PORTLAND BICYCLE COUNT REPORT 2012

Introduction
Each year since the early 1990s, the Portland Bureau of Transportation (PBOT) has counted bicycle trips at various locations throughout the city. The majority of these counts have been conducted manually by volunteer counters and city staff standing at street corners and on bridges during the two-hour rush (“peak period”) counting bicycles that pass. In addition to the overall number of trips, PBOT also records the gender of each person and whether they are wearing a helmet. Most counts are still conducted in this manner, though in the early 2000s PBOT added a number of 24-hour automated "hose" counts (pressure-sensitive pneumatic hoses) on some bridges and trails. These counts, while they do not record gender or helmet use, provide a more precise record of the ebb and flow of bicycle traffic over 24-hour periods. In August of 2012 PBOT, in conjunction with Multnomah County, added an automated 24-hour bicycle counter to the deck of the Hawthorne Bridge. This counter, known as a “bike barometer” records bicycle activity every day and around the clock.

Summary of the 2012 Bicycle Count:
- Bicycle use in Portland continued its two decade long upward trend.
- 2012 bicycle counts showed a citywide 3.3 percent annual growth compared to the same locations counted in 2011.
- Bicycle counts showed a one-year decline in both NW and SW Portland.
- Bicycle traffic on Portland’s five principal bicycle-friendly bridges (Broadway, Steel, Burnside, Morrison and Hawthorne bridges) showed the highest number of bicycle trips since annual counts began in 2000/2001.
- Of 216 locations counted, 69 (32 percent) had daily bicycle traffic of more than 1000 trips.
- Since the 2000/2001 counts, the overall trend in bicycle traffic was up 211 percent; more than a tripling in use.
- Helmet use remained at historic high levels, with 80 percent of all people wearing their helmet. Helmet use is highest in SW Portland (90 percent) and North Portland (83 percent) and lowest in East Portland (63 percent). Helmet use in 2012 continued to be more prevalent among female riders (86 percent) than for male riders (77 percent).
- Female riders represented 31 percent of bicyclists citywide, remaining essentially unchanged since 2003.

Prior to 2008 the majority of counts were concentrated in close-in neighborhoods and the Central City. Beginning in 2008, the city placed an emphasis on increasing the total number of counts citywide, with a particular focus on locations in Southwest and East Portland (east of I-205). Each year since PBOT has expanded the number of counted locations, from 121 locations in 2008 to 216 in 2012, the highest number of locations

May 2013
counted since the volunteer count program began. Altogether, volunteers manually counted more than 38,500 bicycle trips, representing more than 190,000 daily bicycle trips.  

Annual bicycle counts constitute one of the City’s three principal means of assessing progress in its efforts to make the bicycle an integral part of daily life in Portland. This report identifies the key findings from the latest round of bicycle counts conducted between July 20 and September 30, 2012. The report also provides graphical representation of the data and includes a staff analysis.

The 2012 count demonstrates a continuation of the two-decade upward trend of bicycle use in Portland. Of 150 locations that were counted in both 2011 and 2012 (including four of the bicycle-friendly Willamette River bridges and trails), 67 locations showed a decrease compared to 2011 while 79 locations showed an increase (and four locations showed no change). Overall, bicycle use increased approximately three percent compared to 2011. Helmet use has remained at 80 percent usage, which was the same in 2011. The split of male to female cyclists also remained essentially steady since 2003, with 69 percent of cyclists identified as male.

All the data discussed in this portion of the report is displayed graphically in the appendix.

Highlights

Bicycle-Friendly Willamette River Bridge Counts
Portland added a fifth bridge to the roster of bicycle-friendly downtown bridges: The Morrison Bridge. 2012 was the first year that the bridge pathway was open for traffic during the spring, summer and fall.

Combined traffic on the five bicycle-friendly bridges totaled 18,794 in the summer of 2012, just under three percent higher than in 2011. The Hawthorne and Broadway bridges showed growth in use while the Steel and Burnside showed declines in use compared to 2011.

Non-Bridge Counts
Volunteers and staff manually counted 214 locations city wide. Unlike the automated counts, these manual counts provide data about gender and helmet use.

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2012 Non-Bridge Bicycle Counts Compared with Prior Years

<table>
<thead>
<tr>
<th>DISTRICT/ LOCATION</th>
<th>% CHANGE SINCE 2000/01</th>
<th>BASED ON # LOCATIONS</th>
<th>% CHANGE SINCE 2011</th>
<th>BASED ON # LOCATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citywide Total</td>
<td>211%</td>
<td>32</td>
<td>3.3%</td>
<td>146</td>
</tr>
<tr>
<td>Central City (west side)</td>
<td>209%</td>
<td>6</td>
<td>0.1%</td>
<td>18</td>
</tr>
<tr>
<td>North</td>
<td>285%</td>
<td>5</td>
<td>8.5%</td>
<td>19</td>
</tr>
<tr>
<td>Northeast</td>
<td>143%</td>
<td>6</td>
<td>9.3%</td>
<td>24</td>
</tr>
<tr>
<td>Southeast</td>
<td>242%</td>
<td>7</td>
<td>3.0%</td>
<td>25</td>
</tr>
<tr>
<td>East</td>
<td>Na</td>
<td>Na</td>
<td>11.0%</td>
<td>21</td>
</tr>
<tr>
<td>Northwest</td>
<td>148%</td>
<td>4</td>
<td>-5.7%</td>
<td>9</td>
</tr>
<tr>
<td>Southwest (excluding Central City)</td>
<td>139%</td>
<td>4</td>
<td>-6.6%</td>
<td>30</td>
</tr>
</tbody>
</table>

1 The two-hour peak period counts are multiplied by five to provide an estimate of total daily bicycle traffic at each counted location. This is a standard traffic engineering rule of thumb. Its accuracy is borne out by our 24-hour automated counts.

2 The other two means include data from the US Department of Commerce (either the annual American Community Survey or the decennial US Census), and the annual resident survey conducted by the City Auditor’s Office.

May 2013 2/5
Citywide Manual Counts

Since 2000/2001, every district in the City has seen consistent and significant growth in bicycle use. The largest gains have been made in North and Southeast Portland. In every district of the city with data from 2000 bicycle activity has either more than doubled or more than tripled.

For the first time the one-year comparison showed significant declines in bicycle use in Northwest and residential Southwest Portland. East, North and Northeast Portland showed strong increases.

Helmet Use

Helmet use in Portland has been trending steadily upward since the early 1990s. In 1992 only 44 percent of Portland cyclists used a helmet. Helmet use has been at or near 80 percent since 2008.

Helmet use is highest in Southwest Portland at 90 percent and lowest in East Portland at 63 percent. Though lowest, helmet use in East Portland showed the highest one-year growth.

As has been the case in every year since 1992, women wear helmets at a higher rate than do men. In 2012 approximately 86 percent of female riders wore helmets compared to 76 percent of men.

Gender Split

Because cities with high bicycle mode shares typically achieve a balance between male and female ridership, gender parity is considered an important indicator of success in creating safe, comfortable and attractive conditions for bicycling. Women represented 31.4 percent of all bicyclists counted during Portland’s summer 2012 counts. That percentage has varied only incrementally since 2003.

Depending on location of the City, the district-wide proportion of women riders fluctuated between 25 percent and 35 percent. The highest proportion of women riding bicycles was observed in Inner Northeast Portland and the lowest was in East Portland. There was little change in proportion of female riders compared to 2011, though growth was greatest in East Portland.
The proportion of women riders at individual locations ranged from a low of 9 percent at East Burnside & 122nd Avenue to a high of 43 percent at several locations.

**Year-Round Counts**

The best indication of seasonal bicycling activity is provided by the daily totals recorded throughout the year on the Hawthorne Bridge.

The first figure in the Appendix shows the counts collected in 2012 on the Hawthorne Bridge compared to summer time peak counts from 2009, 2007, 2005 and 2003. While the graph demonstrates the drop in bicycle use associated with the seasons, it also demonstrates that winter bicycle use in 2012 was generally higher than were the summertime peaks from 2005.

**Crash Data**

The City of Portland reports an indexed bicycle crash rate based on the reported number of crashes and the number of daily bicycle trips across four of the central Willamette River bridges. A chart displaying the change in that rate over time is included in this report.

Beginning in 2008, in response to the city’s Community Policing Agreement with the Police Bureau, the Bicycle Transportation Alliance and the Willamette Pedestrian Coalition, the Police Bureau amended their procedures for reporting crashes, resulting in more of the crashes involving a bicycle being reported. This increase does not necessarily represent a real increase in the number of overall bicycle-involved crashes. The elevation may simply have occurred because fewer crashes are going unreported. Because of this lowered threshold for reporting, reported bicycle crashes no longer offer an “apples to apples” comparison to bicycle crashes reported prior to 2008.

Reported bicycle crashes declined in 2011 (the last full year for which data is available) for the first time since 2007.

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2012 Locations with Highest and Lowest Share of Female Cyclists*

<table>
<thead>
<tr>
<th>RANK</th>
<th>LOCATION</th>
<th>% TRIPS BY WOMEN</th>
<th>TOTAL DAILY TRIPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NE Broadway &amp; 7th</td>
<td>43%</td>
<td>1,530</td>
</tr>
<tr>
<td>2</td>
<td>NE Hancock &amp; 47th</td>
<td>43%</td>
<td>680</td>
</tr>
<tr>
<td>3</td>
<td>SE Spokane &amp; 15th</td>
<td>43%</td>
<td>675</td>
</tr>
<tr>
<td>4</td>
<td>SW Moody &amp; Gibbs</td>
<td>43%</td>
<td>1,890</td>
</tr>
<tr>
<td>5</td>
<td>NE Morris &amp; 7th</td>
<td>42%</td>
<td>880</td>
</tr>
<tr>
<td>6</td>
<td>SW Moody &amp; River Parkway</td>
<td>42%</td>
<td>2,005</td>
</tr>
<tr>
<td>7</td>
<td>N Michigan &amp; Rosa Parks</td>
<td>42%</td>
<td>550</td>
</tr>
<tr>
<td>8</td>
<td>N Vancouver &amp; Ainsworth</td>
<td>42%</td>
<td>1,160</td>
</tr>
<tr>
<td>9</td>
<td>N Vancouver &amp; Going</td>
<td>41%</td>
<td>3,225</td>
</tr>
<tr>
<td>10</td>
<td>N Vancouver &amp; Russell</td>
<td>41%</td>
<td>5,160</td>
</tr>
<tr>
<td>...</td>
<td>NE 1-205 path and Airport Wy O’pass</td>
<td>16%</td>
<td>455</td>
</tr>
<tr>
<td>162</td>
<td>SW Multnomah &amp; 45th</td>
<td>16%</td>
<td>405</td>
</tr>
<tr>
<td>163</td>
<td>NE 102nd &amp; Pacific</td>
<td>16%</td>
<td>250</td>
</tr>
<tr>
<td>164</td>
<td>NE Halsey &amp; 122nd</td>
<td>16%</td>
<td>380</td>
</tr>
<tr>
<td>165</td>
<td>SW Jackson &amp; 6th</td>
<td>15%</td>
<td>485</td>
</tr>
<tr>
<td>166</td>
<td>N Union Path at I-5 ramp</td>
<td>15%</td>
<td>580</td>
</tr>
<tr>
<td>167</td>
<td>NE Maywood Pl &amp; I-205 path</td>
<td>14%</td>
<td>295</td>
</tr>
<tr>
<td>168</td>
<td>N Fessenden &amp; Peninsula Xing Trail</td>
<td>11%</td>
<td>350</td>
</tr>
<tr>
<td>169</td>
<td>SW Barbur Blvd &amp; Capitol Hwy</td>
<td>10%</td>
<td>290</td>
</tr>
<tr>
<td>170</td>
<td>E Burnside &amp; 122nd</td>
<td>9%</td>
<td>400</td>
</tr>
</tbody>
</table>

*minimum 50 people counted during 2-hour peak
Census Data
This year's count report includes maps showing bicycle commuting from US Census data in 1990 and 2000 as well as data from the US Census American Community Survey, which report census-tract level data in rolling five-year averages. These maps show the progression in bicycle use in Portland over this period.

The red circle on the maps displays a four-mile radius centered on the Burnside Bridge.
APPENDIX: GRAPHS AND CHARTS

Graphs

Daily Hawthorne Bridge Counts
Summer Bicycle Traffic (5 Central City Bicycle Bridges)
Bicycle Traffic across Five Main Portland Bicycle Bridges Juxtaposed with Bikeway Miles
Bicycle Traffic at City Count Locations: Bridge and Non-Bridge Traffic
Changes in Bicycle Traffic Bride and Non-Bridge Locations 2012
Annual Growth in Bicycle Traffic Bridge and Non-Bridge Locations 2007-2012
Annual Growth in Bicycle Traffic City Districts 2007-2012
Daily Bicycle Counts by Section of City
  SE Portland
  North Portland
  East Portland
  NE Portland
  West Portland (Central City)
  Southwest Portland (not including Central City)
  Northwest Portland (not including Central City)
Greenways
City of Portland Bicycle Counts by Year by Gender
City of Portland Bicycle Counts by Sector 2012 by Gender
City of Portland Bicycle Counts by Year by Helmet Use
City of Portland Bicycle Counts by Sector 2012 by Helmet Use
City of Portland Bicycle Counts by Sector 2012 by Gender and Helmet Use
Combined Bicycle Traffic over Five Main Portland Bicycle Bridges Juxtaposed with Bicycle Crashes

Maps

2012 Bicycle Count Locations by Daily Bicycle Traffic
2012 Bicycle Count Locations by Percentage of Women
2012 Bicycle Count Locations by Percentage of Helmet Use
Portland Oregon Bicycle Commute Mode Split by Census Tract
  1990 US Census
  2000 US Census
  2005-2009 ACS
  2006-2010 ACS
  2007-2011 ACS
Daily Hawthorne Bridge Counts
January 1 2012-December 31 2012

Bicycle Trips
Weekday
Weekend

2009 peak use: 7,063
2007 peak use: 6,423
2003 peak use: 4,055
2005 peak use: 4,829

source: Portland Bureau of Transportation
### Summer Bicycle Traffic

**5 Central City Bicycle Bridges**

**Based on either 24-hour hose counts or extrapolated from 4-6 pm counts**

#### Daily Bicycle Trips

<table>
<thead>
<tr>
<th>Year</th>
<th>Morrison</th>
<th>Hawthorne</th>
<th>Steel</th>
<th>Broadway</th>
<th>Burnside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before 1992</td>
<td>1,390</td>
<td>1,500</td>
<td>1,920</td>
<td>1,940</td>
<td>1,910</td>
</tr>
<tr>
<td>1992</td>
<td>2,165</td>
<td>2,170</td>
<td>2,471</td>
<td>3,154</td>
<td>3,125</td>
</tr>
<tr>
<td>1993</td>
<td>3,729</td>
<td>3,682</td>
<td>4,055</td>
<td>4,428</td>
<td>4,829</td>
</tr>
<tr>
<td>1994</td>
<td>5,557</td>
<td>6,423</td>
<td>7,379</td>
<td>7,063</td>
<td>7,133</td>
</tr>
<tr>
<td>1995</td>
<td>8,044</td>
<td>8,136</td>
<td>8,044</td>
<td>8,136</td>
<td>8,044</td>
</tr>
<tr>
<td>1996</td>
<td>16,711</td>
<td>17,576</td>
<td>18,257</td>
<td>18,794</td>
<td>18,794</td>
</tr>
<tr>
<td>1997</td>
<td>14,563</td>
<td>15,749</td>
<td>16,711</td>
<td>17,576</td>
<td>18,257</td>
</tr>
<tr>
<td>1998</td>
<td>12,046</td>
<td>13,450</td>
<td>14,563</td>
<td>15,749</td>
<td>17,576</td>
</tr>
<tr>
<td>1999</td>
<td>10,192</td>
<td>11,590</td>
<td>12,046</td>
<td>13,450</td>
<td>15,749</td>
</tr>
<tr>
<td>2000</td>
<td>8,921</td>
<td>9,921</td>
<td>10,192</td>
<td>11,590</td>
<td>13,450</td>
</tr>
<tr>
<td>2001</td>
<td>7,624</td>
<td>8,250</td>
<td>8,921</td>
<td>9,921</td>
<td>10,192</td>
</tr>
<tr>
<td>2002</td>
<td>6,074</td>
<td>6,824</td>
<td>7,624</td>
<td>8,250</td>
<td>8,921</td>
</tr>
<tr>
<td>2003</td>
<td>5,051</td>
<td>5,791</td>
<td>6,074</td>
<td>6,824</td>
<td>7,624</td>
</tr>
<tr>
<td>2004</td>
<td>4,315</td>
<td>4,915</td>
<td>5,051</td>
<td>5,791</td>
<td>6,074</td>
</tr>
<tr>
<td>2005</td>
<td>4,086</td>
<td>4,626</td>
<td>4,315</td>
<td>4,915</td>
<td>5,051</td>
</tr>
<tr>
<td>2006</td>
<td>3,819</td>
<td>4,329</td>
<td>4,086</td>
<td>4,626</td>
<td>4,315</td>
</tr>
<tr>
<td>2007</td>
<td>3,542</td>
<td>4,042</td>
<td>3,819</td>
<td>4,329</td>
<td>4,086</td>
</tr>
<tr>
<td>2008</td>
<td>3,275</td>
<td>3,775</td>
<td>3,542</td>
<td>4,042</td>
<td>3,819</td>
</tr>
<tr>
<td>2009</td>
<td>3,018</td>
<td>3,518</td>
<td>3,275</td>
<td>3,775</td>
<td>3,542</td>
</tr>
<tr>
<td>2010</td>
<td>2,761</td>
<td>3,261</td>
<td>3,018</td>
<td>3,518</td>
<td>3,275</td>
</tr>
<tr>
<td>2011</td>
<td>2,504</td>
<td>2,994</td>
<td>2,761</td>
<td>3,261</td>
<td>3,018</td>
</tr>
<tr>
<td>2012</td>
<td>2,247</td>
<td>2,747</td>
<td>2,504</td>
<td>2,994</td>
<td>2,761</td>
</tr>
</tbody>
</table>

**Notes:**
- *Broadway Bridge closed for construction during time of count.
- **2012 was the first year that the Morrison Bridge bikeway was open all summer to bicycle traffic.
Bicycle Traffic across Five Main Portland Bicycle Bridges Juxtaposed with Bikeway Miles

Extrapolated from peak period counts

Year

Cyclists per Day

Bridge Bicycle Traffic

Bikeway Miles

Bikeway Miles


Bridge Bicycle Traffic 2,850 3,555 3,885 3,830 3,207 4,520 5,225 5,690 5,910 6,015 7,686 8,250 8,562 8,875 10,192 12,046 14,563 16,711 15,749 17,576 18,257 18,794

Bikeway Miles 79 84.5 87 104 114 144 167 183 214 222.5 236 253 256 262 265.5 269 272 274 281 299 307 328

Extrapolated from peak period counts
Bicycle Traffic at City Count Locations
Bridge and Non-Bridge Traffic

Based on 24-hour hose counts or extrapolated from peak period counts

Bridge Bicycle Traffic

Non-Bridge Bicycle Traffic
Based on 32 locations city-wide

Year

0
2,500 5,000 7,500 10,000 12,500 15,000 17,500 20,000

0
10,000 20,000 30,000 40,000 50,000 60,000


Bridge Bicycle Traffic:
2,850 3,555 3,885 3,830 5,225 5,690 6,015 7,686 8,250 8,562 10,192 12,046 14,563 16,711 15,749 17,576 18,257 18,794

Non-Bridge Bicycle Traffic:
25,820 30,560 41,730 38,085 40,965 43,030 44,640

(based on 32 locations city-wide)
Changes in Bicycle Traffic

Based on manual and automated bicycle counts
*used the higher of data available 2000/2001

One-Year Change (since 2011) Change since 2000/2001*

0% 20% 40% 60% 80% 100% 120% 140% 160% 180% 200% 220% 240%

Based on counts from 32 locations city-wide

Based on counts from 146 locations city-wide

Non-Bridge Locations
Bridges (Hawthorne, Burnside, Steel & Broadway)
Combined Bridge & Non-Bridge
Annual Growth in Bicycle Traffic
Bridge and Non-Bridge Locations 2007-2012

Based on manual and automated bicycle counts

Non-Bridge Locations
Bridges (Hawthorne, Burnside, Steel & Broadway)
Combined Bridge & Non-Bridge
Annual Growth in Bicycle Traffic
City Districts 2007-2012

Based on manual and automated bicycle counts
Daily Bicycle Traffic Inner SE Portland
2012 Counts Compared to Previous Years

Based on either 24-hour hose counts or extrapolated from 2-hour peak counts
*Counted at NW corner of circle, compared to counts at SE corner in the years prior to 2008.
Daily Bicycle Traffic North Portland
2012 Counts Compared to Previous Years

Extrapolated from 2-hour peak counts

Daily Bicycle Trips

Location

Prior to 2000 2000 2001
2003 2004 2006
2007 2008 2009
2010 2011 2012

Extrapolated from 2-hour peak counts
Daily Bicycle Traffic East Portland
2012 Counts Compared to Previous Years

Based on either 24-hour hose counts or extrapolated from 2-hour peak counts
Daily Bicycle Traffic Inner NE Portland
2012 Counts Compared to Previous Years

Extrapolated from 2-hour peak counts
Daily Bicycle Traffic West Portland (Central City)
2012 Counts Compared to Previous Years

Location

Extrapolated from 2-hour peak counts
Daily Bicycle Traffic Southwest Portland (not incl. Central City)  
2012 Counts Compared to Previous Years

Daily Bicycle Trips

Extrapolated from 2-hour peak counts
Daily Bicycle Traffic Northwest Portland (not incl. Central City)
2012 Counts Compared to Previous Years

Daily Bicycle Trips

Extrapolated from 2-hour peak counts
Daily Bicycle Traffic Greenways
2012 Counts Compared to Previous Years

Extrapolated from 2-hour peak counts

*Counts include bicycles traveling on the greenway (does not include bicycles crossing the greenway)
City of Portland Bicycle Counts by Year
By Gender

Percentage of all Cyclists

Year

based on manual peak hour counts
City of Portland Bicycle Counts by Sector 2012
By Gender

Percentage of all Cyclists

<table>
<thead>
<tr>
<th>Sector</th>
<th>Men (Cyclists)</th>
<th>Women (Cyclists)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner NE Portland</td>
<td>6,521</td>
<td>6,431</td>
</tr>
<tr>
<td>North Portland</td>
<td>6,431</td>
<td>36,617</td>
</tr>
<tr>
<td>Citywide</td>
<td>11,536</td>
<td>3,349</td>
</tr>
<tr>
<td>Inner SE Portland</td>
<td>2,702</td>
<td>2,298</td>
</tr>
<tr>
<td>NW Portland</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW Portland</td>
<td></td>
<td></td>
</tr>
<tr>
<td>East Portland</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Based on manual peak hour counts.
Number in columns is total number of cyclists recorded in counts in each sector.
City of Portland Bicycle Counts by Sector 2012
By Helmet Use

Percentage of all Cyclists

<table>
<thead>
<tr>
<th>Sector</th>
<th>Not Wearing Helmets</th>
<th>Wearing Helmets</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW Portland</td>
<td>2,702 cyclists</td>
<td>No change since 2011</td>
</tr>
<tr>
<td>North Portland</td>
<td>6,431 cyclists</td>
<td>Down 1.5% since 2011</td>
</tr>
<tr>
<td>NW Portland</td>
<td>3,349 cyclists</td>
<td>Up 3% since 2011</td>
</tr>
<tr>
<td>Citywide</td>
<td>36,617 cyclists</td>
<td>No change since 2011</td>
</tr>
<tr>
<td>Inner NE Portland</td>
<td>6,521 cyclists</td>
<td>No change since 2011</td>
</tr>
<tr>
<td>Inner SE Portland</td>
<td>11,536 cyclists</td>
<td>Up 2% since 2011</td>
</tr>
<tr>
<td>East Portland</td>
<td>2,298 cyclists</td>
<td>Up 5% since 2011</td>
</tr>
</tbody>
</table>

Number in columns is total number of cyclists recorded in counts in each sector.

Based on manual peak hour counts.
City of Portland Bicycle Counts by Sector 2012
By Gender and Helmet Use

Percentage of all Cyclists

<table>
<thead>
<tr>
<th>Sector</th>
<th>Women without helmets</th>
<th>Women with helmets</th>
<th>Men without helmets</th>
<th>Men with helmets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner NE Portland</td>
<td>15%</td>
<td>85%</td>
<td>24%</td>
<td>76%</td>
</tr>
<tr>
<td>North Portland</td>
<td>13%</td>
<td>87%</td>
<td>20%</td>
<td>80%</td>
</tr>
<tr>
<td>Citywide</td>
<td>14%</td>
<td>86%</td>
<td>23%</td>
<td>77%</td>
</tr>
<tr>
<td>Inner SE Portland</td>
<td>16%</td>
<td>84%</td>
<td>24%</td>
<td>76%</td>
</tr>
<tr>
<td>NW Portland</td>
<td>12%</td>
<td>88%</td>
<td>24%</td>
<td>76%</td>
</tr>
<tr>
<td>SW Portland</td>
<td>6%</td>
<td>92%</td>
<td>11%</td>
<td>89%</td>
</tr>
<tr>
<td>East Portland</td>
<td>25%</td>
<td>75%</td>
<td>40%</td>
<td>60%</td>
</tr>
</tbody>
</table>

based on manual peak hour counts
Combined Bicycle Traffic over Five Main Portland Bicycle Bridges Juxtaposed with Bicycle Crashes

Extrapolated from peak period counts

"Crash Rate" represents an indexing of annual reported crashes to daily bicycle trips across the four main bicycle bridges.

*2008, 2009 Reported Bicycle Crashes data reflects a decision by the Portland Police Bureau to lower the threshold for reporting bicycle-involved crashes. This change, beginning in January 2008 means that crashes previously unreported by Portland Police are now entering the reporting system. There have been no indications in the operation of our system that leads the city to conclude that the increase in reported crashes is representative of changes in actual crash activity with in the city.
2012 Bicycle Count Locations by Daily Bicycle Traffic

Legend
Total Cyclists
- 4376 - 8136
- 2816 - 4375
- 1756 - 2815
- 1076 - 1755
- 681 - 1075
- 386 - 680
- 206 - 385
- 45 - 205

Cycle Zone Index
Best
Worst

Based on 2-hour peak hour counts except:
Hawthorne, Steel and Broadway Bridge counts
(based on 24-hour counts)
Legend

🌟 Greater than 40%*
🌟 Less than 17%*

*for locations with at least 50 cyclists in 2-hr peak

Percent Female Cyclists
- greater than 40%
- 31 - 40%
- 26 - 30%
- 20 - 25%
- less than 20%

Cycle Zone Index
- Best
- Worst

2012 Bicycle Count Locations by Percentage of Women

Based on 2-hour peak hour counts except:
Hawthorne, Steel and Broadway Bridge counts
(based on 24-hour counts)
2012 Bicycle Count Locations by Percentage of Helmet Use

Legend
Percent with Helmets
- greater than 90%
- 78 - 90%
- 66 - 70%
- 50 - 65%
- less than 50%

Cycle Zone Index
- Best
- Worst

Based on 2-hour peak hour counts except: Hawthorne, Steel and Broadway Bridge counts (based on 24-hour counts)
Portland Oregon Bicycle Commute Mode Split by Census Tract

Legend

Existing Bikeways mid-point year

- 0 to 1.5
- 1.51 to 4
- 4.1 to 6
- 6.1 to 8
- 8.1 to 10
- 10.1 to 12
- 12.1 to 15
- 15.1 to 20
- 20.1 to 25
- 25.1 to 33

ACS 2006-2010