2011 Pedestrian and Bicycle Count Report

Fall 2011

City of Bellevue

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Table of Contents

Table of Contents 2

Purpose and Overview 3

Methodology 3

- **Locations** 3
- **Data Collection** 4
  - Date and Time 4
  - Counting Technique 4

Results 6

Analysis 8

- **Time of Day** 8
- **Count Year** 9

Discussion 11

Appendix A 13

- **Complete 2011 Count Data** 13

Appendix B 15

- **Additional 2009 – 2010 Count Data** 15

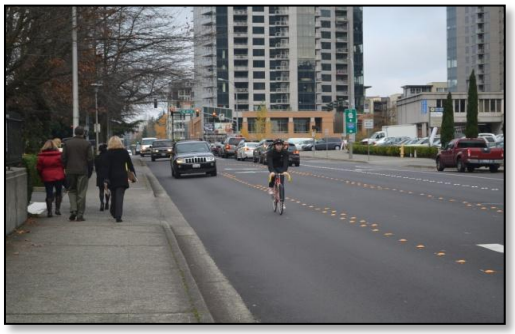
Appendix C 16

- **2011 Count Forms** 16

Purpose and Overview

Policy PB-29 in the Bellevue Comprehensive Plan directs Transportation Department staff to "Develop procedures to collect data in order to measure pedestrian and bicycle usage on an ongoing basis." The data collected here will help track Bellevue's progress toward its goals of improving bicycling and walking conditions in the city. The information also contributes to a larger effort in Washington State to improve decisions about where to invest transportation funds and how to improve safety. Data from these counts will be used to inform investments in bicycle and pedestrian facilities as well as educational programs statewide.

City of Bellevue staff conducted manual counts of bicyclists and pedestrians at four locations in the city using video capture technology. The counts were performed for two peak periods (7:00 AM - 9:00 AM and 4:00 PM - 6:00 PM) for three consecutive days from Tuesday 9/27/2011 to Thursday 9/29/2011. This was the third annual count for the City of Bellevue.



Travelers in downtown Bellevue opt for non-motorized transportation choices

The resulting data provided 15-minute counts for bicycles and pedestrians for the four locations. This data was used for time of day analysis and comparison to previous years' counts. The results of this study including methodology, refined count data, analysis, and discussion are contained in this report.

Methodology

Following the National Bicycle and Pedestrian Documentation Project (NBPD) guidelines, the City of Bellevue selected four sites for manual screen line counts of bicycles and pedestrians. Counts were performed by recording 2 hour AM and PM peak segments using existing traffic cameras. City of Bellevue staff reviewed the recordings and manually counted pedestrians and bicyclists for the four locations.

Locations

For the original 2009 Pedestrian and Bicycle Count, five locations were chosen which displayed high traffic for pedestrians and bicycles. These sites were chosen under several guidelines: choose locations which roughly encircle downtown, include locations with major trip destinations, and correspond choices with priority bicycle corridors as designated in the 2009 Pedestrian and Bicycle Transportation Plan. The 2010 count locations were identical to those identified in the original 2009 report.

In 2011, four of the five previous count locations were observed. The fifth location (NE 12th St at 116th Ave NE) was omitted due to ongoing construction throughout the duration of the count, resulting in non-typical pedestrian and bicycle traffic. 2009 and 2010 count data for this location can be found in Appendix B.

Bicyclists travel along 108th Ave NE

Existing traffic cameras were used to record video at the count sites for pre-determined time periods. The locations and camera orientation for each site can be found in Table 1 on the following page. Technical limitations restrict the City to recording only four channels simultaneously. In the past, to count a fifth location a manual in-person count would be performed.

Data Collection

Date and Time

In the past the Pedestrian and Bicycle Count has counted volumes for a single Tuesday for the AM and PM peak period in late September or early October. This year, counts were performed for three consecutive days from Tuesday 9/27/2011 to Thursday 9/29/2011. AM and PM peak period counts from 7:00 AM – 9:00 AM and 4:00 PM – 6:00 PM were performed for each day. In addition, counts were tabulated every 15 minutes.

Counting for multiple days allowed for the analysis to take averages for all three days in order to determine "typical" weekday volumes. In addition, because the volumes were tabulated every 15 minutes, this allows for a time of day analysis to see how volumes change throughout the day.

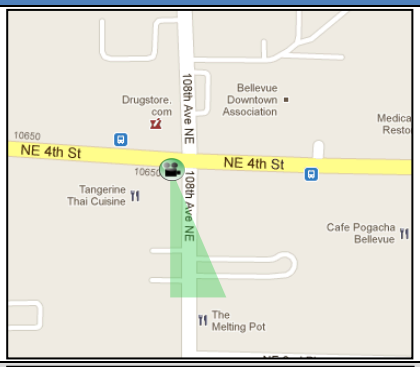
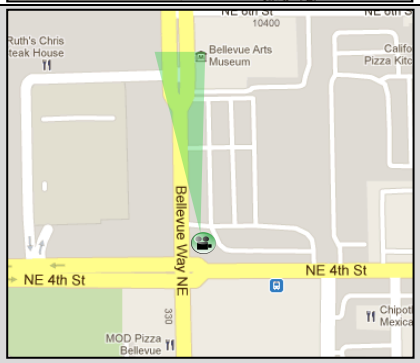
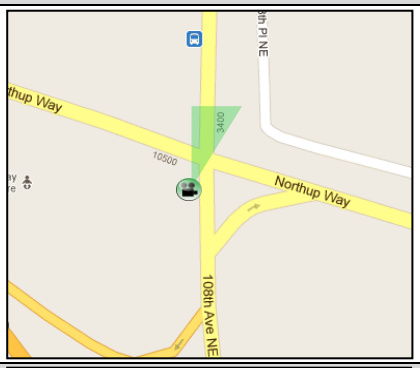
Counting Technique

Traditionally, the City of Bellevue collects pedestrian and bicycle count data using two sources: manual screen line counting and automated tube counts. Manual screen line counting is the process of counting pedestrians and bicycles that cross a pre-designated point or line on the road. A tally is made for each pedestrian and bicycle that crosses this line in either direction. The tallies represent the number of pedestrians and bicycles that have trafficked that street for the given time period. A depiction of the screen lines used in the count is shown in Table 1. The red line designates the screen line in each figure. City staff used counting forms to tally pedestrian and bicycle volumes at each site. Copies of the forms can be found in Appendix C.

The second type of data collection is automated tube counts used for bicycles. Pneumatic tubes that sense bicycle movement are laid across bike paths and lanes. The user can set the time period in which to collect the counts. The program then outputs the total number of bicycles that have crossed the tube for that time period. In the past, tubes were placed at 8

locations varying from bicycle paths to street shoulders. This year, tube counts were not performed due to constraints in time and budget. Previous years' tube count results are available in Appendix B.

Table 1 - 2011 Count Locations

Location[1]	Screen Line	Camera Orientation
108th Ave NE S/O NE 4th St		
Bellevue Way NE N/O NE 4th St		
108th Ave NE N/O Northup Way		
118th Ave SE N/O SE 8th St		

[1] *Please note the designation W/O, N/O, S/O, and E/O. These acronyms stand for West of, North of, South of, and East of respectively. For example, the location "108th Ave NE S/O NE 4th St" represents that traffic was counted on 108th Ave NE, at a location just south of NE 4th St.*

Results

After counts were performed, the data was input into Microsoft Excel. Data was separated by the three count days and the AM and PM peak periods. This data can be found in Appendix A.

Several recording errors arose when staff reviewed videos for counting. First, on the count day of 9/27/2011, the camera located at Bellevue Way NE N/O NE 4th St malfunctioned intermittently throughout the day and did not display video properly. City staff were unable to count several 15-minute time periods due to this error.

Secondly, also on 9/27/2011, all four locations simultaneously stopped recording at a time around 5:30 PM. This was attributed to a manual video recording error. There were no errors discovered for the counts on 9/28/2011 and 9/29/2011.

In the past, counts were performed on a single Tuesday. Counting for a single day could possibly present misleading statistics due to random spikes in volume. In order to determine smoothed weekday volumes, averages were taken for each count interval for three days in 2011. For the intervals in which data was missing for 9/27/2011, the average was taken for 9/28/2011 and 9/29/2011 only. The resulting volumes by peak period are shown in Tables 2 and 3. Values were rounded to the nearest whole number.

To compare the observed volumes to previous years, a total volume for each peak period was calculated for each site. Peak period volume totals from past counts were combined with this year's data to compare side by side. In addition to volume data, weather conditions were noted for each year. The resulting data is shown in Tables 4 and 5.

Table 2 - Average AM Weekday Peak Period Volumes

	108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
Time	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
7:00 AM	0	49	1	23	0	2	2	2
7:15 AM	1	57	2	21	0	1	2	2
7:30 AM	2	56	0	36	1	7	2	1
7:45 AM	3	57	1	29	1	2	3	1
8:00 AM	4	44	1	28	0	4	2	0
8:15 AM	2	60	1	23	0	6	4	1
8:30 AM	3	61	1	27	1	4	2	1
8:45 AM	3	57	1	43	1	2	3	1
Total	19	441	9	229	4	28	21	9

Table 3 - Average PM Weekday Peak Period Volumes

Time	108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
4:00 PM	3	66	2	72	1	2	2	2
4:15 PM	2	63	2	61	2	4	6	2
4:30 PM	1	71	1	71	1	3	3	1
4:45 PM	3	61	1	65	1	5	5	1
5:00 PM	3	63	1	87	1	4	5	0
5:15 PM	3	54	1	63	2	5	5	0
5:30 PM	3	61	3	75	1	5	4	1
5:45 PM	1	68	2	76	3	4	10	2
Total	19	507	13	569	12	32	39	9

Table 4 - Yearly AM Weekday Peak Period Volumes

Year	Date	Weather[2]		108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
		°F	Conditions	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
2009	9/29	48.0	Fair	11	295	3	265	19	19	14	4
2010	10/5	48.9	Sunny, Clear	16	294	3	235	6	34	39	30
2011	9/27 9/28 9/29	57.9 51.1 48.2	Mostly Cloudy Mostly Cloudy Clear	19	441	9	229	4	28	21	9

[2] *Weather temperature information provided by www.wunderground.com*

Table 5 - Yearly PM Weekday Peak Period Volumes

Year	Date	Weather[2]		108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
		°F	Conditions	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
2009	9/29	61.0	Rainy	15	361	5	359	21	11	17	6
2010	10/5	62.1	Sunny, Clear	19	368	12	443	9	38	42	16
2011	9/27 9/28 9/29	64.9 62.1 75.0	Scattered Clouds Clear Clear	19	507	13	569	12	32	39	9

[2] *Weather temperature information provided by www.wunderground.com*

Analysis

Two types of analysis can be performed on the data collected from this year's count. First, a time of day comparison is possible by retrieving average volumes for each 15-minute count interval. Second, a comparison to previous years' peak period volumes can be made.

Time of Day

Figures 1 and 2 help display the pedestrian and bicycle volume changes throughout the day. Overall, 108th Ave NE S/O NE 4th St and Bellevue Way NE N/O NE 4th St experienced the heaviest pedestrian volumes. Both locations featured 200+ pedestrians for the AM peak period and 500+ pedestrians for the PM peak period.

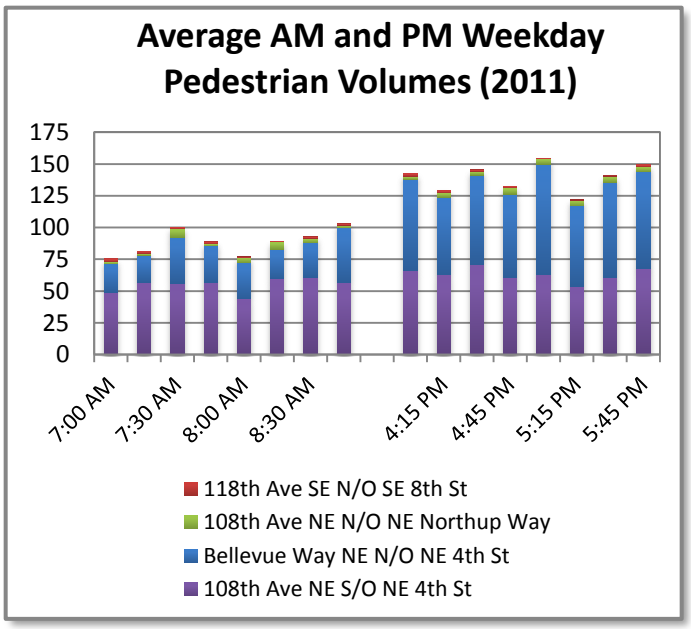


Figure 1

Viewing the cumulative volumes for all four locations, there are observable trends that occur throughout the day. The highest volumes in the AM period occurred at 7:30 AM and 8:45 AM. High traffic in the PM period occurred around 4:00 PM, 4:30 PM, 5:00 PM, and 5:45 PM.

For bicycle traffic, the highest total volumes occurred on 108th Ave NE S/O NE 4th St and 118th Ave SE N/O SE 8th St. These two locations averaged approximately 15 or more bicycles per peak period including 39 bicycles in the PM peak period for 118th Ave SE.

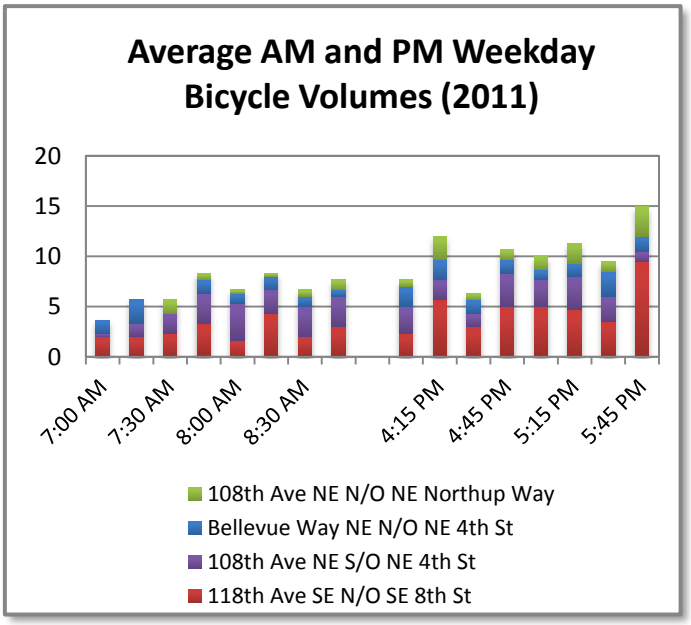


Figure 2

Spikes in bicycle traffic occurred around 7:45 AM, 8:00 AM, 4:15 PM, and 5:45 PM. Two of the locations experienced their heaviest 15-minute volume at the last count interval of the day.

Table 6 displays changing 15 minute count volumes. For each count site, total pedestrian volume either increased or remained the same from the AM to the PM peak period. The smallest pedestrian

change occurred at 118th Ave SE N/O SE 8th St, which remained constant at 9 total pedestrians for each period. The largest change occurred at Bellevue Way NE N/O NE 4th St which jumped from 229 pedestrians to 569 pedestrians, a 148% increase.

Total bicycle volume experienced high variability due to low overall volumes. The smallest change occurred at 108th Ave NE S/O NE 4th St which counted 19 bicycle movements for the AM and PM peak period each. The largest changes occurred at 108th Ave NE N/O NE Northup Way and 118th Ave SE N/O SE 8th St which experienced an increase of 8 bicycles (200% increase) and 18 bicycles (86% increase) respectively.

Table 6 - 2011 AM and PM Peak Period Volumes

	108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
Time	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
AM Total	19	441	9	229	4	28	21	9
PM Total	19	507	13	569	12	32	39	9
Change	0	66	4	340	8	4	18	0
% Change	0%	15%	44%	148%	200%	14%	86%	0%

Count Year

Using count totals from previous years, a comparison was made between pedestrian and bicycle traffic. Tables 4 and 5 in the Results section show the numerical volumes for each year. Figures 3 through 6 display pedestrian and bicycle volume changes for all three count years.

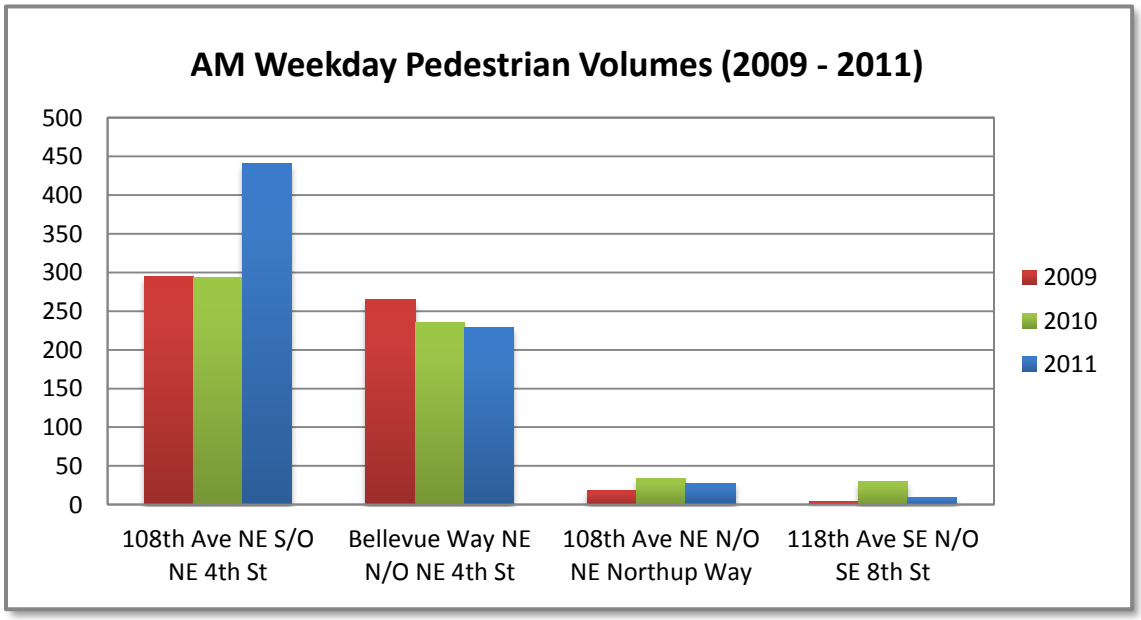


Figure 3

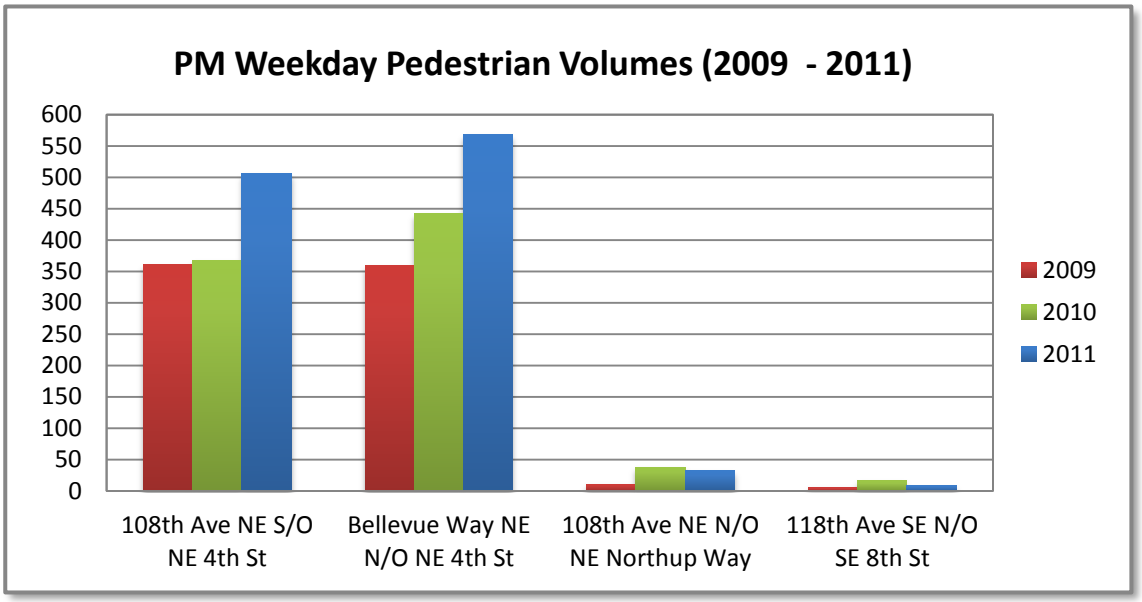


Figure 4

Pedestrian volume most noticeably increased for 108th Ave NE S/O NE 4th St. The greatest change occurred from 2010 to 2011 during the AM peak period. For this period, pedestrian traffic jumped from 294 to 441. The PM peak period also saw similar jumps for this location. Pedestrian volumes for Bellevue Way NE N/O NE 4th St decreased for each year during the AM peak period. However, during the PM peak period, traffic steadily increased for each count year. The other two locations had no discernible trends other than having the highest volumes for each period during the 2010 count year.

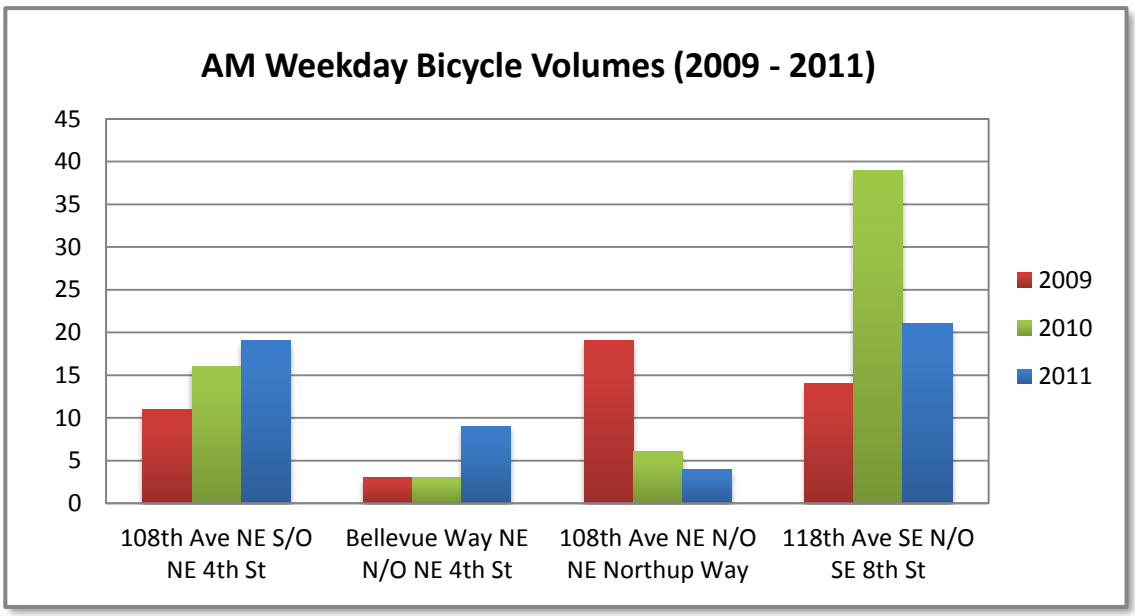


Figure 5

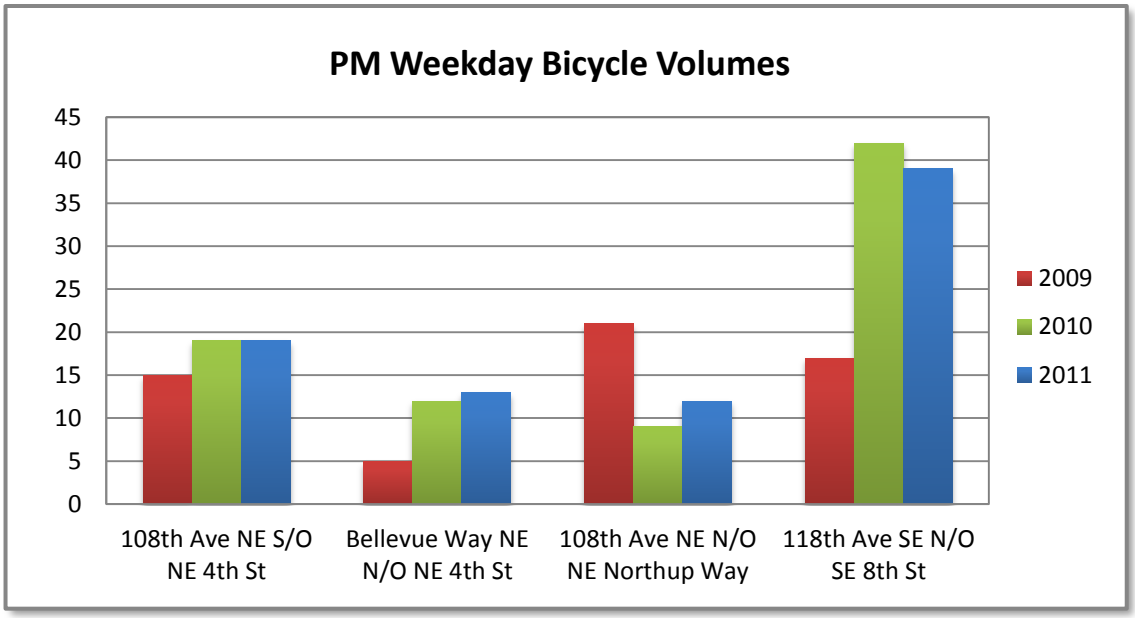


Figure 6

Figure 5 and 6 display the bicycle volume changes for each count year. Notable changes included a steady increase for both peak periods at two locations: Bellevue Way NE N/O NE 4th St and 108th Ave NE S/O NE 4th St. One location, 108th Ave NE N/O NE Northup Way, experienced a decrease in bicycle volume throughout all three years. The final location at 118th Ave SE N/O SE 8th St jumped from 2009 to 2010 including an increase of 25 bicycles per peak period. This change did not hold through 2011. 118th Ave SE experienced a heavy drop in the AM peak period in 2011 and leveled off in the PM peak period.

Discussion

Reviewing the results, several key observations can be made. 108th Ave NE and Bellevue Way NE, both located at NE 4th St, showed the highest volumes of pedestrians. Due to their location within the downtown, it is safe to note that many of these trips are work related. Furthermore, this is confirmed by spikes in the traffic most likely associated with common commute times around 7:30 AM, just before 9:00 AM, and just after 4:00 PM, 4:30 PM, and 5:00 PM.

During viewing, staff noted that pedestrian volumes often occurred in waves of people. This could likely be explained by transition to or from transit which serves groups at a time. Another explanation may be a signal changes at an intersection which have a tendency to group pedestrians together.

Pedestrians can become grouped together when waiting for signal changes

For bicycle counts, 108th Ave NE S/O NE 4th St and 118th Ave SE N/O SE 8th St showed the highest peak period volumes. This is consistent in previous years' counts. 118th Ave SE proves to consistently be a preferred choice for bicycle trips. Again, many trips appear to be work related due to spikes in volumes associated with common commute times.

For all modes, volumes increased dramatically for the PM peak periods for all three count years including 2011. While the trip times show that pedestrian and bicycle travel are often commute related, the increase in PM peak period volumes help show the introduction of more non-commute related trips to the system such as recreation, shopping, etc.

The Pedestrian and Bicycle Count aims to capture average weekday volumes. Because automated pedestrian and bicycle count mechanisms are not widespread, counts are typically performed manually. Because of this, it is difficult to obtain large amounts of data without using excessive time and resources.

Bicyclists often choose to travel along streets with less motorized traffic

These "typical" weekday volumes should not be used as an average throughout 2011. Pedestrian and bicycle volumes will vary heavily due to changes in weather, season, mode choice, and other factors. However, the data is valuable in comparing year by year counts in order to determine changes over time. In addition, counting for multiple days and averaging results will help to reduce peaks which may occur on non-typical weekdays due to changing conditions.

Overall, the pedestrian and bicycle volumes have shown an increasing trend as a system. High trafficked pedestrian locations in downtown have shown dramatic increases, especially in the peak period. Typical bicycle commute trip locations also show a slight increase for each year. The City of Bellevue will continue to make access to these alternate modes as easy and efficient as possible.

Appendix A

Complete 2011 Count Data

Table 7 - 9/27/2011 AM Peak Period Count Data

Time	108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
7:00 AM	0	43	2	20	0	2	2	1
7:15 AM	1	50	3	20	0	2	3	2
7:30 AM	0	70	0	39	1	8	4	2
7:45 AM	1	52	0	25	0	5	2	2
8:00 AM	3	36	1	34	0	3	1	0
8:15 AM	2	37	1	17	1	8	3	0
8:30 AM	3	37	0	20	0	5	2	1
8:45 AM	4	40	0	40	2	1	2	0
Total	14	365	7	215	4	34	19	8

Table 8 - 9/27/2011 PM Peak Period Count Data

Time	108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
4:00 PM	1	65	-	-	0	2	2	2
4:15 PM	2	67	-	-	1	3	4	1
4:30 PM	0	72	0	61	0	1	3	1
4:45 PM	2	64	1	48	1	4	3	2
5:00 PM	0	33	-	-	0	4	3	1
5:15 PM	1	55	0	43	3	9	1	1
5:30 PM	-	-	-	-	-	-	-	-
5:45 PM	-	-	-	-	-	-	-	-
Total	6	356	1	152	5	23	16	8

Table 9 - 9/28/2011 AM Peak Period Count Data

Time	108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
7:00 AM	1	36	0	27	0	3	3	2
7:15 AM	0	52	3	21	0	1	1	2
7:30 AM	4	42	0	31	1	4	1	1
7:45 AM	5	50	1	28	2	0	4	1
8:00 AM	5	53	0	24	1	7	2	0
8:15 AM	3	61	1	18	0	5	5	1
8:30 AM	4	68	1	26	2	5	1	1
8:45 AM	2	73	1	50	1	4	2	0
Total	24	435	7	225	7	29	19	8

Table 10 - 9/28/2011 PM Peak Period Count Data

Time	108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
4:00 PM	3	65	2	52	0	3	4	4
4:15 PM	1	52	2	51	3	4	4	2
4:30 PM	4	72	2	58	1	5	5	0
4:45 PM	5	69	2	49	1	8	4	0
5:00 PM	3	79	0	69	1	7	6	0
5:15 PM	4	55	2	57	2	1	5	0
5:30 PM	1	64	4	53	2	4	2	1
5:45 PM	1	81	1	50	1	5	6	2
Total	22	537	15	439	11	37	36	9

Table 11 - 9/28/2011 AM Peak Period Count Data

Time	108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
7:00 AM	0	67	2	21	0	1	1	3
7:15 AM	3	69	1	23	0	1	2	1
7:30 AM	2	57	0	37	2	9	2	1
7:45 AM	3	68	3	34	0	0	4	1
8:00 AM	3	44	2	26	0	3	2	1
8:15 AM	2	82	2	33	0	5	5	1
8:30 AM	2	78	2	35	0	1	3	1
8:45 AM	3	58	1	38	0	2	5	3
Total	18	523	13	247	2	22	20	11

Table 12 - 9/28/2011 PM Peak Period Count Data

Time	108th Ave NE S/O NE 4th St		Bellevue Way NE N/O NE 4th St		108th Ave NE N/O NE Northup Way		118th Ave SE N/O SE 8th St	
	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds
4:00 PM	4	68	2	92	2	2	1	1
4:15 PM	3	71	2	70	3	4	9	2
4:30 PM	0	68	2	93	1	3	1	2
4:45 PM	3	50	1	99	1	3	8	2
5:00 PM	5	77	2	105	3	2	6	0
5:15 PM	5	51	2	90	1	4	8	0
5:30 PM	4	58	1	96	0	6	5	0
5:45 PM	1	55	2	102	5	3	13	1
Total	25	498	14	747	16	27	51	8

Appendix B

Additional 2009 – 2010 Count Data

Table 13 - Location 5 Count Data (2009 - 2010)

Year	Date	Weather[2]		108th Ave NE S/O NE 4th St	
		°F	Conditions	Bikes	Peds
2009 AM	9/29	48.0	Fair	24	32
2009 PM	9/29	61.0	Rainy	20	27
2010 AM	10/5	48.9	Sunny, Clear	17	16
2010 PM	10/5	62.1	Sunny, Clear	25	16

[2] *Weather temperature information provided by www.wunderground.com*

Table 14 - Automated Tube Bicycle Count Data (2009 - 2010)

Year	Date	Weather[2]		Location							
				A	B	C	D	E	F	G	H
		°F	Conditions	Bikes	Bikes	Bikes	Bikes	Bikes	Bikes	Bikes	Bikes
2009 AM	9/29	48.0	Fair	6	22	24	17	61	35	8	3
2009 PM	9/29	61.0	Rainy	13	28	22	29	98	43	13	5
2010 AM	10/5	48.9	Sunny, Clear	17	39	24	20	119	62	16	4
2010 PM	10/5	62.1	Sunny, Clear	22	67	42	69	182	76	20	20

[2] *Weather temperature information provided by www.wunderground.com*

Bicycle Tube Count Locations

A) Bike lane on 115th Ave NE E/O 116th Ave NE
B) Bike lane on 118th Ave SE N/O I-90
C) SR-520 Bike Trail at NE 24th St
D) Bike Trail at Newcastle Beach Park
E) I-90 Bike Trail at Enatai
F) I-90 Bike Trail W/O Factoria Blvd.
G) I-90 Sunset Bike Trail E/O Eastgate Way
H) West Lake Sammamish west side shoulder S/O SE 26th St

Appendix C

2011 Count Forms

Name:

Count Date:

* Count for two hours in 15 minute increments.
* Count bicyclists who ride on the sidewalk.
* Count the number of people on the bicycle, not the number of bicycles.
* Pedestrians include people in wheelchairs or others using assistive devices, children in strollers,

etc.

Location 1: 108th Ave NE S/O NE 4th St

Weather Conditions:

Temperature (F°):

Time	Bicycles	Pedestrians
7:00 AM - 7:15 AM		
7:15 AM - 7:30 AM		
7:30 AM - 7:45 AM		
7:45 AM - 8:00 AM		
8:00 AM - 8:15 AM		
8:15 AM - 8:30 AM		
8:30 AM - 8:45 AM		
8:45 AM - 9:00 AM		
Total		

Location 2: Bellevue Way NE N/O NE 4th St

Weather (Snow, Rain, Overcast, Cloudy, Sunny):

Temperature (F°):

Time	Bicycles	Pedestrians
7:00 AM - 7:15 AM		
7:15 AM - 7:30 AM		
7:30 AM - 7:45 AM		
7:45 AM - 8:00 AM		
8:00 AM - 8:15 AM		
8:15 AM - 8:30 AM		
8:30 AM - 8:45 AM		
8:45 AM - 9:00 AM		
Total		

Figure 7 - Example Count Form 1

Name:

Count Date:

* Count for two hours in 15 minute increments.
* Count bicyclists who ride on the sidewalk.
* Count the number of people on the bicycle, not the number of bicycles.
* Pedestrians include people in wheelchairs or others using assistive devices, children in strollers, etc.

Location 3: 108th Ave NE N/O NE Northup Way

Weather Conditions:

Temperature (F°):

Time	Bicycles	Pedestrians
7:00 AM - 7:15 AM		
7:15 AM - 7:30 AM		
7:30 AM - 7:45 AM		
7:45 AM - 8:00 AM		
8:00 AM - 8:15 AM		
8:15 AM - 8:30 AM		
8:30 AM - 8:45 AM		
8:45 AM - 9:00 AM		
Total		

Location 4: 118th Ave SE N/O SE 8th St

Weather (Snow, Rain, Overcast, Cloudy, Sunny):

Temperature (F°):

Time	Bicycles	Pedestrians
7:00 AM - 7:15 AM		
7:15 AM - 7:30 AM		
7:30 AM - 7:45 AM		
7:45 AM - 8:00 AM		
8:00 AM - 8:15 AM		
8:15 AM - 8:30 AM		
8:30 AM - 8:45 AM		
8:45 AM - 9:00 AM		
Total		

Figure 8 - Example Count Form 2