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Treasure Valley Annual Congestion Management System Report, 2009

Report No. 05-2010

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#### I. Introduction

In the spring of 2009, the Idaho Transportation Department (ITD) and the Community Planning Association of Southwest Idaho (COMPASS) collected travel time data on the highways and principle arterials of both Ada and Canyon Counties. Data collection occurs annually as part of the Treasure Valley Congestion Management System (CMS) and is used to quantify and identify trends in roadway congestion.

The purpose of this report is to help transportation and land use planning entities implement congestion management strategies and projects to improve travel time, particularly in areas of "High" congestion. Additionally, this document serves to fulfill the annual reporting commitment described in the *Treasure Valley Congestion Management System Plan*. It serves as an evaluation tool to measure "how we are doing" in way of managing congestion. The information in this report also serves as input into the project prioritization process for the annual update of the Regional Transportation Improvement Program, a five year budget for Federal transportation funding in the area.

The Treasure Valley Congestion Management System Plan, adopted by COMPASS Board with Resolution 10-2005 on March 21, 2005, outlines congestion management elements, travel time data collection process, use of the data, specific definitions for congestion and a "toolbox" of mitigation strategies. The plan is available at http://www.compassidaho.org/documents/prodserv/reports/TreasureValleyCMSFinal.pdf

### II. Background

The CMS is a process for collecting data and identifying congested transportation facilities with the intent of developing appropriate mitigation measures. This system will not eliminate congestion, but will instead slow down the rate at which it increases. Although Federal regulations provide general requirements for a CMS, Federal approval of the CMS is not required. Generally, a CMS should be designed to:

- Define and measure congestion
- Identify and evaluate congestion and its causes
- Identify and evaluate mitigation strategies
- Define implementation responsibilities
- Define an evaluation process
- Be included in all aspects of transportation planning.

In 1991, the Intermodal Surface Transportation Efficiency Act (ISTEA) required metropolitan planning organizations in Transportation Management Areas (TMAs) to implement a congestion management system. An urbanized area is designated a TMA when its population exceeds 200,000. The result of the 2000 Census defined the urbanized area in Northern Ada County as a TMA.

#### III. Travel Time Data Collection

ITD and COMPASS staff drive Treasure Valley interstates and principal arterials a minimum of four times in each direction during the AM peak (6:30 to 8:30 AM), then again during the PM peak (4:00 to 6:30 PM). The period with the highest average travel time is compared to the free flow, or ideal travel period (2:00 to 5:00 AM). A computer

program and strict driving procedures are utilized to ensure data reliability, reproducibility, and comparability. The ratio of peak travel time to free flow travel time is used to produce an index, which classifies congestion. This ratio is referred to as the Sanderson Index (SI). A SI of 2.0, for example, means that it takes twice as long to travel a given roadway during the peak or congested period as during free flow or ideal conditions. Analysis of the current and historic travel time of a given roadway yields information about trends in congestion on specific routes within cities, districts, or specific locations.

Data are not collected during any event which may affect the travel time. Notes are made regarding construction projects or delays encountered during data collection efforts. Data collection is postponed if nonrecurring delays, such as those caused by vehicle accidents, weather, events, and/or holidays are encountered. In extreme cases, data for some roadways are not collected that year due to construction occurring throughout the data collection campaign.

Using SI and the general roadway location, the Treasure Valley CMS defines low, medium, and high levels of congestion. Table 1 displays the Treasure Valley CMS definitions of congestion, which were established by local transportation experts. For classification purposes, urban roadways are located in Downtown Boise, Meridian, Nampa, and Caldwell.

**Table 1: Congestion Thresholds** 

Congestion Thresholds ( Based on SI 1 Values)									
Roadway Class	Low	Medium	High						
Freeway	< 1.25	1.25 – 1.50	> 1.50						
Suburban	< 1.75	1.75 – 2.25	> 2.25						
Urban	< 2.00	2.00 – 2.50	> 2.50						

Figure 1 and Figure 2 show the results of the 2009 travel time data collection effort by identifying the level of congestion as defined in the Treasure Valley CMS. To aid in the analysis of transportation corridors in Ada County, segment level travel time data are weighted on distance, summed, and reported<sup>2</sup>. This reporting method removes congestion "hot spots" along a corridor, giving a feel for how the entire corridor is functioning. This information can be found in Appendix A.

<sup>2</sup> The maps showing the weighted scores are not included in this year's report.

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<sup>&</sup>lt;sup>1</sup> Sanderson Index (SI) is a ratio of peak travel time to ideal travel time).

Figure 1: 2009 Ascending Congestion Map

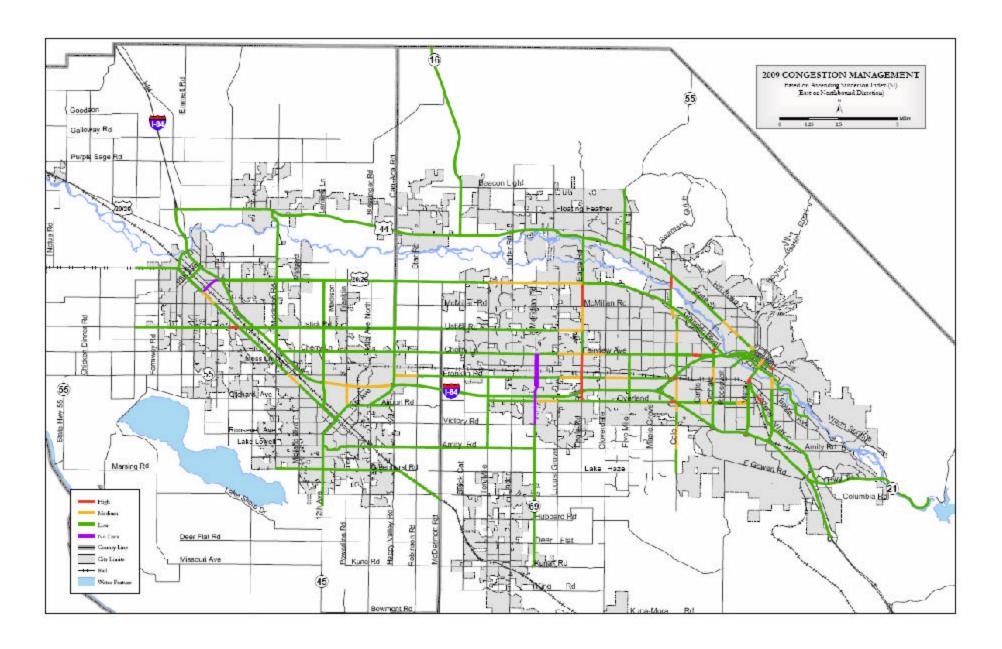
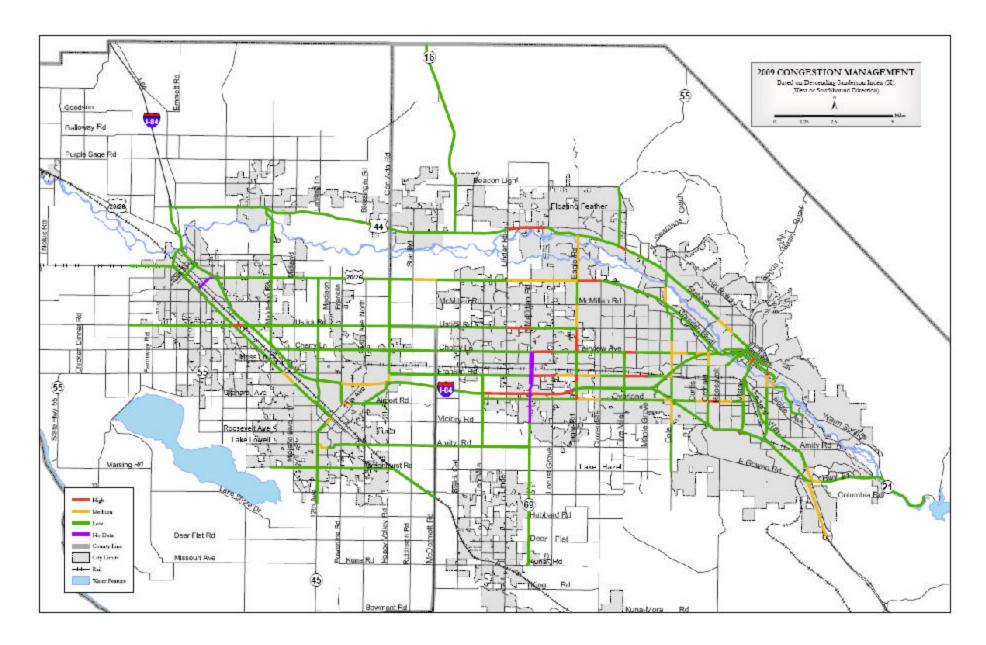


Figure 2: 2009 Descending Congestion Map



## Congested Facilities, 2009

The 2009 travel time data collection campaign began the first week of March and ended the last week of May. Table 2 lists roadway segments, by direction, that were identified in the "High" range based on the data collected in 2009. The percent change in SI represents the increase or decrease from 2008 to 2009. Some segments that show a decrease in travel time for 2009 are still classified in the "High" category.

Table 2: Treasure Valley Facilities Identified as Congestion Level "High" in 2009

"High" Congestion Roadways									
Road Name	Description	Direction	City	County	2009 SI	Percent Change in SI (2008 to 2009)			
Cherry Ln/ Fairview Ave	Locust Grove Rd to Main St	Westbound	Meridian	Ada	2.32	-19.33%			
Fairview Ave	Liberty St to Curtis Rd	Eastbound	Boise	Ada	3.34	13.22%			
Fairview Ave	Mitchell St to Five Mile Rd	Westbound	Boise	Ada	2.73	35.00%			
Fairview Ave/ Main St/Idaho St	1st St to Ave B	Eastbound	Boise	Ada	3.89	14.32%			
Federal Way	Overland Rd to Kootenai St	Northbound	Boise	Ada	2.30	39.81%			
Franklin Rd	Locust Grove Rd to Main St	Westbound	Meridian	Ada	4.30	104.99%			
Franklin Rd	Maple Grove Rd to Five Mile Rd	Westbound	Boise	Ada	2.48	12.29%			
Franklin Rd	Milwaukee St to Cole Rd	Eastbound	Boise	Ada	2.35	-7.18%			
I-84	Eagle Rd to Meridian Rd	Westbound	Meridian	Ada	2.26	24.32%			
I-84	Meridian Rd to Ten Mile Rd	Westbound	Meridian	Ada	1.65	30.85%			
Orchard St	Bond St to Chinden Blvd	Northbound	Boise	Ada	3.25	11.24%			
Overland Rd	Entertainment Ave to Cole Rd	Eastbound	Boise	Ada	2.39	-20.20%			
Overland Rd	Roosevelt St to Orchard St	Westbound	Boise	Ada	3.84	69.48%			
SH-44	Begin New Alignment to Linder Rd	Westbound	Eagle	Ada	2.40	-8.53%			
SH-44	Horseshoe Bend Rd to SH-55	Westbound	Boise	Ada	2.34	61.55%			
SH-44	State St to Marigold St	Southbound	Boise	Ada	2.54	19.54%			
SH-55	Franklin Rd to Fairview Ave	Northbound	Meridian	Ada	2.64	-16.47%			
SH-55	Franklin Rd to St Lukes Ln	Southbound	Meridian	Ada	2.80	25.40%			
SH-55	I-84 EB Ramps to Overland Rd	Southbound	Meridian	Ada	4.99	ND 2008			
SH-55	I-84 EB Ramps to St Lukes Ln	Northbound	Meridian	Ada	2.52	-23.74%			
SH-55	McMillan Rd to Chinden Blvd	Northbound	Boise	Ada	2.32	27.03%			
SH-55	Overland Rd to I-84 EB Ramps	Northbound	Meridian	Ada	2.63	ND 2008			
SH-55	St Lukes Ln to Franklin Rd	Northbound	Meridian	Ada	3.45	3.31%			
SH-55	Ustick Rd to Fairview Ave	Southbound	Meridian	Ada	2.26	22.23%			
US-20/26	Cloverdale Rd to Eagle Rd	Westbound	Boise	Ada	2.94	-11.63%			
US-20/26 (Broadway Ave)	Myrtle St to Front St	Southbound	Boise	Ada	4.73	33.63%			
Ustick Rd	Lake Ave to Caldwell Blvd	Eastbound	Caldwell	Canyon	2.38	56.42%			
Ustick Rd	Meridian Rd to Linder Rd	Westbound	Meridian	Ada	2.84	ND 2008			
Ustick Rd	RR Crossing to Caldwell Blvd	Westbound	Caldwell	Canyon	2.95	26.63%			
Vista Ave/ Capitol Blvd/ 9th St	Eastover Rd to University Dr	Northbound	Boise	Ada	2.87	48.60%			
Vista Ave/ Capitol Blvd/ 9th St	I-84 EB Ramps to Wright St	Southbound	Boise	Ada	3.95	-13.77%			
Vista Ave/Capitol Blvd/9th St	Main St to Myrtle St	Southbound	Boise	Ada	6.41	-7.04%			
Vista Ave/Capitol Blvd/9th St	Wright St to I-84 EB Ramps	Northbound	Boise	Ada	4.31	104.65%			

#### IV. **Congestion Analysis**

Only seven years of historic travel time data are available 2003 through 2009. Therefore, identifying any segment level trends in congestion is difficult. However, data collected from 2003 through 2008 were compared to the 2009 data. Table 3 displays those roadways consistently identified in the "High" congestion range since data collection began in 2003.

Table 3: Treasure Valley Facilities Identified as Congestion Level "High" Since 2003

	Consistently "High" Congestion Roadways										
Road Name	Description	Direction	City	County	2009 SI	Percent Change in SI (2008 to 2009)					
Fairview Ave/ Main St/Idaho St	1st St to Ave B	Eastbound	Boise	Ada	3.89	14.32%					
Vista Ave/ Capitol Blvd/9th St	Main St to Myrtle St	Southbound	Boise	Ada	6.41	-7.04%					

Table 4 below displays the amount and level of congestion identified by the Treasure Valley CMS for all seven years. In 2006, approximately 68 miles of roadway were added to the data collection effort. Over 13 miles of roadways added to the data collection effort in 2006 were under construction at that time and were not included in the "No Data" calculation for 2006. However, these roadway segments were sampled in 2007, which accounts for the difference in "Total Miles" from 2006 to 2007.

Table 4: 2003 - 2009 Congestion Comparison, Treasure Valley

	Ascending (East or Northbound) Travel											
Year	High		Medium			Low	No	Data	Total Miles			
Teal	Miles	Percent	Miles	Percent	Miles Percent		Miles	Percent	Total Miles			
2003	7.8	5.1%	10.1	6.6%	129.6	85.0%	5.0	3.3%	152.5			
2004	8.6	4.6%	11.9	6.4%	164.5	88.9%	0.0	0.0%	185.0			
2005	14.3	7.8%	18.2	9.9%	151.4	82.3%	0.0	0.0%	183.9			
2006	15.3	6.0%	17.0	6.7%	194.4	76.1%	28.7	11.2%	255.4			
2007 <sup>3</sup>	14.9	5.5%	11.6	4.3%	202.1	75.2%	40.2	15.0%	268.8			
2008	8.5	3.2%	19.6	7.4%	234.6	88.6%	2.0	0.8%	264.6			
2009	6.3	2.3%	24.5	9.1%	235.0	86.8%	4.8	1.8%	270.6			

<sup>3</sup> Travel time data was not collected on I-84 due to the construction, corresponding construction zones speed limit reductions and in some cases lane closures from the Linden Street bridge rehabilitation project, Exit 29 reconstruction project, and construction of a new Locust Grove overpass.

	Descending (West or Southbound) Travel											
Year	High		Medium			Low	No	Data	Total Miles			
real	Miles	Percent	Miles	Percent	Miles	Percent	Miles	Percent	Total Miles			
2003	7.2	4.8%	27.3	18.1%	111.7	73.9%	5.0	3.3%	151.2			
2004	1.0	0.5%	8.5	4.6%	175.8	94.8%	0.1	0.1%	185.4			
2005	9.8	5.3%	16.3	8.8%	159.7	86.0%	0.0	0.0%	185.8			
2006	23.4	9.1%	16.4	6.4%	187.7	72.9%	29.8	11.6%	257.3			
2007	18.9	6.9%	25.7	9.4%	185.0	67.9%	42.7	15.7%	272.3			
2008	11.4	4.3%	38.6	14.5%	214.6	80.8%	1.1	0.4%	265.7			
2009	13.9	5.1%	26.4	9.7%	227.0	83.6%	4.4	1.6%	271.7			

Table 5, on the next page, lists those facilities where congestion levels changed by more than 50%. Based on the notes made during data collection and input provided by Treasure Valley transportation agencies, potential reasons for the observed changes in congestion were identified. If a potential reason is not given, the change, it is assumed, is attributed to the variation inherent in the data collection process. Appendix B, Table B-15 and Table B-16, list roadway segments with a greater than 20% increase or decrease in congestion. However, potential reasons are not specifically identified.

Table 5: Changes in Congestion (SI) Levels Greater than 50% between 2008 and 2009

	Changes in	Congestion (S	SI) Levels G	reater than	50% betwee	en 2008 and 2009
Route	Description	Direction	City	County	Percent Change in SI	Potential Reason(s) <sup>4</sup>
				in Congestio		
US-20/26	I-84 EB off ramp to I-84 WB ramps	Eastbound	Caldwell	Canyon	-73.71%	Completion of Exit 29 Reconstruction – widened overpass to 6 lanes and replaced temporary signals.
US-20/26	I-84 WB ramps to I-84 EB off ramp	Westbound	Caldwell	Canyon	-69.77%	Completion of Exit 29 Reconstruction – widened overpass to 6 lanes and replaced temporary signals.
Vista Ave/ Capitol Blvd/ 9th St	State St to Main St	Southbound	Boise	Ada	-58.53%	Improved Signal Timing
Fairview Ave	Milwaukee St to Cole Rd	Eastbound	Boise	Ada	-52.97%	Improved Signal Timing
			Increase	in Congestion	า	
Fairview Ave/ Main St/ Idaho St	Ave B to 1st St	Westbound	Boise	Ada	105.32%	Short section (~500 feet), pedestrian crossing light may have been activated.
Franklin Rd	Locust Grove Rd to Main St	Westbound	Meridian	Ada	104.99%	Meridian Split Corridor Construction
Vista Ave/ Capitol Blvd/ 9th St	Wright St to I-84 EB Ramps	Northbound	Boise	Ada	104.65%	I-84 Interchange Construction
Franklin Rd	Eagle Rd to Locust Grove Rd	Westbound	Meridian	Ada	71.41%	Meridian Split Corridor Construction
Franklin Rd	Locust Grove Rd to Eagle Rd	Eastbound	Meridian	Ada	70.34%	Meridian Split Corridor Construction
Overland Rd	Roosevelt St to Orchard St	Westbound	Boise	Ada	69.48%	I-84 Construction
IB-84	7th Ave to SH-55 (Northside Blvd)	Westbound	Nampa	Canyon	67.05%	Intersection reconstruction at Canyon St
Franklin Blvd	11th Ave N to I-84 WB Ramps	Northbound	Nampa	Canyon	64.11%	Construction on Franklin Rd
State St	Veterans Parkway to 27th St	Eastbound	Boise	Ada	61.62%	
SH-44	Horseshoe Bend Rd to SH-55	Westbound	Boise	Ada	61.55%	Major overlay project underway – reduced speed limit and some lane restrictions
IB-84	7th Ave to 11 <sup>th</sup> Ave	Eastbound	Nampa	Canyon	60.55%	Non-interconnected signals - City of Nampa manually resets timing every two weeks.
Vista Ave/ Capitol Blvd/ 9th St	Kootenai St to Overland Rd	Southbound	Boise	Ada	58.83%	
Ustick Rd	Lake Ave to Caldwell Blvd	Eastbound	Caldwell	Canyon	56.42%	
Cole Rd	Northview St to Ustick Rd	Northbound	Boise	Ada	55.80%	
US-20/26	Ten Mile Rd to Linder Rd	Eastbound	Meridian	Ada	55.79%	Activation of new traffic signal at Long Lake (1/2 mile east of Ten Mile Rd)
Fairview Ave	Eagle Rd to Cloverdale Rd	Eastbound	Meridian	Ada	52.14%	

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<sup>&</sup>lt;sup>4</sup> Potential reasons for changes in travel time offered by Canyon County Highway District, city, ACHD, or ITD technical staff.

#### V. Congestion Mitigation

Developing applicable congestion mitigation measures to address specific areas of congestion is delegated to each transportation agency in the Valley. However, the Treasure Valley CMS does provide some guidance on mitigation measures to local transportation agencies in the form of a "Toolbox." The "Toolbox" is presented in Table 6. With only seven years worth of travel time data collected and only a handful of projects identified, an evaluation of the "Toolbox" is not feasible. As more data are collected, quantitative and/or qualitative evaluations of the "Toolbox" may be possible.

Table 6: Treasure Valley CMS "Toolbox"

	CMS "Toolbox" - Congestion Mitigation Strategy Categories										
Timeframe	Area Wide	Corridor / Project Specific									
Short Term (Within 5 Years)	<ul> <li>Access Management policies for all congested roadways</li> <li>Zoning Ordinance Standards</li> </ul>	<ul> <li>Intelligent Transportation Systems</li> <li>Intelligent Transportation Systems</li> <li>Additional Roadway Capacity</li> </ul>									
	□ Employer Based Strategies	Non-Motorized Mode Improvements									
	<ul> <li>Access Management policies for all</li> </ul>	Intersection Improvements									
	developments along congested roadways	Preferential Based Strategies									
		New or increased access to transit									
		<ul><li>Non-Motorized Mode Improvements</li></ul>									
Long Term (Greater than 5 Years)	☐ Comprehensive Plan land use strategies	Additional Roadway Capacity listed in regional long-range plan									
rears)	<ul> <li>Intermodal Project integration/design</li> <li>New or increased access to transit</li> <li>Additional transit services</li> </ul>	<ul> <li>Addition of transit oriented fixed-guide way</li> </ul>									

Implementing Agency Legend (note: the current draft only applies to roadway congestion):

- Roadway Agencies (Ada County Highway District (ACHD), Idaho Transportation Department (ITD), all cities and highway districts in Canyon County, and some cities in Ada County)
- > Transit Providers (Valley Regional Transit and ACHD Commuteride)
- ☐ City and County Level Governments

#### Land Use Agencies

A few land use agencies have adopted roadway access management ordinances. The City of Kuna's Access Management Ordinance (Ordinance 624, 12-16-2002) limits the number and use of access on State Highway 69 to existing residential and/or agricultural uses and those needed to provide emergency services. Caldwell Ordinance number 2556 defines the acceptable types of roadway access within the city limits and area of impact. It specifically limits the type of access on State Highway 19 (Simplot Blvd. and Centennial Way), State Highway 55 (Karcher Rd.), US Highway 20/26, and portions of the Interstate 84 Business Route (Blaine St./Cleveland Blvd). Meridian adopted a roadway access management ordinance for the interstates and state highways in September 2005. This includes portions of Interstate 84, US Highway 20/26 (Chinden Rd.), State Highway 69, and State Highway 55 (Eagle Rd.). Currently, City of Nampa's access management ordinance is draft and will be included in the *City of Nampa's Master Transportation Plan*.

During 2008, some new efforts took place that would have an impact on congestion. As part of the US Highway 20/26 Corridor Preservation Study, an access management plan was developed and accepted by the COMPASS Board. The Idaho Transportation Department and local government agencies are still in the process of adopting this plan, and a similar plan for State Highway 44 is being developed. Ada County Highway District is working on updating its access management rules in cooperation with a committee consisting of developers and local fire departments. The City of Boise is researching the process of developing an access management ordinance. The City of Middleton is working with Canyon County and the Canyon Highway District on an access management plan and related strategies.

#### <u>Transportation Projects</u>

As part of the Transportation Improvement Program (TIP) development process, projects are ranked according to various criteria. The new TIP Prioritization Process, approved in September 2009, assigns points to project in the criteria area of "Congestion Mitigation". Project scores in this criterion are based on the threshold in which it has been placed in the CMS for the last three years. Non-roadway construction projects are given additional consideration depending on the type of improvement being made. Table 7 below displays the scoring criteria for roadway projects as an example for how the CMS process is integrated.

Table 7: Transportation Improvement Program (TIP) CMS Project Ranking

Scoring Guidelines for Roadways								
Criterion	Assessment	Score						
Congestion Mitigation	Project will mitigate congestion and includes segment in the high congestion category for the last three years.	10						
Congestion as related to the Congestion Management Process (CMP)	Project will mitigate congestion and includes segment in the high congestion category for the current year.	7						
Applicant must demonstrate	Project will mitigate congestion and includes segment in the medium congestion category for the current year.	4						
congestion mitigation.	Project will mitigate congestion and includes segment in the low congestion category for the current year.	2						
	Not classified as congested in the CMP consistently over the last three years.	0						

Using the current regional long-range transportation plan, *Communities in Motion* (CIM), a qualitative analysis of travel time impacts associated with growth was performed. A few corridors were selected from those mentioned in CIM to see how these corridors have functioned in way of changes in travel time since data collection began. Some complete corridors were not run. In these cases, the segments that were included in this analysis are indicated. The years displayed represent the early years of collection (2003 and 2004), the peak year in new construction in the Valley (2005), last year and the current year. All times in table 8 represent the average of the ascending and descending times along the corridors indicated. The major increase in travel time on I-84 is due to construction which began or continued during the 2009 survey.

Table 8: Communities in Motion Corridor Analysis (All Times in Minutes)

Road Name	Location	Full Corridor Available	Route That Is Available	2003 Time	2004 Time	2005 Time	2008 Time	2009 Time
Five Mile Rd	Lake Hazel Rd to US 20/26	No	Fairview Ave to Overland Rd	5.70	5.56	9.13	6.42	5.72
I-184	Wye Interchange to 13th St	Yes		6.62	6.18	6.21	6.94	5.90
I-84	US 20/26 to Gowen Rd	Yes		29.93	30.26	30.85	32.73	38.52
SH-45	2nd St S to the City of Melba	No	2nd St S to Ruth Ln	9.59	8.49	10.08	9.19	9.13
SH-55 (Eagle Rd)	Boise County Line to I-84	Yes		15.91	17.18	20.31	19.35	19.58
US 20/26	I-84 in Caldwell to I-84 in Boise	Yes	Data is incomplete in 2003.	-	46.47	55.63	55.48	52.16

#### VI. Conclusion

As part of the Treasure Valley CMS, 2009 travel time data were collected and analyzed to classify congestion on interstate and principal arterial roadways in the Treasure Valley. A fraction of these roadways were identified as highly congested for 2009. The number of roadway segments identified as "High" congestion increased slightly from 30 to 33 during the period between 2008 and 2009. The 33 "High" congestion segments are still far below the 46 segments classified as "High" in 2007. Comparisons between current and historic data sets show some change in congestion classifications (Table 4 and Table 5). Although more travel time data needs to be collected before trends in congestion and congestion mitigation can be assessed, it appears that signalization improvements, changes in land use, and completion of roadway construction projects contributed to improved travel times. Another additional potential source for the decrease from 2007 numbers in "high" level congestion could be associated with the economic downturn and the reduction in construction related travel. Further analysis will be needed to see how well this trend correlated with the downturn. Travel time forecasts produced by COMPASS' travel demand model indicate travel times are likely to increase on Treasure Valley interstates and principal arterials over the next 21 years.

#### VII. Summary

This document fulfills the annual reporting commitment of the Treasure Valley CMS. It evaluates how well congestion is managed and provides congestion data to entities that design and develop roadway projects and congestion mitigation measures.

As part of the annual reporting process, travel time data for 2009 were collected on the interstate and principal arterial roadways of the Treasure Valley. These data were converted to travel time indices (SI), which were used to classify the level of congestion encountered. Significant changes in congestion classification were noted and possible reasons for these changes obtained from local transportation and land use agencies. The 2009 congestion levels were compared to those encountered in

2003 through and 2008. The amount of congestion data available does not allow for a reliable quantitative evaluation of congestion mitigation measures included in the CMS "Toolbox". However, a qualitative analysis using forecasted travel times indicates that, as the valley continues to grow, travel times and congestion are likely to increase, despite planned roadway capacity expansions.

VIII. Appendix A: Detailed 2009 Travel Time Data

Table A- 1: Ascending Data

	Asc	cending (Eas	t or Northboun	d) Travel	Time Data, 2	009			
Name	Description	Distance	Congested Time	Ideal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average
10th Ave	Cleveland Blvd to Chicago St	0.42	80.07	74.86	43.61	1.07	1.72	1.21	1.51
10th Ave	Chicago St to I-84 WB Ramps	0.47	73.06	55.25	48.24	1.32	1.15		
21st Ave	Cleveland Blvd to Chicago St	0.43	ND	61.66	51.24		1.20	ND	1.69
21st Ave	Chicago St to Franklin Rd	0.32	ND	39.3	32.71		1.20		
21st Ave	Franklin Rd to I-84 EB Ramps	0.17	ND	66.43	17.18		3.87		
Airport Rd	Garrity Blvd to Happy Valley Rd	1.03	141.59	111.86	106.15	1.27	1.05	1.20	1.05
Americana Blvd/ 15th St/ 16th St	Emerald St to Shoreline Dr	0.08	93.16	64.63	64.80	1.44	1.00	1.58	1.17
Americana Blvd/ 15th St/ 16th St	Shoreline Dr to Main St	1.28	103.09	72.68	61.68	1.42	1.18		
Americana Blvd/ 15th St/ 16th St	Main St to State St	0.26	81.13	56.21	31.20	1.44	1.80		
Amity Rd	SH-45 to Holly St	0.66	70.91	58.63	67.68	1.21	0.87	1.27	1.05
Amity Rd	Holly St to S Powerline Rd	0.35	89.95	74.52	69.49	1.21	1.07		
Amity Rd	S Powerline Rd to South Side Blvd	1.02	118.43	103.78	104.40	1.14	0.99		
Amity Rd	South Side Blvd to Happy Valley Rd	1.00	128.13	118.13	102.86	1.08	1.15		
Amity Rd	Happy Valley Rd to Robinson Rd	0.96	125.86	89.8	73.53	1.40	1.22	1.12	1.13
Amity Rd	Robinson Rd to McDermott Rd	1.09	78.24	78.18	78.55	1.00	1.00		
Amity Rd	McDermott Rd to Black Cat Rd	0.93	73.60	75.62	66.89	0.97	1.13		
Amity Rd	Black Cat Rd to Ten Mile Rd	1.00	84.05	81.88	72.00	1.03	1.14		
Amity Rd	Ten Mile Rd to Linder Rd	1.00	94.44	83.16	72.00	1.14	1.16		
Amity Rd	Linder Rd to SH-69	1.01	138.63	99.76	72.72	1.39	1.37		
Can-Ada Rd (Idaho Center Blvd)	I-84 WB Ramps to Franklin Rd	0.35	50.39	35.43	35.49	1.42	1.00	1.22	1.07
Can-Ada Rd (Idaho Center Blvd)	Franklin Rd to Cherry Ln	1.10	121.63	107.56	113.45	1.13	0.95		
Can-Ada Rd	Cherry Ln to Ustick Rd	1.00	98.07	85.53	71.93	1.15	1.19		
Can-Ada Rd	Ustick Rd to McMillan Rd	1.00	80.67	77.92	72.22	1.04	1.08		
Can-Ada Rd	McMillan Rd to US-20/26	1.01	114.03	79.19	72.72	1.44	1.09		
Cherry Ln	Middleton Rd to Midland Blvd	1.15	111.68	109.41	92.00	1.02	1.19	1.08	1.09
Cherry Ln	Midland Blvd to Northside Blvd	1.02	106.72	101.08	81.60	1.06	1.24		
Cherry Ln	Northside Blvd to Franklin Rd	1.03	100.03	91.81	82.40	1.09	1.11		
Cherry Ln	Franklin Rd to 11th Ave N	1.03	92.23	84.71	82.40	1.09	1.03		
Cherry Ln	11th Ave N to Can-Ada Rd	1.03	101.96	85.82	82.40	1.19	1.04		
Cherry Ln	Can-Ada Rd to Star Rd	1.00	101.22	88.33	80.00	1.15	1.10		
Cherry Ln	Star Rd to McDermott Rd	0.91	87.51	84.22	72.48	1.04	1.16		

	Aso	cending (Eas	st or Northboun	d) Travel	Time Data,	2009			
Name	Description	Distance	Congested Time	I deal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average
Cherry Ln	McDermott Rd to Black Cat Rd	1.15	99.09	94.76	103.05	1.05	0.92		
Cherry Ln/Fairview Ave	Black Cat Rd to Ten Mile Rd	1.01	157.53	110.01	103.89	1.43	1.06	1.43	1.05
Cherry Ln/Fairview Ave	Ten Mile Rd to Linder St	1.02	137.13	111.31	104.91	1.23	1.06		
Cherry Ln/Fairview Ave	Linder St to Main St	1.12	181.21	124.14	114.79	1.46	1.08		
Cherry Ln/Fairview Ave	Main St to Locust Grove Rd	0.85	113.54	88.35	87.63	1.29	1.01		
Cole Rd	Emerald St to Fairview Ave	0.49	94.88	100.18	50.19	0.95	2.00	1.57	1.22
Cole Rd	Fairview Ave to Northview St	0.51	96.76	59.49	52.66	1.63	1.13	•	
Cole Rd	Northview St to Ustick Rd	0.54	107.04	60.8	55.85	1.76	1.09		
Cole Rd	Ustick Rd to Mountain View Dr	0.60	84.03	74.2	62.13	1.13	1.19		
Cole Rd	Mountain View Dr to Chinden Blvd	0.61	193.03	87.59	73.20	2.20	1.20		
Cole Rd	Latigo Dr to Amity Rd	0.99	121.16	103.93	101.83	1.17	1.02	1.56	1.05
Cole Rd	Amity Rd to Victory Rd	1.01	203.26	109.13	103.89	1.86	1.05	50	
Cole Rd	Victory Rd to S Costco/Century Way	0.58	66.67	60.95	59.35	1.09	1.03		
Cole Rd	S Costco/Century Way to Overland Rd	0.42	104.79	51.93	43.51	2.02	1.19		
Cole Rd	Overland Rd to Franklin Rd	1.00	233.57	112.87	102.55	2.07	1.10		
Cole Rd	Franklin Rd to Emerald St	0.52	77.45	58.64	53.38	1.32	1.10		
Fairview Ave	Locust Grove St to Eagle Rd	1.00	192.56	95.58	91.48	2.01	1.04	1.65	1.06
Fairview Ave	Eagle Rd to Cloverdale Rd	1.01	178.36	95.31	90.90	1.87	1.05		
Fairview Ave	Cloverdale Rd to Five Mile Rd	1.01	130.26	92.53	90.90	1.41	1.02		
Fairview Ave	Five Mile Rd to Mitchell St	0.39	66.36	53.26	50.50	1.25	1.05		
Fairview Ave	Mitchell St to Maple Grove Rd	0.52	89.31	53.91	53.38	1.66	1.01		
Fairview Ave	Maple Grove Rd to Milwaukee St	0.50	68.23	52.92	51.22	1.29	1.03	1.59	1.10
Fairview Ave	Milwaukee St to Cole Rd	0.51	53.44	58.88	52.05	0.91	1.13	<u>'</u>	
Fairview Ave	Cole Rd to Liberty St	0.66	89.89	70.31	67.37	1.28	1.04		
Fairview Ave	Liberty St to Curtis Rd	0.38	138.61	41.49	39.09	3.34	1.06		
Fairview Ave	Curtis Rd to Orchard St	0.56	78.67	58.92	52.56	1.34	1.12		
Fairview Ave/Main St/Idaho St	W End Boise River Br to 27 <sup>th</sup> St	0.29	44.10	28.43	30.24	1.55	0.94	1.45	1.23
Fairview Ave/Main St/Idaho St	27th St to 23rd St	0.28	31.83	47.93	28.80	0.66	1.66	-	
Fairview Ave/Main St/Idaho St	23rd St to 16th St	0.24	38.79	33.55	26.13	1.16	1.28		
Fairview Ave/Main St/Idaho St	16th St to 13th St	0.21	55.63	54.8	25.20	1.02	2.17		
Fairview Ave/Main St/Idaho St	13th St to 9th St	0.29	66.60	35.03	34.80	1.90	1.01		
Fairview Ave/Main St/Idaho St	9th St to 5th St	0.28	61.90	37.87	33.60	1.63	1.13		
Fairview Ave/Main St/Idaho St	5th St to 1st St	0.30	41.59	36.53	36.00	1.14	1.01		

	Aso	cending (Eas	st or Northbour	nd) Travel	Time Data,	2009			
Name	Description	Distance	Congested Time	I deal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average
Fairview Ave/Main St/Idaho St	1st St to Ave B	0.15	91.22	23.47	18.00	3.89	1.30		
Federal Way	SH-21 to Yamhill Rd	0.57	76.09	55.64	51.30	1.37	1.08	1.39	1.03
Federal Way	Yamhill Rd to Amity Rd	0.85	91.13	71.16	68.00	1.28	1.05		
Federal Way	Amity Rd to Bergeson St	1.00	115.42	75.81	80.00	1.52	0.95		
Federal Way	Bergeson St to Broadway Ave	0.76	109.69	78.5	68.22	1.40	1.15		
Federal Way	Broadway Ave to Overland Rd	1.16	108.29	103.35	104.67	1.05	0.99		
Federal Way	Overland Rd to Kootenai St	0.35	73.15	31.78	31.59	2.30	1.01		
Federal Way	Kootenai St to Vista Ave/Eastover Rd	0.67	85.67	64.06	60.12	1.34	1.07		
Five Mile Rd	Overland Rd to Franklin Rd	1.02	153.03	119.1	104.81	1.28	1.14	1.45	1.13
Five Mile Rd	Franklin Rd to Fairview Ave	1.03	171.38	124.27	106.15	1.38	1.17		
Franklin Blvd	11th Ave N to I-84 WB Ramps	0.94	193.86	94.91	85.26	2.04	1.11	1.78	1.13
Franklin Rd	Main St to Locust Grove Rd	0.98	144.33	94.41	87.84	1.53	1.07	2.18	1.07
Franklin Rd	Locust Grove Rd to Eagle Rd	1.01	202.43	95.84	81.04	2.11	1.18		
Franklin Rd	Eagle Rd to Cloverdale Rd	1.06	130.23	90.11	84.72	1.45	1.06		
Franklin Rd	Cloverdale Rd to Five Mile Rd	1.01	149.67	85.61	80.80	1.75	1.06	1.77	1.05
Franklin Rd	Five Mile Rd to Maple Grove Rd	1.01	128.62	86.29	84.23	1.49	1.02		
Franklin Rd	Maple Grove Rd to Milwaukee St	0.65	95.58	72.02	66.86	1.33	1.08		
Franklin Rd	Milwaukee St to Cole Rd	0.36	90.08	38.36	37.03	2.35	1.04		
Franklin Rd	Can-Ada Rd (Idaho Center Blvd) to Star Rd	0.99	188.47	90.32	78.80	2.09	1.15	1.33	1.17
Franklin Rd	Star Rd to McDermott Rd	1.01	86.68	85.04	79.84	1.02	1.07		
Franklin Rd	McDermott Rd to Black Cat Rd	1.00	89.60	79.63	72.22	1.13	1.10		
Franklin Rd	Black Cat Rd to Ten Mile Rd	1.00	101.66	82.89	71.93	1.23	1.15		
Franklin Rd	Ten Mile Rd to Linder Rd	1.00	110.95	87.87	72.29	1.26	1.22		
Franklin Rd	Linder Rd to Main St	1.10	203.88	128.55	78.55	1.59	1.64		
Greenhurst Rd	Middleton Rd to Midland Blvd	1.00	103.20	91.08	80.00	1.13	1.14	1.13	1.13
Greenhurst Rd	Midland Rd to 12th Ave Rd	1.00	166.79	116.39	103.17	1.43	1.13		
Greenhurst Rd	12th Ave Rd to Sunnyridge Rd	0.50	70.63	53.98	51.74	1.31	1.04		
Greenhurst Rd	Sunnyridge Rd to S Powerline Rd	0.49	73.33	59.25	50.81	1.24	1.17		
Greenhurst Rd	S Powerline Rd to Southside Blvd	1.01	127.16	115.74	104.19	1.10	1.11		
Greenhurst Rd	Southside Blvd to Happy Valley Rd	1.00	133.73	129.65	102.86	1.03	1.26		
Greenhurst Rd	Happy Valley Rd to Robinson Rd	1.14	113.42	111.54	102.60	1.02	1.09		
Greenhurst Rd	Robinson Rd to McDermott Rd	1.22	104.82	101.96	97.60	1.03	1.04		

	As	cending (Eas	st or Northboun	d) Travel	Time Data, 2	2009			
Name	Description	Distance	Congested Time	I deal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average
I-184	Jct I-84 to Franklin Rd	1.08	68.64	71.68	70.95	0.96	1.01	0.99	1.01
I-184	Franklin Rd to Curtis Rd	1.46	98.71	97.22	95.30	1.02	1.02		
I-184	Curtis Rd to Orchard St	0.55	34.51	34.44	36.00	1.00	0.96		
I-184	Orchard St to Chinden Blvd	0.50	33.54	34.11	32.73	0.98	1.04		
I-84	Franklin Blvd to Garrity IC	1.96	160.38	108.55	108.55	1.48	1.00	1.23	1.00
I-84	Garrity IC to Ten Mile Rd	4.06	318.64	265.42	265.42	1.20	1.00		
I-84	Hwy 44 to US 20/26	1.16	61.88	63.97	63.97	0.97	1.00	1.07	1.00
I-84	US 20/26 to IB-84	0.73	42.59	40.38	40.38	1.05	1.00		
I-84	IB-84 to 10th St	0.90	50.28	49.68	49.68	1.01	1.00		
I-84	10th St to US -20/26	1.03	60.79	57.05	57.05	1.07	1.00		
I-84	US-20/26 to Nampa Blvd	6.31	368.40	349.7	349.70	1.05	1.00		
I-84	Nampa Blvd to Franklin Blvd	1.02	81.23	56.55	56.55	1.44	1.00		
I-84	Ten Mile Rd to Meridian Rd	2.01	136.23	131.37	131.37	1.04	1.00	1.47	1.00
I-84	Meridian Rd to Eagle Rd	1.99	122.87	130.32	130.32	0.94	1.00		
I-84	Eagle Rd to Five Mile Rd	2.04	116.50	112.51	113.21	1.04	0.99	1.12	0.99
I-84	Five Mile Rd to Overland Rd	2.10	122.09	115.69	116.20	1.06	1.00		
I-84	Overland Rd to Orchard St	1.86	116.71	101.55	105.37	1.15	0.96		
I-84	Orchard St to Vista Ave	1.49	96.89	80.55	82.30	1.20	0.98	1.16	0.99
I-84	Vista Ave to Broadway Ave	1.00	61.38	55.81	55.50	1.10	1.01		
I-84	Broadway Ave to Gowen Rd	2.45	141.41	121.78	121.26	1.16	1.00		
I-84	Gowen Rd to Eisenman Rd	2.58	133.83	122.66	123.74	1.09	0.99		
IB-84	11th/3rd St to Garrity/Franklin Blvd	0.86	121.86	87.99	87.94	1.38	1.00	1.36	1.19
IB-84	Garrity/Franklin Blvd to 16 <sup>th</sup> Ave	0.33	54.13	37.24	33.53	1.45	1.11		
IB-84	16th Ave to Flamingo Ave	1.66	235.17	175.83	149.36	1.34	1.18		
IB-84	Flamingo Ave to I-84 WB Ramps	0.29	43.11	30.11	23.20	1.43	1.30		
IB-84	Homedale Rd to Middleton Rd	0.73	96.45	65.9	63.03	1.46	1.05	1.49	1.09
IB-84	Middleton Rd to Karcher Rd	0.74	133.61	78.65	76.53	1.70	1.03		
IB-84	Karcher Rd to Midland Blvd	0.64	147.92	78.94	66.24	1.87	1.19		
IB-84	Midland Blvd to Canyon St	1.05	163.30	107.85	107.59	1.51	1.00		
IB-84	Canyon St to Yale/SH-55	0.30	67.47	38.53	31.06	1.75	1.24		
IB-84	Yale/SH-55 to 7th Ave	0.45	51.96	50.32	46.39	1.03	1.08		
IB-84	7th Ave to 11th/3 <sup>rd</sup> St	0.28	67.14	48.63	34.25	1.38	1.42		
IB-84	Cleveland/Centennial Way to Kimball	0.50	108.09	79.2	72.58	1.36	1.09	1.38	1.03
IB-84	Kimball to 10th Ave	0.14	38.67	22.46	20.30	1.72	1.11		
IB-84	10th Ave to 18 <sup>th</sup> Ave	0.61	73.41	74.86	66.12	0.98	1.13		
IB-84	18th Ave to 21st Ave	0.22	31.26	24.21	22.42	1.29	1.08		
IB-84	21st Ave to Linden St	0.68	126.83	63.02	69.73	2.01	0.90		
IB-84	Linden St to Ustick Rd	1.44	176.06	121.98	118.56	1.44	1.03		
IB-84	Ustick Rd to Homedale Rd	1.47	157.69	114.78	117.28	1.37	0.98		
Meridian Rd	Corporate Dr to Franklin Rd	0.37		52.41	44.13		1.19		1.11
Meridian Rd	Franklin Rd to Pine Ave	0.50		74.01	66.93		1.11		
Meridian Rd	Pine Ave to Cherry Ln	0.00		81.04	72.14		1.12		

	Aso	Ascending (East or Northbound) Travel Time Data, 2009									
Name	Description	Distance	Congested Time	I deal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average		
Middleton Rd	Center I-84 Overpass to Ustick Rd	0.83	83.47	72.67	65.93	1.15	1.10	1.11	1.06		
Middleton Rd	Ustick Rd to Linden St	1.04	80.10	83.09	73.87	0.96	1.12				
Middleton Rd	Linden St to US-20/26	1.02	99.12	77.45	73.44	1.28	1.05				
Middleton Rd	US-20/26 to Lincoln St W	1.03	78.41	75.27	74.16	1.04	1.01				
Middleton Rd	Lincoln St W to Ctr Boise River Bridge	1.37	107.36	101.66	99.87	1.06	1.02				
Middleton Rd	Ctr Boise River Bridge to Jct SH-44	0.74	112.32	99.92	87.22	1.12	1.15				
Orchard St	I-84 EB Ramps to Overland Rd	1.08	173.12	127.16	119.31	1.36	1.07	1.50	1.05		
Orchard St	Overland Rd to Franklin Rd	0.85	153.33	119.66	102.00	1.28	1.17				
Orchard St	Franklin Rd to Emerald St	0.70	153.05	77.91	84.00	1.96	0.93				
Orchard St	Emerald St to I-184 EB Ramp	0.42	68.26	51.08	50.40	1.34	1.01				
Orchard St	I-184 EB Ramp to Bond St	0.20	31.27	30.11	23.40	1.04	1.29				
Orchard St	Bond St to Chinden Blvd	0.28	110.96	34.16	34.08	3.25	1.00				
Overland Rd	Maple Grove Rd to Entertainment Ave	0.68	120.77	70.1	65.28	1.72	1.07	1.87	1.12		
Overland Rd	Entertainment Ave to Cole Rd	0.33	93.54	39.18	33.94	2.39	1.15	· ·			
Overland Rd	Cole Rd to Curtis Rd	0.81	156.04	111.49	83.52	1.40	1.33				
Overland Rd	Curtis Rd to Orchard St	0.51	116.97	53.22	52.46	2.20	1.01				
Overland Rd	Orchard St to Roosevelt St	0.49	70.28	52.76	50.40	1.33	1.05				
Overland Rd	Roosevelt St to Owyhee St	0.50	82.76	52.94	51.43	1.56	1.03				
Overland Rd	Owyhee St to Vista Ave/Overland Rd	0.49	119.70	57.96	50.40	2.07	1.15				
Overland Rd	Ten Mile Rd to Linder Rd	1.00	104.75	97.78	102.86	1.07	0.95	1.45	1.07		
Overland Rd	Linder Rd to SH-69	1.00	130.70	112.09	90.00	1.17	1.25				
Overland Rd	SH-69 to Locust Grove Rd	0.96	164.47	89.86	86.40	1.83	1.04				
Overland Rd	Locust Grove Rd to Eagle Rd	0.98	145.49	100.76	90.90	1.44	1.11				
Overland Rd	Eagle Rd to Cloverdale Rd	1.01	134.28	82.71	80.80	1.62	1.02				
Overland Rd	Cloverdale Rd to Five Mile Rd	1.01	140.18	89.58	80.80	1.56	1.11				
Overland Rd	Five Mile Rd to Maple Grove Rd	1.09	147.32	97.03	98.10	1.52	0.99				
Parkcenter Blvd (Park Blvd)	Broadway Ave to Clearwater Ln	0.31	53.21	38.7	32.30	1.37	1.20	1.26	1.04		
Parkcenter Blvd	Clearwater Ln to Beacon St	0.32	44.33	29.61	32.71	1.50	0.91				
Parkcenter Blvd	Beacon St to Mallard Dr	0.52	67.29	55.2	53.18	1.22	1.04				
Parkcenter Blvd	Mallard Dr to River Run Dr	0.55	67.26	57.78	56.57	1.16	1.02				
Parkcenter Blvd	River Run Dr to Apple St	0.45	61.79	48.41	46.29	1.28	1.05				
Parkcenter Blvd	Apple St to Riverside Elementary	0.88	97.91	94.31	90.51	1.04	1.04				
SH-16	SH-44 to Floating Feather Rd	1.27	79.53	76.99	70.06	1.03	1.10	1.05	1.03		
SH-16	Floating Feather Rd to Beacon Light Rd	0.77	44.82	43.15	42.43	1.04	1.02	, , ,			
SH-16	Beacon Light Rd to Deep Canyon Rd	1.37	82.84	77.68	75.82	1.07	1.02				

	As	cending (Eas	t or Northboun	d) Travel	Time Data, 2	2009			
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SH-16	Deep Canyon Rd to Firebird entrance	2.09	117.29	116.47	115.48	1.01	1.01		
SH-16	Firebird entrance to County line	2.87	164.55	161.77	159.18	1.02	1.02		
SH-19/IB-84	Simplot Exit #3 to Farmway Rd	1.01	69.80	65.39	66.18	1.07	0.99	1.15	1.14
SH-19/IB-84	Farmway Rd to Blaine St	0.86	105.34	69.13	49.40	1.52	1.40		
SH-19/IB-84	Blaine St to Chicago St	0.28	44.02	46.88	44.02	0.94	1.06		
SH-19/IB-84	Chicago St to I-84 WB Ramps	0.52	49.70	48.54	44.75	1.02	1.08		
SH-21	I-84 EB ramps to Federal Way	0.41	75.59	44.93	42.17	1.68	1.07	1.10	1.08
SH-21	Federal Way to Technology Way	0.38	43.03	34.03	24.74	1.26	1.38		
SH-21	Technology Way to E Lake Forest Dr	1.70	122.47	116.34	111.21	1.05	1.05		
SH-21	E Lake Forest Dr to Warm Springs Ave	1.09	65.62	66.93	71.54	0.98	0.94		
SH-21	Warm Springs Ave to Discovery State Park	1.81	133.62	132.36	119.91	1.01	1.10		
SH-21	Discovery State Park to Sandy Point Ln	0.56	45.14	49.63	44.40	0.91	1.12		
SH-44	SH-55 to Horseshoe Bend Rd	0.19	39.73	24.65	12.24	1.61	2.01	1.56	1.11
SH-44	Horseshoe Bend Rd to Glenwood St	2.03	189.76	150.71	144.97	1.26	1.04		
SH-44	State St to Marigold St	0.61	189.61	74.63	62.74	2.54	1.19		
SH-44	Marigold St to Chinden Blvd	0.70	92.24	76.86	72.00	1.20	1.07		
SH-44	Linder to Begin New Alignment	1.53	142.55	107.86	100.15	1.32	1.08	1.45	1.18
SH-44	Begin New Alignment to Eagle Rd	1.54	163.10	103.38	100.73	1.58	1.03		
SH-44	Eagle Rd to SH-55	1.96	153.11	222.19	123.77	0.69	1.80		
SH-44	Kingsbury Rd to Blessinger Ln	1.01	66.47	65.72	65.85	1.01	1.00	1.24	1.02
SH-44	Blessinger Ln to Can-Ada Rd	1.05	69.72	69.51	68.92	1.00	1.01		
SH-44	Can-Ada Rd to Star Rd	1.00	111.76	90.95	88.41	1.23	1.03		
SH-44	Star Rd to Taurus Way	0.44	74.35	65.87	63.36	1.13	1.04		
SH-44	Taurus Way to Jct SH-16	1.30	130.85	93.85	92.82	1.39	1.01		
SH-44	Jct SH-16 to Palmer Lane	0.75	58.03	50.89	49.22	1.14	1.03		
SH-44	Palmer Lane to Linder	1.51	171.50	99.62	99.03	1.72	1.01		
SH-44	I-84 EB ramps to Old Hwy 30	0.25	26.59	25.74	25.92	1.03	0.99	1.07	1.02
SH-44	Old Hwy 30 to Emmett Rd	2.14	148.46	142.97	142.00	1.04	1.01		
SH-44	Emmett Rd to Cemetery Rd	1.02	89.49	76.78	74.27	1.17	1.03		
SH-44	Cemetery Rd to Middleton Rd	0.75	121.34	100.13	95.16	1.21	1.05		
SH-44	Middleton Rd to Marjorie Ave	0.53	51.19	45.77	45.51	1.12	1.01		
SH-44	Marjorie Ave to Duff Ln	0.77	52.94	52.37	52.42	1.01	1.00		
SH-44	Duff Ln to Lansing Ln	1.01	68.44	66.34	66.11	1.03	1.00		

	As	cending (Eas	st or Northboun	d) Travel	Time Data, 2	2009			
Name	Description	Distance	Congested Time	I deal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average
SH-44	Lansing Ln to Kingsbury Rd	1.03	70.61	68.72	67.55	1.03	1.02		
SH-45	Ruth Ln to Greenhurst Rd	1.55	149.64	139.55	133.75	1.07	1.04	1.27	1.09
SH-45	Greenhurst Rd to Iowa Ave	0.44	65.63	55.22	45.57	1.19	1.21	•	
SH-45	Iowa Ave to Lake Lowell Ave	0.56	78.43	57.9	57.29	1.35	1.01		
SH-45	Lake Lowell Ave to 7 <sup>th</sup> Ave	1.03	142.90	113.51	105.94	1.26	1.07		
SH-45	7th to 12th Ave/3rd St	0.29	74.13	54.66	32.79	1.36	1.67		
SH-45	12th Ave/3rd St to 2nd/11 <sup>th</sup> Ave	0.15	29.45	28.64	21.02	1.03	1.36		
SH-55 (Northside Blvd)	3rd St S to 1st St N	0.38	54.16	40.81	39.19	1.33	1.04	1.33	1.13
SH-55 (Northside Blvd)	1st St N to 6th St N	0.53	51.53	45.42	42.96	1.13	1.06	•	
SH-55 (Northside Blvd)	6th St N to I-84 WB Ramps	0.25	44.56	25.66	19.84	1.74	1.29		
SH-55	Overland Rd to I-84 EB Ramps	0.16	29.71	0	11.30	2.63	0.00	2.22	1.08
SH-55	I-84 EB Ramps to St Luke's	0.42	128.50	51.06	30.46	2.52	1.68		
SH-55	St Luke's Ln to Franklin Rd	0.44	77.39	22.42	18.00	3.45	1.25		
SH-55	Franklin Rd to Fairview Ave	1.00	195.09	73.91	72.14	2.64	1.02		
SH-55	Fairview Ave to Ustick Rd	0.98	109.99	67.89	68.42	1.62	0.99		
SH-55	Ustick Rd to McMillan Rd	1.01	147.43	73.09	66.17	2.02	1.10		
SH-55	McMillan Rd to Chinden Blvd	1.01	162.51	69.91	66.04	2.32	1.06	1.67	1.07
SH-55	Chinden Blvd to SH-44	1.91	193.07	143.78	129.51	1.34	1.11		
SH-55	SH-44 to Hill Rd	0.62	47.57	48.94	40.32	0.97	1.21	1.19	1.10
SH-55	Hill Rd to Floating Feather Rd	0.89	72.17	59.84	58.45	1.21	1.02		
SH-55	Floating Feather Rd to Beacon Light Rd	0.99	70.56	65.62	64.80	1.08	1.01		
SH-55/ Northside Blvd	I-84 WB ramps to Karcher Rd	0.23	38.04	22.38	23.76	1.70	0.94	1.33	1.13
SH-55/ Northside Blvd	Karcher Rd to Cherry Ln	1.00	108.88	95.32	90.00	1.14	1.06		
SH-55/ Northside Blvd	Cherry Ln to Ustick Rd	1.00	95.96	89.21	80.20	1.08	1.11		
SH-55/ Northside Blvd	Ustick Rd to Linden Rd	1.00	91.04	80.45	72.50	1.13	1.11		
SH-55/ Northside Blvd	Linden Rd to US -20/26	1.00	101.13	78.78	72.72	1.28	1.08		
SH-69	Kuna Rd to Deer Flat Rd	1.03	91.52	68.88	67.16	1.33	1.03	1.19	1.01
SH-69	Deer Flat Rd to Hubbard Rd	0.99	74.83	66.16	65.00	1.13	1.02		
SH-69	Hubbard Rd to Columbia Rd	1.01	67.15	66.65	66.04	1.01	1.01		
SH-69	Columbia Rd to Lake Hazel Rd	1.00	66.57	66.17	65.59	1.01	1.01		
SH-69	Lake Hazel Rd to Amity Rd	1.01	98.94	67.19	66.04	1.47	1.02		
SH-69	Amity Rd to Victory Rd	1.01	95.97	66.63	66.04	1.44	1.01		
SH-69/ Main St	Victory Rd to Overland Rd	1.01		74.84	69.48		1.08		1.10
SH-69/ Main St	Overland Rd to I-84 EB Ramps	0.13		16.88			1.46		
SH-69/ Main St	I-84 EB Ramps to I-84 WB Ramps	0.17		22.6	17.07		1.32		
SH-69/ Main St	I-84 WB Ramps to Corporate Dr	0.40		43.81	40.73		1.08		
SH-69/ Main St	Corporate Dr to Franklin Rd	0.34		43.36	34.97		1.24		
SH-69/ Main St	Franklin Rd to Pine Ave	0.50		67.54	72.14		0.94		

	As	cending (Eas	st or Northbour	d) Travel	Time Data, 2	2009			
Name	Description	Distance	Congested Time	I deal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average
SH-69/ Main St	Pine Ave to Main/ Cherry Ln	0.48		71.7	60.61		1.18		
State St	Glenwood St to Pierce Park Ln	0.69	73.57	73.86	54.96	1.00	1.34	1.52	1.08
State St	Pierce Park Ln to Collister Dr	1.32	130.82	107.39	105.84	1.22	1.01		
State St	Collister Dr to Veterans Pkwy	0.91	167.95	98.2	93.81	1.71	1.05		
State St	Veterans Pkwy to 27th St	0.93	189.38	98.44	95.35	1.92	1.03		
State St	27th St to 18th St	0.66	103.85	81.44	74.54	1.28	1.09		
State St	18th St to 15th St	0.24	64.86	33.99	28.68	1.91	1.19		
Ten Mile Rd	Amity Rd to Victory Rd	1.01	88.37	82.51	72.72	1.07	1.13	1.09	1.10
Ten Mile Rd	Victory Rd to Overland Rd	1.00	93.31	92.1	90.00	1.01	1.02		
Ten Mile Rd	Overland Rd to Franklin Rd	1.01	100.42	82.5	72.72	1.22	1.13		
US-20/26	I-84 EB off ramp to I-84 WB ramps	0.18	28.88	40.83	18.31	0.71	2.23	1.18	1.05
US-20/26	I-84 WB ramps to Muller Rd	0.20	33.59	20.52	20.67	1.64	0.99		
US-20/26	Muller Rd to KCID Rd	1.08	84.13	78.33	77.87	1.07	1.01		
US-20/26	KCID Rd to Middleton Rd	0.99	104.68	63.88	64.87	1.64	0.98		
US-20/26	Middleton Rd to Midland Blvd	1.00	75.78	65.82	65.59	1.15	1.00		
US-20/26	Midland Blvd to Northside Blvd	1.00	76.20	65.39	65.19	1.17	1.00		
US-20/26	Northside Blvd to Franklin Rd	1.01	74.10	66.2	65.85	1.12	1.01		
US-20/26	Franklin Rd to 11th Ave N	1.02	69.72	66.45	66.57	1.05	1.00		
US-20/26	Linder Rd to Eagle Rd	2.97	382.92	203.28	194.47	1.88	1.05	1.75	1.05
US-20/26	Eagle Rd to Cloverdale Rd	1.00	109.24	71.92	65.52	1.52	1.10		
US-20/26	Cloverdale Rd to Garrett St	1.84	173.00	127.83	123.07	1.35	1.04		
US-20/26	Garrett St to Glenwood St	1.09	142.26	98.06	98.07	1.45	1.00		
US-20/26	Glenwood St to Veterans Pkwy	1.96	270.17	207.61	201.09	1.30	1.03	1.23	1.06
US-20/26	Veterans Pkwy to 36 <sup>th</sup> St	0.65	88.65	69.36	66.65	1.28	1.04		
US-20/26	36th to Main St	0.48	55.86	49.62	49.58	1.13	1.00		
US-20/26	Main St to 13 <sup>th</sup> St	1.26	139.57	115.28	96.77	1.21	1.19		
US-20/26	13th St to 9 <sup>th</sup> St	0.30	57.41	54.68	30.96	1.05	1.77	1.48	1.12
US-20/26	9th St to Capitol Blvd	0.14	18.69	23.43	14.81	0.80	1.58		
US-20/26	Capitol Blvd to Broadway Ave	0.72	84.36	78.21	74.47	1.08	1.05		
US-20/26	Broadway/Myrtle St to Beacon St	0.51	114.26	57.97	52.46	1.97	1.11		
US-20/26	Beacon St to Boise Ave	0.55	92.73	62.19	56.67	1.49	1.10		
US-20/26	Boise Ave to Federal Way	1.07	147.94	109.19	110.06	1.35	0.99		
US-20/26	Federal Way to I-84 EB Ramps	0.69	94.19	63.71	60.21	1.48	1.06		
US-20/26	11th Ave N to Can-Ada Rd	1.02	68.25	66.86	66.44	1.02	1.01	1.26	1.01
US-20/26	Can-Ada Rd to Star Rd	0.98	98.96	64	63.95	1.55	1.00		
US-20/26	Star Rd to McDermott Rd	1.01	75.36	66.08	65.91	1.14	1.00		
US-20/26	McDermott Rd to Black Cat Rd	0.99	69.42	65.03	64.67	1.07	1.01		
US-20/26	Black Cat Rd to Ten Mile Rd	1.00	72.28	65.79	65.52	1.10	1.00		
US-20/26	Ten Mile Rd to Linder Rd	1.00	114.74	65.56	65.13	1.75	1.01		

Ascending (East or Northbound) Travel Time Data, 2009										
Name	Description	Distance	Congested Time	I deal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average	
Ustick Rd	Wagner Rd to Farmway Rd	0.95	89.43	0	68.40	1.31	0.00	1.27	0.94	
Ustick Rd	Farmway Rd to Kimball	0.71	82.46	80.29	72.51	1.03	1.11	•		
Ustick Rd	Kimball to 10th Ave	0.25	45.83	32.15	25.82	1.43	1.25			
Ustick Rd	10th Ave to Indiana Ave	1.00	156.97	111.25	103.17	1.41	1.08			
Ustick Rd	Indiana Ave to Lake Ave	1.01	117.68	111.83	103.68	1.05	1.08			
Ustick Rd	Lake Ave to Caldwell Blvd	0.40	118.24	49.58	41.14	2.38	1.21			
Ustick Rd	Caldwell Blvd to RR Crossing	0.35	44.50	38.84	35.49	1.15	1.09			
Ustick Rd	RR Crossing to Middleton Rd	1.28	127.58	118.5	106.92	1.08	1.11			
Ustick Rd	Middleton Rd to Midland Blvd	1.00	100.25	76.94	72.00	1.30	1.07	1.13	1.12	
Ustick Rd	Midland Blvd to Northside Blvd	1.00	101.70	87.21	72.00	1.17	1.21	<u> </u>		
Ustick Rd	Northside Blvd to Franklin Blvd	1.00	90.04	85.43	72.00	1.05	1.19			
Ustick Rd	Franklin Blvd to 11th Ave N	1.04	82.10	77.34	74.88	1.06	1.03			
Ustick Rd	11th Ave N to Can-Ada Rd	1.00	90.97	78.19	72.00	1.16	1.09			
Ustick Rd	Can-Ada Rd to Star Rd	0.99	90.74	82.86	71.28	1.10	1.16			
Ustick Rd	Star Rd to McDermott Rd	1.00	77.54	78.56	72.00	0.99	1.09			
Ustick Rd	McDermott Rd to Black Cat Rd	1.00	87.69	0	72.00	1.22	0.00	1.57	0.00	
Ustick Rd	Black Cat Rd to Ten Mile Rd	1.00	115.10	0	80.00	1.44	0.00			
Ustick Rd	Ten Mile Rd to Linder Rd	1.00	144.18	0	90.36	1.60	0.00			
Ustick Rd	Linder Rd to Meridian Rd	1.00	148.79	0	90.00	1.65	0.00			
Ustick Rd	Meridian Rd to Locust Grove Rd	1.00	132.11	0	90.00	1.47	0.00			
Ustick Rd	Locust Grove Rd to Eagle Rd	1.00	191.05	0	90.00	2.12	0.00			
Vista Ave/ Capitol Blvd/ 9th St	Wright St to I-84 EB Ramps	0.08	35.86	8.31	8.02	4.31	1.04	1.74	1.17	
Vista Ave/ Capitol Blvd/ 9th St	I-84 EB Ramps to Canal St	0.48	69.22	52.4	49.37	1.32	1.06			
Vista Ave/ Capitol Blvd/ 9th St	Canal St to Targee St	0.37	41.37	39.61	38.06	1.04	1.04			
Vista Ave/ Capitol Blvd/ 9th St	Targee St to Overland Rd	0.49	79.68	53.56	50.40	1.49	1.06			
Vista Ave/ Capitol Blvd/ 9th St	Overland Rd to Kootenai St	0.24	42.87	26.66	24.69	1.61	1.08			
Vista Ave/ Capitol Blvd/ 9th St	Kootenai St to Eastover Rd	0.61	76.55	61.65	62.23	1.24	0.99			
Vista Ave/ Capitol Blvd/ 9th St	Eastover Rd to University Dr	0.29	117.30	40.9	30.03	2.87	1.36			
Vista Ave/ Capitol Blvd/ 9th St	University Dr to Myrtle St	0.54	90.49	72.02	62.54	1.26	1.15			
Vista Ave/ Capitol Blvd/ 9th St	Myrtle St to Front St	0.12	50.03	22.34	14.40	2.24	1.55			
Vista Ave/ Capitol Blvd/ 9th St	Front St to Bannock St	0.27	80.20	38.03	38.16	2.11	1.00			

**Table A- 2: Descending Data** 

	Desc	ending (Eas	t or Northboun	d) Travel	Time Data, 2	2009			
Name	Description	Distance	Congested Time	I deal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average
10th Ave	I-84 WB Ramps to Chicago St	0.47	83.44	55.41	48.24	1.51	1.15	1.21	1.51
10th Ave	Chicago St to Cleveland Blvd	0.42	81.25	92.24	43.61	0.88	2.12		
21st Ave	I-84 EB Ramps to Franklin Rd	0.00		25.63	17.18		1.49		1.69
21st Ave	Franklin Rd to Chicago St	0.00		35.84	32.71		1.10		
21st Ave	Chicago St to Cleveland Blvd	0.00		78.29	51.24		1.53		
Airport Rd	Happy Valley Rd to Garrity Blvd	1.03	127.58	111.51	106.15	1.14	1.05	1.20	1.05
Americana Blvd/ 15th St/ 16th St	State St to Main St	0.25	57.20	48.96	30.00	1.17	1.63	1.58	1.17
Americana Blvd/ 15th St/ 16th St	Main St to Shoreline Dr	1.67	107.21	55.39	54.00	1.94	1.03		
Americana Blvd/ 15th St/ 16th St	Shoreline Dr to Emerald St	0.54	77.69	69.14	64.80	1.12	1.07		
Amity Rd	Happy Valley Rd to South Side Blvd	1.00	135.78	117.09	102.86	1.16	1.14	1.27	1.05
Amity Rd	South Side Blvd to S Powerline Rd	1.02	141.63	104.88	104.40	1.35	1.00		
Amity Rd	S Powerline Rd to Holly St	0.35	87.09	74.7	69.49	1.17	1.07		
Amity Rd	Holly St to SH-45	0.66	138.68	71.14	67.68	1.95	1.05		
Amity Rd	SH-69 to Linder Rd	1.01	93.73	80.98	72.72	1.16	1.11	1.12	1.13
Amity Rd	Linder Rd to Ten Mile Rd	1.00	89.35	81.69	72.00	1.09	1.13	<u>.                                      </u>	
Amity Rd	Ten Mile Rd to Black Cat Rd	1.00	79.12	75.96	72.00	1.04	1.06		
Amity Rd	Black Cat Rd to McDermott Rd	0.93	74.85	72.72	66.89	1.03	1.09		
Amity Rd	McDermott Rd to Robinson Rd	1.09	102.31	83.73	78.55	1.22	1.07		
Amity Rd	Robinson Rd to Happy Valley Rd	0.96	85.68	85.65	73.53	1.00	1.16		
Can-Ada Rd	US-20/26 to McMillan Rd	1.01	79.01	77.58	72.72	1.02	1.07	1.22	1.07
Can-Ada Rd	McMillan Rd to Ustick Rd	1.00	84.68	79.51	72.22	1.07	1.10		
Can-Ada Rd	Ustick Rd to Cherry Ln	1.00	113.31	84.38	71.93	1.34	1.17		
Can-Ada Rd	Cherry Ln to Franklin Rd	1.10	132.66	107.52	113.45	1.23	0.95		
Can-Ada Rd	Franklin Rd Rd to I-84 WB Ramps	0.35	78.07	38.69	35.49	2.02	1.09		
Cherry Ln	Black Cat Rd to McDermott Rd	1.15	93.34	93.39	103.05	1.00	0.91	1.08	1.09
Cherry Ln	McDermott Rd to Star Rd	0.91	92.51	85.4	72.48	1.08	1.18		
Cherry Ln	Star Rd to Can-Ada Rd	1.00	94.03	88.15	80.00	1.07	1.10		
Cherry Ln	Can-Ada Rd to 11th Ave N	1.03	87.66	85.09	82.40	1.03	1.03		
Cherry Ln	11th Ave N to Franklin Rd	1.03	92.57	87.15	82.40	1.06	1.06		
Cherry Ln	Franklin Rd to Northside Blvd	1.03	102.24	90.63	82.40	1.13	1.10		
Cherry Ln	Northside Blvd to Midland Blvd	1.02	114.65	99.47	81.60	1.15	1.22		
Cherry Ln	Midland Blvd to Middleton Rd	1.15	114.42	106.17	92.00	1.08	1.15		
Cherry Ln/ Fairview Ave	Locust Grove St to Main St	0.85	211.41	91.11	87.63	2.32	1.04	1.43	1.05
Cherry Ln/ Fairview Ave	Main St to Linder St	1.12	176.90	117.76	114.79	1.50	1.03		
Cherry Ln/ Fairview Ave	Linder St to Ten Mile Rd	1.02	129.52	108.6	104.91	1.19	1.04		
Cherry Ln/ Fairview Ave	Ten Mile Rd to Black Cat Rd	1.01	126.49	114.63	103.89	1.10	1.10		

Descending (East or Northbound) Travel Time Data, 2009										
Name	Description	Distance	Congested Time	I deal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average	
Cole Rd	Chinden Blvd to Mountain View Dr	0.61	117.05	84	73.20	1.39	1.15	1.57	1.22	
Cole Rd	Mountain View Dr to Ustick Rd	0.60	95.96	74.79	62.13	1.28	1.20			
Cole Rd	Ustick Rd to Northview St	0.54	72.68	55.54	55.85	1.31	0.99			
Cole Rd	Northview St to Fairview Ave	0.51	137.59	68.18	52.66	2.02	1.29			
Cole Rd	Fairview Ave to Emerald St	0.49	108.45	53.38	50.19	2.03	1.06			
Cole Rd	Emerald St to Franklin Rd	0.52	126.62	60.59	53.38	2.09	1.14	1.56	1.05	
Cole Rd	Franklin Rd to Overland Rd	1.00	183.48	108.82	102.55	1.69	1.06			
Cole Rd	Overland Rd to S Costco/Century Way	0.42	86.64	43.64	43.51	1.99	1.00			
Cole Rd	S Costco/Century Way to Victory Rd	0.58	116.27	65.54	59.35	1.77	1.10			
Cole Rd	Victory Rd to Amity Rd	1.01	117.86	104.71	103.89	1.13	1.01			
Cole Rd	Amity Rd to Latigo Dr	0.99	107.51	98.53	101.83	1.09	0.97			
Fairview Ave	Maple Grove Rd to Mitchell St	0.62	61.71	53.42	53.38	1.16	1.00	1.65	1.06	
Fairview Ave	Mitchell St to Five Mile Rd	0.49	150.45	55.17	50.50	2.73	1.09			
Fairview Ave	Five Mile Rd to Cloverdale Rd	1.01	157.57	94.44	90.90	1.67	1.04			
Fairview Ave	Cloverdale Rd to Eagle Rd	1.01	158.27	97.1	90.90	1.63	1.07			
Fairview Ave	Eagle Rd to Locust Grove St	1.00	143.84	112.34	91.48	1.28	1.23			
Fairview Ave	Orchard St to Curtis Rd	0.51	130.33	58.82	52.56	2.22	1.12	1.59	1.10	
Fairview Ave	Curtis Rd to Liberty St	0.38	49.37	41.09	39.09	1.20	1.05			
Fairview Ave	Liberty St to Cole Rd	0.66	162.00	81.81	67.37	1.98	1.21			
Fairview Ave	Cole Rd to Milwaukee St	0.51	84.91	60.31	52.05	1.41	1.16			
Fairview Ave	Milwaukee St to Maple Grove Rd	0.50	66.70	54.53	51.22	1.22	1.06			
Fairview Ave/ Main St/ Idaho St	Ave B to 1st St	0.13	45.37	22.78	15.60	1.99	1.46	1.45	1.23	
Fairview Ave/ Main St/ Idaho St	1st St to 6th St	0.36	91.32	47.78	42.60	1.91	1.12			
Fairview Ave/ Main St/ Idaho St	6th St to 9th St	0.19	52.35	26.42	22.80	1.98	1.16			
Fairview Ave / Main St/ Idaho St	9th St to 13th St	0.29	43.30	34.39	34.80	1.26	0.99			
Fairview Ave / Main St/ Idaho St	13th St to 16th St	0.26	42.24	26.33	31.20	1.60	0.84			
Fairview Ave/ Main St/ Idaho St	16th St to Grove St	0.19	27.03	24.98	21.60	1.08	1.16			
Fairview Ave/ Main St/ Idaho St	Grove St to 23rd St	0.19	24.49	46.2	19.25	0.53	2.40			
Fairview Ave / Main St/ Idaho St	23rd St to 27th St	0.28	45.84	31.99	29.01	1.43	1.10			
Fairview Ave/ Main St/ Idaho St	27th St to W End Boise River Br	0.39	45.14	42.01	40.42	1.07	1.04			
Federal Way	Vista Ave/Eastover Rd to Kootenai St	0.67	80.63	62.65	60.12	1.29	1.04	1.39	1.03	
Federal Way	Kootenai St to Overland Rd	0.35	57.82	33.32	31.59	1.74	1.05	•		
Federal Way	Overland Rd to Broadway Ave	1.16	132.87	98.19	104.67	1.35	0.94			

	Desc	ending (Eas	t or Northboun	d) Travel	Time Data, 2	2009			
Name	Description	Distance	Congested Time	I deal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average
Federal Way	Broadway Ave to Bergeson St	0.76	131.16	76.29	68.22	1.72	1.12		
Federal Way	Bergeson St to Amity Rd	1.00	89.63	79.01	80.00	1.13	0.99		
Federal Way	Amity Rd to Yamhill Rd	0.85	79.54	70.26	68.00	1.13	1.03		
Federal Way	Yamhill Rd to SH-21	0.57	110.27	58.78	51.30	1.88	1.15		
Five Mile Rd	Fairview Ave to Franklin Rd	1.03	187.20	115.62	106.15	1.62	1.09	1.45	1.13
Five Mile Rd	Franklin Rd to Overland Rd	1.02	175.32	116.14	104.81	1.51	1.11		
Franklin Blvd	I-84 WB Ramps to 11th Ave N	0.94	147.11	97.19	85.26	1.51	1.14	1.78	1.13
Franklin Rd	Cloverdale Rd to Eagle Rd	1.06	168.69	88.77	84.72	1.90	1.05	2.18	1.07
Franklin Rd	Eagle Rd to Locust Grove Rd	1.01	151.57	79.66	81.04	1.90	0.98	•	
Franklin Rd	Locust Grove Rd to Main St	0.98	398.63	92.6	87.84	4.30	1.05		
Franklin Rd	Cole Rd to Milwaukee St	0.36	84.91	38.37	37.03	2.21	1.04	1.77	1.05
Franklin Rd	Milwaukee St to Maple Grove Rd	0.65	87.07	72.2	66.86	1.21	1.08	<u>,                                      </u>	
Franklin Rd	Maple Grove Rd to Five Mile Rd	1.01	210.84	84.96	84.23	2.48	1.01		
Franklin Rd	Five Mile Rd to Cloverdale Rd	1.01	141.69	86.7	80.80	1.63	1.07		
Franklin Rd	Main St to Linder Rd	1.10	185.37	126.07	113.04	1.47	1.12	1.33	1.17
Franklin Rd	Linder Rd to Ten Mile Rd	1.00	113.01	83.92	72.29	1.35	1.16		
Franklin Rd	Ten Mile Rd to Black Cat Rd	1.00	102.97	83.39	71.93	1.23	1.16		
Franklin Rd	Black Cat Rd to McDermott Rd	1.00	77.65	76.77	72.22	1.01	1.06		
Franklin Rd	McDermott Rd to Star Rd	1.00	97.19	85.74	79.84	1.13	1.07		
Franklin Rd	Star Rd to Can-Ada Rd (Idaho Center Blvd)	0.99	120.31	85.45	78.80	1.41	1.08		
Greenhurst Rd	McDermott Rd to Robinson Rd	1.22	107.43	102.96	97.60	1.04	1.05	1.13	1.13
Greenhurst Rd	Robinson Rd to Happy Valley Rd	1.14	109.73	108.54	102.60	1.01	1.06		
Greenhurst Rd	Happy Valley Rd to Southside Blvd	1.00	144.06	116.44	102.86	1.24	1.13		
Greenhurst Rd	Southside Blvd to S Powerline Rd	1.01	129.52	116.28	104.19	1.11	1.12		
Greenhurst Rd	S Powerline Rd to Sunnyridge Rd	0.49	75.47	58.5	50.81	1.29	1.15		
Greenhurst Rd	Sunnyridge Rd to 12th Ave Rd	0.50	106.72	81.66	51.74	1.31	1.58		
Greenhurst Rd	12th Ave Rd to Midland Blvd	1.00	129.97	115.66	103.17	1.12	1.12		
Greenhurst Rd	Midland Blvd to Middleton Rd	1.00	95.69	92.4	80.00	1.04	1.16		
I-184	Chinden Blvd to Orchard St	0.50	33.38	32.16	32.73	1.04	0.98	0.99	1.01
I-184	Orchard St to Curtis Rd	0.55	34.64	34.77	36.00	1.00	0.97		
I-184	Curtis Rd to Franklin Rd	1.46	99.14	99.87	95.30	0.99	1.05		
I-184	Franklin Rd to Jct I-84	1.08	67.10	68.42	70.95	0.98	0.96		
I-84	Ten Mile Rd to Garrity IC	4.06	289.47	265.42	265.42	1.09	1.00	1.23	1.00
I-84	Garrity IC to Franklin Blvd	1.96	141.69	108.55	108.55	1.31	1.00		
I-84	Franklin Blvd to Nampa Blvd	1.02	65.04	56.55	56.55	1.15	1.00	1.07	1.00
I-84	Nampa Blvd to US -20/26	6.31	364.32	349.7	349.70	1.04	1.00		
I-84	US-20/26 to 10th St	1.03	64.25	57.05	57.05	1.13	1.00		
I-84	10th St to IB-84	0.90	54.23	49.68	49.68	1.09	1.00		
I-84	IB-84 to US 20/26	0.73	45.44	40.38	40.38	1.13	1.00		

	Desc	ending (Eas	t or Northbound	d) Travel	Time Data, 2	2009			
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I-84	US 20/26 to Hwy 44	1.16	67.79	63.97	63.97	1.06	1.00		J
I-84	Eagle Rd to Meridian Rd	1.99	294.86	130.32	130.32	2.26	1.00	1.47	1.00
I-84	Meridian Rd to Ten Mile Rd	2.01	216.58	131.37	131.37	1.65	1.00	•	
I-84	Orchard St to Overland Rd	1.86	124.28	100.29	105.37	1.24	0.95	1.12	0.99
I-84	Overland Rd to Five Mile Rd	2.10	120.63	117.84	116.20	1.02	1.01	l .	
I-84	Five Mile Rd to Eagle Rd	2.04	136.69	112.59	113.21	1.21	0.99		
I-84	Eisenman Rd to Gowen Rd	2.58	153.26	122.03	123.74	1.26	0.99	1.16	0.99
I-84	Gowen Rd to Broadway Ave	2.45	133.70	121.05	121.26	1.10	1.00		-
I-84	Broadway Ave to Vista Ave	1.00	60.25	54.4	55.50	1.11	0.98		
I-84	Vista Ave to Orchard St	1.49	97.89	80.66	82.30	1.21	0.98		
IB-84	I-84 WB Ramps to Flamingo Ave	0.29	48.53	31.48	23.20	1.54	1.36	1.36	1.19
IB-84	Flamingo Ave to 16 <sup>th</sup> Ave	1.66	183.69	173.72	149.36	1.06	1.16		
IB-84	16th to Garrity/Franklin Blvd	0.33	108.48	53.1	33.53	2.04	1.58		
IB-84	Garrity/Franklin Blvd to 11th/3 <sup>rd</sup> St	0.86	176.29	109.32	87.94	1.61	1.24		
IB-84	11th/2nd St to 7th Ave	0.29	40.26	45.56	34.14	0.88	1.33	1.49	1.09
IB-84	7th Ave to SH-55	0.47	101.09	63.7	48.55	1.59	1.31		
IB-84	SH-55 to Canyon St	0.26	51.54	35.41	27.15	1.46	1.30		
IB-84	Canyon St to Midland Blvd	1.05	146.04	115.38	107.59	1.27	1.07		
IB-84	Midland Blvd to Karcher Rd	0.64	138.16	66.82	66.24	2.07	1.01		
IB-84	Karcher Rd to Middleton Rd	0.74	115.50	76.76	76.53	1.50	1.00		
IB-84	Middleton Rd to Homedale Rd	0.73	71.29	60.04	63.03	1.19	0.95		
IB-84	Homedale Rd to Ustick Rd	1.47	181.81	115.69	117.28	1.57	0.99	1.38	1.03
IB-84	Ustick Rd to Linden St	1.44	155.22	120.53	118.56	1.29	1.02		
IB-84	Linden St to 21 <sup>st</sup> Ave	0.71	96.47	76.65	71.38	1.26	1.07		
IB-84	21st Ave to 18 <sup>th</sup> Ave	0.22	30.53	24.04	22.73	1.27	1.06		
IB-84	18th Ave to 10 <sup>th</sup> Ave	0.58	86.30	73.33	64.41	1.18	1.14		
IB-84	10th Ave to Kimball Ave	0.14	26.54	22.82	20.38	1.16	1.12		
IB-84	Kimball Ave to Simplot Blvd	0.48	79.03	75.13	76.15	1.05	0.99		
Meridian Rd	Cherry Ln to Pine Ave	0.50		76.21	72.14		1.06		1.11
Meridian Rd	Pine Ave to Franklin Rd	0.50		75.95	66.93		1.13		
Meridian Rd	Franklin Rd to Corporate Dr	0.37		47.08	44.16		1.07		
Middleton Rd	Jct SH-44 to Ctr Boise Rv Br	0.74	107.17	96.06	98.33	1.12	0.98	1.11	1.06
Middleton Rd	Ctr Boise Rv Br to Lincoln St W	1.37	105.50	118.93	99.87	0.89	1.19		
Middleton Rd	Lincoln St W to US -20/26	1.03	112.37	69.34	74.16	1.62	0.94		
Middleton Rd	US-20/26 to Linden Rd	1.02	78.42	76.47	74.45	1.03	1.03		
Middleton Rd	Linden Rd to Ustick Rd	1.04	86.42	79	73.87		1.07		
Middleton Rd	Ustick Rd to Center I-84 Overpass	0.83	71.98	70.69	65.93	1.02	1.07		
Orchard St	Chinden Blvd to Bond St	0.28	37.67	36.37	34.08	1.04	1.07	1.50	1.05
Orchard St	Bond St to I-184 EB Ramp	0.20	55.29	26	23.40	2.13	1.11		
Orchard St	I-184 EB Ramp to Emerald St	0.42	93.87	52.19	50.40	1.80	1.04		
Orchard St	Emerald St to Franklin Rd	0.70	97.65	78.12	84.00		0.93		
Orchard St	Franklin Rd to Overland Rd	0.85	157.33	118.4	102.00	1.33	1.16		

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Orchard St	Overland Rd to I-84 EB Ramps	1.08	160.55	117.55	119.31	1.37	0.99		
Overland Rd	Vista Ave to Owyhee St	0.49	66.65	56.06	50.40	1.19	1.11	1.87	1.12
Overland Rd	Owyhee St to Roosevelt St	0.50	97.07	51.4	51.43	1.89	1.00	<u> </u>	
Overland Rd	Roosevelt St to Orchard St	0.49	207.35	54.02	50.40	3.84	1.07		
Overland Rd	Orchard St to Curtis Rd	0.51	110.20	54.94	52.46	2.01	1.05		
Overland Rd	Curtis Rd to Cole Rd	0.81	192.36	110.37	83.52	1.74	1.32		
Overland Rd	Cole Rd to Entertainment Ave	0.33	64.28	35.51	33.94	1.81	1.05		
Overland Rd	Entertainment Ave to Maple Grove Rd	0.68	121.73	70.69	65.28	1.72	1.08		
Overland Rd	Maple Grove Rd to Five Mile Rd	1.09	131.93	110.54	98.10	1.19	1.13	1.45	1.07
Overland Rd	Five Mile Rd to Cloverdale Rd	1.01	132.61	89.55	80.80	1.48	1.11		
Overland Rd	Cloverdale Rd to Eagle Rd	1.01	174.31	89.11	80.80	1.96	1.10		
Overland Rd	Eagle Rd to Locust Grove Rd	1.01	135.42	85.09	90.90	1.59	0.94		
Overland Rd	Locust Grove Rd to SH-69	0.96	163.19	104.37	86.40	1.56	1.21		
Overland Rd	SH-69 to Linder Rd	1.00	103.09	94.53	90.00	1.09	1.05		
Overland Rd	Linder Rd to Ten Mile Rd	1.00	129.29	104.79	102.86	1.23	1.02		
Parkcenter Blvd	Riverside Elementary to Apple St	0.88	100.04	96.53	90.51	1.04	1.07	1.26	1.04
Parkcenter Blvd	Apple St to River Run Dr	0.45	55.38	47.39	46.29	1.17	1.02		
Parkcenter Blvd	River Run Dr to Mallard Dr	0.55	71.67	57.06	56.57	1.26	1.01		
Parkcenter Blvd	Mallard Dr to Beacon St	0.52	76.45	55.51	53.18	1.38	1.04		
Parkcenter Blvd	Beacon St to Clearwater Ln	0.32	51.67	28.45	32.71	1.82	0.87		
Parkcenter Blvd (Front St)	Clearwater Ln to Broadway Ave	0.52	97.59	61.87	53.18	1.58	1.16		
SH-16	County Line to Firebird Entrance	2.87	159.69	167.52	159.18	0.95	1.05	1.05	1.03
SH-16	Firebird Entrance to Deep Canyon Rd	2.09	115.10	110.22	115.48	1.04	0.95		
SH-16	Deep Canyon Rd to Beacon Light Rd	1.37	77.95	77.33	75.82	1.01	1.02		
SH-16	Beacon Light Rd to Floating Feather Rd	0.77	47.03	43.47	42.43	1.08	1.02		
SH-16	Floating Feather Rd to SH-44	1.27	119.33	78.46	70.06	1.52	1.12		
SH-19/ IB-84	I-84 WB Ramps to Chicago	0.52	50.25	42.79	44.75	1.17	0.96	1.15	1.14
SH-19/ IB-84	Chicago to Blaine	0.28	42.19	47.45	44.02	0.89	1.08	•	
SH-19/ IB-84	Blaine St to Farmway Rd	0.86	76.11	70.48	49.40	1.08	1.43		
SH-19/ IB-84	Farmway Rd to Simplot Exit #3	1.01	75.85	66.63	66.18	1.14	1.01		
SH-21	Sandy Point Ln to Discovery State Park	0.56	42.95	41.82	44.40	1.03	0.94	1.10	1.08
SH-21	Discovery State Park to Warm Springs Ave	1.81	135.75	130.43	119.91	1.04	1.09	<u> </u>	
SH-21	Warm Springs Ave to E Lake Forest Dr	1.09	67.78	68.23	71.54	0.99	0.95		
SH-21	E Lake Forest Dr to Technology Way	1.70	130.93	116.8	111.21	1.12	1.05		

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SH-21	Technology Way to Federal Way	0.37	73.51	33.71	24.74	2.18	1.36		
SH-21	SH-21/Federal Way to I-84 EB Ramps	0.41	61.66	59.28	42.17	1.04	1.41		
SH-44	Chinden Blvd to Marigold St	0.70	152.13	77.75	72.00	1.96	1.08	1.56	1.11
SH-44	Marigold St to State St	0.61	110.44	68.87	62.74	1.60	1.10		
SH-44	Glenwood St to Horseshoe Bend Rd	2.03	221.49	152.28	144.97	1.45	1.05		
SH-44	Horseshoe Bend Rd to SH-55	0.19	52.21	22.29	12.24	2.34	1.82		
SH-44	SH-55 to Eagle Rd	1.96	197.29	128.72	123.77	1.53	1.04	1.45	1.18
SH-44	Eagle Rd to Begin New Alignment	1.54	140.94	102.64	100.73	1.37	1.02		
SH-44	Begin New Alignment to Linder Rd	1.53	243.43	101.57	100.15	2.40	1.01		
SH-44	Linder Rd to Palmer Ln	1.51	110.53	99.72	99.03	1.11	1.01	1.24	1.02
SH-44	Palmer Ln to Jct SH 16	0.75	88.15	53.95	49.22	1.63	1.10		
SH-44	Jct SH 16 to Taurus Way	1.30	126.73	96.64	92.82	1.31	1.04		
SH-44	Taurus Way to Star Rd	0.44	96.62	66.56	63.36	1.45	1.05		
SH-44	Star Rd to Can-Ada Rd	1.00	98.98	86.65	88.41	1.14	0.98		
SH-44	Can-Ada Rd to Blessinger Ln	1.05	69.40	68.7	68.92	1.01	1.00		
SH-44	Blessinger Ln to Kingsbury Rd	1.01	67.18	66.33	65.85	1.01	1.01		
SH-44	Kingsbury Rd to Lansing Ln	1.03	68.41	68.25	67.55	1.00	1.01	1.07	1.02
SH-44	Lansing Ln to Duff Ln	1.01	68.09	66.55	66.11	1.02	1.01		
SH-44	Duff Lnto Marjorie Ave	0.77	56.20	54.18	52.42	1.04	1.03		
SH-44	Marjorie Ave to Middleton Rd	0.53	52.81	49.33	45.51	1.07	1.08		
SH-44	Middleton Rd to Cemetery Rd	0.75	119.15	99.65	95.16	1.20	1.05		
SH-44	Cemetery Rd to Emmett Rd	1.02	84.82	76.91	74.27	1.10	1.04		
SH-44	Emmett Rd to Old Hwy 30	2.14	144.93	140.55	142.00	1.03	0.99		
SH-44	Old Hwy 30 to I-84 EB ramps	0.25	27.49	25.7	25.92	1.07	0.99		
SH-45	11th Ave/3rd St to 12th Ave/3rd St	0.07	12.61	11.57	5.60	1.09	2.07	1.27	1.09
SH-45	12th Ave/3rd St to 7th	0.29	69.32	36.26	32.79	1.91	1.11		
SH-45	7th Ave to Lake Lowell Ave	1.03	172.47	111.09	105.94	1.55	1.05		
SH-45	Lake Lowell Ave to Iowa Ave	0.56	70.84	57.9	57.29	1.22	1.01		
SH-45	Iowa Ave to Greenhurst Rd	0.44	88.97	51.2	45.57	1.74	1.12		
SH-45	Greenhurst Rd to Ruth Ln	1.55	141.14	133.58	133.75	1.06	1.00		
SH-55 (Northside Blvd)	I-84 WB Ramps to 6th St N	0.25	32.96	23.8	19.84	1.38	1.20	1.33	1.13
SH-55 (Northside Blvd)	6th St N to 1st St N	0.53	46.68	42.99	42.96	1.09	1.00		
SH-55 (Northside Blvd)	1st St N to 3rd St S	0.38	84.80	51.97			1.33		
SH-55	McMillan Rd to Ustick Rd	1.01	129.14	69.09		1.87	1.04	2.22	1.08
SH-55	Ustick Rd to Fairview Ave	0.98	154.55	68.47	68.42	2.26	1.00		
SH-55	Fairview Ave to Franklin Rd	1.00	134.17	78.3	72.14	1.71	1.09		
SH-55	Franklin Rd to St Lukes Ln	0.44	57.13	20.43	18.00	2.80	1.14		
SH-55	St Lukes Ln to I-84 EB Ramps	0.42	86.94	50.42	30.46	1.72	1.66		
SH-55	I-84 EB Ramps to Overland Rd	0.16	56.38	0	11.30	4.99	0.00		
SH-55	SH-44 to Chinden Blvd	1.91	259.59	138.01	129.51	1.88	1.07	1.67	1.07

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SH-55	Chinden Blvd to McMillan Rd	1.01	85.51	67.91	66.04	1.26	1.03	·	_
SH-55	Beacon Light Rd to Floating Feather Rd	0.99	91.78	76.62	64.80	1.20	1.18	1.19	1.10
SH-55	Floating Feather Rd to Hill Rd	0.89	63.30	59.65	58.45	1.06	1.02		
SH-55	Hill Rd to SH-44	0.62	83.65	48.18	40.32	1.74	1.19		
SH-55/ Northside Blvd	US-20/26 to Linden Rd	1.00	79.48	77.14	72.72	1.03	1.06	1.33	1.13
SH-55/ Northside Blvd	Linden Rd to Ustick Rd	1.00	99.07	81.76	72.50	1.21	1.13		
SH-55/ Northside Blvd	Ustick Rd to Cherry Ln	1.00	96.06	90.42	80.20	1.06	1.13		
SH-55/ Northside Blvd	Cherry Ln to Karcher Rd	1.00	114.40	99.61	90.00	1.15	1.11		
SH-55/ Northside Blvd	Karcher Rd to I-84 WB Ramps	0.23	48.52	37.4	23.76	1.30	1.57		
SH-69	Victory Rd to Amity Rd	1.01	99.38	66.46	66.04	1.50	1.01	1.19	1.01
SH-69	Amity Rd to Lake Hazel Rd	1.01	70.85	66.51	66.04	1.07	1.01		
SH-69	Lake Hazel Rd to Columbia Rd	1.00	65.92	66.2	65.59	1.00	1.01		
SH-69	Columbia Rd to Hubbard Rd	1.01	66.69	66.57	66.04	1.00	1.01		
SH-69	Hubbard Rd to Deer Flat Rd	0.99	82.83	66.21	65.00	1.25	1.02		
SH-69	Deer Flat Rd to Kuna Rd	1.03	71.61	67.96	67.16	1.05	1.01		
SH-69/ Main St	Cherry Ln to Pine Ave	0.48		71.06	60.61		1.17		1.10
SH-69/ Main St	Pine Ave to Franklin Rd	0.50		69.41	72.14		0.96	<u> </u>	
SH-69/ Main St	Franklin Rd to Corporate Dr	0.34		40.18	34.97		1.15		
SH-69/ Main St	Corporate Dr to I -84 WB Ramps	0.40		36.41	40.73		0.89		
SH-69/ Main St	I-84 WB Ramps to I-84 EB Ramps	0.17		23	17.07		1.35		
SH-69/ Main St	I-84 EB Ramps to Overland Rd	0.13		14.29	11.54		1.24		
SH-69/ Main St	Overland Rd to Victory Rd	1.01		74.38	69.48		1.07		
State St	15th St to 18th St	0.24	48.78	44.58	28.68	1.09	1.55	1.52	1.08
State St	18th St to 27th St	0.66	106.32	74.54	74.54	1.43	1.00		
State St	27th St to Veterans Parkway	0.93	205.70	98.96	95.35	2.08	1.04		
State St	Veterans Parkway to Collister	0.91	123.05	96.81	93.81	1.27	1.03		
State St	Collister to Pierce Park	1.32	192.08	113.33	105.84	1.69	1.07		
State St	Pierce Park to Glenwood	0.69	87.39	59.9	54.96	1.46	1.09		
Ten Mile Rd	Franklin Rd to Overland Rd	1.01	89.30	80.84	72.72	1.10	1.11	1.09	1.10
Ten Mile Rd	Overland Rd to Victory Rd	1.00	97.60	93.93	90.00	1.04	1.04	•	
Ten Mile Rd	Victory Rd to Amity Rd	1.01	89.04	82.58	72.72	1.08	1.14		
US-20/26	11th Ave N Ext to Franklin Rd	1.02	66.66	66.8	66.57	1.00	1.00	1.18	1.05
US-20/26	Franklin Rd to Northside Blvd	1.01	66.25	66.07	65.85	1.00	1.00		
US-20/26	Northside Blvd to Midland Blvd	1.00	66.32	65.38	65.19	1.01	1.00		
US-20/26	Midland Blvd to Middleton Rd	1.00	103.71	65.3	65.59	1.59	1.00		
US-20/26	Middleton Rd to KCID Rd	0.99	76.09	65.35	64.87		1.01		
US-20/26	KCID Rd to Muller Rd	1.08	97.36	79.2		1.23	1.02		
US-20/26	Muller Rd to I-84 WB ramps	0.20	41.79	32.93	20.67	1.27	1.59		
US-20/26	I-84 WB ramps to I-84 EB off ramp	0.18	27.99	42.28	18.31	0.66	2.31		
US-20/26	Glenwood St to Garrett St	1.09	121.24	98.83	98.07	1.23	1.01	1.75	1.05
US-20/26	Garrett St to Cloverdale Rd	1.84	166.12	137.19		1.21	1.11	1.73	1.03
US-20/26	Cloverdale Rd to Eagle Rd	1.00	216.15	73.45			1.11		
03-20/20	Cioverdale Nu to Layle Nu	1.00	210.13	13.43	00.02	4.74	1.12		

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US-20/26	Eagle Rd to Linder Rd	2.97	427.99	196.14	194.47	2.18	1.01		
US-20/26	13th St to Main St	1.26	98.22	95.95	96.77	1.02	0.99	1.23	1.06
US-20/26	Main St to 36 <sup>th</sup> St	0.48	71.42	50.42	49.58	1.42	1.02		
US-20/26	36th St to Veterans Pkwy	0.65	121.19	78.25	66.65	1.55	1.17		
US-20/26	Veterans Pkwy to Glenwood St	1.96	242.61	208.41	201.09	1.16	1.04		
US-20/26	I-84 EB Ramps to Federal Way	0.69	70.91	60.76	60.21	1.17	1.01	1.48	1.12
US-20/26	Federal Way to Boise Ave	1.07	181.47	115.89	110.06	1.57	1.05	•	
US-20/26	Boise Ave to Beacon St	0.55	98.10	65.58	56.67	1.50	1.16		
US-20/26	Beacon St to Broadway/Myrtle St	0.51	101.40	57.6	52.46	1.76	1.10		
US-20/26	Myrtle St to Front St	0.14	99.53	21.04	14.19	4.73	1.48		
US-20/26	Front/Broadway Ave to Capitol Blvd	0.65	119.24	86.88	66.65	1.37	1.30		
US-20/26	Capitol Blvd to 9 <sup>th</sup> St	0.14	23.43	15.77	14.81	1.49	1.06		
US-20/26	9th St to 13 <sup>th</sup> St	0.29	42.60	29.67	29.62	1.44	1.00		
US-20/26	Linder Rd to Ten Mile Rd	1.00	78.65	66.2	65.13	1.19	1.02	1.26	1.01
US-20/26	Ten Mile Rd to Black Cat Rd	1.00	69.73	65.54	65.52	1.06	1.00		
US-20/26	Black Cat Rd to McDermott Rd	0.99	72.40	64.82	64.67	1.12	1.00		
US-20/26	McDermott Rd to Star Rd	1.01	134.53	66.93	65.91	2.01	1.02		
US-20/26	Star Rd to Can-Ada Rd	0.98	71.18	64.41	63.95	1.11	1.01		
US-20/26	Can-Ada Rd to 11th Ave N	1.02	67.97	66.46	66.44	1.02	1.00		
Ustick Rd	Middleton Rd to RR Crossing	1.28	113.62	109.08	106.92	1.04	1.02	1.27	0.94
Ustick Rd	RR Crossing to Caldwell Blvd	0.35	124.88	42.35	35.49	2.95	1.19	L	
Ustick Rd	Caldwell Blvd to Lake Ave	0.40	63.00	49.96	41.14	1.26	1.21		
Ustick Rd	Lake Ave to Indiana Ave	1.01	166.01	115.83	103.68	1.43	1.12		
Ustick Rd	Indiana Ave to 10th Ave	1.00	136.08	115.4	103.17	1.18	1.12		
Ustick Rd	10th Ave to Kimball Ave	0.25	29.50	29.69	25.82	0.99	1.15		
Ustick Rd	Kimball Ave to Farmway Rd	0.71	93.83	86.13	72.51	1.09	1.19		
Ustick Rd	Farmway Rd to Wagner Rd	0.95	78.33	0	68.40	1.15	0.00		
Ustick Rd	McDermott Rd to Star Rd	1.00	82.83	79.84	72.00	1.04	1.11	1.13	1.12
Ustick Rd	Star Rd to Can-Ada Rd	0.99	87.68	82.08	71.28	1.07	1.15		
Ustick Rd	Can-Ada Rd to 11th Ave N	1.00	79.88	79.15	72.00	1.01	1.10		
Ustick Rd	11th Ave N to Franklin Blvd	1.04	82.52	77.01	74.88	1.07	1.03		
Ustick Rd	Franklin Blvd to Northside Blvd	1.00	90.74	81.84	72.00	1.11	1.14		
Ustick Rd	Northside Blvd to Midland Blvd	1.00	119.68	89.4	72.00	1.34	1.24		
Ustick Rd	Midland Blvd to Middleton Rd	1.00	104.14	74.48	72.00	1.40	1.03		
Ustick Rd	Eagle Rd to Locust Grove Rd	1.00	135.03	0	90.00	1.50	0.00	1.57	0.00
Ustick Rd	Locust Grove Rd to Meridian Rd	1.00	137.37	0	90.00	1.53	0.00		
Ustick Rd	Meridian Rd to Linder Rd	1.00	255.85	0	90.00	2.84	0.00		
Ustick Rd	Linder Rd to Ten Mile Rd	1.01	107.04	0	90.36	1.18	0.00		
Ustick Rd	Ten Mile Rd to Black Cat Rd	1.00	93.78	0	80.00	1.17	0.00		
Ustick Rd	Black Cat Rd to McDermott Rd	1.00	80.85	0	72.00	1.12	0.00		
Vista Ave/ Capitol Blvd/ 9th St	State St to Main St	0.26	63.97	66.84	31.20	0.96	2.14	1.74	1.17

	Descending (East or Northbound) Travel Time Data, 2009											
Name	Description	Distance	Congested Time	Ideal Time	Theoretic Time	SI	SI Prime	SI Weighted Average	SI Prime Weighted Average			
Vista Ave/ Capitol Blvd/ 9th St	Main St to Myrtle St	0.23	118.17	18.43	10.29	6.41	1.79					
Vista Ave/ Capitol Blvd/ 9th St	Myrtle St to University Dr	0.50	97.34	62.03	51.84	1.57	1.20					
Vista Ave/ Capitol Blvd/ 9th St	University Dr to Eastover Rd	0.29	54.77	35.32	30.03	1.55	1.18					
Vista Ave/ Capitol Blvd/ 9th St	Eastover Rd to Kootenai St	0.61	106.26	62.95	62.23	1.69	1.01					
Vista Ave/ Capitol Blvd/ 9th St	Kootenai St to Overland Rd	0.24	86.59	38.88	24.69	2.23	1.57					
Vista Ave/ Capitol Blvd/ 9th St	Overland Rd to Targee St	0.49	62.50	55.47	50.40	1.13	1.10					
Vista Ave/ Capitol Blvd/ 9th St	Targee St to Canal St	0.37	55.05	38.92	38.06	1.41	1.02					
Vista Ave/ Capitol Blvd/ 9th St	Canal St to I-84 EB Ramps	0.48	84.22	51.63	49.37	1.63	1.05					
Vista Ave/ Capitol Blvd/ 9th St	I-84 EB Ramps to Wright St	0.08	32.82	8.31	8.02	3.95	1.04					

IX. Appendix B: Congestion Changes

Table B- 1: Decreases in Congestion Between 2008 and 2009

			Decr	eases in Cor	ngestion (G	reater than	20%)				
Road Name	Location	Direction	City	2003 Category	2004 Category	2005 Category	2006 Category	2007 Category	2008 Category	2009 Category	Percentage Change in SI (2008 to 2009)
US-20/26	I-84 EB off ramp to I-84 WB ramps	Eastbound	Caldwell	New in 2004	Low	Low	Low	Low	High	Low	-73.71%
US-20/26	I-84 WB ramps to I-84 EB off ramp	Westbound	Caldwell	New in 2004	High	High	Medium	Medium	Medium	Low	-69.77%
Vista Ave/ Capitol Blvd/ 9th St	State St to Main St	Southbound	Boise	Low	Low	Low	Low	Low	Medium	Low	-58.53%
Fairview Ave	Milwaukee St to Cole Rd	Eastbound	Boise	Medium	Low	Low	Low	High	Medium	Low	-52.97%
IB-84	16th Ave to Garrity/ Franklin Blvd	Westbound	Nampa	Medium	Low	High	No Data	High	High	Medium	-48.28%
Ustick Rd	Caldwell Blvd to Lake Ave	Westbound	Caldwell	No Data	Low	Low	No Data	High	Medium	Low	-45.41%
Franklin Rd	Franklin Rd/ Can-Ada Rd to Star Rd	Eastbound	Nampa		New in 2006		Low	Medium	High	Medium	-43.71%
US-20/26	Main St to 13 <sup>th</sup> St	Eastbound	Boise	Low	Low	Low	Low	Low	Medium	Low	-43.34%
I-84	Broadway Ave to Vista Ave	Westbound	Boise	Low	Low	High	Low	Medium	High	Low	-41.71%
US-20/26	KCID Rd to Middleton Rd	Eastbound	Caldwell	New in 2004	Low	Low	Low	Medium	High	Low	-39.33%
Franklin Rd	Linder Rd to Ten Mile Rd	Westbound	Meridian		New in 2006		Low	High	Medium	Low	-38.72%
IB-84	I-84 WB Ramps to Flamingo Ave	Westbound	Nampa	High	Medium	Medium	No Data	Low	High	Low	-38.63%
Overland Rd	Cole Rd to Entertainment Ave	Westbound	Boise		New in 2006		Low	High	High	Medium	-38.16%
Ustick Rd	10th Ave to Kimball Ave	Westbound	Caldwell	No Data	Low	Low	No Data	Low	Low	Low	-35.90%
US-20/26	Muller Rd to I-84 WB ramps	Westbound	Caldwell	New in 2004	High	High	High	High	Medium	Low	-34.92%
IB-84	Karcher Rd to Middleton Rd	Westbound	Nampa	Low	Low	Low	Low	Low	Medium	Low	-33.74%
US-20/26	Capitol Blvd to 9 <sup>th</sup> St	Westbound	Boise	Low	Low	Low	Low	Low	Medium	Low	-32.47%
SH-45	Lake Lowell Ave to Iowa Ave	Southbound	Nampa	Low	Low	Low	Low	Low	Medium	Low	-31.34%

	Decreases in Congestion (Greater than 20%)												
Road Name	Location	Direction	City	2003 Category	2004 Category	2005 Category	2006 Category	2007 Category	2008 Category	2009 Category	Percentage Change in SI (2008 to 2009)		
SH-55 (Northside Blvd)	I-84 WB Ramps to 6th St N	Southbound	Nampa	Medium	Low	Medium	Low	Low	Medium	Low	-31.10%		
IB-84	SH-55 to Canyon St	Westbound	Nampa	Low	Low	Low	Low	Low	Medium	Low	-31.02%		
Franklin Rd	Cloverdale Rd to Eagle Rd	Westbound	Meridian	Medium	Medium	High	Low	High	High	Medium	-30.65%		
IB-84	Kimball Ave to 10 <sup>th</sup> Ave	Eastbound	Caldwell	Low	High	High	Low	Low	Medium	Low	-30.25%		
Vista Ave/ Capitol Blvd/ 9th St	University Dr to Myrtle St	Northbound	Boise	Low	-29.81%								
Vista Ave/ Capitol Blvd/ 9th St	Myrtle St to University Dr	Southbound	Boise	Low	Low	Low	Low	Low	Medium	Low	-28.34%		
Cole Rd	S Costco/ Century Way to Victory Rd	Southbound	Boise		New in 2006		No Data	Medium	High	Medium	-27.80%		
SH-21	Federal Way to I-84 EB Ramps	Southbound	Boise		New in 2006	1	Low	Low	Low	Low	-27.71%		
US-20/26	Main St to 36 <sup>th</sup> St	Westbound	Garden City	Medium	Low	High	Low	Low	Medium	Low	-26.36%		
Parkcenter Blvd	Beacon St to Clearwater Ln	Westbound	Boise	Medium	Low	Low	Low	Low	Medium	Medium	-26.17%		
Fairview Ave/ Main St/ Idaho St	W End Boise River Br to 27 <sup>th</sup> St	Eastbound	Boise	Low	Low	High	Medium	Medium	Medium	Low	-25.49%		
State St	Pierce Park Ln to Glenwood St	Westbound	Boise	Medium	Low	Low	Medium	Medium	Medium	Low	-24.41%		
SH-55	I-84 EB Ramps to St Lukes Ln	Northbound	Meridian	Low	Low	High	Medium	Medium	High	High	-23.74%		
SH-69	Hubbard Rd to Deer Flat Rd	Southbound	Kuna	New in 2004	Low	Low	Low	Low	Low	Low	-22.78%		
Five Mile Rd	Franklin Rd to Fairview Ave	Northbound	Boise	Low	Low	High	High	High	Medium	Low	-22.08%		
1-84	Franklin Blvd to Garrity IC	Eastbound	Nampa	Low	High	High	High	High	High	Medium	-21.83%		
Amity Rd	South Side Blvd to S Powerline Rd	Westbound	Nampa		New in 2006	)	No Data	High	Low	Low	-21.83%		
Fairview Ave	Liberty St to Cole Rd	Westbound	Boise	Low	Low	Low	High	High	High	Medium	-21.42%		
IB-84	Flamingo Ave to I-84 WB Ramps	Eastbound	Nampa	High	Low	Low	No Data	Low	Medium	Low	-21.34%		
SH-44	Marigold St to Chinden Blvd	Southbound	Boise	Low	-21.05%								

	Decreases in Congestion (Greater than 20%)													
Road Name	Location	Direction	City	2003 Category	2004 Category	2005 Category	2006 Category	2007 Category	2008 Category	2009 Category	Percentage Change in SI (2008 to 2009)			
Cherry Ln	Can-Ada Rd to 11th Ave N	Westbound	Nampa		New in 2006		Low	Low	Low	Low	-20.22%			
Overland Rd	Entertainment Ave to Cole Rd	Eastbound	Boise		New in 2006		Medium	High	High	High	-20.20%			
Fairview Ave	Cloverdale Rd to Eagle Rd	Westbound	Meridian	Low	Low	Low	Low	Medium	Medium	Low	-20.10%			

Table B- 2: Increases in Congestion Between 2008 and 2009

			Incre	ases in Con	gestion (Gre	eater than 2	20%)				
Road Name	Location	Direction	City	2003 Category	2004 Category	2005 Category	2006 Category	2007 Category	2008 Category	2009 Category	Percentage Change in SI (2008 to 2009)
Fairview Ave/ Main St/ Idaho St	Ave B to 1st St	Westbound	Boise	Low	105.32%						
Franklin Rd	Locust Grove Rd to Main St	Westbound	Meridian	Low	Low	Low	Medium	Medium	Medium	High	104.99%
Vista Ave/ Capitol Blvd/ 9th St	Wright St to I-84 EB Ramps	Northbound	Boise	High	High	High	High	High	Medium	High	104.65%
Franklin Rd	Eagle Rd to Locust Grove Rd	Westbound	Meridian	Low	Low	Low	Low	Low	Low	Medium	71.41%
Franklin Rd	Locust Grove Rd to Eagle Rd	Eastbound	Meridian	High	High	Medium	Low	Low	Low	Medium	70.34%
Overland Rd	Roosevelt St to Orchard St	Westbound	Boise	High	Low	Medium	Low	High	Medium	High	69.48%
IB-84	7th Ave to SH-55	Westbound	Nampa	Low	67.05%						
Franklin Blvd	11th Ave N to I-84 WB Ramps	Northbound	Nampa	Low	Low	Low	Low	Low	Low	Medium	64.11%
State St	Veterans Parkway to 27th St	Eastbound	Boise	Low	Low	Low	Low	Low	Low	Medium	61.62%
SH-44	Horseshoe Bend Rd to SH-55	Westbound	Boise	High	High	Low	Medium	Low	Low	High	61.55%
IB-84	7th Ave to 11th/3 <sup>rd</sup> St	Eastbound	Nampa	Low	60.55%						
Vista Ave/ Capitol Blvd/ 9th St	Kootenai St to Overland Rd	Southbound	Boise	Low	Low	Medium	Low	Low	Low	Medium	58.83%
Ustick Rd	Lake Ave to Caldwell Blvd	Eastbound	Caldwell	No Data	Low	Low	No Data	Low	Low	High	56.42%

			Incre	ases in Con	gestion (Gr	eater than 2	20%)				
Road Name	Location	Direction	City	2003 Category	2004 Category	2005 Category	2006 Category	2007 Category	2008 Category	2009 Category	Percentage Change in SI (2008 to 2009)
Cole Rd	Northview St to Ustick Rd	Northbound	Boise	Low	Low	Low	Low	Low	Low	Medium	55.80%
US-20/26	Ten Mile Rd to Linder Rd	Eastbound	Meridian	New in 2004	Medium	Medium	High	Medium	Low	Medium	55.79%
Fairview Ave	Eagle Rd to Cloverdale Rd	Eastbound	Meridian	Medium	Low	Low	Low	Low	Low	Medium	52.14%
Vista Ave/ Capitol Blvd/ 9th St	Eastover Rd to University Dr	Northbound	Boise	Low	Low	High	High	Low	Medium	High	48.60%
SH-44	Palmer Ln to SH 16	Westbound	Star	New in 2004	Low	Medium	Low	Low	Low	Low	43.33%
Cole Rd	Fairview Ave to Emerald St	Southbound	Boise	Low	Low	Low	Medium	High	Low	Medium	43.07%
Federal Way	Overland Rd to Kootenai St	Northbound	Boise		New in 2006		Low	Low	Low	High	39.81%
Fairview Ave/ Main St/ Idaho St	13th St to 9th St	Eastbound	Boise	High	Low	Low	Medium	Low	Low	Low	38.77%
Overland Rd	Maple Grove Rd to Entertainment Ave	Eastbound	Boise		New in 2006		Low	Low	Low	Low	38.61%
State St	15th St to 18th St	Westbound	Boise	Low	35.09%						
Fairview Ave	Mitchell St to Five Mile Rd	Westbound	Boise	High	Low	High	High	High	Medium	High	35.00%
US-20/26	Myrtle St to Front St	Southbound	Boise	High	Medium	High	High	High	High	High	33.63%
Cole Rd	Overland Rd to Franklin Rd	Northbound	Boise	Low	Low	Low	No Data	Low	Low	Medium	33.51%
Amity Rd	Holly St to SH-45	Westbound	Nampa		New in 2006		No Data	Low	Low	Medium	32.67%
Vista Ave/ Capitol Blvd/ 9th St	Front St to Bannock St	Northbound	Boise	Medium	Low	Medium	Low	High	Low	Medium	32.63%
SH-16	Floating Feather Rd to SH-44	Southbound	Eagle		New in 2006		Low	Low	Low	Low	31.63%
Parkcenter Blvd (Park Blvd)	Broadway Ave to Clearwater Ln	Eastbound	Boise	Low	30.95%						
I-84	Meridian Rd to Ten Mile Rd	Westbound	Meridian	Low	Low	Low	High	No Data	Medium	High	30.85%
Five Mile Rd	Fairview Ave to Franklin Rd	Southbound	Boise	Medium	Low	Medium	Low	Medium	Low	Low	30.57%
Vista Ave/ Capitol Blvd/ 9th St	Targee St to Canal St	Southbound	Boise	Low	30.17%						
SH-69	Amity Rd to Victory Rd	Northbound	Meridian	Low	28.61%						

	Increases in Congestion (Greater than 20%)												
Road Name	Location	Direction	City	2003 Category	2004 Category	2005 Category	2006 Category	2007 Category	2008 Category	2009 Category	Percentage Change in SI (2008 to 2009)		
SH-69	Lake Hazel Rd to Amity Rd	Northbound	Meridian	New in 2004	Low	Low	Low	Low	Low	Low	28.59%		
Ustick Rd	10th Ave to Indiana Ave	Eastbound	Caldwell	No Data	Low	Low	No Data	Low	Low	Low	28.27%		
Parkcenter Blvd (Front St)	Clearwater Ln to Broadway Ave	Westbound	Boise	Low	28.24%								
IB-84	Canyon St to Yale/SH-55	Eastbound	Nampa	Low	27.82%								
Franklin Rd	Star Rd to Can-Ada Rd	Westbound	Nampa		New in 2006		Low	Low	Low	Low	27.36%		
Vista Ave/ Capitol Blvd/ 9th St	University Dr to Eastover Rd	Southbound	Boise	High	Low	Low	Low	Low	Low	Low	27.11%		
SH-55	McMillan Rd to Chinden Blvd	Northbound	Boise	Low	Medium	Medium	Low	High	Medium	High	27.03%		
Ustick Rd	RR Crossing to Caldwell Blvd	Westbound	Caldwell	No Data	Low	Medium	No Data	High	Medium	High	26.63%		
Amity Rd	McDermott Rd to Robinson Rd	Westbound	Nampa		New in 2006		Medium	Low	Low	Low	26.31%		
Ustick Rd	Lake Ave to Indiana Ave	Westbound	Caldwell	No Data	Low	Low	No Data	Low	Low	Low	26.09%		
Fairview Ave/ Main St/ Idaho St	23rd St to 27th St	Westbound	Boise	Low	Low	Low	Medium	Low	Low	Low	25.70%		
SH-55	Franklin Rd to St Lukes Ln	Southbound	Meridian	Low	Low	Low	High	High	Medium	High	25.40%		
I-84	Eagle Rd to Meridian Rd	Westbound	Meridian	Medium	Low	High	High	No Data	High	High	24.32%		
Franklin Rd	Five Mile Rd to Maple Grove Rd	Eastbound	Boise	Low	24.21%								
Fairview Ave/ Main St/ Idaho St	1st St to 6th St	Westbound	Boise	Low	24.11%								
SH-44	Chinden Blvd to Marigold St	Northbound	Boise	Low	Medium	Low	Medium	Medium	Low	Medium	23.84%		
Amity Rd	Happy Valley Rd to Robinson Rd	Eastbound	Nampa		New in 2006		Low	Low	Low	Low	23.65%		
Orchard St	Bond St to I-184 EB Ramp	Southbound	Boise	High	High	High	Medium	Low	Low	Medium	23.63%		
Cole Rd	Franklin Rd to Emerald St	Northbound	Boise	Low	Low	High	No Data	Medium	Low	Low	23.44%		
IB-84	11th/2nd St to 7th Ave	Westbound	Nampa	Low	22.72%								

			Incre	ases in Con	gestion (Gr	eater than 2	20%)				
Road Name	Location	Direction	City	2003 Category	2004 Category	2005 Category	2006 Category	2007 Category	2008 Category	2009 Category	Percentage Change in SI (2008 to 2009)
IB-84	10th Ave to Kimball Ave	Westbound	Caldwell	Low	22.44%						
Fairview Ave/ Main St/ Idaho St	16th St to 13th St	Eastbound	Boise	Low	22.30%						
SH-55	Ustick Rd to Fairview Ave	Southbound	Meridian	Medium	Medium	Low	High	Medium	Medium	High	22.23%
Overland Rd	Curtis Rd to Cole Rd	Westbound	Boise	Low	21.88%						
State St	27th St to 18th St	Eastbound	Boise	Low	21.45%						
SH-55	SH-44 to Chinden Blvd	Southbound	Eagle	Low	Low	Low	Medium	Low	Low	Medium	21.35%
10th Ave	Chicago St to I-84 WB Ramps	Northbound	Caldwell	High	Low	Low	Low	Low	Low	Low	21.32%