



September 4, 2018

Mr. Jessy Pu
Town of Los Gatos
41 Miles Avenue
Los Gatos, CA 95030

Hillbrook School 2017-2018 Monitoring - Spring Trimester Report

Dear Mr. Pu;

This memorandum summarizes the Spring Trimester traffic monitoring of Hillbrook School in Los Gatos for the 2017-2018 school year. In December 2017 and April 2018, W-Trans verified the functionality of the Sensys system and visually inspected the backup pneumatic tube counters during site visits to Hillbrook School.

In December 2017, W-Trans confirmed with Hillbrook School that Sensys counters were calibrated and measured to be in proper working condition. Sensys staff performed a validation of the count system and concluded that the daily counts are showing between 97% and 99.75% accuracy. The Sensys sensors are self-calibrating and self-turning and are upgraded remotely as new software is released. The Hillbrook School has implemented traffic control measures to improve the flow of vehicles over the sensors to maintain data accuracy, such as lane delineators along Marchmont Drive.

The purpose of this memo is to summarize the 2018 Spring Trimester manual data collection and daily vehicle trips and to note any discrepancies in the data collection. Overall, Hillbrook School did not exceed the maximum number of daily vehicle trips during Spring Trimester.

Existing Conditions

The Hillbrook School is located at 300 Marchmont Drive in the Town of Los Gatos. According to Condition 17 of the School's Conditional Use Permit, "the maximum number of daily vehicle trips shall not exceed 880." The School can identify up to 10 exception days where they are permitted to exceed the maximum number of daily trips, however, the total number of trips on these exception days shall not exceed 960. During the summer trimester "the maximum number of daily vehicle trips shall not exceed 300." The school maintains two Sensys magnetometer traffic counters embedded in the pavement of the exit lane outside the school's gate, approximately 20 feet apart. These magnetometers (Sensys counters) are calibrated to detect the presence of vehicles and motorcycles but not bicycles or other non-motorized means of transportation. Hillbrook School has only one vehicular access point, and because of this it is assumed that all exit trips also made an entrance trip through this location. For reporting purposes, the maximum of either Exit A or Exit B is used to determine the number of daily trips.

The Conditional Use Permit also outlines the requirements of manual data collection in Condition 19 and "the school shall be considered out of compliance if any mechanical readings exceed the Sensys counts by more than five percent and where the readings are above the maximum number of daily vehicle trips."

Hillbrook School has only one vehicular access point, and because of this it is assumed that all exit trips also made an entrance trip through this location. For reporting purposes, the maximum of either Exit A or Exit B is used to determine the number of daily trips.

A permanent backup pneumatic tube counter, a MetroCount MC56000 Vehicle Classifier System, is located in both the entrance and exit lanes just outside of the School's gate. Pneumatic tube systems utilize rubber tubes placed across traffic lanes in specific configurations. When a vehicle travels over the tube the air pressure in the tube is compressed and this compression triggers an event recording. The system is programmed to classify vehicles based

on the distance between the front and rear axle. The School's MetroCount system counts the total number of trips, both entrance and exit trips.

During a site visit in December 2017, Hillbrook School staff provided W-Trans staff with a walk through of the installation of the new Exit A sensor and the Sensys system and the MetroCount backup system. We were able to see, in real time, the Sensys system counting vehicles with the data reporting online. While the Sensys system can be accessed remotely online, the MetroCount system is local to the School's network. The School has agreed to actively provide W-Trans with backup data directly from the MetroCount system when necessary.

During the both the 2017 Fall Trimester and the 2018 Spring Trimester, the house located directly adjacent to the Hillbrook School exit lane and Sensys sensors location has been undergoing extensive renovations. The construction and contractor vehicles have been entering and exiting the residential driveway and backing up along Marchmont Drive to park on the street in front of the house. Many of these maneuvers are being detected by the new Exit A sensor. Hillbrook School has set up lane delineators along Marchmont Drive to reduce the number of U-turn maneuvers by the construction vehicles that are detected by the Sensys system, however the Exit A sensor has continued to pick up the construction vehicles. Additionally, Sensys staff noted that the presence of parked vehicles along Marchmont Drive near the sensors could interfere with the magnetic field. Hillbrook School staff requested on multiple occasions for the construction vehicles to not park near the sensors. These construction vehicles are only being detected by Sensor A and not Sensor B leading to an increased number of days where the difference between the two sensors is larger than 5%, but as noted in Attachment 1, Hillbrook School did not exceed the daily trip cap, even with the interference from construction vehicles.

24-hour Manual Counts and Observations

For the 2018 Spring Trimester, traffic counts were obtained on Marchmont Drive on February 13th, March 28th, and April 19th. These dates were selected to cover a variety of on-campus activities. On Tuesday February 13th, Hillbrook School had admissions screening for perspective kindergarten students during the morning and two home basketball games after school in the afternoon. Wednesday March 28th was the 8th Grade Play evening event and an exception day as noted by Hillbrook School at the beginning of the school year. Thursday April 19th was a typical school day with no on-campus events scheduled.

The traffic counts based on video taken by W-Trans represent the total sum of entrance and exit trips for 24-hours, broken down into 15-minute intervals. The Sensys counts represent the exit trips for the same 24-hour period. In order to convert exit trips to both entrance and exit trips, the maximum count from either Exit A or Exit B was determined and then doubled (assuming one trip in is equivalent to one trip out). The data from the Exit A sensor was higher than the data from the Exit B sensor on February 13th and March 28th; therefore, the Sensys counts compared to the video counts on those days are the doubled counts from the Exit A sensor. On April 19th the doubled counts from the Exit B sensor were compared to the video counts. The raw Sensys data and video counts are attached. The manual counts were then compared to the Sensys data for the same time period in Table 1.

Table 1 – Summary of 24-Hour Counts for Spring Trimester 2018

Date	Day of the Week	Counts (# of Vehicles)		Summary of Counts	
		W-Trans Video	School Counts	Percent Difference	Difference in Trips
02/13/18	Tuesday	860	874	1.61%	14
03/28/18	Wednesday	808	764	5.60%	44
04/19/18	Thursday	844	862	2.11%	18
Average		838	834	0.48%	4

Note: Allowable percent difference less than five percent: daily trip cap 880 trips on a regular school day and 960 on an exception day; **Bold Red** = difference between counts greater than 5%

During the 2018 Spring Trimester, the video counts conducted were manually counted and reviewed to ensure accuracy. The average difference, overall, was less than five percent and should be considered acceptable within the margin of error. Additionally, none of the data points exceeded the Conditional Use Permit daily trip caps.

2018 Spring Trimester Summary

- During the 2018 Spring Trimester, Hillbrook School did not exceed the maximum number of daily trips (880) for a regular school day. The daily summary of Sensys counts for the 2018 Spring Trimester is shown in Attachment 1. Additionally, the number of daily trips on the exception days did not exceed the maximum number of daily trips (960).
- The highest number of daily vehicle trips was 912 trips and occurred on March 29, 2018, an exception day.
- The average number of school day vehicle trips for the 2018 Spring Trimester was approximately 734 trips.
- Excluding weekends and school holidays, there were 17 instances where the difference between Sensor A and Sensor B was greater than five percent (5%). In all 17 instances the Sensor A count exceeded the Sensor B count by an average of 22 vehicles. The increased count at Sensor A on these days likely can be attributed to the construction activity adjacent to Hillbrook School or normal residential activity on Marchmont Drive.
- The cumulative percent difference between Sensor A and Sensor B for the 2018 Spring Trimester was 2.8%, within the expected range of outcomes based on Sensys staff analysis.
- The largest daily difference between Sensor A and Sensor B was 39 trips on January 9, 2018.
- In January 2018 the average daily difference between Sensor A and Sensor B was approximately 15 trips. The difference was approximately 14 trips in February, 10 trips in March, 12 trips in April, seven trips in May and 17 trips in June. The average daily difference is reported for informational purposes and it does not alter the number of daily trips as the higher value of the two sensors is used for compliance analysis.

Conclusions

Overall, Hillbrook School was in compliance with Condition 17 and Condition 19 of the School's Conditional Use Permit for the school year 2017 - 2018 Spring Trimester. We will continue to provide monthly downloads of Sensys data during the first week of each month.

Mr. Jessy Pu

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Thank you for giving W-Trans the opportunity to provide these services. Please call if you have any questions.

Sincerely,



Nick Bleich, EIT, AICP
Assistant Engineer



Mark Spencer, PE
Principal



MES/nfb/LGA004-5.L1

Enclosures: Spring Trimester Count Summary
Sprint Trimester Sensys Data
Spring Trimester IDAX Video Counts

Daily Sensys Count Summary – 2018 Spring Trimester

Date	Day of the Week	Sensys Counts (# of Vehicles)		Summary of Sensys Counts		Notes
		Exit A	Exit B	Percent Difference	Daily Trips	
01/08/18	Monday	302	279	7.9%	604	First day of school
01/09/18	Tuesday	326	287	12.7%	652	
01/10/18	Wednesday	355	337	5.2%	710	
01/11/18	Thursday	344	328	4.8%	688	
01/12/18	Friday	348	337	3.2%	696	
01/13/18	Saturday	17	24	34.1%	48	
01/14/18	Sunday	24	27	11.8%	54	
01/15/18	Monday	15	15	0.0%	30	MLK Day – No School
01/16/18	Tuesday	391	374	4.4%	782	
01/17/18	Wednesday	322	309	4.1%	644	Exception Day - Open House
01/18/18	Thursday	395	380	3.9%	790	
01/19/18	Friday	342	342	0.0%	684	
01/20/18	Saturday	15	16	6.5%	32	
01/21/18	Sunday	16	16	0.0%	32	
01/22/18	Monday	325	298	8.7%	650	
01/23/18	Tuesday	371	362	2.5%	742	
01/24/18	Wednesday	333	320	4.0%	666	Exception Day - Open House
01/25/18	Thursday	356	353	0.8%	712	
01/26/18	Friday	349	332	5.0%	698	
01/27/18	Saturday	16	22	31.6%	44	
01/28/18	Sunday	10	8	22.2%	20	
01/29/18	Monday	351	341	2.9%	702	
01/30/18	Tuesday	336	333	0.9%	672	
01/31/18	Wednesday	355	342	3.7%	710	
02/01/18	Thursday	390	379	2.9%	780	
02/02/18	Friday	347	332	4.4%	694	
02/03/18	Saturday	22	21	4.7%	44	
02/04/18	Sunday	6	7	15.4%	14	
02/05/18	Monday	366	347	5.3%	732	
02/06/18	Tuesday	396	391	1.3%	792	
02/07/18	Wednesday	280	273	2.5%	560	
02/08/18	Thursday	373	362	3.0%	746	
02/09/18	Friday	337	330	2.1%	674	
02/10/18	Saturday	15	14	6.9%	30	
02/11/18	Sunday	8	8	0.0%	16	

Daily Sensys Count Summary – 2018 Spring Trimester

Date	Day of the Week	Sensys Counts (# of Vehicles)		Summary of Sensys Counts		Notes
		Exit A	Exit B	Percent Difference	Daily Trips	
02/12/18	Monday	401	383	4.6%	802	
02/13/18	Tuesday	437	426	2.5%	874	
02/14/18	Wednesday	391	368	6.1%	782	
02/15/18	Thursday	383	360	6.2%	766	
02/16/18	Friday	365	343	6.2%	730	
02/17/18	Saturday	11	11	0.0%	22	
02/18/18	Sunday	8	5	46.2%	16	
02/19/18	Monday	8	14	54.5%	28	February Break – No School
02/20/18	Tuesday	69	68	1.5%	138	February Break – No School
02/21/18	Wednesday	62	61	1.6%	124	February Break – No School
02/22/18	Thursday	45	43	4.5%	90	February Break – No School
02/23/18	Friday	43	44	2.3%	88	February Break – No School
02/24/18	Saturday	16	20	22.2%	40	
02/25/18	Sunday	4	6	40.0%	12	
02/26/18	Monday	375	368	1.9%	750	
02/27/18	Tuesday	431	429	0.5%	862	
02/28/18	Wednesday	410	387	5.8%	820	
03/01/18	Thursday	389	367	5.8%	778	
03/02/18	Friday	420	406	3.4%	840	
03/03/18	Saturday	15	9	50.0%	30	
03/04/18	Sunday	8	8	0.0%	16	
03/05/18	Monday	385	386	0.3%	772	
03/06/18	Tuesday	382	384	0.5%	768	
03/07/18	Wednesday	377	367	2.7%	754	
03/08/18	Thursday	357	356	0.3%	714	
03/09/18	Friday	376	365	3.0%	752	
03/10/18	Saturday	17	13	26.7%	34	Conferences – No School
03/11/18	Sunday	10	9	10.5%	20	
03/12/18	Monday	387	382	1.3%	774	
03/13/18	Tuesday	430	421	2.1%	860	
03/14/18	Wednesday	367	367	0.0%	734	
03/15/18	Thursday	416	412	1.0%	832	
03/16/18	Friday	278	266	4.4%	556	
03/17/18	Saturday	13	14	7.4%	28	Conferences – No School
03/18/18	Sunday	9	11	20.0%	22	

Daily Sensys Count Summary – 2018 Spring Trimester

Date	Day of the Week	Sensys Counts (# of Vehicles)		Summary of Sensys Counts		Notes
		Exit A	Exit B	Percent Difference	Daily Trips	
03/19/18	Monday	271	259	4.5%	542	Conferences – No School
03/20/18	Tuesday	379	354	6.8%	758	
03/21/18	Wednesday	369	346	6.4%	738	
03/22/18	Thursday	398	388	2.5%	796	
03/23/18	Friday	325	305	6.3%	650	
03/24/18	Saturday	12	16	28.6%	32	
03/25/18	Sunday	8	13	47.6%	26	
03/26/18	Monday	353	331	6.4%	706	
03/27/18	Tuesday	360	366	1.7%	732	
03/28/18	Wednesday	382	380	0.5%	764	Exception Day – 8 th Grade Play
03/29/18	Thursday	456	448	1.8%	912	Exception Day – 8 th Grade Play
03/30/18	Friday	399	393	1.5%	798	
03/31/18	Saturday	11	11	0.0%	22	
04/01/18	Sunday	10	11	9.5%	22	
04/02/18	Monday	363	358	1.4%	726	
04/03/18	Tuesday	351	344	2.0%	702	
04/04/18	Wednesday	331	319	3.7%	662	
04/05/18	Thursday	364	359	1.4%	728	
04/06/18	Friday	348	337	3.2%	696	
04/07/18	Saturday	6	9	40.0%	18	
04/08/18	Sunday	4	4	0.0%	8	
04/09/18	Monday	18	22	20.0%	44	Spring Break – No School
04/10/18	Tuesday	29	30	3.4%	60	Spring Break – No School
04/11/18	Wednesday	29	31	6.7%	62	Spring Break – No School
04/12/18	Thursday	27	22	20.4%	54	Spring Break – No School
04/13/18	Friday	16	14	13.3%	32	Spring Break – No School
04/14/18	Saturday	9	14	43.5%	28	
04/15/18	Sunday	5	5	0.0%	10	
04/16/18	Monday	351	338	3.8%	702	
04/17/18	Tuesday	381	367	3.7%	762	
04/18/18	Wednesday	363	356	1.9%	726	
04/19/18	Thursday	421	431	2.3%	862	
04/20/18	Friday	364	355	2.5%	728	
04/21/18	Saturday	14	13	7.4%	28	
04/22/18	Sunday	9	7	25.0%	18	

Daily Sensys Count Summary – 2018 Spring Trimester						
Date	Day of the Week	Sensys Counts (# of Vehicles)		Summary of Sensys Counts		Notes
		Exit A	Exit B	Percent Difference	Daily Trips	
04/23/18	Monday	385	385	0.0%	770	
04/24/18	Tuesday	385	371	3.7%	770	
04/25/18	Wednesday	389	373	4.2%	778	
04/26/18	Thursday	387	364	6.1%	774	
04/27/18	Friday	345	334	3.2%	690	Exception Day – Spring Concert
04/28/18	Saturday	21	16	27.0%	42	
04/29/18	Sunday	12	10	18.2%	24	
04/30/18	Monday	387	366	5.6%	774	
05/01/18	Tuesday	384	380	1.0%	768	
05/02/18	Wednesday	363	360	0.8%	726	
05/03/18	Thursday	396	394	0.5%	792	
05/04/18	Friday	276	255	7.9%	552	
05/05/18	Saturday	20	20	0.0%	40	
05/06/18	Sunday	9	11	20.0%	22	
05/07/18	Monday	385	385	0.0%	770	
05/08/18	Tuesday	398	390	2.0%	796	
05/09/18	Wednesday	372	363	2.4%	744	
05/10/18	Thursday	409	411	0.5%	822	
05/11/18	Friday	418	408	2.4%	836	Exception Day - Celebration
05/12/18	Saturday	16	19	17.1%	38	
05/13/18	Sunday	7	8	13.3%	16	
05/14/18	Monday	403	404	0.2%	808	
05/15/18	Tuesday	390	389	0.3%	780	
05/16/18	Wednesday	383	376	1.8%	766	
05/17/18	Thursday	423	420	0.7%	846	
05/18/18	Friday	393	391	0.5%	786	
05/19/18	Saturday	22	21	4.7%	44	
05/20/18	Sunday	5	6	18.2%	12	
05/21/18	Monday	362	361	0.3%	724	
05/22/18	Tuesday	360	351	2.5%	720	
05/23/18	Wednesday	322	320	0.6%	644	
05/24/18	Thursday	281	271	3.6%	562	
05/25/18	Friday	252	245	2.8%	504	Exception Day – Greek Play
05/26/18	Saturday	14	13	7.4%	28	
05/27/18	Sunday	7	6	15.4%	14	

Daily Sensys Count Summary – 2018 Spring Trimester

Date	Day of the Week	Sensys Counts (# of Vehicles)		Summary of Sensys Counts		Notes
		Exit A	Exit B	Percent Difference	Daily Trips	
05/28/18	Monday	16	13	20.7%	32	Memorial Day – No School
05/29/18	Tuesday	434	416	4.2%	868	
05/30/18	Wednesday	372	354	5.0%	744	
05/31/18	Thursday	412	402	2.5%	824	
06/01/18	Friday	390	371	5.0%	780	
06/02/18	Saturday	11	11	0.0%	22	
06/03/18	Sunday	5	8	46.2%	16	
06/04/18	Monday	301	277	8.3%	602	
06/05/18	Tuesday	179	171	4.6%	358	Last Day of School

Note: Allowable percent difference less than five percent: daily trip cap 880 trips on a regular school day and 960 on an exception day; **Bold Red** = value exceeds conditional use permit threshold

Results for Sensor Zone 'ExitA' in AP: 'APEG 9545'

Reporting interval: 1 hour, Speed Average: Averaged by car

Time (Beginning of Interval)	Occup (%)	Volume	Median Speed (mph)	Avg Speed (mph)
02/13/2018 00:00	0	0	n/a	n/a
02/13/2018 01:00	0	0	n/a	n/a
02/13/2018 02:00	0	0	n/a	n/a
02/13/2018 03:00	0.03	1	n/a	n/a
02/13/2018 04:00	0	0	n/a	n/a
02/13/2018 05:00	0	0	n/a	n/a
02/13/2018 06:00	0.05	1	n/a	n/a
02/13/2018 07:00	1.47	46	n/a	n/a
02/13/2018 08:00	1.79	56	n/a	n/a
02/13/2018 09:00	0.23	8	n/a	n/a
02/13/2018 10:00	0.31	11	n/a	n/a
02/13/2018 11:00	0.57	16	n/a	n/a
02/13/2018 12:00	0.45	13	n/a	n/a
02/13/2018 13:00	0.28	10	n/a	n/a
02/13/2018 14:00	1.15	42	n/a	n/a
02/13/2018 15:00	3.27	111	n/a	n/a
02/13/2018 16:00	1.52	51	n/a	n/a
02/13/2018 17:00	1.13	42	n/a	n/a
02/13/2018 18:00	0.68	27	n/a	n/a
02/13/2018 19:00	0	0	n/a	n/a
02/13/2018 20:00	0	0	n/a	n/a
02/13/2018 21:00	0.09	2	n/a	n/a
02/13/2018 22:00	0	0	n/a	n/a
02/13/2018 23:00	0	0	n/a	n/a
Grand Total	0.54	437	---	n/a
Doubled Exit A Sensor = 874				
03/28/2018 00:00	0	0	n/a	n/a
03/28/2018 01:00	0	0	n/a	n/a
03/28/2018 02:00	0	0	n/a	n/a
03/28/2018 03:00	0.04	2	n/a	n/a
03/28/2018 04:00	0	0	n/a	n/a
03/28/2018 05:00	0.03	1	n/a	n/a
03/28/2018 06:00	0	0	n/a	n/a
03/28/2018 07:00	1.33	48	n/a	n/a
03/28/2018 08:00	1.79	64	n/a	n/a
03/28/2018 09:00	0.08	3	n/a	n/a
03/28/2018 10:00	0.29	9	n/a	n/a
03/28/2018 11:00	0.13	5	n/a	n/a
03/28/2018 12:00	0.20	6	n/a	n/a
03/28/2018 13:00	0.09	4	n/a	n/a
03/28/2018 14:00	0.53	22	n/a	n/a
03/28/2018 15:00	3.37	114	n/a	n/a
03/28/2018 16:00	9.43	27	n/a	n/a
03/28/2018 17:00	8.87	16	n/a	n/a
03/28/2018 18:00	0.19	10	n/a	n/a
03/28/2018 19:00	0.25	6	n/a	n/a
03/28/2018 20:00	1.42	44	n/a	n/a
03/28/2018 21:00	0	0	n/a	n/a
03/28/2018 22:00	0.05	1	n/a	n/a
03/28/2018 23:00	0	0	n/a	n/a
Grand Total	1.17	382	---	n/a
Doubled Exit A Sensor = 764				
04/19/2018 00:00	0	0	n/a	n/a
04/19/2018 01:00	0	0	n/a	n/a
04/19/2018 02:00	0	0	n/a	n/a
04/19/2018 03:00	0	0	n/a	n/a
04/19/2018 04:00	0	0	n/a	n/a
04/19/2018 05:00	0	0	n/a	n/a
04/19/2018 06:00	0	0	n/a	n/a
04/19/2018 07:00	1.70	54	n/a	n/a
04/19/2018 08:00	2	69	n/a	n/a
04/19/2018 09:00	0.25	5	n/a	n/a
04/19/2018 10:00	0.42	15	n/a	n/a
04/19/2018 11:00	0.49	10	n/a	n/a
04/19/2018 12:00	0.35	12	n/a	n/a
04/19/2018 13:00	0.41	12	n/a	n/a
04/19/2018 14:00	0.84	31	n/a	n/a
04/19/2018 15:00	3.35	98	n/a	n/a
04/19/2018 16:00	2.26	78	n/a	n/a
04/19/2018 17:00	0.81	29	n/a	n/a
04/19/2018 18:00	0.34	3	n/a	n/a
04/19/2018 19:00	0.29	3	n/a	n/a
04/19/2018 20:00	0.12	2	n/a	n/a
04/19/2018 21:00	0	0	n/a	n/a
04/19/2018 22:00	0	0	n/a	n/a
04/19/2018 23:00	0	0	n/a	n/a
Grand Total	0.57	421	---	n/a

Results for Sensor Zone 'ExitB' in AP: 'APEG 9545'

Reporting interval: 1 hour, Speed Average: Averaged by car

Time (Beginning of Interval)	Occup (%)	Volume	Median Speed (mph)	Avg Speed (mph)
02/13/2018 00:00	0	0	n/a	n/a
02/13/2018 01:00	0	0	n/a	n/a
02/13/2018 02:00	0	0	n/a	n/a
02/13/2018 03:00	0.03	1	n/a	n/a
02/13/2018 04:00	0	0	n/a	n/a
02/13/2018 05:00	0	0	n/a	n/a
02/13/2018 06:00	0.04	1	n/a	n/a
02/13/2018 07:00	1.31	46	n/a	n/a
02/13/2018 08:00	1.62	58	n/a	n/a
02/13/2018 09:00	0.39	8	n/a	n/a
02/13/2018 10:00	0.26	11	n/a	n/a
02/13/2018 11:00	0.97	14	n/a	n/a
02/13/2018 12:00	0.41	13	n/a	n/a
02/13/2018 13:00	0.24	10	n/a	n/a
02/13/2018 14:00	1.02	43	n/a	n/a
02/13/2018 15:00	2.79	104	n/a	n/a
02/13/2018 16:00	1.18	45	n/a	n/a
02/13/2018 17:00	0.90	43	n/a	n/a
02/13/2018 18:00	0.61	27	n/a	n/a
02/13/2018 19:00	0	0	n/a	n/a
02/13/2018 20:00	0	0	n/a	n/a
02/13/2018 21:00	0.34	2	n/a	n/a
02/13/2018 22:00	0	0	n/a	n/a
02/13/2018 23:00	0	0	n/a	n/a
Grand Total	0.50	426	---	n/a
03/28/2018 00:00	0	0	n/a	n/a
03/28/2018 01:00	0	0	n/a	n/a
03/28/2018 02:00	0	0	n/a	n/a
03/28/2018 03:00	0.03	1	n/a	n/a
03/28/2018 04:00	0	0	n/a	n/a
03/28/2018 05:00	0.03	1	n/a	n/a
03/28/2018 06:00	0	0	n/a	n/a
03/28/2018 07:00	1.16	46	n/a	n/a
03/28/2018 08:00	1.59	59	n/a	n/a
03/28/2018 09:00	0.10	5	n/a	n/a
03/28/2018 10:00	0.61	13	n/a	n/a
03/28/2018 11:00	0.10	4	n/a	n/a
03/28/2018 12:00	0.23	8	n/a	n/a
03/28/2018 13:00	0.06	3	n/a	n/a
03/28/2018 14:00	0.50	21	n/a	n/a
03/28/2018 15:00	3.16	114	n/a	n/a
03/28/2018 16:00	0.94	24	n/a	n/a
03/28/2018 17:00	0.64	18	n/a	n/a
03/28/2018 18:00	0.16	10	n/a	n/a
03/28/2018 19:00	0.19	4	n/a	n/a
03/28/2018 20:00	1.24	48	n/a	n/a
03/28/2018 21:00	0	0	n/a	n/a
03/28/2018 22:00	0.04	1	n/a	n/a
03/28/2018 23:00	0	0	n/a	n/a
Grand Total	0.45	380	---	n/a
04/19/2018 00:00	0	0	n/a	n/a
04/19/2018 01:00	0	0	n/a	n/a
04/19/2018 02:00	0	0	n/a	n/a
04/19/2018 03:00	0	0	n/a	n/a
04/19/2018 04:00	0	0	n/a	n/a
04/19/2018 05:00	0	0	n/a	n/a
04/19/2018 06:00	0	0	n/a	n/a
04/19/2018 07:00	1.57	54	n/a	n/a
04/19/2018 08:00	1.97	74	n/a	n/a
04/19/2018 09:00	0.21	6	n/a	n/a
04/19/2018 10:00	0.35	15	n/a	n/a
04/19/2018 11:00	0.35	11	n/a	n/a
04/19/2018 12:00	0.32	12	n/a	n/a
04/19/2018 13:00	0.37	13	n/a	n/a
04/19/2018 14:00	0.80	30	n/a	n/a
04/19/2018 15:00	2.94	100	n/a	n/a
04/19/2018 16:00	2.05	79	n/a	n/a
04/19/2018 17:00	0.73	28	n/a	n/a
04/19/2018 18:00	0.37	4	n/a	n/a
04/19/2018 19:00	0.25	3	n/a	n/a
04/19/2018 20:00	0.34	2	n/a	n/a
04/19/2018 21:00	0	0	n/a	n/a
04/19/2018 22:00	0	0	n/a	n/a
04/19/2018 23:00	0	0	n/a	n/a
Grand Total	0.53	431	---	n/a

Doubled Exit B Sensor = 862

Time	In	Out
0:00	0	0
0:15	0	0
0:30	0	0
0:45	0	0
1:00	0	0
1:15	0	0
1:30	0	0
1:45	0	0
2:00	0	0
2:15	0	0
2:30	0	0
2:45	0	0
3:00	0	0
3:15	0	0
3:30	1	0
3:45	0	1
4:00	0	0
4:15	0	0
4:30	0	0
4:45	0	0
5:00	0	0
5:15	0	0
5:30	1	0
5:45	0	0
6:00	1	0
6:15	3	0
6:30	0	0
6:45	2	0
7:00	2	1
7:15	12	0
7:30	41	8
7:45	58	39
8:00	31	26
8:15	5	15
8:30	8	3
8:45	1	6
9:00	4	3
9:15	4	1
9:30	2	0
9:45	4	2
10:00	7	5
10:15	1	5
10:30	3	0
10:45	2	1
11:00	1	5
11:15	5	4
11:30	5	4
11:45	1	2
12:00	3	3
12:15	1	3
12:30	2	1
12:45	5	6
13:00	1	3
13:15	1	3
13:30	2	4
13:45	8	5
14:00	4	0
14:15	5	7
14:30	22	4
14:45	19	31
15:00	25	42
15:15	22	29
15:30	14	15
15:45	9	17
16:00	7	13
16:15	14	4
16:30	11	7
16:45	12	19
17:00	6	20
17:15	5	3
17:30	5	6
17:45	2	8
18:00	1	24
18:15	1	2
18:30	0	0
18:45	0	0
19:00	0	0
19:15	0	0
19:30	0	0
19:45	0	0
20:00	0	0
20:15	0	0
20:30	0	0
20:45	0	0
21:00	0	0
21:15	0	0
21:30	0	2
21:45	0	0
22:00	0	0
22:15	0	0
22:30	0	0
22:45	0	0
23:00	0	0
23:15	0	0
23:30	0	0
23:45	0	0
Total	412	412

Time	In	Out
0:00	0	0
0:15	0	0
0:30	0	0
0:45	0	0
1:00	0	0
1:15	0	0
1:30	0	0
1:45	0	0
2:00	0	0
2:15	0	0
2:30	0	0
2:45	0	0
3:00	0	0
3:15	0	0
3:30	0	0
3:45	0	0
4:00	0	0
4:15	0	0
4:30	0	0
4:45	0	0
5:00	0	0
5:15	0	0
5:30	0	0
5:45	0	0
6:00	0	0
6:15	0	0
6:30	1	1
6:45	0	0
7:00	0	0
7:15	0	0
7:30	0	0
7:45	4	0
8:00	0	4
8:15	0	0
8:30	0	0
8:45	0	0
9:00	0	0
9:15	0	0
9:30	0	0
9:45	1	1
10:00	0	0
10:15	0	0
10:30	0	0
10:45	0	0
11:00	0	0
11:15	0	0
11:30	2	0
11:45	0	1
12:00	0	1
12:15	0	0
12:30	1	0
12:45	0	1
13:00	0	0
13:15	0	0
13:30	0	0
13:45	0	0
14:00	1	0
14:15	1	1
14:30	3	0
14:45	0	0
15:00	0	1
15:15	1	3
15:30	0	0
15:45	0	1
16:00	2	1
16:15	0	1
16:30	1	0
16:45	0	0
17:00	0	1
17:15	0	0
17:30	0	0
17:45	0	0
18:00	0	0
18:15	0	0
18:30	0	0
18:45	0	0
19:00	0	0
19:15	0	0
19:30	0	0
19:45	0	0
20:00	0	0
20:15	0	0
20:30	0	0
20:45	0	0
21:00	0	0
21:15	0	0
21:30	0	0
21:45	0	0
22:00	0	0
22:15	0	0
22:30	0	0
22:45	0	0
23:00	0	0
23:15	0	0
23:30	0	0
23:45	0	0
Total	18	18

Lights			Heavies		
Time	In	Out	Time	In	Out
0:00	0	0	0:00	0	0
0:15	0	0	0:15	0	0
0:30	0	0	0:30	0	0
0:45	0	0	0:45	0	0
1:00	0	0	1:00	0	0
1:15	0	0	1:15	0	0
1:30	0	0	1:30	0	0
1:45	0	0	1:45	0	0
2:00	0	0	2:00	0	0
2:15	0	0	2:15	0	0
2:30	0	0	2:30	0	0
2:45	0	0	2:45	0	0
3:00	0	0	3:00	0	0
3:15	0	0	3:15	0	0
3:30	0	0	3:30	0	0
3:45	1	1	3:45	0	0
4:00	0	0	4:00	0	0
4:15	0	0	4:15	0	0
4:30	0	0	4:30	0	0
4:45	0	0	4:45	0	0
5:00	0	0	5:00	0	0
5:15	0	0	5:15	0	0
5:30	1	0	5:30	0	0
5:45	1	1	5:45	0	0
6:00	2	0	6:00	0	0
6:15	2	0	6:15	0	0
6:30	1	0	6:30	0	0
6:45	3	0	6:45	0	0
7:00	3	0	7:00	0	0
7:15	9	0	7:15	0	0
7:30	24	7	7:30	0	0
7:45	65	40	7:45	4	0
8:00	33	42	8:00	0	4
8:15	6	9	8:15	0	0
8:30	3	5	8:30	0	0
8:45	3	1	8:45	0	1
9:00	0	0	9:00	0	0
9:15	1	1	9:15	0	0
9:30	1	2	9:30	2	1
9:45	1	1	9:45	0	0
10:00	2	3	10:00	0	1
10:15	1	0	10:15	0	0
10:30	2	1	10:30	0	0
10:45	2	4	10:45	0	0
11:00	4	2	11:00	0	0
11:15	3	1	11:15	1	1
11:30	2	2	11:30	0	0
11:45	0	1	11:45	0	0
12:00	1	1	12:00	0	0
12:15	1	2	12:15	2	1
12:30	2	1	12:30	0	1
12:45	1	2	12:45	0	0
13:00	3	0	13:00	0	0
13:15	0	3	13:15	0	0
13:30	2	0	13:30	0	0
13:45	3	2	13:45	0	0
14:00	3	2	14:00	0	0
14:15	3	1	14:15	1	0
14:30	22	1	14:30	3	0
14:45	27	17	14:45	0	0
15:00	25	41	15:00	0	2
15:15	17	35	15:15	1	3
15:30	15	13	15:30	0	0
15:45	6	12	15:45	0	1
16:00	5	8	16:00	1	0
16:15	8	11	16:15	0	1
16:30	3	4	16:30	1	0
16:45	4	6	16:45	0	1
17:00	6	10	17:00	2	1
17:15	5	1	17:15	1	2
17:30	11	2	17:30	2	2
17:45	9	0	17:45	2	2
18:00	5	6	18:00	1	0
18:15	2	3	18:15	1	0
18:30	0	1	18:30	0	0
18:45	0	0	18:45	0	0
19:00	0	0	19:00	0	0
19:15	0	2	19:15	0	1
19:30	1	1	19:30	2	1
19:45	4	0	19:45	0	0
20:00	3	12	20:00	0	1
20:15	3	30	20:15	1	1
20:30	0	17	20:30	1	2
20:45	0	0	20:45	0	0
21:00	0	0	21:00	0	0
21:15	0	0	21:15	0	0
21:30	0	0	21:30	0	0
21:45	0	0	21:45	0	0
22:00	0	0	22:00	0	0
22:15	0	0	22:15	0	0
22:30	0	1	22:30	0	0
22:45	0	0	22:45	0	0
23:00	0	0	23:00	0	0
23:15	0	0	23:15	0	0
23:30	0	0	23:30	0	0
23:45	0	0	23:45	0	0
Total	376	372	Total	29	31

Lights			Heavies		
Time	In	Out	Time	In	Out
0:00	0	0	0:00	0	0
0:15	0	0	0:15	0	0
0:30	0	0	0:30	0	0
0:45	0	0	0:45	0	0
1:00	0	0	1:00	0	0
1:15	0	0	1:15	0	0
1:30	0	0	1:30	0	0
1:45	0	0	1:45	0	0
2:00	0	0	2:00	0	0
2:15	0	0	2:15	0	0
2:30	0	0	2:30	0	0
2:45	0	0	2:45	0	0
3:00	0	0	3:00	0	0
3:15	0	0	3:15	0	0
3:30	0	0	3:30	0	0
3:45	0	0	3:45	0	0
4:00	0	0	4:00	0	0
4:15	0	0	4:15	0	0
4:30	0	0	4:30	0	0
4:45	0	0	4:45	0	0
5:00	0	0	5:00	0	0
5:15	0	0	5:15	0	0
5:30	0	0	5:30	0	0
5:45	1	0	5:45	0	0
6:00	1	0	6:00	0	0
6:15	3	0	6:15	0	0
6:30	2	0	6:30	0	0
6:45	2	0	6:45	0	0
7:00	6	0	7:00	1	1
7:15	14	2	7:15	0	0
7:30	44	4	7:30	0	0
7:45	71	46	7:45	4	1
8:00	33	32	8:00	0	3
8:15	15	26	8:15	0	0
8:30	3	6	8:30	1	0
8:45	1	2	8:45	0	0
9:00	2	0	9:00	1	0
9:15	3	0	9:15	1	2
9:30	2	2	9:30	0	1
9:45	0	0	9:45	0	0
10:00	3	3	10:00	0	0
10:15	1	3	10:15	0	0
10:30	3	4	10:30	0	0
10:45	1	4	10:45	0	0
11:00	1	2	11:00	2	0
11:15	2	2	11:15	0	2
11:30	0	2	11:30	0	0
11:45	3	1	11:45	0	0
12:00	3	3	12:00	0	0
12:15	2	2	12:15	0	0
12:30	7	2	12:30	0	0
12:45	2	5	12:45	0	0
13:00	0	3	13:00	0	0
13:15	2	4	13:15	0	0
13:30	5	4	13:30	0	0
13:45	0	1	13:45	1	1
14:00	2	2	14:00	0	0
14:15	8	7	14:15	2	0
14:30	12	3	14:30	1	0
14:45	25	19	14:45	1	0
15:00	33	24	15:00	1	2
15:15	15	44	15:15	1	3
15:30	3	14	15:30	0	0
15:45	6	9	15:45	1	1
16:00	11	12	16:00	0	0
16:15	11	21	16:15	0	1
16:30	13	19	16:30	0	0
16:45	6	25	16:45	1	0
17:00	5	11	17:00	0	1
17:15	3	5	17:15	0	0
17:30	5	5	17:30	0	0
17:45	3	9	17:45	0	0
18:00	2	2	18:00	0	0
18:15	0	0	18:15	0	0
18:30	0	1	18:30	0	0
18:45	0	0	18:45	0	0
19:00	1	1	19:00	0	0
19:15	1	1	19:15	0	0
19:30	0	0	19:30	0	0
19:45	1	1	19:45	0	0
20:00	0	0	20:00	0	0
20:15	0	0	20:15	0	0
20:30	0	0	20:30	0	0
20:45	0	2	20:45	0	0
21:00	0	0	21:00	0	0
21:15	0	0	21:15	0	0
21:30	0	0	21:30	0	0
21:45	0	0	21:45	0	0
22:00	0	0	22:00	0	0
22:15	0	0	22:15	0	0
22:30	0	0	22:30	0	0
22:45	0	0	22:45	0	0
23:00	0	0	23:00	0	0
23:15	0	0	23:15	0	0
23:30	0	0	23:30	0	0
23:45	0	0	23:45	0	0
Total	404	402	Total	19	19