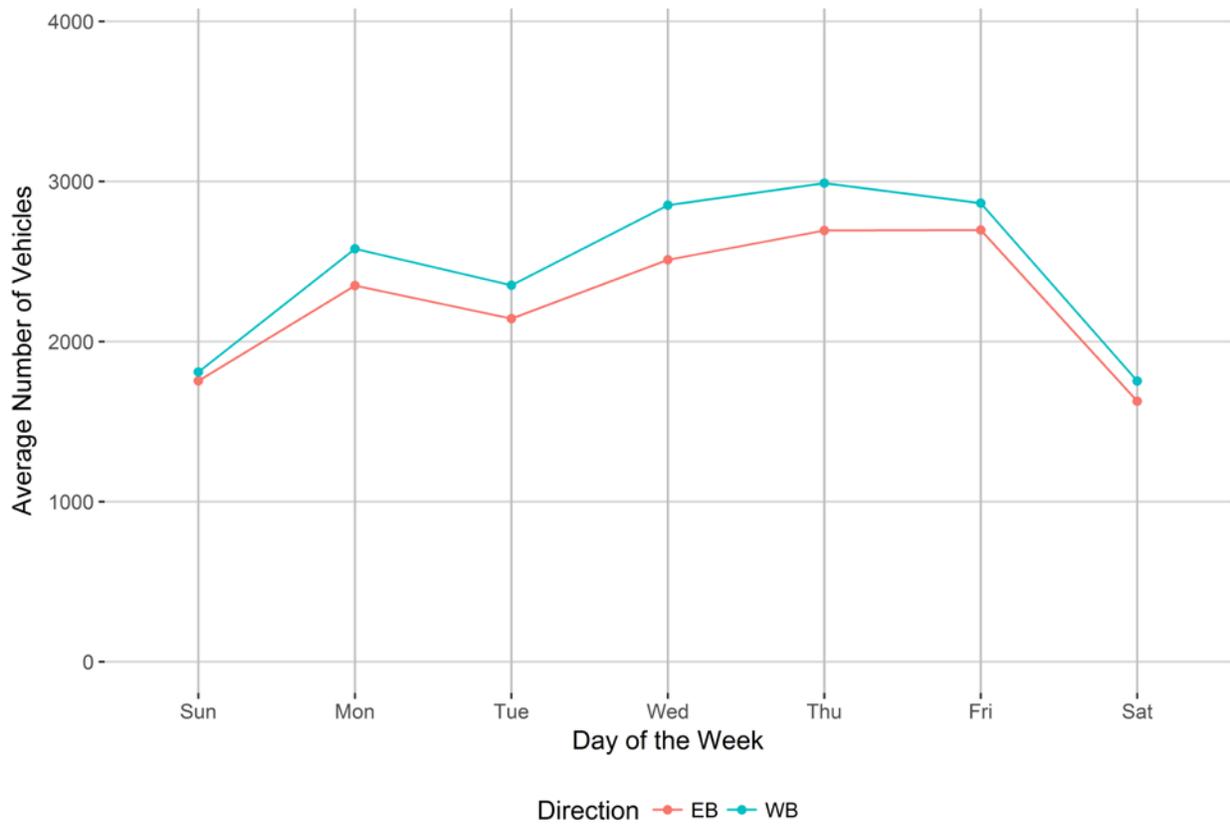


Figure 3 - Average Overweight Vehicle Volume vs. Day of the Week

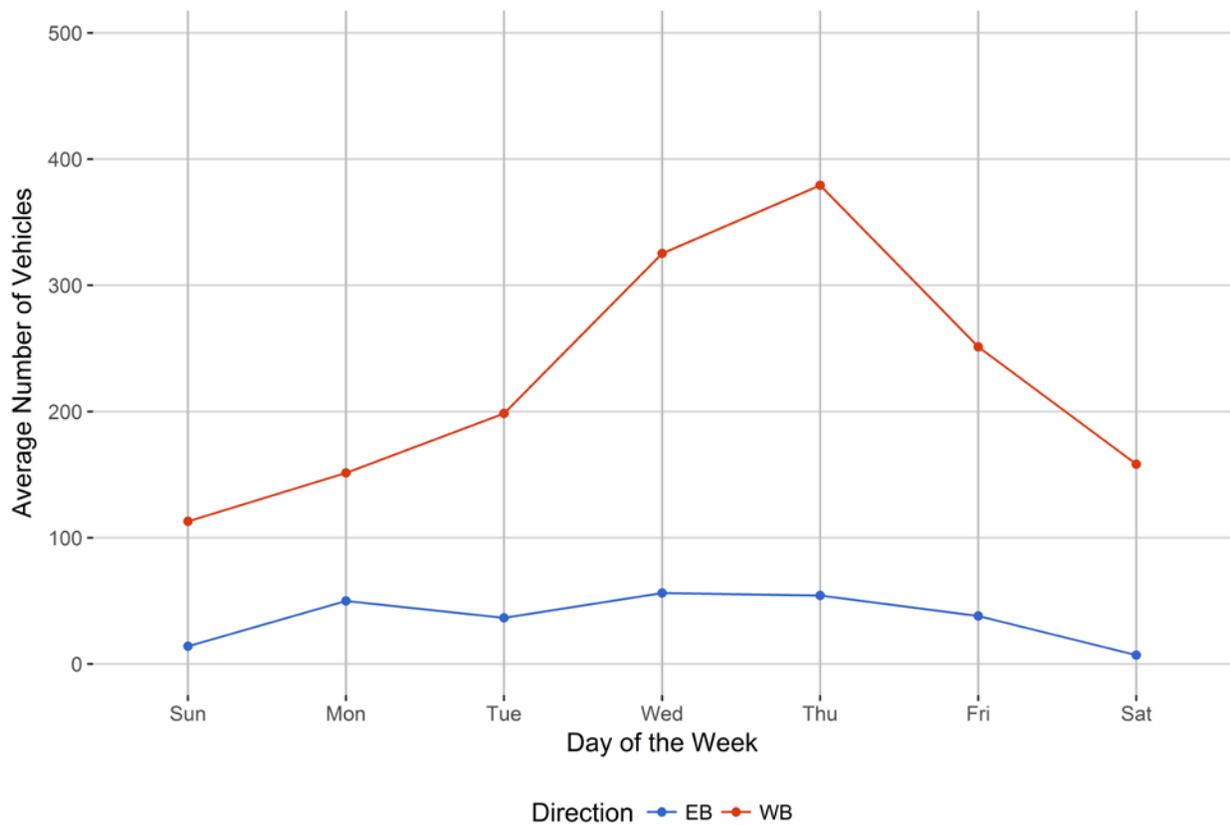


Figure 4 - Passenger Vehicles vs. Hour of the Day

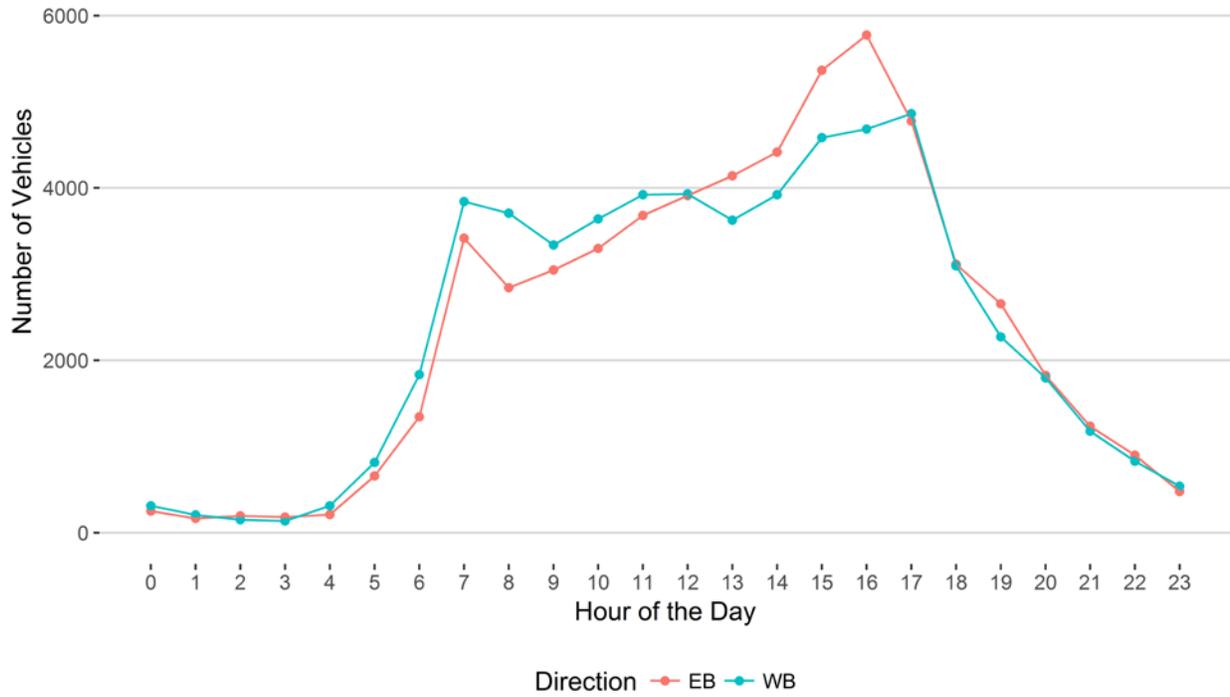


Figure 5 - Heavy Commercial Vehicles vs. Hour of the Day

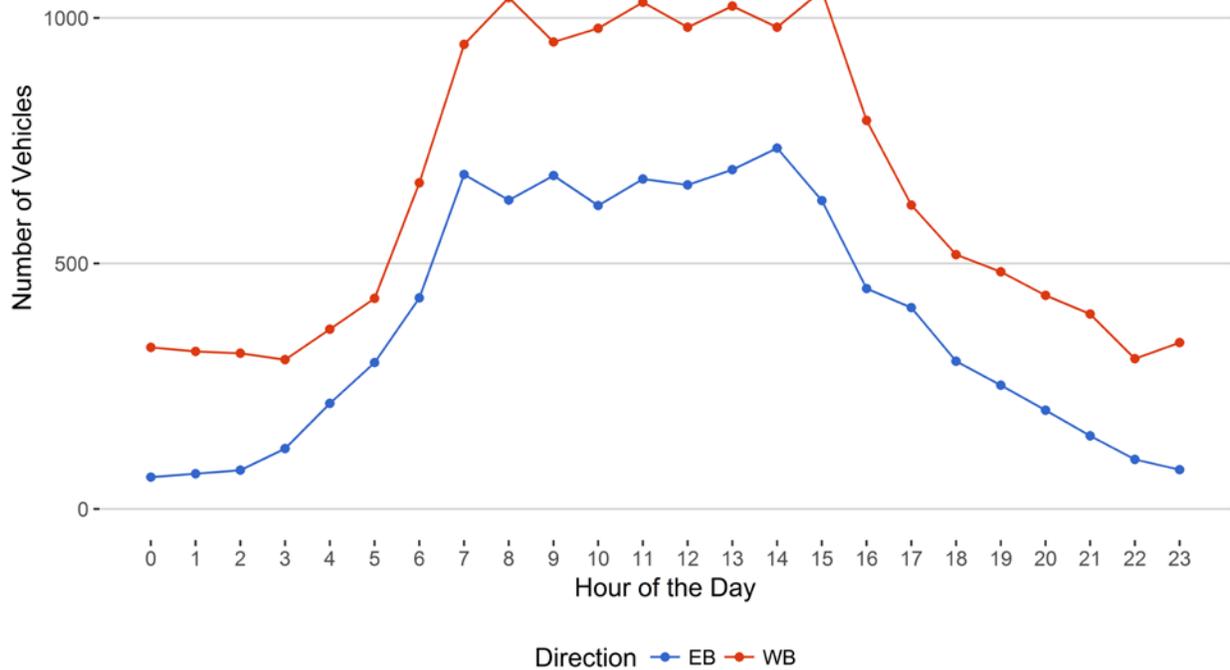




Figure 7 - Overweight Vehicles by Direction  
Hour of the Day

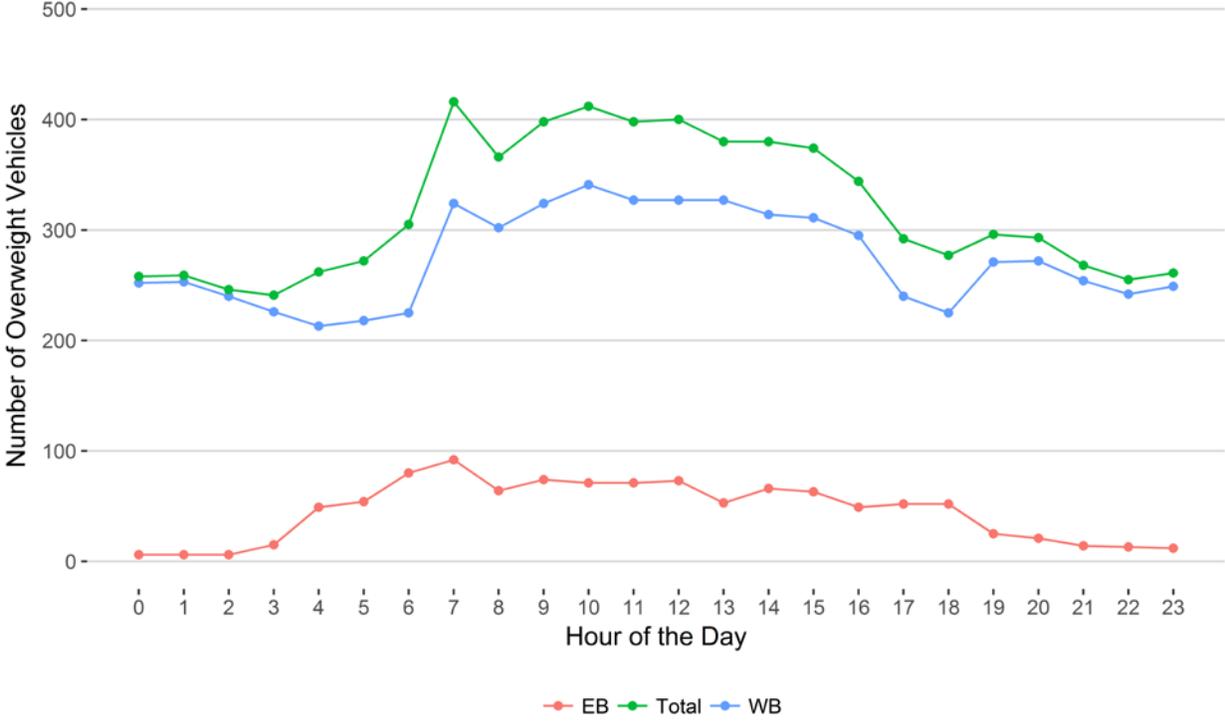
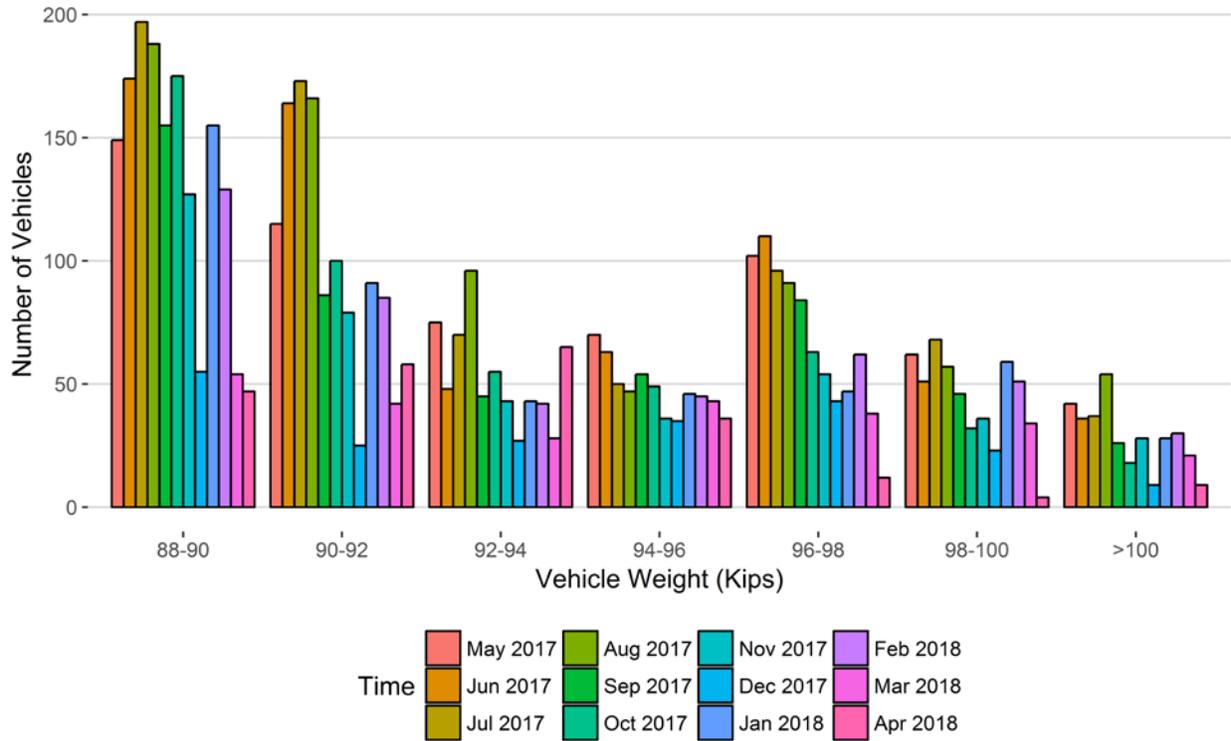
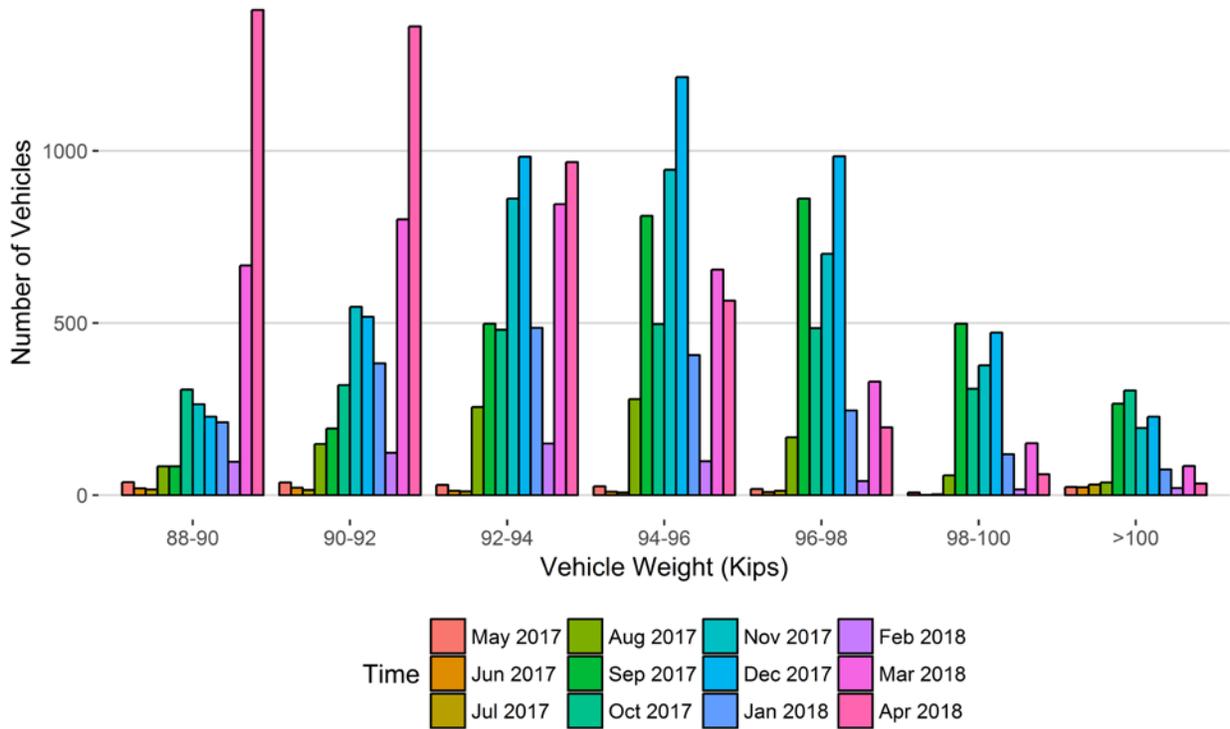


Figure 8 - Histogram of EB Vehicles Over 88,000 Pounds for Current Month



Vehicle Weights (Kips)	May 2017	Jun 2017	Jul 2017	Aug 2017	Sep 2017	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018
88-90	149	174	197	188	155	175	127	55	155	129	54	47
90-92	115	164	173	166	86	100	79	25	91	85	42	58
92-94	75	48	70	96	45	55	43	27	43	42	28	65
94-96	70	63	50	47	54	49	36	35	46	45	43	36
96-98	102	110	96	91	84	63	54	43	47	62	38	12
98-100	62	51	68	57	46	32	36	23	59	51	34	4
>100	42	36	37	54	26	18	28	9	28	30	21	9
Total	615	646	691	699	496	492	403	217	469	444	260	231

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



Vehicle Weights (Kips)	May 2017	Jun 2017	Jul 2017	Aug 2017	Sep 2017	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018
88-90	38	20	17	84	84	307	264	228	212	97	667	1409
90-92	37	22	15	149	194	320	547	518	383	123	801	1361
92-94	30	13	11	256	498	480	861	983	486	150	845	967
94-96	26	10	8	279	811	497	945	1214	407	99	655	565
96-98	18	9	13	168	861	485	701	984	246	41	330	197
98-100	8	1	3	58	498	309	377	472	119	17	151	61
>100	24	23	31	37	266	304	195	228	75	21	85	34
Total	181	98	98	1031	3212	2702	3890	4627	1928	548	3534	4594

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

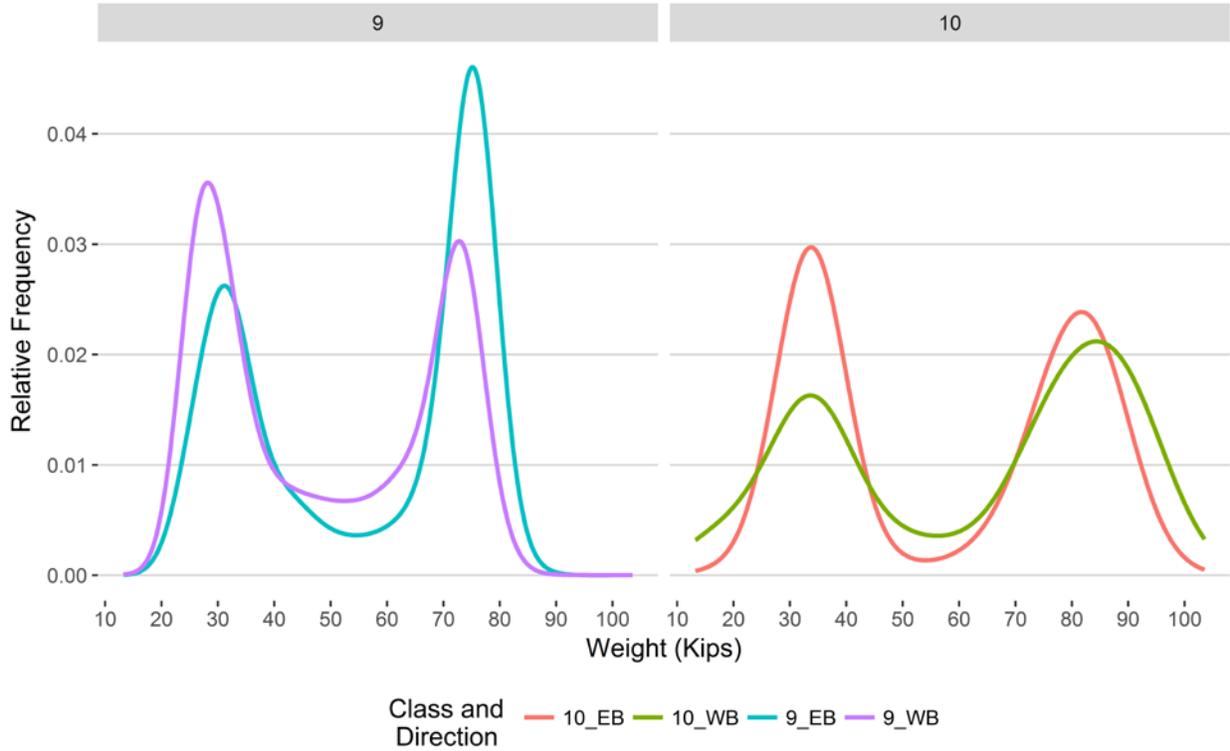


Figure 9 - Freight Percentage by Direction and Class

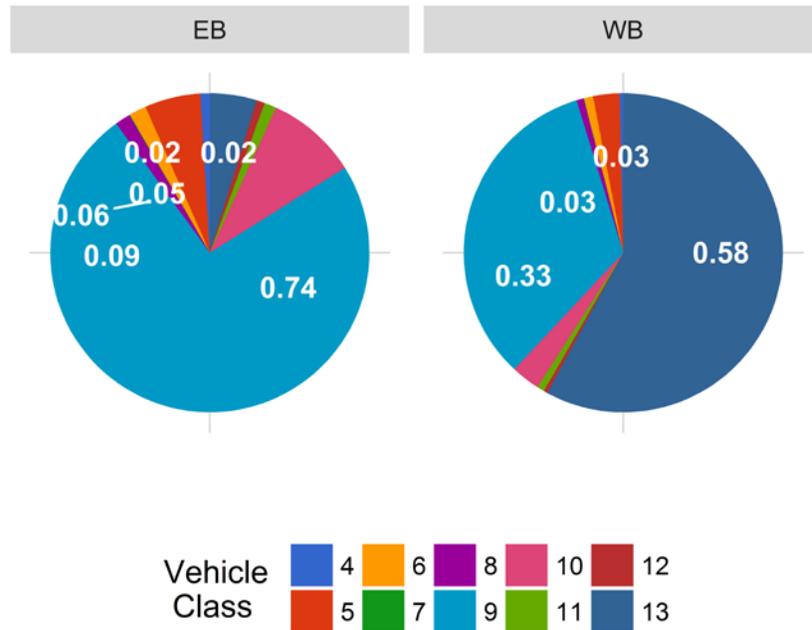


Figure 10 - Total Gross Vehicle Weight Percentage by Class and Lane

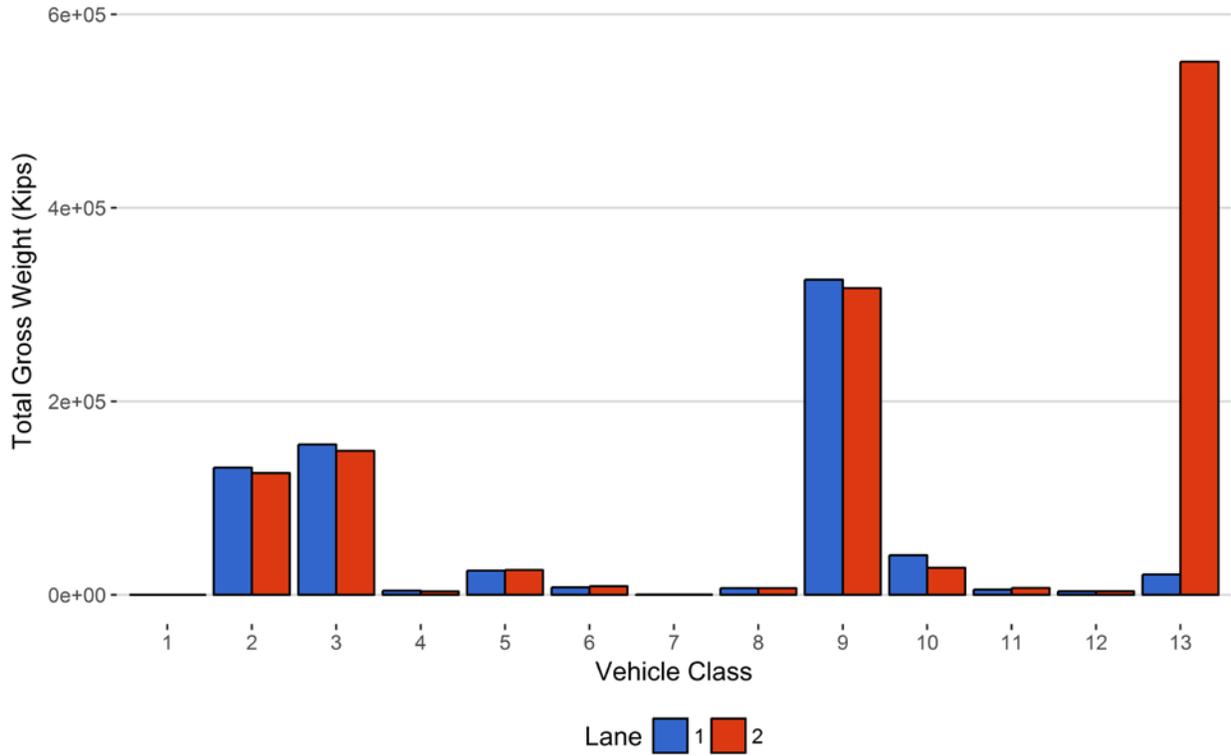


Figure 11 - Total Gross Vehicle Weight I

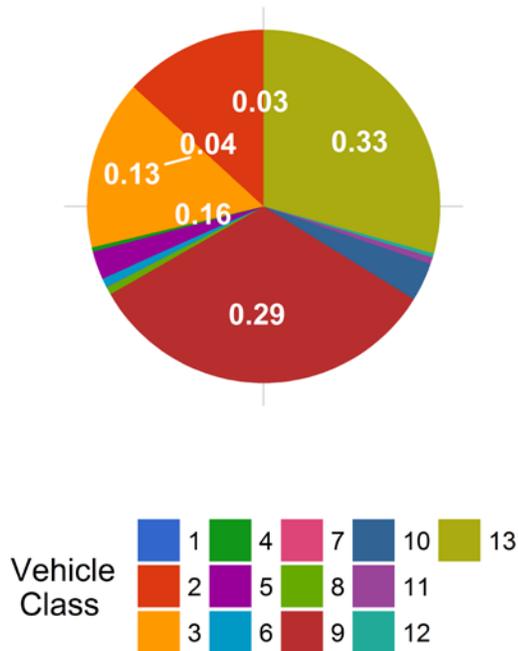


Figure 12 - Total ESALs by Class and Lane

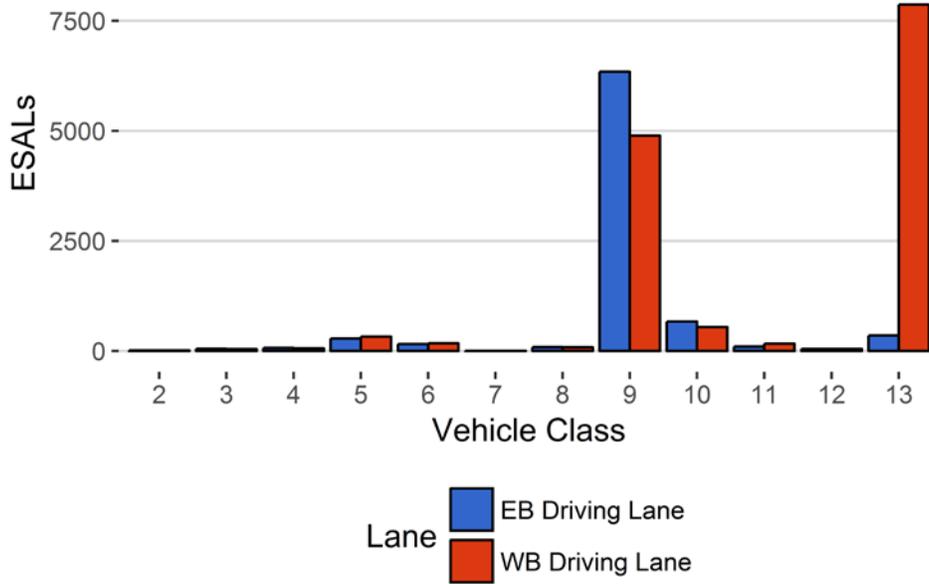
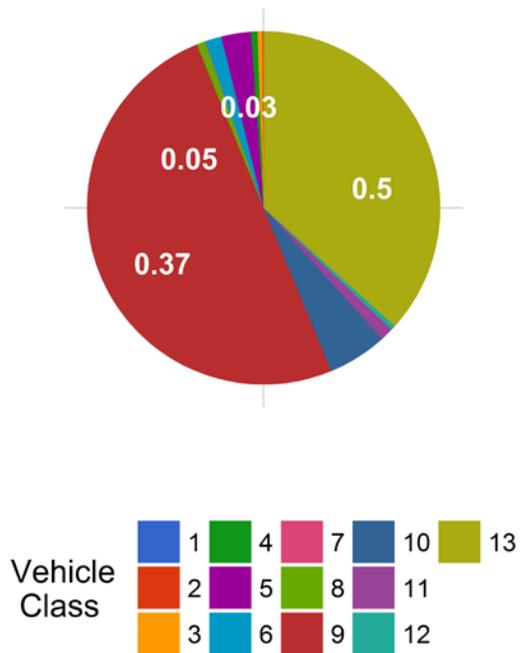


Figure 13 - ESALs by Class



**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>
July 2015	11.76	0.00	10.98	0.00
August 2015	11.75	-0.07	10.89	-0.88
September 2015	11.62	-1.13	10.84	-1.31
October 2015	11.45	-2.60	10.82	-1.46
November 2015	11.63	-1.12	10.97	-0.15
December 2015	11.67	-0.76	11.00	0.20
January 2016	11.59	-1.44	10.92	-0.53
February 2016	11.76	-0.01	11.16	1.58
March 2016	11.79	0.31	11.12	1.28
April 2016	11.71	-0.37	11.12	1.23
May 2016	11.64	-0.97	10.97	-0.15
June 2016	11.64	-1.04	10.94	-0.39
July 2016	11.74	-0.19	10.93	-0.49
August 2016	11.72	-0.31	10.98	-0.05
September 2016	11.60	-1.36	10.91	-0.69
October 2016	11.36	-3.35	10.82	-1.48
November 2016	11.58	-1.55	10.89	-0.83
December 2016	11.44	-2.72	10.72	-2.35
January 2017	11.56	-1.65	10.94	-0.41
February 2017	11.65	-0.91	11.03	0.47
March 2017	11.71	-0.43	10.99	0.03
April 2017	11.67	-0.77	11.03	0.46
May 2017	11.57	-1.63	11.02	0.37
June 2017	11.62	-1.18	10.84	-1.33
July 2017	11.53	-1.94	10.86	-1.15
August 2017	11.53	-1.98	10.86	-1.15
September 2017	11.41	-2.94	10.80	-1.68
October 2017	11.30	-3.90	10.66	-2.94
November 2017	11.37	-3.28	10.77	-1.89
December 2017	11.35	-3.49	10.84	-1.26
January 2018	11.52	-2.02	10.93	-0.49
February 2018	11.46	-2.50	10.93	-0.52
March 2018	11.51	-2.12	11.00	0.19
April 2018	10.99	-6.53	10.44	-4.92

**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	0	12	0	0	0
2	2161	64835	45.6	0	0
3	1739	52163	36.7	0	0
4	9	268	0.2	10	0.1
5	117	3517	2.5	34	0.4
6	19	568	0.4	54	0.7
7	0	14	0	0	0
8	15	462	0.3	24	0.3
9	412	12351	8.7	862	11.3
10	39	1161	0.8	387	5.1
11	8	226	0.2	5	0.1
12	4	116	0.1	20	0.3
13	214	6420	4.5	6251	81.7
<b>TOTAL</b>	<b>4737</b>	<b>142113</b>	<b>100</b>	<b>7647</b>	<b>100</b>

**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>
2018-04-01	Sunday	18:27:57	9	EB	1	103.56
2018-04-15	Sunday	20:58:42	10	WB	2	102.48
2018-04-15	Sunday	21:14:34	9	WB	2	101.9
2018-04-06	Friday	14:16:32	10	WB	2	99.65
2018-04-26	Thursday	17:24:12	10	WB	2	98.65
2018-04-25	Wednesday	09:46:57	10	WB	2	98.41
2018-04-23	Monday	23:32:22	10	WB	2	96.85
2018-04-02	Monday	08:16:26	10	EB	1	96.46
2018-04-04	Wednesday	21:24:09	10	EB	1	96.25
2018-04-17	Tuesday	22:15:48	10	WB	2	96.17

**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	149	24	16.1	3918	304	1022
5	EB	8	1710	225	13.2	23282	1634	5701
6	EB	19	266	65	24.4	6592	1121	1386
7	EB	11.5	7	0	0	310	0	115
8	EB	31	228	138	60.5	3499	3302	355
9	EB	33	5759	1405	24.4	285064	40718	70691
10	EB	33.5	703	161	22.9	35708	5078	8776
11	EB	36.5	108	27	25	4395	947	719
12	EB	36.5	60	1	1.7	3689	36	768
13	EB	31.5	228	0	0	20903	0	6860
<b>TOTAL</b>	<b>****</b>	<b>****</b>	<b>9218</b>	<b>2046</b>	<b>****</b>	<b>387361</b>	<b>****</b>	<b>96393</b>
<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	116	18	15.5	3277	221	903
5	WB	8	1768	279	15.8	23546	2023	5817
6	WB	19	296	72	24.3	7604	1213	1674
7	WB	11.5	7	0	0	291	0	105
8	WB	31	229	143	62.4	3343	3555	338
9	WB	33	6456	2368	36.7	250943	65968	58019
10	WB	33.5	445	86	19.3	25542	2302	6758
11	WB	36.5	116	0	0	7002	0	1384
12	WB	36.5	55	0	0	3657	0	825
13	WB	31.5	6121	0	0	551161	0	179175
<b>TOTAL</b>	<b>****</b>	<b>****</b>	<b>15609</b>	<b>2966</b>	<b>****</b>	<b>876364</b>	<b>****</b>	<b>254998</b>
<b>GRAND TOTAL</b>	<b>****</b>	<b>****</b>	<b>24827</b>	<b>5012</b>	<b>362</b>	<b>1263725</b>	<b>128421</b>	<b>351391</b>

**Table 5 Gross Vehicle Weight by Class and Lane**

<i>Vehicle Class</i>	<i>EB</i>	<i>WB</i>	<i>Total</i>	<i>Percentage</i>
1	6	11	17	0
2	131450	125850	257300	13.2
3	155295	148808	304103	15.6
4	4223	3498	7720	0.4
5	24916	25568	50484	2.6
6	7713	8817	16530	0.8
7	310	291	601	0
8	6801	6898	13699	0.7
9	325782	316911	642693	32.9
10	40786	27844	68629	3.5
11	5342	7002	12344	0.6
12	3725	3657	7382	0.4
13	20903	551161	572064	29.3
<b>TOTAL</b>	<b>727250</b>	<b>1226315</b>	<b>1953566</b>	<b>100</b>
<b>GVW/LANE</b>	<b>37.23</b>	<b>62.77</b>	<b>100</b>	<b>0.01</b>

**Table 6 ESALs by Class and Lane and Flexible ESAL Factors**

<i>Vehicle Class</i>	<i>EB</i>	<i>WB</i>	<i>Total</i>	<i>Percentage</i>	<i>Flexible ESAL Factor</i>
1	0	0	0	0	0.0769
2	16	14	30	0.1	0.001
3	52	43	95	0.4	0.0038
4	70	63	132	0.6	1
5	282	325	607	2.7	0.35
6	160	175	335	1.5	1.19
7	7	6	13	0.1	1.58
8	87	85	172	0.8	0.76
9	6342	4894	11236	50.1	1.84
10	669	546	1214	5.4	2.11
11	103	168	271	1.2	2.36
12	50	48	98	0.4	1.64
13	355	7868	8224	36.7	2.59
<b>TOTAL</b>	<b>8193</b>	<b>14236</b>	<b>22428</b>	<b>100</b>	<b>16</b>
<b>ESALS/LANE</b>	<b>36.5</b>	<b>63.5</b>	<b>100</b>	<b>--</b>	<b>--</b>

**Table 7 Site Summary: Volume and Vehicle Class**

<i>Month</i>	<i>Total Volume</i>	<i>Monthly ADT</i>	<i>Monthly HCADT</i>	<i>Passenger Vehicles</i>	<i>Passenger Vehicles %</i>	<i>Heavy Commercial Vehicles</i>	<i>Heavy Commercial Vehicles %</i>
May 2017	162226	5233	736	139415	85.9	22811.5	14.1
Jun 2017	169392	5646	808	145148	85.7	24243.7	14.3
Jul 2017	175467	5660	756	152027	86.6	23439.6	13.4
Aug 2017	184728	5959	907	156600	84.8	28127.6	15.2
Sep 2017	174582	5819	1022	143917	82.4	30665.3	17.6
Oct 2017	168933	5450	991	138200	81.8	30732.8	18.2
Nov 2017	157271	5242	946	128891	82	28380.1	18
Dec 2017	151645	4892	863	124901	82.4	26744.2	17.6
Jan 2018	134369	4334	714	112230	83.5	22139.3	16.5
Feb 2018	121042	4323	646	102947	85.1	18095.1	14.9
Mar 2018	148999	4806	935	120016	80.5	28983	19.5
Apr 2018	142113	4737	837	117010	82.3	25103.3	17.7
<b>TOTAL</b>	<b>1890767</b>	--	--	<b>1581302</b>	--	<b>309465</b>	--
<b>AVERAGE</b>	<b>157564</b>	<b>5175</b>	<b>847</b>	<b>131775</b>	<b>84</b>	<b>25789</b>	<b>16</b>

## ESALS

<i>Month</i>	<i>ESALS EB Driving Lane</i>	<i>ESALS WB Driving Lane</i>	<i>Total ESALS</i>	<i>Pavement Life Decrease Months</i>
May 2017	12391	9961	22351	13.3
Jun 2017	14427	8888	23315	12
Jul 2017	13642	9390	23032	15.7
Aug 2017	15767	12453	28221	13.5
Sep 2017	14359	14776	29134	4.4
Oct 2017	13340	16038	29378	10.4
Nov 2017	11998	15611	27609	7.5
Dec 2017	9912	14401	24312	6.4
Jan 2018	11044	10493	21537	13.7
Feb 2018	9442	7840	17282	15.9
Mar 2018	8342	12669	21011	17.3
Apr 2018	8199	14246	22446	3.3
<b>TOTAL</b>	<b>142862</b>	--	--	--
<b>AVERAGE</b>	<b>11905</b>	<b>12230</b>	<b>24136</b>	<b>11</b>

## Gross Vehicle Weight

<i>Month</i>	<i>GVW EB Driving Lane</i>	<i>GVW WB Driving Lane</i>	<i>Total GVW Kips</i>
May 2017	793221	873170	1666391
Jun 2017	682600	690756	1373356
Jul 2017	711950	939405	1651356
Aug 2017	727732	1226632	1954364
Sep 2017	904776	873200	1777976
Oct 2017	1004884	871882	1876766
Nov 2017	1000624	888551	1889175
Dec 2017	1106394	1067194	2173587
Jan 2018	1071249	1199149	2270398
Feb 2018	1012456	1200320	2212776
Mar 2018	927055	1192270	2119325
Apr 2018	890224	1132994	2023218
<b>TOTAL</b>	<b>10833164</b>	<b>12155524</b>	<b>22988688</b>
<b>AVERAGE</b>	<b>902764</b>	<b>1012960</b>	<b>1915724</b>

## 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>
May 2017	4889	3	21.5	797	137
Jun 2017	5047	3	20.9	746	113
Jul 2017	5248	3	22.5	792	142
Aug 2017	6914	3.8	24.7	1731	207
Sep 2017	8234	4.7	26.9	3710	837
Oct 2017	7755	4.6	25.3	3194	663
Nov 2017	8139	5.2	28.8	4294	637
Dec 2017	7745	5.2	29.1	4844	732
Jan 2018	5586	4.2	25.4	2397	281
Feb 2018	3644	3	20.2	992	119
Mar 2018	6820	6	30.5	3794	291
Apr 2018	7653	5.5	30.7	4826	109
<b>TOTAL</b>	<b>77674</b>	<b>--</b>	<b>--</b>	<b>32117</b>	<b>4268</b>
<b>AVERAGE</b>	<b>6472.8</b>	<b>4.3</b>	<b>25.5</b>	<b>2676.4</b>	<b>355.7</b>

## 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>
May 2017	128781	111767	240548	53.5	46.5
Jun 2017	149152	96741	245893	60.7	39.3
Jul 2017	140199	101769	241969	57.9	42.1
Aug 2017	161829	146070	307899	52.6	47.4
Sep 2017	147260	204769	352029	41.8	58.2
Oct 2017	130713	210740	341452	38.3	61.7
Nov 2017	120349	225464	345812	34.8	65.2
Dec 2017	100081	223681	323763	30.9	69.1
Jan 2018	111522	140745	252267	44.2	55.8
Feb 2018	94761	92652	187413	50.6	49.4
Mar 2018	82554	190642	273196	30.2	69.8
Apr 2018	96393	254998	351391	27.4	72.6
<b>TOTAL</b>	<b>1463593</b>	<b>2000037</b>	<b>3463631</b>	--	--
<b>AVERAGE</b>	<b>121966.1</b>	<b>166669.8</b>	<b>288635.9</b>	<b>43.6</b>	<b>56.4</b>