

## COMPASS

COMMUNITY PLANNING ASSOCIATION

# Treasure Valley Annual <br> Congestion Management System Report, 2009 

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## I. I ntroduction

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 $6: 30 \mathrm{PM}$ ). 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 ${ }^{\mathbf{1}}$ 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 ${ }^{2}$. 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.

[^0]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 I dentified 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\% |
| 1-84 | Eagle Rd to Meridian Rd | Westbound | Meridian | Ada | 2.26 | 24.32\% |
| 1-84 | 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 <br> (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 I dentified as Congestion Level "High" Since 2003

| Consistently "High" Congestion Roadways |  |  |  |  |  |  |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| Road Name | Description | Direction | City | County | 2009 SI | Percent <br> Change in SI <br> (2008 to <br> $2009)$ |
| Fairview Ave/ Main <br> St/Idaho St | 1st St to Ave B | Eastbound | Boise | Ada | 3.89 | $14.32 \%$ |
| Vista Ave/ Capitol <br> 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 |
|  | Miles | Percent | Miles | Percent | Miles | Percent | Miles | Percent |  |
| 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 |
| $2007{ }^{3}$ | 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 |

[^1]| Descending (West or Southbound) Travel |  |  |  |  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Year | High |  | Medium |  | Low |  | No Data |  | Total Miles |
|  | Miles | Percent | Miles | Percent | Miles | Percent | Miles | Percent |  |
| 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 (SI) Levels Greater than 50\% between 2008 and 2009 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Route | Description | Direction | City | County | Percent Change in SI | Potential Reason(s) ${ }^{4}$ |
| Decrease in Congestion |  |  |  |  |  |  |
| US-20/26 | I-84 EB off ramp to l-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 BIvd/ 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 |  |  |  |  |  |  |
| Fairview Ave/ Main St/ Idaho St | Ave B to 1st St | Westbound | Boise | Ada | 105.32\% | Short section ( $\sim 500$ 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\% | 1-84 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 $11{ }^{\text {th }}$ Ave | Eastbound | Nampa | Canyon | 60.55\% | Non-interconnected signals - City of Nampa manually resets timing every two weeks. |
| Vista Ave/ Capitol BIvd/ 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\% |  |

[^2]
## 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) | * Access Management policies for all congested roadways <br> - Zoning Ordinance Standards <br> - Employer Based Strategies <br> - Access Management policies for all developments along congested roadways | * Intelligent Transportation Systems <br> > Intelligent Transportation Systems <br> * Additional Roadway Capacity <br> * Non-Motorized Mode Improvements <br> * Intersection Improvements <br> * Preferential Based Strategies <br> > New or increased access to transit <br> - Non-Motorized Mode Improvements |
| Long Term (Greater than 5 Years) | - Comprehensive Plan land use strategies <br> > Intermodal Project integration/design <br> > New or increased access to transit <br> > Additional transit services | * Additional Roadway Capacity listed in regional long-range plan <br> > Addition of transit oriented fixed-guide way |

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.

## Transportation Projects

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 I mprovement Program (TIP) CMS Project Ranking

| Scoring Guidelines for Roadways |  |  |
| :---: | :---: | :---: |
| Criterion | Asses sment | Score |
| Congestion Mitigation <br> Congestion as related to the Congestion Management Process <br> (CMP) | Project will mitigate congestion and includes segment in the high congestion category for the last three years. | 10 |
|  | Project will mitigate congestion and includes segment in the high congestion category for the current year. | 7 |
|  | Project will mitigate congestion and includes segment in the medium congestion category for the current year. | 4 |
|  | 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 | $\begin{aligned} & 2003 \\ & \text { Time } \end{aligned}$ | $\begin{aligned} & 2004 \\ & \text { Time } \end{aligned}$ | $\begin{aligned} & 2005 \\ & \text { Time } \end{aligned}$ | $\begin{aligned} & 2008 \\ & \text { Time } \end{aligned}$ | $\begin{aligned} & 2009 \\ & \text { Time } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| 1-84 | 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 |
| $\begin{aligned} & \text { SH-55 (Eagle } \\ & \text { Rd) } \end{aligned}$ | Boise County Line to 1-84 | 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

| Ascending (East or Northbound) Travel Time Data, 2009 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Name | Description | Distance | Congested Time | I deal <br> 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 l-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 |
| $\begin{aligned} & \hline \hline \text { Americana Blvd/ 15th St/ } \\ & \text { 16th St } \end{aligned}$ | 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 |  |  |
| $\begin{aligned} & \text { Americana Blvd/ 15th St/ } \\ & \text { 16th St } \end{aligned}$ | 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 | 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 |  |  |


| 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 |
| 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 |  |  |
| 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 |  |  |
| 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 $27^{\text {th }}$ 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 |  |  |

Ascending (East or Northbound) Travel Time Data, 2009

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Name | Description | Distance | Congested Time | I deal Time | Theoretic Time | SI | SI Prime | SI Weighted Average | SI Prime Weighted Average |
| 1-184 | Jct I-84 to Franklin Rd | 1.08 | 68.64 | 71.68 | 70.95 | 0.96 | 1.01 | 0.99 | 1.01 |
| 1-184 | Franklin Rd to Curtis Rd | 1.46 | 98.71 | 97.22 | 95.30 | 1.02 | 1.02 |  |  |
| 1-184 | 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 |  |  |
| 1-84 | Franklin Blvd to Garrity IC | 1.96 | 160.38 | 108.55 | 108.55 | 1.48 | 1.00 | 1.23 | 1.00 |
| 1-84 | Garrity IC to Ten Mile Rd | 4.06 | 318.64 | 265.42 | 265.42 | 1.20 | 1.00 |  |  |
| 1-84 | Hwy 44 to US 20/26 | 1.16 | 61.88 | 63.97 | 63.97 | 0.97 | 1.00 | 1.07 | 1.00 |
| 1-84 | US 20/26 to IB-84 | 0.73 | 42.59 | 40.38 | 40.38 | 1.05 | 1.00 |  |  |
| 1-84 | IB-84 to 10th St | 0.90 | 50.28 | 49.68 | 49.68 | 1.01 | 1.00 |  |  |
| 1-84 | 10th St to US -20/26 | 1.03 | 60.79 | 57.05 | 57.05 | 1.07 | 1.00 |  |  |
| 1-84 | US-20/26 to Nampa Blvd | 6.31 | 368.40 | 349.7 | 349.70 | 1.05 | 1.00 |  |  |
| 1-84 | Nampa Blvd to Franklin Blvd | 1.02 | 81.23 | 56.55 | 56.55 | 1.44 | 1.00 |  |  |
| 1-84 | Ten Mile Rd to Meridian Rd | 2.01 | 136.23 | 131.37 | 131.37 | 1.04 | 1.00 | 1.47 | 1.00 |
| 1-84 | Meridian Rd to Eagle Rd | 1.99 | 122.87 | 130.32 | 130.32 | 0.94 | 1.00 |  |  |
| 1-84 | Eagle Rd to Five Mile Rd | 2.04 | 116.50 | 112.51 | 113.21 | 1.04 | 0.99 | 1.12 | 0.99 |
| 1-84 | Five Mile Rd to Overland Rd | 2.10 | 122.09 | 115.69 | 116.20 | 1.06 | 1.00 |  |  |
| 1-84 | Overland Rd to Orchard St | 1.86 | 116.71 | 101.55 | 105.37 | 1.15 | 0.96 |  |  |
| 1-84 | Orchard St to Vista Ave | 1.49 | 96.89 | 80.55 | 82.30 | 1.20 | 0.98 | 1.16 | 0.99 |
| 1-84 | Vista Ave to Broadway Ave | 1.00 | 61.38 | 55.81 | 55.50 | 1.10 | 1.01 |  |  |
| 1-84 | Broadway Ave to Gowen Rd | 2.45 | 141.41 | 121.78 | 121.26 | 1.16 | 1.00 |  |  |
| 1-84 | 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 $16^{\text {th }}$ 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 ${ }^{\text {ra }}$ 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 $18^{\text {th }}$ 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 |  |  |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Name | Description | Distance | Congested Time | Ideal 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 l-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 |  |  |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Name | Description | Distance | Congested Time | I deal Time | Theoretic Time | SI | SI Prime | SI Weighted Average | SI Prime Weighted Average |
| 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 |  |  |

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Ascending (East or Northbound) Travel Time Data, 2009

| 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 |
| 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 $7^{\text {nn }}$ 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 $2 \mathrm{nd} / 1^{\text {th }}$ 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 Ln | 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 | 11.54 |  | 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 |  |  |


| 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 |
| 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 ${ }^{\text {th }}$ 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 $13{ }^{\text {th }}$ St | 1.26 | 139.57 | 115.28 | 96.77 | 1.21 | 1.19 |  |  |
| US-20/26 | 13th St to ${ }^{\text {th }}$ 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

| Ascending (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 |
| 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 |  |  |
| 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 BIvd/ 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 BIvd/ 9th St | Front St to Bannock St | 0.27 | 80.20 | 38.03 | 38.16 | 2.11 | 1.00 |  |  |

Table A- 2: Descending Data

| 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 |
| 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 |  |  |
| 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 |  |  |

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| 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 |
| $\begin{aligned} & \text { Fairview Ave/ Main St/ } \\ & \text { Idaho St } \end{aligned}$ | 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 |  |  |

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| 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 |
| 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 |  |  |
| 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 |  |  |
| 1-184 | Franklin Rd to Jct I-84 | 1.08 | 67.10 | 68.42 | 70.95 | 0.98 | 0.96 |  |  |
| 1-84 | Ten Mile Rd to Garrity IC | 4.06 | 289.47 | 265.42 | 265.42 | 1.09 | 1.00 | 1.23 | 1.00 |
| 1-84 | Garrity IC to Franklin Blvd | 1.96 | 141.69 | 108.55 | 108.55 | 1.31 | 1.00 |  |  |
| 1-84 | Franklin Blvd to Nampa Blvd | 1.02 | 65.04 | 56.55 | 56.55 | 1.15 | 1.00 | 1.07 | 1.00 |
| 1-84 | Nampa Blvd to US -20/26 | 6.31 | 364.32 | 349.7 | 349.70 | 1.04 | 1.00 |  |  |
| 1-84 | 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 |  |  |
| 1-84 | IB-84 to US 20/26 | 0.73 | 45.44 | 40.38 | 40.38 | 1.13 | 1.00 |  |  |

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| 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 |
| 1-84 | US 20/26 to Hwy 44 | 1.16 | 67.79 | 63.97 | 63.97 | 1.06 | 1.00 |  |  |
| $1-84$ | Eagle Rd to Meridian Rd | 1.99 | 294.86 | 130.32 | 130.32 | 2.26 | 1.00 | 1.47 | 1.00 |
| 1-84 | Meridian Rd to Ten Mile Rd | 2.01 | 216.58 | 131.37 | 131.37 | 1.65 | 1.00 |  |  |
| $1-84$ | Orchard St to Overland Rd | 1.86 | 124.28 | 100.29 | 105.37 | 1.24 | 0.95 | 1.12 | 0.99 |
| 1-84 | Overland Rd to Five Mile Rd | 2.10 | 120.63 | 117.84 | 116.20 | 1.02 | 1.01 |  |  |
| 1-84 | Five Mile Rd to Eagle Rd | 2.04 | 136.69 | 112.59 | 113.21 | 1.21 | 0.99 |  |  |
| 1-84 | Eisenman Rd to Gowen Rd | 2.58 | 153.26 | 122.03 | 123.74 | 1.26 | 0.99 | 1.16 | 0.99 |
| 1-84 | Gowen Rd to Broadway Ave | 2.45 | 133.70 | 121.05 | 121.26 | 1.10 | 1.00 |  |  |
| 1-84 | Broadway Ave to Vista Ave | 1.00 | 60.25 | 54.4 | 55.50 | 1.11 | 0.98 |  |  |
| 1-84 | 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 $16^{\text {th }}$ 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 | $\begin{aligned} & \text { Garrity/Franklin Blvd to } \\ & 11 \mathrm{th} / 3^{\text {rd }} \mathrm{St} \end{aligned}$ | 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 |
| 1B-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 $21{ }^{\text {st }}$ Ave | 0.71 | 96.47 | 76.65 | 71.38 | 1.26 | 1.07 |  |  |
| IB-84 | 21st Ave to $18{ }^{\text {th }}$ Ave | 0.22 | 30.53 | 24.04 | 22.73 | 1.27 | 1.06 |  |  |
| IB-84 | 18th Ave to $10^{\text {th }}$ 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 | 1.09 | 1.07 |  |  |
| Middleton Rd | Ustick Rd to Center 1-84 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 | 1.25 | 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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| 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 |
| 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 |  |  |
| 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 | $\begin{aligned} & \hline \hline \text { Sandy Point Ln to Discovery } \\ & \text { State Park } \end{aligned}$ | 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 |  |  |
| 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 |  |  |


| 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 |
| 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 J ct 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 l-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 | 39.19 | 1.63 | 1.33 |  |  |
| SH-55 | McMillan Rd to Ustick Rd | 1.01 | 129.14 | 69.09 | 66.17 | 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 l-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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| 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 |
| 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 |  |  |
| 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 | 1-84 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 | 1.16 | 1.01 |  |  |
| US-20/26 | KCID Rd to Muller Rd | 1.08 | 97.36 | 79.2 | 77.87 | 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 | 123.07 | 1.21 | 1.11 |  |  |
| US-20/26 | Cloverdale Rd to Eagle Rd | 1.00 | 216.15 | 73.45 | 65.52 | 2.94 | 1.12 |  |  |


| 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 |
| 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 $36{ }^{\text {th }}$ 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 ${ }^{\text {th }}$ St | 0.14 | 23.43 | 15.77 | 14.81 | 1.49 | 1.06 |  |  |
| US-20/26 | 9th St to $13^{\text {tin }} \mathrm{St}$ | 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 |  |  |
| 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 |



## IX. Appendix B: Congestion Changes

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

| Decreases in Congestion (Greater than 20\%) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Road Name | Location | Direction | City | $2003$ <br> Category | $2004$ <br> Category | $2005$ <br> Category | $2006$ <br> Category | $\begin{gathered} 2007 \\ \text { Category } \end{gathered}$ | $2008$ <br> Category | $2009$ <br> Category | Percentage Change in SI (2008 to $2009)$ |
| US-20/26 | I-84 EB off ramp to I-84 WB ramps | Eastbound | Caldwell | $\begin{gathered} \hline \text { New in } \\ 2004 \end{gathered}$ | Low | Low | Low | Low | High | Low | -73.71\% |
| US-20/26 | I-84 WB ramps to I-84 EB off ramp | Westbound | Caldwell | $\begin{gathered} \hline \text { New in } \\ 2004 \end{gathered}$ | 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 | $\begin{aligned} & \text { Main St to } 13^{\text {th }} \\ & \text { St } \end{aligned}$ | Eastbound | Boise | Low | Low | Low | Low | Low | Medium | Low | -43.34\% |
| 1-84 | 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 $9^{\text {th }}$ 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 | $2003$ <br> Category | $2004$ <br> Category | $2005$ <br> Category | $2006$ <br> Category | $2007$ <br> Category | $2008$ <br> Category | $2009$ <br> Category | Percentage Change in SI (2008 to 2009) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SH-55 <br> (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 $10^{\text {th }}$ 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 | Low | Low | Low | Low | Low | 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 |  | Low | Low | Low | Low | -27.71\% |
| US-20/26 | $\begin{aligned} & \text { Main St to } 36^{\text {tn }} \\ & \text { St } \end{aligned}$ | 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 $27^{\text {th }}$ 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 | Low | Low | Low | Low | Low | Low | -21.05\% |

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Decreases in Congestion (Greater than 20\% )

| Road Name | Location | Direction | City | $2003$ <br> Category | 2004 Category | $2005$ <br> Category | $2006$ <br> Category | $2007$ <br> Category | $2008$ <br> Category | $2009$ <br> 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: I ncreases in Congestion Between 2008 and 2009

| I ncreases in Congestion (Greater than 20\% ) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Road Name | Location | Direction | City | $2003$ <br> Category | $2004$ <br> Category | $2005$ <br> Category | $2006$ <br> Category | $\begin{gathered} 2007 \\ \text { Category } \end{gathered}$ | $2008$ <br> Category | $2009$ <br> Category | Percentage Change in SI (2008 to 2009) |
| Fairview Ave/ Main St/ Idaho St | Ave B to 1st St | Westbound | Boise | Low | Low | Low | Low | Low | Low | 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 | Low | Low | Low | Low | Low | 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'a St``` | Eastbound | Nampa | Low | Low | Low | Low | Low | Low | 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\% |

## I ncreases in Congestion (Greater than 20\%)

| Road Name | Location | Direction | City | $2003$ <br> Category | $2004$ <br> Category | $2005$ <br> Category | $2006$ <br> Category | $2007$ <br> Category | $2008$ <br> Category | $2009$ <br> Category | $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | $\begin{gathered} \hline \text { New in } \\ 2004 \\ \hline \end{gathered}$ | 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 | Low | Low | Low | Low | Low | 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 | Low | Low | Low | Low | Low | 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 | Low | Low | Low | Low | Low | Low | 30.17\% |
| SH-69 | Amity Rd to Victory Rd | Northbound | Meridian | Low | Low | Low | Low | Low | Low | Low | 28.61\% |

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I ncreases in Congestion (Greater than 20\%)

| Road Name | Location | Direction | City | $2003$ <br> Category | 2004 Category | 2005 Category | $2006$ <br> Category | $2007$ <br> Category | $2008$ <br> Category | $\begin{gathered} 2009 \\ \text { Category } \end{gathered}$ | Percentage Change in SI (2008 to 2009) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SH-69 | Lake Hazel Rd to Amity Rd | Northbound | Meridian | $\begin{gathered} \hline \text { New in } \\ 2004 \end{gathered}$ | 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 | Low | Low | Low | Low | Low | Low | 28.24\% |
| IB-84 | Canyon St to Yale/SH-55 | Eastbound | Nampa | Low | Low | Low | Low | Low | Low | 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 | Low | Low | Low | Low | Low | Low | 24.21\% |
| Fairview Ave/ Main St/ Idaho St | 1st St to 6th St | Westbound | Boise | Low | Low | Low | Low | Low | Low | 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 | Low | Low | Low | Low | Low | Low | 22.72\% |

I ncreases in Congestion (Greater than 20\%)

| Road Name | Location | Direction | City | $2003$ <br> Category | $2004$ <br> Category | $2005$ <br> Category | $2006$ <br> Category | $\begin{gathered} 2007 \\ \text { Category } \end{gathered}$ | $2008$ <br> Category | $2009$ <br> Category | $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| IB-84 | 10th Ave to Kimball Ave | Westbound | Caldwell | Low | Low | Low | Low | Low | Low | Low | 22.44\% |
| Fairview Ave/ Main St/ Idaho St | 16th St to 13th St | Eastbound | Boise | Low | Low | Low | Low | Low | LOW | 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 | Low | Low | Low | Low | Low | Low | 21.88\% |
| State St | 27th St to 18th St | Eastbound | Boise | Low | Low | Low | Low | Low | Low | 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\% |


[^0]:    ${ }^{1}$ Sanderson Index (SI) is a ratio of peak travel time to ideal travel time).
    ${ }^{2}$ The maps showing the weighted scores are not included in this year's report.

[^1]:    ${ }^{3}$ 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.

[^2]:    ${ }^{4}$ Potential reasons for changes in travel time offered by Canyon County Highway District, city, ACHD, or ITD technical staff.

