

# 2005 Congestion Monitoring Report



Southwest Washington Regional Transportation Council

# **2005 CONGESTION MONITORING REPORT**

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# CHAPTER I. INTRODUCTION

The Congestion Management Process serves as the foundation for monitoring the regional transportation system and for providing ongoing information. The monitoring element of the congestion management network is designed as an informational tool to be used within the decision-making process. It is also intended to provide an understanding of the transportation system's operating conditions and deficiencies and to assess the impacts of alternative improvement strategies. In this way, it will help to focus efforts while allowing flexibility in the project selection process.

RTC's first Congestion Monitoring Report was initiated as a result of the 1991 Intermodal Surface Transportation Efficiency Act, which required regions like the Vancouver/Clark County urban area to develop management systems. The federal interest in a congestion management system was to have the regional planning process develop better analysis tools for evaluating alternative strategies for addressing traffic congestion problems.

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## A. PURPOSE AND NEED

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The purpose of the Congestion Management Process is to develop a process that provides for effective management and operation of the Congestion Management System.

This is accomplished through data collection, analysis of system performance, identification of system needs, and implementation of improvement strategies.

Traffic congestion negatively impacts the region's natural environment, economy,

and quality of life. Through the congestion management monitoring process, the decision-making process is improved by identifying current congestion along the transportation system.

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## B. GOALS

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The following goals were used to guide the development of the Congestion Management Process:

- Focus upon congestion
- Be practical and easy to apply
- Emphasize regional travel perspective

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## C. SCOPE

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The scope of the congestion management network includes 30 regionally significant transportation corridors within the Clark County, Washington region.

The congestion monitoring process originally began with an emphasis on traffic volumes and transportation facility capacity to monitor transportation system congestion through the development of a corridor capacity ratio. In order to provide a more comprehensive analysis of the operation of the transportation system, the congestion monitoring process was expanded to include additional data elements.

The congestion management system has evolved to incorporate time-based and other multimodal measures to improve knowledge regarding the operation of the transportation system and the characteristics of regional travel.

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## D. CONGESTION MANAGEMENT SYSTEM

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### 1. CORRIDOR CONCEPT

An important step in defining the congestion management network was to define the basic unit for describing the network and performing analysis. For the Vancouver/Clark County congestion management network, transportation corridors were selected as that unit. Where appropriate, individual corridors are made up of more than one transportation facility. The multi-facility corridors occur where there are parallel facilities serving the same function and to support the concept that transit or transportation demand management impacts a corridor rather than a single facility.

Although data is reported for individual facilities for the multiple facility corridors, they are still grouped by the congestion management corridor they are associated with and by a set of specific endpoints. These constituent facilities are defined as those major regional facilities (i.e., principal arterials and freeways) that run in parallel and may be used as alternative routes. It should be noted that a corridor might consist of only one facility if there are no alternative facilities in close proximity. The endpoints for each corridor represent locations where the characteristics of the corridor change significantly.

Each facility within a corridor is further divided into a series of segments. A segment is the portion of roadway between major intersections or interchanges. To allow for consistent operational analysis, corridor segments were developed such that the capacity and number of lanes remain the same within each segment.

### 2. CONGESTION MANAGEMENT NETWORK

The boundaries of the Vancouver/Clark County Congestion Management System were set as the Vancouver metropolitan area. The exceptions to this definition are the major inter-regional corridors and major arterial corridors connecting other cities to the base congestion management network, (I-5, SR-14, SR-501, SR-502, SR-503, and La Center Road). This included the addition of congestion management corridors to connect Battle Ground, Ridgefield, and La Center with the base network.

Within these boundaries, the first step in defining the network was to identify a set of candidate facilities and corridors. Only regionally significant corridors were considered as candidates for the network. Regionally significant corridors were defined as facilities that are part of the Regional Transportation System as identified in the Metropolitan Transportation Plan (MTP).

The initial congestion management network was refined from the list of candidate corridors. Using federal guidelines to include facilities with "existing or potential recurring congestion," professional judgment was used to identify those corridors that are currently or are likely to become congested.

The original congestion management network was made up of twenty-one transportation corridors. The current congestion management network is comprised of thirty corridors. The primary reasons for inclusion of additional corridors have been to provide more logical breakpoints, to connect to other significant urban areas, recognize new connections, or increasing congestion.

The existing Congestion Management Network is listed in **Table 1** and illustrated on **Map 1** (Page 19).

**Table 1 – Corridors in the Congestion Management Network**

<b>Corridor Name</b>	<b>Facilities</b>	<b>Endpoints</b>	
I-5 – North	I-5	County Line	I-205 Interchange
I-5 – Central	I-5, Hwy 99, Hazel Dell	I-205 Interchange	Main St.
I-5 - South	I-5, Main Street	Main St. Interchange	Jantzen Beach
I-205 – Central	I-205	I-5 interchange	SR 500
I-205 – South	I-205, 112 <sup>th</sup> Avenue	SR 500	Airport Way
St. Johns	St. Johns Rd./St. James Rd., Fort Vancouver Way	NE 72nd Ave.	Mill Plain Blvd.
Andresen - North	Andresen Rd. / N.E. 72nd Avenue.	119th St	SR 500
Andresen - South	Andresen Rd.	SR 500	Mill Plain Blvd.
SR-503 North	SR 503	SR 502	119th St.
SR 503 South	SR 503	119th St.	Fourth Pl./SR 500
137 <sup>th</sup> Avenue	136 <sup>th</sup> /137 <sup>th</sup> /138 <sup>th</sup> Avenue	Padden Parkway	Mill Plain Blvd.
162nd Av. North	162nd/164th Avenue	Ward Rd.	Mill Plain Blvd.
164th Av. South	164th Avenue	Mill Plain Blvd.	SR-14
SR 14 West	SR 14	I-5	I-205
SR 14 Central	SR 14	I-205	164th Ave.
SR 14 East	SR 14	164th Ave.	Evergreen Hwy.
SR-501/Fourth Plain	SR-501/Mill Plain, Fourth Plain	I-5	NW 26 <sup>th</sup> Street
Mill Plain West	Mill Plain Blvd.	I-5	I-205
Mill Plain East	Mill Plain Blvd.	I-205	164th Ave.
Fourth Plain West	Fourth Plain	I-5	Andresen Rd.
SR 500 – West	SR 500	I-5	Andresen Rd.
Fourth Plain /SR-500 Central	SR 500, Fourth Plain	Andresen Rd.	SR 503
Fourth Plain – East	Fourth Plain	SR 503	162nd Ave.
78 <sup>th</sup> /Padden Parkway	78th St./76th St., Padden Parkway	Lakeshore Ave.	Ward Rd.
99 <sup>th</sup> Street	99 <sup>th</sup> St.	Lakeshore Ave.	St. Johns Blvd.
28 <sup>th</sup> /18th Street	28th Street, Burton Rd, 18th Street	Andresen Rd.	164th Avenue
134th Street	134th St./139th St./Salmon Creek Ave.	NW 36th Ave.	WSU Entrance
SR-502	SR 502	I-5	SR 503
SR 501	SR 501	I-5	9th St. (Ridgefield)
La Center Road	La Center Rd.	I-5	E. Fork Lewis Rv.

### 3. DATA ELEMENTS

Collected data elements include traffic counts, travel time, automobile occupancy, and transit ridership. In addition, RTC compiles and collects other measures of system performance including highest volume intersections, Columbia River bridge volumes, and park and ride capacity.

This collected data serves as the basis for developing vehicle volumes, Columbia River crossing, capacity ratio, truck percentage, travel speed, speed as percent of posted speed limit, intersection delay, automobile occupancy, transit ridership by type of service, transit seat capacity, and transit seat percent of lane capacity.

### 4. DATA COLLECTION

RTC is responsible for setting up a process for the collection of congestion data. Some of the needed data is regularly collected by other transportation agencies within the Clark County region. RTC organized a process for collecting existing data on a regular basis and initiated the collection of additional data needs.

Except for the traffic count program, there had been a lack of easily accessible transportation congestion data that supported the congestion management monitoring process. In order to provide a more comprehensive analysis of the operation of the transportation system, RTC coordinated with local transportation agencies or contracted to collect needed transportation data.

The City of Vancouver and Clark County collect extensive travel time data in the p.m. period along concurrency corridors. RTC reviewed the corridors covered and contracts to collect the additional travel time for corridors not part of the City's or

County's effort. In addition, RTC collects a.m. travel time data.

RTC coordinates with C-TRAN for the collection of peak period passenger counts for transit routes along the congestion management corridors.

RTC also initiated an effort for the collection of automobile occupancy information at 15 key locations on various regional transportation facilities within the region. A representative automobile occupancy rate by facility type and geographic area was developed based on this analysis.

The flow for the collection of transportation data is illustrated on **Figure 1**.

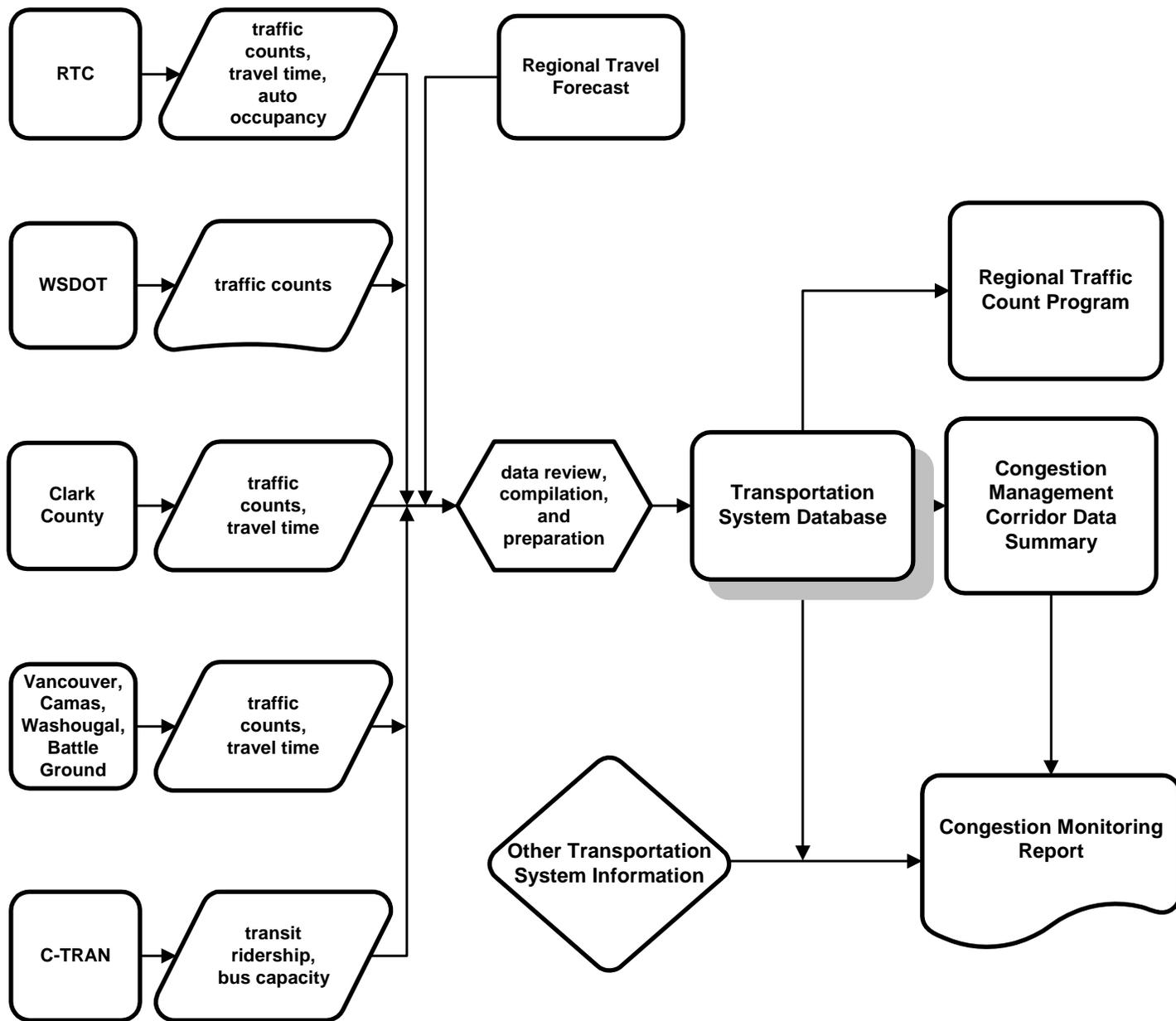
### 5. DATA ANALYSIS AND SYSTEM PERFORMANCE

Transportation data is analyzed and validated for use in the congestion monitoring process. The collected data is then applied to develop system performance measures for the transportation corridors. System performance data is then illustrated through tables and maps. The system performance data and maps are then used to identify system deficiencies and needs.

### 6. REPORTING

The congestion monitoring results are displayed through the annual development of a Congestion Monitoring Report. The intent of the report is to provide transportation system performance information to staff and decision-makers that must identify the most cost-effective strategies for addressing transportation congestion and improving mobility. The Congestion Monitoring Report is available through RTC in print or the internet at [www.rtc.wa.gov](http://www.rtc.wa.gov)

Figure 1 - Transportation Data Flow





## CHAPTER II. SUMMARY OF PERFORMANCE

This section contains a discussion and display of data information contained in the Congestion Monitoring Report.

Part A consists of the data compiled and collected for the congestion monitoring process and comprised of data that is configured to match the congestion management corridor delineation. Part B consists of other transportation information and data elements that do not necessarily match the congestion management corridors, although in some cases makes use of the data developed in Part A. Part C includes a summary of the corridor trends between year 2000 and 2005. Part D uses segmental transportation data included in Appendix A rather than corridor summary data. Part D identifies specific areas with congestion concerns.

The primary cause of congestion is an imbalance between transportation demand and available capacity. The difficulty in defining congestion is that congestion varies by how people accept delay. One simple definition of congestion is the delay of travel in excess of what is normally experienced under light traffic conditions. Four related factors that are often used to quantify the severity of traffic congestion include duration, extent, intensity, and reliability.

There are many sources of congestion including bottlenecks, traffic incidents, bad weather, construction, poor signal timing, and other events. The source of congestion can vary from one corridor to another, such that the strategies to improve capacity must be tailored to each corridor.

This report attempts to measure and quantify average weekday AM and PM

peak period “congestion” consistently across the congestion management corridors, through the use of performance measures. This report does not attempt to measure non-recurrent congestion created by a traffic incident or bad weather.

Through analysis of transportation system performance, strategies can be identified to improve mobility and lessen delay in the peak period.

It is important to remember that the congestion monitoring report focuses on a regional system-wide framework for analyzing congestion.

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### A. CONGESTION MANAGEMENT CORRIDORS

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#### 1. VEHICLE VOLUMES

AM and PM peak hour vehicle volumes were compiled from the regional traffic count database. Volumes represent traffic counts within each corridor and provides a good comparison of the relative difference in travel demand among the congestion management corridors.

Peak hour traffic volumes for the congestion management corridors are delineated by four volume range categories. These categories are intended to provide a regional picture of travel flows for the Clark County region.

**Map 2, Page 20:** During the AM peak, I-5 and I-205 and portions of SR-14 and SR-500 display volumes greater than 3,000 vehicles per hour. Within the region, facilities carrying more than 1,500 vehicles per hour include other segments of SR-14 and SR-500, and Mill Plain east

of I-205, Fourth Plain east of I-205, 164<sup>th</sup> Avenue south of Mill Plain, SR-503, Padden Parkway, and Main Street.

**Map 3, Page 21:** PM peak hour trends for traffic volumes for most of the congestion management corridors are similar to AM peak; although, most congestion management corridors carry higher volumes during the PM peak. Additional corridors carrying more than 3,000 vehicles per hour include SR-14 between I-5 and I-205. Additional corridors carrying more than 1,500 vehicles per hour include Mill Plain west of I-5, Andresen Road south, and 112<sup>th</sup> Avenue. The corridors with the highest peak hour volume difference (at least 500 additional vehicles) between the AM and PM peak include: I-5, Main Street, 112<sup>th</sup> Avenue, and Fourth Plain East. For Main Street the AM Peak volumes are significantly higher than the PM Peak volumes.

## 2. CORRIDOR CAPACITY RATIO

The corridor capacity ratio is an aggregation of the volume/capacity ratios for the individual general-purpose segments that make up a facility within a corridor. The corridor capacity ratio is calculated for both the AM and PM peak hours, and for the peak directions of travel within a corridor. For each segment in a corridor, the volume/capacity ratio, vehicle miles traveled, and vehicle miles traveled weighted by volume/capacity ratio (the product of the volume/capacity ratio and vehicle miles traveled) for the peak hour are calculated. The corridor capacity ratio is the sum of the weighted link ratios.

**Map 4, Page 22:** Both the AM and PM periods show congestion along major facilities such as I-5 South, I-205 South, and SR-14 Central. Much of the AM period congestion can be attributed to the demand for crossing the two Interstate bridges into Oregon. Generally, the PM period displays higher corridor congestion

than that experienced in the AM period. The main exception includes Main Street. On Main Street, congestion can be attributed to morning commuters using Main Street as an alternative to the congested I-5 corridor.

**Map 5, Page 23:** In the PM period, additional congestion is shown along, Fourth Plain East, SR-503-South, and Burton Road.

The near-term capacity improvement projects along Burton Road will likely reduce the corridor capacity ratio. Other planned projects will also provide future capacity and reduce capacity ratios.

## 3. CORRIDOR TRAVEL SPEED

The City of Vancouver, Clark County, and RTC collect travel time data annually. The data is collected using global position units (GPS) and by driving corridors as many times as possible during peak periods. Travel speed is computed from the travel time data. It consists of utilizing the travel time and distance to calculate the average travel speed.

In general, facilities with multiple at-grade intersections, display lower speeds. While grade-separated facilities show much faster speeds. Usually the PM period displays lower corridor speed than that experienced in the AM period.

**Map 6 & 7, Pages 24-25:** One concern is regional facilities that have a travel speed below 25 mph, which may encourage neighborhood cut-through traffic. During the AM period I-5 South, Main Street, SR-503 South, 164<sup>th</sup> Avenue South, Fourth Plain west of Andresen Road, Mill Plain, and 18<sup>th</sup> Street display speeds below 25 mph.

In the PM period corridors with travel speed below 25 mph include Highway 99, Hazel Dell Avenue, Main Street, 112<sup>th</sup> Avenue, St. Johns, Andresen Road, 137<sup>th</sup>

Avenue, 164<sup>th</sup> Avenue South, Fourth Plain, Mill Plain, Burton Road, and 18<sup>th</sup> Street.

**4. SPEED AS PERCENT OF SPEED LIMIT**

Travel speed was converted to a percent of posted speed limit for each of the congestion management corridors. This was intended to provide another measure of the delay along the corridor.

As development occurs along the corridors, travel speed often decreases because of multiple driveways and additional traffic signals. One of the difficulties is in balancing access to land uses and maintaining the throughput travel speed of arterials.

The speed percentages for the freeway facilities are generally close to 100% of the posted speed limit. While facilities with multiple signalized intersections are generally between 65% and 80% of the posted speed limit.

**Map 8, Page 26:** In the AM period, I-5, SR-503 South, 164<sup>th</sup> Avenue South, Mill Plain, and 18<sup>th</sup> Street operate at less than 65% of the posted speed.

**Map 9, Page 27:** In the PM peak, arterials and freeways generally display lower percentages, due to higher congestion. In the PM period, Highway 99, Hazel Dell, Main Street, 112<sup>th</sup> Avenue, St. Johns, Andresen Road, 137<sup>th</sup> Avenue, 164<sup>th</sup> Avenue South, Fourth Plain west of I-5, Fourth Plain East, Burton Road, 18<sup>th</sup> Street, and Mill Plain operate at less than 65% of the posted speed.

**5. INTERSECTION DELAY**

The time stopped at an intersection, for the through movement was recorded as part of the travel time data. The stop time at an intersection was averaged for the multiple travel time runs. Intersections with an average stop time of greater than 30 seconds and 60 seconds were

identified as a location of delay along a corridor. This delay is only calculated for through movement on the congestion management corridor and does not include delay associated with left turns or cross street traffic.

**Map 10, Page 28:** Generally, intersections that displayed a 30 second or greater delay, for the average through movement on a CMS corridor, were located where two major arterials intersect. Map 10 displays the location of the 54 intersections that demonstrated this delay characteristic (9 of which had a delay greater than 60 seconds). Delay at these intersections add to the overall travel time and reduce the corridor's full capacity and increase travel time.

In addition to intersection delay, delay can also occur at freeway off ramps, where high volumes of traffic are loaded on to the arterial system.

**6. AUTOMOBILE OCCUPANCY**

Average automobile occupancy is calculated by observing passenger cars at a given location and the number of people in each vehicle. The number of people divided by the number of passenger cars is the average automobile occupancy for that location. Trucks, buses, and other commercial vehicles are excluded from average automobile occupancy. In 2002 and 2003, data was collected for the AM, PM, and Midday time periods. (**Table 2**)

**Table 2  
2002/2003 Average Automobile  
Occupancy by Time of Day**

Facility Type	AM	Mid-Day	PM
<sup>1</sup> Freeway	<sup>2</sup> 1.10	1.19	1.12
Arterial	1.11	1.23	1.24

<sup>1</sup>Freeway includes I-5, I-205, and SR-14

<sup>2</sup>Includes I-5 HOV lane (Rate is 1.07 without I-5)

The AM time period displays the lowest average automobile occupancy for all facility types, with the AM average automobile occupancy generally at 1.11 persons per vehicle or lower. The one exception was along west 139<sup>th</sup> Street near the Vancouver Schools (High, Middle, and elementary). This high vehicle occupancy can be attributed to school trips where children are frequently transported by parents or friends. The I-205 and SR-14 corridors have the lowest AM automobile occupancy all at 1.03.

In the PM peak, SR-14, I-205 south, and I-5 south have the lowest average automobile occupancy rates (1.03 to 1.08). The Fourth Plain, Mill Plain, and Highway 99 corridors have the highest PM average automobile occupancy rates (1.31-1.34). This may be due to a higher percentage of non-commute trips in these corridors.

Overall, the midday automobile occupancy rates are near 1.23, with a lower variation between corridors.

It may be that the AM peak period is more of a traditional commute time. The PM and the midday time periods likely have a greater percentage of discretionary trips such as shopping where drive alone trips are less prominent.

## 7. TRUCK PERCENTAGE

Collected traffic counts include several locations that classified vehicles according to the number of axles. This is a measure of trucks as a percentage of all vehicles traveling on the roadway. Trucks are defined as vehicles with more than two axles, such as typical tractor/trailer rigs, traveling on the roadway during the peak period.

**Map 11, Page 29:** Overall, I-5, I-205, SR-501 (Pioneer St.), SR-502, and Fourth Plain/Mill Plain west of I-5 display the

highest percentage of truck volumes during the PM peak period with truck percentages greater than 5 percent. I-5 North has a truck percentage above 10%.

## 8. TRANSIT SEAT CAPACITY USED

Transit capacity used includes transit riders divided by the transit capacity at a defined location. Transit seat capacity is based on 2005 bus service and represents the percentage of seats that are occupied during the two-hour peak period. C-TRAN collected ridership at specific locations along the congestion management corridors. RTC compiled this data and calculated bus capacity, based on the vehicle type and frequency of service. This process has allowed for the estimation of transit patronage and capacity for congestion management corridors.

**Map 12, Page 30:** During the AM period, portions of I-5, I-205, Andresen Road, 162<sup>nd</sup> Avenue, Mill Plain, Fourth Plain, and Burton corridors utilize more than 40% of the available seats.

**Map 13, Page 31:** In the PM period, I-5, I-205, Highway 99, Main Street, Andresen Road, Mill Plain, and Fourth Plain utilize more than 40% of the available seat capacity.

## 9. TRANSIT SEATS AS PERCENTAGE OF LANE CAPACITY

This measure is intended as a planning analysis tool. It utilizes the transit seat capacity data to calculate transit seat capacity as a percentage of vehicle capacity per lane on the congestion management corridors. It provides a picture of how much transit service is in a corridor in relation to the road capacity and presents an idea of the potential of transit to mitigate or manage auto demand on the congestion management corridors.

**Map 14, Page 32:** The PM map shows that the I-5 corridor has the highest percentage of transit seats due to the high level of vehicles accessing both I-5 and Main Street (30%). In contrast, SR-14 between I-5 and I-205 has only one bus during the two-hour peak period (1.7%).

**B. OTHER TRANSPORTATION MEASURES**

**1. HIGHEST VOLUME INTERSECTIONS**

**Table 3** displays the highest volume intersections in 2005. It is based on the total number of vehicles entering an intersection on an average weekday. At-grade intersections along SR-500, Mill Plain, SR-503, and Padden Parkway dominate the list.

**Table 3 - Highest Volume Intersections**

Rank	East/West	North/South	Volume
1	Mill Plain	Chkalov Dr.	78,000
2	SR-500	SR-503	75,000
3	SR-500	St. Johns Rd.	67,000
4	SR-500	54 <sup>th</sup> Ave.	59,000
5	Mill Plain	136 <sup>th</sup> Ave.	58,000
6	SR-500	42 <sup>nd</sup> Ave.	58,000
7	SE 34 <sup>th</sup> St.	SE 164 <sup>th</sup> Ave.	58,000
8	Fourth Plain	Andresen Rd.	55,000
9	Padden Pkw.	SR-503	54,000
10	Padden Pkw.	Andresen Rd.	49,000
11	78 <sup>th</sup> St.	Highway 99	48,000
12	76 <sup>th</sup> St.	SR-503	47,000
13	Mill Plain	104 <sup>th</sup> /105 <sup>th</sup> Ave.	45,000
14	Padden Pkw.	94 <sup>th</sup> Ave.	45,000
15	134 <sup>th</sup> St.	Highway 99	44,000

The at-grade intersections along SR-500 make up some of the highest volume intersections with four of the top six intersections.

**2. COLUMBIA RIVER BRIDGE VEHICLE VOLUMES**

A good indicator of change to bi-state travel is the amount of vehicle travel across the Columbia River bridges. **Table 4** shows the historical growth in Columbia River bridge crossings since 1980.

**Table 4 - Average Weekday Traffic Across the Columbia River**

Year	I-5	I-205	Total
1980	108,600	N/A	108,600
1985	91,400	52,600	144,000
1990	95,400	87,100	182,500
1995	116,600	106,100	222,700
2000	126,900	132,100	259,000
2005	132,600	145,900	278,500

In 1980, the only highway across the Columbia River was the Interstate Bridge that carried 108,600 vehicles a day. By 1985, with the opening of the Glenn Jackson Bridge in 1983, Interstate Bridge volumes decreased to 91,400 vehicles a day. However, the new Glenn Jackson Bridge carried 52,600 day for a combined river crossing of 144,000 vehicles a day. By 1995, total river crossings (222,700) had more than doubled compared to 1980 (108,600). While traffic on both bridges has continued to grow since 1990, the Interstate Bridge is at or near capacity about six hours a day. As a result, in 1999 the Glenn Jackson Bridge traffic volumes exceeded the Interstate Bridge traffic volumes on a daily basis. This trend continues today. In 2005, total river crossings exceed 275,000 vehicles a day. The all-time maximum weekday volume on the two Columbia River Bridges exceeded 325,000 vehicles on Friday, July 2, 2004.

Future growth is expected to continue on both bridges. However, growth on the Glenn Jackson Bridge will grow at a faster rate than that of the Interstate Bridge.

### 3. TRANSIT SYSTEM RIDERSHIP

**Table 5** provides information on 2005 annual C-TRAN patronage by type of service.

Almost 96% of C-TRAN system ridership was made up of fixed route service. Urban fixed route service carries 81% of C-TRAN's total annual ridership. Followed by commuter service that carries 15% of the total riders, and C-VAN that carries 3% of the total riders.

**Table 5 - 2004 Ridership by Type of Service**

Type of Service	Annual Riders	Percent of Total
Urban/Local	4,731,590	81.4%
Commuter	877,924	15.1%
C-VAN	179,774	3.1%
Connector	16,704	0.3%
Events/Other	5,437	0.1%
Vanpool	988	0.0%
<b>Total</b>	<b>5,812,417</b>	<b>100.0%</b>

**Table 6** compares growth in Clark County population with changes to C-TRAN system ridership during the same period. The average annual growth rate in Clark County population since 1985 has ranged from 2.8% to 4.5% per year depending on the time period. Over the same time periods, C-TRAN ridership growth rate has been higher than the population growth rate until 2005.

In 2005, C-TRAN restructured transit fares to increase the proportion that fare revenue contributes to service costs. One expected result was a decrease in ridership, particularly on the premium commuter service that had the sharpest fare increases. Ridership was also impacted by service reductions and service uncertainty. In September 2005 voters overwhelmingly supported a 0.2% sales tax increase to support preservation of C-TRAN service levels and restore

service that had been cut following passage of initiative 695 in 2000.

**Table 6 – Historical Population and Patronage Growth**

Year	Population	Annual Growth Rate	System Passenger Trips	Annual Growth Rate
1985	206,744		1,765,423	
1990	238,053	3.0%	2,840,724	12.2%
1995	291,000	4.4%	4,327,291	10.5%
2000	345,238	3.7%	5,437,084	5.1%
2005	391,500	2.7%	5,812,417	1.4%

### 4. PARK AND RIDE CAPACITY

C-TRAN's park and ride capacity has not changed significantly since 2000. Clark County park and ride capacity is shown in **Table 7**.

**Table 7 - Clark County Park and Ride Capacity**

Facility	Lot Capacity
Battle Ground	28
Evergreen	271
Salmon Creek	495
BPA Ross	200
Andresen Kmart	30
Fisher's Landing	563
Camas/Washougal	20
7 <sup>th</sup> Street	0
<b>Total</b>	<b>1,607</b>

Park and ride capacity includes lots owned or leased by C-TRAN. Although the 7<sup>th</sup> Street transit center does not provide parking spaces, parking is available in a nearby paid parking garage. Vancouver Mall Transit Center does not provide park and ride capacity. In addition to the capacity shown in Table 7, there are informal park and ride and park and pool facilities located throughout the County.

C-TRAN is scheduled to begin construction of the 99<sup>th</sup> Street Transit Center in 2006 with 610 park and ride spaces. C-TRAN will be developing a new transit center (no park and ride capacity) located next to its Administration, Operations and Maintenance facility located at 2425 NE 65th Avenue. Also in 2006, C-TRAN will conduct a service design analysis to consider future transit centers.

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## C. 2000-2005 TRENDS

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### 1. VEHICLE VOLUMES

In the five-year period, several corridors have shown a significant increase in peak hour vehicle volumes. Corridors that had a vehicle volume increase of over 400 vehicles in the PM peak hour include: I-5 Central, I-205 Central, SR-14 east of I-205, and Padden Parkway.

In addition, Main Street, I-205 Central, SR-500 Central, and Padden Parkway had a vehicle volume increase of over 400 vehicles in the AM peak. While I-5 South had a reduction in AM peak volume of over 400 vehicles due to congestion.

The last couple of years the region experienced substantial increase in the overall traffic volumes. This overall increase in traffic volumes is likely due to growth in the regional economy and population.

### 2. CORRIDOR CAPACITY

Through the four-year period, both the AM and PM peak periods had increased congestion along congestion management corridors. However, congestion decreased along corridors where capacity has been added to the system. The change in corridor capacity (volume to capacity ratio) has been especially reflective of road improvements. In the past few years,

capacity has been added with transportation improvements along many of the congestion management corridors. Some of the major improvements include:

- Fourth Plain in Orchards
- I-5, Main to 99<sup>th</sup> St.
- SR-500, Ward to 162<sup>nd</sup> Av.
- 134<sup>th</sup> St., Rockwell to WSU
- 162<sup>nd</sup> Av., 39<sup>th</sup> St. to Ward Rd.
- SR-500/112<sup>th</sup> Av. Interchange
- Padden Parkway

### 3. SPEED

In general, a trend between 2000 and 2005 congestion monitoring reports includes decreased speeds along congestion management corridors. Corridors that had a significant decrease in pm peak period speed include: Main Street, I-205 From Oregon to SR-500, 112<sup>th</sup> Avenue, SR-14 from I-5 to 164<sup>th</sup> Av., Fourth Plain west of I-5, Burton Road (Construction), and 18<sup>th</sup> Street. Significant increase in peak period speed occurred in corridors that had construction in year 2000. Including SR-500, La Center Road, and I-5 Central.

### 4. INTERSECTION DELAY

In the last couple years, the intersection delay for through movements has increased. Intersections with an average delay of 30 seconds or greater has increased from 26 intersections to 54 intersections. Moreover, 9 of these intersections experienced an average delay of 60 seconds or more for the through movement.

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## D. AREAS OF CONCERN

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Using the individual CMS corridor segment data, areas of concerns were identified. Areas of concern are defined as segments within an individual corridor that has volume to capacity (V/C) ratio greater than 0.9 or a travel speed 60% or less of the posted speed limit.

This section does not attempt to develop solutions to these areas of concern, but takes these segments and cross-references to the transportation solutions identified in a Transportation Improvement Program (TIP), Metropolitan Transportation Plan (MTP), or other plans. These areas of concerns warrant further analysis and monitoring.

### 1. VOLUME TO CAPACITY RATIO

The volume to capacity ratio identifies road segments where current volumes are approaching road capacity. This limitation on road capacity leads to congestion. **Table 8 (Page 15)**, cross-references AM and PM volume to capacity areas of concern to transportation solutions identified in current transportation plans.

**Map 15, Page 33:** Most of the AM period volume to capacity ratio areas of concern are related to bottlenecks at the two interstate bridges. The AM period shows congestion on portions of I-5, I-205, SR-14, SR-502, Burton Road, 138<sup>th</sup> Avenue, and 164<sup>th</sup> Avenue.

**Map 16, Page 34:** In the PM period, additional volume to capacity ratio areas

of concern occurred. The PM period shows congestion on portions of I-5, I-205, SR-14, SR-500, SR-502, SR-503, Fourth Plain, Hazel Dell Avenue, Andresen/72<sup>nd</sup> Avenue, 112<sup>th</sup> Avenue, 138<sup>th</sup> Avenue, 164 Avenue, 18<sup>th</sup> Street, and Burton Road.

### 2. SPEED

A travel speed lower than 60% of the posted speed limit is an indicator of delay, which can result in congestion. **Table 9 (Pages 16-17)**, cross-references AM and PM speed areas of concern to transportation solutions identified in current transportation plans.

Often these speed areas of concern correlate with locations within close proximity of multiple traffic signals or an intersection that displayed delay greater than 30 seconds.

**Map 17, Page 35:** In the AM period, speed areas of concern occur along portions of I-5, SR-500, SR-502, SR-503, Highway 99, St. Johns, Andresen, 137<sup>th</sup> Avenue, 162<sup>nd</sup> Avenue, Mill Plain, 18<sup>th</sup> Street, 78<sup>th</sup> Street, Padden Parkway, and 134<sup>th</sup> Street.

**Map 18, Page 36:** In the PM period, speed areas of concern occur along portions of I-205, SR-14, SR-500, SR-503, Main St., Hazel Dell Avenue, Highway 99, St. Johns Road, Andresen/72<sup>nd</sup> Avenue, 112<sup>th</sup> Avenue, 137<sup>th</sup> Avenue, 164<sup>th</sup> Avenue, Mill Plain, Fourth Plain, 18<sup>th</sup> Street, Burton Road, 78<sup>th</sup> Street, 99<sup>th</sup> Street, Padden Parkway, and 134<sup>th</sup> Street.

**Table 8**  
**Areas of Concern: Volume to Capacity Ratio > 0.9**

AM Volume to Capacity Ratio Index Greater Than 0.9					
Jurisdiction	Peak Hour Volume	Corridor	Segment	Identified Improvement	Estimated Completion
Vancouver	2,325	164th Avenue	SR-14 - SE 34th Street	TIP: Construct 192nd Avenue	2006
Vancouver	742	28th Street	86th Av. - 137th Av.	TIP: Widen to 3 lanes	2006
Vancouver	847	138th Avenue	NE 18th St. to NE 28th St.	TIP: Widen to 5 lanes	2007
WSDOT	757	SR-502	179th St. - 199th St.	TIP: 219th Street Interchange	2007
<b>WSDOT</b>	<b>1,105</b>	<b>SR-14</b>	<b>NW 6th Av. - Union Rd.</b>	<b>TIP/MTP: Widen to 4 lanes</b>	<b>2011</b>
WSDOT	7,500	I-205	Airport Way - SR-500	TIP: Mill Plain-28th St./MTP: Collector/Distributor Syst	2013/10+ Years
Vancouver	770	St. Johns	Ft. Vancouver to SR-500	Intersection/Access Management	5-10 Years
WSDOT	3,488	I-205	SR-500 - 83rd Street	MTP: Widen to 6 lanes	10-20 Years
WSDOT	3,710	SR-14	I-205 - 164th Avenue	MTP: Widen to 6 lanes	10-20 Years
WSDOT	5,568	I-5	Jantzen Beach - SR-500	Strategic MTP: Columbia River Crossing	20+ Years

PM Volume to Capacity Ratio Greater Than 0.9					
Jurisdiction	Peak Hour Volume	Corridor	Segment	Identified Improvement	Estimated Completion
Vancouver	2,248	164th Avenue	SR-14 - SE 34th Street	TIP: Construct 192nd Avenue	2006
Vancouver	944	28th Street	86th Av. - 137th Av.	TIP: Widen to 3 lanes	2006
Vancouver	1,528	112th Avenue	49th Street - SR-500	TIP: NE 49th St. Intersection Improvements	2007
Vancouver	760	138th Avenue	18th Street - 28th Street	TIP: Widen to 5 lanes	2007
Clark County	853	72nd Avenue	St. Johns to NE 88th St.	TIP: Widen to 5 lanes	2007
WSDOT	958	SR-502	179th St. - 219th St.	TIP: 219th Street Interchange	2007
Vancouver	772	18th Street	137th Av. - 162nd Av.	MTP: 18th Street Corridor	5-10 Years
WSDOT	1,269	SR-14	6th Avenue - 32nd Street	MTP: Widen to 4 lanes with Interchanges	2010/10+
Clark County	751	Hazel Dell Ave.	63rd Street - 78th Street	Stripe for center turn lane	1-5 Years
WSDOT	2,149	SR-500	54th Avenue - Andresen Rd.	MTP: Interchanges and Auxiliary Lanes	2012/10+ Years
WSDOT	7,377	I-205	Airport Way - SR-500	TIP: Mill Plain-28th St./MTP: Collector/Distributor Syst	2013/10+ Years
WSDOT	3,647	I-205	SR-500 - 83rd Street	MTP: Widen to 6 lanes	10-20 Years
WSDOT	3,760	SR-14	I-205 - 164th Avenue	MTP: Widen to 6 lanes	10-20 Years
WSDOT	1,784	SR-503	Fourth Plain - 99th St.	MTP: Intersection Improvements and Access Control	10-20 Years
Vancouver	2,067	Fourth Plain	SR-503 - 137th Av.	Stategic MTP: SR-503/Fourth Plain Under Study	20+ Years
WSDOT	5,456	I-5	Jantzen Beach - Main Street	Strategic MTP: Columbia River Crossing	20+ Years
Vancouver	1,652	Andresen Rd.	Fourth Plain - SR-500	None	

**Table 9**  
**Areas of Concern: Speed < 60% of Posted Speed**

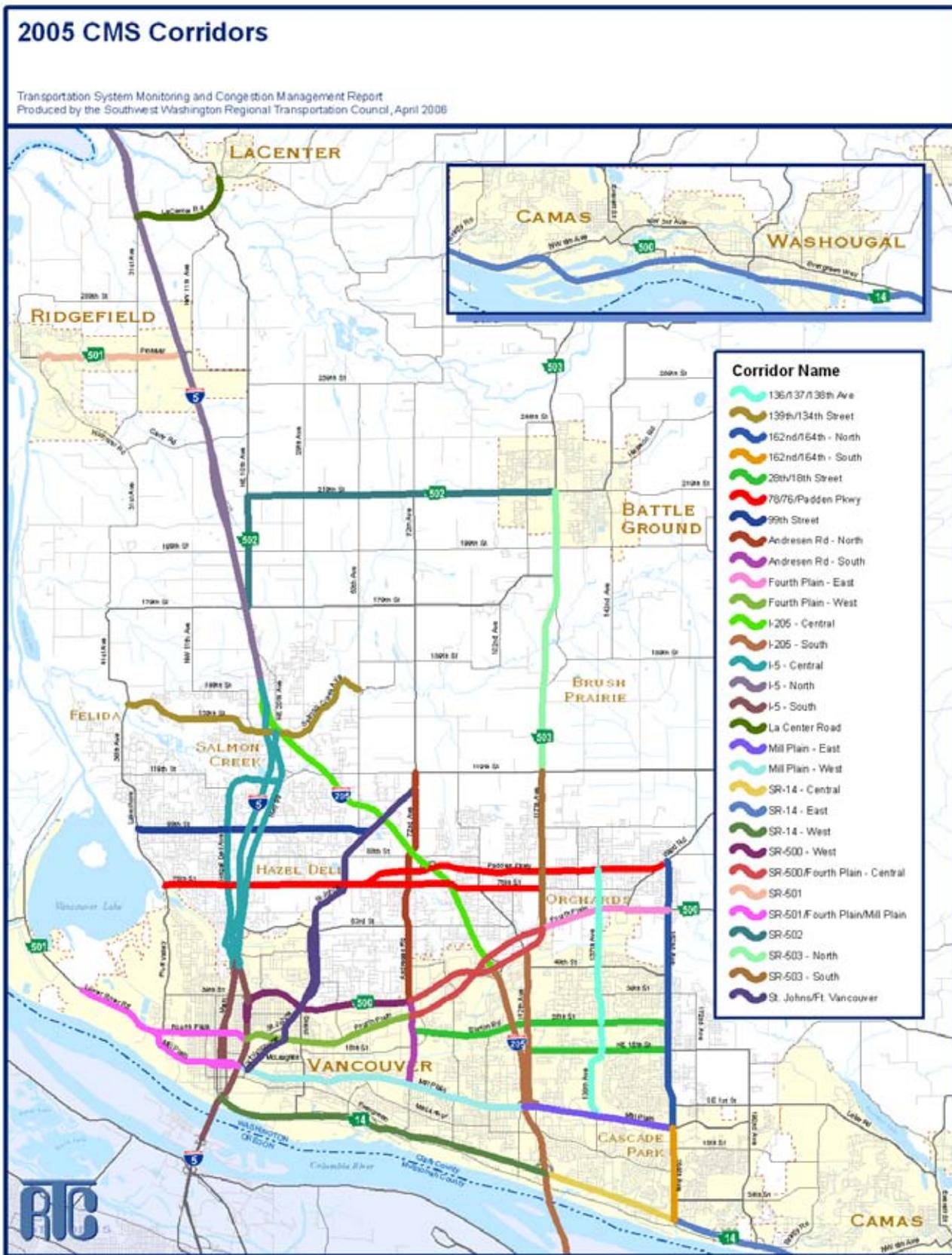
<b>AM Speed 60% or Less of Posted Speed Limit</b>					
<b>Jurisdiction</b>	<b>Peak Hour Volume</b>	<b>Corridor</b>	<b>Segment</b>	<b>Identified Improvement</b>	<b>Estimated Completion</b>
WSDOT	757	SR-502	179th St. - 199th St.	TIP: 219th Street Interchange	2007
Clark County	541	137th Avenue	Fourth Plain to Padden	Traffic Signal Coordination and Timing	2007
Vancouver	970	Mill Plain Blvd.	104th Ave. to I-205	Traffic Signal Coordination and Timing	1-3 Years
Clark County	572	Andresen Rd.	Padden Pkwy. to 78th St.	Replace Signal Controller/MTP: Grade Separate	2008/10-20 yrs.
Clark County	1,289	Padden Parkway	Andresen Rd. - I-205	Replace Signal Controller/MTP: Grade Separate	2008/10-20 yrs.
Vancouver	2,329	Mill Plain Blvd.	Chkalov - 164th Avenue	TIP: Multiple Strategies-Interchanges/signal timing	2008-2012
Vancouver	1,103	St. Johns	SR-500 - NE 44th St.	MTP: SR-500/St. Johns Interchange	2010
<b>WSDOT</b>	<b>1,763</b>	<b>SR-500</b>	<b>St. Johns to Falk</b>	<b>TIP: SR-500/St. Johns Interchange</b>	<b>2010</b>
Clark County	900	134th Street	I-5 to I-205	MTP: I-5/Salmon Creek Interchange	2011
<b>Vancouver</b>	<b>1,012</b>	<b>162nd Avenue</b>	<b>NE 18th St. to NE 39th St.</b>	<b>Traffic Signal Coordination and Timing</b>	<b>3-5 Years</b>
<b>Clark County</b>	<b>495</b>	<b>Highway 99</b>	<b>NE 78th St. to NE 63rd St.</b>	<b>Rebuild Intersection</b>	<b>5-10 Years</b>
Vancouver	568	18th Street	112th Av. - 162nd Av.	TIP: 18th St. Corridor Improvements	5-10 Years
Vancouver	877	Mill Plain Blvd.	Lieser - 98th Avenue	MTP: Signal Coordination/Realignment of 86th/Lieser	10-20 Years
<b>WSDOT</b>	<b>1,968</b>	<b>SR-500</b>	<b>Stapleton to Andresen</b>	<b>MTP: SR-500/42nd &amp; 54th Grade Separation</b>	<b>10-20 Years</b>
WSDOT	1,482	SR-503	76th Street - Fourth Plain	MTP: Intersection Improvements and Access Control	10-20 Years
<b>WSDOT</b>	<b>1,478</b>	<b>SR-503</b>	<b>Padden Pkwy. to 99th St.</b>	<b>MTP: Intersection Improvements and Access Control</b>	<b>10-20 Years</b>
Clark County	811	Padden Parkway	SR-503 - 137th Av.	MTP: Padden/SR-503 Grade Separation	10-20 Years
<b>Vancouver</b>	<b>2,325</b>	<b>162nd Avenue</b>	<b>SE 34th St. to SR-14</b>	<b>MTP: SR-14 Widening</b>	<b>10-20 Years</b>
Clark County	1,450	Fourth Plain	Gher Rd. - SR-503	Strategic MTP: Fourth Plain/SR-503 Intersection	20+ Years
WSDOT	5,568	I-5	NE 78th St. to Jantzen Beach	Strategic MTP: Columbia River Crossing	20+ Years
<b>Vancouver</b>	<b>720</b>	<b>Mill Plain Blvd.</b>	<b>I-5 to Reserve St.</b>	<b>Strategic MTP: Columbia River Crossing</b>	<b>20+ Years</b>
<b>Clark County</b>	<b>1,094</b>	<b>78th Street</b>	<b>Hazel Dell - Hwy. 99</b>	<b>None (Close Proximity of Signals)</b>	

**Table 9 Continued**  
**Areas of Concern: Speed < 60% of Posted Speed**

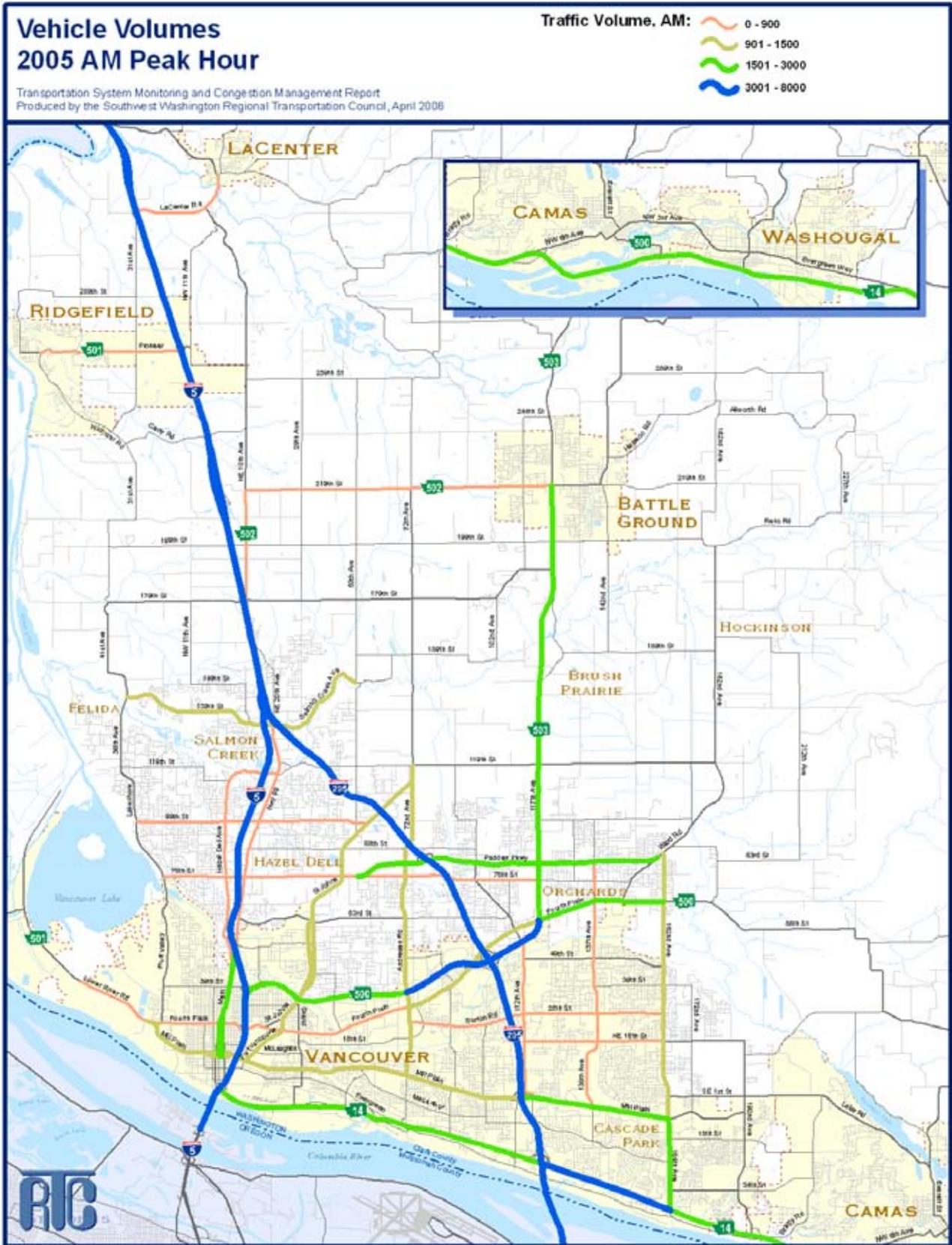
<b>PM Speed 60% or Less of Posted Speed Limit</b>					
<b>Jurisdiction</b>	<b>Peak Hour Volume</b>	<b>Corridor</b>	<b>Segment</b>	<b>Identified Improvement</b>	<b>Estimated Completion</b>
Vancouver	2,248	164th Avenue	SR-14 - SE 34th Street	TIP: Construct 192nd Avenue/Signal Coordination	2006
Vancouver	975	112th Avenue	18th Street - 28th Street	TIP: Signal Coordination/Intersection Imp.	2006
Vancouver	944	Burton Road	86th Av. - 164th Av.	TIP: Road Improvements/Signal Coordination	2006
Vancouver	545	Fourth Plain	Main St. - Kaufman	Traffic Signal Coordination and Timing	2006
Vancouver	1,181	Fourth Plain	Falk Rd. - Andresen	Traffic Signal Coordination and Timing	2006
Vancouver	1,528	112th Avenue	49th Street - SR-500	TIP: 49th St. Intersection Improvement	2007
Vancouver	760	138th Avenue	18th Street - 28th Street	TIP: Widen to 5 lanes/Signal Coordination	2007
<b>Clark County</b>	<b>569</b>	<b>Hazel Dell Ave.</b>	<b>NE 99th St. to Hwy 99</b>	<b>Finish Construction</b>	<b>2006</b>
Clark County	1,335	Andresen Road	78th Street to NE 88th St.	Replace Signal Controller/72nd Improvement	2008/2007
Clark County	1,626	Padden Parkway	78th Street to Andresen Road	Replace Signal Controller/MTP: Grade Separate	2008/10-20 Yrs.
Vancouver	2,637	Mill Plain Blvd.	Lieser - 162nd Av.	TIP: Multiple Strategies-Interchanges/signal timing	2008-2012
Vancouver	650	137th Avenue	28th Street to Padden Pkwy.	MTP: Widening 137th Av. and Traffic Signal Timing	2008/10-20 Yrs.
<b>Vancouver</b>	<b>1,391</b>	<b>Fourth Plain</b>	<b>137th Av. - 162nd Av.</b>	<b>Traffic Signal Coordination and Timing</b>	<b>2009</b>
Clark County	1,396	134th Street	NE 10th Ave. - I-205	TIP: I-5/Salmon Creek Interchange	2011
Clark County	978	Highway 99	117th Av. to 134th St.	TIP: I-5/Salmon Creek Interchange	2011
<b>Vancouver</b>	<b>635</b>	<b>NE 18th Street</b>	<b>112th Av. to 138th Av.</b>	<b>MTP: 18th Street Corridor Improvements</b>	<b>3-5 Years</b>
<b>Vancouver</b>	<b>1,228</b>	<b>164th Avenue</b>	<b>NE 18th St. to NE 28th St.</b>	<b>Traffic Signal Coordination and Timing</b>	<b>3-5 Years</b>
Vancouver	464	St. Johns	Ft. Vancouver - SR-500	MTP: SR-500/St. Johns Interchange	2013
<b>WSDOT</b>	<b>5,286</b>	<b>I-205</b>	<b>Mill Plain to SR-500</b>	<b>TIP: Mill Plain-28th St./MTP: Collector/Distributor S</b>	<b>2013/10+ Years</b>
<b>Clark County</b>	<b>1,078</b>	<b>Highway 99</b>	<b>Ross to NE 63rd St.</b>	<b>Intersection Improvement</b>	<b>5-10 Years</b>
<b>Clark County</b>	<b>1,473</b>	<b>NE 72nd Av.</b>	<b>St. Johns to NE 119th St.</b>	<b>Intersection Improvement</b>	<b>5-10 Years</b>
WSDOT	963	SR-503	199th Street - SR-502	Traffic Signal Coordination and Timing/Access Control	5-10 Years
<b>Clark County</b>	<b>866</b>	<b>St. Johns</b>	<b>NE 63rd St. to NE 88th St.</b>	<b>Intersection Improvement</b>	<b>10-20 Years</b>
<b>Clark County</b>	<b>994</b>	<b>78th Street</b>	<b>NE 25th Av. to St. Johns</b>	<b>Intersection Improvement</b>	<b>10-20 Years</b>
<b>Clark County</b>	<b>460</b>	<b>76th Street</b>	<b>Covington to SR-503</b>	<b>Intersection Improvements</b>	<b>10-20 Years</b>
Clark County	1,450	Fourth Plain	Gher Rd. - SR-503	Strategic MTP: Fourth Plain/SR-503 Intersection	20+ Years
<b>WSDOT</b>	<b>2,445</b>	<b>SR-500</b>	<b>112th Av. to Fourth Plain</b>	<b>Strategic MTP: Under Study</b>	<b>20+ Years</b>
<b>WSDOT</b>	<b>3,056</b>	<b>SR-14</b>	<b>I-5 to Columbia Shores Blvd</b>	<b>Strategic MTP: Columbia River Crossing</b>	<b>20+ Years</b>
Vancouver	1,820	Mill Plain Blvd.	I-5 - Ft. Vancouver Way	Strategic MTP: Columbia River Crossing	20+ Years
WSDOT	1,844	SR-503	Fourth Plain. - Padden Pkwy.	Traffic Signal Coordination and Timing	Ongoing
Vancouver	1,652	Andresen Road	18th Street - Van Mall Dr.	Traffic Signal Coordination and Timing	Ongoing
Vancouver	361	Main Street	Mill Plain to Fourth Plain	Traffic Signal Coordination and Timing	Ongoing
<b>Clark County</b>	<b>2,056</b>	<b>Padden Parkway</b>	<b>I-205 to SR-503</b>	<b>Monitor</b>	
Clark County	1,094	78th Street	NW 9th Av. - Hwy. 99	None (Close Proximity of Signals)	
Clark County	1,244	99th Street	Hazel Dell - Hwy. 99	None (Close Proximity of Signals)	



### Map 1 – Congestion Management Network



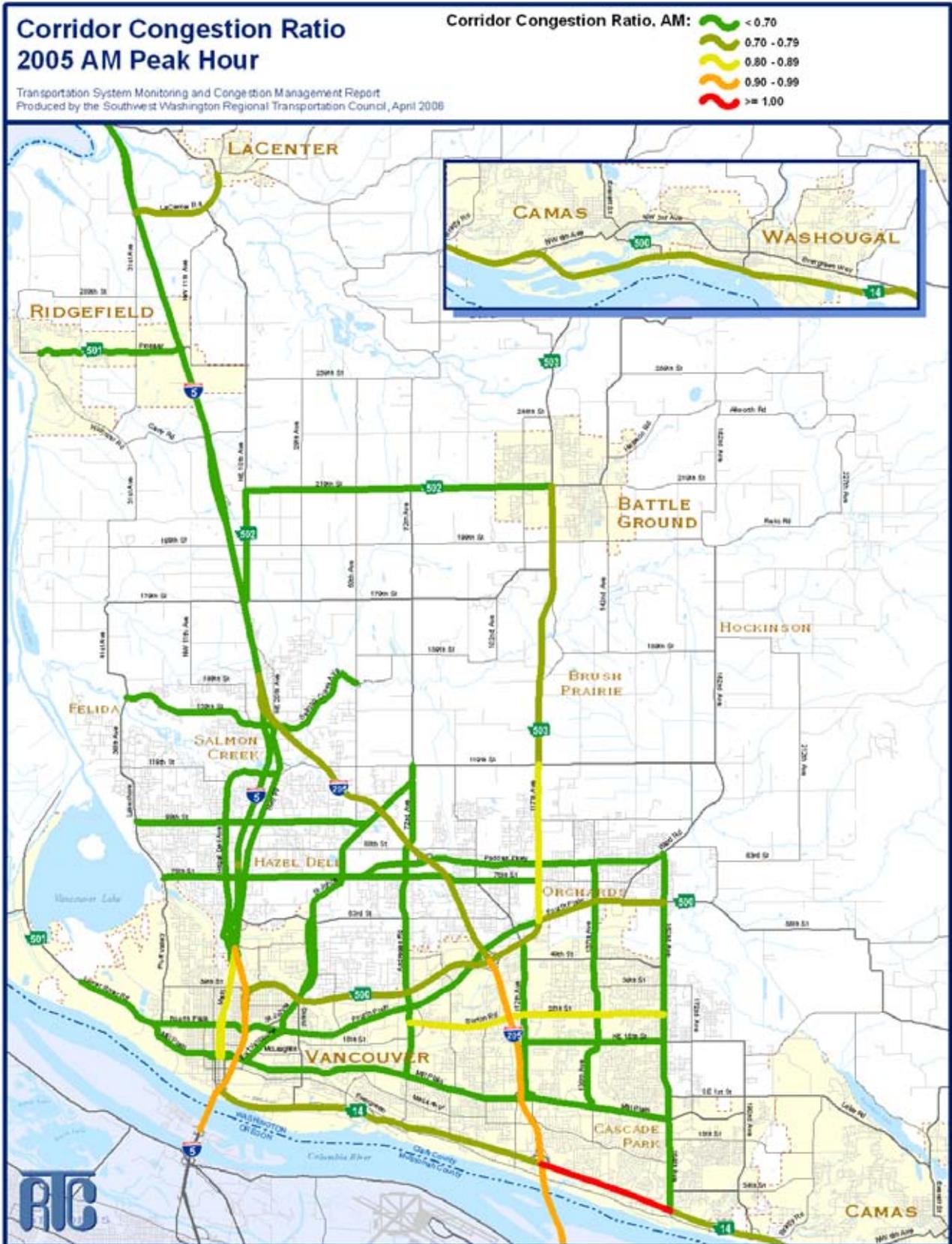
### Map 2 – AM Vehicle Volumes



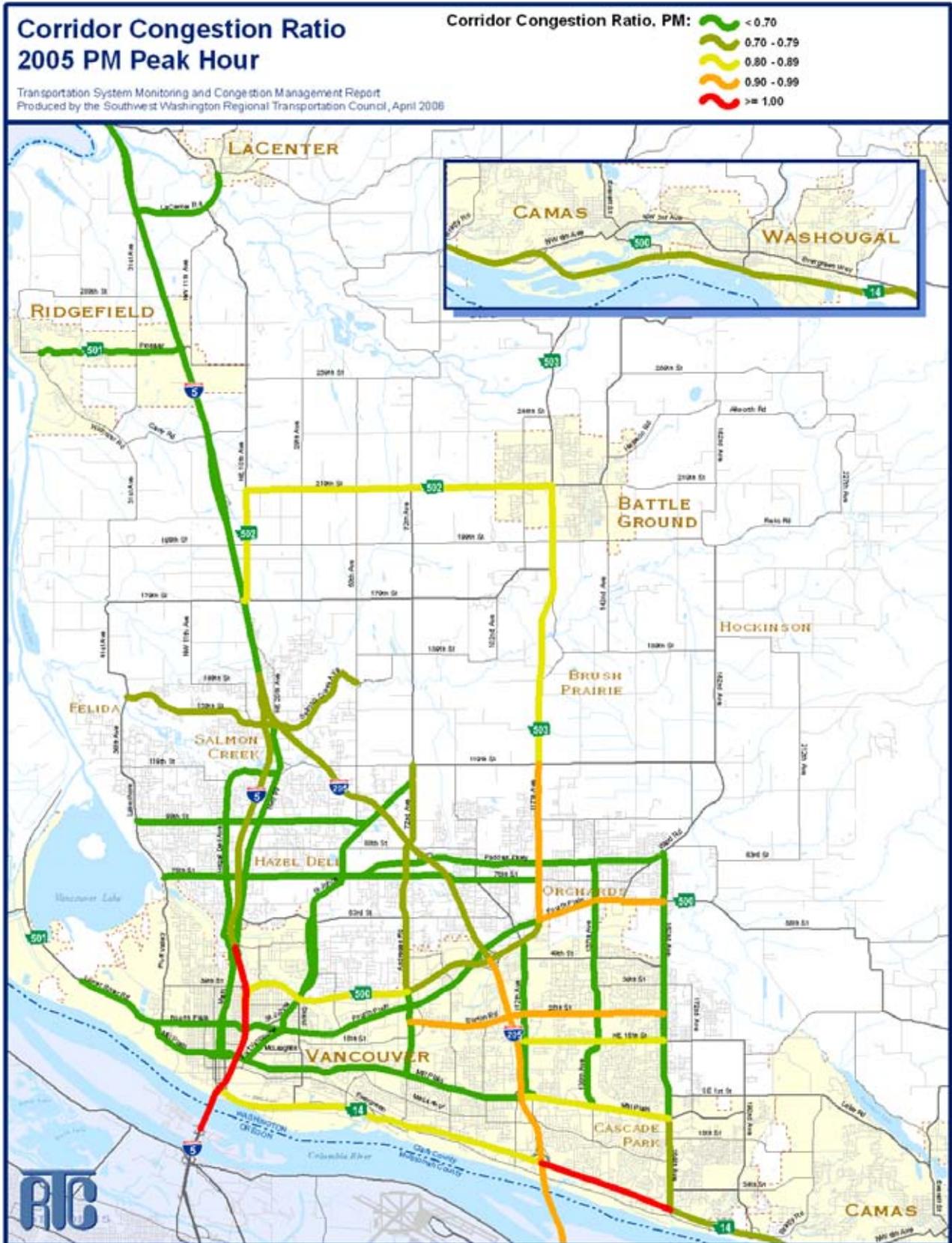
### Map 3 – PM Vehicle Volumes



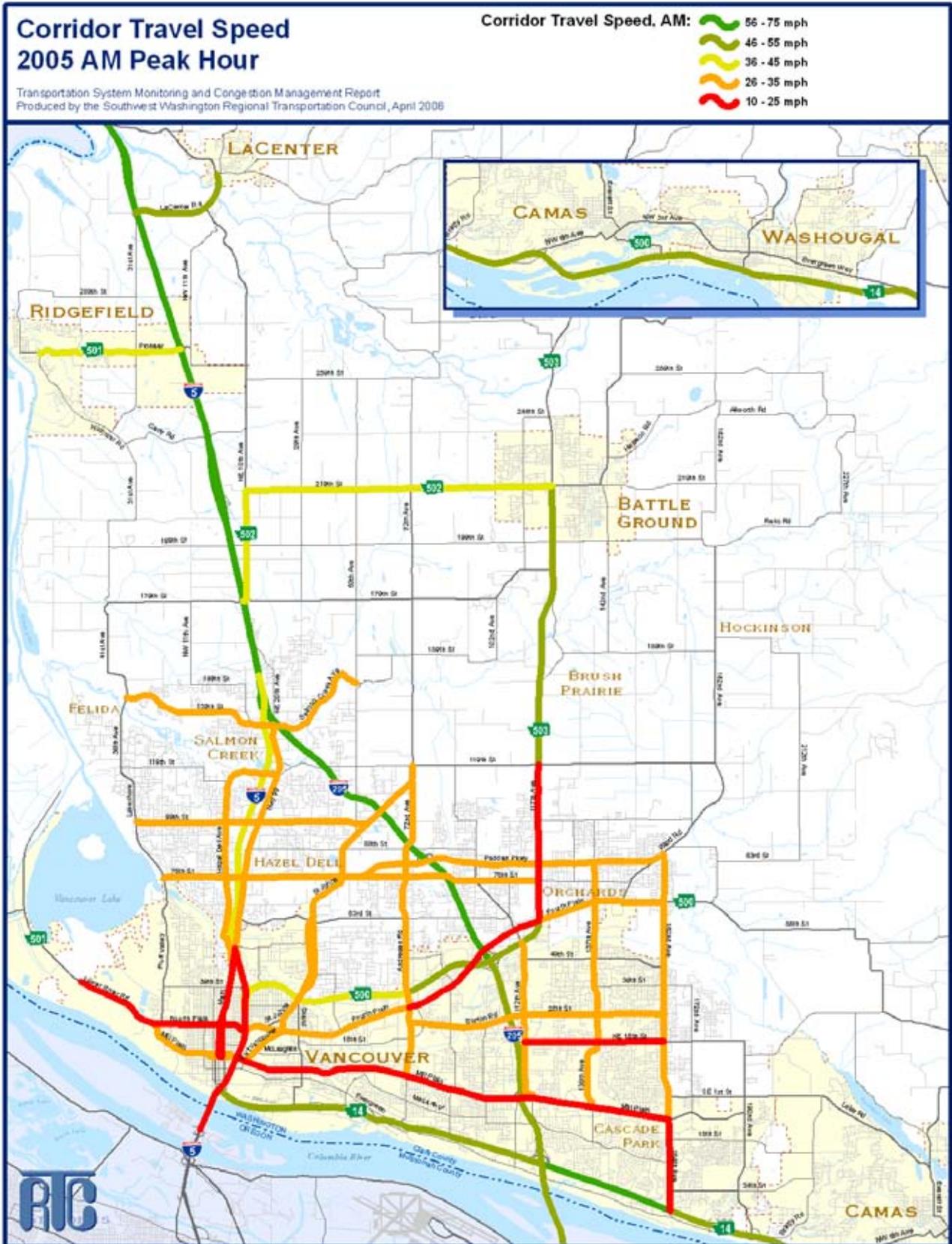
### Map 4 – AM Capacity Ratio



### Map 5 – PM Capacity Ratio

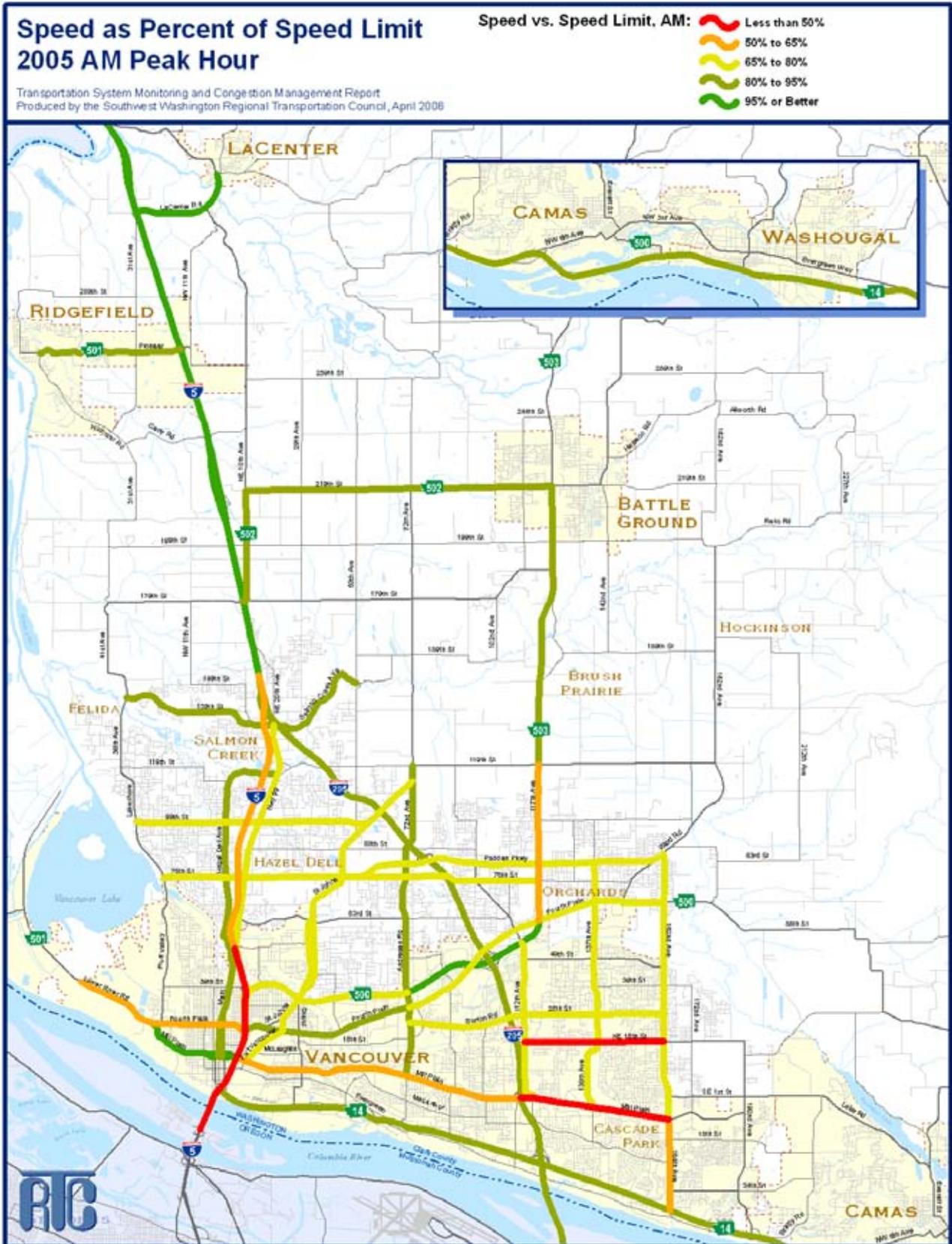


### Map 6 – AM Corridor Travel Speed

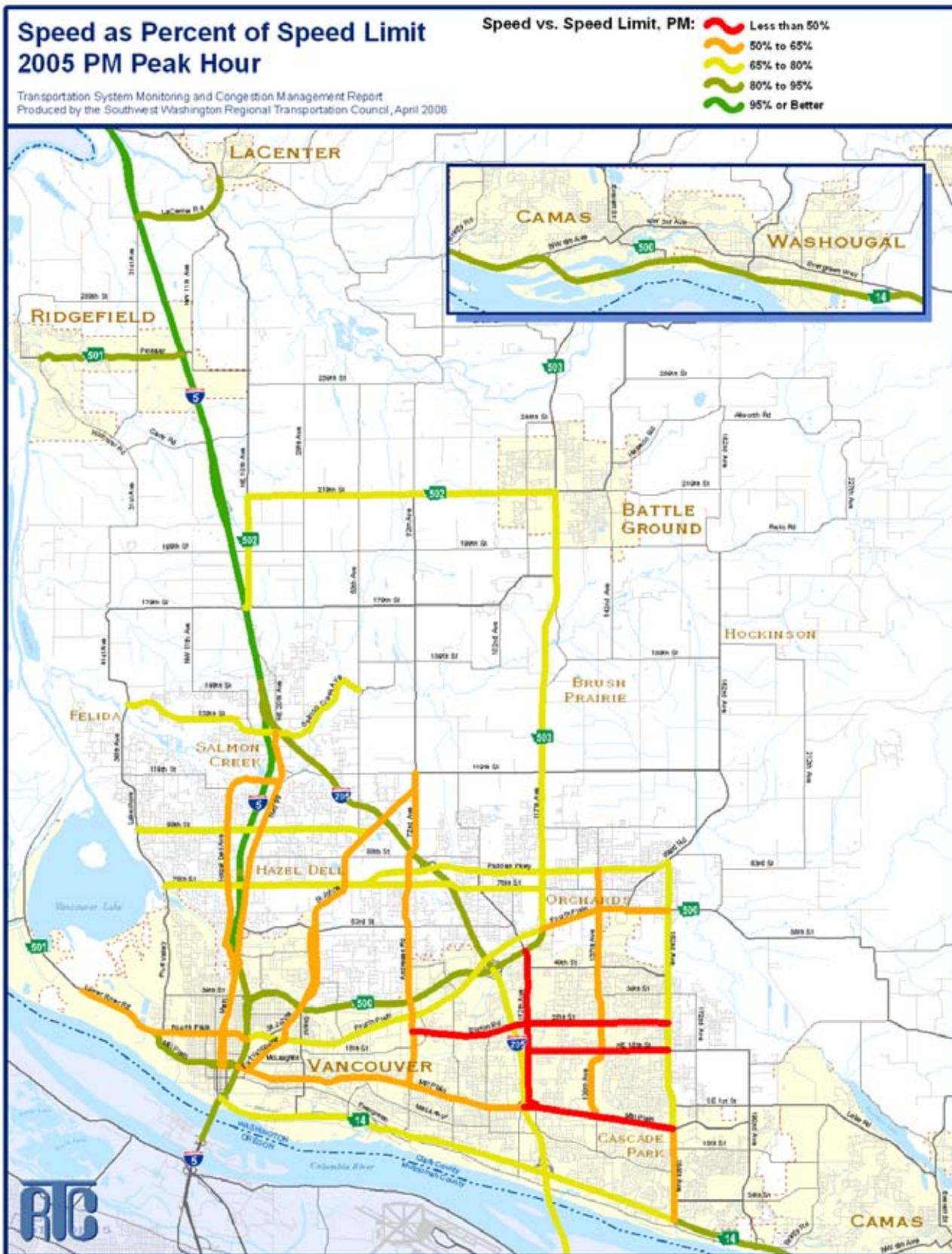




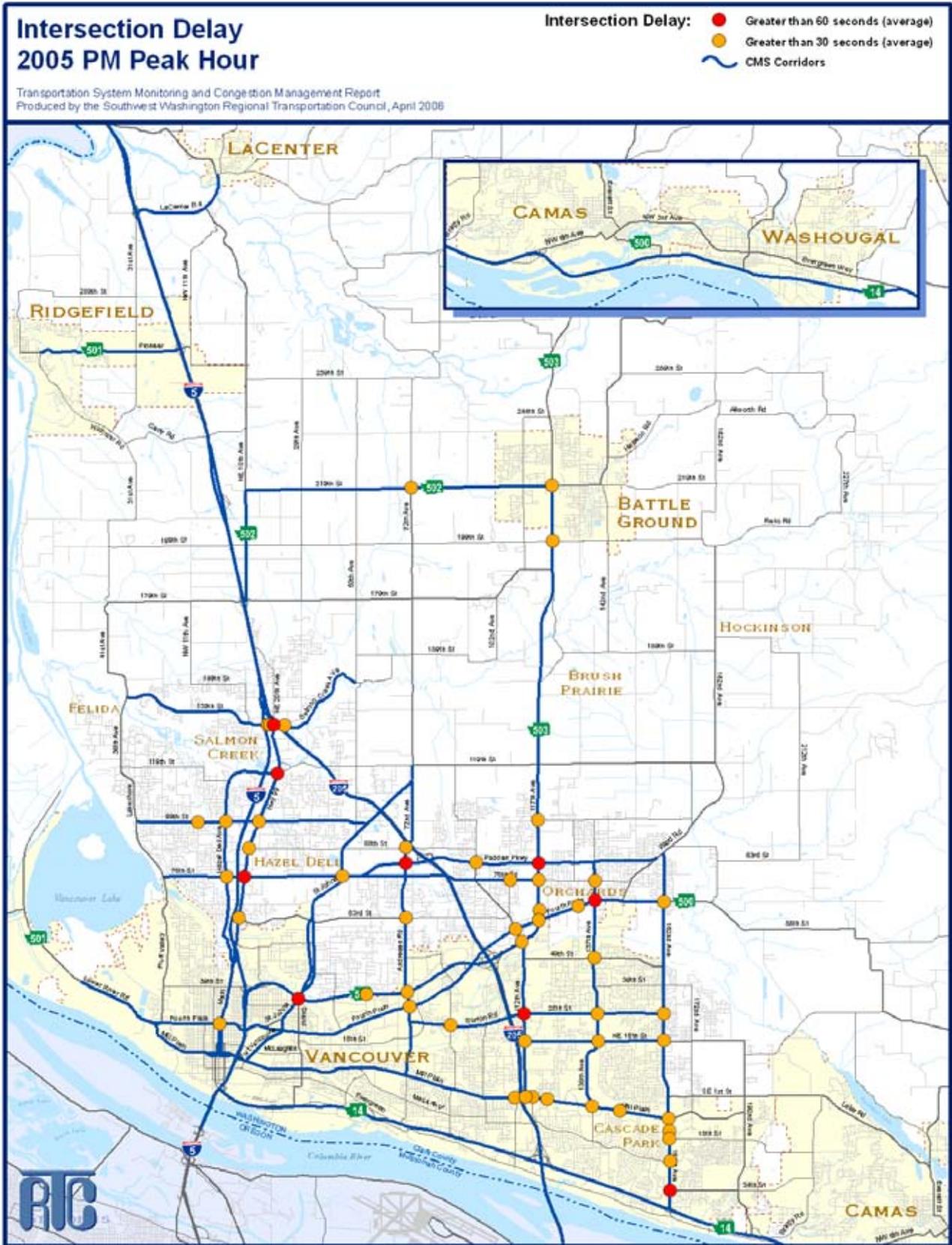
### Map 8 – AM Speed as Percent of Speed Limit



### Map 9 – PM Speed as Percent of Speed Limit



### Map 10 – PM Intersection Delay

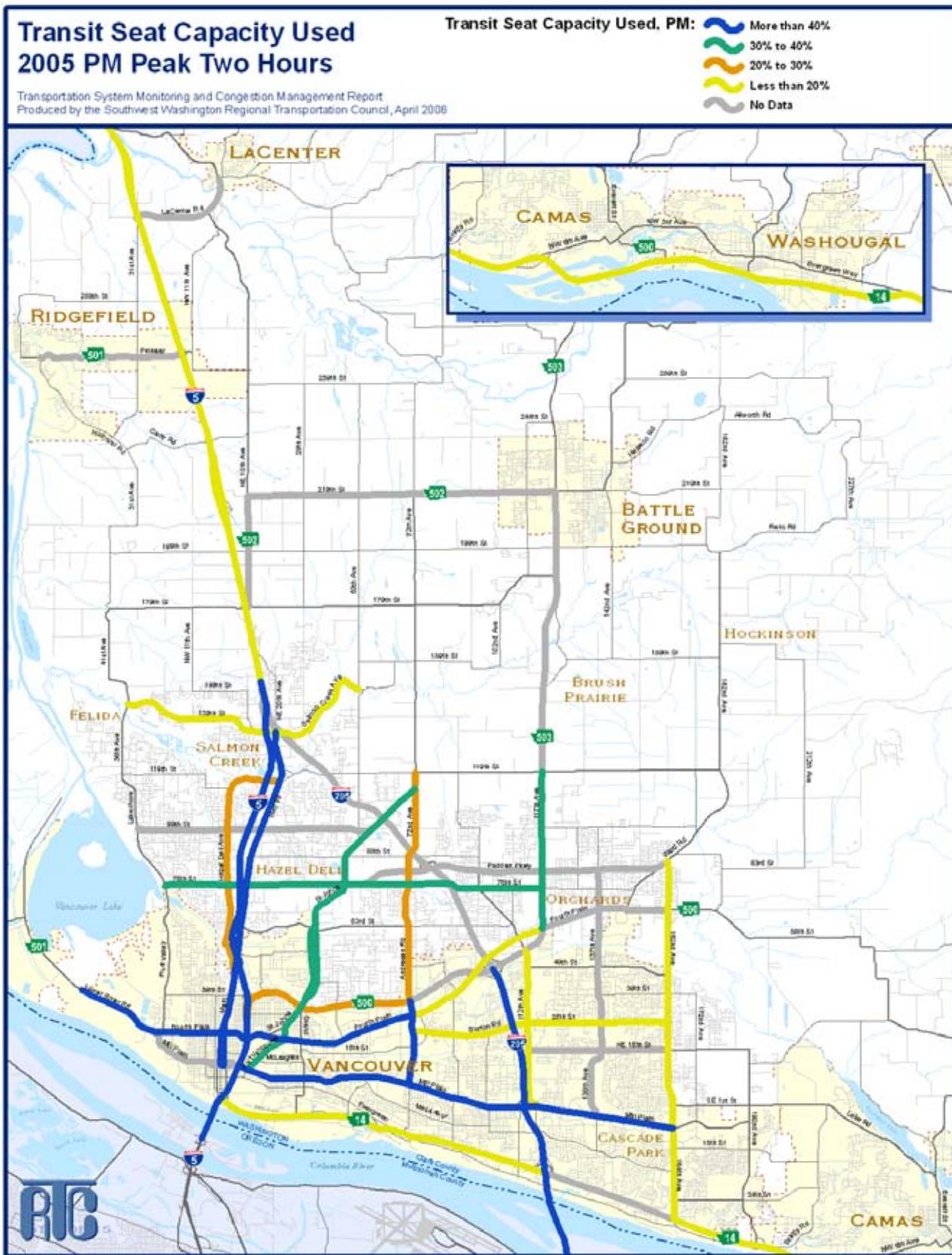




### Map 12 – AM Transit Seat Capacity Used



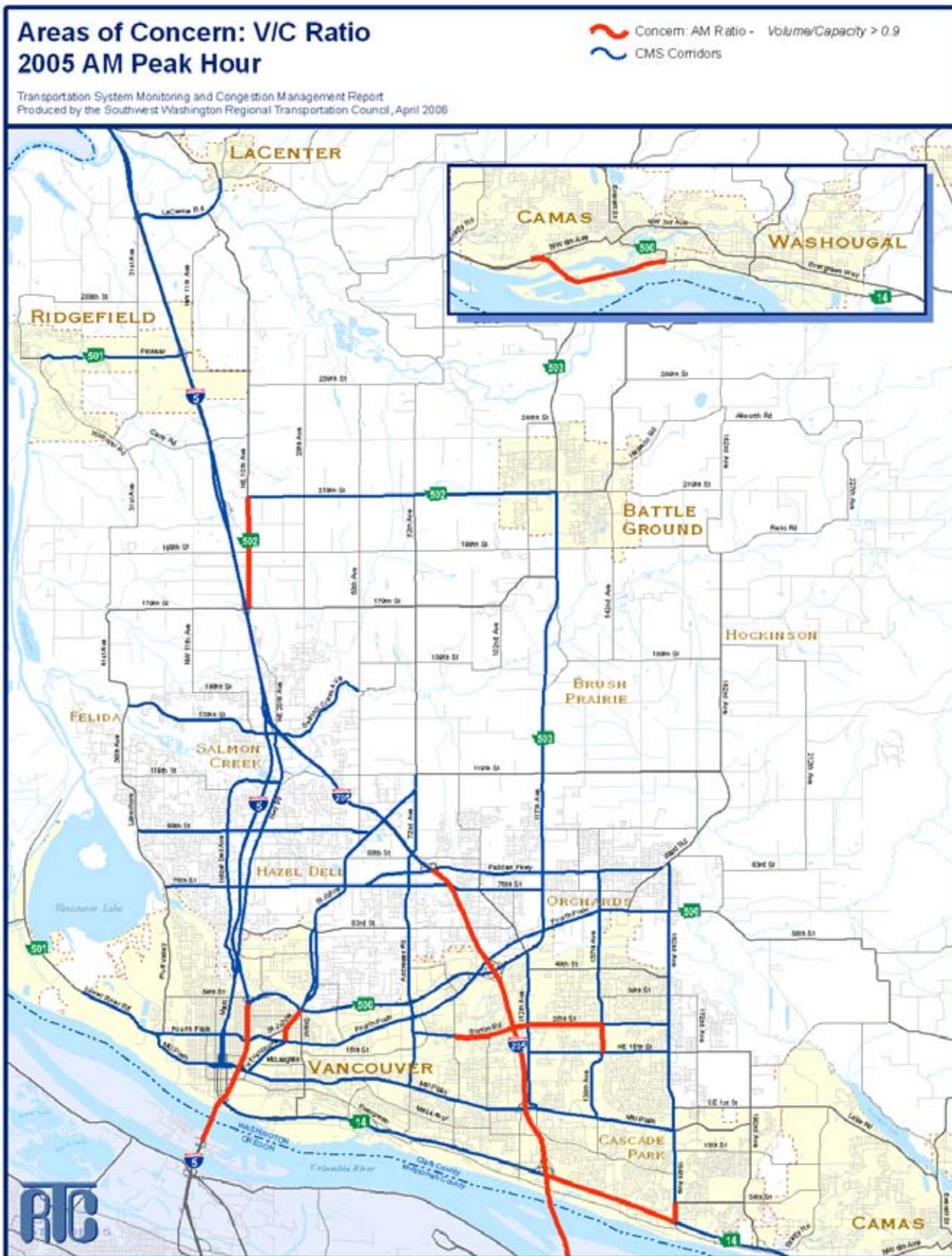
### Map 13 – PM Transit Seat Capacity Used



Map 14 – PM Transit Seats as Percent of Lane Capacity



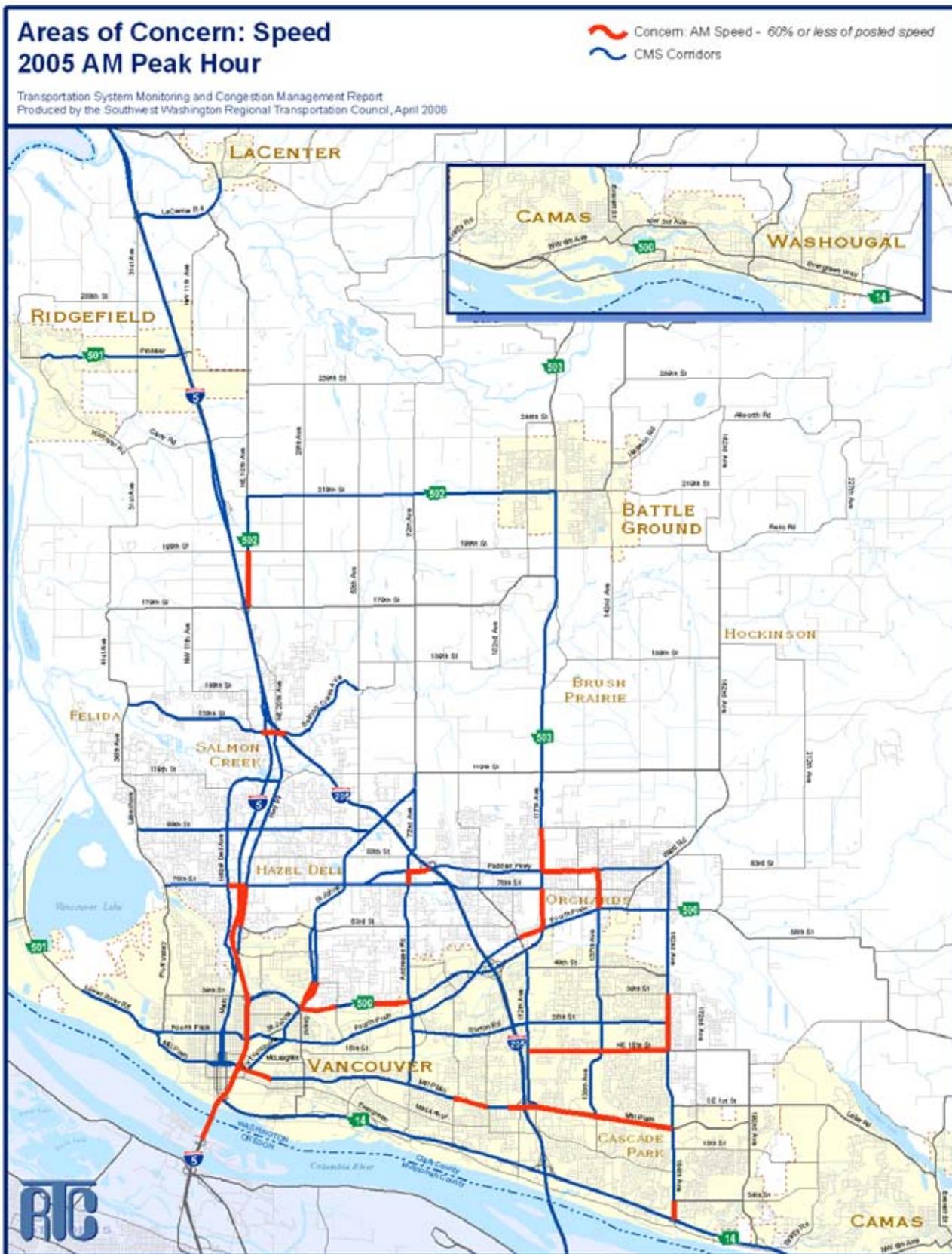
Map 15 – AM Areas of Concern: Volume to Capacity Ratio



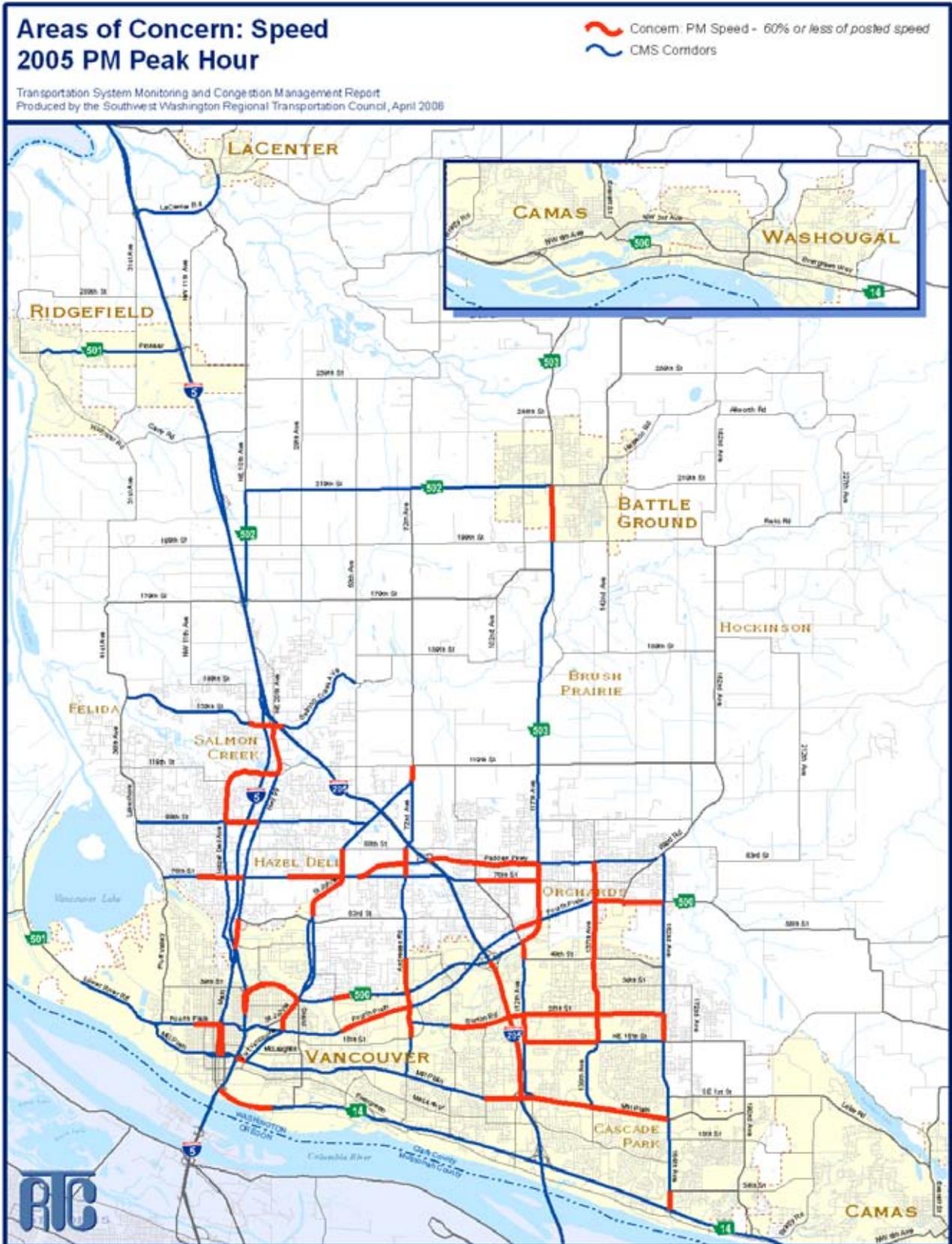
### Map 16 – PM Areas of Concern: Volume to Capacity Ratio



### Map 17 – AM Areas of Concern: Speed



### Map 18 – PM Areas of Concern: Speed



## CHAPTER IV.

# PERFORMANCE MONITORING AND IMPLEMENTATION

The purpose of the Congestion Management System is to develop a better tool that provides information on the performance of the transportation system and identify strategies to alleviate congestion and enhance mobility.

This report contains the data for the continuing development and updating of information to track the performance of the regional transportation system.

The congestion management database and Report will accomplish several objectives. It will support the local decision-making process, increase public awareness of transportation issues and tradeoffs, improve calibration efforts related to the regional travel forecasting model, and facilitate the means to develop tools for a more comprehensive and innovative analysis of the transportation system.

The subsequent phase of the congestion monitoring development is to: 1) continue the enhanced data collection process, 2) identify additional data collection needs, 3) improve the data collection process, 4) and initiate a more seamless process to update and distribute data.

The congestion management system is intended to be a continuing systematic process that provides information on transportation system performance.

Continued coordination with local jurisdictions and local agencies is another key activity to ensure consistency of data collection, data factoring, and ease of data storage/retrieval. This will also ensure the traffic count and turn movement and other data elements support local and regional transportation planning studies and concurrency management programs.

Congestion monitoring is a key component of the regional transportation planning process. The congestion management system for the Clark County region supports the long-term transportation goals and objectives defined in the Metropolitan Transportation Plan. It assists in identifying the most effective transportation projects to address congestion. The congestion management system element is closely related to the data management and travel forecasting model elements.

Existing data elements will continue to be reviewed. The continued data collection need will be identified. Existing data collection activities in the region will be identified that can provide support for the congestion management system, such as corridor travel times for concurrency and will be utilized for application to the congestion management system. Additional data collection needs will be identified and initiated. These may include filling missing data from previous years, developing a process for ongoing transit ridership and travel time information, adding information on roadway lane density, and vehicle classification counts for the congestion management corridors.



# APPENDICES

## APPENDIX A. INDIVIDUAL CORRIDOR DATA

Appendix A considers and displays the transportation data by individual segment along each of the CMS corridors. The detailed data was used to develop the congestion management corridor summaries in the previous chapters and provides a comprehensive set of transportation data for the individual segments and facilities that comprise the corridors.

The purpose of considering transportation data by individual segments is to identify specific locations where congestion is occurring, which may or may not be affecting the operation of the corridor as a whole.

This section contains detailed transportation data for each of the congestion management corridors, for both the AM and PM peak periods. Information by corridor contains an individual data sheet and a schematic map of the corridor.

The detailed transportation data is provided for the following corridors:

I-5

I-205

St. Johns

Andresen Road/72<sup>nd</sup> Avenue

SR-503

137<sup>th</sup> Avenue

162<sup>nd</sup>/164<sup>th</sup> Avenue

SR-14

Mill Plain Boulevard

Fourth Plain Boulevard

SR-500

78<sup>th</sup>/Padden Parkway

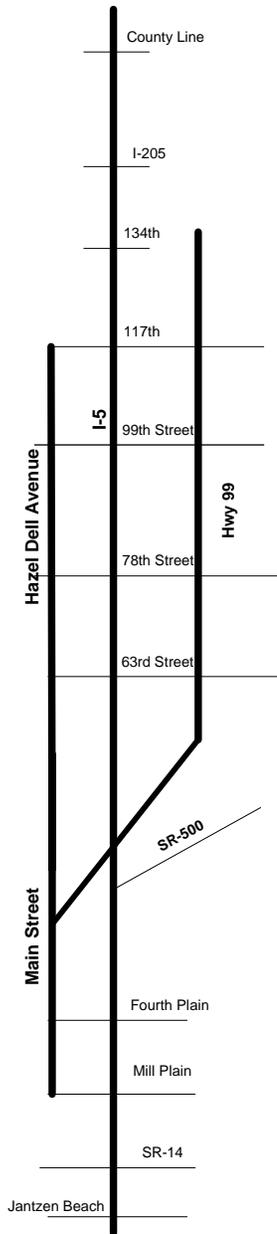
99<sup>th</sup> Street

28<sup>th</sup>/18<sup>th</sup> Streets

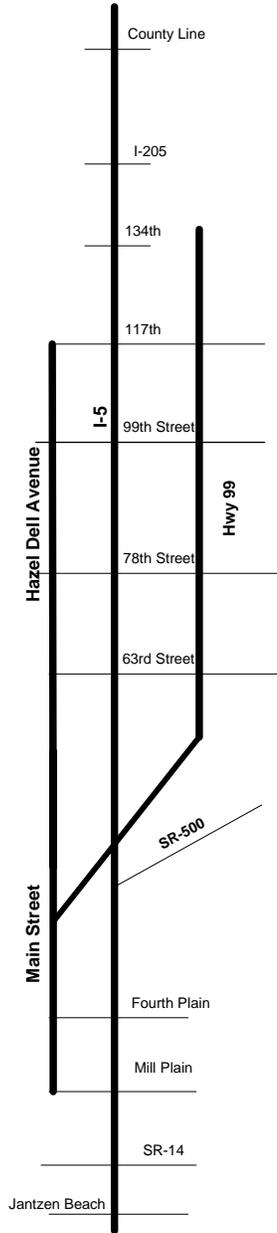
134<sup>th</sup>/139<sup>th</sup> Streets

SR-502

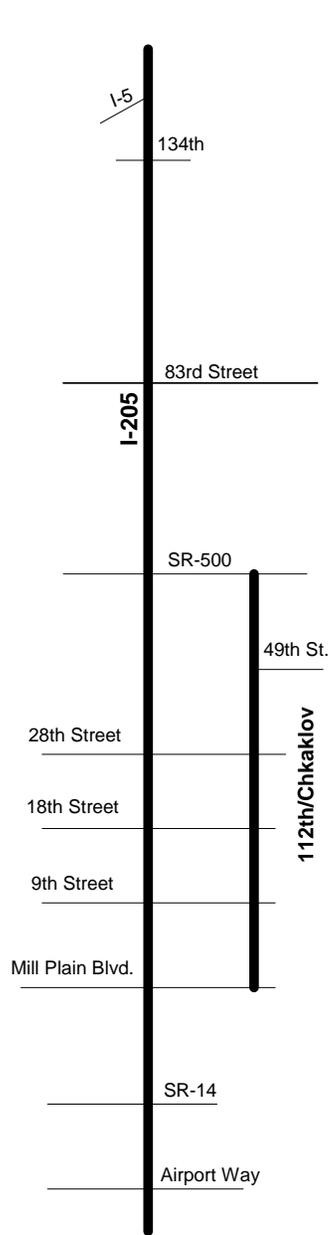
SR-501 & La Center Road



I-5 Corridor															
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity		
	Length	Capacity													
<b>AM - Southbound/Westbound</b>															
<b>I-5</b>															
	County Line	- 319th St.	3.95	5400	2019	0.37	13%		218	65					
	319th St.	- SR 501/Pioneer	2.64	5400	2952	0.55	13%		138	69					
	SR 501/Pioneer	- SR 502/179th St.	4.72	5400	2925	0.54	13%	1.12	245	70					
	SR 502/179th St.	- I-205	1.10	5400	3430	0.64	13%		63	63	173	0	40	0.0%	
			<b>12.42</b>		<b>3430</b>	<b>0.51</b>	<b>13%</b>	<b>1.12</b>	<b>663</b>	<b>67</b>	<b>173</b>	<b>0</b>	<b>40</b>	<b>0.0%</b>	<b>1.1%</b>
<b>I-5</b>															
	I-205	- 134th St.	1.07	3400	1765	0.52			64	60					
	134th St.	- 99th St.	1.18	3800	3312	0.87	9%		74	57					
	99th St.	- 78th St.	1.06	6000	3802	0.63	7%		64	60	134,173	179	440	40.7%	
	78th St.	- Main St.	1.47	6000	3856	0.64	6%		276	19					
			<b>4.78</b>		<b>3856</b>	<b>0.68</b>	<b>7%</b>	<b>1.15</b>	<b>478</b>	<b>36</b>	<b>134,173</b>	<b>179</b>	<b>440</b>	<b>40.7%</b>	<b>11.0%</b>
<b>Hwy 99</b>															
	134th St.	- 117th St.	0.89	1700	752	0.44	9%		105	31					
	117th St.	- 99th St.	0.91	1700	376	0.22	7%		98	33					
	99th St.	- 78th St.	1.03	1700	496	0.29	6%		109	34					
	78th St.	- 63rd St.	0.74	1700	495	0.29	6%	1.12	134	20	71	50	210	23.8%	
	63rd St.	- Ross St.	0.41	1700	741	0.44	5%		45	33					
			<b>3.98</b>		<b>752</b>	<b>0.35</b>	<b>7%</b>	<b>1.12</b>	<b>491</b>	<b>29</b>	<b>71</b>	<b>50</b>	<b>210</b>	<b>23.8%</b>	<b>12.4%</b>
<b>Hazel Dell</b>															
	117th St.	- 99th St.	1.70	800	424	0.53	3%		197	31					
	99th St.	- 78th St.	1.00	1700	426	0.25	2%		149	24					
	78th St.	- 63rd St.	0.73	800	496	0.62	3%		87	30	6	25	120	20.8%	
			<b>3.43</b>		<b>496</b>	<b>0.47</b>	<b>3%</b>	<b>1.11</b>	<b>433</b>	<b>29</b>	<b>6</b>	<b>25</b>	<b>120</b>	<b>20.8%</b>	<b>7.5%</b>
<b>I-5</b>															
	Main St.	- 39th St.	0.74	5400	4453	0.82	6%		181	15	134, 157, 173, 190	201	560	35.9%	
	39th St.	- 4th Plain	0.70	5700	5346	0.94	6%	1.24	169	15					
	4th Plain	- Mill Plain	0.32	5700	5265	0.92	6%		57	20					
	Mill Plain	- SR 14	0.67	5400	5265	0.98	6%		117	21					
	SR 14	- Jantzen Beach	1.18	5400	5568	1.03	7%		149	29	105,114,134,157,173	343	960	35.7%	
			<b>3.61</b>		<b>5568</b>	<b>0.96</b>	<b>6%</b>	<b>1.24</b>	<b>673</b>	<b>19</b>	<b>105,114,134,157</b>	<b>343</b>	<b>960</b>	<b>35.7%</b>	<b>26.7%</b>
<b>Main Street</b>															
	Ross St.	- 39th St.	0.83	1700	1503	0.88	3%		95	31					
	39th St.	- Fourth Plain	0.69	1200	979	0.82	6%		106	23	6, 71	104	330	31.5%	
	Fourth Plain	- Mill Plain	1.02	800	637	0.80			166	22					
			<b>2.54</b>		<b>1503</b>	<b>0.84</b>	<b>5%</b>	<b>1.11</b>	<b>367</b>	<b>25</b>	<b>6, 71</b>	<b>104</b>	<b>330</b>	<b>31.5%</b>	<b>27.5%</b>

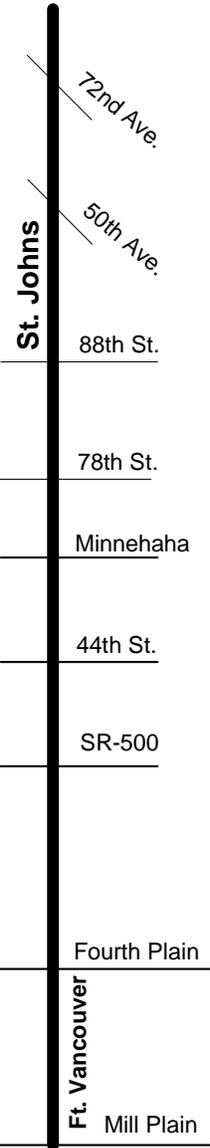


I-5 Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity											
<b>PM - Nouthbound/Eastbound</b>													
<b>I-5</b>													
County Line - 319th St.	4.25	5400	2536	0.47	16%		223	69					
319th St. - SR 501/Pioneer	2.59	5400	3216	0.60	13%		143	65					
SR 501/Pioneer - SR 502/179th St.	4.76	5400	3223	0.60	13%		263	65					
SR 502/179th St. - I-205	1.47	5400	4140	0.77	13%	1.23	87	61	173	5	40	12.5%	
	<b>13.07</b>		<b>4140</b>	<b>0.59</b>	<b>14%</b>	<b>1.23</b>	<b>716</b>	<b>66</b>	<b>173</b>	<b>5</b>	<b>40</b>	<b>12.5%</b>	<b>1.1%</b>
<b>I-5</b>													
I-205 - 134th St.	0.75	3400	2250	0.66	9%		46	59					
134th St. - 99th St.	1.92	3800	3000	0.79	9%	1.17	125	55					
99th St. - 78th St.	1.08	6000	3623	0.60	9%		63	62	134,173	357	440	81.1%	
78th St. - Main St.	1.31	6000	4511	0.75	6%		77	61					
	<b>5.06</b>		<b>4511</b>	<b>0.72</b>	<b>8%</b>	<b>1.17</b>	<b>311</b>	<b>59</b>	<b>134,173</b>	<b>357</b>	<b>440</b>	<b>81.1%</b>	<b>7.3%</b>
<b>Hwy 99</b>													
134th St. - 117th St.	0.89	1700	978	0.58	2%		165	19					
117th St. - 99th St.	0.91	1700	759	0.45	2%		108	30					
99th St. - 78th St.	1.03	1700	1145	0.67	2%		133	28					
78th St. - 63rd St.	0.74	1700	1105	0.65	2%	1.31	120	22	71	120	210	50.0%	
63rd St. - Ross St.	0.41	1700	1078	0.63	2%		64	23					
	<b>3.98</b>		<b>1145</b>	<b>0.60</b>	<b>2%</b>	<b>1.31</b>	<b>590</b>	<b>24</b>	<b>71</b>	<b>120</b>	<b>210</b>	<b>50.0%</b>	<b>14.1%</b>
<b>Hazel Dell</b>													
117th St. - 99th St.	1.68	800	569	0.71	1%		329	18					
99th St. - 78th St.	0.94	1700	739	0.43	1%		117	29					
78th St. - 63rd St.	0.74	800	751	0.94	1%		104	26	6	25	120	20.8%	
	<b>3.36</b>		<b>751</b>	<b>0.68</b>	<b>1%</b>	<b>1.24</b>	<b>550</b>	<b>22</b>	<b>6</b>	<b>25</b>	<b>120</b>	<b>20.8%</b>	<b>7.5%</b>
<b>I-5</b>													
Main St. - 39th St.	0.72	5700	6240	1.09	5%		41	63	134, 157, 173, 190	426	640	66.6%	
39th St. - 4th Plain	0.16	6300	6456	1.02	4%	1.08	10	58					
4th Plain - Mill Plain	0.95	5700	5762	1.01	4%		59	58					
Mill Plain - SR 14	0.45	5400	5348	0.99	6%		25	65					
SR 14 - Jantzen Beach	0.73	5400	5400	1.00	5%		75	35	105,114,134,157,173	593	1120	52.9%	
	<b>3.01</b>		<b>6456</b>	<b>1.03</b>	<b>5%</b>	<b>1.08</b>	<b>210</b>	<b>52</b>	<b>105,114,134,157,</b>	<b>593</b>	<b>1120</b>	<b>52.9%</b>	<b>31.1%</b>
<b>Main Street</b>													
Ross St. - 39th St.	0.85	1700	725	0.43	3%		92	33					
39th St. - Fourth Plain	0.69	1200	687	0.57	2%		134	19	6, 71	172	360	47.8%	
Fourth Plain - Mill Plain	0.57	800	361	0.45	2%		176	12					
	<b>2.11</b>		<b>725</b>	<b>0.48</b>	<b>2%</b>	<b>1.24</b>	<b>402</b>	<b>19</b>	<b>6, 71</b>	<b>172</b>	<b>360</b>	<b>47.8%</b>	<b>30.0%</b>



I-205 Corridor														
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity	
	Length	Capacity												
<b>AM - Southbound/Westbound</b>														
<b>I-205</b>														
I-5	- 134th St.	0.52	3800	1900	0.50	9%	32	58						
134th St.	- 83rd St.	2.89	3800	2670	0.70	7%	182	57						
83rd St.	- SR 500	2.01	3800	3488	0.92	1.10	134	54						
		<b>5.42</b>		<b>3488</b>	<b>0.79</b>	<b>8%</b>	<b>1.10</b>	<b>348</b>	<b>56</b>					
<b>I-205</b>														
SR 500	- Mill Plain	2.73	5800	5196	0.90		171	57						
Mill Plain	- SR 14	1.03	6400	6099	0.95	1.03	69	54	177	48	80	60.0%		
SR 14	- Airport Way	2.62	7400	7500	1.01	4%	187	50	164, 165, 177	284	560	50.7%		
		<b>6.38</b>		<b>7500</b>	<b>0.96</b>	<b>4%</b>	<b>1.03</b>	<b>427</b>	<b>54</b>	<b>164, 165, 177</b>	<b>284</b>	<b>560</b>	<b>51.0%</b>	<b>11.4%</b>
<b>112th Ave. NE / Chkalov Drive / Gher Road</b>														
SR 500	- 49th St.	0.32	1600	895	0.56		44	26						
49th St.	- 28th St.	1.00	1600	845	0.53		139	26	80	24	120	20.0%		
28th St.	- 18th St.	0.51	1600	745	0.47	5%	53	34						
18th St.	- 9th St.	0.50	1600	739	0.46		53	34						
9th St.	- Mill Plain	0.56	1600	852	0.53		91	22						
		<b>2.89</b>		<b>895</b>	<b>0.51</b>	<b>5%</b>	<b>1.11</b>	<b>380</b>	<b>27</b>	<b>80</b>	<b>24</b>	<b>120</b>	<b>20.0%</b>	<b>7.5%</b>

I-205 Corridor														
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity	
	Length	Capacity												
<b>PM - Nouthbound/Eastbound</b>														
<b>I-205</b>														
I-5	- 134th St.	0.79	3800	2146	0.56	10%	47	60						
134th St.	- 83rd St.	3.66	3800	2676	0.70	9%	222	59						
83rd St.	- SR 500	2.23	3800	3647	0.96	1.24	155	52						
		<b>6.68</b>		<b>3647</b>	<b>0.80</b>	<b>9%</b>	<b>1.24</b>	<b>424</b>	<b>57</b>					
<b>I-205</b>														
SR 500	- Mill Plain	2.45	5800	5286	0.91	6%	251	35						
Mill Plain	- SR 14	0.89	6400	6343	0.99	9%	1.04	55	58	177	50	160	31.3%	
SR 14	- Airport Way	2.10	7200	7483	1.04	4%	155	49	164, 165, 177	396	760	52.1%		
		<b>5.44</b>		<b>7483</b>	<b>0.98</b>	<b>6%</b>	<b>1.04</b>	<b>461</b>	<b>42</b>	<b>164, 165, 177</b>	<b>396</b>	<b>760</b>	<b>52.1%</b>	<b>15.8%</b>
<b>112th Ave. NE / Chkalov Drive / Gher Road</b>														
SR 500	- 49th St.	0.31	1600	1528	0.96	2%	99	11						
49th St.	- 28th St.	0.99	1600	1124	0.70	3%	167	21	80	16	120	13.3%		
28th St.	- 18th St.	0.50	1600	975	0.61	1%	302	6						
18th St.	- 9th St.	0.50	1600	952	0.60	1%	80	23						
9th St.	- Mill Plain	0.58	1600	920	0.58	2%	71	29						
		<b>2.88</b>		<b>1528</b>	<b>0.69</b>	<b>2%</b>	<b>1.24</b>	<b>719</b>	<b>14</b>	<b>80</b>	<b>16</b>	<b>120</b>	<b>13.3%</b>	<b>7.5%</b>



Grand/St. Johns Corridor														
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity	
	Length	Capacity												
AM - Southbound/Westbound														
<b>St. Johns Rd.</b>														
	NE 72nd Ave. - 50th Ave.	1.37	800	494	0.62	3%	109	45						
	50th Ave. - NE 88th St.	0.38	1800	1088	0.60		48	28						
	NE 88th St. - NE 78th St.	0.50	1800	827	0.46	6%	50	36						
	NE 78th St. - NE Minnehaha St.	1.07	1800	820	0.46	8%	96	40						
<b>St. Johns Rd./St. James Rd.</b>														
	NE Minnehaha St. - NE 44th St.	0.97	1800	786	0.44		111	31	25	33	120	27.5%		
	NE 44th St. - SR 500	0.51	1800	1103	0.61	4%	112	16						
<b>St. Johns Blvd.</b>														
	SR-500 - Ft. Vancouver	0.45	800	770	0.96		65	25						
<b>Ft. Vancouver Way</b>														
	St. Johns - Fourth Plain	0.24	800	329	0.41		49	17						
	Fourth Plain - Mill Plain	0.86	1800	419	0.23		140	22						
		<b>6.34</b>		<b>1103</b>	<b>0.53</b>	<b>5%</b>	<b>1.11</b>	<b>781</b>	<b>29</b>	<b>25</b>	<b>33</b>	<b>120</b>	<b>27.5%</b>	<b>6.7%</b>

Grand/St. Johns Corridor														
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity	
	Length	Capacity												
PM - Nouthbound/Eastbound														
<b>St. Johns Rd.</b>														
	NE 72nd Ave. - 50th Ave.	1.37	800	566	0.71	4%	125	39						
	50th Ave. - NE 88th St.	0.35	1800	961	0.53	3%	29	43						
	NE 88th St. - NE 78th St.	0.49	1800	817	0.45	3%	74	24						
	NE 78th St. - NE Minnehaha St.	1.23	1800	866	0.48	3%	186	24						
<b>St. Johns Rd./St. James Rd.</b>														
	NE Minnehaha St. - NE 44th St.	0.84	1800	947	0.53	3%	106	29	25	42	120	35.0%		
	NE 44th St. - SR 500	0.54	1800	1036	0.58	3%	61	32						
<b>St. Johns Blvd.</b>														
	SR-500 - Ft. Vancouver	0.82	800	464	0.58	2%	231	13						
<b>Ft. Vancouver Way</b>														
	St. Johns - Fourth Plain	0.22	800	508	0.64	2%	36	22						
	Fourth Plain - Mill Plain	0.88	1800	555	0.31	2%	139	23						
		<b>6.73</b>		<b>1036</b>	<b>0.53</b>	<b>3%</b>	<b>1.24</b>	<b>987</b>	<b>25</b>	<b>25</b>	<b>42</b>	<b>120</b>	<b>35.0%</b>	<b>6.7%</b>

St. Johns

119th

I-205

83rd

78th

Andresen Rd/72nd Ave.

63rd

Vancouver Mall Dr

SR-500

Fourth Plain Blvd.

18th

Mill Plain Blvd.

Andresen Rd./72nd Av. Corridor													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	AM - Southbound/Westbound										
<b>Andresen Rd. / N.E. 72nd Avenue.</b>													
119th St. - St. Johns Rd.	0.29	1800	1062	0.59	4%		31	34					
St. Johns Rd. - 88th St.	1.24	800	682	0.85	5%		115	39					
88th St. - Padden Parkway	0.28	1800	1058	0.59	4%		34	30					
Padden Parkway - 78th St.	0.23	1800	572	0.32			39	21					
78th St. - 63rd St.	0.76	1800	674	0.37	7%		74	37					
63rd St. - Vancouver Mall Dr.	0.70	1800	904	0.50	4%		62	41	7, 76, 78	55	270	20.4%	
Vancouver Mall - SR 500	0.62	1800	1176	0.65			81	28					
	<b>4.12</b>		<b>1176</b>	<b>0.61</b>	<b>5%</b>	<b>1.11</b>	<b>436</b>	<b>34</b>	<b>7, 76, 78</b>	<b>55</b>	<b>270</b>	<b>20.4%</b>	<b>15.0%</b>
<b>Andresen Rd.</b>													
SR 500 - Fourth Plain Blvd.	0.27	1800	1204	0.67	4%		42	23					
Fourth Plain Blvd. - 18th St.	0.55	1800	858	0.48	5%		74	27					
18th St. - Mill Plain Blvd.	0.68	1800	804	0.45			77	32	32	66	150	44.0%	
	<b>1.50</b>		<b>1204</b>	<b>0.51</b>	<b>5%</b>	<b>1.11</b>	<b>193</b>	<b>28</b>	<b>32</b>	<b>66</b>	<b>150</b>	<b>44.0%</b>	<b>8.3%</b>

Andresen Rd./72nd Av. Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>Andresen Rd. / N.E. 72nd Avenue.</b>													
119th St. - St. Johns Rd.	0.29	1800	1473	0.82	4%		43	24					
St. Johns Rd. - 88th St.	1.24	800	853	1.07	3%		111	40					
88th St. - Padden Parkway	0.28	1800	1335	0.74	3%		41	25					
Padden Parkway - 78th St.	0.23	1800	813	0.45	3%		75	11					
78th St. - 63rd St.	0.76	1800	986	0.55	3%		68	40					
63rd St. - Vancouver Mall Dr.	0.70	1800	1224	0.68	3%		93	27	7, 76, 78	61	270	22.6%	
Vancouver Mall - SR 500	0.62	1800	1496	0.83	3%		118	19					
	<b>4.12</b>		<b>1496</b>	<b>0.79</b>	<b>3%</b>	<b>1.24</b>	<b>549</b>	<b>27</b>	<b>7, 76, 78</b>	<b>61</b>	<b>270</b>	<b>22.6%</b>	<b>15.0%</b>
<b>Andresen Rd.</b>													
SR 500 - Fourth Plain Blvd.	0.25	1800	1652	0.92	3%		43	21					
Fourth Plain Blvd. - 18th St.	0.56	1800	1162	0.65	2%		138	15					
18th St. - Mill Plain Blvd.	0.70	1800	1038	0.58	2%		82	31	32	66	120	55.0%	
	<b>1.51</b>		<b>1652</b>	<b>0.68</b>	<b>2%</b>	<b>1.24</b>	<b>263</b>	<b>21</b>	<b>32</b>	<b>66</b>	<b>120</b>	<b>55.0%</b>	<b>6.7%</b>

SR-503

SR-502/219th

199th

144th

119th

99th

Padden Parkway

76th

Fourth Plain

SR-503 Corridor														
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity	
	Length	Capacity												
AM - Southbound/Westbound														
SR 503														
	119th St. - 99th St.	0.99	1800	1593	0.89	7%	104	34						
	99th St. - Padden Parkway	0.77	1800	1478	0.82	7%	126	22	7	26	90	28.9%		
	Padden Parkway - 76th St.	0.29	1800	1399	0.78	7%	41	25						
	76th St. - Fourth Plain/SR 500	0.72	1800	1482	0.82		1.09	171	15					
		<b>2.77</b>		<b>1593</b>	<b>0.84</b>	<b>7%</b>	<b>1.09</b>	<b>442</b>	<b>23</b>	<b>7</b>	<b>26</b>	<b>90</b>	<b>28.9%</b>	<b>5.0%</b>
SR 503														
	SR-502 - 199th St.	0.99	1800	1031	0.57	5%	103	35						
	199th St. - 149th St.	2.54	1800	1380	0.77	4%	1.11	180	51					
	149th St. - 119th St.	1.49	1800	1595	0.89	3%		111	48					
		<b>5.02</b>		<b>1595</b>	<b>0.78</b>	<b>4%</b>	<b>1.11</b>	<b>394</b>	<b>46</b>					

SR-503 Corridor														
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity	
	Length	Capacity												
PM - Nouthbound/Eastbound														
SR 503														
	119th St. - 99th St.	0.99	1800	1479	0.82	4%	101	35						
	99th St. - Padden Parkway	0.77	1800	1784	0.99	3%	94	29	7	31	90	34.4%		
	Padden Parkway - 76th St.	0.29	1800	1626	0.90	2%	49	21						
	76th St. - Fourth Plain/SR 500	0.72	1800	1640	0.91	2%	1.26	109	24					
		<b>2.77</b>		<b>1784</b>	<b>0.91</b>	<b>3%</b>	<b>1.26</b>	<b>353</b>	<b>28</b>	<b>7</b>	<b>31</b>	<b>90</b>	<b>34.4%</b>	<b>5.0%</b>
SR 503														
	SR-502 - 199th St.	0.99	1800	1106	0.61	4%	119	30						
	199th St. - 149th St.	2.54	1800	1552	0.86	4%	1.23	237	39					
	149th St. - 119th St.	1.49	1800	1460	0.81	4%		127	42					
		<b>5.02</b>		<b>1552</b>	<b>0.81</b>	<b>4%</b>	<b>1.23</b>	<b>483</b>	<b>37</b>					

137th Avenue

Padden Parkway

136/137/138th Avenue Corridor													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	AM - Southbound/Westbound										
<b>136/137/138th Ave.</b>													
Padden Parkway - SR-500	0.71	800	541	0.68	5%		131	20					
SR-500 - 49th St.	1.05	800	481	0.60			112	34					
49th St. - 28th St.	1.00	800	441	0.55			137	26					
28th St. - 18th St.	0.51	800	847	1.06	4%		87	21					
18th St. - Mill Plain	1.28	1800	733	0.41			177	26					
	<b>4.55</b>		<b>847</b>	<b>0.61</b>	<b>5%</b>	<b>1.11</b>	<b>643</b>	<b>26</b>					

SR-500

49th St

28th St

18th St.

Mill Plain Blvd.

136/137/138th Avenue Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>136/137/138th Ave.</b>													
Padden Parkway - SR-500	0.69	800	556	0.70	3%		143	17					
SR-500 - 49th St.	1.03	800	650	0.81	2%		171	22					
49th St. - 28th St.	1.00	800	597	0.75	5%		292	12					
28th St. - 18th St.	0.49	800	760	0.95	2%		155	11					
18th St. - Mill Plain	1.27	1800	956	0.53	2%		212	22					
	<b>4.48</b>		<b>956</b>	<b>0.70</b>	<b>3%</b>	<b>1.23</b>	<b>973</b>	<b>22</b>					

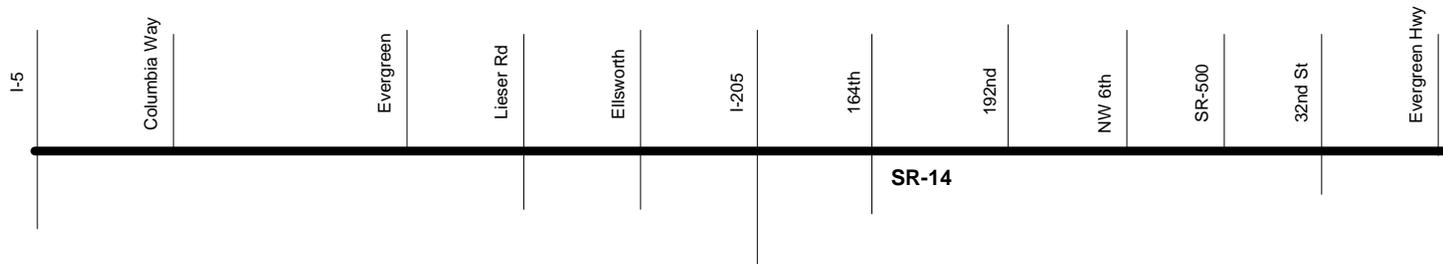
Ward Rd.  
SR-500  
39th  
28th  
18th  
1st St  
162nd/164th Ave.  
Mill Plain  
SE 15th  
McGillivray  
SE 34th  
SR-14

162nd/164th Avenue Corridor													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	AM - Southbound/Westbound										
<b>162nd/164th Ave.</b>													
Ward Rd. - SR 500	0.88	1800	560	0.31	7%		130	24					
SR 500 - 39th St.	1.51	1800	791	0.44	7%		132	41					
39th St. - 28th St.	0.51	1800	784	0.44	5%		85	22					
28th St. - 18th St.	0.50	1800	1012	0.56	6%		90	20	30	74	120	61.7%	
18th St. - 1st St.	1.01	1800	1025	0.57	5%		107	34					
1st St. - Mill Plain	0.39	1800	1143	0.64	6%		39	36					
	<b>4.79</b>		<b>1143</b>	<b>0.49</b>	<b>6%</b>	<b>1.11</b>	<b>583</b>	<b>30</b>	<b>30</b>	<b>74</b>	<b>120</b>	<b>61.7%</b>	<b>6.7%</b>
<b>162nd/164th Ave.</b>													
Mill Plain - 15th St.	0.36	2400	1144	0.48	6%		47	28					
15th St. - McGillivray	0.40	2400	974	0.41	6%	1.10	44	33					
McGillivray - 34th St.	0.34	2400	1222	0.51	5%		36	34	30, 37, 80	85	480	17.7%	
34th St. - SR 14	0.34	2400	2325	0.97	3%		99	12					
	<b>1.44</b>		<b>2325</b>	<b>0.66</b>	<b>5%</b>	<b>1.10</b>	<b>226</b>	<b>23</b>	<b>30, 37, 80</b>	<b>85</b>	<b>480</b>	<b>17.4%</b>	<b>30.0%</b>

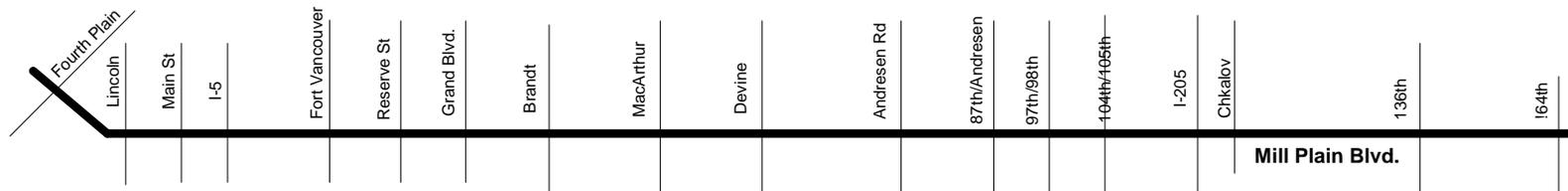
162nd/164th Avenue Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>162nd/164th Ave.</b>													
Ward Rd. - SR 500	0.87	1800	848	0.47	3%		94	33					
SR 500 - 39th St.	1.51	1800	1014	0.56	2%		192	28					
39th St. - 28th St.	0.51	1800	1088	0.60	2%		61	30					
28th St. - 18th St.	0.50	1800	1228	0.68	3%		88	20	30	23	120	19.2%	
18th St. - 1st St.	1.01	1800	1235	0.69	3%		132	28					
1st St. - Mill Plain	0.39	1800	1346	0.75	2%		56	25					
	<b>4.79</b>		<b>1346</b>	<b>0.62</b>	<b>3%</b>	<b>1.24</b>	<b>623</b>	<b>28</b>	<b>30</b>	<b>23</b>	<b>120</b>	<b>19.2%</b>	<b>6.7%</b>
<b>162nd/164th Ave.</b>													
Mill Plain - 15th St.	0.36	2400	1488	0.62	2%		45	29					
15th St. - McGillivray	0.26	2400	1203	0.50	3%	1.23	27	35					
McGillivray - 34th St.	0.52	2400	1658	0.69	2%		66	28	30, 37, 80	91	480	19.0%	
34th St. - SR 14	0.34	2400	2248	0.94	2%		100	12					
	<b>1.48</b>		<b>2248</b>	<b>0.73</b>	<b>2%</b>	<b>1.23</b>	<b>238</b>	<b>22</b>	<b>30, 37, 80</b>	<b>91</b>	<b>480</b>	<b>19.0%</b>	<b>30.0%</b>

SR-14 Corridor													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	AM - Southbound/Westbound										
<b>SR 14</b>													
I-5 - Columbia Way	1.80	3600	2111	0.59	4%		120	54					
Columbia Way - Evergreen Blvd.	1.70	3600	2951	0.82		1.03	111	55					
Evergreen Blvd. - Lieser Rd.	0.86	3600	2899	0.81			56	55	114	15	40	37.5%	
Lieser Rd. - Ellsworth Rd.	0.76	3600	2955	0.82			51	54					
Ellsworth Rd. - I-205	0.77	3600	2676	0.74	4%		48	58					
	<b>5.89</b>		<b>2955</b>	<b>0.75</b>	<b>4%</b>	<b>1.03</b>	<b>386</b>	<b>55</b>	<b>114</b>	<b>15</b>	<b>40</b>	<b>37.5%</b>	<b>1.1%</b>
<b>SR 14</b>													
I-205 - 164th Ave.	2.04	3600	3710	1.03	4%	1.04	132	56					
	<b>2.04</b>		<b>3710</b>	<b>1.03</b>	<b>4%</b>	<b>1.04</b>	<b>132</b>	<b>56</b>					
<b>SR 14</b>													
164th Ave. - 6th Ave. NW	3.47	3600	2344	0.65			227	55	92, 114	36	160	22.5%	
6th Ave. NW - SR 500	2.21	1200	1105	0.92	8%		155	51					
SR 500 - 32nd St.	2.39	1200	987	0.82	4%		207	42					
32nd St. - Evergreen Hwy.	1.82	1200	241	0.20	10%		131	50					
	<b>9.89</b>		<b>2344</b>	<b>0.72</b>	<b>7%</b>	<b>1.10</b>	<b>720</b>	<b>49</b>	<b>92, 114</b>	<b>36</b>	<b>160</b>	<b>22.5%</b>	<b>4.4%</b>

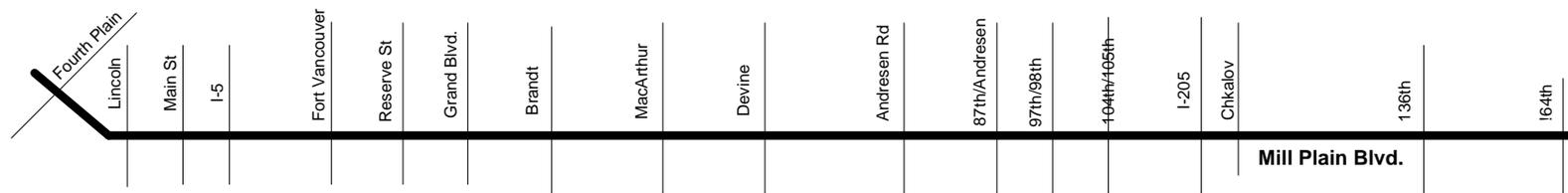
SR-14 Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>SR 14</b>													
I-5 - Columbia Way	0.67	3600	3056	0.85	4%		211	11					
Columbia Way - Evergreen Blvd.	2.49	3600	2897	0.80	4%		158	57					
Evergreen Blvd. - Lieser Rd.	0.93	3600	3043	0.85	4%		59	57	114	6	40	15.0%	
Lieser Rd. - Ellsworth Rd.	1.12	3600	2966	0.82	4%		70	58					
Ellsworth Rd. - I-205	0.77	3600	2628	0.73	3%		49	57					
	<b>5.98</b>		<b>3056</b>	<b>0.81</b>	<b>4%</b>	<b>1.03</b>	<b>547</b>	<b>39</b>	<b>114</b>	<b>6</b>	<b>40</b>	<b>15.0%</b>	<b>1.1%</b>
<b>SR 14</b>													
I-205 - 164th Ave.	1.48	3600	3760	1.04	3%	1.11	125	43					
	<b>1.48</b>		<b>3760</b>	<b>1.04</b>	<b>3%</b>	<b>1.11</b>	<b>125</b>	<b>43</b>					
<b>SR 14</b>													
164th Ave. - 6th Ave. NW	3.12	3600	2257	0.63	5%		198	57	92, 114	30	160	18.8%	
6th Ave. NW - SR 500	2.56	1200	1269	1.06	8%		191	48					
SR 500 - 32nd St.	2.39	1200	1189	0.99	5%		189	46					
32nd St. - Evergreen Hwy.	1.82	1000	290	0.29	10%		124	53					
	<b>9.89</b>		<b>2257</b>	<b>0.79</b>	<b>7%</b>	<b>1.04</b>	<b>702</b>	<b>51</b>	<b>92, 114</b>	<b>30</b>	<b>160</b>	<b>18.8%</b>	<b>4.4%</b>



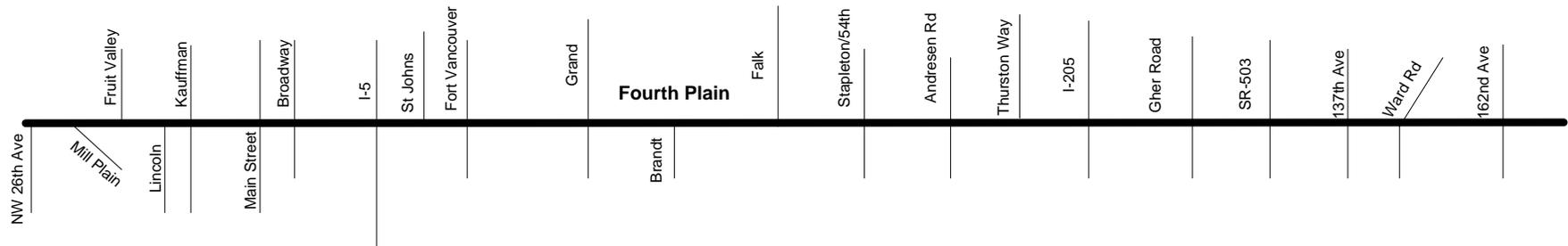
Mill Plain Blvd. Corridor													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	AM - Southbound/Westbound										
<b>Mill Plain/SR 501</b>													
I-5 - Main St.	0.34	2400	1138	0.47	9%		46	27					
Main St. - Lincoln	0.58	1700	1016	0.60	16%		77	27					
Lincoln - Fourth Plain	0.81	1800	438	0.24	26%	1.11	76	39					
	<b>1.73</b>		<b>1138</b>	<b>0.47</b>	<b>17%</b>	<b>1.11</b>	<b>199</b>	<b>31</b>					
<b>Mill Plain</b>													
I-5 - Ft. Vancouver	0.17	1800	720	0.40	2%		60	10					
Ft. Vancouver - Reserve St.	0.46	1800	623	0.35	3%		93	18					
Reserve St. - Grand Blvd.	0.57	1800	585	0.33	1%		62	33	37	143	240	59.6%	
Grand Blvd. - Brandt Rd.	0.57	1800	516	0.29	6%		76	27					
Brandt Rd. - MacArthur Blvd.	0.50	1800	527	0.29	3%		56	32	37, 39	148	300	49.3%	
MacArthur Blvd. - Devine Rd.	0.24	1800	666	0.37	4%		26	33					
Devine Rd. - Andresen Rd.	0.59	1800	776	0.43	3%	1.17	66	32					
Andresen Rd. - 87th/Leiser Rd.	0.81	1800	676	0.38	3%		116	25					
87th/Leiser Rd. - 97/98th Ave.	0.62	1800	877	0.49	3%		122	18					
97/98th Ave. - 104/105th Ave.	0.40	1800	767	0.43	3%		40	36					
104/105th Ave. - I-205	0.25	1800	970	0.54	3%		121	7					
	<b>5.18</b>		<b>970</b>	<b>0.40</b>	<b>3%</b>	<b>1.17</b>	<b>838</b>	<b>22</b>	<b>37, 39</b>	<b>148</b>	<b>300</b>	<b>49.3%</b>	<b>16.7%</b>
<b>Mill Plain</b>													
I-205 - Chkalov Drive	0.21	3000	2230	0.74			23	33	37	116	340	48.3%	
Chkalov Drive - 136th Ave.	1.07	2400	1214	0.51		1.13	217	18					
136th Ave. - 164th Ave.	1.37	2400	1636	0.68	5%		388	13					
	<b>2.65</b>		<b>2230</b>	<b>0.63</b>	<b>5%</b>	<b>1.13</b>	<b>628</b>	<b>15</b>	<b>37</b>	<b>116</b>	<b>340</b>	<b>48.3%</b>	<b>12.0%</b>



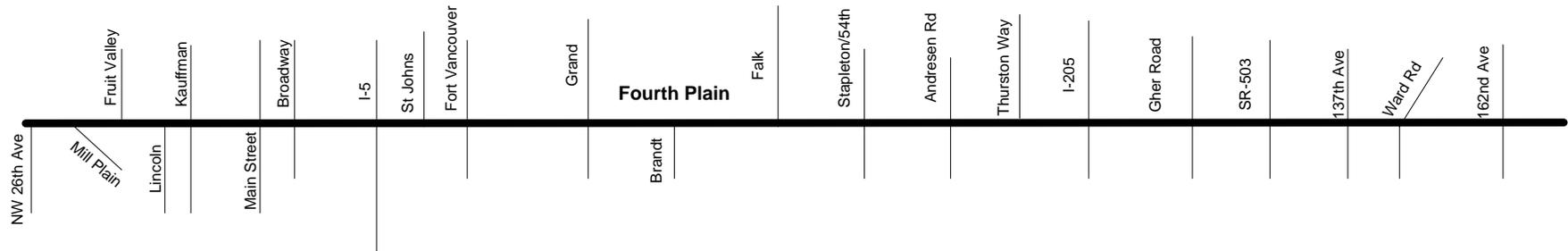
Mill Plain Blvd. Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>Mill Plain/SR 501</b>													
I-5 - Main St.	0.32	2400	1554	0.65	3%		56	21					
Main St. - Lincoln	0.58	1700	1040	0.61	5%		107	20					
Lincoln - Fourth Plain	1.02	1800	305	0.17	13%	1.17	116	32					
	<b>1.92</b>		<b>1554</b>	<b>0.53</b>	<b>7%</b>	<b>1.17</b>	<b>279</b>	<b>25</b>					
<b>Mill Plain</b>													
I-5 - Ft. Vancouver	0.17	1800	1103	0.61	1%		61	10					
Ft. Vancouver - Reserve St.	0.46	1800	828	0.46	2%		64	26					
Reserve St. - Grand Blvd.	0.57	1800	757	0.42	1%		83	25	37	126	240	52.5%	
Grand Blvd. - Brandt Rd.	0.57	1800	702	0.39	2%		67	31					
Brandt Rd. - MacArthur Blvd.	0.50	1800	828	0.46	2%		52	35	37, 39	127	300	42.3%	
MacArthur Blvd. - Devine Rd.	0.24	1800	989	0.55	1%		34	25					
Devine Rd. - Andresen Rd.	0.58	1800	965	0.54	1%	1.34	87	24					
Andresen Rd. - 87th/Leiser Rd.	0.90	1800	1133	0.63	1%		144	23					
87th/Leiser Rd. - 97/98th Ave.	0.53	1800	1277	0.71	1%		102	19					
97/98th Ave. - 104/105th Ave.	0.40	1800	1216	0.68	1%		89	16					
104/105th Ave. - I-205	0.25	1800	1458	0.81	1%		95	9					
	<b>5.17</b>		<b>1458</b>	<b>0.58</b>	<b>1%</b>	<b>1.34</b>	<b>878</b>	<b>21</b>	<b>37, 39</b>	<b>127</b>	<b>300</b>	<b>42.3%</b>	<b>16.7%</b>
<b>Mill Plain</b>													
I-205 - Chkalov Drive	0.21	3000	2637	0.88	1%		107	7	37	112	240	46.7%	
Chkalov Drive - 136th Ave.	1.07	2400	1958	0.82	2%	1.25	269	14					
136th Ave. - 164th Ave.	1.37	2400	1889	0.79	2%		232	21					
	<b>2.65</b>		<b>2637</b>	<b>0.81</b>	<b>2%</b>	<b>1.25</b>	<b>608</b>	<b>16</b>	<b>37</b>	<b>112</b>	<b>240</b>	<b>46.7%</b>	<b>12.0%</b>



Fourth Plain Blvd. Corridor													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity											
<b>AM - Southbound/Westbound</b>													
<b>Fourth Plain</b>													
I-5 - Main St.	0.45	1000	495	0.50	9%		87	19					
Main St. - Kaufman	0.47	1000	381	0.38	13%		73	23					
Kaufman - Fruit Valley Rd.	0.56	1000	432	0.43	15%	1.09	61	33					
Fruit Valley Rd. - Mill Plain	0.13	1000	553	0.55	10%	1.03	52	9	1	19	120	15.8%	
Mill Plain - NW 26th St.	0.46	1000	436	0.44	36%								
	<b>2.07</b>		<b>553</b>	<b>0.45</b>	<b>17%</b>	<b>1.06</b>	<b>273</b>	<b>21</b>	<b>1</b>	<b>19</b>	<b>120</b>	<b>15.8%</b>	<b>6.0%</b>
<b>Fourth Plain</b>													
I-5 - St. Johns Blvd.	0.36	1700	456	0.27			45	29					
St. Johns Blvd. - Ft. Vancouver	0.34	1700	394	0.23			36	34					
Ft. Vancouver - Grand Blvd.	0.29	1700	453	0.27	4%		35	30	4, 39	133	300	44.3%	
Grand Blvd. - Brandt Rd.	0.57	1700	542	0.32			71	29					
Brandt Rd. - Falk Rd.	0.21	1700	476	0.28			21	36					
Falk Rd. - Stapleton Rd.	0.48	1700	447	0.26			57	30					
Stapleton Rd. - Andresen Rd.	0.79	1700	704	0.41	6%	1.14	119	24					
	<b>3.04</b>		<b>704</b>	<b>0.33</b>	<b>5%</b>	<b>1.14</b>	<b>384</b>	<b>29</b>	<b>4, 39</b>	<b>133</b>	<b>300</b>	<b>44.3%</b>	<b>17.6%</b>
<b>Fourth Plain</b>													
Andresen Rd. - Thurston Way	0.74	3600	2179	0.61			47	57					
Thurston Way - Van Mall Dr.	0.63	3600	2674	0.74	3%		39	58					
Van Mall Dr. - Gher Rd.	0.81	3600	3140	0.87	5%		53	55	72, 80	38	240	15.8%	
Gher Rd. - SR 503	0.33	3000	2054	0.68			27	44					
	<b>2.51</b>		<b>3140</b>	<b>0.75</b>	<b>4%</b>	<b>1.11</b>	<b>166</b>	<b>54</b>	<b>72, 80</b>	<b>38</b>	<b>240</b>	<b>15.8%</b>	<b>13.3%</b>
<b>Fourth Plain</b>													
SR 503 - 137th Ave.	1.56	1800	1538	0.85	3%		183	31					
137th Ave. - Ward Rd.	0.56	1800	1245	0.69			49	40					
Ward Rd. - 162nd Ave.	0.20	1800	719	0.40	3%		20	35					
	<b>2.31</b>		<b>1538</b>	<b>0.80</b>	<b>3%</b>	<b>1.11</b>	<b>253</b>	<b>33</b>					

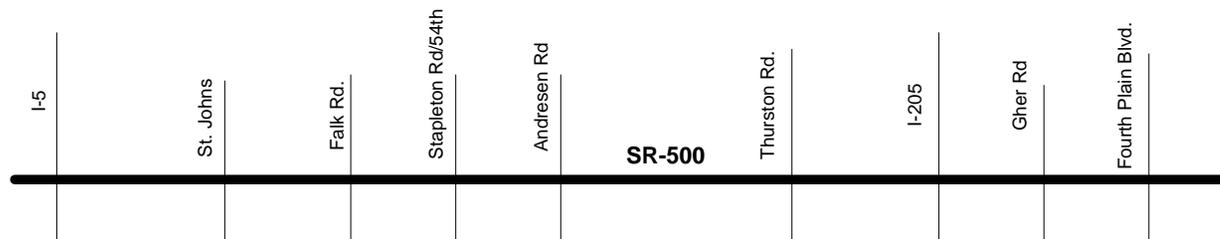


Fourth Plain Blvd. Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>Fourth Plain</b>													
I-5 - Main St.	0.44	1000	733	0.73	4%		65	24					
Main St. - Kaufman	0.50	1000	545	0.55	5%		125	14					
Kaufman - Fruit Valley Rd.	0.56	1000	565	0.57	5%	1.22	61	33					
Fruit Valley Rd. - Mill Plain	0.13	1000	480	0.48	5%		26	18	1	59	120	49.2%	
Mill Plain - NW 26th St.	0.20	1000	389	0.39	7%	1.18	40	18					
	<b>1.83</b>		<b>733</b>	<b>0.59</b>	<b>5%</b>	<b>1.20</b>	<b>317</b>	<b>21</b>	<b>1</b>	<b>59</b>	<b>120</b>	<b>49.2%</b>	<b>6.0%</b>
<b>Fourth Plain</b>													
I-5 - St. Johns Blvd.	0.36	1700	760	0.45	2%		39	33					
St. Johns Blvd. - Ft. Vancouver	0.34	1700	701	0.41	2%		55	22					
Ft. Vancouver - Grand Blvd.	0.29	1700	869	0.51	2%		50	21	4, 39	160	300	53.5%	
Grand Blvd. - Brandt Rd.	0.57	1700	875	0.51	2%		67	31					
Brandt Rd. - Falk Rd.	0.21	1700	977	0.57	2%		21	36					
Falk Rd. - Stapleton Rd.	0.48	1700	947	0.56	2%		87	20					
Stapleton Rd. - Andresen Rd.	0.79	1700	1181	0.69	2%	1.32	152	19					
	<b>3.04</b>		<b>1181</b>	<b>0.57</b>	<b>2%</b>	<b>1.32</b>	<b>471</b>	<b>23</b>	<b>4, 39</b>	<b>160</b>	<b>300</b>	<b>53.5%</b>	<b>17.6%</b>
<b>Fourth Plain</b>													
Andresen Rd. - Thurston Way	0.92	1800	1147	0.64	2%		140	24					
Thurston Way - Van Mall Dr.	0.76	1800	1182	0.66	2%		88	31					
Van Mall Dr. - Gher Rd.	0.68	1800	956	0.53	2%		121	20	72, 80	38	240	15.8%	
Gher Rd. - SR 503	0.45	1800	1450	0.81	2%		116	14					
	<b>2.81</b>		<b>1450</b>	<b>0.66</b>	<b>2%</b>	<b>1.24</b>	<b>465</b>	<b>22</b>	<b>72, 80</b>	<b>38</b>	<b>240</b>	<b>15.8%</b>	<b>13.3%</b>
<b>Fourth Plain</b>													
SR 503 - 137th Ave.	1.06	1800	2067	1.15	3%		146	26					
137th Ave. - Ward Rd.	0.49	1800	1391	0.77	2%		59	30					
Ward Rd. - 162nd Ave.	0.75	1800	962	0.53	2%		115	23					
	<b>2.30</b>		<b>2067</b>	<b>0.95</b>	<b>2%</b>	<b>1.24</b>	<b>320</b>	<b>26</b>					



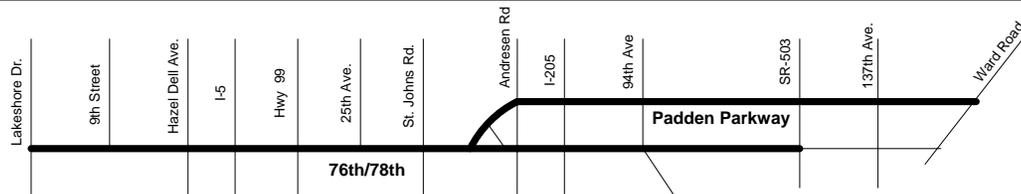
SR-500 Corridor													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	AM - Southbound/Westbound										
<b>SR 500</b>													
I-5 - St. Johns/Grand	1.21	2400	1863	0.78	5%		82	53					
St. Johns/Grand - Falk Rd.	0.64	2400	1763	0.73	4%		89	26	157, 190	25	90	27.8%	
Falk Rd. - Stapleton Rd./54th	0.57	2400	1944	0.81			44	47					
Stapleton Rd./54th - Andresen Rd.	0.35	2400	1968	0.82		1.14	41	31					
	<b>2.77</b>		<b>1968</b>	<b>0.78</b>	<b>5%</b>	<b>1.14</b>	<b>256</b>	<b>39</b>	157, 190	<b>25.00</b>	<b>90</b>	<b>27.8%</b>	<b>3.8%</b>
<b>SR 500</b>													
Andresen Rd. - Thurston Way	0.74	3600	2179	0.61			47	57					
Thurston Way - I-205	0.63	3600	2674	0.74	3%		39	58					
I-205 - Gher Rd.	0.81	3600	3140	0.87	5%		53	55					
Gher Rd. - SR 503	0.33	3000	2054	0.68			27	44					
	<b>2.51</b>		<b>3140</b>	<b>0.75</b>	<b>4%</b>	<b>1.11</b>	<b>166</b>	<b>54</b>					

SR-500 Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>SR 500</b>													
I-5 - St. Johns/Grand	1.09	2400	1805	0.75	4%		112	35					
St. Johns/Grand - Falk Rd.	0.65	2400	1902	0.79	3%		56	42	157, 190	32	150	21.3%	
Falk Rd. - Stapleton Rd./54th	0.57	2400	2112	0.88	2%		41	50					
Stapleton Rd./54th - Andresen Rd.	0.98	2400	2149	0.90	2%	1.21	59	60					
	<b>3.29</b>		<b>2149</b>	<b>0.83</b>	<b>3%</b>	<b>1.21</b>	<b>268</b>	<b>44</b>	157, 190	<b>32</b>	<b>150</b>	<b>21.3%</b>	<b>6.3%</b>
<b>SR 500</b>													
Andresen Rd. - Thurston Way	0.79	3600	2389	0.66	2%		49	58					
Thurston Way - I-205	0.62	3600	2932	0.81	2%		37	60					
I-205 - Gher Rd.	0.82	3600	3172	0.88	5%		51	58					
Gher Rd. - SR 503	0.34	3000	2445	0.82	3%		68	18					
	<b>2.57</b>		<b>3172</b>	<b>0.80</b>	<b>3%</b>	<b>1.24</b>	<b>205</b>	<b>45</b>					



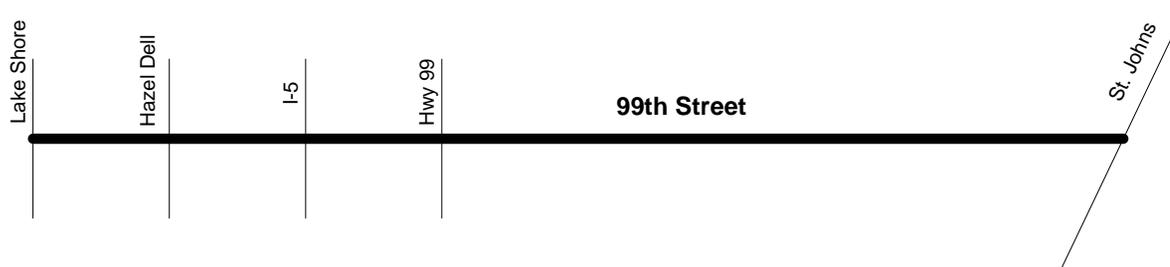
78th/76th/Padden Parkway Corridor														
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity	
	Length	Capacity	AM - Southbound/Westbound											
<b>78th St./76th St.</b>														
	Lake Shore Av. - NW 9th Av.	0.60	1800	494	0.27	7%	72	30						
	NW 9th Av. - Hazel Dell Av.	0.51	1800	723	0.40	7%	50	37						
	Hazel Dell Av. - I-5	0.21	1800	899	0.50	6%	39	19						
	I-5 - Hwy 99	0.12	1800	692	0.38	7%	25	17						
	Hwy 99 - 25th Ave.	0.76	1800	463	0.26	8%	94	29	78	18	60	30.0%		
	25th Ave. - St. Johns Rd.	0.98	1800	715	0.40	7%	83	43						
	St. Johns Rd. - 78th St.	0.45	1800	812	0.45	7%	54	30						
	78th St. - Andresen Rd.	0.73	800	361	0.45	6%	96	27						
	Andresen Rd. - Covington/94th	1.29	800	343	0.43	5%	161	29	7	29	90	32.2%		
	Covington/94th SR-503 (117th)	1.14	800	460	0.58	5%	130	32						
		<b>6.79</b>		<b>899</b>	<b>0.42</b>	<b>7%</b>	<b>1.11</b>	<b>804</b>	<b>30</b>	<b>7</b>	<b>29</b>	<b>90</b>	<b>32.2%</b>	<b>5.6%</b>
<b>Padden Parkway</b>														
	78th St. - Andresen Rd.	0.72	2400	665	0.28		55	47						
	Andresen Rd. - I-205	0.41	2400	1289	0.54		78	19						
	I-205 - 94th Av.	0.89	2400	1730	0.72	3%	68	47						
	94th Av. - SR 503 (117th)	1.14	2400	1532	0.64		93	44						
	SR-503 - 137th Av.	1.00	2400	811	0.34		125	29						
	137th Av. - Ward Rd.	0.99	1200	655	0.55		91	39						
		<b>4.42</b>		<b>1730</b>	<b>0.59</b>	<b>3%</b>	<b>1.11</b>	<b>455</b>	<b>35</b>					

78th/76th/Padden Parkway Corridor														
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity	
	Length	Capacity	PM - Nouthbound/Eastbound											
<b>78th St./76th St.</b>														
	Lake Shore Av. - NW 9th Av.	0.60	1800	404	0.22	3%	64	34						
	NW 9th Av. - Hazel Dell Av.	0.51	1800	764	0.42	3%	99	19						
	Hazel Dell Av. - I-5	0.21	1800	1081	0.60	3%	40	19						
	I-5 - Hwy 99	0.12	1800	1094	0.61	3%	54	8						
	Hwy 99 - 25th Ave.	0.76	1800	836	0.46	3%	89	31	78	16	60	26.7%		
	25th Ave. - St. Johns Rd.	0.98	1800	994	0.55	3%	142	25						
	St. Johns Rd. - 78th St.	0.46	1800	1134	0.63	4%	56	30						
	78th St. - Andresen Rd.	1.16	800	489	0.61	6%	136	31						
	Andresen Rd. - Covington/94th	1.27	800	410	0.51	4%	145	32	7	32	90	35.6%		
	Covington/94th SR-503 (117th)	1.12	800	460	0.58	5%	165	24						
		<b>7.19</b>		<b>1134</b>	<b>0.53</b>	<b>4%</b>	<b>1.24</b>	<b>990</b>	<b>26</b>	<b>7</b>	<b>32</b>	<b>90</b>	<b>35.6%</b>	<b>3.3%</b>
<b>Padden Parkway</b>														
	78th St. - Andresen Rd.	0.71	2400	760	0.32	3%	121	21						
	Andresen Rd. - I-205	0.41	2400	1626	0.68	4%	47	31						
	I-205 - 94th Av.	0.86	2400	2056	0.86	3%	116	27						
	94th Av. - SR 503 (117th)	1.12	2400	1738	0.72	3%	140	29						
	SR-503 - 137th Av.	0.99	2400	1273	0.53	3%	95	38						
	137th Av. - Ward Rd.	1.11	1200	831	0.69	3%	94	43						
		<b>4.49</b>		<b>2056</b>	<b>0.68</b>	<b>3%</b>	<b>1.24</b>	<b>492</b>	<b>33</b>					



99th Street Corridor													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	AM - Southbound/Westbound										
<b>99th Street</b>													
	Lake Shore Av. - NW 9th Av.	1.11	1100	740	0.67	2%	136	29					
	NW 9th Av. - Hazel Dell Av.	0.50	1800	765	0.43	2%	67	27					
	Hazel Dell Av. - I-5	0.37	1800	900	0.50	4%	62	21					
	I-5 - Hwy 99	0.22	1800	678	0.38	4%	28	28					
	Hwy 99 - 25th Ave.	0.49	1800	509	0.28	3%	81	22					
	25th Ave. - St. Johns Rd.	1.45	1200	447	0.37	2%	171	30					
		<b>4.13</b>		<b>900</b>	<b>0.48</b>	<b>3%</b>	<b>1.11</b>	<b>545</b>	<b>27</b>				

99th Street Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>99th Street</b>													
	Lake Shore Av. - NW 9th Av.	1.09	1100	886	0.81	2%	133	30					
	NW 9th Av. - Hazel Dell Av.	0.49	1800	1041	0.58	2%	68	26					
	Hazel Dell Av. - I-5	0.38	1800	1128	0.63	1%	90	15					
	I-5 - Hwy 99	0.22	1800	1244	0.69	2%	44	18					
	Hwy 99 - 25th Ave.	0.50	1800	853	0.47	2%	59	31					
	25th Ave. - St. Johns Rd.	1.43	1200	710	0.59	2%	176	29					
		<b>4.11</b>		<b>1244</b>	<b>0.64</b>	<b>2%</b>	<b>1.24</b>	<b>570</b>	<b>26</b>				



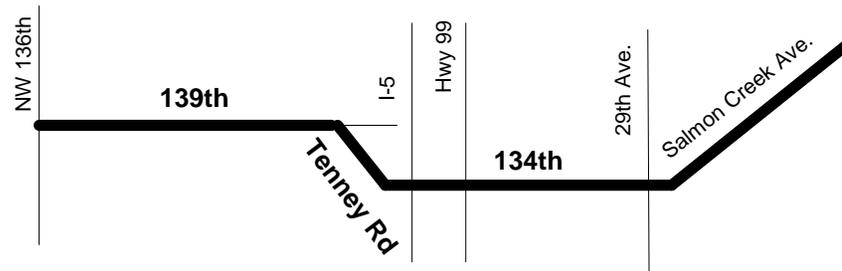
28th/18th Street Corridor														
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity	
	Length	Capacity	AM - Southbound/Westbound											
<b>28th Street</b>														
	Andresen Rd. - 86th Ave.	0.74	1200	679	0.57		96	28	30	74	120	61.7%		
	86th Ave. - 112th Ave.	1.37	800	742	0.93	3%	153	32						
	112th Ave. - 137th Ave.	1.32	800	855	1.07		217	22						
	137th Ave. - 164th Ave.	1.20	800	524	0.66	5%	198	22						
		<b>4.62</b>		<b>855</b>	<b>0.87</b>	<b>4%</b>	<b>1.11</b>	<b>665</b>	<b>25</b>	<b>30</b>	<b>74</b>	<b>120</b>	<b>61.7%</b>	<b>5.0%</b>
<b>18th Street</b>														
	112th Ave. - 137th Ave.	1.30	800	465	0.58	3%	383	12						
	137th Ave. - 164th Ave.	1.17	800	568	0.71	5%	199	21						
		<b>2.47</b>		<b>568</b>	<b>0.65</b>	<b>4%</b>	<b>1.11</b>	<b>582</b>	<b>15</b>					

28th/18th Street Corridor														
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity	
	Length	Capacity	PM - Nouthbound/Eastbound											
<b>28th Street</b>														
	Andresen Rd. - 86th Ave.	0.73	1200	711	0.59	2%	143	18	30	23	120	19.2%		
	86th Ave. - 112th Ave.	1.24	800	944	1.18	2%	319	14						
	112th Ave. - 137th Ave.	1.30	800	904	1.13	3%	319	15						
	137th Ave. - 164th Ave.	1.18	800	560	0.70	2%	341	12						
		<b>4.45</b>		<b>944</b>	<b>0.99</b>	<b>2%</b>	<b>1.24</b>	<b>1122</b>	<b>14</b>	<b>30</b>	<b>23</b>	<b>120</b>	<b>19.2%</b>	<b>10.0%</b>
<b>18th Street</b>														
	112th Ave. - 137th Ave.	1.30	800	635	0.79	2%	437	11						
	137th Ave. - 164th Ave.	1.17	800	772	0.97	2%	193	22						
		<b>2.47</b>		<b>772</b>	<b>0.88</b>	<b>2%</b>	<b>1.24</b>	<b>630</b>	<b>14</b>					



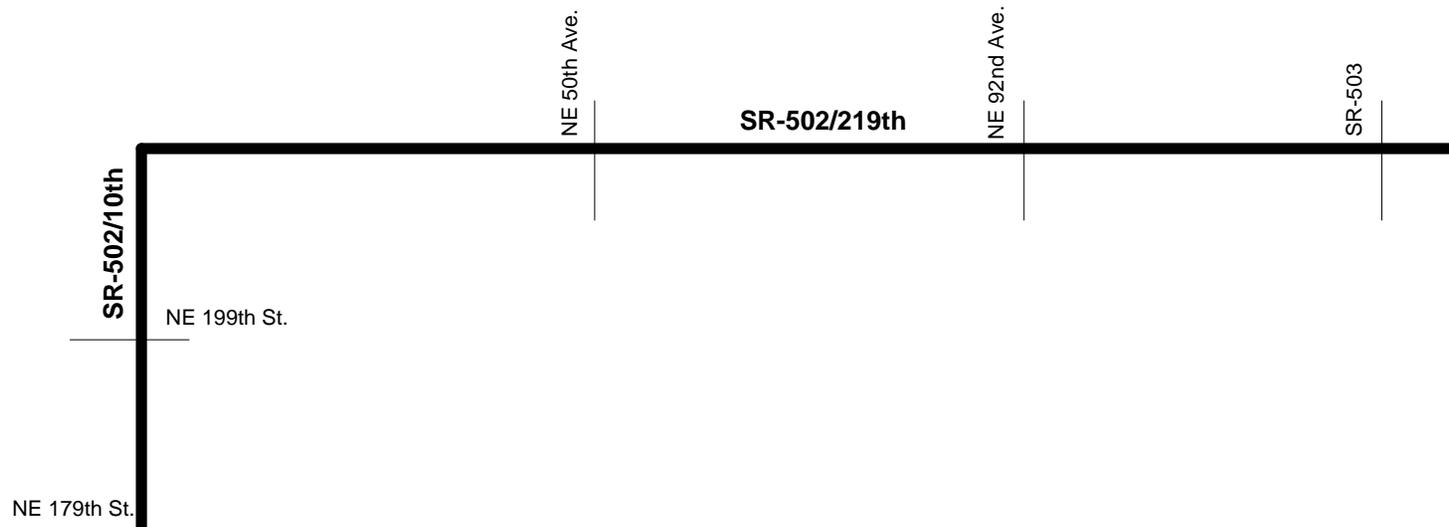
134th/139th Street Corridor													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	AM - Southbound/Westbound										
<b>134th St./139th St./Salmon Creek Ave.</b>													
	NW 36th Ave. - NW 11th Ave.	1.24	1200	592	0.49	3%	1.27	156	29				
	NW 11th Ave. - NE 10th Ave.	1.13	1800	993	0.55	6%		110	37	2	35	90	38.9%
	NE 10th Ave. - I-5	0.28	1800	999	0.56	5%		33	31				
	I-5 - I-205 NB Ramp	0.38	1800	900	0.50	5%		117	12				
	I-205 NB Ramp - Salmon Cr. Ave.	0.44	1800	490	0.27	4%		47	34				
	Salmon Cr. Ave. - 50th Ave.	1.42	1200	256	0.21	4%		121	42				
		<b>4.89</b>		<b>999</b>	<b>0.47</b>	<b>5%</b>	<b>1.27</b>	<b>584</b>	<b>30</b>	<b>2</b>	<b>35</b>	<b>90</b>	<b>38.9%</b>

134th/139th Street Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>134th St./139th St./Salmon Creek Ave.</b>													
	NW 36th Ave. - NW 11th Ave.	1.24	1200	1038	0.87	2%	1.27	130	34				
	NW 11th Ave. - NE 10th Ave.	1.13	1800	1396	0.78	2%		133	31	2	9	90	10.0%
	NE 10th Ave. - I-5	0.28	1800	1396	0.78	2%		48	21				
	I-5 - I-205 NB Ramp	0.38	1800	798	0.44	2%		115	12				
	I-205 NB Ramp - Salmon Cr. Ave.	0.44	1800	798	0.44	2%		49	32				
	Salmon Cr. Ave. - 50th Ave.	1.42	1200	205	0.17	1%		144	36				
		<b>4.89</b>		<b>1396</b>	<b>0.71</b>	<b>2%</b>	<b>1.27</b>	<b>619</b>	<b>28</b>	<b>2</b>	<b>9</b>	<b>90</b>	<b>10.0%</b>



SR-502/219th St. Corridor													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	AM - Southbound/Westbound										
<b>SR 502</b>													
	179th St. - 199th St.	0.98	800	757	0.95	5%	146	24					
	199th St. - 219th St.	0.99	800	640	0.80	8%	78	46					
	10th Ave. - 50th Ave.	1.96	800	478	0.60	7%	146	48					
	50th Ave. - 92nd Ave	1.97	800	475	0.59	6%	1.09	172	41				
	92nd Ave. - SR-503	1.51	1700	751	0.44	5%		135	40				
		<b>7.41</b>		<b>757</b>	<b>0.64</b>	<b>6%</b>	<b>1.09</b>	<b>677</b>	<b>39</b>				

SR-502/219th St. Corridor													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>SR 502</b>													
	179th St. - 199th St.	0.98	800	958	1.20	5%	91	39					
	199th St. - 219th St.	0.99	800	737	0.92	7%	83	43					
	10th Ave. - 50th Ave.	1.96	800	578	0.72	6%	152	46					
	50th Ave. - 92nd Ave	1.97	800	645	0.81	7%	1.22	204	35				
	92nd Ave. - SR-503	1.51	1800	1199	0.67	3%		171	32				
		<b>7.41</b>		<b>1199</b>	<b>0.82</b>	<b>6%</b>	<b>1.22</b>	<b>701</b>	<b>38</b>				



SR-501 & La Center Road Corridors													
AM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	AM - Southbound/Westbound										
<b>SR 501</b>													
I-5	- NW 31st Ave.	0.72	800	450	0.56	8%		58	45				
	NW 31st Ave. - 9th St.	1.79	800	297	0.37	7%		156	41				
		<b>2.51</b>		<b>450</b>	<b>0.44</b>	<b>8%</b>	<b>1.11</b>	<b>213</b>	<b>42</b>				
<b>La Center Rd.</b>													
I-5	- E. Fork Lewis Rv.	1.76	800	574	0.72	3%		127	50				
		<b>1.76</b>		<b>574</b>	<b>0.72</b>	<b>3%</b>	<b>1.11</b>	<b>127</b>	<b>50</b>				

SR-501 & La Center Road Corridors													
PM Peak	Segment		Traffic Volume	CCI	Truck Percent	AVO	Travel Time (Seconds)	Speed (MPH)	Transit Lines on CMS links	Transit Riders	Transit Seat Capacity	Transit Capacity Used	Transit Seats/Lane Capacity
	Length	Capacity	PM - Nouthbound/Eastbound										
<b>SR 501</b>													
I-5	- NW 31st Ave.	0.74	800	447	0.56	10%		60	45				
	NW 31st Ave. - 9th St.	1.77	800	298	0.37	7%		142	45				
		<b>2.51</b>		<b>447</b>	<b>0.44</b>	<b>9%</b>	<b>1.24</b>	<b>202</b>	<b>45</b>				
<b>La Center Rd.</b>													
I-5	- E. Fork Lewis Rv.	1.83	800	637	0.62	3%		150	44				
		<b>1.83</b>		<b>637</b>	<b>0.62</b>	<b>3%</b>	<b>1.24</b>	<b>150</b>	<b>44</b>				

