

MAY 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 May 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 except lane 1. 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: 783270 | Passenger Vehicles: 677254 | Heavy Commercial Vehicles: 106016

Monthly Average Daily Traffic (MADT): 25267 | Monthly Heavy Commercial Average Daily Traffic (MHCADT): 3420

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 106016 HCVs, 17774 of them were overweight³. These overweight HCVs contributed to 2.4% of total monthly volume, and 17.4% 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 9 and class 11 vehicles . Overall, overweight vehicles tended to reach peak volume concentrations during typical business hours, with 81% 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 January.

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 ,947 EB vehicles exceeded 88,000 pounds (853 vehicles were Class 9's; 40 vehicles were Class 10's). Of vehicles traveling WB,

2678 EB vehicles exceeded 88,000 pounds (2537 vehicles were Class 9's; 65 vehicles were Class 13's). Refer to Table 3 for the Top 10 highest recorded GVWs from Classes 9 and 10 from May 2018.

Loaded vs. Unloaded HCVs. Figure 10 shows the GVW distributions of Class 9s and 10s in May 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 1174845 tons of freight was recorded to have crossed the WIM. More freight was shipped WB (57.2%) than EB (42.8%). 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 783270 vehicles with a combined GVW of 8325147 kips (1 kip = 1,000 pounds = 0.5 tons) in May 2018. See Table 5 and Figures 12-13 for GVW information by vehicle class and lane.

Pavement Design. A total of 110836 equivalent single axle loads (ESALs) passed over the pavement at this site. Approximately 63.1% of all ESALs were recorded WB while 36.9% was observed EB. In particular, 87% of all ESALs were generated by the Class 9's (Class 9's were also responsible for generating 54% 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).

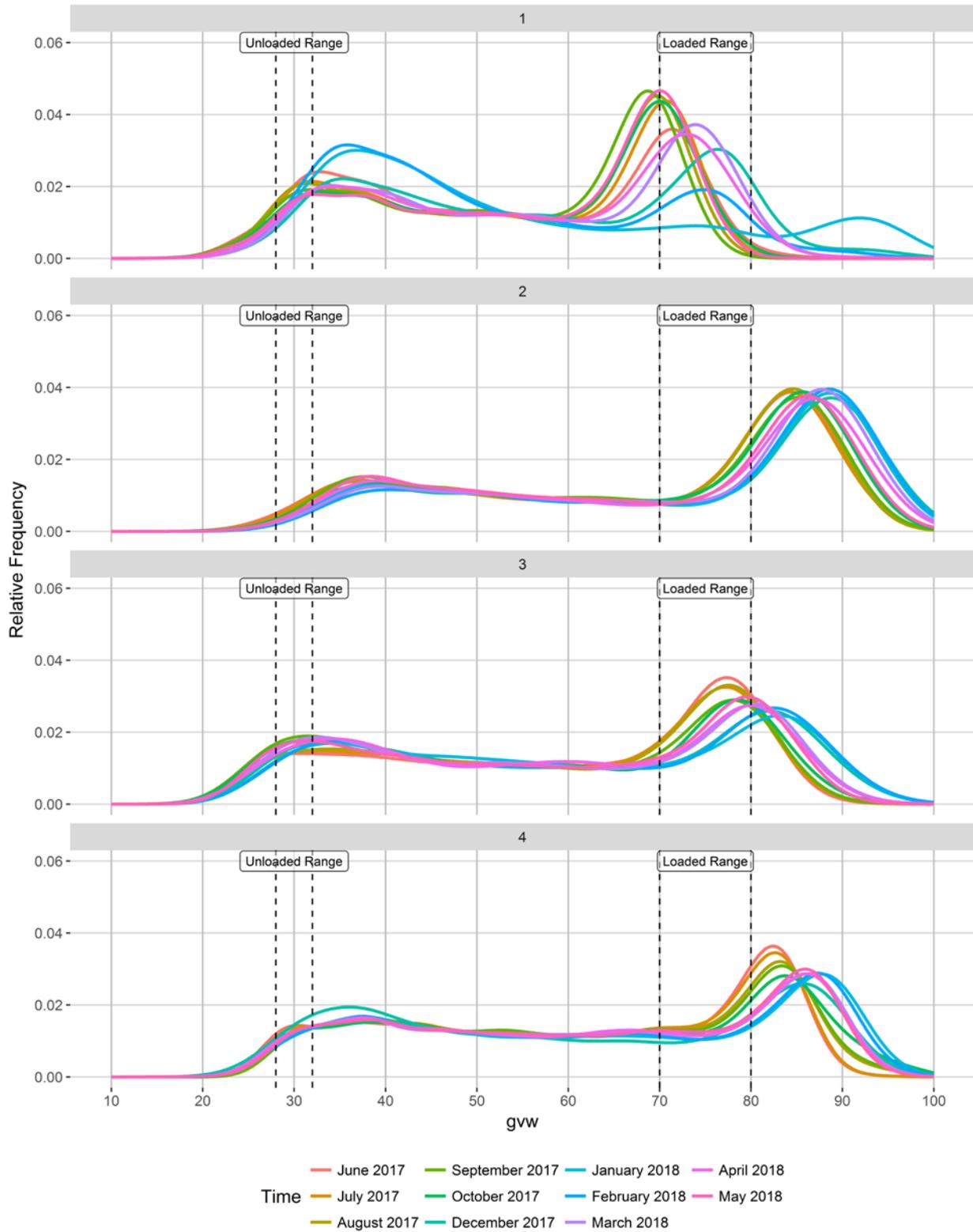
WIM monthly reports can be found at: <http://www.dot.state.mn.us/traffic/data/reports-monthly-wim.html>

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.

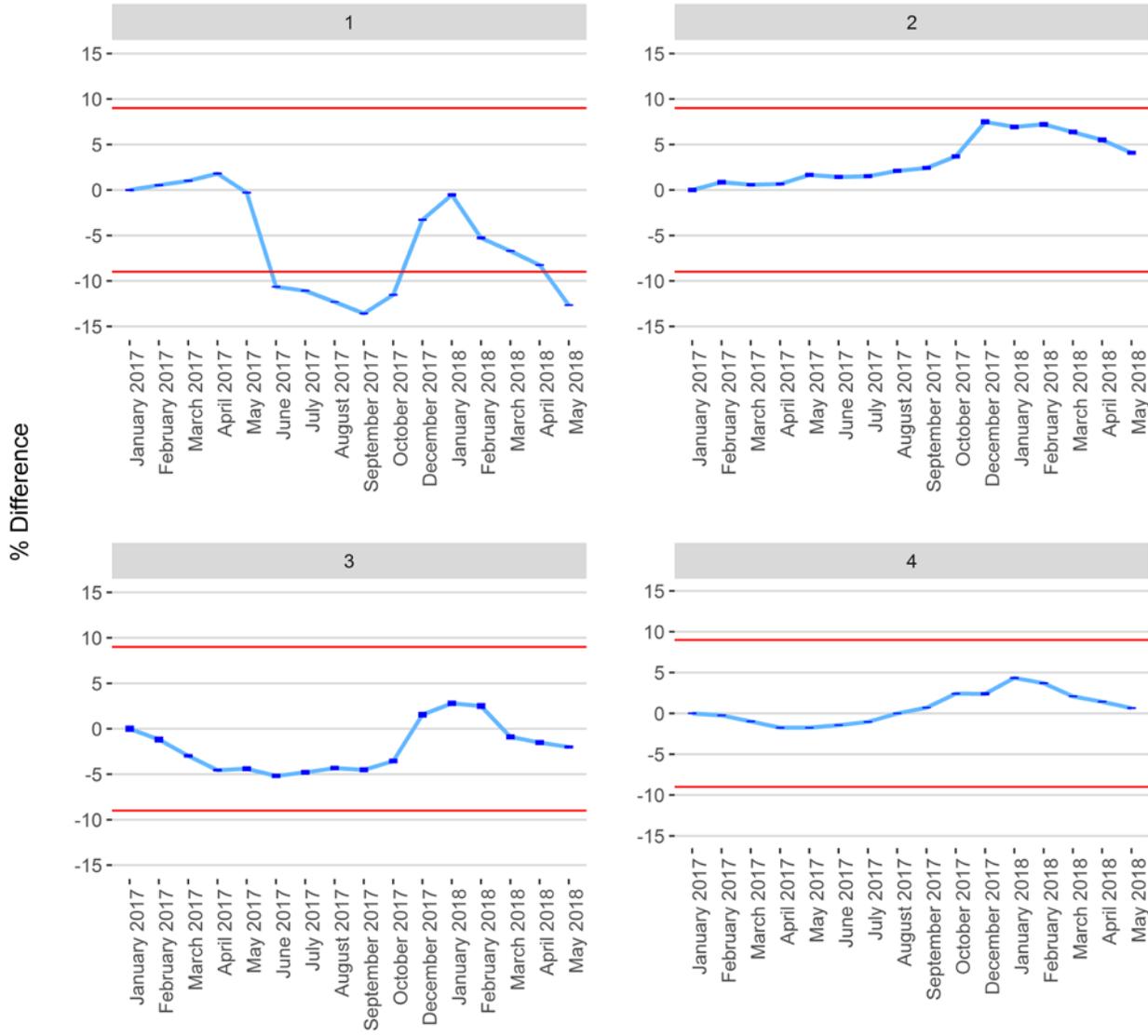
To request this document in an alternative format, please call 651-366-4718 or 1-800-657-3774, or email your request to ADArequest.dot@state.mn.us. Please request at least one week in advance.

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

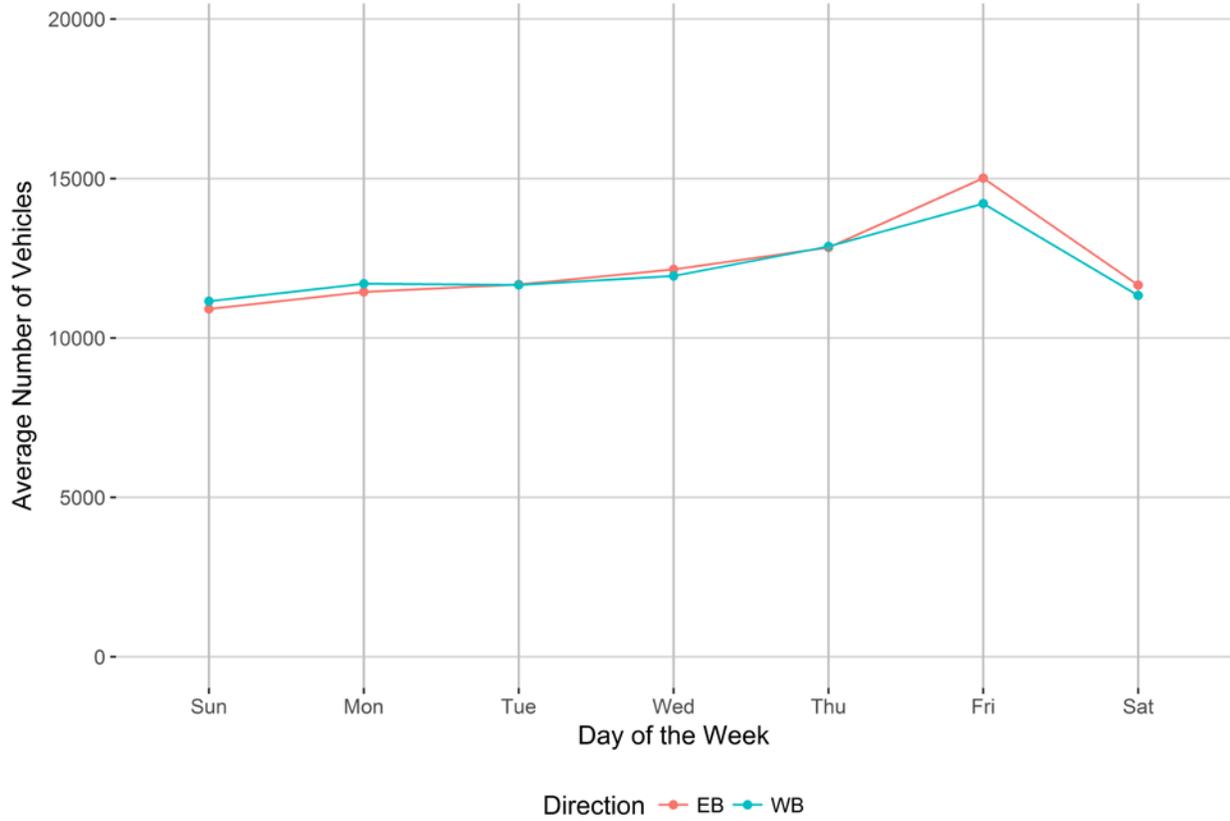


Figure 3 - Average Overweight Vehicle Volume vs. Day of the Week

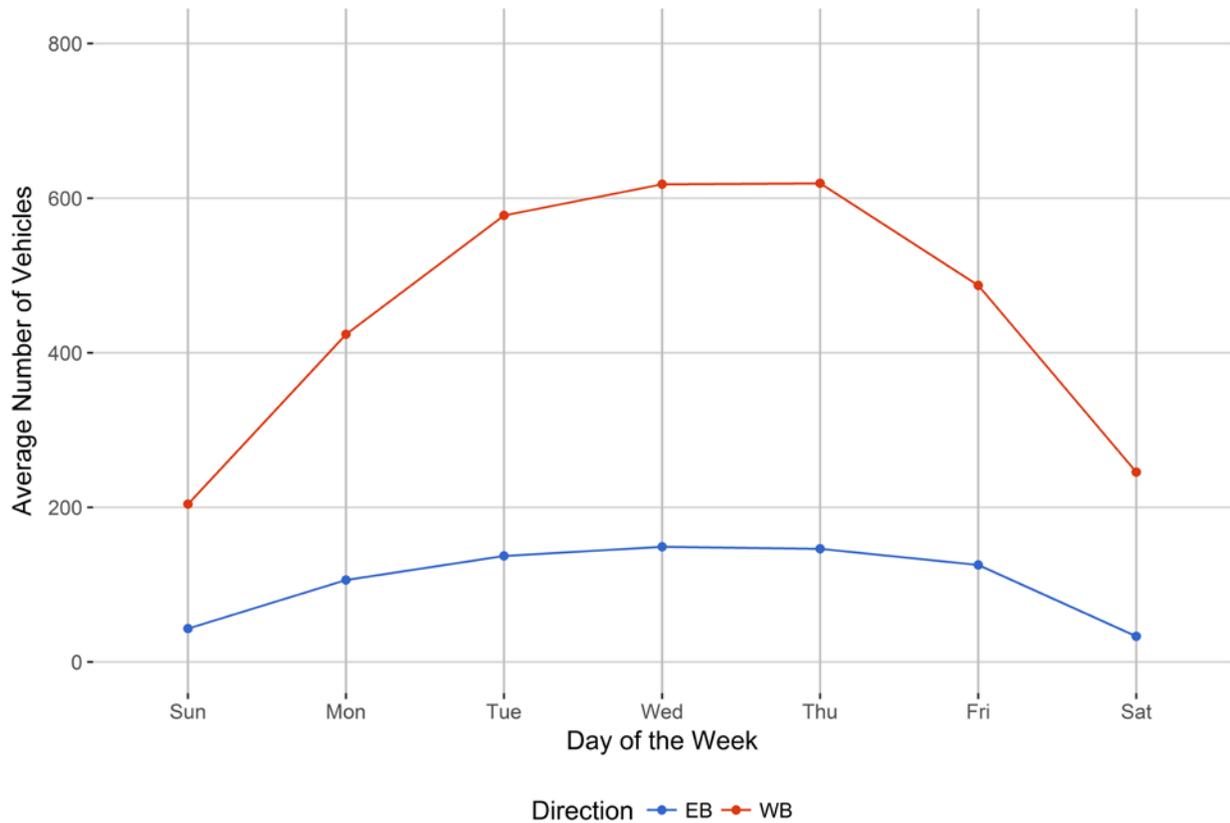


Figure 4 - Passenger Vehicles vs. Hour of the Day

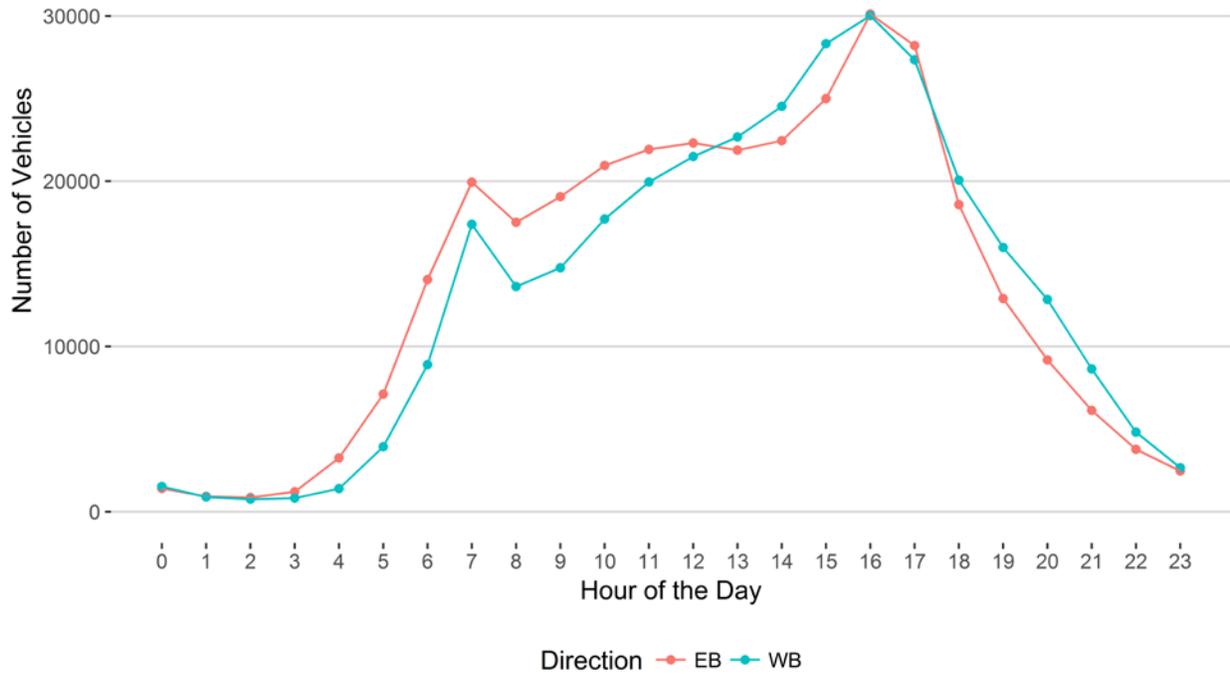


Figure 5 - Heavy Commercial Vehicles vs. Hour of the Day

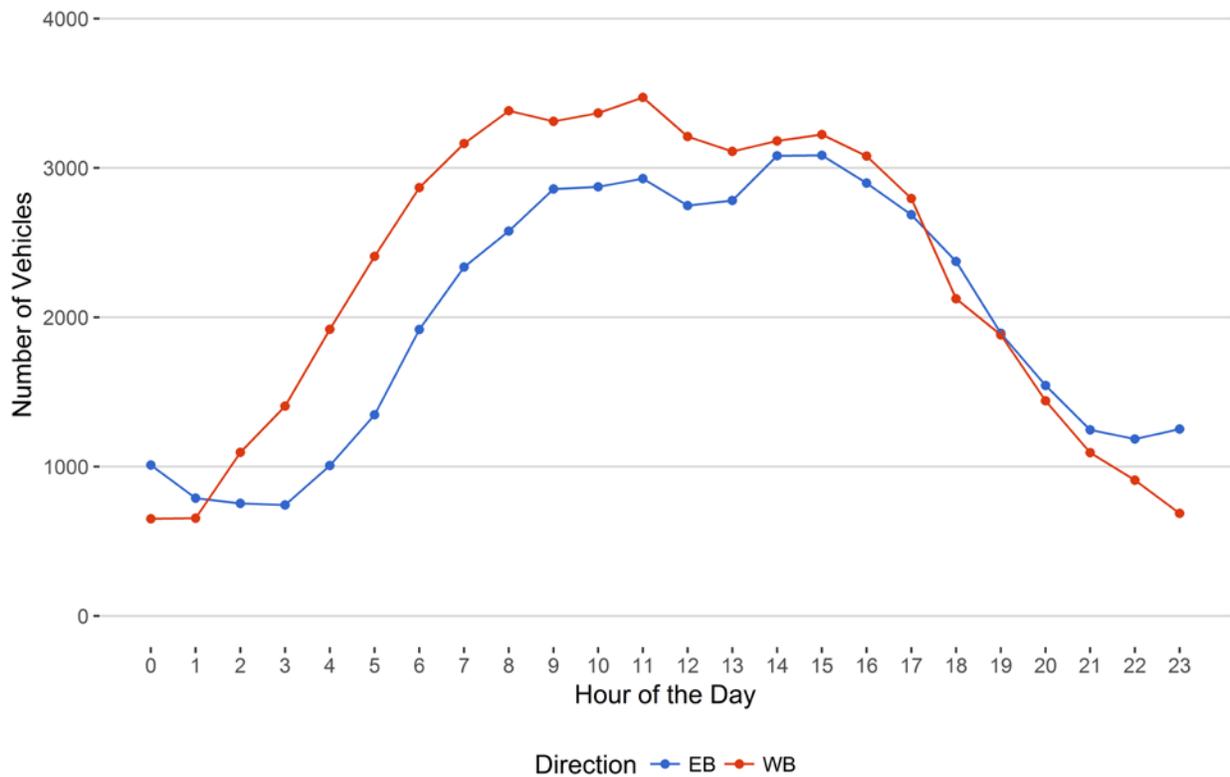


Figure 7 - Overweight Vehicles by Direction
Hour of the Day

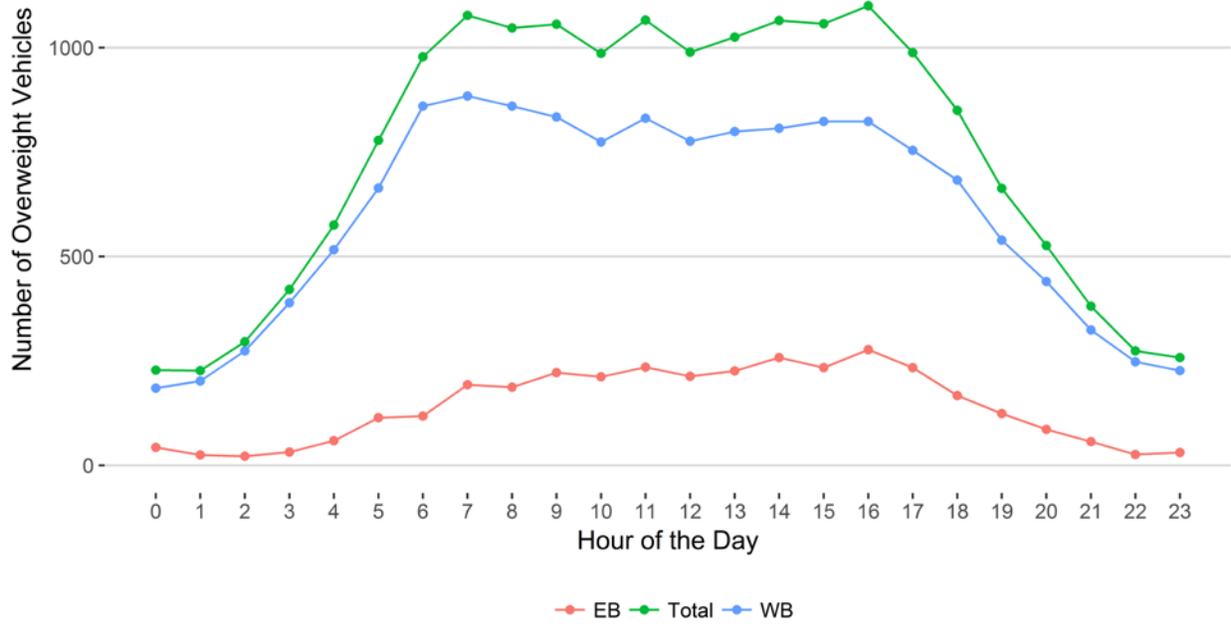
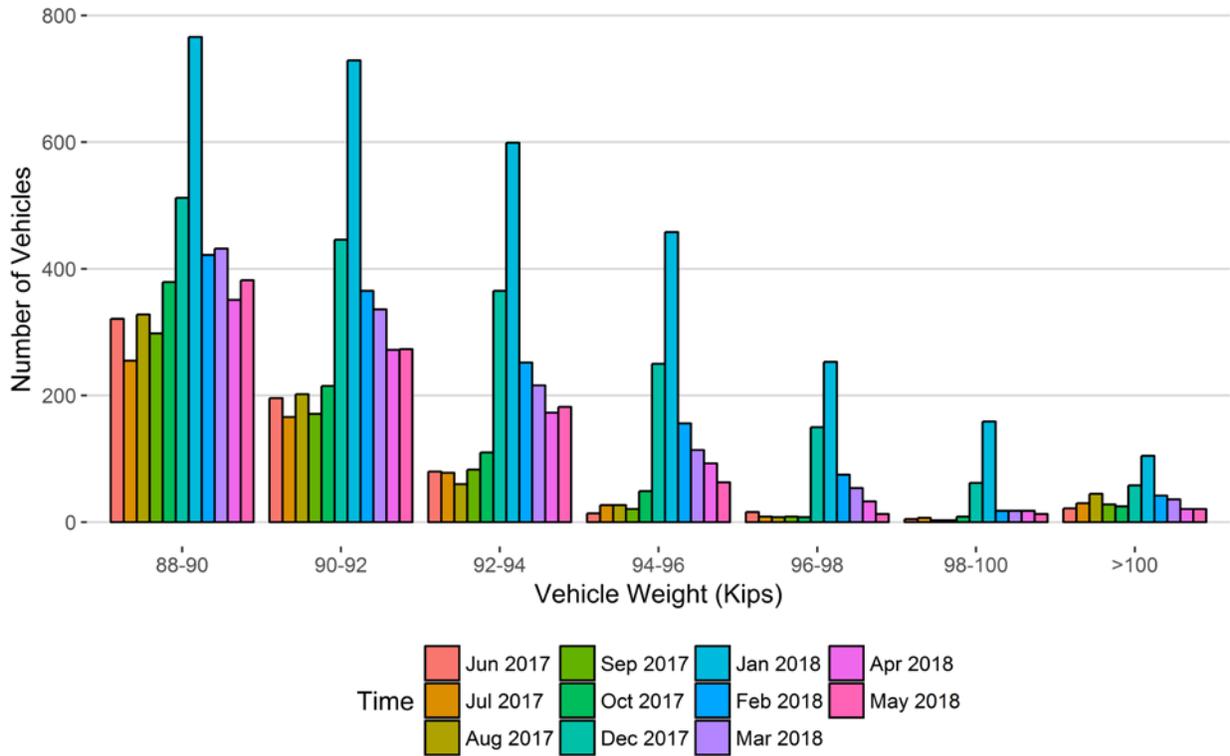
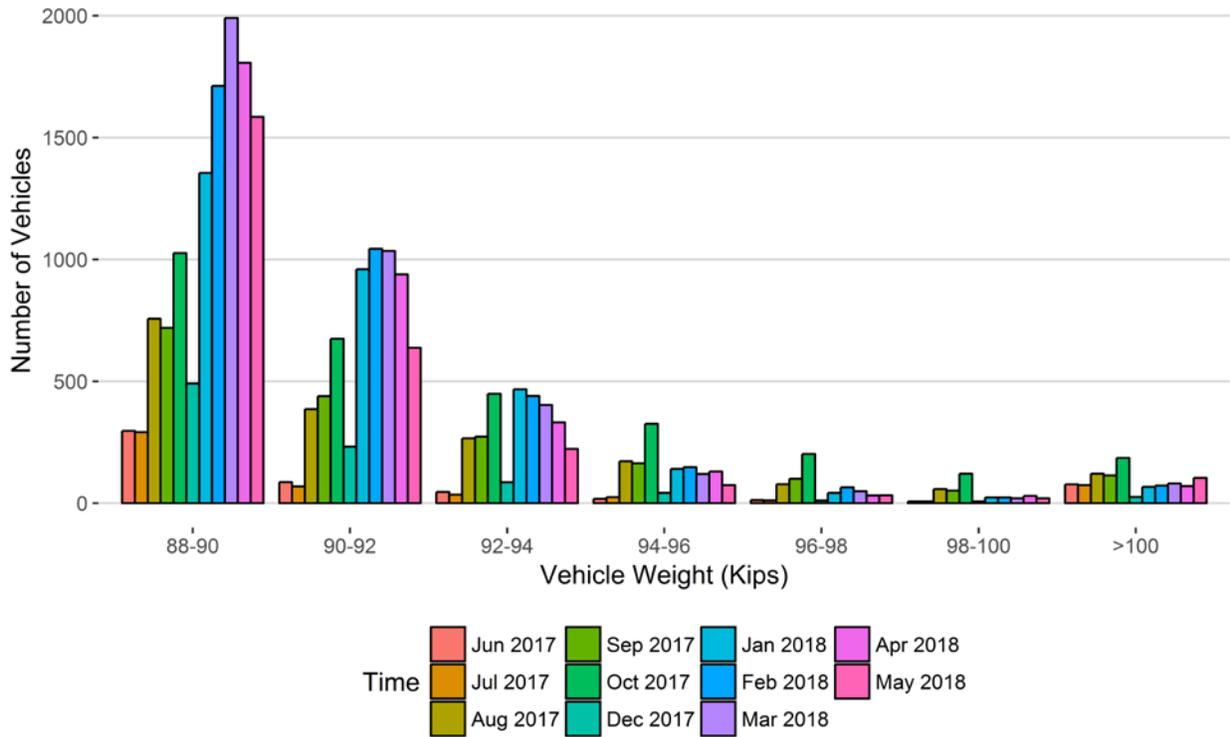


Figure 8 - Histogram of EB Vehicles Over 88,000 Pounds for Current Month



Vehicle Weights (Kips)	Jun 2017	Jul 2017	Aug 2017	Sep 2017	Oct 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018
88-90	321	255	328	298	379	512	766	422	432	351	382
90-92	196	166	202	171	215	446	729	365	336	272	273
92-94	80	78	60	83	110	365	599	252	216	173	182
94-96	14	27	27	21	49	250	458	156	114	93	63
96-98	16	9	8	9	8	150	253	75	54	33	13
98-100	5	7	3	3	9	62	159	18	18	18	13
>100	22	30	45	28	25	58	105	42	36	21	21
Total	654	572	673	613	795	1843	3069	1330	1206	961	947

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



Vehicle Weights (Kips)	Jun 2017	Jul 2017	Aug 2017	Sep 2017	Oct 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018
88-90	297	292	757	719	1026	491	1355	1712	1991	1807	1585
90-92	87	69	386	439	675	232	960	1044	1035	939	638
92-94	46	35	266	273	449	86	467	440	403	332	223
94-96	18	25	172	164	326	42	141	148	120	130	74
96-98	13	12	78	100	202	11	42	65	49	32	33
98-100	7	7	58	52	121	7	24	24	20	30	20
>100	77	74	121	114	186	26	67	72	81	70	104
Total	545	514	1838	1861	2985	895	3056	3505	3699	3340	2677

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

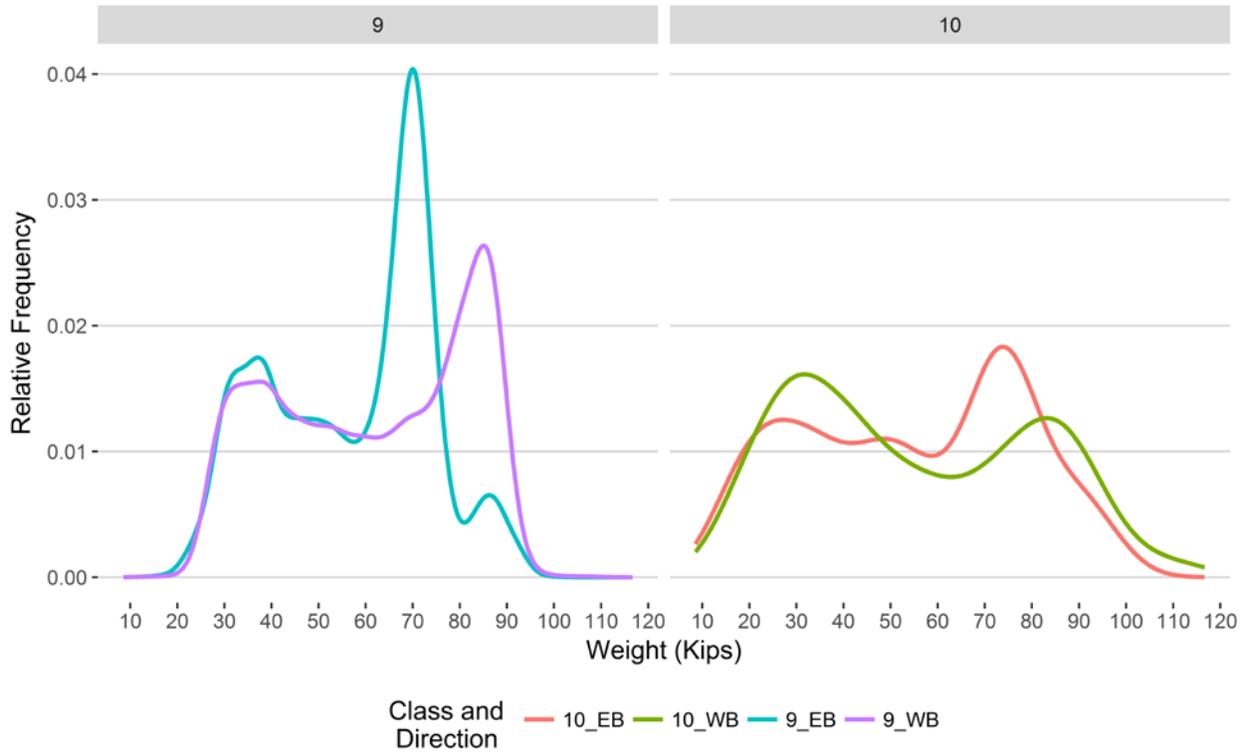


Figure 9 - Freight Percentage by Direction and Class

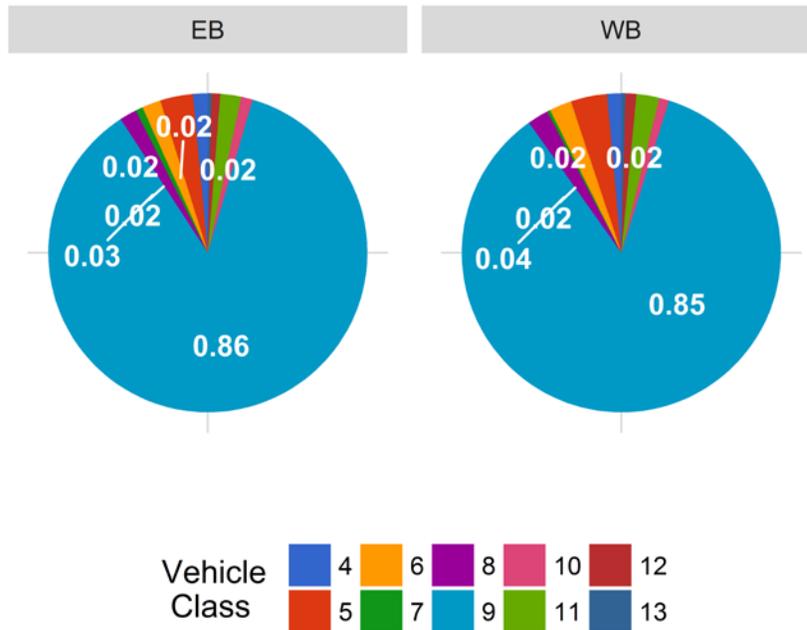


Figure 10 - Total Gross Vehicle Weight Percentage by Class and Lane

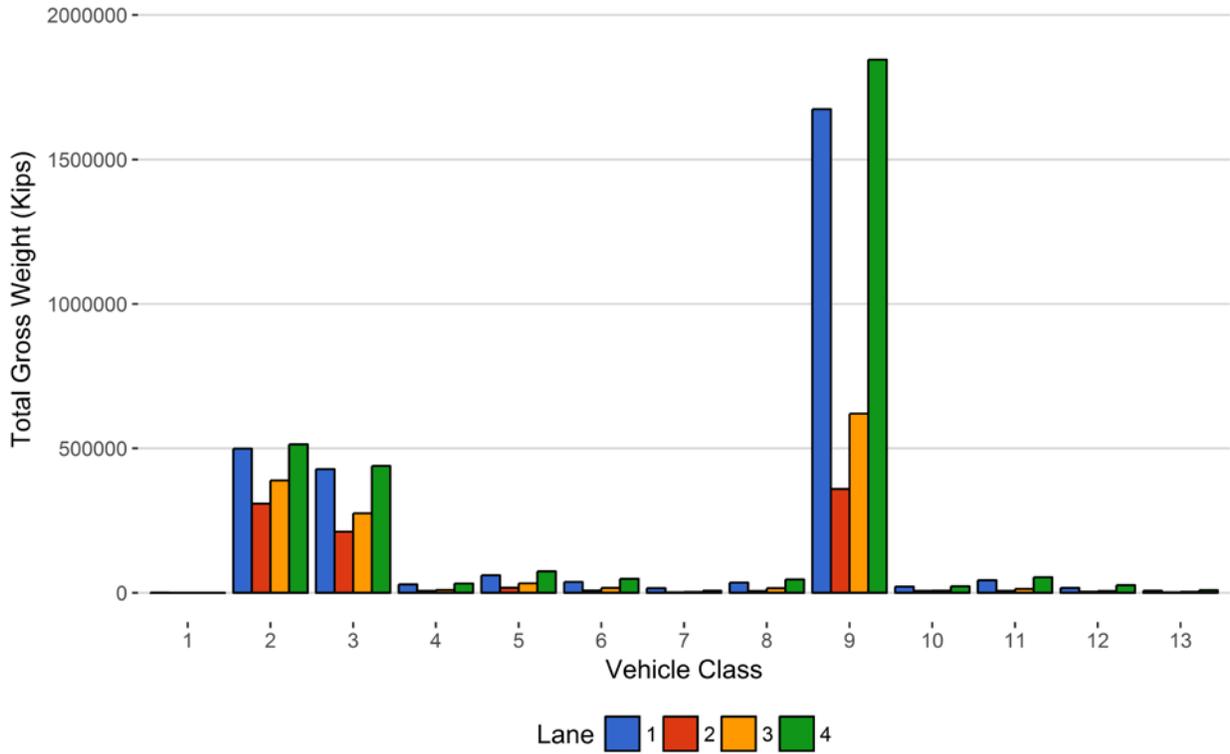


Figure 11 - Total Gross Vehicle Weight I

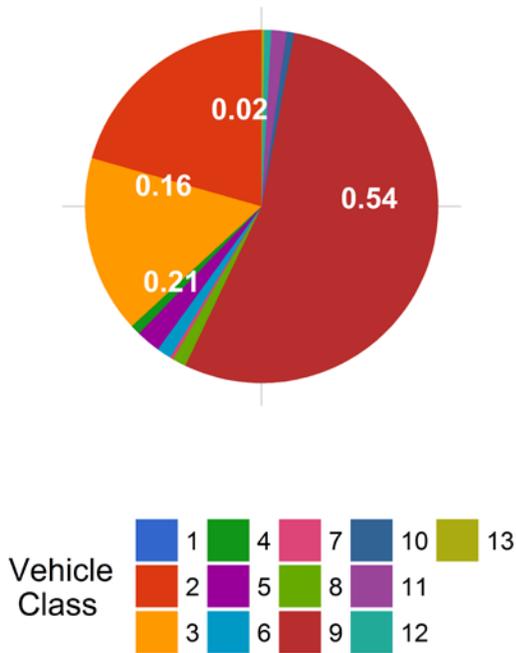


Figure 12 - Total ESALs by Class and Lane

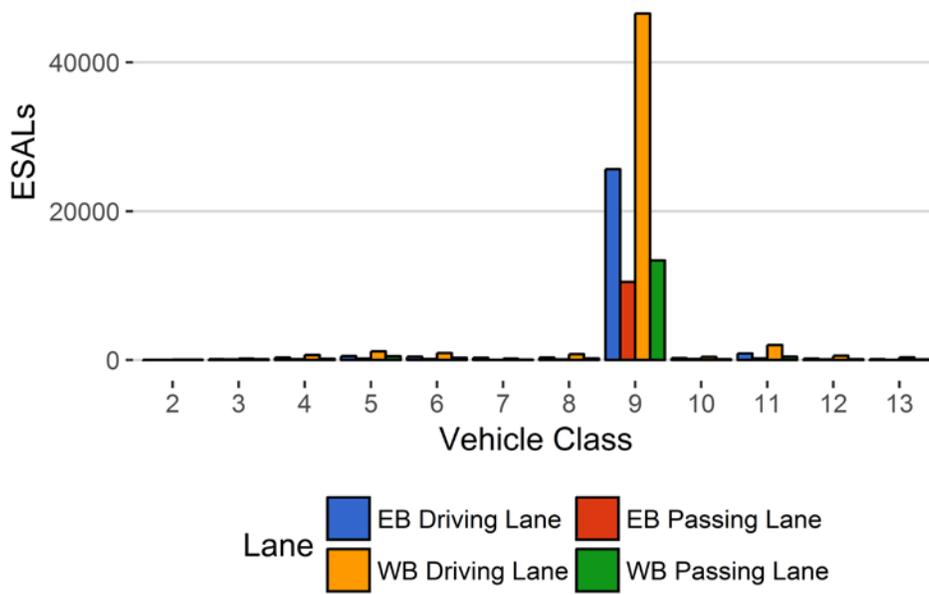


Figure 13 - ESALs by Class

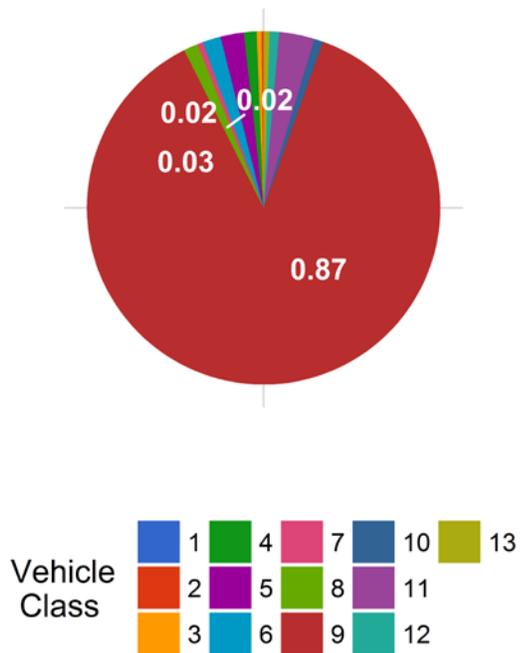


Table 1 Class 9 Front Axle Weight by Lane

<i>Month</i>	<i>Lane 1 (Kips)</i>	<i>Front Axle +/- 9%</i>	<i>Lane 2 (Kips)</i>	<i>Front Axle +/- 9%</i>	<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

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	16	497	0.1	0	0
2	14449	447913	57.2	0	0
3	7382	228845	29.2	0	0
4	95	2950	0.4	149	0.8
5	431	13376	1.7	211	1.2
6	121	3749	0.5	212	1.2
7	15	472	0.1	72	0.4
8	105	3265	0.4	119	0.7
9	2521	78153	10	16193	91.1
10	35	1074	0.1	209	1.2
11	62	1908	0.2	356	2
12	27	846	0.1	132	0.7
13	7	222	0	121	0.7
TOTAL	25267	783270	100	17774	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>
2018-05-21	Monday	15:49:31	9	EB	2	118.28
2018-05-25	Friday	05:27:00	10	WB	4	116.69
2018-05-18	Friday	15:33:50	10	WB	4	114.77
2018-05-15	Tuesday	16:05:34	10	WB	3	114.33
2018-05-09	Wednesday	15:14:44	9	WB	4	112.92
2018-05-03	Thursday	15:25:40	9	WB	4	112.82
2018-05-24	Thursday	09:03:45	10	WB	3	111.84
2018-05-08	Tuesday	08:43:21	10	WB	4	111.21
2018-05-16	Wednesday	17:28:21	9	WB	3	109.93
2018-05-01	Tuesday	09:25:53	10	WB	4	109.63

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	1421	286	20.1	31778	3592	7377
5	EB	8	5998	1308	21.8	69297	9019	15888
6	EB	19	1592	387	24.3	38430	6365	7767
7	EB	11.5	298	0	0	17619	0	7096
8	EB	31	1353	712	52.6	24750	16131	2440
9	EB	33	35408	3883	11	1920477	112678	440076
10	EB	33.5	507	130	25.6	24736	3073	6053
11	EB	36.5	873	74	8.5	47240	2461	9038
12	EB	36.5	353	4	1.1	20840	119	4051
13	EB	31.5	108	2	1.9	8500	43	2581
TOTAL	****	****	47911	6786	****	2203666	****	502366
<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	1427	154	10.8	39469	2025	10187
5	WB	8	6915	473	6.8	103029	3416	25746
6	WB	19	2027	155	7.6	62548	2720	13490
7	WB	11.5	158	0	0	9217	0	3700
8	WB	31	1799	698	38.8	45026	16566	5447
9	WB	33	40038	4166	10.4	2343669	121992	579946
10	WB	33.5	530	150	28.3	25343	3827	6307
11	WB	36.5	969	9	0.9	66730	249	15845
12	WB	36.5	464	1	0.2	32096	24	7598
13	WB	31.5	106	0	0	11762	0	4212
TOTAL	****	****	54433	5806	****	2738888	****	672478
GRAND TOTAL	****	****	102344	12592	271	4942554	304299	1174845

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	162	123	112	158	554	0
2	498632	308568	388483	513815	1709497	20.6
3	427936	211388	274604	439327	1353255	16.3
4	28776	6595	9649	31845	76864	0.9
5	60642	17673	32593	73852	184760	2.2
6	37537	7258	17290	47977	110062	1.3
7	16229	1390	2552	6665	26836	0.3
8	35156	5725	15765	45826	102473	1.2
9	1674130	359024	619903	1845758	4498815	54.1
10	21528	6280	6740	22430	56979	0.7
11	43513	6188	13170	53809	116679	1.4
12	17180	3778	5957	26163	53078	0.6
13	6797	1746	2928	8834	20305	0.2
TOTAL	2868218	935736	1389745	3116461	8310160	100
GVW/LANE	34.51	11.26	16.72	37.5	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	0.0021
2	39	43	57	67	206	0.19	0.001
3	103	84	117	183	487	0.44	0.0044
4	340	106	169	681	1296	1.17	0.91
5	524	184	484	1158	2350	2.13	0.36
6	456	144	303	944	1847	1.67	1.02
7	304	42	56	188	590	0.53	2.56
8	346	92	206	772	1415	1.28	0.9
9	25653	10492	13376	46559	96080	87.1	2.55
10	253	140	106	417	915	0.83	1.76
11	874	210	454	2023	3561	3.23	3.85
12	190	89	119	573	971	0.88	2.36
13	107	38	85	358	588	0.53	5.24
TOTAL	29189	11665	15530	53921	110305	100	22
ESALS/LANE	26.5	10.6	14.1	48.9	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>
Jun 2017	787202	26240	3845	671842	85.3	115359.8	14.7	87.6	12.4
Jul 2017	793741	25604	3569	683116	86.1	110625.4	13.9	87.8	12.2
Aug 2017	804859	25963	3913	683559	84.9	121300.1	15.1	88.2	11.8
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
TOTAL	7598187	--	--	6578116	--	1020072	--	--	--
AVERAGE	690744	22655	3041	598011	87	92734	13	86	14

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>
Jun 2017	29143	11749	5847	65483	112222	84	16	3.1
Jul 2017	32412	10936	5392	58059	106799	85	15	3.6
Aug 2017	33618	11934	5771	69776	121098	85	15	12.8
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
TOTAL	296736	116381	69833	604158	1087107	--	--	--
AVERAGE	26976	10580	6348	54923	98828	82	18	19

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>
Jun 2017	1766773	670355	515044	1948965	4901137
Jul 2017	1548618	606656	457410	2455684	5068368
Aug 2017	2931469	759060	586267	3650504	7927301
Sep 2017	2785677	692032	555620	3520002	7553332
Oct 2017	2870338	936643	1392451	3125714	8325147
Dec 2017	2952550	967704	732361	4032996	8685611
Jan 2018	3159815	956636	735948	3732726	8585126
Feb 2018	3303649	990874	745014	4084406	9123942
Mar 2018	2281938	844722	639059	3699998	7465716
Apr 2018	1844438	851013	680855	3359518	6735824
May 2018	2602727	725139	571128	1034431	4933426
TOTAL	28047994	9000834	7611157	34644945	79304929
AVERAGE	2549818	818258	691923	3149540	7209539

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>
Jun 2017	19465	2.5	17.2	1210	117
Jul 2017	16898	2.2	15.5	1096	125
Aug 2017	19320	2.5	16.3	2517	230
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
TOTAL	187059	--	--	37744	2171
AVERAGE	17005.4	2.6	18.7	3431.3	197.4

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>
Jun 2017	496712	733003	1229716	40.4	59.6
Jul 2017	537419	650628	1188047	45.2	54.8
Aug 2017	575347	742535	1317881	43.7	56.3
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
TOTAL	4806311	6411977	11218288	--	--
AVERAGE	436937.3	582907	1019844.3	43.5	56.5