



**Public Works Committee Meeting**  
**Monday, October 8, 2018 at 6:00 pm**  
**Whitefish Bay Library Upstairs Meeting Room**

**AGENDA**

1. Call to Order
2. Review and Approve minutes of September 10, 2018 Public Works Committee Meeting
3. Bay Ridge Traffic Volume, Speed and Roadway Safety Review
4. 2018 Project Update
5. Next scheduled meeting - **Monday, November 5, 2018 @ 6:00pm (tentative)**
6. Adjournment

Posted: October 4, 2018

Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. Contact Whitefish Bay Village Hall at (414) 962-6690. It is possible that members of and possibly a quorum of members of other Boards, Commissions, or Committees of the Village including in particular the Village Board, may be in attendance in the above stated meeting to gather information; no action will be taken by any other Boards, Commissions, or Committees of the Village except by the Board, Commission, or Committee noticed above. Agendas and minutes are available on the Village website ([www.wfbvillage.org](http://www.wfbvillage.org))

Cc: Village Board; Village Manager, Department Heads; Village Attorney



## **Public Works Committee Minutes**

**Monday, September 10, 2018, at 6:00 pm**

**Whitefish Bay Library Program Room**

### **I. Call to Order and Roll Call:**

The meeting was called to order at 6:00 pm

Present: Trustee Miller (Chairman), Trustee Serebin, Trustee Davis, Tom Kindschi, John Dargle

Also Present: Paul Boening – Village Manager, John Edlebeck – Public Works Director, Tim Blakeslee – Assistant Village Manager

### **II. Review and Approve minutes of June 11, 2018, Public Works Committee Meeting:**

Tom Kindschi moved to approve the minutes of the June 11, 2018, Public Works Committee Meeting. Trustee Serebin seconded. Motion passed 5-0.

### **III. Review Whitefish Bay Garden Club request – Hampton Avenue median island flower beds**

Pat Santilli (710 E Carlisle Ave) with the Whitefish Bay Garden Club described their requested project about planting flowers within four flower beds on Hampton. Ms. Santilli has worked with Village Staff regarding the locations and planting varieties.

Tom Kindschi noted that black-eyed Susan's spread quickly and may not be the best choice. Ms. Santilli agreed and said they wouldn't plant those. John Dargle asked about planter size. Ms. Santilli said they would be similar to the ones already in the Village. Trustee Serebin asked about giving credit to the Garden Club and what the Village could do. John Edlebeck said they would look into signage.

Tom Kindschi moved to approve the Whitefish Bay Garden Club request. Trustee Serebin seconded. Motion passed 5-0.

### **IV. Bay Ridge Traffic Volume, Speed and Roadway Safety Review**

Public Works Director John Edlebeck introduced the topic and described that the Village met with residents in May and decided to complete a study with TADI to review roadway safety. Edlebeck described the four attachments from TADI. John Dargle asked what AADT stands

for? Edlebeck said it stands for Average Annual Daily Traffic. Edlebeck described the industry standard for traffic speed is the 85<sup>th</sup> percentile. Trustee Miller and Edlebeck encouraged public comment on the study and issue.

Debbie Van Bell (6100 N Bay Ridge Ave) stated the study does not catch near misses and there are lots of kids in the area. She would like to see yield sign to stop sign at Monrovia. Would like to see a 4 way or 2 way stop. Trustee Serebin asked what corner Ms. Van Bell lived for reference. Edlebeck discussed stop signs and yield signs.

Dan Ketman (5923 N Bay Ridge Ave) believes there needs to be a 4 way stop at Monrovia. He mentioned that there was a crash that ended up on a driveway. He believes the speed gun was in the wrong place. He wanted to know additional details about the study and wanted to drill down, particularly the max speed on Bay Ridge. Thought the numbers on Bay Ridge means that there are four times as many issues than the other streets.

Catherine Ferguson (6075 N Bay Ridge Ave) she mentioned that this is the only block with yields and she has personally seen two accidents and that a car was in a front lawn.

Doug Johnson (5977 N Bay Ridge Ave) describe the route he thinks most traffic takes and that vehicles do not stop at eastbound Montclair to southbound Bay Ridge. He says that he has two videos of people running stop signs. He has personally asked drivers to slow down.

Catherine Amato (6009 N Bay Ridge Ave) believes that not enough people are fully stopping at stop signs and that there needs to be a comprehensive approach. She described the letter from residents to the Village.

Matt Jellencheck (6025 N Bay Ridge Ave) said there is a lot of data in this report that more analysis needs to be completed. He mentioned that traffic counts is a volume issue and the traffic is not from the residents, but people trying to cut south. He wanted to know what the 85<sup>th</sup> percentile speed was on Kent and Shoreland. He doesn't believe the road can accommodate the volume. He mentioned this study done in the 1980's and the collector street is supposed to be Lydell. He mentioned that there are a lot of kids on this street. Wants to come up with outside the box solutions.

Nate Collins (6049 N Bay Ridge Ave) wanted to see more details of the traffic study. Would like to see stop signs, speed bumps, and other ways to divert traffic.

Andy Cops (6129 N Bay Ridge Ave) He mentioned that Dominican was not in session during the study and that two home remodel projects probably slowed down the speeds.

Trustee Miller thanked everyone for attending and providing comments. He opened the discussion to the Public Works Committee. Trustee Serebin asked if there are warrants for speed bumps. Edlebeck said that there are not any warrants, but that they have not been used in the past and that and sometimes make the area more dangerous if cars are speeding. Trustee Serebin asked if the street could be made one-way. Edlebeck said that there are no specific warrants for a one-way street, but they are not the normal traffic pattern for the village. Traffic would be pushed to another street if it was one-way. Trustee Davis does not believe that this route is just for people to get to Bay Shore and that people are

trying to get south to Silver Spring and beyond. A solution would need to make the route more inconvenient. However, Trustee Davis does not think that a one-way street is a good idea.

John Dargle asked if TADI had come up with any recommendations yet. Edlebeck said that they have not and that they were just completing the study at this time. Edlebeck mentioned that the study's results appear valid and that it matches a study done in the same area last year. He mentioned that the speed camera was located mid-block.

Tom Kindschi mentioned that if it was one-way cars would drive faster because they have more room to drive. The TADI representative confirms that and also said parked cars help to slow down traffic.

There was additional feedback from the audience. Trustee Miller mentioned that the Public Works committee believes this is an issue that needs to be taken seriously. There was a discussion about what had previously been done regarding the intersection, where the speed box was placed, and the speed going north vs. going south. TADI mentioned that traffic will follow the easiest path to get to a destination and will work with the Village come up with recommendations.

There was a discussion about traffic patterns including no right turns and a one-way street. There was further discussion about enforcement at stop signs. Edlebeck described that there are things that the residents can do as a group such as slowdown signs and reminding their neighbors to keep the speed down. There was a discussion amongst the board about a timeline for moving forward.

John Dargle asked if they should be making a recommendation tonight. Trustee Miller suggested waiting until we have seen the recommendations from staff. Edlebeck said that the group would work over the next month to come up with some recommendations and can present them at the next Public Works Committee Meeting.

**V. Project Updates:**

- PPII – Should be finished by the end of the week.
- Rain Events – Village systems were not the cause of any backups and the lift station worked well.
- Sidewalk Replacement Project – Project will be under construction in September and October.
- Village Hall – Village Hall is near completion.
- Flashing Light – The light at Palisades was installed as planned.

**VI. Next scheduled meeting – Monday, October 8, 2018, at 6 pm**

**VII. Trustee Serebin moved to adjourn at 7:22 pm. Trustee Miller seconded. Motion passed 5-0.**



## Village of Whitefish Bay Public Works Department

155 W. Fairmount Ave • Whitefish Bay, Wisconsin 53217 • (414) 962-6690 • Fax (414) 967-1391

John Edlebeck, P.E., Director of Public Works

October 3, 2018

Memo to: Chairman Miller and Members of the Public Works Committee

From: John Edlebeck, P.E., Director of Public Works

Re: **Traffic Volume, Speed and Roadway Safety Review**

**Bay Ridge Avenue: Devon Street to Belle Avenue**

The Village in mid May, 2018 received several requests from residents on Bay Ridge Avenue to review traffic volumes, speed and roadway safety in their neighborhood. On May 23, 2018 the Village commissioned the traffic engineering consulting firm TADI (Traffic Analysis and Design Inc.) to perform a traffic volume, speed and safety study for the above referenced section of Bay Ridge Avenue.

Specifically the study scope was to address the following:

- Review submitted written resident requests
- Prepare intersection collision diagrams from accident reports over the past 5 years
- Review vehicle speed study results
- Complete traffic volume counts
- Document existing intersection traffic control in the area

The Village Public Works Committee met on Monday, September 10 at 6:00pm in the Whitefish Bay Public Library 2<sup>nd</sup> floor meeting room and discussed the above agenda item with Village Staff and those residents that attended the meeting. At that time it was requested of Village Staff to review this matter further with TADI and present recommendations at the next Public Works Committee meeting.

Both Village Staff and TADI agree that this section of roadway in our Village acts as a “neighborhood collector” roadway, much like Birch Ave., Lexington Blvd., Fairmount Ave., Courtland Pl. and Cumberland Blvd., as well as other roadways in Village. Attempting to change the desired travel path of drivers without dramatic roadway access restrictions can be very difficult.

Speed reduction measures however can be implemented and are proven to be successful. As the attached chart shows, the 4% of traffic exceeding 30mph in the Bay Ridge Avenue speed study (5+ mph over the speed limit) is in the middle of the pack as compared to other recent WFB Police Department speed studies of other roadways in the Village. It is that 4% that we are attempting to target for speed reduction.

**The following Village Staff / TADI recommendations are deemed to be measured responses to the vehicular traffic volume and prevailing speed experienced on this section of Bay Ridge Avenue:**

1. The previous completed traffic control study was re-evaluated for the Bay Ridge Avenue / Monrovia Avenue intersection. Utilizing most current accident data, it is the belief of both Village Staff and TADI that the conversion of the Monrovia Avenue yield control to stop control will provide a safer intersection for motorists, pedestrians and bicyclists. The recommendation then is to replace the existing 2 way yield control on Monrovia Avenue with 2 way stop control. Sight distance at that intersection is deemed to be in compliance with Village ordinance.
2. Installation of additional speed limits signs both for north and south bound traffic with some form of color attention added to the signs.
3. Encourage a neighborhood campaign to promote driver attentiveness and speed reduction within and between neighbors. This could include signage on private property, email reminders, handout / fliers, block party events, etc....
4. Periodic use of the pole mounted WFB Police Department radar speed sign with display-on to encourage 25mph speed zone compliance.
5. Periodic live WFB Police Department staff enforcement of 25mph speed zone and stop sign compliance.
6. Encourage on-street vehicle parking as it is a proven means to achieve traffic speed reduction.
7. Perform crosswalk and stop bar striping at all intersections identified in the scope of this study to again raise driver awareness and stop control compliance.
8. Install "stop here with arrow" signs at strategic locations to encourage full vehicle stops.
9. Village Staff continue to evaluate and receive comments from residents as to the effectiveness of implemented measures and to the need for additional traffic speed and volume measures.

If the Public Works Committee concurs with any of the above recommendations, a motion to officially forward said recommendations to the Whitefish Bay Village Board for discussion and possible action would be appropriate.



Generated by David Hryniewicki from Village of Whitefish Bay on Jun 16, 2018 at 1:54:52 PM

Time of Day: 0:00 to 23:59

Dates: 6/7/2018 to 6/16/2018

Medium Risk Threshold: Speed Limit + 10

High Risk Threshold: Speed Limit + 20

Time View: By Hour (Avg Volumes)

Speed Bins: Size 5, Range 1 to 100

Site: Bay Ridge Ave, 6049 N. Bay Ridge, SB

Date/Time Range	Speed Limit	Mode	Compliant	Low Risk	Medium Risk	High Risk	Total Num Vehicles
0:00	25	Display Off	3	1	0	0	4
1:00	25	Display Off	2	1	0	0	2
2:00	25	Display Off	4	1	0	0	4
3:00	25	Display Off	1	1	0	0	3
4:00	25	Display Off	6	1	0	0	7
5:00	25	Display Off	6	2	0	0	8
6:00	25	Display Off	11	11	0	0	22
7:00	25	Display Off	32	29	0	0	61
8:00	25	Display Off	43	22	0	0	65
9:00	25	Display Off	54	25	0	0	80
10:00	25	Display Off	63	27	0	0	90
11:00	25	Display Off	65	28	0	0	94
12:00	25	Display Off	69	27	0	0	96
13:00	25	Display Off	57	26	0	0	84
14:00	30,25	Display Off	57	26	0	0	83
15:00	30,25	Display Off	76	23	0	0	98
16:00	30,25	Display Off	87	31	0	0	119
17:00	30,25	Display Off	82	25	0	0	107
18:00	25	Display Off	60	19	0	0	79
19:00	25	Display Off	46	15	0	0	61
20:00	25	Display Off	41	10	0	0	51
21:00	25	Display Off	23	7	0	0	30
22:00	25	Display Off	9	4	0	0	13
23:00	25	Display Off	4	1	0	0	5
<b>Avg # Vehicles</b>			<b>38</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>53</b>

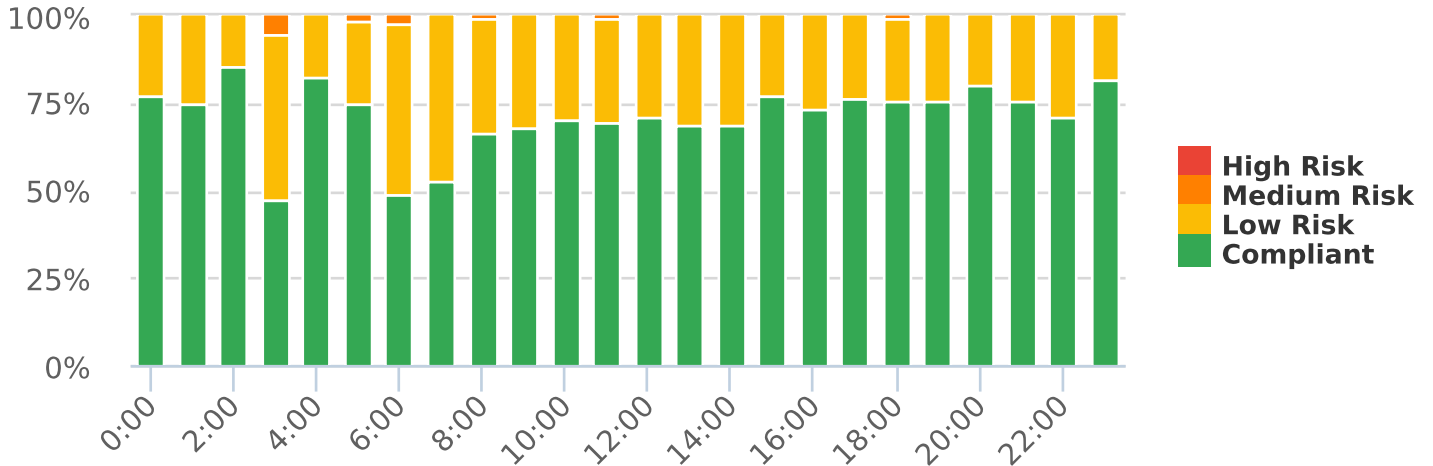
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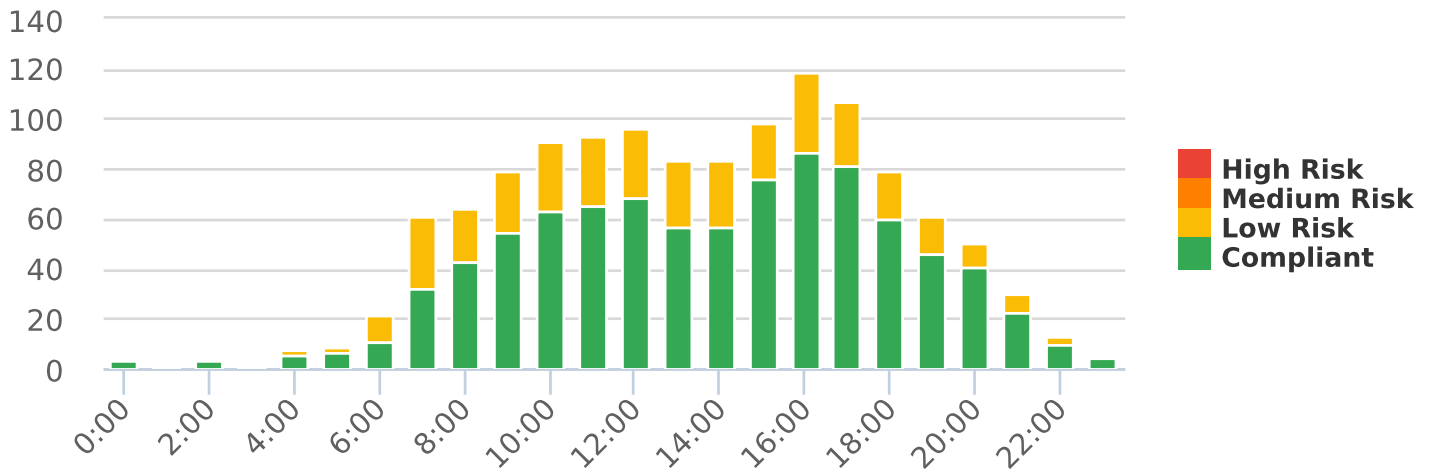
Time of Day: 0:00 to 23:59  
 Dates: 6/7/2018 to 6/16/2018  
 Medium Risk Threshold: Speed Limit + 10  
 High Risk Threshold: Speed Limit + 20

Time View: By Hour (Avg Volumes)  
 Speed Bins: Size 5, Range 1 to 100  
 Site: Bay Ridge Ave, 6049 N. Bay Ridge, SB

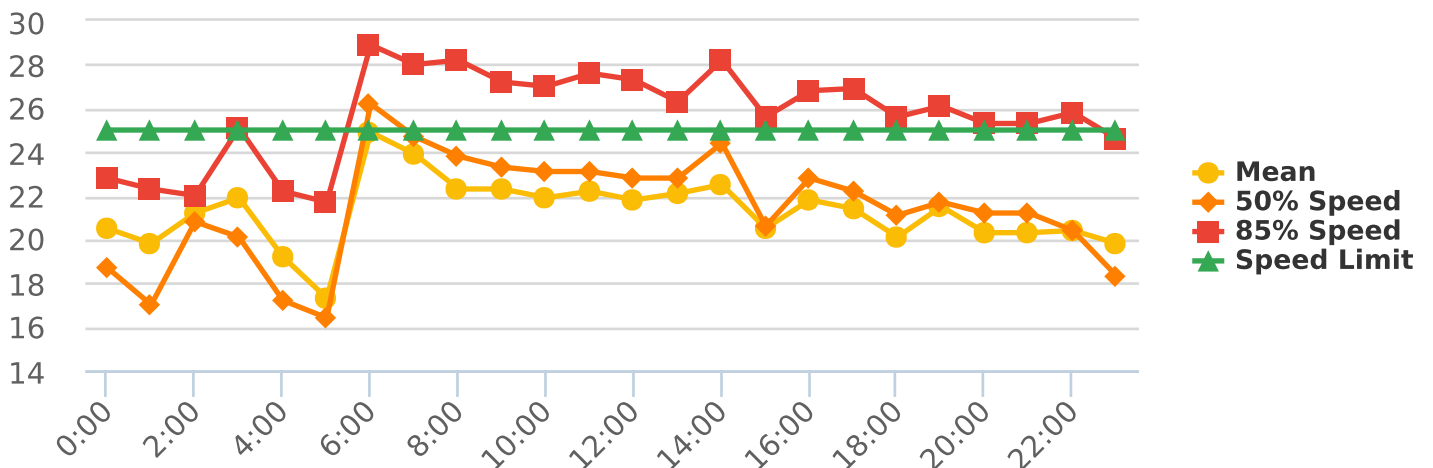
Compliance % by Hour



Compliance by Hour



Speeds





Generated by David Hryniewicki from Village of Whitefish Bay on Jun 16, 2018 at 1:56:10 PM



Violation Threshold: Speed Limit + 10  
Time of Day: 0:00 to 23:59  
Dates: 6/7/2018 to 6/16/2018

Rank Results By: 85% Speed  
Speed Bins: Size 5, Range 1 to 100  
Site: Bay Ridge Ave, 6049 N. Bay Ridge, SB

#	Site	Day of Week	Time	Speed Limit	Average Speed	Average Violator Speed	85% Speed	Average # Vehicles	Average # Violators
1	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Wednesday	7:00 - 8:00	25	23.5	36.0	30.5	60.0	1.0
2	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Sunday	8:00 - 9:00	25	25.0	0.0	30.0	35.0	0.0
3	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Thursday	6:00 - 7:00	25	27.0	37.0	30.0	31.0	3.0
4	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Monday	7:00 - 8:00	25	24.5	0.0	29.5	88.0	0.0
5	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Sunday	11:00 - 12:00	25	25.0	36.0	29.0	45.0	1.0
6	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Tuesday	6:00 - 7:00	25	24.0	37.0	29.0	23.0	1.0
7	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Tuesday	10:00 - 11:00	25	23.5	0.0	29.0	94.0	0.0
8	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Wednesday	8:00 - 9:00	25	22.0	0.0	29.0	64.0	0.0
9	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Thursday	9:00 - 10:00	25	23.0	0.0	29.0	103.0	0.0
10	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Saturday	8:00 - 9:00	25	23.5	0.0	29.0	45.5	0.0
11	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Saturday	19:00 - 20:00	25	25.5	0.0	29.0	49.0	0.0
12	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Monday	10:00 - 11:00	25	24.0	0.0	28.5	79.0	0.0
13	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Thursday	7:00 - 8:00	25	24.5	38.0	28.5	65.0	1.0
14	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Friday	6:00 - 7:00	25	24.0	0.0	28.5	25.5	0.0
15	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Friday	14:00 - 15:00	25	23.0	36.0	28.5	100.5	0.5
16	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Saturday	11:00 - 12:00	25	23.0	36.0	28.5	104.0	0.5
17	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Saturday	7:00 - 8:00	25	24.8	0.0	28.3	46.5	0.0
18	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Sunday	12:00 - 13:00	25	24.0	0.0	28.0	54.0	0.0
19	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Sunday	13:00 - 14:00	25	24.5	0.0	28.0	47.0	0.0
20	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Sunday	14:00 - 15:00	25	23.0	0.0	28.0	67.0	0.0
21	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Sunday	16:00 - 17:00	25	23.0	37.0	28.0	53.0	1.0
22	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Sunday	17:00 - 18:00	25	22.0	0.0	28.0	61.0	0.0
23	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Sunday	18:00 - 19:00	25	23.0	0.0	28.0	48.0	0.0
24	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Monday	8:00 - 9:00	25	23.0	0.0	28.0	86.0	0.0
25	Bay Ridge Ave, 6049 N. Bay Ridge, SB	Monday	14:00 - 15:00	25	21.0	0.0	28.0	81.0	0.0



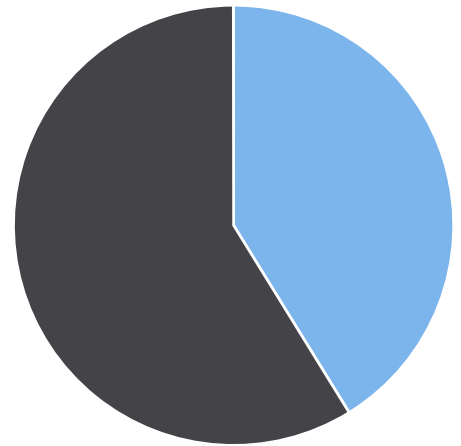
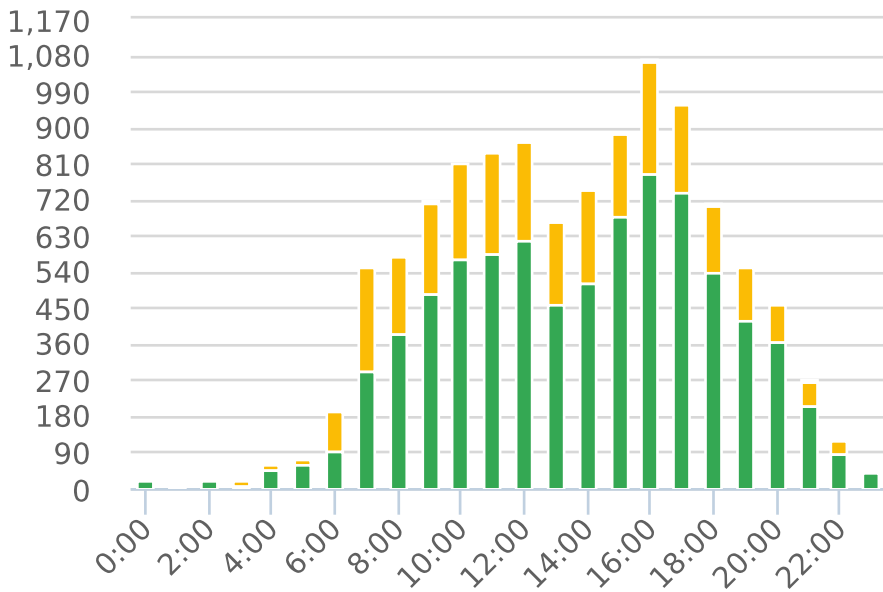
Time of Day: 0:00 to 23:59  
 Dates: 6/7/2018 to 6/16/2018

Site: Bay Ridge Ave, 6049 N. Bay Ridge, SB

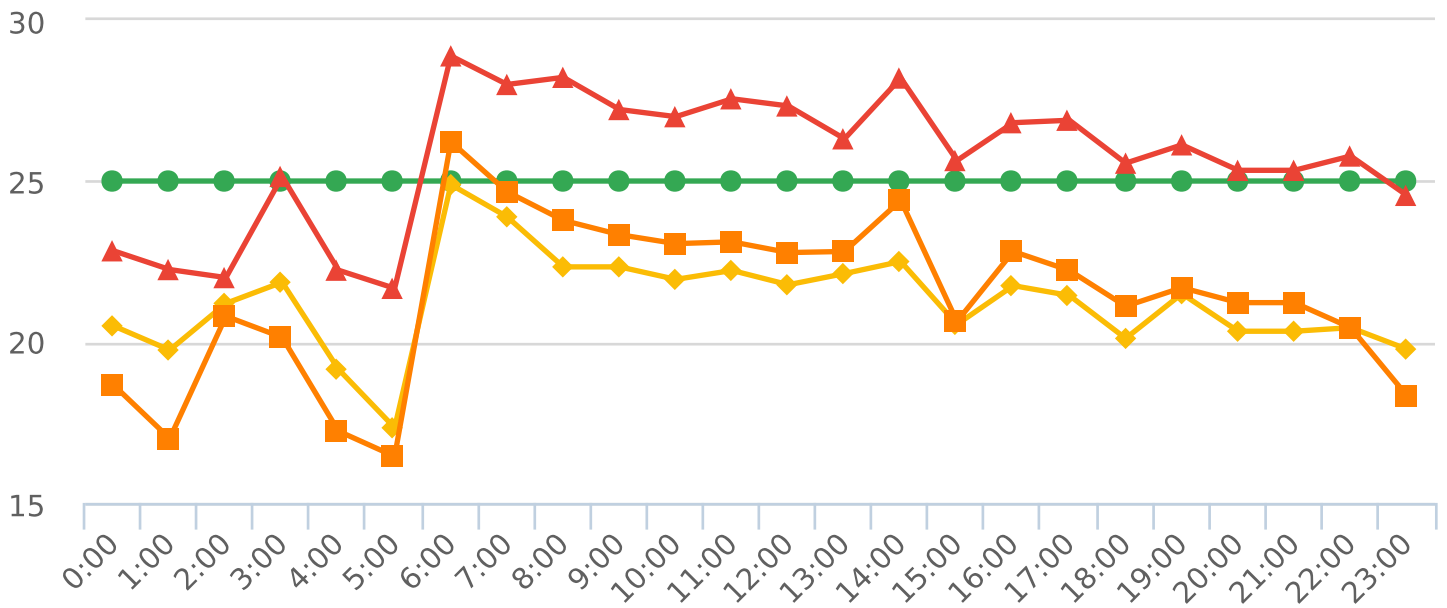
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Total Days of Data: 10  
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 Average Speed: 21.25  
 50th Percentile Speed: 21.42  
 85th Percentile Speed: 25.7  
 Pace Speed Range: 18.0-28.0

Minimum Speed: 5.0  
 Maximum Speed: 41.0  
 Display Status: Display Off  
 Average Volume per Day: 1126.2  
 Total Volume: 11262.0



■ Violators   
 ■ Inside Threshold   
 ■ Compliant   
 ■ Vehicles Slowed   
 ■ Other



◆ Speed Limit   
 ◆ Average Speed   
 ◆ 50% Speed   
 ◆ 85% Speed



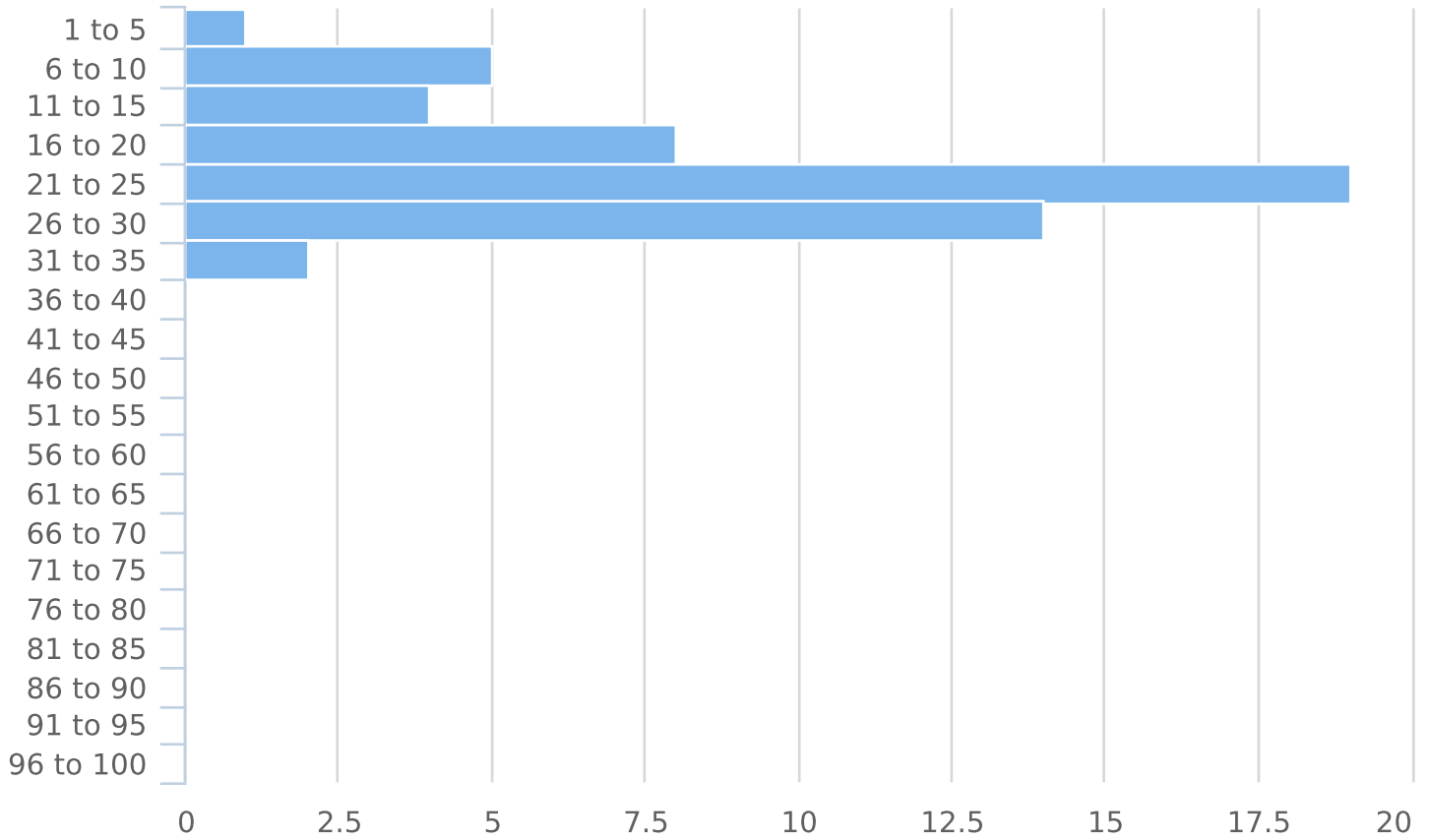




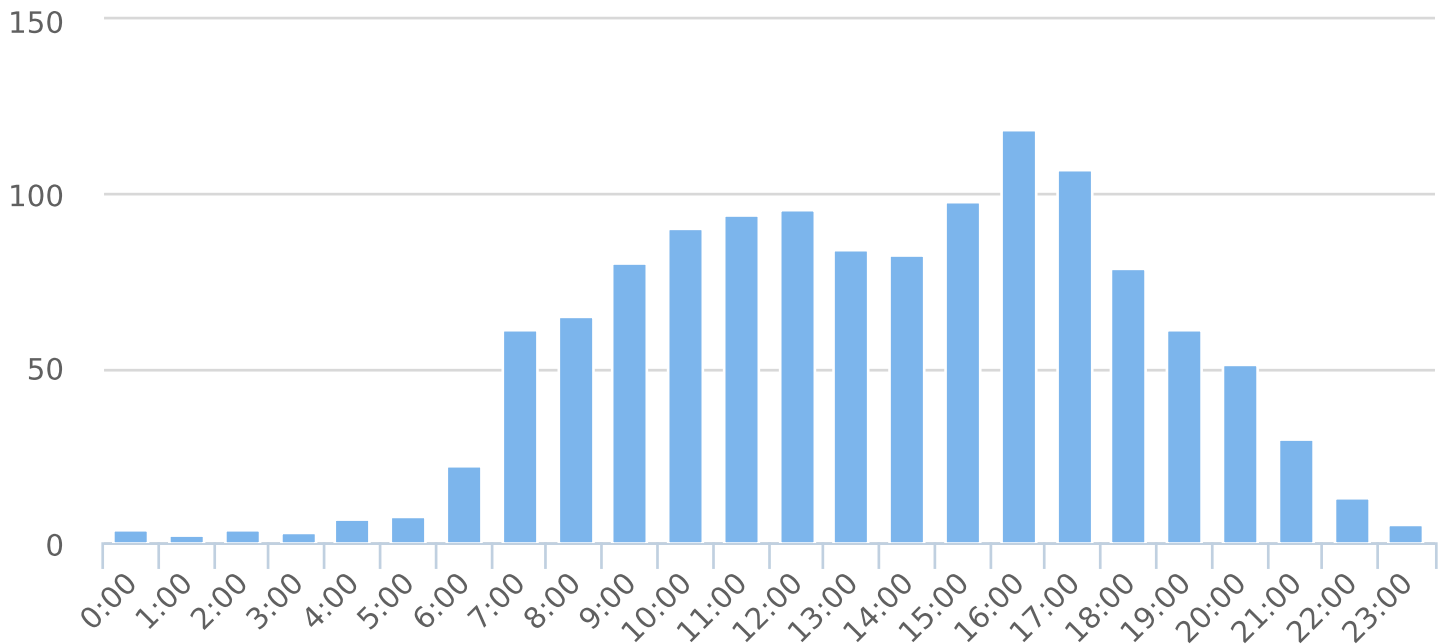
Time of Day: 0:00 to 23:59  
 Dates: 6/7/2018 to 6/16/2018

Time View: By Hour (Avg Volumes)  
 Speed Bins: Size 5, Range 1 to 100  
 Site: Bay Ridge Ave, 6049 N. Bay Ridge, SB

Average Vehicles by Speed Bin



Average Volume by Hour





# Volume By Speed Report

Generated by David Hryniewicki from Village of Whitefish Bay on Jun 16, 2018 at 1:58:42 PM

Time View: By Day of Week (Avg Volumes)

Speed Bins: Size 5, Range 1 to 100

Site: Bay Ridge Ave, 6049 N. Bay Ridge, SB

Time of Day: 0:00 to 23:59

Dates: 6/7/2018 to 6/16/2018

Day of Week	Spd Lim	1 to 5	6 to 10	11 to 15	16 to 20	21 to 25	26 to 30	31 to 35	36 to 40	41 to 45	46 to 50	51 to 55	56 to 60	61 to 65	66 to 70	71 to 75	76 to 80	81 to 85	86 to 90	91 to 95	96 to 100	Avg Spd	Avg #
Sun	25	10	37	40	103	263	217	40	2	0	0	0	0	0	0	0	0	0	0	0	0	20.9	712
Mon	25	13	92	86	178	498	369	46	2	0	0	0	0	0	0	0	0	0	0	0	0	22.7	1284
Tue	25	13	74	82	185	472	347	54	6	0	0	0	0	0	0	0	0	0	0	0	0	22.4	1233
Wed	25	23	109	102	226	512	339	42	3	0	0	0	0	0	0	0	0	0	0	0	0	21.7	1356
Thu	25	8	62	79	162	377	260	32	4	1	0	0	0	0	0	0	0	0	0	0	0	22.5	982
Fri	25	67	269	162	231	425	298	44	3	0	0	0	0	0	0	0	0	0	0	0	0	19.5	1497
Sat	25	9	45	53	115	334	263	42	2	0	0	0	0	0	0	0	0	0	0	0	0	21.7	860
<b>Avg #</b>		20	98	86	171	412	299	43	3	0	0	0	0	0	0	0	0	0	0	0	0	21.6	1132



Time View: By Day of Week (Avg Volumes)

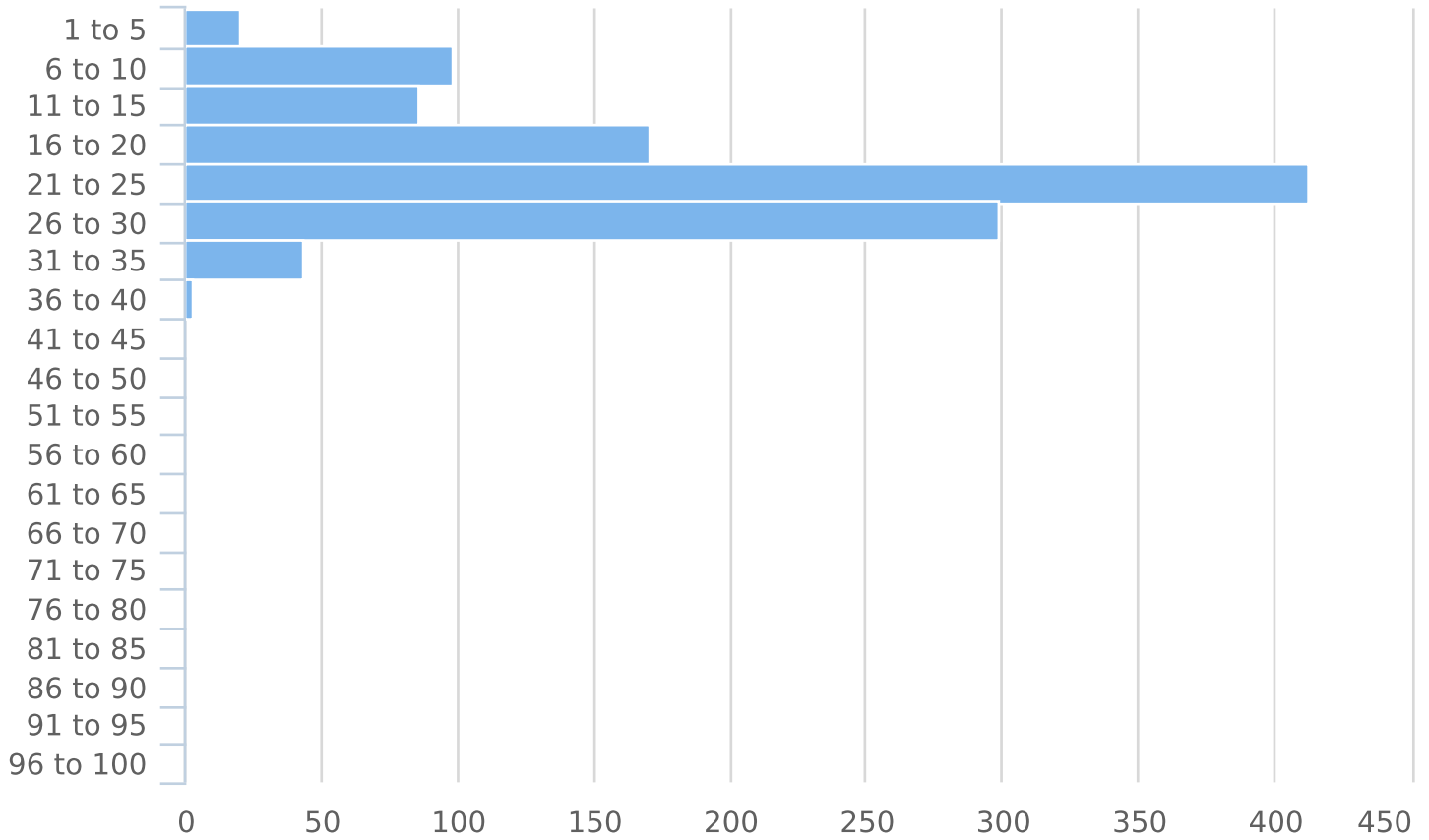
Speed Bins: Size 5, Range 1 to 100

Site: Bay Ridge Ave, 6049 N. Bay Ridge, SB

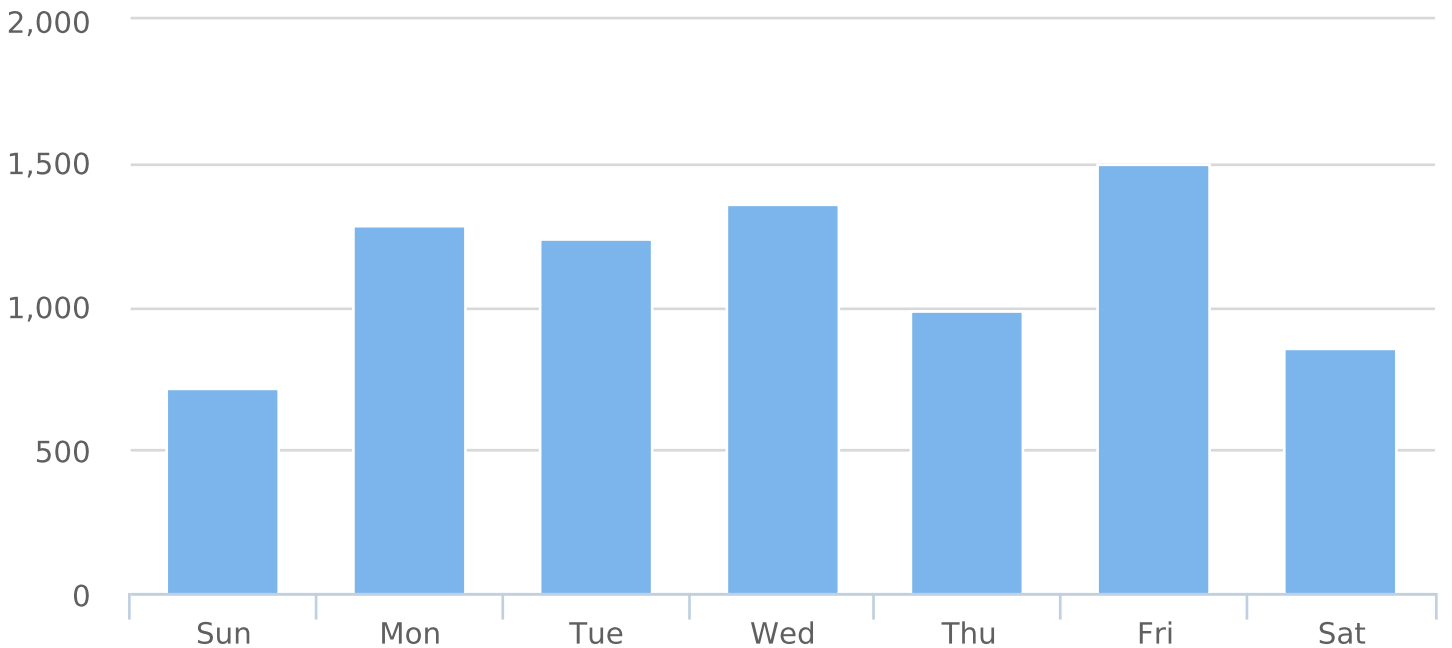
Time of Day: 0:00 to 23:59

Dates: 6/7/2018 to 6/16/2018

Average Vehicles by Speed Bin



Average Volume by Day of Week





# Volume By Time Report

Generated by David Hryniewicki from Village of Whitefish Bay on Jun 16, 2018 at 1:59:37 PM

Time View: By Day of Week (Avg Volumes)

Speed Bins: Size 5, Range 1 to 100

Site: Bay Ridge Ave, 6049 N. Bay Ridge, SB

Time of Day: 0:00 to 23:59

Dates: 6/7/2018 to 6/16/2018

Day of Week	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total
Sun	1	2	0	4	14	4	5	22	35	37	51	45	54	47	67	74	53	61	48	37	24	15	9	3	712
Mon	0	2	2	3	12	8	19	88	86	78	79	97	89	72	81	93	124	126	70	59	44	40	5	7	1284
Tue	1	2	1	3	8	6	23	61	81	88	94	107	94	61	94	76	103	91	82	70	57	15	12	3	1233
Wed	6	0	2	4	6	12	36	60	64	65	91	132	104	110	89	102	92	116	75	63	71	35	17	4	1356
Thu	0	0	0	1	4	8	16	33	36	52	62	39	52	37	56	107	118	109	96	59	57	33	12	2	982
Fri	6	1	1	2	4	11	26	82	78	86	77	89	103	99	101	120	167	142	101	78	64	37	19	10	1497
Sat	7	0	15	1	2	10	30	93	91	174	221	208	217	107	104	87	126	65	42	49	19	26	17	9	1720
Avg #	3	1	3	3	7	8	22	63	67	83	96	102	102	76	85	94	112	101	73	59	48	29	13	5	1255





Generated by David Hryniewicki from Village of Whitefish Bay on Jun 16, 2018 at 1:59:37 PM

Time View: By Day of Week (Avg Volumes)

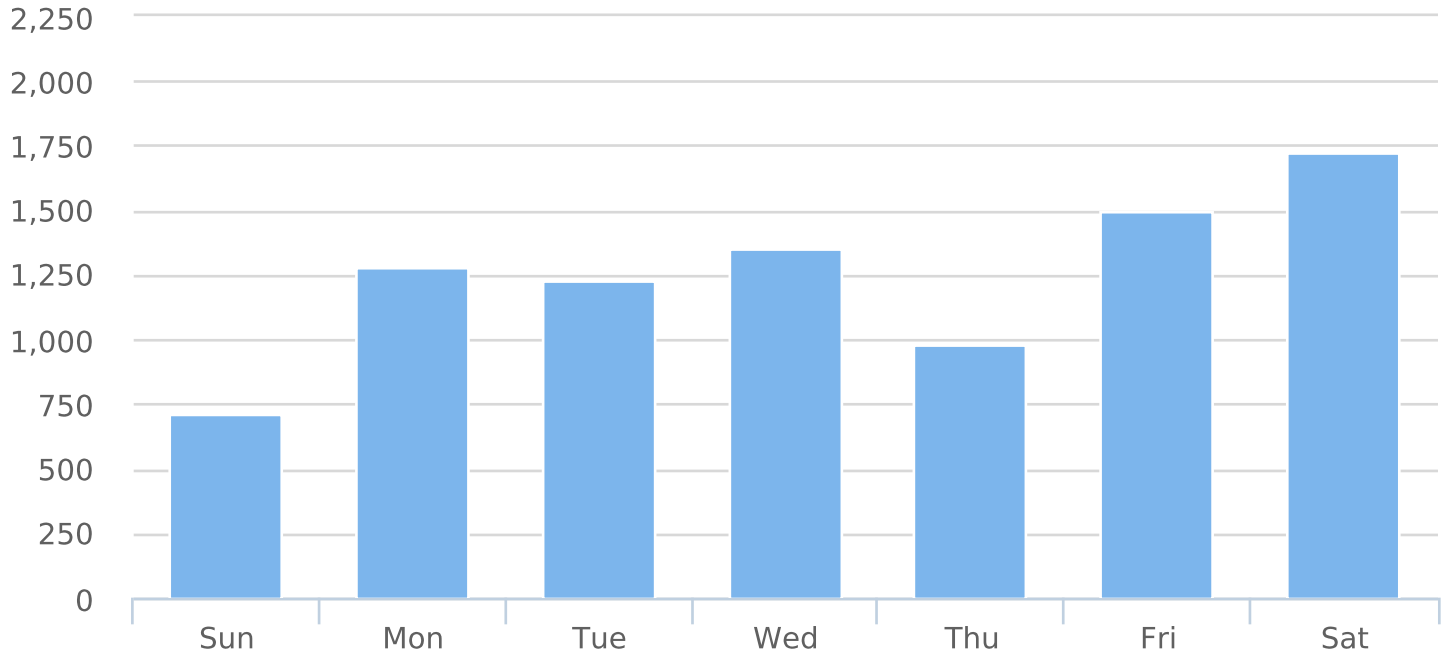
Speed Bins: Size 5, Range 1 to 100

Site: Bay Ridge Ave, 6049 N. Bay Ridge,  
SB

Time of Day: 0:00 to 23:59

Dates: 6/7/2018 to 6/16/2018

## Volume by Day





Generated by David Hryniewicki from Village of Whitefish Bay on Jun 25, 2018 at 1:41:2 PM

Time of Day: 0:00 to 23:59

Dates: 6/16/2018 to 6/24/2018

Medium Risk Threshold: Speed Limit + 10

High Risk Threshold: Speed Limit + 20

Time View: By Hour (Avg Volumes)

Speed Bins: Size 5, Range 1 to 100

Site: 5924 N. Bay Ridge, NB

Date/Time Range	Speed Limit	Mode	Compliant	Low Risk	Medium Risk	High Risk	Total Num Vehicles
0:00	25	Display Off	2	1	0	0	3
1:00	25	Display Off	1	1	0	0	2
2:00	25	Display Off	3	0	0	0	3
3:00	25	Display Off	0	0	0	0	0
4:00	25	Display Off	3	0	0	0	3
5:00	25	Display Off	1	2	0	0	3
6:00	25	Display Off	5	4	0	0	9
7:00	25	Display Off	22	10	0	0	32
8:00	25	Display Off	29	17	0	0	46
9:00	25	Display Off	29	12	0	0	41
10:00	25	Display Off	26	9	0	0	35
11:00	25	Display Off	30	12	0	0	42
12:00	25	Display Off	31	11	0	0	42
13:00	25	Display Off	28	12	0	0	40
14:00	25	Display Off	30	14	0	0	44
15:00	25	Display Off	36	13	0	0	50
16:00	25	Display Off	37	16	0	0	53
17:00	25	Display Off	36	17	0	0	53
18:00	25	Display Off	28	13	0	0	41
19:00	25	Display Off	20	6	0	0	27
20:00	25	Display Off	20	5	0	0	25
21:00	25	Display Off	11	2	0	0	13
22:00	25	Display Off	5	2	0	0	7
23:00	25	Display Off	4	2	0	0	5
<b>Avg # Vehicles</b>			<b>18</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>26</b>

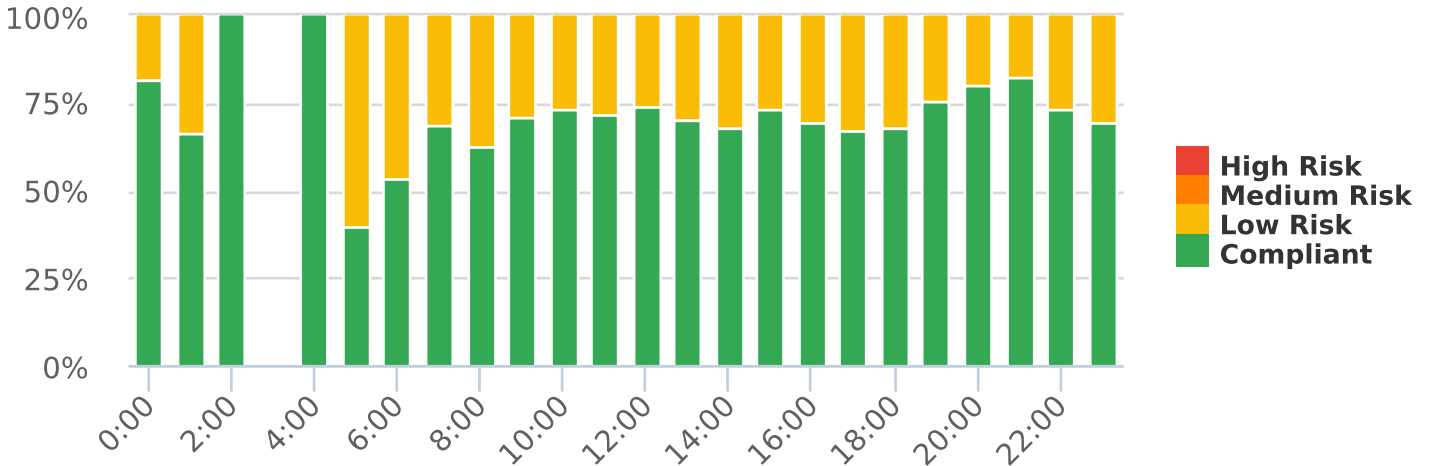
Generated by David Hryniewicki from Village of Whitefish Bay on Jun 25, 2018 at 1:41:2 PM



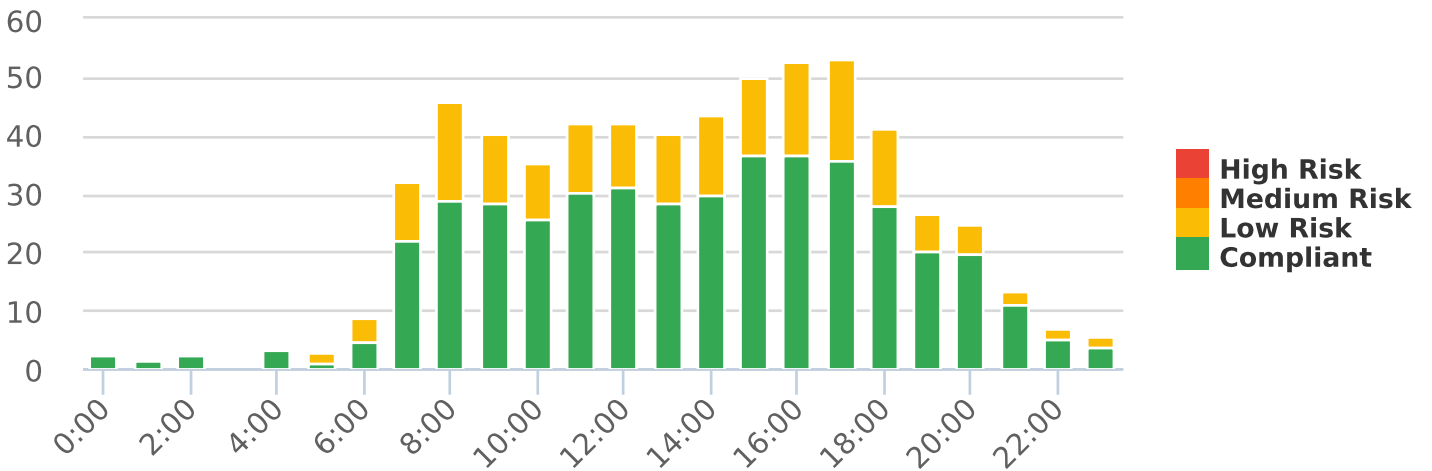
Time of Day: 0:00 to 23:59  
 Dates: 6/16/2018 to 6/24/2018  
 Medium Risk Threshold: Speed Limit + 10  
 High Risk Threshold: Speed Limit + 20

Time View: By Hour (Avg Volumes)  
 Speed Bins: Size 5, Range 1 to 100  
 Site: 5924 N. Bay Ridge, NB

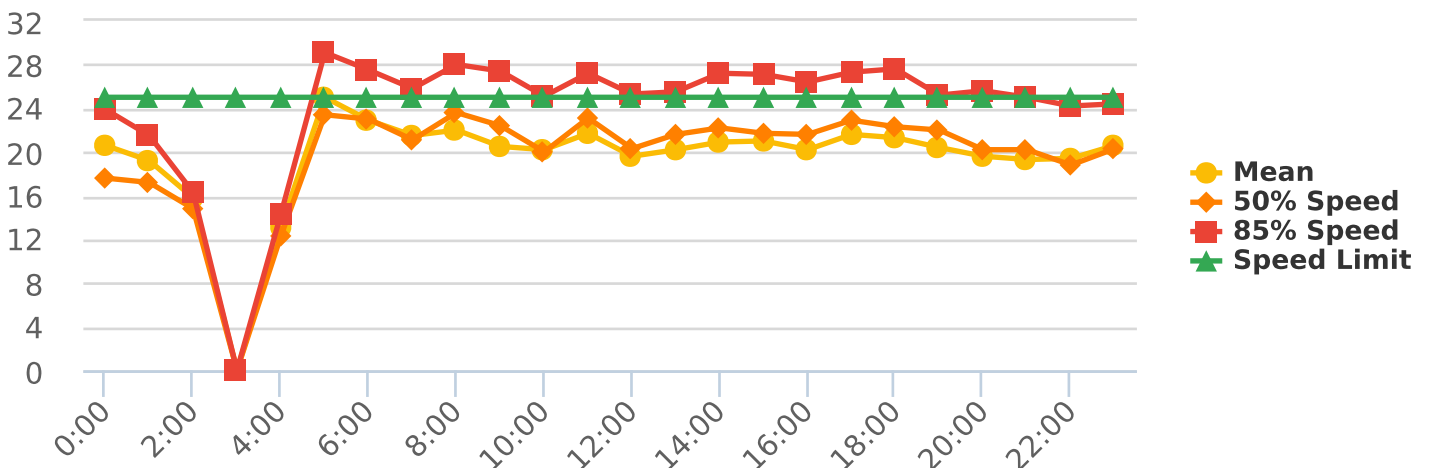
Compliance % by Hour



Compliance by Hour



Speeds



Generated by David Hryniewicki from Village of Whitefish Bay on Jun 25, 2018 at 1:43:2 PM



Violation Threshold: Speed Limit + 10  
Time of Day: 0:00 to 23:59  
Dates: 6/16/2018 to 6/24/2018

Rank Results By: 85% Speed  
Speed Bins: Size 5, Range 1 to 100  
Site: 5924 N. Bay Ridge, NB

#	Site	Day of Week	Time	Speed Limit	Average Speed	Average Violator Speed	85% Speed	Average # Vehicles	Average # Violators
1	5924 N. Bay Ridge, NB	Tuesday	11:00 - 12:00	25	24.0	0.0	30.0	23.0	0.0
2	5924 N. Bay Ridge, NB	Saturday	11:00 - 12:00	25	22.0	0.0	30.0	46.0	0.0
3	5924 N. Bay Ridge, NB	Monday	8:00 - 9:00	25	24.0	46.0	29.0	53.0	1.0
4	5924 N. Bay Ridge, NB	Monday	9:00 - 10:00	25	20.0	0.0	29.0	53.0	0.0
5	5924 N. Bay Ridge, NB	Monday	17:00 - 18:00	25	23.0	0.0	29.0	78.0	0.0
6	5924 N. Bay Ridge, NB	Tuesday	14:00 - 15:00	25	24.0	0.0	29.0	36.0	0.0
7	5924 N. Bay Ridge, NB	Tuesday	15:00 - 16:00	25	23.0	0.0	29.0	35.0	0.0
8	5924 N. Bay Ridge, NB	Tuesday	16:00 - 17:00	25	24.0	0.0	29.0	47.0	0.0
9	5924 N. Bay Ridge, NB	Tuesday	17:00 - 18:00	25	22.0	0.0	29.0	62.0	0.0
10	5924 N. Bay Ridge, NB	Wednesday	8:00 - 9:00	25	23.0	0.0	29.0	49.0	0.0
11	5924 N. Bay Ridge, NB	Thursday	8:00 - 9:00	25	22.0	0.0	29.0	69.0	0.0
12	5924 N. Bay Ridge, NB	Thursday	14:00 - 15:00	25	22.0	0.0	29.0	47.0	0.0
13	5924 N. Bay Ridge, NB	Thursday	18:00 - 19:00	25	21.0	0.0	29.0	48.0	0.0
14	5924 N. Bay Ridge, NB	Saturday	18:00 - 19:00	25	22.0	0.0	28.3	40.0	0.0
15	5924 N. Bay Ridge, NB	Sunday	9:00 - 10:00	25	21.5	0.0	28.0	31.5	0.0
16	5924 N. Bay Ridge, NB	Monday	16:00 - 17:00	25	22.0	0.0	28.0	58.0	0.0
17	5924 N. Bay Ridge, NB	Monday	18:00 - 19:00	25	23.0	0.0	28.0	67.0	0.0
18	5924 N. Bay Ridge, NB	Tuesday	13:00 - 14:00	25	22.0	0.0	28.0	31.0	0.0
19	5924 N. Bay Ridge, NB	Thursday	7:00 - 8:00	25	24.0	0.0	28.0	45.0	0.0
20	5924 N. Bay Ridge, NB	Thursday	15:00 - 16:00	25	20.0	0.0	28.0	62.0	0.0
21	5924 N. Bay Ridge, NB	Thursday	17:00 - 18:00	25	22.0	0.0	28.0	79.0	0.0
22	5924 N. Bay Ridge, NB	Thursday	19:00 - 20:00	25	22.0	0.0	28.0	21.0	0.0
23	5924 N. Bay Ridge, NB	Friday	8:00 - 9:00	25	22.0	0.0	28.0	52.0	0.0
24	5924 N. Bay Ridge, NB	Friday	9:00 - 10:00	25	20.0	0.0	28.0	32.0	0.0
25	5924 N. Bay Ridge, NB	Friday	18:00 - 19:00	25	23.5	0.0	28.0	39.0	0.0



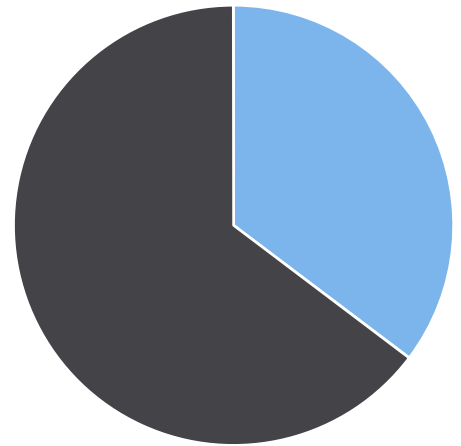
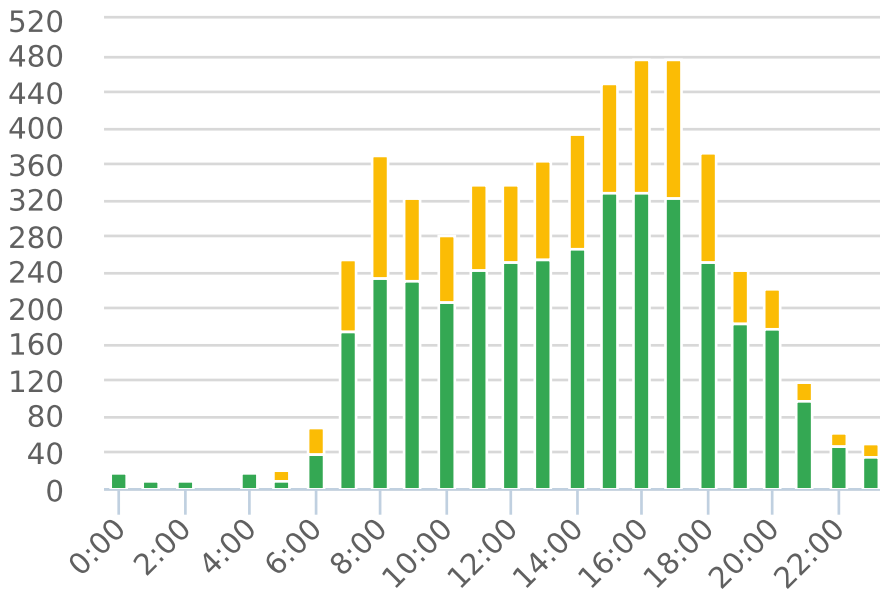
Time of Day: 0:00 to 23:59  
 Dates: 6/16/2018 to 6/24/2018

Site: 5924 N. Bay Ridge, NB

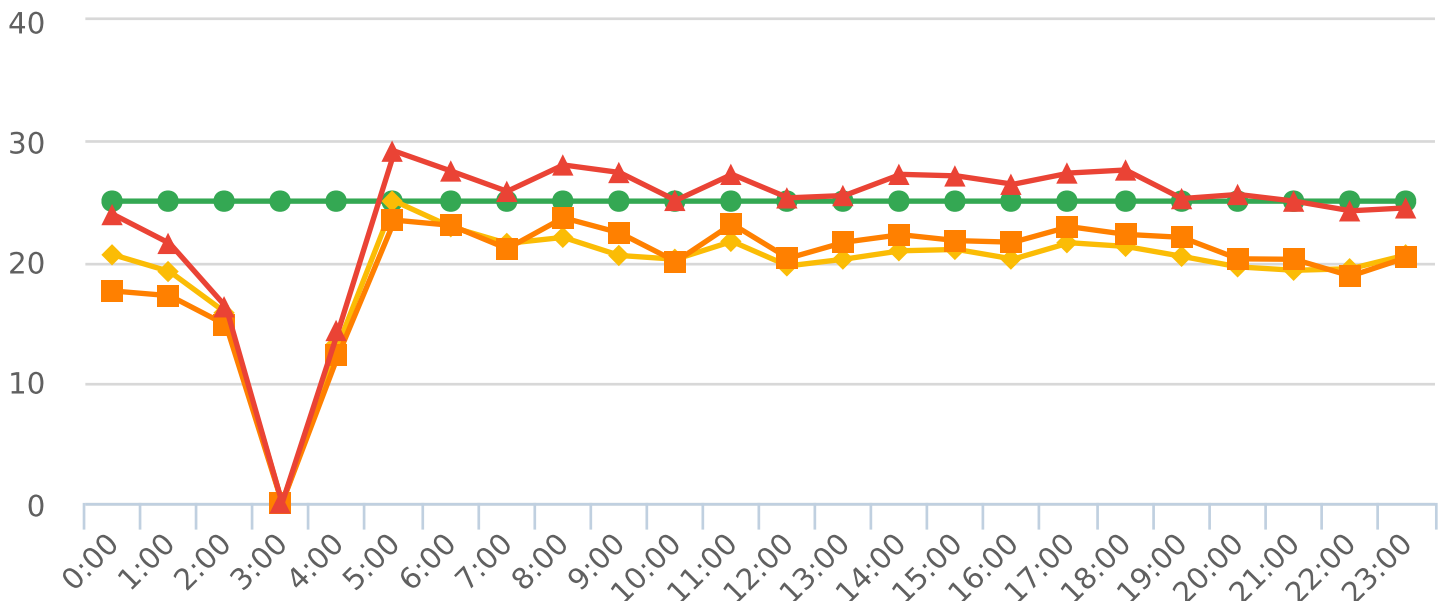
## Overall Summary

Total Days of Data: 9  
 Speed Limit: 25  
 Average Speed: 19.43  
 50th Percentile Speed: 19.69  
 85th Percentile Speed: 24.03  
 Pace Speed Range: 17.0-27.0

Minimum Speed: 5.0  
 Maximum Speed: 46.0  
 Display Status: Display Off  
 Average Volume per Day: 586.3  
 Total Volume: 5277.0



■ Violators   
 ■ Inside Threshold   
 ■ Compliant   
 ■ Vehicles Slowed   
 ■ Other



● Speed Limit   
 ◆ Average Speed   
 ■ 50% Speed   
 ▲ 85% Speed







Time View: By Hour (Avg Volumes)

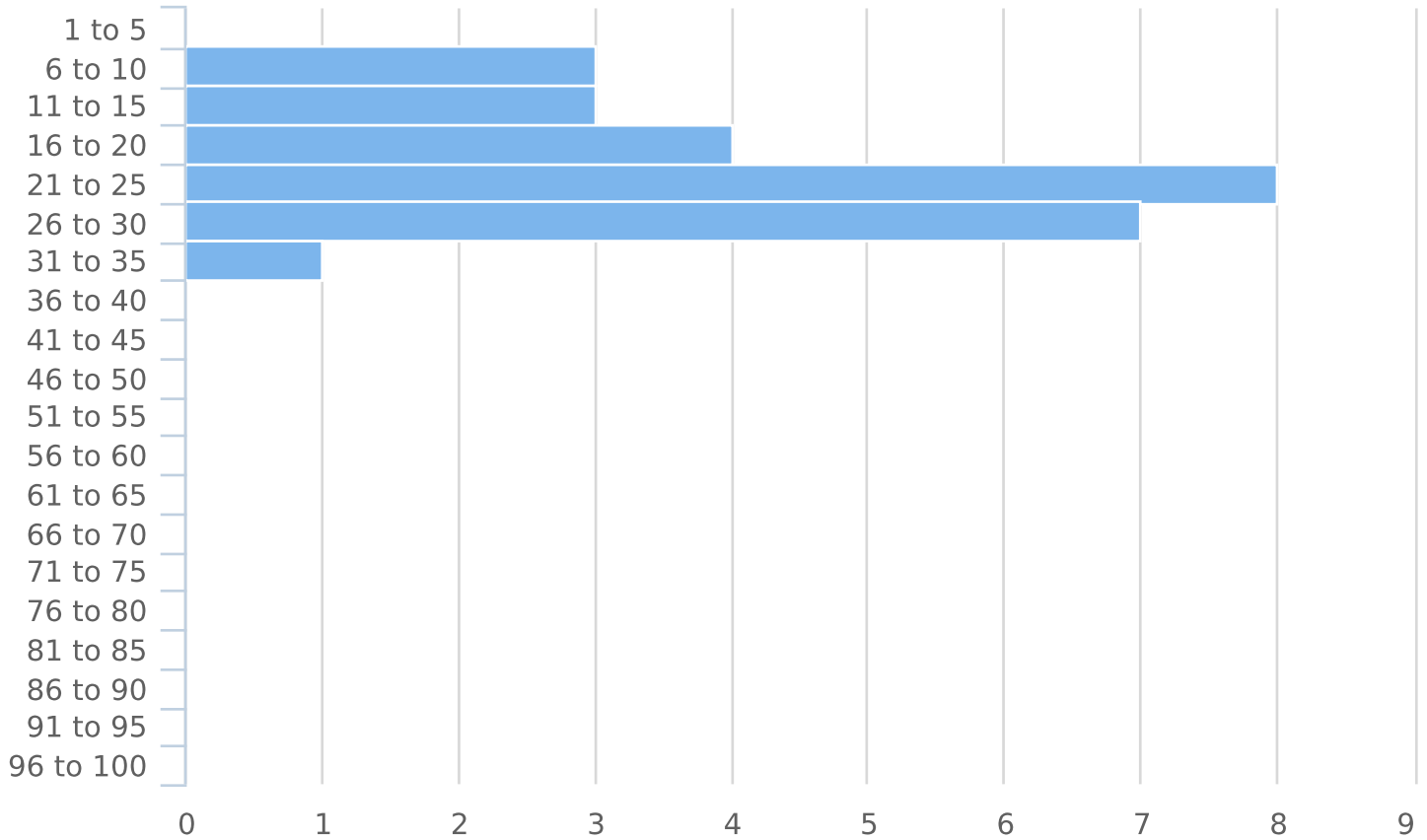
Speed Bins: Size 5, Range 1 to 100

Site: 5924 N. Bay Ridge, NB

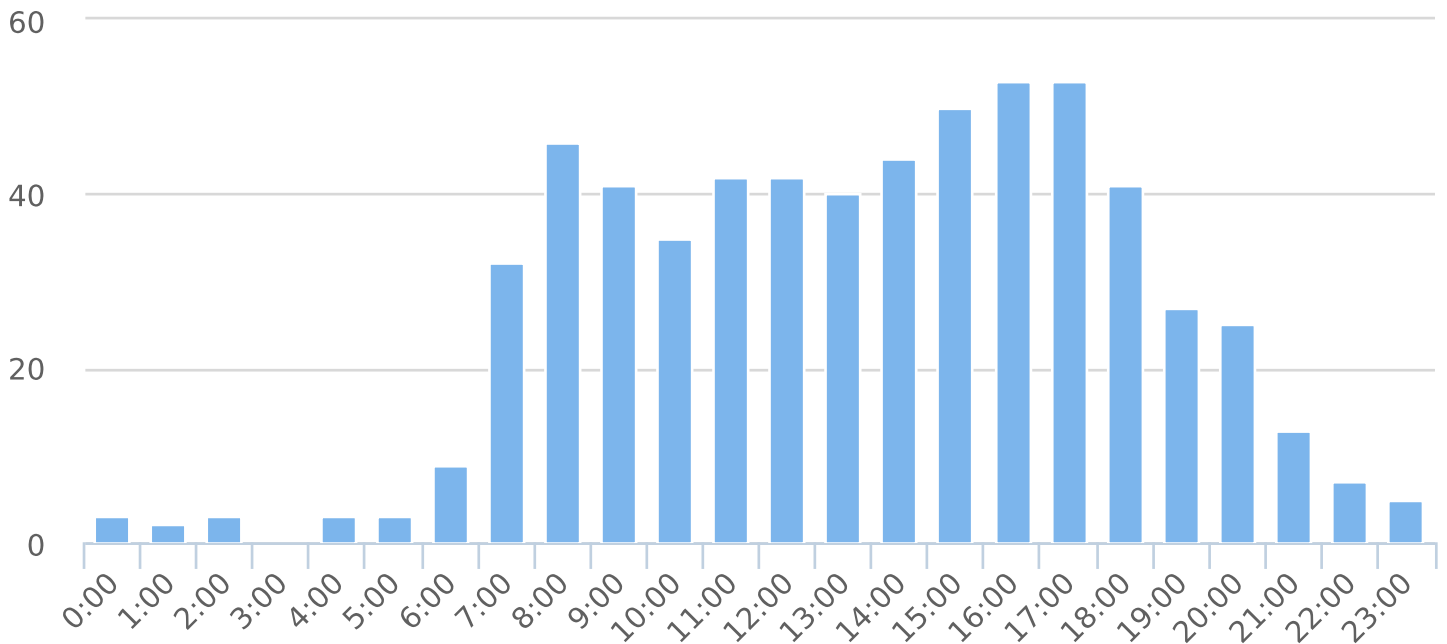
Time of Day: 0:00 to 23:59

Dates: 6/16/2018 to 6/24/2018

Average Vehicles by Speed Bin



Average Volume by Hour





Generated by David Hryniewicki from Village of Whitefish Bay on Jun 25, 2018 at 1:46:5 PM



Time View: By Day of Week (Avg Volumes)

Speed Bins: Size 5, Range 1 to 100

Site: 5924 N. Bay Ridge, NB

Time of Day: 0:00 to 23:59

Dates: 6/16/2018 to 6/24/2018

Day of Week	Spd Lim	1 to 5	6 to 10	11 to 15	16 to 20	21 to 25	26 to 30	31 to 35	36 to 40	41 to 45	46 to 50	51 to 55	56 to 60	61 to 65	66 to 70	71 to 75	76 to 80	81 to 85	86 to 90	91 to 95	96 to 100	Avg Spd	Avg #	
Sun	25	8	45	53	82	148	112	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.0	462
Mon	25	17	84	73	100	224	195	29	0	0	1	0	0	0	0	0	0	0	0	0	0	0	20.6	723
Tue	25	7	62	56	66	179	171	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.1	558
Wed	25	19	89	63	111	210	171	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20.7	679
Thu	25	9	89	82	137	233	221	18	1	0	0	0	0	0	0	0	0	0	0	0	0	0	21.0	790
Fri	25	8	84	63	121	211	151	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20.5	656
Sat	25	9	44	46	78	150	132	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20.5	473
<b>Avg #</b>		11	71	62	99	194	165	18	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20.5	620



Time View: By Day of Week (Avg Volumes)

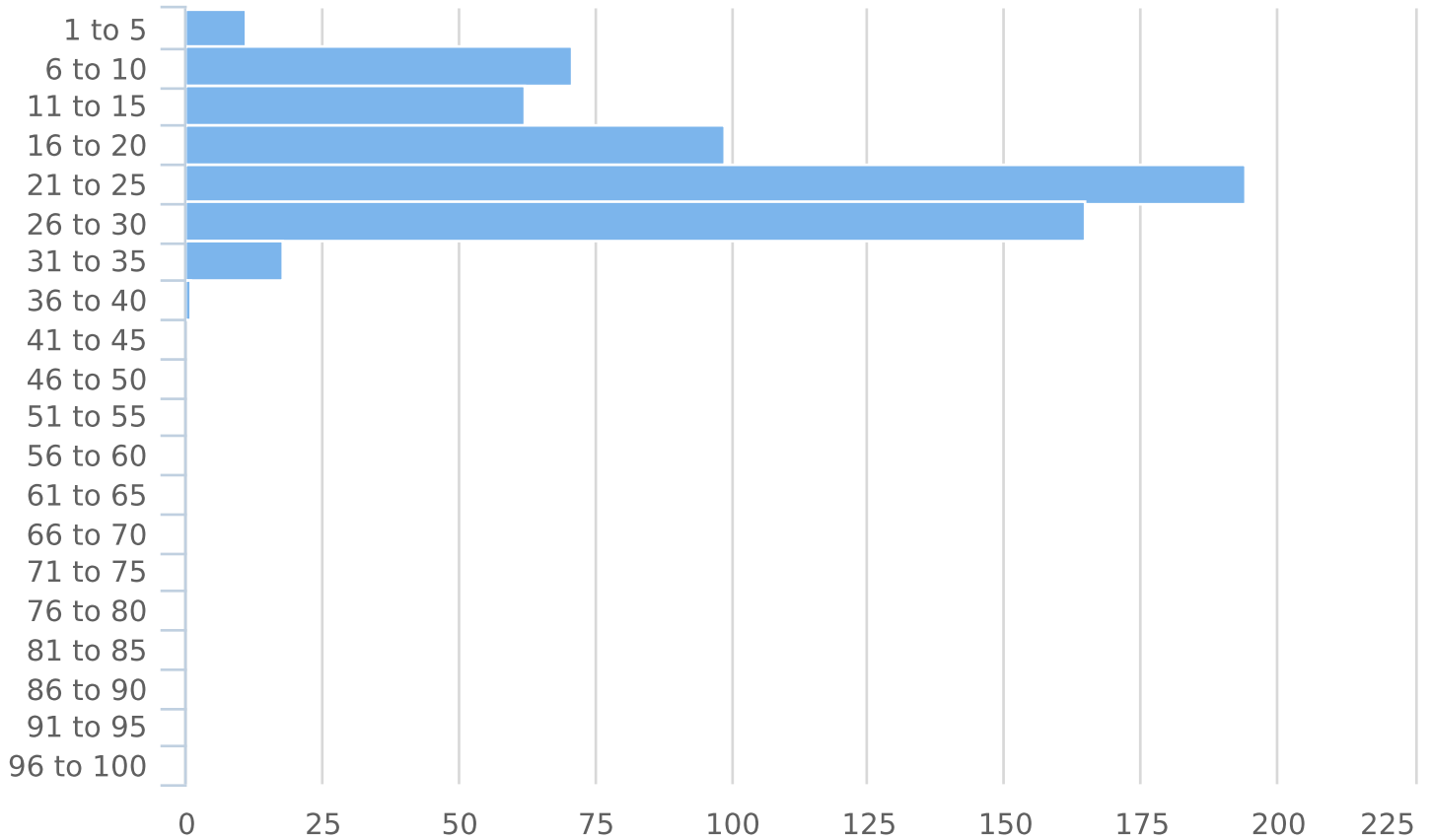
Speed Bins: Size 5, Range 1 to 100

Site: 5924 N. Bay Ridge, NB

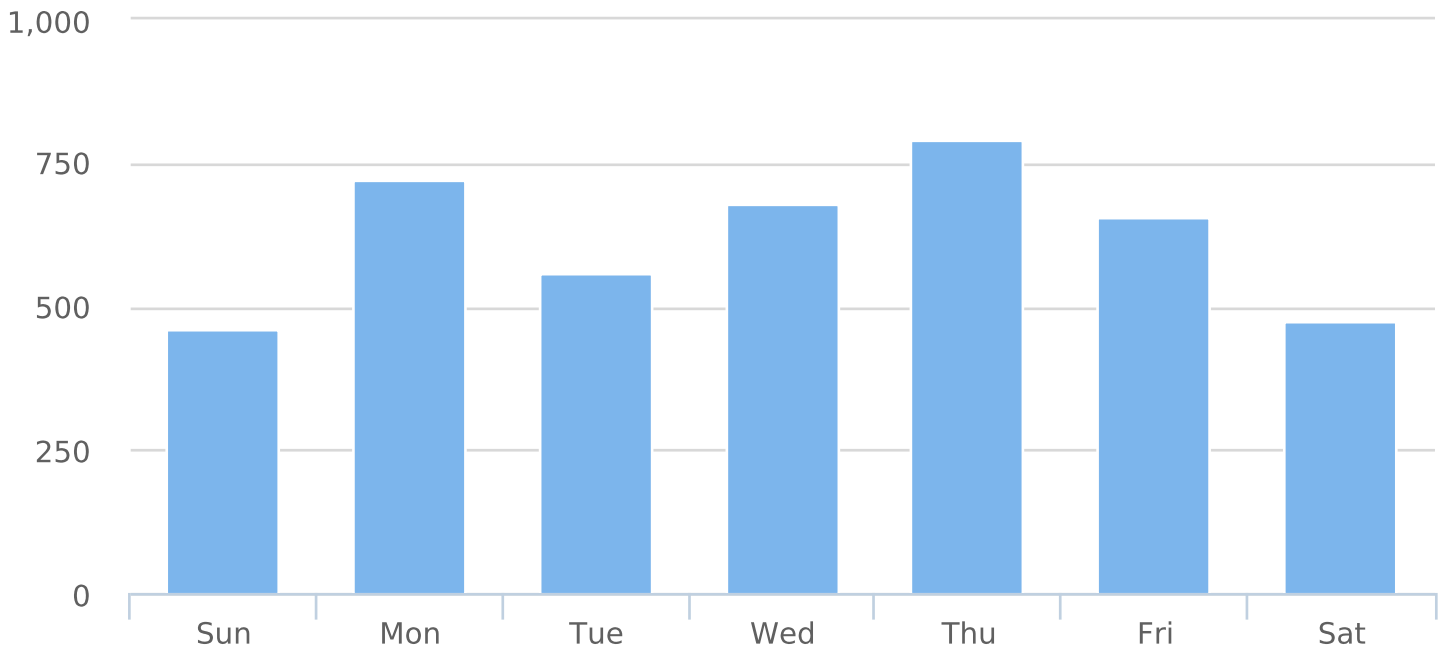
Time of Day: 0:00 to 23:59

Dates: 6/16/2018 to 6/24/2018

Average Vehicles by Speed Bin



Average Volume by Day of Week





Generated by David Hryniewicki from Village of Whitefish Bay on Jun 25, 2018 at 1:46:57 PM

Time View: By Day of Week (Avg Volumes)

Speed Bins: Size 5, Range 1 to 100

Site: 5924 N. Bay Ridge, NB

Time of Day: 0:00 to 23:59

Dates: 6/16/2018 to 6/24/2018

Day of Week	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total
<b>Sun</b>	4	2	3	0	1	1	4	12	27	32	30	49	31	38	24	38	41	32	28	31	24	9	6	3	<b>462</b>
<b>Mon</b>	2	1	0	0	0	1	12	46	53	53	39	40	46	33	32	77	58	78	67	45	19	14	5	4	<b>725</b>
<b>Tue</b>	2	0	0	0	10	4	12	40	54	39	27	23	30	31	36	35	47	62	35	28	23	10	9	1	<b>558</b>
<b>Wed</b>	1	1	0	0	1	2	14	44	49	52	37	36	33	48	43	52	67	60	46	32	19	26	8	8	<b>679</b>
<b>Thu</b>	2	0	0	0	3	5	10	45	69	49	42	58	61	53	47	62	69	79	48	21	44	13	5	5	<b>790</b>
<b>Fri</b>	4	2	1	0	2	3	9	39	52	32	41	37	46	44	45	58	84	57	39	12	22	10	4	13	<b>656</b>
<b>Sat</b>	2	3	2	0	1	2	3	9	20	18	18	23	30	39	72	45	35	39	40	21	23	15	11	7	<b>473</b>
<b>Avg #</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>9</b>	<b>34</b>	<b>46</b>	<b>39</b>	<b>33</b>	<b>38</b>	<b>40</b>	<b>41</b>	<b>43</b>	<b>52</b>	<b>57</b>	<b>58</b>	<b>43</b>	<b>27</b>	<b>25</b>	<b>14</b>	<b>7</b>	<b>6</b>	<b>620</b>



Generated by David Hryniewicki from Village of Whitefish Bay on Jun 25, 2018 at 1:46:57 PM

Time View: By Day of Week (Avg Volumes)

Speed Bins: Size 5, Range 1 to 100

Site: 5924 N. Bay Ridge, NB

Time of Day: 0:00 to 23:59

Dates: 6/16/2018 to 6/24/2018

## Volume by Day

