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# 2010 KMPO Base Calibration Travel Demand Model Update

# **Final Documentation**

March 20, 2013

(KMPO Board accepted on December 13, 2012, Minor change; added updated version file name change, page 10, Para. 4.2)



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# Introduction

In 2007, Kootenai County updated the 2007 KMPO (Kootenai Metropolitan Organization) Travel Demand Forecasting VISUM Model. This 2010 update has improved the previous 2007 base model.

The KMPO Model provides the existing 2010 AM and PM peak hour traffic volumes and is used as a base model to project future traffic forecasts for the AM and PM peak hour traffic in the Kootenai County-wide area.

KMPO staff performed the 2010 model update calibration/validation with some guidance and assistance from PTV America, Inc., and Eco Resource Management System Inc. The 2007 KMPO base model was updated to become the 2010 KMPO base model. The majority of the 2007 modeling components were left as they were in the last update. This documentation outlines what has been changed since the last 2007 model update.

Travel demand forecasting models update the existing base year model every year or every other year or every five years depending on the land use growth and transportation improvements in the modeling area. This is because the traffic volume on streets and roadways change due to the changes in the land use and the transportation system.

The 2010 KMPO model update is expected to revalidate the 2007 existing base year model to reflect the most current 2010 conditions. In addition, since the 2007 version, the 2010 KMPO model application added some enhancements that were found necessary to improve the 2010 KMPO model and forecasting capabilities.

Basic technical information about the 2007 KMPO VISUM model is provided in the "Kootenai County (KMPO) – 2007 KMPO Base Calibration Travel Demand Model Update Documentation."

This report is focused on the 2010 KMPO travel demand model update, including enhancements.

In this KMPO 2010 model update, KMPO technical staff made the following changes, which are addressed in the fourteen sections of this report as shown below:

- 1. 2010 Model Geography
- 2. 2010 KMPO Model Data Sources
- 3. 2010 KMPO Model Background
- 4. KMPO Model Procedures
- 5. 2010 KMPO Land Use Update
- 6. 2010 AM & PM Peak Hour Trip Generation Update
- 7. 2010 Traffic Analysis Update (TAZ)
- 8. 2010 KMPO Auto Network Enhancements
- 9. Traffic Counts
- 10. AM/PM Peak Hour Trip Generation
- 11. AM/PM Peak Hour Trip Distribution
- 12. AM/PM Peak Hour Traffic Assignments
- 13. AM/PM Peak Hour Traffic Screenline Validation



14. Model Limitations and Improvements

More detailed technical specifications and model update descriptions are provided to assist the KMPO model users in their understanding of the model applications, data input and output, and validation results.

Attached appendices illustrate even more technical information related to the VISUM model script and parameter files, and the 2010 AM/PM peak hour detailed screenline validation spreadsheets.

# 1.0 2010 Model Geography

- Kootenai County Area
- County 2010 Population 138,494
- Model Vehicle Miles Traveled (VMT) 332,273 miles, in the model network classified at the collector classification or higher
- Total 2010 Occupied Dwelling Units 54,199



# 2.0 2010 KMPO Model Data Sources

Data from many agencies are compiled and analyzed for input into the travel demand model. The model is used for transportation travel demand forecasting. Ensuring that the most accurate, reliable and available data is used as well as having a well calibrated and validated model, is vitally important for accurate travel demand forecasting. KMPO uses the following data sources for input into the model:

- A regional household survey is used to estimate current travel behavior. KMPO's most recent survey was performed in 2005 and can be found on our website (<u>www.kmpo.net</u>), listed under Maps/Data/Publications/Spokane and Kootenai County Regional Travel Survey 2005. Household surveys are typically done every 10 years
- US Census Bureau Decennial data (every 10 years) for population, housing and Transportation Analysis Zones (TAZ's) information based currently on the block level. The interim years are calculated based on historical growth
- Idaho Department of Labor for current employment data
- Kootenai County for current housing statistics and Geographical Information Systems (GIS) data
- Building Permits from local jurisdictions
- Additional information that is not readily available is obtained from local sources such as: school & college enrollment, number of rooms in hotels/motels, casino's parking spaces, recreation number of camping spaces, etc.)
- Comprehensive Plans from Kootenai County and Local Jurisdictions
- Traffic Counts
- Real Estate Reports and other verified published professional reports for reasonableness checks



# 3.0 2010 KMPO Model Background

The Kootenai Metropolitan Planning Organization (KMPO) was formed in 2003. The first KMPO traditional four step travel demand model for the AM Peak Hour and the PM Peak Hour was developed by KMPO staff and PTV of America in 2003.

The typical gravity demand model is called a four step model and is based upon: Trip Generation, Trip Distribution, Mode Choice and Route Assignment. Mode choice is made up of private cars, public transit such as buses, and/or non-motorized travel. The KMPO model is currently a three step model, having only one mode choice which is private vehicles. This mode choice feature is planned to be expanded upon in the future adding other mode choices.

The model was updated in 2005 by PTV of America.

In 2007 the model was updated by HDR Inc. and recently has been updated for 2010 by KMPO staff with assistance from Eco Resource Management Systems Inc. and PTV of America.

# 4.0 KMPO Model Procedures

# 4.1 KMPO Calculate Procedures (Step by Step)

As shown in Figure 1, the KMPO "Calculate Procedure" (a step by step procedure) is used in lieu of the previous KMPO Graphic Users Interface (GUI) for output files for the AM and PM peak hour traffic forecasts in the Kootenai County area. Using the Calculate Procedures allows partial model runs (such as only the AM Peak hour) as well as visual checks to see and understand how each step is performing, which can be missed when running a GUI behind the scenes.

Count: 142	ecuti	Active	Procedure	Reference object(s)	Variant/file	Comment
1		×	ate Prcedures Updated by Ro	2 - 47		Capacity calculation - Calculate Prcedure
2	$\triangleright$	×	Initialize all filter settings			
3		×	Read filter		TSysCar.fil	
4		×	Edit attribute	Links - CapPrT		Set Link Capacity, Lanes * Cap/Lane
5		×	Edit attribute	Connectors - T0_TSYS(C)		Test to set Connector Time
6		×	Read filter		TWLTL-3Lane.fil	3 Lane Road
7		×	Edit attribute	Links - CapPrT		Add 300 directional capacity
8		×	Read filter		TWLTL-5Lane.fil	5 Lane Road
9		×	Edit attribute	Links - CapPrT		Add 150 directional capacity
10		×	Read filter		Fwy_GT_2_Lanes.fil	3+ Lane Fwy
11		×	Edit attribute	Links - CapPrT		Add Cap for 3 Lane + Fwy
12		×	Edit attribute	Nodes - K4		Set All K4 = 1.0
13		×	Read filter		ActiveLinksNodes.fil	Start Node Computations
14		×	Edit attribute	Nodes - CapPrT		Add all outbound link capacities
15		×	Read filter		ActiveLinksNodes-3plusLegs.fil	3 Plus Leg Nodes
16		×	Edit attribute	Nodes - K4		
17		×	Read filter		ActiveLinksNodes-2Leg.fil	
18		×	Edit attribute	Nodes - K4		
19		×	Read filter		ActiveLinksNodes-3Leg.fil	
20		×	Edit attribute	Nodes - K4		
21		×	Read filter		ActiveLinksNodes-4Leg.fil	
22		×	Edit attribute	Nodes - K4		
23		×	Read filter		ActiveLinksNodes-5Leg.fil	
24		×	Edit attribute	Nodes - K4		
25		×	Read filter		NodeCapacityFinalComputations.fil	
26		×	Edit attribute	Nodes - CapPrT		
27		×	Read filter		Turns-LT-TH-RT-Only.fil	Turns-LT-TH-RT-Only.fil
28		×	Edit attribute	Turns - CapPrT		Reset Turn Capacities
29		×	Edit attribute	Turns - t0PrT		Reset Turn T0=0
30		×	Read filter		SingleLeftTurnsSignalsTwoWayStops.fil	Single Left Turns
31		×	Edit attribute	Turns - t0PrT		T0=6Secs
32		×	Edit attribute	Turns - CapPrT		TurnCap=300
33		×	Read filter		DualLeftTurnsSignalsTwoWayStops.fil	Dual Left Turns
34		×	Edit attribute	Turns - CapPrT		TurnCap=275*NumLanes
35		×	Read filter		Uncontrolled_Intersections.fil	Set Uncontrolled Controls
36		×	Edit attribute	Nodes - ControlType		1-Uncontrolled
37		×	Read filter		Stop_2_Way_Intersections.fil	Set 2 Way Stop
38		×	Edit attribute	Nodes - ControlType		2-Partial Stop
39		×	Read filter		Yield_2_Way_Intersections.fil	Set Yield

Figure 1 KMPO Calculate Procedures (Step by Step)

### 4.2 KMPO Calculate Procedures Parameter Files

Project directory – KMPO Project dir file.pfd (shown in Appendix 1A) is a VISUM project directory file, which specifies where the model runs.

Base Version – KMPO\_2010\_FINAL DRAFT Base\_12-3-12.ver is a 2010 Base KMPO VISUM Model version file in the project directory. The base model was validated and later resaved in VISUM Version 12-52-09 and renamed as KMPO\_2010\_FINAL\_Base\_3-20-13.ver. This includes the updated 2010 land uses and 2010 existing roadway network.

Node Link Capacity Update – UpdateNodeLinkCapTWTL.par (shown in Appendix 1B) is a link and node capacity update parameter file.



AM & PM Peak Assignment – Is included in the "KMPO-Final Calculate Procedures File AM\_PM.par" (shown in Appendix 1C). This file combines the AM & PM peak hour model runs into one parameter file that feeds the trip generation, trip distribution, and trip assignment model run for each peak hour time period.

AM/PM Peak Hour Trip Generation - The trip generation rates were updated using ITE trip generation rates. The trip generation rates are built-in to the Trip Generation assignment portion of the AM & PM Peak Calculate Procedures assignment.par file (mentioned above).

The trip generation for household stratifications: HBW, HBR, HBO, HBS and NHB, match the 2005 Kootenai County Travel Survey trips (trips grown from 2005 to 2010).

#### 4.3 KMPO Final Model Version Output File

Final Version – "KMPO\_2010\_FINAL\_Base\_3-20-13" is a final 2010 Base KMPO VISUM Model version file saved in the project directory after the completed AM/PM Peak Hour Model runs.

#### 4.4 KMPO Calculate Procedures Model Run Comments

After the completed final model run, the Calculate Procedures comment area displays comments shows whether the model executed properly with success along with; start time, end time, duration, and any comments showing changes found or errors encountered. The final base model ran correctly with no errors or comments as shown in Figure 2 below:

	-   🙌 🌐 🕕 📗 📰 🚍 🅦 Select G		- ]] @		1.0	Proce	edure sequence 🔹 🕞 🗁 🖓
ation: 1		Executed	Success	StartTime EndTime	Duration	Messages	ResultMessage
1	Capacity calculation - Calculate Procedu	×	×	12/3/2012 5 12/3/2012 5	Omin		
2		×	×	12/3/2012 5 12/3/2012 5	Omin		
3		×	X	12/3/2012 5 12/3/2012 5	Omin		
4	Set Link Capacity, Lanes * Cap/Lane	×	×	12/3/2012 5 12/3/2012 5	Omin		Links: 681 objects were subject to changes.
5	Test to set Connector Time	×	×	12/3/2012 5 12/3/2012 5	Omin		No object was subject to changes.
6	3 Lane Road	×	×	12/3/2012 5 12/3/2012 5	Omin		
7	Add 300 directional capacity	×	×	12/3/2012 5 12/3/2012 5	Omin		Links: 253 objects were subject to changes.
8	5 Lane Road	×	×	12/3/2012 5 12/3/2012 5	Omin		
9	Add 150 directional capacity	×	×	12/3/2012 5 12/3/2012 5	Omin		Links: 375 objects were subject to changes.
10	3+ Lane Fwy	×	×	12/3/2012 5 12/3/2012 5	Omin		
11	Add Cap for 3 Lane + Fwy	×	X	12/3/2012 5 12/3/2012 5	Omin		Links: 60 objects were subject to changes.
12	Set All K4 = 1.0	×	X	12/3/2012 5 12/3/2012 5	Omin		Nodes: 655 objects were subject to changes.
13	Start Node Computations	×	X	12/3/2012 5 12/3/2012 5	Omin		
14	Add all outbound link capacities	×	X	12/3/2012 5 12/3/2012 5	Omin		Nodes: 654 objects were subject to changes.
15	3 Plus Leg Nodes	×	×	12/3/2012 5 12/3/2012 5	Omin		
16	And a second secon	×	X	12/3/2012 5 12/3/2012 5	Omin		Nodes: 483 objects were subject to changes.
17		×	X	12/3/2012 5 12/3/2012 5	Omin		
18		×	×	12/3/2012 5 12/3/2012 5	Omin		Nodes: 31 objects were subject to changes.
19		×	×	12/3/2012 5 12/3/2012 5	Omin		
20		×	×	12/3/2012 5 12/3/2012 5	Omin		Nodes: 382 objects were subject to changes.
21		×	×	12/3/2012 5 12/3/2012 5	Omin		
22		×	×	12/3/2012 5 12/3/2012 5	Omin		Nodes: 239 objects were subject to changes.
23		×	×	12/3/2012 5 12/3/2012 5	Omin		
24		×	×	12/3/2012 5 12/3/2012 5	Omin		Nodes: 3 objects were subject to changes.
25		×	X	12/3/2012 5 12/3/2012 5	Omin		
26		×	8	12/3/2012 5 12/3/2012 5	Omin		Nodes: 654 objects were subject to changes.
27	Turns-LT-TH-RT-Only.fil	×	8	12/3/2012 5 12/3/2012 5	Omin		
28	Reset Turn Capacities	×	X	12/3/2012 5 12/3/2012 5	Omin		Turns: 1237 objects were subject to changes
29	Reset Turn T0=0	×	X	12/3/2012 5 12/3/2012 5	Omin		Turns: 1237 objects were subject to changes
30	Single Left Turns	×	×	12/3/2012 5 12/3/2012 5	Omin		
31	T0=6Secs	×	×	12/3/2012 5 12/3/2012 5	Omin		Turns: 1237 objects were subject to changes
32	TurnCap=300	×	×	12/3/2012 5 12/3/2012 5	Omin		Turns: 1237 objects were subject to changes
33	Dual Left Turns	×	×	12/3/2012 5 12/3/2012 5	Omin		
34	TurnCap=275*NumLanes	×	×	12/3/2012 5 12/3/2012 5	Omin		Turns: 23 objects were subject to changes.
35	Set Uncontrolled Controls	×	×	12/3/2012 5 12/3/2012 5	Omin		
36	1-Uncontrolled	×	×	12/3/2012 5 12/3/2012 5	Omin		No object was subject to changes.
37	Set 2 Way Stop	×	×	12/3/2012 5 12/3/2012 5	0min		
38	2-Partial Stop	×	8	12/3/2012 5 12/3/2012 5	Omin		No object was subject to changes.

Figure 2 KMPO Calculate Procedures Model Run Comments

#### 4.5 KMPO Python Scripting

The python model script file was omitted from this update since it was created to run the GUI, which was eliminated.



### 4.6 KMPO Trip Generation Adjustment

The trip generation adjustment that was made to the 2007 model update was also eliminated. The adjustment was another methodology used to adjust the number of trips in the model. It was determined that it was unnecessary in the current model update.



# 5.0 2010 KMPO Land Use Update

After reviewing the statistical data reporting of the Idaho Department of Labor (DOL) and the 2007 KMPO AM and PM peak hour trip generation rates in Table 1 and Table 2 (page 5) of the "Kootenai County (KMPO) 2007 KMPO Base Calibration Travel Demand Model Update Documentation," KMPO decided to re-classify the land use categories to more closely match the way that the Idaho DOL reports the employment data. This allows KMPO to more easily match up to the Idaho DOL labor statistics for comparisons. One difference noted is that the Idaho DOL reports a few unanticipated employees under government workers. This is noted under the land use documentation binder, "2010 Model Update Documentation". The trip generation rates remained the same, just moved to a different classification. The classifications that incurred changes are noted in 5.1 & 5.2 below:

Land use data are important inputs to travel demand forecasting models because land uses generate travel activities and demands. To make accurate travel demand forecasts, modelers should strive to verify the accuracies of land use data in the traffic analysis zones (TAZ). KMPO staff took several rounds of land use reviews and verifications with local jurisdictions to ensure no errors exist in the land use data by TAZ.

# 5.1 Land Use Classification Changes

In the previous 2007 KMPO model, sixteen land use categories were made based on NAICS codes. In the 2010 KMPO land use update, all of the previous land use classifications 1 through 6 remained the same. Some abbreviations were changed or added to simplify the coding in the model attributes. Land use categories were modified as outlined in 2.0 through 2.9, for a total of twenty three land use categories as shown in the following land use classifications were modified, added or changed from the last 2007 update:

#### Figure 3 KMPO Land Use Classifications

#### 2010 KMPO Land Use Update

**LU1 - (SFDU) Single Family Residential** includes those lands occupied by a single family home, duplex, or a manufactured home on a single lot. During calibration, this category was divided and single family uses in "outer zones" moved to Land Use category LU9 - Outer SFDU. LU1 is measured in single family dwelling units.

LU2 - (MFDU) Multi-Family Residential uses contain five or more residential units on a parcel of land. This category also includes mobile home parks, apartment buildings, and condominiums. LU2 is measured in multi-family dwelling units.

LU3 - (RET) Retail includes a broad range of establishments which sell goods directly to the general public, such as general commercial, home furnishings, food stores, direct selling establishments or other products. NAICS codes 441110 - 448320 & 451110 - 454390. LU3 is measured in employees.

LU4 – (FIRES) Finance, Insurance, Real Estate Rental & Leasing includes Commercial banking, financing, investment brokers, savings institutions, credit unions, investment advice, insurance carriers, real estate, rental and leasing, passenger car rental, recreational rentals, commercial air rail and water transportation, video tape and disc rental and other related companies. NAICS codes 521110 – 525990 & 531110 - 533110. LU4 is measured in employees.

LU5 - (INDUST) Industrial includes Mining, Manufacturing and Wholesale sectors which comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. This also includes the wholesale trade sector which comprises establishments engaged in wholesaling merchandise, generally without transformation, and rendering services Incidental to the sale of merchandise. The categories are mining operations, processing plants, packaging, mills, foundries, machining, wholesale goods merchants and wholesale trade agents and brokers. NAICS codes include 211111 – 213115, 311111 – 316998, 321113 – 327999, 331110 – 339999 & 423110 - 425120. LU5 is measured in number of employees.

LU6 - (SCH) Schools which include elementary and secondary schools. LU6 is measured in number of students, (manually derived).

LU7 - (ACCOM) Accommodations includes all hotel and motel establishments. NAICS codes 721110 - 721214. Hotels, Motels, bed/breakfast inns and room/board houses. Measured by number of rooms (manually derived).

LU8 - (AER) Arts, Entertainment and Recreation includes theater companies and dinner theatres, musical groups and artists, sports teams and clubs, racetracks, museums, zoos, amusement and theme parks, casinos, marinas, golf courses, recreation centers, bowling centers, RV Parks and campgrounds and other amusement and recreation industries. NAICS codes 71110 - 713990. Measured by number of spaces (manually derived).

LU9 - (OSFDU) Outer Single Family Residential includes those lands occupied by a single family home, duplex, or a manufactured home on a single lot outside the urban area. Units from classification LU1 were moved to this category for zones 1-17, 182-185, 187, 188, 192-213, and 215. LU9 is measured in outer single family dwelling units (rural).

LU10 - (PSS) Post-Secondary School included Colleges, Universities, Computer, Trade, and Other Professional Schools. LU10 is measured by number of students (manually derived).

LU11 - (AGRI) Agriculture includes NAICS code 111110 - 115310 and is measured in number of acres.

LU12 - (WFRT) Waterfront Units includes dwelling units on the water such as houseboats. LU12 is measured in dwelling units. Not included in Land Use at this time (future).

LU13 - (POL) Publicly owned land includes that land that is owned by the public, such as forest and BLM land. LU13 is measured in acres. KMPO used Kootenai County GIS parcel data to establish acreages within each TAZ area.

LU14 – (TRNWH) Transportation & Warehousing includes the Postal Service, Couriers and express delivery services, local messengers and delivery, general, farm & refrigerated warehousing and storage. This category includes the Transportation and Warehousing sector which comprises industries providing transportation passengers and cargo, warehousing and storage for goods, scenic and sightseeing transportation, and support activities related to modes of transportation. NAICS codes 481111 – 488999 & 491110 - 493190. LU14 is measured in employees.

LU15 - (MED) Medical is described in as the Health Care and Social Assistance sector which comprises establishments providing health care and social assistance for individuals. NAICS codes 621111 - 624410 (Note: Kootenai Medical Final Board Approved Land Use August 9, 2012

#### KMPO Land Use Updated Classifications (Continued)

#### 2010 KMPO Land Use Update

Center -KMC Employees are not reported under this section by DOL, but instead are under LU 16 Government). In the travel demand model, KMC employees will remain in LU 15 (MED) to maintain the same trip generation rates. LU15 is measured in number of employees.

LU16 - (GOVT) Government includes establishments of federal, state, and local government agencies that administer, oversee, and manage public programs and have executive, legislative, or judicial authority over other institutions within a given area (KMC medical employees are reported under this LU, by Idaho DOL), Measured in number of employees. NAICS codes 921110 - 928120.

LU17 – (ASWMR) Administrative and Support and Waste Management and Remediation Services includes office administrative services, temporary help services, telemarketing, collection agencies, visitor's bureaus, locksmiths, landscaping services, solid waste collection, landfills, incinerators, septic tank services and related industries. Measured in number of employees. NAICS codes 561110 – 562998.

LU18 – (PSTMC) Professional, Scientific & Technical Services & Management of Companies & Enterprises includes Offices of Notaries, Payroll services, testing laboratories, technical design services, outdoor advertising, etc. Measured in number of employees. NAICS codes 541110 – 541990 & 551111 – 551114.

LU19 – (EDUSRV) Education Services include support staff in elementary and secondary schools, junior colleges, business and secretarial schools, miscellaneous training schools and education support services. Measured in number of employees. NAICS codes 611110 – 611710.

LU20 - OTHER Services (Except Public Administration) includes automotive repair, appliance repair and maintenance, diet centers, funeral homes, laundry services, photo finishing laboratories, religious organizations, civic and social organizations, business associations, political organizations, parking lots and garages and other miscellaneous services. NAICS codes 811111 – 814110. Measured in employees.

LU21 – (INFO) Information includes newspaper companies, software publishers, recording studios, radio stations, telecommunications and libraries. Measured in number of employees. NAICS codes 511110 – 519190.

LU22 – (UTLCONST) Utilities & Construction includes power generation, transmission and distribution by: hydroelectric, fossil, solar, wind, geothermal, biomass, electric, gas and other. Also, includes water supply, steam and air-conditioning supply and sewage treatment facilities, construction of new homes, highway, street and bridge construction, contractors for: structural steel framing, roofing, siding, painting, flooring, site preparation and all other specialty trade contractors. NAICS codes 221111 – 221330 & 236115 - 238990. Measured in number of employees.

LU23 - (FS) Food Services includes caterers, mobile food services, full service restaurants, drive thru's, bars, cafeterias and buffets. NAICS codes 722110 - 722410, measured by number of employees.

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# 5.2 2010 Land Use Summary

After KMPO staff updated the 2010 land use by TAZ, a control total check was made to ensure that the primary residential dwelling units match the local US Decennial census data. Table 1 shows the total 2010 land use data.

As shown in Table 1, the 2010 household number should be less than the sum of SFDU + MFDU + OUTER SFDU, which is 30,967 + 8127 + 15,105 = 54,199 total occupied dwelling units countywide. The 2010 US Decennial Census reported a total of 63,177 total housing units with an overall vacancy rate of 14.2%. The following is a summary of the land uses and totals obtained from the 2010 US Decennial Census, the Idaho Department of Labor and other sources manually obtained by KMPO staff through email correspondence, phone calls or the internet:

Land Use Type	Total Units in KMPO Area	Units of Measurement
LU1: SFDU (Single Family Dwelling Units)	30,967	Dwelling Units
LU2: MFDU (Multi-Family Dwelling Units)	8,127	Dwelling Units
LU3: Retail	7,559	Employees
LU4: Commercial (FIRES)	2.889	Employees
LU5: Industrial	5,392	Employees
LU6: Schools	23,232	Students
LU7: Accommodations	2,900	Rooms
LU8: Arts, Entertainment & Recreation	19,266	Spaces
LU9: Reserved for Outer Zone SFDU	15105	Dwelling Units
LU10: Post Secondary Schools	11,833	Students
LU11: Agriculture	783,898	Acres
LU12: Waterfront Units	Not Used	Dwelling Units
U13: Publicly owned lands	301,783	Acres
LU14: Transportation & Warehousing	925	Employees
LU15: Medical	7,907	Employees
LU16: Government	2,824	Employees

#### Table 1: 2010 KMPO Land Use Data Summary



Land Uses Added to correlate closer to the Idaho Department of Labor statistics reporting:

LU 17: Administration & Support3,346 EmployeesLU 18: Professional, Science & Technology2,210 EmployeesLU19: Educational Services3,804 EmployeesLU 20: Other Services1,187 EmployeesLU 21: Information714 EmployeesLU 22: Utilities & Construction3,844 EmployeesLU 23: Food Services4,228 Employees

Note: FIRES stands for Finance, Insurance, Real Estate and Services



# 6.0 2010 AM & PM Peak Hour Trip Generation Rate Update

Table 2 shows the AM peak hour trip generation rates, based on ITE trip generation rates, which are applied in the "calculate procedures" parameter file under the 2010 KMPO AM Peak Hour Model Run.

Table 3 shows the PM peak hour trip generation rates, based on ITE trip generation rates, which are applied in the "calculate procedures" parameter file under the 2010 KMPO PM Peak Hour Model Run.



#### Table 2: Updated AM Peak Hour Trip Rates in 2010 KMPO AM Model

LU	ATT	нพ-о	HW-D	wн-о	WH-D	HR-O	HR-D	RH-O	RH-D	но-о	HO-D	он-о	OH-D	HS-O	HS-D	SH-O	SH-D	NHB-O	NHB-D	Total-O	Total-D	TOT O+D
1	SFDU	0.21945	0	0	0.02376	0.03534	0	0	0.01368	0.1425	0	0	0.1062	0.16074	0	0	0.036	0.01197	0.00036	0.57	0.18	0.75
2	MFDU	0.143451	0	0	0.0115368	0.0231012	0	0	0.0066424	0.089424	0	0	0.051566	0.11178	0	0	0.01748	0.0048438	0.0001748	0.3726	0.0874	0.46
3	RETAIL	0	0.11742	0.026574	0	0	0.11742	0.048719	0	0	0	0	0	0	0	0	0	0.367607	0.35226	0.4429	0.5871	1.03
4	FIRES	0	0.14014	0.004784	0	0.00598	0.024024	0	0	0	0.12012	0.0598	0	0	0	0	0	0.049036	0.116116	0.1196	0.4004	0.52
5	INDUST	0	0.153	0.006	0	0	0	0	0	0	0.102	0.024	0	0	0	0	0	0.03	0.085	0.06	0.34	0.4
6	SCH	0	0.022848	0.002688	0	0	0	0	0	0	0	0	0	0	0.262752	0.0672	0	0.064512	0	0.1344	0.2856	0.42
7	АССОМ	0.0144	0.0162	0.0144	0	0	0	0	0	0	0.0486	0.0432	0	0	0	0	0	0.216	0.0972	0.288	0.162	0.45
8	AER	0	0.055125	0.00105	0	0	0	0	0	0	0.063	0.034125	0	0	0	0	0	0.017325	0.039375	0.0525	0.1575	0.21
9	OSFDU	0.138908	0	0	0.0104544	0.0223696	0	0	0.0060192	0.0902	0	0	0.046728	0.1017456	0	0	0.01584	0.0075768	0.0001584	0.3608	0.0792	0.44
10	PSS	0	0.00984	0.000432	0	0	0	0	0	0	0	0	0	0	0.08856	0.0108	0	0.010368	0	0.0216	0.0984	0.12
11	AGRI	0	0.001575	0.000075	0	0	0	0	0	0	0.000875	0.0006	0	0	0	0	0	0.000825	0.00105	0.0015	0.0035	0.005
12	Not Used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	POL	0	0.0001995	0.0000215	0	0	0	0	0	0	0.000171	0.000301	0	0	0	0	0	0.0001075	0.0001995	0.00043	0.00057	0.001
14	TRNWH	0	0.1862	0.0228	0	0	0	0	0	0	0.1596	0.0912	0	0	0	0	0	0.114	0.1862	0.228	0.532	0.76
15	MED	0	0.1575	0.045	0	0	0	0	0	0	0.135	0.27	0	0	0	0	0	0.135	0.1575	0.45	0.45	0.9
16	GOVT	0	0.18788	0.00366	0	0	0	0	0	0	0.16104	0.04758	0	0	0	0	0	0.02196	0.18788	0.0732	0.5368	0.61
17	ASWMR	0	0.14469	0.004664	0	0.00583	0.02067	0	0	0	0.12402	0.0583	0	0	0	0	0	0.047806	0.12402	0.1166	0.4134	0.53
	PSTMC	0	0.14469	0.004664	0	0.00583	0.02067	0	0	0	0.12402	0.0583	0	0	0	0	0	0.047806	0.12402	0.1166	0.4134	0.53
	EDUSRV	0	0.14469	0.004664	0	0.00583	0.02067	0	0	0	0.12402	0.0583	0	0	0	0	0	0.047806	0.12402	0.1166	0.4134	0.53
_	OTHER	0	0.14469	0.004664	0	0.00583	0.02067	0	0	0	0.12402	0.0583	0	0	0	0	0	0.047806	0.12402	0.1166	0.4134	0.53
-	INFO	0	0.14469	0.004664	0	0.00583	0.02067	0	0	0	0.12402	0.0583	0	0	0	0	0	0.047806	0.12402	0.1166	0.4134	0.53
-	UTLCONST	0	0.1862	0.0228	0	0	0	0	0	0	0.1596	0.0912	0	0	0	0	0	0.114	0.1862	0.228	0.532	0.76
23	FS	0	0.11742	0.026574	0	0	0.11742	0.053148	0	0	0	0	0	0	0	0	0	0.363178	0.35226	0.4429	0.5871	1.03
	XI-O-AM	0.19	0	0.08	0	0.05	0	0.03	0	0.22	0	0.1	0	0.18	0	0.06	0	0.09	0	1	0	1

Note: Numbers rounded in table



#### Table 3: Updated PM Peak Hour Trip Rates in 2010 KMPO PM Model

LU	ATT	HW-O	HW-D	wн-о	WH-D	HR-O	HR-D	RH-O	RH-D	но-о	HO-D	он-о	OH-D	HS-O	HS-D	SH-O	SH-D	NHB-O	NHB-D	Total-O	Total-D	TOT O+D
1	SFDU	0.0144618	0	0	0.171399	0.053991	0	0	0.093241	0.29386	0	0	0.38051	0.001928	0	0	0.021939	0.021403	0.018511	0.385648	0.685597	1.0712456
2	MFDU	0.0075735	0	0	0.09801	0.028274	0	0	0.053317	0.15389	0	0	0.21758	0.00101	0	0	0.012937	0.011209	0.010193	0.20196	0.39204	0.594
3	RETAIL	0	0.02208	0.1196	0	0	0.15456	0.2392	0	0	0.15456	0.07176	0	0	0	0	0	0.76544	0.7728	1.196	1.104	2.3
4	FIRES	0	0.007208	0.13992	0	0	0.01802	0.06996	0	0	0.25228	0.41976	0	0	0	0	0	0.06996	0.082892	0.6996	0.3604	1.06
5	INDUST	0	0.00666	0.0407	0	0	0	0	0	0	0.08325	0.10175	0	0	0	0	0	0.06105	0.07659	0.2035	0.1665	0.37
6	SCH	0	0.0012	0.0189	0	0	0	0	0	0	0.015	0.009	0	0	0.0018	0.0315	0	0.0306	0.042	0.09	0.06	0.15
7	ACCOM	0	0.005076	0.04324	0	0	0	0	0	0	0.15228	0.14053	0	0	0	0	0	0.03243	0.096444	0.2162	0.2538	0.47
8	AER	0	0.0014208	0.015392	0	0	0	0	0	0	0.049728	0.050024	0	0	0	0	0	0.011544	0.019891	0.07696	0.07104	0.148
9	OSFDU	0.0059063	0	0	0.073125	0.02205	0	0	0.03978	0.12002	0	0	0.16234	0.000788	0	0	0.00936	0.008741	0.007898	0.1575	0.2925	0.45
10	PSS	0	0.001536	0.009072	0	0	0	0	0	0	0.0192	0.00432	0	0	0.002304	0.01512	0	0.014688	0.05376	0.0432	0.0768	0.12
11	AGRI	0	0.000015	0.0007	0	0	0	0	0	0	0.0006	0.0014	0	0	0	0	0	0.0014	0.000885	0.0035	0.0015	0.005
12	WFRT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	POL	0	0.0000043	0.000114	0	0	0	0	0	0	0.000301	0.000399	0	0	0	0	0	0.000057	0.000125	0.00057	0.00043	0.001
14	TRNWH	0	0.00456	0.1292	0	0	0	0	0	0	0.057	0.323	0	0	0	0	0	0.1938	0.05244	0.646	0.114	0.76
15	MED	0	0.020172	0.14514	0	0	0	0	0	0	0.35301	0.43542	0	0	0	0	0	0.14514	0.131118	0.7257	0.5043	1.23
16	GOVT	0	0.003239	0.09322	0	0	0	0	0	0	0.22673	0.27966	0	0	0	0	0	0.09322	0.093931	0.4661	0.3239	0.79
17	ASWMR	0	0.003604	0.13992	0	0	0.01802	0.06996	0	0	0.25228	0.41976	0	0	0	0	0	0.06996	0.086496	0.6996	0.3604	1.06
18	PSTMC	0	0.003604	0.13992	0	0	0.01802	0.06996	0	0	0.25228	0.41976	0	0	0	0	0	0.06996	0.086496	0.6996	0.3604	1.06
19	EDUSRV	0	0.003604	0.13992	0	0	0.01802	0.06996	0	0	0.25228	0.41976	0	0	0	0	0	0.06996	0.086496	0.6996	0.3604	1.06
20	OTHER	0	0.003604	0.13992	0	0	0.01802	0.06996	0	0	0.25228	0.41976	0	0	0	0	0	0.06996	0.086496	0.6996	0.3604	1.06
21	INFO	0	0.003604	0.13992	0	0	0.01802	0.06996	0	0	0.25228	0.41976	0	0	0	0	0	0.06996	0.086496	0.6996	0.3604	1.06
22	UTLCONS	0	0.0057	0.1292	0	0	0	0	0	0	0.0798	0.323	0	0	0	0	0	0.1938	0.0285	0.646	0.114	0.76
23	FS	0	0.01104	0.1196	0	0	0.1656	0.2392	0	0	0.1656	0.07176	0	0	0	0	0	0.76544	0.76176	1.196	1.104	2.3
	XI-O-PM	0.03	0	0.14	0	0.06	0	0.1	0	0.24	0	0.3	0	0	0	0.01	0	0.12	0	1	0	1
	IX-D-PM	0	0.03	0	0.13	0	0.1	0	0.06	0	0.3	0	0.24	0	0	0	0.01	0	0.13	0	1	1

Note: Numbers rounded in table



# 7.0 2010 Traffic Analysis Zone (TAZ) Update

Another major network update to the base model are the TAZ's and the centroid connector revisions. The 2010 US Decennial Census required MPO's to revise the TAZ boundaries based on certain requirements of population or employment densities and to match the block level. Due to this recommendation by the US Census Bureau, some TAZ's were split, some were added and some were re-numbered to meet the recommended criteria.

Within each TAZ are centroid connectors extending out from the center of the TAZ to a point on the roadway that loads trips from all of land uses within that zone onto the roadway network. Centroid connectors are coded in travel demand models to emulate local driveways for vehicle trips to access and egress the TAZ centroid. Many of the connectors were affected by the revision of the TAZ's due to the 2010 US Census requirements. The jurisdictions reviewed the TAZ changes as well as the connectors and made changes to the connector locations and/or percentages where they felt it was necessary.



# 8.0 2010 KMPO Auto Network Enhancements

Between 2007 and 2010, several roadway improvement projects were made in the KMPO area. The 2010 roadway network should include these improvements to reflect what's on the ground in 2010. Updates were made to the project list by the jurisdictions and the changes were reflected in the base model network for any projects already existing in the year 2010.

#### 8.1 Link Types/Capacities Update

The link capacities were updated in the network to simulate the travel patterns in the region. The link types and capacity ranges are listed in Table 4 below:

	2010 Base Model Link Capac	ities & Rai	nges
Link	NAME	CAPPRT	Range
Type #			
1	Rural Freeway	1800	1800-2000
11	Urban Interstate	2000	
25	Urban Principal Arterial I	1600	1500-1600
70	Urban Principal Arterial II	1500	
3	Rural Principal Arterial Type II	1400	1200-1400
4	Rural Principal Arterial I	1200	
47	Rural Minor Arterial I	1000	900-1000
69	Rural Minor Arterial 2	900	
19	Local Street	500	500
9	Rural Local Street	500	500
43	Rural Minor Collector I	600	600
10	Rural Major Collector I	800	800
45	Urban Minor Arterial II	900	900-1600
23	Urban Minor Arterial I	1600	
24	Urban Collector Arterials I	1000	600-1000
49	Urban Collector Arterials II	600	
50	Ramps	1500	1000-1800
51	Rural Ramps	1000	
52	Rural Highways	1800	
57	Urban Ramp I	1600	

 Table 4:
 Link Type Classifications & Capacities

# 8.2 Node Types Update

The node types were updated from the previous model versions. These were modified to represent current practice in Table 5 below:

Node		Node Capacity Equation (vph) C = K <sub>1</sub> + K <sub>4</sub> * (Ent. Capacity)					
Туре	Node Description						
		<b>K</b> <sub>1</sub>	K <sub>4</sub>				
1	Shape Nodes		1.00				
2	Centroid Connector Nodes		1.00				
5	Ramp Diverge		1.00				
6	Ramp Merge	-1500	1.00				
7	At-Grade Rail Crossing (UPRR 5-7 Trains/Day)		1.00				
8	At-Grade Rail Crossing (BNSF – up to 70 Trains/Day)		1.00				
10	All – Way Stop		0.45-0.60				
11	Partial Stop Control (Two Way Stop)		0.45-0.70				
12	Yield Control		0.50-0.60				
13	Uncontrolled Intersections		0.45-0.70				
20	Signalized Intersections		0.45-0.70				
22	Pedestrian Only Signal or Mid-Block Crosswalk with large volume		-				
99	Future Intersections		1.00				

#### Table 5: Node Type Classifications & Capacity Factors

Note:  $K_4$  factor variances listed for the node types above are calculated and are dependent upon the incoming and outgoing link capacities within the intersection (see 8.4 below). The factors are calculated internally within the "Calculate Procedures" for links and nodes.

# 8.3 Node Control Types

Control Type	Description
0	Unknown
1	Uncontrolled
2	2 Way Stop
3	Signalized
4	All Way Stop

 Table 6:
 KMPO Node Control Types

# 8.4 Node Capacities

Using capacities at all nodes is one of VISUM's three options to model delays based upon traffic congestion at the intersections. This feature has been incorporated into the KMPO model so that delays at these critical points on the network can be modeled to reflect the impacts upon traffic flow patterns.

For this model, VISUM calculates preliminary node capacities using the following node equation:

#### Cap. = $K_1 + K_4$ (Ent. Cap)

where:

Cap.	= Intersection capacity
K1	= Capacity Constant added or subtracted in computation
K4	<ul> <li>Capacity Factor multiplied by sum of entering link capacities</li> </ul>
Entr. Cap.	= Sum of entering Capacities from all links entering the node

Node capacities for this model use the  $K_1$  and  $K_4$  constants.  $K_4$  was used to simulate the effect that a green time-to-cycle length (G/C) ratio has at an intersection.

Table 5 lists the capacity constraints for the VISUM node capacity equations. The capacities work with the node coefficients to compute the delay at each intersection depending on the volume of entering traffic. When adding or editing nodes it is important that the  $K_1$  and  $K_4$  constants be properly modified, for this reason, the calculation was built into the calculate procedures parameter file and is automatically updated at the beginning of each model run.



# 8.5 Network Link/Node Delay Function Calibration

The link and node delay functions use the BPR function in this update as recommended by the ERMSI.

olume-delay function parameters	Facilie
Fype BPR	•
Function	
$t_{\rm cur} = t_0 \cdot \left(1 + a \cdot {\rm sat}^b\right)$	
Where sat $= rac{q}{q_{ m max} \cdot c}$	
Parameters	
a = 1 b = 3 c = 1	
Closed	
	OK Cancel
	OK

Figure 4: Link Volume-Delay Functions

Intersection node delay functions were revised, as shown in Figure 5 below, for the arterial and local street traffic turning volumes.

eneral procedure settings										_						
PrT settings	Node	types										N	olume	-delay	functions	
Volume-delay functions		*0	*1	*2	*3	*4	*5	*6	*7	*8	*9			No	Function	
Impedance Assignment	0*	1	1	1	1	1	1	6	6	6	1		1	1	TMODEL Nodes (0.00 1.00 0.00	
Skims	1*	10	11	1	10	1	1	1	1	1	1		2	2	Constant	
Node impedances	2*	20	21	1	1	1	1	- 1	1	1	1		3	6	TMODEL Nodes (0.00 3.80 30.0	
Turns VDF		_		_	_		_	_	_	-	-		4	10	TMODEL_Nodes (3.00 3.60 30.0	
… Nodes VDFNode impedance calculation	3*	1	1	1	1	1	1	1	1	1	1		5	11	TMODEL Nodes (6.00 3.60 30.0	
- Signal cycle and split optimizati	4*	1	1	1	1	1	1	1	1	1	1		6	20	TMODEL_Nodes (1.20 3.60 30.0	
Blocking back model	5*	1	1	1	1	1	1	1	1	1	1		7	21	TMODEL_Nodes (0.00 3.60 30.0	
Analysis time slots Volumes	6*	1	1	1	1	1	1	1	1	1	1		<u> </u>			
volumes	7*	1	1	1	1	1	1	1	1	1	1					
	8*	1	1	1	1	1	1	1	1	1	1					
	9*	1	1	1	1	1	1	1	1	1	1					
						-	-	-	-	-	-					
	VDF f	for sel	ected	cells									Cri	eate	Edit Delete	
												-				
III >>															ОК	Ca





# 8.6 2010 External Trip Update

In the 2010 KMPO model, the trips coming from and to external areas are not based on the land use data for trip generation but instead are based on the existing 2010 directional traffic counts at the external stations. Fourteen external stations (TAZ 576 – TAZ 591) were used in the 2010 KMPO model to conceptually represent external TAZs.

Table 6 lists all of AM and PM peak hour directional traffic count data at each of the external TAZs. Note X-I stands for "from External to Internal" and vice versa.

Table 7 and Table 8 respectively list the 2010 AM and PM peak hour external-external through trips, which were also extracted from the external traffic counts and adjusted using the VISUM T-Flow Fuzzy method as input to the 2010 KMPO model. (The VISUM T-Flow Fuzzy process adjusts the demand matrices to better match the actual traffic counts).

# 8.7 2010 Link Traffic Count Update

The 2010 AM and PM peak hour traffic counts were coded by KMPO staff in the KMPO model for the purpose of model validation. Regression analyses can be directly performed by using the model volumes to compare with the peak hour traffic counts.

Counts for other time periods were also coded by KMPO staff, such as: AM Peak Period (6 AM – 9 AM), Mid-day Period (9 AM – 3 PM), PM Peak Period (3 PM – 6 PM), Night Period (6 PM – 6 AM), and 24-Hour Daily Period (6 AM – 6 AM), which will be used to verify the daily volume forecasts.

### 8.8 Model's External Traffic Analysis Zone (TAZ) Update

The external stations exist at the model borders and are used to simulate traffic entering and exiting the travel demand model. Actual traffic counts were used at each external TAZ station and then adjusted using the VISUM T-Flow Fuzzy process to correct the internal model matrices to match the counts. A travel demand model uses matrices to calculate the trip generation and distribution from a trip origin to a trip destination. Table 6 shows the adjusted counts at the external to internal (X-I) and internal and external (I-X) count locations for both the AM PK Hr and PM PK Hr time frames. Tables 8 & 9 respectively show the internal matrices that correspond to the external to external TAZ's (travel beginning at one external TAZ and exiting at the other external TAZ location).

TAZ					
#	Location	XI-O-AM	IX-D-AM	XI-O-PM	IX-D-PM
576	State Hwy. 41 - N. County Line	61	99	169	244
577	US 95 - N. County Line	216	206	349	426
578	Bayview Road - N. County Line	13	11	25	19
580	E. Canyon Road - E. County Line	3	4	9	5
581	I-90 - E. County Line	179	182	327	343
582	Future	0	0	0	0
583	State Hwy. 3 - S. County Line	41	72	86	41
584	Heyburn Rd S. County Line	12	7	10	15
585	US 95 - S. County Line	81	199	316	237
586	W. Worley West Rd W. County Line	1	2	1	1
587	State Hwy. 58 (E. Hoxie Rd.) - W. County Line	42	42	105	160
588	W. Riverview Drive - W. County Line	61	87	25	56
589	I-90 - W. County Line	1115	2073	2166	1684
590	Seltice Way - W. County Line	378	388	478	458
591	State Hwy. 53 (Trent Ave.) - W. County Line	144	353	497	279
TOTAL	S	2347	3725	4563	3968

Table 7: 2010 AM/PM Peak Hour Counts (Adjusted using T-Flow Fuzzy method) at External TAZs



2010	AM Peak Hour External-	Externa	l Throug	h Traffic	Volume	es										
TAZ																
No.	Name	576	577	578	580	581	582	583	584	585	586	587	588	589	590	591
	State Hwy 41 - North															
576	County Line	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.82	0.00	0.13	134.32
	US 95 - North County															
577	Line	0.00	0.00	0.00	9.17	63.35	0.00	0.10	0.0	3.72	0.00	0.87	0.00	0.00	0.0	0.00
	Bayview Rd North															
578	County Line	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00
	East Canyon Rd East															
580	County Line	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.81	0.0	0.00
581	I-90 East County Line	0.00	0.34	0.00	0.00	0.00	0.00	0.02	0.0	0.00	0.00	0.00	0.00	71.84	0.0	0.00
582	FUTURE (Not Used)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00
	State Hwy 3 - South															
583	County Line	0.00	0.08	0.00	0.40	2.51	0.00	0.00	0.0	0.00	0.00	0.00	0.00	5.00	0.0	0.00
	Heyburn Rd South															
584	County Line	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.02	0.00	0.00	0.0	0.00
	US 95 - South County															
585	Line	0.00	60.68	0.00	0.00	4.52	0.00	0.00	0.00	0.00	0.00	19.57	0.49	1.75	0.0	0.00
	Worley West Road -															
586	West County Line	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.0	0.00
	State Hwy 58 (East															
507	Hoxie Rd.) West															
587	County Line	0.00	24.06	0.00	0.00	0.00	0.00	0.00	0.0	33.08	0.00	0.00	0.21	0.00	0.0	0.00
500	West Riverview Drive -									0.04						
588	West County Line	0.00	3.02	0.00	0.02	0.14	0.00	0.00	0.0	0.01	0.00	0.00	0.00	0.00	0.0	0.00
589	I-90 West County Line	0.00	0.00	0.00	0.30	26.76	0.00	0.00	0.0	0.21	0.00	0.00	0.00	0.01	0.0	0.00
500	Seltice Way - West		0.05	0.05	0.00	0.00	0.00	0.00		0.00	0.00	0.05	0.00	0.00		
590	County Line	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00
	State Hwy 53 (Trent															
F01	Ave.) West County	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00
591	Line	30.18	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00

Table 8: 2010 AM Peak Hour External-External Through Traffic Volumes

			2	040 00					<b>.</b>	- <b>-</b>						
			2	010 PIV	г Реак н	IOUR EXT	ernal-Ex	ternal	Inroug	h Traffic	volum	es				
TAZ																
No.	Name	576	577	578	580	581	582	583	584	585	586	587	588	589	590	591
	State Hwy 41 - North															
576	County Line	0.00	0.00	0.00	0.07	0.09	0.00	0.06	0.04	0.07	0.03	0.08	0.17	0.10	0.16	0.70
	US 95 - North County															
577	Line	0.00	0.00	0.00	0.90	1.28	0.00	0.15	0.49	0.43	0.34	0.30	0.13	0.49	0.01	0.03
	Bayview Rd North															
578	County Line	0.00	0.00	0.00	0.18	0.02	0.00	0.15	0.10	0.17	0.07	0.20	0.13	0.00	0.00	0.01
	East Canyon Rd East															
580	County Line	0.08	0.41	0.11	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.16	1.77	0.32	0.25
581	I-90 East County Line	0.10	0.63	0.01	0.00	0.00	0.00	0.14	0.02	0.21	0.00	0.12	0.06	67.71	0.30	0.26
582	FUTURE (Not Used)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	State Hwy 3 - South															
583	County Line	0.04	0.07	0.06	0.25	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.01	7.67	0.03	0.03
	Heyburn Rd South															
584	County Line	0.10	0.46	0.12	0.00	0.28	0.00	0.00	0.00	0.00	0.52	0.43	0.01	0.32	0.03	0.02
	US 95 - South County															
585	Line	0.34	0.93	0.40	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.29	0.00	7.22	0.04	0.04
	Worley West Road -															
586	West County Line	0.06	0.28	0.07	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	State Hwy 58 (East															
	Hoxie Rd.) West County															
587	Line	0.37	0.33	0.43	0.00	0.00	0.00	0.00	0.77	0.13	0.00	0.00	0.00	0.21	0.01	0.02
	West Riverview Drive -															
588	West County Line	0.14	0.00	0.00	0.11	0.06	0.00	0.01	0.12	0.04	0.00	0.00	0.00	0.00	0.00	0.01
589	I-90 West County Line	0.42	0.62	0.01	0.79	67.66	0.00	9.07	1.03	22.53	0.10	0.00	0.00	0.00	0.00	0.00
	Seltice Way - West															
590	County Line	1.05	0.02	0.01	0.16	0.21	0.00	0.03	0.14	0.12	0.00	0.08	0.00	0.00	0.00	0.00
	State Hwy 53 (Trent															
591	Ave.) West County Line	1.16	0.02	0.01	0.08	0.14	0.00	0.02	0.00	0.04	0.00	0.03	0.01	0.00	0.00	0.00

Table 9: 2010 PM Peak Hour External-External Through Traffic Volumes

K<u>ootenai</u>



# 9.0 Traffic Counts

Existing 2007 and 2008 traffic counts were grown up to the update year of 2010 to be used for the 2010 KMPO base model validation. The existing traffic count data had previously been collected during normal travel patterns, taken in 15 minutes increments, 24 hours a day, for a five day period (Monday through Friday), in the spring and/or fall of the years 2007 or 2008.

Traffic counts are checked for errors and consistency to ensure they are accurate. Traffic counts taken exclude: weekends, holidays, vacation days, and construction. Three out of the five days of data are then averaged for each of the following model periods: AM period (6 AM - 9AM), AM peak hour (7 - 8 AM), Midday (9 AM - 3 PM), PM period (3 PM - 6 PM), PM Peak hour (5 PM - 6 PM) and the Nighttime period (6 pm - 6 am), as previously mentioned in chapter 8.4. Any suspect counts (example: tube malfunctioned) during that time period are excluded and another day will be used to calculate the average. The AM Peak Hour, PM Peak Hour, AM Period and PM Period actual traffic counts are used to validate the modeled traffic volumes and are discussed later in the "Screenline Validation" section of this documentation.

A traffic count analysis was also performed using the Idaho Transportation Department's (ITD) Automatic Traffic Recorder (ATR) data analysis, over the last 20 year period from 1990 to 2010. During the five year period from 2005 to 2010, the analysis showed an average growth rate of 2.34% per year and the more recent analysis between the years 2008 to 2010 showed an average growth rate of 1.06% per year. While the ATR count data reflects the mainline regional traffic growth, it may not accurately reflect local roadway network growth. An estimated 2% per year was used, as a fair and reasonable compromise to grow the existing 2007/2008 traffic counts to 2010.



# 10.0 AM/PM Peak Hour Trip Generation

The KMPO VISUM model trip generation is categorized by four primary trip purposes. After the AM and PM peak hour trip generation model is run, the total KMPO region-wide trip productions and attractions are summarized to compare with the expanded travel survey samples reported in the "Spokane and Kootenai County Regional Travel Survey Final Report."

NuStats was contacted during this model update to separate out the actual AM Pk Hr, PM Pk Hr and School trip percentages from the 2005 travel survey that was done. Previously, the survey report excluded this specific peak hour information and was estimated in the prior 2007 model update. The calculated 2010 trip generation rates were then checked against the 2005 Kootenai County/Spokane County travel survey results for both the AM and PM Peak Hour time frames.

### 10.1 AM Peak Hour Trip Generation Validation

Table 10 lists the 2010 AM peak hour trip generation model percentages results compared with the actual AM peak hour (7 AM - 8 AM) trips as reported by NuStats.

The AM peak hour model results show reasonable comparison with the survey results as the percentage of modeled vehicle trips that exclude the external inbound, outbound, and through trips. The 2005 Kootenai County/Spokane Travel survey percentages were used to calculate the trip generation rates in the model.

TRIP PURPOSE	AM-PK HR % of Trips Modeled 2010 Base Model	AM PK HR of 2005 Trips Reported by NuStats
Home Based Work	24.1%	25.2%
Home Based Retail	5.1%	5.3%
Home Based Other	29.3%	28.2%
Non-Home Based	21.8%	20.7%
School – not		
included in other		
trip purposes	19.7%	20.6%
Total	100%	100%

Table 10: 2010 AM Peak Hour Trip Generation Validation Results



### **10.2 PM Peak Hour Trip Generation Validation**

Table 11 lists the 2010 PM peak hour trip generation model percentages results compared with the actual PM peak hour (5 PM - 6 PM) trips as reported by NuStats.

The PM peak hour model results show reasonable comparison with the survey results as the modeled vehicle trips that exclude the external inbound, outbound and through trips. The 2005 Kootenai County/Spokane Travel survey percentages were used to calculate the trip generation in the model. The trip generation rates were then checked against the 2005 Kootenai County/Spokane County travel survey results.

TRIP PURPOSE	PM-PK HR % of Trips Modeled 2010 Base Model	PM PK HR of 2005 Trips Reported by NuStats
Home Based Work	13.4%	13.4%
Home Based Retail	10.8%	10.6%
Home Based Other	47.6%	48.1%
Non-Home Based	26.5%	26.2%
Schools - not		
included in other		
trip purposes	1.7%	1.7%
Total	100%	100%

 Table 11: 2010 PM Peak Hour Trip Generation Validation Results



# 11.0 AM/PM Peak Hour Trip Distribution

The KMPO VISUM model trip distributions by four primary trip purposes are based on Gravity Model functions. The a, b, and c parameters in the Gravity Model functions are re-calibrated in the 2010 KMPO model to fit the trip length distribution patterns in terms of frequencies and average travel times reported in the "Spokane and Kootenai County Regional Travel Survey Final Report."

### 11.1 AM Peak Hour Gravity Model Parameters

Figure 6 displays the AM PK HR home-based work gravity model function parameters and other trip distribution characteristics, such as: direction of the trip distribution balance to production; doubly constrained balancing by Multi procedure; multi-parameters with maximum number of iterations being 10 and quality factor being 3.

Function type	Parameters		
Logit: f(U) = e <sup>(cU)</sup>	а	-0.1	
Kirchhoff: f(U) = U <sup>c</sup> c BoxCox: f(U) = e <sup>c</sup> [c (U <sup>b</sup> -1) / b]	ь	1.7	
Combined: f(U) = a U <sup>b</sup> c <sup>2</sup> (c U)	c	5	
<ul> <li>TModel: f(U) = 1 / (U<sup>b</sup> + cU<sup>a</sup>)</li> </ul>			
Direction of the distribution			
<ul> <li>Constrained production</li> </ul>			
Constrained attraction			
Doubly constrained: Balancing by multi-proc			
Initial matrix balancing according to	Multi-parameters		
Productivity total			
C Attractivity total	Max. number of iterations	10	
Mean of both sums			
Minimum of both sums	Quality factor	3	
G14 1 11 11			
Maximum of both sums			
Maximum of both sums			

Figure 6: AM PK HR Home-Based Work Gravity Model Functions



Figure 7 below, displays the AM PK HR Home-Based Retail gravity model function parameters and other trip distribution characteristics discussed above.

	i graph		
<ul> <li>BoxCox:</li> <li>Combined</li> <li>TModel:</li> </ul>	f(U) = e^(c U) f(U) = U^c f(U) = e^ [c (U^b -1) / b] f(U) = a U^b e^(c U)	Parameters a b c	0 27 0
<ul> <li>Constrain</li> <li>Doubly of Initian</li> </ul>	ed production ed attraction onstrained: Balancing by multi-procedu Il matrix balancing according to Productivity total	re Multi-parameters Max. number of iterations	10
-		Max. Hamber of Relations	
© 0	Attractivity total Mean of both sums Minimum of both sums Maximum of both sums	Quality factor	3

Figure 7: AM PK HR Home-Based Retail Gravity Model Functions

Figure 8 below, displays the AM Home-Based Other gravity model function parameters and other trip distribution characteristics.

ptions Function	graph			
<ul> <li>Function type</li> <li>Logit:</li> <li>Kirchhoff:</li> <li>BoxCox:</li> <li>Combined:</li> <li>TModel:</li> </ul>	f(U) = e^ [c (U^b -1) / b]	Parameters a c	0 2.7 0	
Doubly co	d attraction nstrained Balancing by multi-procedu matrix balancing according to oductivity total	re Multi-parameters Max. number of iterations	10	
<u></u> м	lean of both sums linimum of both sums laximum of both sums	Quality factor	3	

Figure 8: AM PK HR Home-Based Other Gravity Model Functions



Figure 9 below, displays the AM PK HR Non-Home-Based gravity model function parameters and other trip distribution characteristics.

	graph		
BoxCox:	f(U) = e^(c U) f(U) = U^c f(U) = e^ [c (U^b -1) / b] f(U) = a U^b e^(c U)	Parameters a b c	0 28 0
		6	
Initial © P	matrix balancing according to roductivity total ttractivity total	Multi-parameters Max. number of iterations	10
	ean of both sums inimum of both sums	Quality factor	3
0 M	aximum of both sums		

Figure 9: AM PK HR Non-Home-Based Gravity Model Functions

Figure 10 below, displays the AM PK HR Home-Based School gravity model function parameters and other trip distribution characteristics.

ions Function graph			
Function type	Parameters		
Logit: f(U) = e^(c U)	a	0	
$\bigcirc$ Kirchhoff: $f(U) = U^{c}$	b	2.7	
BoxCox: f(U) = e <sup>^</sup> [c (U <sup>b</sup> -1) / b] Combined: f(U) = a U <sup>b</sup> e <sup>^</sup> (c U)	c	0	
TModel: f(U) = 1 / (U <sup>b</sup> + cU <sup>a</sup> )			
-			
Direction of the distribution			
Constrained production			
Constrained attraction			
Doubly constrained: Balancing by multi-proc	edure		
Initial matrix balancing according to	Multi-parameters		
Productivity total	Max. number of iterations	10	
Attractivity total	max. rumber or iterations	100	
Mean of both sums	Quality factor	3	
Minimum of both sums			
Maximum of both sums			

Figure 10: AM PK HR Home-Based School Gravity Model Functions



	Trip Distribution Parameter		
Trip Purpose	а	b	С
HB-Work	-0.1	1.7	5
HB-Retail	0	2.7	0
HB-Other	0	2.7	0
Non-Home Based	0	2.8	0
HB-School	0	2.7	0

The trip distribution utility parameters are summarized in Table 12 below:

Table 12: Trip Distribution Utility Parameters AM PK HR

### 11.2 PM Peak Hour Gravity Model Parameters

Figure 11 displays the PM PK HR home-based work gravity model function parameters and other trip distribution characteristics, such as: direction of the trip distribution balance to production; doubly constrained balancing by Multi procedure; multi-parameters with maximum number of iterations being 10 and quality factor being 3.

Options Function graph Function type $\Box Logit$ $f(U) = e^{c}(c U)$ $\boxtimes Kirchhoff: f(U) = U^{c}c$ $\boxtimes BoxCox: f(U) = e^{c}(c (U^{b} \cdot 1) / b)$ $\Box Combined: f(U) = a U^{c}b e^{c}(c U)$ $\textcircled{O} TModel: f(U) = 1 / (U^{c}b + c U^{c}a)$ Direction of the distribution	Parameters a b c	-0.1 1.4 5	
Constrained production     Constrained attraction     Z Doubly constrained: Balancing by multi-procedu	ле		
Initial matrix balancing according to Productivity total Attractivity total Mean of both sums Minimum of both sums Maximum of both sums	Multi-parameters Max. number of iterations Quality factor	10 3	
	Reset		K Cancel

Figure 11: PM PK HR Home-Based Work Gravity Model Functions



Figure 12 displays the PM PK HR Home-Based Retail gravity model function parameters and other trip distribution characteristics discussed above.

ptions Function graph		
Function type           Logit         f(U) = e^(c U)           Kirchhoff:         f(U) = U^c           BoxCox:         f(U) = c^(c (U^b - 1) / b)           Combined:         f(U) = a U^b b^(c U)           TModet:         f(U) = 1 / (U^b + c U^a)	Parameters a b c	0 2.4 0
Constrained production     Constrained attraction      Doubly constrained: Balancing by multi-     Initial matrix balancing according to     Productivity total     Attractivity total		10
Mean of both sums	Quality factor	3

Figure 12: PM PK HR Home-Based Retail Gravity Model Functions

Figure 13 displays the PM PK HR Home-Based Other gravity model function parameters and other trip distribution characteristics.

ptions Function	n graph			
BoxCox:	f(U) = e^(cU) f(U) = U^c	Parameters a b c	0 2.4 0	
<ul> <li>Constrain</li> <li>Constrain</li> <li>Doubly of</li> </ul>	f(U) = 1 / (U^b + c U^a) he distribution ned production ned attraction constrained: Balancing by multi-procedu			
© © ©	al matrix balancing according to Productivity total Attractivity total Mean of both sums Minimum of both sums Maximum of both sums	Multi-parameters Max. number of iterations Quality factor	10 3	

Figure 13: PM PK HR Home-Based Other Gravity Model Functions

Figure 14 displays the PM PK HR Non-Home-Based gravity model function parameters and other trip distribution characteristics.



Function typ Logit Kirchhoff BoxCox: Combine TModel: Direction of Constra Constra Doubly Init	In graph if $(U) = e^{(c U)}$ $f(U) = U^{c}$ $f(U) = e^{(c (U^{b} \cdot 1) / b)}$ $f(U) = a U^{b} e^{(c U)}$ $f(U) = 1 / (U^{b} + c U^{a})$ the distribution ned attraction constrained: Balancing by multi-procedur ial matrix balancing according to Productivity total Attractivity total Mean of both sums Maximum of both sums	Parameters a b c Multi-parameters Max. number of iterations Quality factor	0 25 0 0

Figure 14: PM PK HR Non-Home-Based Gravity Model Functions

Figure 15 displays the PM PK HR Home-Based School gravity model function parameters and other trip distribution characteristics discussed above.

Options Function graph		
Function type ↓ Logit: ([U] = e^(c U) ↓ Kirchhoff: ([U] = U^c c ⊕ BoxCox: ([U] = e^(c (U^b -1) / b] ↓ Combined: ([U] = a U^b e^(c U)	Parameters a b c	0 24 0
TModel: f(U) = 1 / (U^b + c U^a)     Direction of the distribution     Constrained production     Constrained attraction     Doubly constrained: Balancing by multi-proced		
Initial matrix balancing according to Productivity total Attractivity total Mean of both sums Minimum of both sums Maximum of both sums	Multi-parameters Max. number of iterations Quality factor	10 3

Figure 15: PM PK HR Home-Based School Gravity Model Functions



	Trip Distribution Parameter				
Trip Purpose	а	b	С		
HB-Work	-0.1	1.4	5		
HB-Retail	0	2.4	0		
HB-Other	0	2.4	0		
Non-Home Based	0	2.5	0		
HB-School	0	2.4	0		

The trip distribution utility parameters are summarized in Table 13 below:

Table 13: Trip Distribution Utility Parameters PM PK HR

### 11.3 Gravity Model Calibration/Validation Results

A random sampling of travel times from one traffic analysis zone (TAZ) to

another were extracted from the model using flow bundles. The same path was input into google map to estimate actual travel times during the AM PK hour and PM PK hours.

As shown in Table 14 and 15, the average model travel time roughly matches the average survey travel time for overall KMPO region-wide, despite some average travel time variations.

# Table 14: 2010 AM Peak Hour Average Travel Time (Minutes) – 2010 Base Model Vs. Google Estimated Travel Times (In Current Traffic when available)

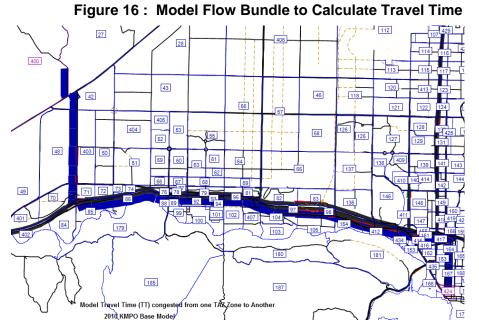
0	D	From						Difference
Zone	Zone	Place	To Place	Length	Т0	TCur	Google TT	
401	20	Cabelas	Rathdrum	11.98mi	14min	16min	18min	2min
402	10	Cabelas	Silverwood Vic.	22.02mi	25min	37min	37min	0min
424	10	KMPO	Silverwood Vic.	19.98mi	23min	27min	27min	0min
		State	Kootenai					
589	161	Line	Medical Center	13.05mi	12min	14min	13min	1min
		State	Kootenai East					
589	581	Line	Border	43.88mi	37min	39min	40min	0min
	004	State		45 00 ·	40 ·	40 ·	40 ·	<b>o</b> .
589	204	Line	E/O Worley	45.03mi	43min	48min	46min	2min
204	10	E/O	Athol	50 10mi	52min	61min	57min	1min
204	12	Worley Hauser	Athol Downtown	50.10mi	52mm	omin	STIIII	4min
400	424	Lake	CDA	16.07mi	17min	24min	23min	1min
400	747	Lanc		10.07111	1711111	<b>2</b> 7000	2011111	1111111

Legend: TT= Travel Time, O Zone = OriginZone, D Zone = Destination Zone, T0= Free flow TT, TCur (Congested TT).

Table 15: 2010 PM Peak Hour Average Travel Time (Minutes) – 2010 Base
Model Vs. Google Estimated Travel Times (In Current Traffic when available)

0	D	From					Google	Difference
Zone	Zone	Place	To Place	Length	Т0	TCur	TT	
401	20	Cabelas	Rathdrum	11.98mi	15min	17min	19min	2min
402	10	Cabelas	Silverwood Vic.	22.02mi	25min	37min	40min	3min
424	10	KMPO State	Silverwood Vic. Kootenai	19.98mi	23min	29min	31min	2min
589	161	Line State	Medical Center Kootenai East	13.05mi	12min	16min	15min	1min
589	581	Line State	Border	43.88mi	37min	41min	40min	1min
589	204	Line E/O	E/O Worley	45.03mi	43min	52min	48min	3min
204	12	Worley Hauser	Athol Downtown	50.10mi	52min	65min	62min	3min
400	424	Lake	CDA	16.07mi	17min	24min	26min	2min

Legend: TT= Travel Time, O Zone = OriginZone, D Zone = Destination Zone, T0= Free flow TT, TCur (Congested TT).



The model flow bundle path to calculate the congested average travel time (tCur) from one TAZ zone to another.



### 12.0 AM/PM Peak Hour Traffic Assignments

The 2010 AM peak hour KMPO Model traffic assignments are displayed in Figure 17 and the 2010 PM peak hour KMPO Model traffic assignments are displayed in Figure 18.

The traffic assignment figures, provide a snapshot of directional traffic volumes for the AM and PM peak hour in the urbanized KMPO area.

Since the directional traffic forecasts need to be evaluated for statistical accuracy and confidence, screenline validation analysis is performed for both AM and PM peak hour conditions. Appendix 1D and Appendix 1E show the 2010 KMPO Model AM/PM peak hour screenline spreadsheets, respectively.



### 13.0 AM/PM Peak Hour Traffic Screenline Validation

As shown in the following Figure 19 and Figure 20, twenty-eight screenlines are drawn to display ratios of the 2010 KMPO model AM and PM peak hour traffic modeled volumes over their corresponding traffic counts. Table 16 below, shows a summary of the screenline results.

#### AM Peak Hour PM Peak Hour Screenline Location and No. Model/Count Model/Count Ratio Ratio Spokane River Crossing Screenline #1 1.51 1.21 Seltice Screenline #2 1.15 1.32 Harrison Avenue Screenline #3 0.98 0.85 Appleway Ave/Best Screenline #4 1.20 1.06 Seltice/Mullan Rd/Kathleen Screenline #5 1.03 0.98 Poleline Rd Screenline #6 0.98 1.05 Prairie Rd. Screenline #7 1.14 1.11 Hayden Avenue Screenline #8 1.04 0.96 Lancaster Rd. Screenline #9 1.20 1.10 SH 53 – US 95 Screenline #10 0.72 0.81 Twin Lakes to National Forest Screenline #11 1.25 1.00 US 95 to SH 3 South Screenline #12 1.07 1.04 SH 95 to LaTour Creek Rd Screenline #13 1.91 1.77 Spirit Lake Pend'O Reille Screenline #14 1.13 1.06 Pleasant View Rd Screenline #15 1.24 1.24 McGuire Rd. Screenline #16 1.35 1.22 1.14 Chase Rd. Screenline #17 1.28 Spokane St. Screenline #18 1.07 0.93 Idaho St. Screenline #19 1.04 0.94 Greensferry Rd. Screenline #20 1.03 0.95 SH 41 Screenline #21 0.88 0.95 Huetter Rd. Screenline #22 0.99 1.01 Ramsey Rd. Screenline #23 0.95 0.90

### Table 16: 2010 KMPO Model AM/PM Peak Hour Screenline Summary Results



US 95 Screenline #24	1.20	0.94
West Side KMPO Screenline #25	1.31	1.25
East Side KMPO Screenline #26	1.07	1.00
Government Way Screenline #27	1.19	0.96
I-90 Ramps Screenline #28	1.02	1.04
Overall Avg. Screenline	1.14	1.06



### **13.1** Allowable Deviation Standards

The closer the model/count ratios by screenlines approach 1.00, the better matches the screenline traffic volumes are compared with the traffic counts. The Federal Highway Administration (FHWA) developed a maximum allowable screenline validation error range and formula as shown below:

#### % Allowable Deviation per TMIP FHA

For volumes less than 100,000: Tol (%) =  $1/100 * [(-0.00005^{*}(V)^{3} + 0.013^{*}(V)^{2}-1.1822^{*}(V)+65.465)]$ For over 100,000: Tol (%) =  $2.1783^{*}(V)^{-}0.4784$ Where V is volume in thousands

By using the formula, the screenlines can be evaluated to see if they meet the percent allowable deviation ranges. Figure 21 and Figure 22 display the screenline validations against FHWA Maximum Allowable Error Range (Source: Figure 7-2 Maximum Desirable Deviation in Total Screenline Volumes in the *Model Validation and Reasonableness Checking Manual* published by FHWA Travel Model Improvement Program).

By the FHWA standards, the 2010 KMPO Model is validated for both AM peak hour and PM peak hour, and can be used to build future year travel demand models in KMPO areas.

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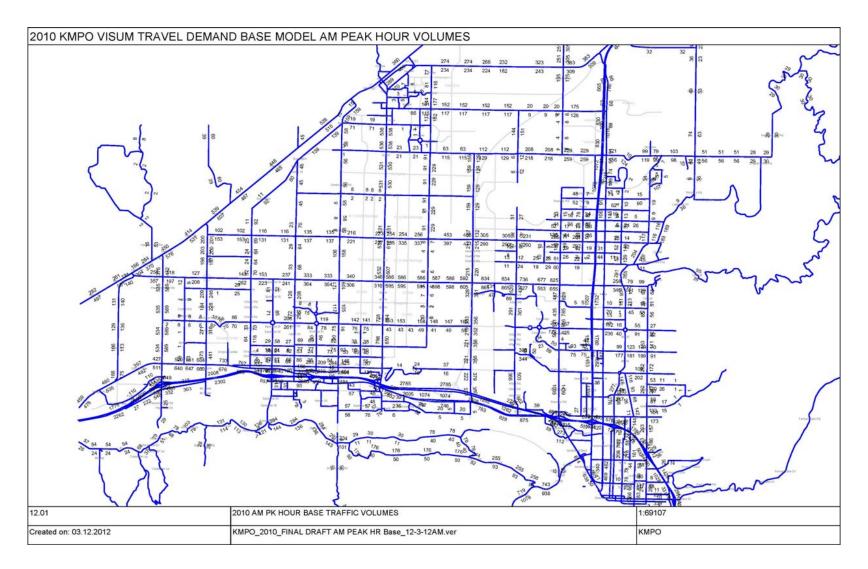


Figure 17: 2010 KMPO VISUM Model AM Peak Hour Traffic Assignment Results

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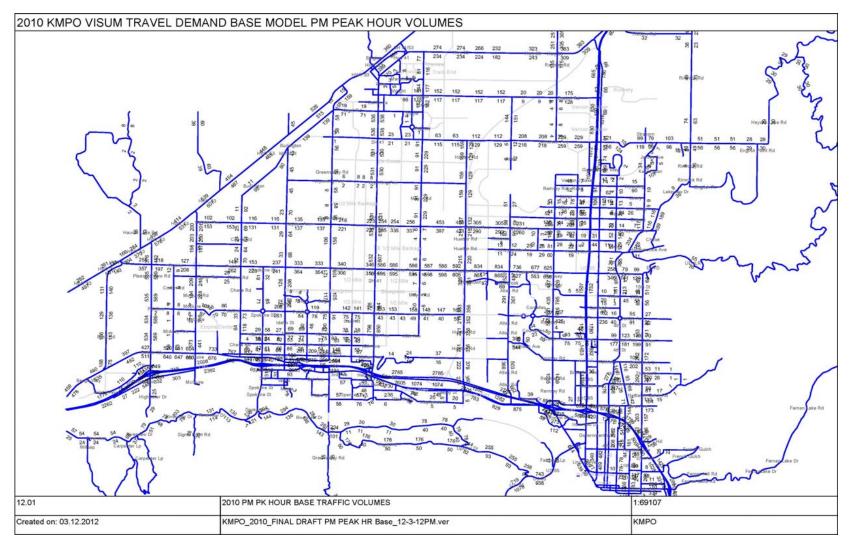


Figure 18: 2010 KMPO VISUM Model PM Peak Hour Traffic Assignment Results



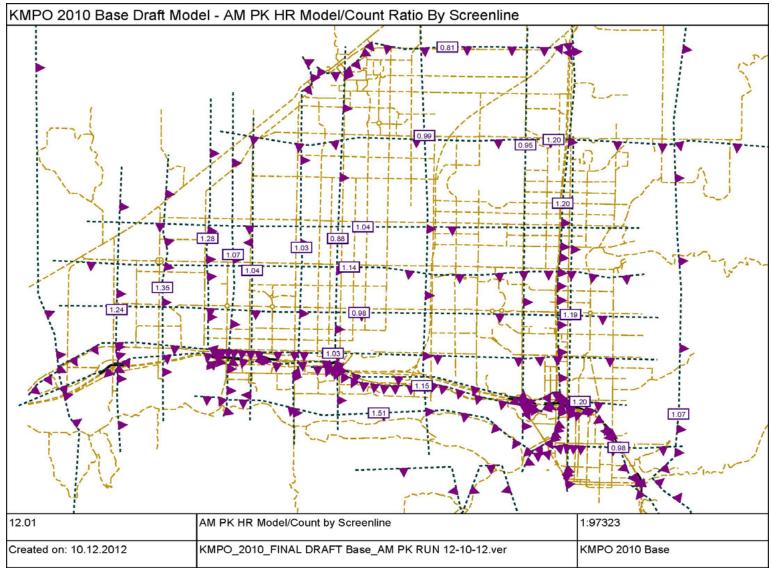


Figure 19: 2010 KMPO VISUM Model AM Peak Hour Traffic Forecast Screenline Results



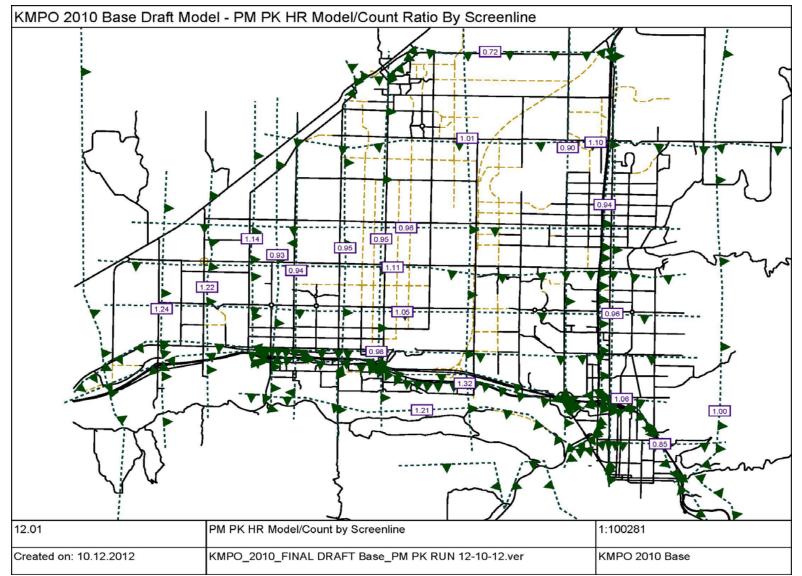


Figure 20: 2010 KMPO VISUM Model PM Peak Hour Traffic Forecast Screenline Results

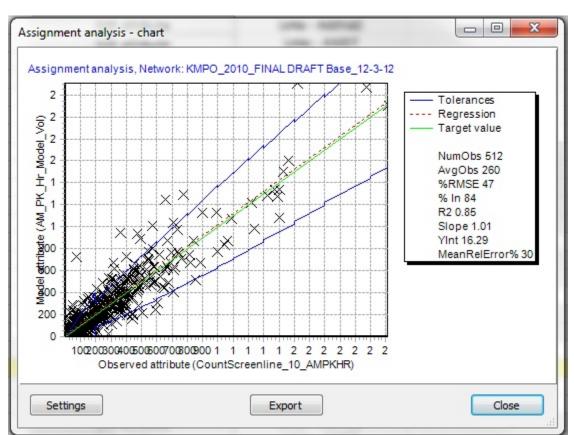


Figure 21: 2010 KMPO Model AM Peak Hour Screenline Error Range

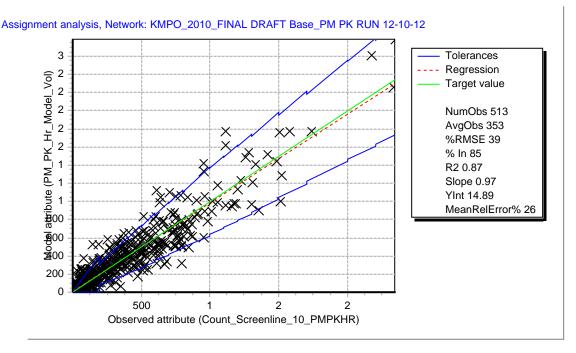


Figure 22: 2010 KMPO Model PM Peak Hour Screenline Error Range

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### 14.0 Model Limitations and Improvements

The 2010 KMPO model has some limitations that lead to potential improvements in the future.

- The KMPO model is vehicle based travel demand forecasting model and does not have multimodal forecasting capability as the model only follows the three steps of the traditional four-step modeling procedures: trip generation, trip distribution, and trip assignment without the mode choice modeling step.
- The model trip generation rates are simply based on the ITE Trip Generation Manual but not based on the regional travel survey data, although the total trips generated by purpose are calibrated against the 2005 Kootenai/Spokane expanded travel survey results.
- The model produces better traffic forecasts in the urbanized area with higher traffic volume than in the rural area with lower traffic volumes possibly because of the larger zones and less street network in rural areas, or because the rural areas have lower trip generation rates than the ITE urban and suburban trip generation rates used in the KMPO model. Further statistical analysis of the rural and urban area travel behaviors will help evaluate this hypothesis.
- The trip distribution patterns roughly match with the 2005 regional travel survey; the statistical results were extracted from the travel survey for the AM and PM conditions, by NuStats as requested by KMPO staff during this 2010 model update; therefore, the statistical analysis results are based on the "2005 Spokane and Kootenai County Regional Travel Survey".
- Intersection level of service calculation can be implemented by using the VISUM module TRAFFIX based on the Highway Capacity Manual but was not done at this update and should be implemented for operational analysis in the future.
- Some local zonal details or network details may not be sufficient to reflect the traffic forecast conditions in the local sub-area transportation study and planning, or project specific sites and should be enhanced further to meet the local travel demand modeling needs in the future.

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# **Appendices**

# Appendix 1A: KMPO Project dir file.pfd – KMPO Project directory file that directs the model to the proper file directory location.

ote:	Several extensions can be sep	parated by ';'	
	Туре	Directory	Extension(s)
1	Project directories	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 pfd
2	Version	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 ver
3	Network	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 net
4	OD demand data	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 dmd
5	Matrix	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 mtx;mx;fma;*
6	Access database	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 mdb
7	Access 2007 database	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 accdb
8	Model transfer file	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 tra
9	ESRI shapefile	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 shp
10	Attributes	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 att
11	Active network objects	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 ane
12	Filter	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 fil
13	Procedure parameters	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 par;xml
14	VISUM add-in	%APPDATA%\Visum\120\AddIns\	 vai
15	Script	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 vbs;js;pys;py;rb;pl;tcl
16	Graphic parameters	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 gpa
17	Background	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 emf;wmf;bmp;dwg;dxf;ecw;jp2;jpg;png;shp;sic
18	Texts	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 txt
19	Image	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 bmp;jpg;wmf;emf;gif;tiff;png
20	SVG file	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 svg
21	DXF file	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 dxf
22	Screenshot	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 jpg;wmf;emf;bmp;gif;tiff;png
23	Exported turn volumes	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 jpg;png;gif;wmf;emf;bmp;tiff;svg
24	Legend parameters	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 lgd
25	Matrix editor graphic parame	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 gpm
26	Timetable editor layout	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 tly
27	List layout	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 lla
28	Quickview layout	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 qla
29	Matrix editor layout	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 mly
30	Survey data	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 *
31	PuT connections	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 con
32	PrT routes	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 rim
33	EMME project	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 emme
34	HAFAS project	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 puti;haf
35	TModel project	C:\Users\Bgow\Desktop\KMPO 2010 NEW Procedures\	 tla
36	Network merge parameters	C: Users Bgow Desktop KMPO 2010 NEW Procedures	 nmp

### Appendix 1B: UpdateNodeLinkCapTWTL.par - A parameter file to update node/link capacity

peration: 12	2 Procedure	Reference object(s)	Variant/file	Comment
1	Ilation - Calculate Procedures Updated	2 - 47		Capacity calculation - Calculate Procedures
2	Initialize all filter settings			
3	Read filter		TSysCar.fil	
4	Edit attribute	Links - CapPrT		Set Link Capacity, Lanes * Cap/Lane
5	Edit attribute	Connectors - T0_TSYS(C)		Test to set Connector Time
6	Read filter		TWLTL-3Lane.fil	3 Lane Road
7	Edit attribute	Links - CapPrT		Add 300 directional capacity
8	Read filter		TWLTL-5Lane.fil	5 Lane Road
9	Edit attribute	Links - CapPrT		Add 150 directional capacity
10	Read filter		Fwy_GT_2_Lanes.fil	3+ Lane Fwy
11	Edit attribute	Links - CapPrT		Add Cap for 3 Lane + Fwy
12	Edit attribute	Nodes - K4		Set All K4 = 1.0
13	Read filter		ActiveLinksNodes.fil	Start Node Computations
14	Edit attribute	Nodes - CapPrT		Add all outbound link capacities
15	Read filter		ActiveLinksNodes-3plusLegs.fil	3 Plus Leg Nodes
16	Edit attribute	Nodes - K4		
17	Read filter		ActiveLinksNodes-2Leg.fil	
18	Edit attribute	Nodes - K4		
19	Read filter		ActiveLinksNodes-3Leg.fil	
20	Edit attribute	Nodes - K4		
21	Read filter		ActiveLinksNodes-4Leg.fil	
22	Edit attribute	Nodes - K4		
23	Read filter		ActiveLinksNodes-5Leg.fil	
24	Edit attribute	Nodes - K4		
25	Read filter		NodeCapacityFinalComputations.fil	
26	Edit attribute	Nodes - CapPrT		
27	Read filter		Turns-LT-TH-RT-Only.fil	Turns-LT-TH-RT-Only.fil
28	Edit attribute	Turns - CapPrT		Reset Turn Capacities
29	Edit attribute	Turns - t0PrT		Reset Turn T0=0
30	Read filter		SingleLeftTurnsSignalsTwoWayStops.fil	Single Left Turns
31	Edit attribute	Turns - t0PrT		T0=6Secs
32	Edit attribute	Turns - CapPrT		TurnCap=300
33	Read filter		DualLeftTurnsSignalsTwoWayStops.fil	Dual Left Turns
34	Edit attribute	Turns - CapPrT	2	TurnCap=275*NumLanes
35	Read filter		Uncontrolled_Intersections.fil	Set Uncontrolled Controls
36	Edit attribute	Nodes - ControlType		1-Uncontrolled
37	Read filter	76-	Stop_2_Way_Intersections.fil	Set 2 Way Stop
38	Edit attribute	Nodes - ControlType		2-Partial Stop
39	Read filter	76-	Yield 2 Way Intersections.fil	Set Yield
40	Edit attribute	Nodes - ControlType		6-Yield
40	Read filter	nouto controllype	Stop_All_Way_Intersections.fil	Set All Way Stop
41	Edit attribute	Nodes - ControlType	Stop_Ai_way_intersections.fil	4-All Way Stop
		Nodes - concrontype	Cianal Internections fil	
43	Read filter	Nodes ControlT	Signal_Intersections.fil	Set Signals
44	Edit attribute	Nodes - ControlType		3-Signals
45	Read filter		Roundabout_Intersections.fil	Set Roundabouts
46	Edit attribute	Nodes - ControlType		7-Roundabout
47	Read filter		TSysCar.fil	

Appendix 1C: Final Calculate Procedures File AM\_PM\_12-3-12.par - An AM/PM combined parameter file for the AM/PM peak hour KMPO Model (Procedures 1 – 39).

- (2) -	1		🔝 🚝 K 👫 Select GPar		🖤 🔍 🖌 📽 🛛 📕 Procedure se	quence 🗾 🔽 🗍 🖓
) 	1			1		
ation: 12	ecuti	Active	Procedure	Reference object(s)	Variant/file	Comment
1	Þ	×	Ilation - Calculate Procedures Update	2 - 47		Capacity calculation - Calculate Procee
2		×	Initialize all filter settings			
3		×	Read filter		TSysCar.fil	
4		×	Edit attribute	Links - CapPrT		Set Link Capacity, Lanes * Cap/Lane
5		×	Edit attribute	Connectors - T0_TSYS(C)		Test to set Connector Time
6		×	Read filter		TWLTL-3Lane.fil	3 Lane Road
7		×	Edit attribute	Links - CapPrT		Add 300 directional capacity
8		×	Read filter		TWLTL-5Lane.fil	5 Lane Road
9		×	Edit attribute	Links - CapPrT		Add 150 directional capacity
10		×	Read filter		Fwy_GT_2_Lanes.fil	3+ Lane Fwy
11		×	Edit attribute	Links - CapPrT		Add Cap for 3 Lane + Fwy
12		×	Edit attribute	Nodes - K4		Set All K4 = 1.0
13		×	Read filter		ActiveLinksNodes.fil	Start Node Computations
14		×	Edit attribute	Nodes - CapPrT		Add all outbound link capacities
15		×	Read filter		ActiveLinksNodes-3plusLegs.fil	3 Plus Leg Nodes
16		×	Edit attribute	Nodes - K4		
17		×	Read filter		ActiveLinksNodes-2Leg.fil	
18		×	Edit attribute	Nodes - K4		
19		×	Read filter		ActiveLinksNodes-3Leg.fil	
20		×	Edit attribute	Nodes - K4		
21		×	Read filter		ActiveLinksNodes-4Leg.fil	
22		×	Edit attribute	Nodes - K4		
23		×	Read filter		ActiveLinksNodes-5Leg.fil	
24		×	Edit attribute	Nodes - K4		
25		×	Read filter		NodeCapacityFinalComputations.fil	
26		×	Edit attribute	Nodes - CapPrT		
27		×	Read filter		Turns-LT-TH-RT-Only.fil	Turns-LT-TH-RT-Only.fil
28		×	Edit attribute	Turns - CapPrT	•	Reset Turn Capacities
29		×	Edit attribute	Turns - t0PrT		Reset Turn T0=0
30		×	Read filter		SingleLeftTurnsSignalsTwoWayStops.fil	Single Left Turns
31		×	Edit attribute	Turns - t0PrT		T0=6Secs
32		×	Edit attribute	Turns - CapPrT		TurnCap=300
33		×	Read filter		DualLeftTurnsSignalsTwoWayStops.fil	Dual Left Turns
34		×	Edit attribute	Turns - CapPrT	,,,otopana	TurnCap=275*NumLanes
35		×	Read filter		Uncontrolled Intersections.fil	Set Uncontrolled Controls
36		X	Edit attribute	Nodes - ControlType		1-Uncontrolled
37		X	Read filter		Stop_2_Way_Intersections.fil	Set 2 Way Stop
38		X	Edit attribute	Nodes - ControlType		2-Partial Stop
39		X	Read filter	Heads controllype	Yield_2_Way_Intersections.fil	Set Yield

### Appendix 1C (Continued): Final Calculate Procedures File AM\_PM\_12-3-12.par (Procedures 84-121).

40	×	Edit attribute	Nodes - ControlType		6-Yield
41	×	Read filter		Stop_All_Way_Intersections.fil	Set All Way Stop
42	×	Edit attribute	Nodes - ControlType		4-All Way Stop
43	×	Read filter		Signal_Intersections.fil	Set Signals
44	×	Edit attribute	Nodes - ControlType		3-Signals
45	×	Read filter		Roundabout_Intersections.fil	Set Roundabouts
46	×	Edit attribute	Nodes - ControlType		7-Roundabout
47	×	Read filter		TSysCar.fil	
48	×	oup Set Land Use to 2010 for Base Y	49 - 77		Set Land Use to 2010 for Base Year
49	×	Edit attribute	Zones - SFDU_LU1		
50	×	Edit attribute	Zones - MFDU_LU2		
51	×	Edit attribute	Zones - RET_LU3		
52	×	Edit attribute	Zones - FIRES_LU4		
53	×	Edit attribute	Zones - INDUST_LU5		
54	×	Edit attribute	Zones - SCH_LU6		
55	×	Edit attribute	Zones - ACCOM_LU7		
56	×	Edit attribute	Zones - AER_LU8		
57	×	Edit attribute	Zones - OSFDU_LU9		
58	×	Edit attribute	Zones - PSS_LU10		
59	×	Edit attribute	Zones - AGRI_LU11		
60	×	Edit attribute	Zones - WFRT_LU12		
61	×	Edit attribute	Zones - POL_LU13		
62	×	Edit attribute	Zones - TRNWH_LU14		
63	×	Edit attribute	Zones - MED_LU15		
64	×	Edit attribute	Zones - GOVT_LU16		
65	×	Edit attribute	Zones - ASWMR_LU17		
66	×	Edit attribute	Zones - PSTMC_LU18		
67	×	Edit attribute	Zones - EDUSRV_LU19		
68	×	Edit attribute	Zones - OTHER_LU20		
69	×	Edit attribute	Zones - INFO_LU21		
70	×	Edit attribute	Zones - UTLCONST_LU22		
71	×	Edit attribute	Zones - FS_LU23		
72	×	Edit attribute	Zones - XI-O-AM		
73	×	Edit attribute	Zones - IX-D-AM		
74	×	Edit attribute	Zones - XI-O-PM		
75	×	Edit attribute	Zones - IX-D-PM		
76	×	Edit attribute	Zones - TOTAL_DU		
77	×	Edit attribute	Zones - TOTAL_EMP		
78	×	Group AM Model Run	79 - 99		AM Model Run
79	×	Init assignment		All	Latest Update 5-8-12 Bonnie PTV Vis
80	×	Read filter		TSysCar.fil	TSysCarLinks.fil
81	×	Edit attribute	Links - AddVal2		ADDVALUE2=0 (sets value to zero)
82	×	Edit attribute	Links - AWDT		SETS AWDT To Zero
83	×	Trip generation	H-W, AM NHB AM NHB, AM	d	

### Appendix 1C (Continued): Final Calculate Procedures File AM\_PM\_12-3-12.par (Procedures 84-121).

84	×	Calculate PrT skim matrix	AM_HBW AM_HBW		TT0
85	×	Calculate PrT skim matrix	AM_HBW AM_HBW		TTC
86	×	Combination of matrices and vectors	2 TTO (AM_HBW AM_HBW)		TT0=0.75*TTC+0.25*TT0
87	×	Trip distribution	H-W, AM_NHB AM_NHB, AM_O	1	
88	×	Combination of matrices and vectors	13 AM_HBW		
89	×	Combination of matrices and vectors	15 AM_HBR		
90	×	Combination of matrices and vectors	17 AM_HBO		
91	×	Combination of matrices and vectors	19 AM_HBS		
92	×	Combination of matrices and vectors	1 AM_Total		
93	×	PrT assignment	AM-Tot AM Total	Equilibrium assignment	
94	×	Go to the procedure	Procedure 85		
95	×	Edit attribute	Links - AM_PK_HR_MODEL_VOL		AM_PK_HR_Model_Vol=VolVehPrT
96	×	Read filter		AMVolumeCount.fil	
97	×	Edit attribute	Links - AddVal2		AM Model Deviation
98	×	Assignment analysis			AM Analysis
99	×	Read filter		TSysCar.fil	TSysCarLinks.fil
100	×	Group PM Model Run	101 - 121		PM Model Run
101	×	Init assignment		All	
102	×	Read filter		TSysCarLinks.fil	TSysCarLinks.fil
103	×	Edit attribute	Links - AddVal3		ADDVALUE3=0 (Sets value to zero)
104	×	Edit attribute	Links - AWDT		SETS AWDT TO Zero
105	×	Trip generation	_H-W, PM_NHB PM_NHB, PM_C		Updated 10-10-12 R.S/B.G.
106	×	Calculate PrT skim matrix	PM_HBW PM_HBW		TT0
107	×	Calculate PrT skim matrix	PM_HBW PM_HBW		TTC
108	×	Combination of matrices and vectors	220 TTO (PM_HBW PM_HBW)		TT0=TTC+TT0
109	×	Trip distribution	H-W, PM_NHB PM_NHB, PM_C		
110	×	Combination of matrices and vectors	14 PM_HBW		
111	×	Combination of matrices and vectors	16 PM_HBR		
112	×	Combination of matrices and vectors	18 PM_HBO		
113	×	Combination of matrices and vectors	20 PM_HBS		
114	×	Combination of matrices and vectors	3 PM_Total		
115	×	PrT assignment	PM-Tot PM_Total	Equilibrium assignment	
116	×	Go to the procedure	Procedure 107		
117	×	Edit attribute	Links - PM_PK_HR_MODEL_VOL		PM_PK_HR_Model_Vol=VolVehPrT
118	×	Read filter		PMVolumeCount.fil	
119	×	Edit attribute	Links - AddVal3		PM Model Deviation
120	×	Assignment analysis			PM Analysis
121	×	Read filter		TSysCar.fil	TSysCarLinks.fil

## Appendix 1D: 2010 KMPO Model AM Peak Hour Screenline Validation Spreadsheets



#### AM PK HR Screenline Validation 2010 KMPO BaseDRAFT Final 12-10-12.ver

Calibrated AM Model 12-10-12 by KMPO

									22
SOUTH - NORTH SCREENLINES -									
KMPO Location	AM Total	AM Peak Time	AM Peak Count	Link #	From Node	To Node	Modeled AM Peak Volume	Modeled - Actual AM Peak Volume	Modeled-Actual / Actual AM Peak Count
Spokane River Crossing Screenline #1							2		
Southbound Spokane St	579	700	230	13273	11026	818	364	124	0.53913043
US 95 @ Spokane River Bridge	1300	800	474	13617	11201	10871	937	463	0.97679324
Northwest Blvd South of US 95 Totals	2958 1879	800	1322 704	13909	896	11337	1287 1291	-35 687	-0.02647503 0.83380681
Northbound			104	in the second second	V. men	C. A. Derrotterer	1201	007	0.00000001
Spokane St.	512	800	208	13273	818	11026	238	30	0.14423076
US 95 @ Spokane River Bridge Northwest Blvd South of US 95	1512	700	619 363	13617 13909	10871 11337	11201 896	744 411	125	0.20193861
Totals	2024	100	827	10000	11007	000	982	155	0.18742442
Location	AM Total	AM Peak Time	AM Peak Count	Link#	From Node	To Node	Modeled AM Peak Volume	Modeled - Actual AM Peak Volume	Modeled-Actual / Actual AM Peak Count
Seltice Screenline #2									
Southbound	2.67	0000	100	0102	(				
Ross Point Rd Ramsey Rd	287 3297	800	135 1400	9139 10413	734 843	9272	180 1338	45	0.333333333
Huetter Rd	468	700	191	10473	774	9814	202	11	0.05759162
Altas Rd	890 174	700	363 77	10477	9388 10995	9815 790	446 118	83 41	0.22865013 0.53246753
Cedar St Seeley Rd	79	800	36	13219	793	10733	52	41	0.44444444
Totals	5195		2202				2336	134	0.06085376
Northbound Ross Point Rd	860	700	346	9139	9272	734	451	105	0.30346820
Ramsey Rd	1637	800	734	10413	9789	843	978	244	0.33242506
Huetter Rd	201	800 800	83 227	10473	9814	774	122 273	39	0.46987951
Atlas Rd Cedar St	553	800	227	10477 13219	9815 790	9388 10995	273	46	0 20264317
Seeley Rd	103	700	46	12719	10733	793	32	-14	+0 30434782
Totals	3802		1622				1998	376	0.23181257
Location	AMTotal	M Peak Tin	M Peak Cou	Link#	From Node	To Node	I Peak Volume	eak Volume	Actual AM Peak Cour
Harrison Ave. Screenline #3				Linter	11011110-000	1011000		Cut Teluine	interest of the second
Southbound			171				101		0 405 405 00
3rd St 7th St	938 248	800 800	474	977	901	917 11320	424	-50	-0 10548523 0 43925233
11th St	122	700	62 409	986 990	907	920 921	38 352	-24	-0.38709677
15th St Government Way	893 416	800 800	409 206	990 8963	910 899	921 9144	352	-57	-0.13936430 0.71359223
Totals	2617	000	1258	0305	033	- D [e4-4	1321	63	0.05007949
Northbound			100	-	11000	0.04	2		e e e e e e e e e e e e e e e e e e e
7th St	276	800	129 91	13875 986	11320 920	904 907	69 15	-60	-0.46511627 -0.83516483
15th St	1450	700	496	990	921	910	493	-3	+0.00604838
4th St Government Way	736	800 800	366 179	10854 13762	9988 11267	902 9812	350	-16 46	-0 04371584 0 2569832
Totals	3011	800	1/9	13762	11207	9812	1152	-109	-0.08643933
Appleway Ave/Best Screenline #4	AM Total	M Peak Tin	rM Peak Cou	Link#	From Node	To Node	I Peak Volume	Peak Volume	Actual AM Peak Cour
Southbound									
Government Way	1241	800	573	12956	833	10830	1011	438	0.76439790
15th St SR 95 (N by Haycraft)	993 2606	800 700	402 989	889 9429	841	866 9113	253	-149	-0.37064676 0.14560161
Totals	4840	100	1964	0120	014	0110	2397	433	0.22046843
Northbound	740	800	475	10000		833	526		10
Government Way 15th St	601			12956 889	10830	833	526	513 134	
SR 95 (North by Haycraft)	1675	800 700	237 709	10844	866 9975	9984	1042	1046	0.56540084 1.47531734
Totals	3016		1421		2	8	1675	254	0.17874736
Location	AM Total	M Peak Tin	rM Peak Cou	I Link#	From Node	To Node	I Peak Volume	eak Volume	Actual AM Peak Cour
Seltice/Mullan Rd/Kathleen Screenline #5 Southbound									
	1203	10000	1.0	Secondary Second		5000	6.00		100000
Spokane St.	1033	700	380	13788	658	11277	574	194	0.51052631
Idaho St. Greensferry Rd	1368	800 700	542 57	13790 668	660 664	11278 683	698 146	156	0.28782287
SR 41	3247	700	1236	13916	669	11340	988	.248	.0.20064724
Huetter Rd Altas Rd	490	700	225 273	691 693	685	738	202	-23	-0.10222222 -0.20146520 -0.22626695
Ramsey Rd	3228	800	1401	13448	689	11129	1084	-317	-0.22626695
4th St	698	700	299 353	12931	10735	10813	292 281	-7	+0.02341137
15th St	793	800		9557	698	716		-72	-0 20396600 -0 08207343
US 95	3339	1 800	1389	9007	691	9421	12/5	-114	-0.05207343
US 95 Baugh Rd Pleasant View Rd	3339 174 847	700	1389 75 312	9007 13224 8830	691 10998 9017	9421 9015 647	1275 46	-114 -29 216	-0.38666666 0.69230769

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KMPO Total Screenlines

KMPO AM Total Screenline with All 2007/2008 Grown to 2010 Counts



#### AM PK HR Screenline Validation 2010 KMPO BaseDRAFT Final 12-10-12.ver

Calibrated AM Model 12-10-12 by KMPO

Government Way	1120	800	502	13820	10160	11292	560	58	0.115537849
Totals	17119		7044				6892	-152	-0.021578648
Northbound		7		2	17 1		1		
Spokane St.	811	800	350	13788	11277	658	383	33	0.094285714
Idaho St	983	800	383	13790	11278	660	380	-3	-0.007832898
Government Way	890	800	394	13820	11292	10160	385	-9 69	-0.02284264
Greensterry Rd SR 41	69 1736	800 700	715	668 13916	583 11340	664 669	108	-74	1.769230769
Huetter Rd	196	800	73	691	738	685	122	49	0.671232877
Atlas Rd	734	800	291	693	739	687	286	-5	-0.017182131
Ramsey Rd	2378	800	897	13448	11129	689	744	-153	-0.170568562
4th St	536	700	227	12931	10813	10735	154	-73	+0.321585903
15th St	807	700	381	711	716	698	352	-29	-0.076115486
US 95	2241	800	845	12128	10486	10487	1128	283	0.334911243
Baugh Rd	82 531	700	32 184	13224	9015	10998	118	86	2.6875
Pleasant View Rd		800		8830	647	9017	366	182	0.989130435
Totals	11994	Ç.	4811	S 1	£		5187	358	0.07399709
Levellen		M Deals The	II Deal Ora	Link #	Free Marda	To block	D	-1.34-1	1.1440
Location Poleline Rd Screenline #6	AM Total	M Peak Tin	M Peak Cou	Link #	From Node	To Node	Peak Volume	eak Volume	ctual AM Peak Count
				-					
Southbound	762	700	201	496	544	595	528	207	0.754152824
Pleasant View Rd	271	800	301	507	550	595	79	227	-0.330508475
Chase Rd	731	000	118 291	13865	550	11315	323	-39	0.109965636
Spokane St Idaho St	810	700	340	13864	554	11313	257	-83	-0.244117647
Greensferry Rd.	256	800	116	520	558	583	62	-54	-0.465517241
SR41	2653	800	1042	526	562	585	836	-206	-0.197696737
Ramsey Rd	1690	700	689	536	569	590	676	-13	-0.018867925
Government Way	1279	700	534	542	573	592	687	153	0.286516854
15th St	531	700	280	548	577	594	146	-134	-0.478571429
Huetter Rd	402	700	157	559	1100	587	180	23	0.146496815
US 95	3616	700	1401	1671	571	615	1501	100	0.071377587
4th St	739	700	333	13483	11142	9052	149	-184	-0 552552553
Atlas Rd Tetolo	1220	700	522	13855	9458	11309	465	-57 -235	-0.109195402
Totals	14961		6124	-		_	5995	-235	-0.038373612
Pleasant View Rd	444	700	153	496	595	544	366	213	1.392156863
Chase Rd	432	800	172	507	579	550	29	-143	-0.831395349
Spokane St	412	800	163	13865	11315	552	125	-143	-0.233128834
Idaho St	478	800	186	13864	11314	552 554	163	-23	-0.123655914
Greensferry Rd	347	700	159	13864 520	583	558		-23 -124	-0.779874214
SR41	1624	700	676	526	585	562	35 491	-185	-0.273668639
Ramsey Rd	1250	800	478	536	590	569	450	-28	-0.058577406
Government Way	834	800	345	542	592	573	330	-15	-0.043478261
15th St	531	700	280	548	594	577	49	-231	-0.825
Huetter Rd	219 2076	700	86 756	559 1671	587 615	1100	116	30	0.348837209
US 95 4th St	387	700	169	13483	9052	571	1400	-117	0.931216931
Atlas Rd	731	700	312	13855	11309	9458	287	-117	-0.080128205
Totals	9765	100	3935	10000	11900	0400	3953	18	0.004574333
			· · · · · · · · · · · · · · · · · · ·			Sec			
Location	AM Total	M Peak Tin	M Peak Cou	r Link#	From Node	To Node	I Peak Volume	Peak Volume	Actual AM Peak Count
Prairie Rd. Screenline #7			2						
Southbound		1		1					
Idaho Rd	211	700	95	13202	482	10986	93	-2	-0.021052632
Huetter Rd	293	800	110	434	491	522	296	186	1.690909091
Ramsey Rd	1551	700	666	13847	498	11305	625	-41	-0.061561562
US 95	3766	700	1459	13885	500	11325	1606	147	0.100753941
Government Way	1116	700	455 413	13796	502	11281	579	124	0.272527473
4th St Atlas Rd	866 850	700	363	452 9330	504 496	512 9061	200 297	-213	-0.515738499 -0.181818182
McGuire Rd	116	800	47	13592	11190	11188	293	246	5.234042553
15th St	348	700	173	10600	9878	513	68	-105	-0.606936416
Spokane St.	139	700	56	10684	480	9911	76	20	0.357142857
Chase Rd.	258	800	103	10686	478	9912	83	-20	-0.194174757
Greensferry Rd.	271	700	125	10696	486	9917	54	-71	-0 568
SR 41	1955	800	739	10698	488	9918	756	17	0.02300406
Totals	11740	9500	4804			10000	5026	222	0.04621149
Northbound	224	700	00	143300	1000	140.00	100		0 201001 100
Idaho Rd	234	700	89	13202	10986	482	152	53	0 707865169
			282	13796	11281	502	191	-91	-0.322695035
Government Way	650		220	153	540				
Government Way 4th St	544	700	230	452	512	504 491	120	-110	-0.47826087
Government Way 4th St Huottor Rd	544 345	700 700	133	434	512 522 11305	491	129	-4	-0.030075188
Government Way 4th St Huettor Rd Ramsey Rd	544	700	230 133 382 266	452 434 13847 9330	512 522 11305 9061		120 129 321 370		
Government Way 4th St Huettor Rd Ramsey Rd Atlas Rd	544 345 950	700 700 800	133 382	434 13847	11305	491 498	129 321	-4 -61	-0.030075188 -0.159685864
Government Way dm 5t Huetor Rd Ramsey Rd Atlos Rd McSure Rd McSure Rd	544 345 950 636 56 86	700 700 800 700 800 700	133 382 266 28 41	434 13847 9330 13592 10600	11305 9061 11188 513	491 498 496 11190 9878	129 321 370 124 36	-4 -61 104 96 -5	-0.030075188 -0.159685864 0.390977444 3.428571429 -0.12195122
Government Way 4th St Huetter Rd Ramsey Rd Atlas Rd McGuire Rd 19th St Spokare St.	544 345 950 636 56 86 177	700 700 800 700 800 700 700 700	133 382 266 28 41 72	434 13847 9330 13592 10600 10684	11305 9061 11188 513 9911	491 498 496 11190 9878 480	129 321 370 124 36 47	-4 -61 104 96 -5	-0.030075188 -0.159685864 0.390977444 3.428571429 -0.12195122 -0.347222222
Government Way dm St Hueter Rd Ransey Rd Atlas Rd Atlas Rd McGure Rd Tah St Spokane St Chase Rd	544 345 950 636 56 86 177	700 700 800 700 800 700 700 700 700	133 382 266 28 41 72 103	434 13847 9330 13592 10600 10684 10686	11305 9061 11188 513 9911 9912	491 498 496 11190 9878 480 478	129 321 370 124 36 47 131	.4 .61 104 .5 .25 .25 .28	-0.030075188 -0.159685864 0.390977444 3.428571429 -0.12195122 -0.34722222 0.27184466
Government Way 4th St Hueder Rd Ramsey Rd Atlas Rd McGure Rd 19th St Spokane St Chase Rd Greensfery Rd.	544 345 950 636 56 86 177 263 223	700 700 800 700 800 700 700 700 700 700	133 382 266 28 41 72 103 80	434 13847 9330 13592 10600 10684 10686 10696	11305 9061 11188 513 9911 9912 9917	491 498 496 11190 9878 480 478 486	129 321 370 124 36 47 131 96	4 61 104 96 -5 -25 28 16	-0.030075188 -0.159685864 0.390977444 3.428571429 -0.12195122 -0.347222222 0.27184466 0.2
Government Way dh St Huetter Rd Ramsey Rd Allas Rd McGure Rd Tah St Spokane St Chase Rd Greensferry Rd SR 41	544 345 950 636 56 86 177 263 223 1270	700 700 800 700 800 700 700 700 700 700	133 382 266 28 41 72 103 80 474	434 13847 9330 13592 10600 10684 10686 10696 10698	11305 9061 11188 513 9911 9912 9917 9918	491 498 496 11190 9878 480 478 486 488	129 321 370 124 36 47 131 96 523	4 61 104 96 -5 -25 28 16 49	-0.030075188 -0.159685864 -0.390977444 -0.42195122 -0.12195122 -0.347222222 0.27184466 -0.2 -0
Government Way 4th St Huotor Rd Ramsey Rd Atlas Rd McGure Rd 19th St Spokane St Chase Rd Greensferry Rd. SR 41 US 95 St	544 345 950 636 55 86 177 263 223 1270 1747	700 700 800 700 800 700 700 700 700 700	133 382 266 28 41 72 103 80 474 858	434 13847 9330 13592 10600 10684 10686 10696	11305 9061 11188 513 9911 9912 9917	491 498 496 11190 9878 480 478 486	129 321 370 124 36 47 131 96 523 1246	4 -61 104 96 -55 -25 28 16 49 588	-0.030075188 -0.159685864 0.39977444 -0.12195122 -0.347222222 0.27184466 0.2 0.103375527 0.893817021
Government Way 4m St Huetor Rd Ramesy Rd Attas Rd McGuire Rd 19th St Spokane St Chase Rd Greensfarry Rd. SR 41 US 95 S5 S5 S5 S5 S5 S5 S5 S5 S5 S	544 345 950 636 56 86 177 263 223 1270	700 700 800 700 800 700 700 700 700 700	133 382 266 28 41 72 103 80 474	434 13847 9330 13592 10600 10684 10686 10696 10698	11305 9061 11188 513 9911 9912 9917 9918	491 498 496 11190 9878 480 478 486 488	129 321 370 124 36 47 131 96 523	4 61 104 96 -5 -25 28 16 49	-0.030075188 -0.159685864 -0.390977444 -0.42195122 -0.12195122 -0.347222222 0.27184466 -0.2 -0
Government Way din St Huetor Rd Ramsey Rd Attiss Rd McGure Rd Tath St Spokano St Creas Rd Greenstery Rd St A1 US 95 Totals	544 345 950 636 56 86 177 263 223 1270 1747 7181	700 700 800 700 800 700 700 700 700 700	133 382 266 28 41 72 103 80 474 658 2836	434 13847 9330 13592 10600 10684 10686 10696 10698 12162	11305 9061 11188 513 9911 9912 9917 9918 10027	491 498 496 11190 9878 480 478 486 488 488 10491	129 321 370 124 36 47 131 96 523 1246 3486	4 -61 104 96 -55 -25 28 16 49 588 648	-0.030075188 -0.159685864 0.399977444 3.429571429 -0.12195122 0.2718446 0.0218527 0.893617021 0.2832981
Government Way 4th St Huetor Rd Ramsey Rd Atlas Rd McSure Rd 13th St Spolane St Chase Rd Greensfary Rd. SR 41 US 95 Totals Location	544 345 950 636 55 86 177 263 223 1270 1747	700 700 800 700 800 700 700 700 700 700	133 382 266 28 41 72 103 80 474 658 2836	434 13847 9330 13592 10600 10684 10686 10696 10698 12162	11305 9061 11188 513 9911 9912 9917 9918	491 498 496 11190 9878 480 478 486 488 488 10491	129 321 370 124 36 47 131 96 523 1246 3486	4 -61 104 96 -55 -25 28 16 49 588 648	-0.030075188 -0.159685864 0.39977444 -0.12195122 -0.347222222 0.27184466 0.2 0.103375527 0.893817021
Government Way 4th St Huetor Rd Ramsey Rd Atalsa Rd McGuire Rd Tabla St Spokane St Chasse Rd Greensferry Rd. St A1 US 95 Totals Location Hayden Ave. Screenline # 8	544 345 950 636 56 86 177 263 223 1270 1747 7181	700 700 800 700 800 700 700 700 700 700	133 382 266 28 41 72 103 80 474 658 2836	434 13847 9330 13592 10600 10684 10686 10696 10698 12162	11305 9061 11188 513 9911 9912 9917 9918 10027	491 498 496 11190 9878 480 478 486 488 488 10491	129 321 370 124 36 47 131 96 523 1246 3486	4 -61 104 96 -55 -25 28 16 49 588 648	-0.030075188 -0.159685664 0.35977444 3.428571429 -0.12195122 0.34722222 0.27184468 -0.2 0.103375527 0.893617021 0.22832981
Government Way 4th St Huotor Rd Rameye Rd Attas Rd McGure Rd 19th St Spokane St Chase Rd Greensferry Rd. SR 41 Us 95 Totals Location Hayden Ave. Screenline # 8 Southbound	544 345 950 636 56 86 177 263 223 1270 1747 7181 AM Total	700 700 800 700 700 700 700 700 700 700	133 382 266 28 41 72 103 80 474 658 2838 M Peak Cou	434 13847 9330 13592 10600 10684 10696 10696 10698 12162 Link#	11305 9061 11188 513 9911 9917 9917 9918 10027 From Node	491 498 496 11190 9878 480 478 486 488 10491 To Node	129 321 370 124 36 47 131 96 523 1246 3486 3486	4 -61 104 96 -55 -25 -28 16 49 588 648 648	-0.030075183 -0.156655864 0.350977444 -3.428511429 -0.27184486 0.20 0.27184486 0.103375527 0.839517021 0.22832991 Actual AM Peak Count
Government Way 4th 51 Histor Rd Ramsey Rd Atlas Rd McGure Rd 15th 51 Spokane St. Chase Rd Greensferty Rd. SR 41 US 95 Totals Location Hayden Ave. Screenline #8 Southbound Chase Rd	544 345 950 636 56 86 177 263 223 1270 1747 7181	700 700 800 700 700 700 700 700 700 700	133 382 266 28 41 72 103 80 474 658 2838 M Peak Cou	434 13847 9330 13592 10600 10684 10696 10696 10696 12162 Link# 13941	11305 9061 11188 513 9911 9912 9917 9918 10027 From Node	491 498 496 11190 9878 480 478 488 10491 To Node 11352	129 321 370 124 366 47 131 95 523 1246 523 1246 3466 4 Peak Volume 21	4 -61 104 96 -55 -25 28 16 49 588 648 648 648	-0.030075188 -0.15665584 -0.390977444 -0.390977444 -0.12195122 -0.347222222 -0.347222222 -0.103375527 -0.839617021 -0.22832891 -0.02832891 -0.603773585
Government Way           4th St           Hudtor Rd           Ramsey Rd           Atlas Rd           McSure Rd           Sth St           Spokane St           Chase Rd           Greensferry Rd.           SR 41           US 95           Totals           Location           Hyden Ave. Screenline #8           Southbound           Chase Rd           Ghaba St	544 345 950 636 56 86 177 263 223 1270 1747 7181 4M Total 140 119	700 700 800 700 800 700 700 700 700 800 8	133 382 266 28 41 72 103 80 474 858 2838 M Peak Coul 53 52	434 13847 9330 13592 10600 10684 10686 10696 12162 Link# 13941 313	11305 90611 11188 513 9911 9912 9917 9917 9918 10027 From Node	491 498 496 11190 9878 480 478 486 488 10491 To Node 11352 1163	129 3211 370 124 366 47 1311 96 523 1246 3486 3486 4 Peak Volume 211 18	4 -61 104 96 -55 -25 -25 -28 16 49 588 648 648 2eek Volume -32 -35	-0.030075188 -0.15665584 -0.390977444 -0.3402517422 -0.347222222 -0.27184466 -0.2704466 -0.103375527 -0.883617021 -0.2882981 -0.2882981 -0.682307692 -0.682307692
Government Way 4th 51 Histor Rd Ramsey Rd Atlas Rd McGure Rd 15th 51 Spokane St. Chase Rd Greensferty Rd. SR 41 US 95 Totals Location Hayden Ave. Screenline #8 Southbound Chase Rd	544 345 950 636 56 86 177 263 223 1270 1747 7181 AM Total 140	700 700 800 700 800 700 700 700 700 700	133 382 266 28 41 72 103 80 474 658 2838 M Peak Cou	434 13847 9330 13592 10600 10684 10686 10698 12162 Link# 13941 313 13861	11305 90611 11188 513 9911 9917 9917 9917 9918 10027 From Node	491 498 496 11190 9878 480 478 488 10491 To Node 11352	129 371 370 124 36 47 131 95 523 1246 3486 3486 4 Peak Volume 21 16 611	4 -61 104 96 -55 -25 28 16 49 588 648 648 648	-0.030075183 -0.15665864 0.399977444 3.428571429 -0.121951222 -0.34722222 0.27184466 0.03375527 0.8393617027 0.23832991 -0.0682307692 -0.682307695 -0.682307585 -0.68250307

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### AM PK HR Screenline Validation 2010 KMPO BaseDRAFT Final 12-10-12.ver

Calibrated AM Model 12-10-12 by KMPO

Hauser Lake Rd north of SH 53		700	129	13239	11006	445	33	-96	-0.744186047
Greensferry Rd	160	800	69 1066	6343	413	446	37	-32	-0.463768116
Totals Northbound	2011		1000				920	-140	-0.131332083
Chase Rd	137	700	53	13941	11352	411	70	17	0.320754717
Idaho St	108	700	39	313	1163	412	53	14	0 358974359
SR 41	1068	700	390	13861	11313	415	410	20	0.051282051
Huetter Rd	124		49	326	435	418	112	63	1.285714286
Hauser Lake Rd north of 53	69	800	28	13239	445	11006	19	.9	-0.321428571
Greensferry Rd	100	700	43	6343	446	413	65	22	0.511627907
Totals	1606	9 N	602	47 40	£ 1		729	127	0.210963455
				1121.10	-	-			
Location Lancaster Rd. Screenline # 9	AM Total	M Peak I In	M Peak Cou	Link#	From Node	To Node	n Peak Volume	reak Volume	Actual AM Peak Count
Southbound	-								
	160	700	57	194	330	1100	0	-57	-1
Greensferry Rd Government Way	158 329	700	147	13442	330	1144	29		.0 802721088
Strahom Rd	34		147	13461	341	11135	29	14	
Rimrock Rd/Meadowwood Ln	42		19	221	344	351	24		0.263157895
Meyer Rd.	430		175	13634	1093	11207	123	-52	-0.297142857
English Point Rd	16	700	. 7	1279	9000	357	0	-7	-1
Huetter Rd	2757	600	30	9472	334	9412	133	103	3.433333333
US 95	2868	700	1091	9551	338	9418	1072	-19	-0.017415215
Totals	6634		1541	8	2		1410	-131	-0.085009734
Northbound	04	700	27	104	47.74			-	0.004004004
Greensferry Rd	91	700	37	194 13442	1144	330	40	3	0.081081081
Government Way Strahom Rd	168 95	800	73 47	13442	11126 11135	339	<u>60</u> 8		-0.178082192 -0.829787234
Rimrock Rd/Meadowwod Ln	125	700	58	221		334	44		-0.24137931
Meyer Rd	155	700	70	13634		1093	109		0.557142857
English Point Rd	11	800	6	1279	357	9000	0	-6	
Huetter Rd	64		24	9472	9412	334	50		1 083333333
US 95	1411	700	493	13638	9983	11210	896	403	0.817444219
Totals	2120		808				1207	399	0.493811881
Location	AMTotal	Destat	De els Co	Linter	Frank Marda	TABLES	Deal Maker	Daval ( ) / aluar	And AN Provide
SH 53 - US 95 Screenline # 10	AM LOCA	W Meak 11	M Peak Cou	LINK#	From Node	To Node	n Peak Volume	Jeak Volume	Actual AM Peak Count
Eastbound	-	· · · ·	r	<u> </u>	· · · ·			-	
BNSF RR Bridge in Rathdrum	933	700	352	13898	263	11331	227	-125	-0.355113636
Ramsey Rd	530	800	185	104	1137	269	230	45	0.243243243
US 95 n/o SH53	2240	700	851	1308	252	271	515	-336	-0.394829612
Govt Way e/o US95	101	700	44	13643	11211	300	32	-12	-0.272727273
Totals	3804	- 175	1432				1004	-428	-0.298882682
Westbound	i ana ana S	6	E	Berner	2	()			
BNSF RR Bridge in Rathdrum	1502	700	589	13898	11331	263	242		-0.589134126
Ramsey Rd	229	800	109	104	269	1137	217	108	0.990825688
US 95 n/o SH53	1227	700	425	13654	11211	11215	526	101	0.237647059
US 95 n/o SH53 Govt Way e/o US95	1227 110		425 48				526 84	101	0.237647059 0.750000000
US 95 n/o SH53	1227	700	425	13654	11211	11215	526	101	0.237647059
US 95 n/o SH53 Govt Way, e/o US95 Totals	1227 110 3068	700 800	425 48 1171	13654 13643	11211 300	11215 11211	526 84 1069	101 36 +102	0 237647059 0 750000000 -0 087105038
US 95 n/o SH53 Govt Way e/o US95	1227 110 3068	700 800	425 48 1171	13654 13643	11211	11215 11211	526 84 1069	101 36 +102	0 237647059 0 750000000 -0 087105038
US 95 n/o SH53 Govt Way e/o US95 Totals Location	1227 110 3068	700 800	425 48 1171	13654 13643	11211 300	11215 11211	526 84 1069	101 36 +102	0 237647059 0 750000000 -0 087105038
US 65 n/o SH53 Gont Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound	1227 110 3068 AM Total	700 800	425 48 1171	13654 13643	11211 300	11215 11211	526 84 1069	101 36 +102	0.237647059 0.75000000 -0.087105038 Actual AM Peak Count
US 95 fro SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner	1227 110 3068	700 800 M Peak Tir	425 48 1171 M Peak Cou	13654 13643 Link#	11211 300 From Node	11215 11211 To Node	526 84 1069 1 Peak Volume	101 36 •102 Peak Volume	0.237647059 0.750000000
US 65 no SH53 Govt Way e/o US95 Tods Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner	1227 110 3068 AM Total 196	700 800 M Peak Tin 700	425 48 1171 M Peak Cou 71	13654 13643 Link# 44	11211 300 From Node 226	11215 11211 To Node 237	526 84 1069 1 Peak Volume 89	101 36 -102 Peak Volume 18	0.237647059 0.75000000 -0.087105038 Actual AM Peak Count 0.253521127 2.888888889
US 65 fro SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd South of Brunner Diagonal Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41	1227 110 3068 AM Total 196 44 1004 76	700 800 M Peak Tin 700 700 800 800	425 48 1171 M Peak Cou 71 18 384 49	13654 13643 Link# 44 9610 13078 10385	11211 300 From Node 226 230 10914 9776	11215 11211 To Node 237 1099 239 239	526 84 1069 1 Peak Volume 89 70 380 170	101 36 -102 Peak Volume 18 52 -4 121	0.237647050 0.750000000 40.087105038 Actual AM Peak Count 0.253521127 2.88888888 40.010416667 2.469387755
US 65 no SH53 Gort Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seesons Rd East Twin Lake Rd near SH 41 US 95 South of Brunner Rd	1227 110 3068 AM Total 196 44 1004 76 1758	700 800 M Peak Tin 700 700 600	425 48 1171 M Peak Cou 71 18 384 49 647	13654 13643 Link# 44 9610 13078	11211 300 From Node 226 230 10914	11215 11211 To Node 237 1099 239	526 84 1069 4 Peak Volume 89 70 380 170 451	101 36 -102 Pesk Volume 18 52 -4 4 121 -196	0.237647055 0.75000000 40.087105035 0.087105035 0.253521127 2.8888888 40.010416661 2.469387755 40.302936631
US 85 fm SH53 Govt Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner Rd Totals	1227 110 3068 AM Total 196 44 1004 76	700 800 M Peak Tin 700 700 800 800	425 48 1171 M Peak Cou 71 18 384 49	13654 13643 Link# 44 9610 13078 10385	11211 300 From Node 226 230 10914 9776	11215 11211 To Node 237 1099 239 239	526 84 1069 1 Peak Volume 89 70 380 170	101 36 -102 Peak Volume 18 52 -4 121	0.237647055 0.75000000 40.087105035 0.087105035 0.253521127 2.8888888 40.010416661 2.469387755 40.302936631
US 65 no SH53 Gort Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Digoonal Rd south of Brunner SH 41 south of Sessons Rd East Twin Lake Rd near SH 41 US 95 South of Brunner Rd Totals Totals	1227 110 3068 AM Total 196 44 1004 76 1758 3078	700 800 M Peak Tin 700 700 600 800 700	425 48 1171 M Peak Cou 71 18 384 49 647 1169	13654 13643 Link# 9610 13078 10385 13717	11211 300 From Node 226 230 10914 9776 11245	11215 11211 To Node 237 1099 239 239 9902	526 84 1069 4 Peak Volume 89 70 380 380 170 451 1160	101 36 -102 Peak Volume 18 52 -4 121 -196 -9	0.237647055 0.75000000 -0.087105038 Actual AM Peak Coun 0.253521127 2.88888885 -0.010416861 2.469387755 -0.302936631 -0.007698888
US 85 no SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southobund Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Brunner Rd Totals Northbound Ramsey, Rd south of Brunner.	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69	700 800 M Peak Tin 700 600 800 700 600	425 48 1171 M Peak Cou 71 18 384 49 647 1169 28	13654 13643 Link# 44 9610 13078 10385 13717 44	11211 300 From Node 226 230 10914 9776 11245 237	11215 11211 To Node 237 1099 239 239 9902 226	526 84 1069 1 Peak Volume 89 70 380 170 451 1160 160	101 36 -102 Peak Volume 18 52 -4 121 -196 -9 -9 132	0.237647058 0.75000000 40.087105035 Actual AM Peak Coun 0.253521127 2.8888888 0.010416567 2.469387755 0.302936531 -0.007698888 4.714285714
US 95 no SH53 Gort Way elo US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey, Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner Rd Totals Northbound Ramsey, Rd south of Brunner SH 41 south of Seasons Rd	1227 110 3068 AM Total 196 44 1004 76 1758 3078 89 422	700 800 M Peak Tin 700 700 600 800 700 800 700	425 48 1171 M Peak Cou 71 18 384 49 847 1169 28 180	13654 13643 Link# 44 9610 13078 10385 13717 44 13078	11211 300 From Node 226 230 10914 9776 11245 237 239	11215 11211 To Node 237 1009 239 239 239 9902 239 9902 239	526 84 1069 4 Peak Volume 89 70 380 170 4551 1160 281	101 36 -102 Peak Volume 18 52 -4 121 -196 -9 -9 132 101	0.237447055 0.75000000 0.067105035 0.067105035 0.25352112 2.88888888 0.01041666 2.4998775 0.00769888 0.00769888 4.714265714 0.55111111
US 95 rok SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 11 South of Seasons Rd East Twin Lake Rd near SH 141 US 95 South of Brunner Rd Totals Northbound Ramsey Rd south of Brunner Ramsey Rd south of Brunner SH 41 South of Seasons Rd East Twin Lake Rd near SH 41	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69	700 800 M Peak Tin 700 600 800 700 600	425 48 1171 M Peak Cou 71 18 384 49 647 1169 28	13654 13643 Link# 44 9610 13078 10385 13717 44	11211 300 From Node 226 230 10914 9776 11245 237	11215 11211 To Node 237 1099 239 239 9902 226	526 84 1069 1 Peak Volume 89 70 380 170 451 1160 160	101 36 -102 Peak Volume 18 52 -4 121 -196 -9 -9 -9 -9 -9 -132 101 85	0.237647055 0.75000000 40.087105035 Actual AM Peak Coun 0.253521122 2.8888854 40.019416561 2.409387755 40.302936531 -0.007698885 4.714285714 0.5611111111 0.841584155
US 65 no SH53 Gort Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner Rd Totals Northbound Ramsey Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 Degonel Rd Seasons Rd East Twin Lake Rd near SH 41	1227 110 3068 AM Total 196 44 1004 76 1758 3078 89 422 250	700 800 M Peak Tin 700 700 800 700 800 700 700 700 700	425 48 1171 M Peak Cou 71 18 384 49 847 1169 28 180 101	13654 13643 Link# 44 9610 13078 10385 13717 44 13078 10385	11211 300 From Node 226 230 10914 9776 11245 237 239 239	11215 11211 To Node 237 1099 239 9902 239 9902 239 9902 206 10914	526 84 1069 4 Peak Volume 89 70 3800 170 451 1160 1860 2811 1860	101 36 -102 Peak Volume 18 52 -4 121 -196 -9 -9 132 101	0.237647055 0.75000000 0.087105038 0.087105038 0.253521127 2.88888880 0.010416867 2.469387755 -0.302936631 -0.007698885 4.714285714 0.561154155 0.3333333
US 65 no SH53 Gort Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seesons Rd East Twin Lake Rd near SH 41 US 95 south of Diunner Rd Totals Northbound Ramsey Rd south of Brunner SH 41 south of Seesons Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd US 95 south of Prunner Rd	1227 110 3068 AM Total 196 44 1004 76 1758 1758 1758 1758 1758 2078 69 422 250 98	700 800 M Peak Tin 700 700 800 800 700 700 700 700 700 700	425 48 1171 M Peak Cou 71 18 384 49 49 49 49 1169 28 180 101 39	13654 13643 Link# 44 9610 13078 10385 13717 44 13078 10385 9610	11211 300 226 230 10914 9776 11245 237 239 239 1099	11215 11211 To Node 237 1099 239 9902 239 9902 226 10914 9776 230	626 84 1069 4 Peak Volume 89 70 380 170 451 1160 281 1186 281 281 52	101 366 -102 Peak Volume 18 52 4 121 -196 -9 132 101 85 13	0.237647055 0.75000000 4.0087105035 ktusl AM Peek Coun 0.253521122 2.8888888 0.010416567 2.46938775 4.030293653 0.010416567 0.3039653 0.007698885 4.74285714 0.56111111 0.841584155 0.33333333 0.112000000
US 65 r/v SH53 Gort Way efo US95 Totals Location Twin Lakes to Nat. Forest. Screenline <b>#</b> 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 South of Brunner Rd Totals Northbound Ramsey Rd south of Brunner SH41 south of Seasons Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd US 95 south of Brunner Rd Totals	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69 422 250 98 1045 1884	700 800 M Peak Tir 700 800 800 700 700 700 700 700 700 800	425 48 1171 71 18 384 49 647 1169 28 180 101 39 375 723	13854 13643 Link# 44 9610 13078 10385 13717 44 13078 10385 9610 13717	11211 300 From Node 226 230 10914 9776 11245 237 239 239 239 9902	11215 11211 To Node 237 1099 239 9902 228 10914 9776 230 11245	626 84 1069 4 Peak Volume 89 70 380 170 451 1180 281 188 52 417 1096	1011 36 -1002 Peak Volume 18 52 52 52 52 52 52 12 11 12 11 10 11 85 13 3 13 42 42 373	0.237647069 0.75000000 -0.087105039 -0.087105039 -0.0253521127 2.8588889 -0.010416667 2.469387755 -0.30296631 -0.007698888 -0.007698888 -0.007698888 -0.007698888 -0.007698888 -0.007698888 -0.3333033 -0.3333033 -0.15905947 -0.515905947
US 85 no SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Brunner Rd US 95 south of Brunner Rd Totals Northbound Ramsey Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd US 95 south of Brunner Rd Diagonal Rd south of Brunner Rd US 95 south of Brunner Rd	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69 422 250 98 1045 1884	700 800 M Peak Tir 700 800 800 700 700 700 700 700 700 800	425 48 1171 71 18 384 49 647 1169 28 180 101 39 375 723	13854 13643 Link# 44 9610 13078 10385 13717 44 13078 10385 9610 13717	11211 300 226 230 10914 9776 11245 237 239 239 1099	11215 11211 To Node 237 1099 239 9902 228 10914 9776 230 11245	626 84 1069 4 Peak Volume 89 70 380 170 451 1180 281 188 52 417 1096	1011 36 -1002 Peak Volume 18 52 52 52 52 52 52 12 11 12 11 10 11 85 13 3 13 42 42 373	0.237647055 0.75000000 40.087105038 Retual AM Peak Coun 0.253521127 2.85888880 40.010416567 2.469387755 40.302936531 -0.007698888 4.714285714 0.561111111 0.84155 0.33333333 0.112000000
US 95 rule SH53 Gord Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner Ramsey Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 Diagonal Rd South of Brunner Rd US 95 south of Brunner Rd	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69 422 250 98 1045 1884	700 800 M Peak Tir 700 800 800 700 700 700 700 700 700 800	425 48 1171 71 18 384 49 647 1169 28 180 101 39 375 723	13854 13643 Link# 44 9610 13078 10385 13717 44 13078 10385 9610 13717	11211 300 From Node 226 230 10914 9776 11245 237 239 239 239 9902	11215 11211 To Node 237 1099 239 9902 228 10914 9776 230 11245	626 84 1069 4 Peak Volume 89 70 380 170 451 1180 281 188 52 417 1096	1011 38 -1002 Peak Volume 18 52 52 52 52 52 52 12 11 12 11 10 11 85 13 3 13 42 42 373	0.237647055 0.75000000 40.087105035 0.087105035 0.0253521122 2.8588585 0.010416657 2.469387755 4.030293653 -0.007698585 4.714285714 0.56111111 0.841584155 0.3333333 3.0112000000 0.515905947
US 65 no SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH41 South of Seasons Rd East Twin Lake Rd near SH 41 US 95 South of Brunner Ramsey Rd south of Brunner SH41 south of Seasons Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd SH41 South of Brunner Rd SH41 South of Brunner Rd US 95 South of Brunner Rd US 95 South of Brunner Rd US 95 South of Brunner Rd Totals Location US 95 South State Rd near SH 41 Diagonal Rd South of Brunner Rd Totals	1227 110 3068 AM Total 196 44 1004 76 1758 3078 89 422 250 98 1045 1884 AM Total	700 800 M Peak Tin 700 700 800 800 700 700 700 700 700 700	425 48 1171 M Peak Cou 71 18 384 49 169 1169 28 160 101 101 39 375 723 M Peak Cou	13654 13643 Link# 44 9610 13076 10385 13717 44 13078 10385 9610 13717 Link#	11211 300 From Node 226 230 10914 9776 11245 239 239 239 9902 From Node	11215 11211 To Node 237 1099 239 239 9902 9902 226 10914 9776 2300 11245 To Node	626 84 1069 4 Peak Volume 89 70 380 170 451 1180 186 52 417 1096 4 Peak Volume	1011 368 -102 Pack Volume 18 52 -4 121 121 121 101 855 133 422 373 425 848 Volume	0.237647055 0.75000000 4.0087105035 Retual AM Peek Coun 0.253521122 2.8888888 4.0010416567 2.469387755 4.030293663 4.010416567 4.030293663 4.010416567 4.030293663 0.007698885 4.010416567 4.041584155 0.3333333 0.112000000 0.515905947 Retual AM Peek Coun
US 95 five SH53 Gort Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey, Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner Ramsey, Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 Diagonal Rd South of Brunner Rd US 95 south of Brunner Rd Totals Location US 95 to SH 3 South Screenline # 12 Southbound SH 97 north of Harrison	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69 422 250 98 1045 1884 AM Total 32	700 800 M Peak Tin 700 700 800 800 700 700 700 700 700 700	425 48 1171 M Peak Cou 71 18 384 49 647 1169 28 180 109 375 723 W Peak Cou 17	13654 13643 Link# 44 9610 13078 10385 13717 44 13078 10385 9610 13717 Link# 13052	11211 300 From Node 226 230 10914 10914 11245 237 239 9902 9002 From Node	11215 11211 To Node 239 239 9902 226 10914 9776 230 11245 To Node	626 84 1069 1 Peak Volume 89 70 380 380 170 451 1160 160 281 186 52 417 1096 4 Peak Volume 75	1011 366 -102 Pask Volume 18 522 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	0.237647055 0.75000000 4.0087105035 Retual AM Peek Coun 0.253521122 2.8888888 4.0010416567 2.469387755 4.030293663 4.010416567 4.030293663 4.010416567 4.030293663 0.007698885 4.010416567 4.041584155 0.3333333 0.112000000 0.515905947 Retual AM Peek Coun
US 95 ruo SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey. Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner Ramsey. Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 Dagonal Rd south of Brunner Rd US 95 south of Brunner Rd East Twin Lake Rd near SH 41 Dagonal Rd south of Brunner Rd US 95 south of Brunner Rd US 95 south of Brunner Rd US 95 south of Brunner Rd Totals Location US 95 to 5H 3 South Screenline # 12 Southbound SH 97 north of Harrison Cave Bay Rd Q Rock Creek	1227 110 3068 AM Total 196 44 1004 75 3078 69 422 250 98 422 250 98 1045 1884 AM Total AM Total 32 62	700 800 700 700 800 700 700 700 700 700	425 48 1171 M Peak Cou 71 18 384 49 49 169 169 169 375 723 375 723 M Peak Cou 17 25	13654 13643 13643 13643 44 13078 10385 13717 44 13078 10385 9610 13717 13717 13717 13752 1206	11211 300 From Node 226 230 10314 9776 11245 237 239 233 233 1099 9902 From Node	11215 11211 To Node 237 1099 239 239 239 239 239 239 239 239 239 2	626 84 1069 4 Peak Volume 89 70 380 170 451 1180 281 1180 281 188 52 417 1096 4 Peak Volume 75 0	1011 368 -102 Peak Volume 18 522 -44 121 121 126 -9 -9 -132 1011 855 422 373 422 373 425 -658 -7588 -758 -758 -758 -758 -758 -758 -758 -758 -758 -758	0.237647055 0.75000000 40.087105035 0.087105035 0.253521122 2.8588585 40.010416667 2.46938775 40.30293653 4.714285714 4.714285714 0.5611511111 0.841584156 0.3333333 0.112000000 0.515905947 Actual AM Peak Coun 3.411764700
US 95 row SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 14 Jouth of Seasons Rd East Twin Lake Rd near SH 41 US 95 South of Brunner Rd Totals Northbound Ramsey Rd south of Brunner Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd US 95 south of Brunner Rd SH 41 South of Brunner Rd St 49 South of Brunner Rd Southbound SH 97 north of Harrison Cave Bay Rd 02 Rock Creek	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69 422 250 98 1045 1884 AM Total 32 62 72	700 800 M Peak Tin 700 700 800 800 700 700 700 700 700 700	425 48 1171 M Pesk Cou 71 18 384 49 49 28 180 28 180 28 180 28 180 28 180 28 180 28 180 28 180 28 180 28 28 27 23 M Pesk Cou	13654 13643 Link# 44 9610 13076 10365 13717 44 13078 9610 13717 44 13078 9610 13717 Link# 13062 1208 1213	11211 300 From Node 226 230 10914 9776 11245 239 239 9902 From Node From Node	11215 11211 1000 237 1039 239 239 239 239 239 239 239 239 239 2	626 84 1069 4 Peak Volume 89 70 380 380 370 451 1180 160 281 1180 160 281 1180 160 281 1180 160 451 451 451 451 451 451 451 477 477 477 477 477 477 477 477 477 47	1011 366 -102 Feck Volume 18 52 42 121 121 131 132 132 132 132 13	0.237647055 0.75000000 -0.037105035 
US 95 ruk SH53 Gort Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey. Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seasons Rd East. Twin Lake Rd near SH 41 US 95 south of Drunner Rd Totals Northbound Ramsey. Rd south of Brunner SH 41 south of Brunner SH 41 south of Beasons Rd East. Twin Lake Rd near SH 41 Disgonal Rd south of Brunner By 141 south of Brunner Rd Us 95 south of Brunner Rd Disgonal Rd south of Brunner Bit 1 South Screenline # 12 Southbound SH 97 north of Harrison Cave Bay Rd @ Rock Creek SH 97 north of SH 3 Suth South Screenline # 12 Southbound	1227 110 3068 AM Total 196 44 1004 76 76 76 77 3078 89 422 250 98 422 250 98 1045 1884 1045 1884 AM Total	700 800 M Peak Tir 700 600 800 700 700 700 700 800 800 800 800 8	425 48 1171 M Peak Cou 71 18 384 49 647 1169 28 49 49 647 1169 395 375 723 39 375 723 M Peak Cou 101 17 25 28 210	13654 13643 Link# 44 9610 13078 10385 13717 13078 10385 9610 13717 13078 10385 9610 13717 13078 10078 10000000000	11211 300 From Node 226 230 10914 9776 11245 237 239 239 239 239 239 239 239 239	11215 11211 11211 1009 237 239 239 239 239 239 239 239 239 239 239	626 84 1069 4 Peak Volume 89 70 380 170 451 1160 281 186 62 281 451 451 186 62 281 451 451 186 62 281 451 451 451 451 451 452 457 457 457 457 457 457 457 457 457 457	1011 188 -102 Peak Volume 18 522 -4 -196 -9 -196 -9 -196 -9 -197 -196 -9 -197 -197 -197 -9 -132 101 -197 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9	0.23764705 0.75000000 4.087105035 Actual AM Peak Coun 0.253521122 2.8588885 4.001041866 2.469387755 4.30293663 4.714285714 0.55111111 0.841584155 0.333333 0.11200000 0.515605941 Actual AM Peak Coun 3.411764700 0.50000000 0.104761905 0.00761905
US 95 rov SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 41 South of Seesons Rd East Twin Lake Rd near SH 41 US 95 South of Brunner Rd Totals Northbound Ramsey Rd south of Brunner Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd US 95 South of Brunner Rd Totals Location US 95 South of Brunner Rd Southbound SH 97 north of Harrison Cave Bay Rd @ Rock Creek SH 97 north of SH 3 US 95 SO Worley SH 3 @ Benewal Co. Line	1227 110 3068 AM Total 196 44 1004 76 1758 3078 89 4422 250 98 1045 1884 1884 AM Total AM Total 32 62 72 483 319	700 800 700 700 800 800 800 700 700 700	425 48 1171 M Peak Cou 71 18 384 49 49 100 101 100 39 375 723 W Peak Cou 101 101 39 375 723 100 101 101 39 375 723 100 101 101 101 101 101 101 101 101 10	13854 13643 13643 Link # 44 9610 13078 10385 9610 13717 44 13078 9610 13717 13717 13717 13717 13717 13717 13717 13052 13052 13052 13052 13052 13717 13052 13052 13717 13052 13717 13	11211 300 From Node 226 230 10914 9776 11245 239 239 9902 From Node From Node	11215 11211 1000 237 1099 239 239 239 239 239 239 239 239 239 2	626 84 1069 1 Peak Volume 89 70 380 380 170 451 1160 281 1160 281 1180 160 281 1180 160 451 451 451 1180 1096 4 Peak Volume 75 0 42 232 270	1011 366 -102 Peak Volume 18 52 42 121 121 131 132 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 423 424 424 424 424 424 42	0.237647055 0.75000000 4.0037105035 ktual AM Peak Coun 0.253521122 2.8888888 0.010416567 2.469387755 4.30293653 0.007698888 4.714285714 0.561111111 0.841554155 0.33333333 0.112000000 0.515905947 ktual AM Peak Coun 3.411764700 0.1047761905 4.045294118
US 65 no SH53 Gort Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey, Rd south of Brunner Digonal Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner Ramsey, Rd south of Brunner SH 41 south of Seasons Rd Enst Twin Lake Rd near SH 41 Digonal Rd south of Brunner SH 41 south of Seasons Rd Enst Twin Lake Rd near SH 41 Digonal Rd South of Brunner Rd US 95 south of Brunner Rd Totals Location US 95 to SH 3 South Screenline # 12 Southbound SH 97 north of SH 3 South South Screenline # 12 Southbound SH 97 north of SH 3 South South Screenline # 12 Southbound SH 97 north of SH 3 South South Screenline # 12 Southbound SH 97 north of SH 3 South South Screenline # 12 Southbound SH 97 north of SH 3 South South Screenline # 12 Southbound SH 97 North of SH 3 South South Screenline # 12 Southbound SH 97 North of SH 3 South South Screenline # 12 Southbound SH 97 North SH 3 South South Screenline # 12 South Science Scie	1227 110 3068 AM Total 196 44 1004 76 76 76 77 3078 89 422 250 98 422 250 98 1045 1884 1045 1884 AM Total	700 800 M Peak Tir 700 600 800 700 700 700 700 800 800 800 800 8	425 48 1171 M Peak Cou 71 18 384 49 647 1169 28 49 49 647 1169 395 375 723 39 375 723 M Peak Cou 101 17 25 28 210	138543 136543 13643 13643 44 9610 13076 13717 10385 13717 13078 13078 13717 13078 130717 130717 130717 130712 12052 1216 1217 1213 1213 1213 1213 1213 1213 1213	11211 300 From Node 226 230 10914 9776 11245 237 239 239 239 239 239 239 239 239	11215 11211 11211 1009 237 239 239 239 239 239 239 239 239 239 239	626 84 1069 4 Peak Volume 89 70 380 170 451 1160 281 186 62 281 451 451 186 62 281 451 451 186 62 281 451 451 451 451 451 452 457 457 457 457 457 457 457 457 457 457	1011 366 -102 Peak Volume 18 52 42 121 121 131 132 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 373 422 423 424 424 424 424 424 42	0.237647055 0.75000000 40.087105038 Retual AM Peak Count 0.253521127 2.85838580 -0.010416667 2.469387755 -0.30236531 -0.007598888 4.714285714 0.55111111 0.841584158 0.3333333 0.112000000 0.515905947
US 65 no SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 13 South of Brunner SH 14 South of Brunner Bast Twin Lake Rd near SH 14 US 95 South of Brunner Ramsey Rd south of Brunner SH 14 South of Brunner Bast Twin Lake Rd near SH 14 Diagonal Rd south of Brunner Ramsey Rd south of Brunner Ramsey Rd South of Brunner Ramsey Rd South of Brunner Bast Twin Lake Rd near SH 14 Diagonal Rd south of Brunner Rd US 95 South of Brunner Rd Diagonal Rd South Screenline # 12 Southbound SH 97 north of Harrison Cave Bay Rd QB Rock Creek SH 97 north of SH 3 US 95 SOV Workey SH 3 QB Behavemal Co. Line US 95 NOV Workey Diagona Rd wavema Co. Line	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69 422 250 98 1045 1884 AM Total 32 62 72 72 483 319 444	700 800 M Peak Tir 700 600 800 700 700 700 800 800 800 800 800 8	425 48 1171 M Peak Cou 18 384 49 647 1169 28 647 1169 28 180 101 39 375 723 M Peak Cou 17 25 28 210 138 200	13854 13643 13643 Link # 44 9610 13078 10385 9610 13717 44 13078 9610 13717 13717 13717 13717 13717 13717 13717 13052 13052 13052 13052 13052 13717 13052 13052 13717 13052 13717 13	11211 300 From Node 226 230 10914 9776 237 239 239 239 9902 From Node From Node	11215 11211 11211 To Node 239 239 239 239 239 239 239 239 239 230 230 10914 10915 10055 10055 10083 10085 10083 10085	626 84 1069 4 Peak Volume 89 70 380 170 451 1160 281 186 52 281 1095 4 Peak Volume 75 0 4 Peak Volume 75 0 4 2 2 2 32 70 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1011 366 -102 Peak Volume 522 -4 121 -196 -9 -9 -132 1011 855 133 422 373 264 Volume 588 -25 -25 -25 -25 -79 79	0.237647055 0.75000000 4.0087105035 ktual AM Peek Coun 0.253521122 2.8888888 4.0010416567 2.469387755 4.030293663 4.010416567 4.030293663 0.007698885 4.714285714 0.561111111 0.841584155 0.3333333 0.11200000 0.515905947 ktual AM Peek Coun 3.411764700 0.0104761900 0.0104761900 0.0455294115 0.3855000000 0.5500000000
US 95 no SH53 Gort Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seesons Rd East Twin Lake Rd near SH 41 US 95 south of Drunner Rd Totals SH 41 south of Seesons Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner SH 41 south of Seesons Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd US 95 south of Drunner Rd US 95 south of Drunner Rd US 95 south of Brunner Rd US 95 south of Brunner Rd Diagonal Rd south of Brunner Rd US 95 south	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69 4422 250 98 1045 1884 1884 AM Total 32 62 72 483 319 444 106	700 800 M Peak Tir 700 600 800 700 700 700 800 800 800 800 800 8	425 48 1171 M Peak Cou 71 18 384 49 49 49 169 169 169 17 39 375 723 101 39 375 723 101 139 375 723 101 139 375 723 101 117 25 28 20 210 218 218 218 218 218 218 218 218 218 218	138543 13643 13643 44 9610 13078 13777 44 13078 41 13078 41 13078 41 13078 41 13078 13717 13078 13717 13078 13717 13078 13717 13078 13717 13078 13717 13078 10078 10000 100780	11211 300 From Node 226 230 10914 9776 11245 237 239 239 239 239 239 209 9902 From Node	11215 11211 10 Node 237 1059 239 239 239 239 239 230 230 10914 10914 10915 10015 1078 10839 10015	626 84 1069 4 Peak Volume 89 70 380 170 451 1160 281 1160 281 1186 281 1186 281 1186 281 1186 281 1186 281 1186 452 417 1096 422 232 270 279 66 764	1011 366 -102 Peak Volume 18 52 -4 121 121 121 133 1422 373 422 373 422 373 422 -255 -44 -102	0.23764705 0.7500000 4.087105035 Retual AM Peek Coun 0.253521122 2.8588885 -0.010416667 2.46938775 -0.307493653 -0.00769888 4.714285714 0.55111111 0.841584155 0.3333333 0.11200000 0.515905947 Actual AM Peek Coun 
US 95 five SH53 Gort Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey, Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner Ramsey, Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 Diagonal Rd South of Brunner Boy South of Brunner Rd US 95 south of Harrison Cave Bay Rd 69 Rock Creek SH 97 north of SH 3 US 95 SO Worley Daara Rd west of SH 97 Totals Northbound SH 97 north of Harrison	1227 110 3068 AM Total 196 44 1004 175 3078 3078 422 250 98 1045 1884 AM Total AM Total 32 62 77 72 483 319 444 106 1518 70	700 800 M Peak Tir 700 700 800 800 700 700 700 700 700 800 8	425 48 1171 M Peak Cou 71 18 384 49 647 1169 28 647 1169 28 180 101 39 375 723 375 723 M Peak Cou M Peak Cou 17 17 25 28 210 138 200 44 660 37	13854 13854 13643 13643 44 9610 10385 13717 13078 13078 13078 13078 13078 13077 13078 13072 13072 13052 131213 1213 1213 1213 1213 1213 1213	11211 300 From Node 226 230 10914 276 11245 237 239 9902 9902 From Node From Node From Node 1061 1073 1079 1089 9728 10899	11215 11211 11211 To Node 239 239 239 239 239 239 239 239 230 10914 10914 10914 10245 10914 10245 10015 1078 10839 10015 1078 10839 10015 10839 10859 10839 10859 10839 10859 10839 10859 10839 10859 10839 10859 10954 10859 10954 10859 10954 10859 10954 10859 10954 10859 10954 10859 10954 10859 10955 10859 10955 10859 10955 10859 10955 10859 10955 10859 10955 10859 10955 10859 10955 10859 10955 10859 10955 100555 10055 100555 100555 100555 100555 100555 1005555 1000	626 84 1069 4 Peak Volume 89 70 380 170 451 1160 281 186 52 417 1096 6 6 75 0 42 232 232 70 0 279 66 6 764	1011 365 -102 Peak Volume 18 522 -4 1211 -196 52 -101 85 132 1011 85 132 1011 85 132 1011 85 132 202 202 202 202 202 202 202 2	0.237647055 0.75000000 0.087105035 0.087105035 0.087105035 0.0253521121 2.88888888 0.01041666 2.4998775 0.00769888 0.00769888 0.00769888 0.00769888 0.00769888 0.00769888 0.00769888 0.00769888 0.00769888 0.0076988 0.0076988 0.00769888 0.00769888 0
US 95 run SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Diunner Rd Totals SH 41 south of Diunner Rd Bit 41 south of Brunner SH 41 south of Brunner SH 41 south of Brunner Ramsey. Rd south of Brunner SH 41 south of Brunner Rd US 95 south of Brunner Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd US 95 south of Brunner Rd Totals Location US 95 for SH 3 South Screenline # 12 Southbound SH 97 north of Harrison Cave Bay Rd (9 Rock Creek SH 97 north of SH 3 US 95 SO 90 Vorley US 95 SO Workey SH 32 Benevent Co. Line US 95 SO Workey SH 32 Benevent Co. Line US 95 SO Workey SH 37 north of Harrison Cave Bay Rd (9 Rock Creek	1227 110 3068 AM Total 196 44 1004 75 3078 69 422 250 98 422 250 98 1045 1884 AM Total 32 62 72 483 319 444 106 1518	700 800 M Peak Tir 700 600 800 700 700 700 700 700 700 700 800 8	425 48 1171 M Peak Cou 71 18 384 49 169 169 169 17 28 180 49 169 169 17 27 28 180 39 375 723 375 723 M Peak Cou 101 139 375 723 101 117 25 28 200 44 660 44 660 37 22	138543 13643 13643 13643 13643 44 44 44 44 13078 13078 13717 13717 13717 13717 13717 13717 13717 13717 13717 13717 13717 13716 13717 1206 13614 10,283 13052 13052 13052 13052	11211 300 From Node 226 230 10314 9776 11245 237 239 233 1069 9902 From Node 1061 1077 1079 1061 1077 1079 10819 9726 10899 10899 10899	11215 11211 10 Node 2337 10599 239 239 239 239 239 239 239 230 10914 10245 10915 10015 10055 10839 10015 10839 10839 10839 10839 10611 1078	626 84 1069 4 Peak Volume 89 70 380 170 451 1180 281 1180 281 188 52 417 1096 4 Peak Volume 75 0 4 Peak Volume 75 75 6 6 764 764 764	1011 368 -102 Peak Volume 18 52 -44 121 196 -9 -132 101 101 855 13 422 373 422 -34 -496 -52 -496 -52 -496 -52 -496 -52 -496 -52 -496 -52 -496 -52 -496 -52 -496 -52 -496 -52 -496 -52 -496 -52 -496 -52 -496 -52 -52 -496 -52 -52 -52 -52 -52 -52 -52 -52	0.237447053 0.75000000 4.067105038 Actual AM Peek Coun 0.253521122 2.8388888 4.01041666 2.46938775 4.030293663 0.007698888 4.714285714 0.56111111 0.841584152 0.333333 0.11200000 0.515905941 4.714285714 0.555905941 4.714285741 0.555905941 3.411764700 0.555905941 0.455294119 0.455294119 0.455294119 0.455294119 0.45529418181
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US 95 run SH53 Gort Way e/o US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH41 South of Seasons Rd East Twin Lake Rd near SH 41 US 95 South of Brunner Rd Totals Northbound Ramsey Rd south of Brunner Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd US 95 South South Screenline # 12 Southbound SH 97 north of Harrison Cave Bay Rd 05 Rock Creek SH 97 north of SH 3 US 95 SOU Worley Ogans Rd weak of SH 97 Totals SH 97 north of Harrison Cave Bay Rd 05 H3 SUG Worley SH 97 north of Harrison Cave Bay Rd 05 H3 US 95 SOU Worley SH 97 north of Harrison Cave Bay Rd 05 H3 US 95 SOU Worley SH 97 north of Harrison Cave Bay Rd 05 H3 US 95 SOU Worley SH 97 north of SH 3 US 95 SOU Worley SH 30 QBenewand Co. Line	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69 4422 250 98 1045 1884 884 1045 1884 AM Total 32 62 72 483 319 444 106 1518 70 52 52 52 435	700 800 700 700 800 800 800 700 700 700	425 48 1171 M Peak Cou 71 18 384 49 169 28 160 101 39 375 723 M Peak Cou 101 101 39 375 723 M Peak Cou 101 101 101 101 39 375 723 101 101 101 101 39 375 723 101 101 101 101 101 101 101 101 101 10	13854 13643 13643 13643 44 44 13078 13078 13717 44 13078 9810 10385 9810 10385 13717 13717 13717 13717 13717 13717 13717 13717 13052 1218 1220 13164 1218 1220 1218 12128 1218	11211 300 From Node 226 230 10914 9776 239 239 1099 9902 From Node From Node 10011 1077 1079 1089 9726 10899 10089 10089 10076 1078 10899 10076 1078 10899 10076 10786 10	11215 11211 11211 To Node 237 239 239 239 239 239 239 239 239 239 239	626 84 1069 4 Peak Volume 99 70 380 170 451 1180 186 52 417 1096 4 Peak Volume 75 0 42 232 2 70 279 66 764 52 44 76 52 4 52 52 52 52 52 52 52 51 51 52 52 52 52 52 52 52 52 52 52 52 52 52	1011 366 -102 Peak Volume 18 52 -4 121 121 196 -9 -9 -9 -132 132 133 422 373 422 -365 -44 -102 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9	0.237647055 0.75000000 0.0253521122 2.8588585 0.010416567 2.46938775 0.000416567 2.46938775 0.000416567 0.3023653 0.010416567 0.30335333 0.11200000 0.515905947 4.714265714 0.41554155 0.3333333 0.0104761905 0.550000000 0.550000000 0.51575755 0.405405401 0.530000000 0.51575755 0.405405401 0.5333333 0.013355333 0.013355333 0.013355333 0.013355333 0.01335533 0.01335533 0.01335533 0.01335533 0.0133553 0.0133553 0.0133553 0.0133553 0.013355 0.013355 0.013355 0.013355 0.013355 0.013355 0.013355 0.013355 0.01335 0.01335 0.01335 0.01335 0.01335 0.01335 0.01335 0.01335 0.0133 0.0133 0.0133 0.0133 0.0133 0.013 0 0.01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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US 65 n/o SH53 Gort Way efo US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner Self 14 i south of Secons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner Rd Totals Northbound Ramsey Rd south of Brunner SH 41 south of Seasons Rd East Twin Lake Rd near SH 41 Diagonal Rd south of Brunner Rd Totals Northbound Ramsey Rd south of Brunner Rd US 95 south of Brunner Rd St 37 north of Harrison Case Bay Rd Q Rock Creak SH 37 north of Harrison SH 39 Torth of SH 3 US 95 SV Workey SH 30 Workey SH	1227 110 3068 AM Total 196 44 1004 76 1758 3078 69 4422 250 98 1045 1884 89 4422 250 98 1045 1884 AM Total 32 62 72 483 319 444 106 1518 70 52 52 52 52 52 52 52 52 52 52 52 52 52	700 800 700 700 800 800 800 700 700 700	425 48 11771 M Peak Cou 71 18 384 49 647 1169 28 180 49 169 28 180 101 39 375 723 101 39 375 723 101 39 375 723 101 135 200 44 46 660 37 22 28 210 44 660 37 27 27 27 27 27 27 27 27 27 27 27 27 27	13854 13643 13643 13643 44 44 13078 13078 13717 44 13078 9810 10385 9810 10385 13717 13717 13717 13717 13717 13717 13717 13717 13052 1218 1220 13164 1218 1220 1218 12128 1218	11211 300 From Node 226 230 10914 9776 239 239 1099 9902 From Node From Node 10011 1077 1079 1089 9726 10899 10089 10089 10076 1078 10899 10076 1078 10899 10076 10786 10	11215 11211 11211 To Node 237 239 239 239 239 239 239 239 239 239 239	626 84 1069 4 Peak Volume 89 70 380 170 451 1180 281 1180 281 1180 283 417 1096 422 2322 70 249 2322 70 229 265 764 764 765 764 764 765 764 765 765 764 765 765 765 765 765 765 765 765 765 765	1011 368 +102 Peak Volume 18 52 -4 18 52 -4 18 18 52 -4 18 18 52 -4 18 121 196 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9	0.23764705 0.7500000 0.0253521122 2.8588580 0.010416567 2.46938775 0.010416567 2.46938775 0.00799858 0.010416567 0.30330333 0.015905947 0.55905947 0.55905947 0.55905947 0.55905947 0.055955 0.05595 0.055955 0.05595 0.05595 0.05595 0.05595 0.05595 0.05595 0.05595 0.0559 0.0559 0.0559 0.0559 0.0559 0.0559 0.055 0.
US 95 rule SH3 Gort Way efo US95 Totals Location Twin Lakes to Nat. Forest. Screenline <b>#</b> 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH41 south of Seasons Rd East Twin Lake Rd near SH 41 US 95 south of Brunner Rd Totals Northbound Ramsey Rd south of Brunner SH41 south of Beanner Rd US 95 south of Brunner Rd Diagonal Rd South of Brunner Bayonal Rd South of Brunner Bayonal Rd South of Brunner Bus Thin Lake Rd near SH 41 Diagonal Rd South of Brunner Rd US 95 south of Brunner Rd Southbound SH 97 north of Harrison Cave Bay Rd (@ Rock Creek SH 97 north of SH 3 US 95 SVO Worky Ogare Rd west of SH 97 Totals Northbound SH 97 north of SH 3 US 95 SVO Worky Ogare Rd west of SH 97	1227 110 3068 AM Total 196 44 1004 76 76 76 76 76 76 76 76 76 76 76 76 76	700 800 M Peak Tir 700 600 700 700 700 700 700 700 800 800 800 8	425 48 1171 M Peak Cou 71 18 384 49 647 1169 847 1169 180 101 39 375 723 W Peak Cou 101 139 375 723 W Peak Cou 130 101 39 375 723 101 135 28 306 44 44 64 64 64 125 28 37 22 18 206 44 135 206 44 135 206 44 135 206 44 135 206 44 135 206 44 135 206 44 135 206 44 135 206 44 135 206 47 14 15 206 47 15 206 47 15 207 207 207 207 207 207 207 207 207 207	138543 13843 13843 13843 13843 13843 13843 100385 13717 1371	11211 300 From Node 226 230 10914 9776 237 239 239 239 239 239 239 239 239	11215 11211 11211 To Node 239 239 239 239 239 239 239 239 230 10914 10915 10015 10051 10089 10015 1078 10899 10015 1078 1079 1078 1077 1077 1077 1077	626 84 1069 4 Peak Volume 89 70 380 170 451 1160 281 186 652 417 451 186 652 417 451 451 452 417 452 70 755 66 765 765 755 232 232 700 279 565 765 765 775 755 755 755 755 755 755	1011 1013 1013 1024 1025 1025 1011 1025 1011 1025 1011 1025	0.237647055 0.75000000 4.087105035 0.4087105035 0.253521122 2.8588885 4.0010415667 2.469387755 4.030293653 4.714285714 0.56111111 0.841584155 0.3333333 0.11200000 0.515905941 3.411764700 0.515905941 3.411764700 0.55000000 0.01575755 0.405294115 1.8333333 0.14333333 0.14333333 3.411764700 0.55000000 0.55000000 0.55000000 0.55000000 0.55000000 0.55000000 0.557575 0.40540540 4.3333333 0.0454054 4.3333333 0.0454054 0.3333333 0.0454054 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.0433333 0.04335504 0.333333 0.04335504 0.3333333 0.04335504 0.3333333 0.04335504 0.3333333 0.04335504 0.3333333 0.04335504 0.3333333 0.04335504 0.3333333 0.04335504 0.3333333 0.04335504 0.3333333 0.04335504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.3333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.3333333 0.04345504 0.333333 0.04345504 0.3333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.333333 0.04345504 0.333333 0.0434 0.333333 0.043455 0.0455 0.0455 0.0455 0.0455 0.0455 0.045 0.05 0.0
US 65 no SH53 Gort Way eto US95 Totals Location Twin Lakes to Nat. Forest. Screenline # 11 Southbound Ramsey Rd south of Brunner Diagonal Rd south of Brunner SH 14 I south of Seesons Rd East Twin Lake Rd near SH 141 US 95 south of Drunner Rd Totals Northbound Ramsey Rd south of Brunner SH 141 south of Seasons Rd East Twin Lake Rd near SH 141 Diagonal Rd south of Brunner Rd Totals Seator Rd Seasons Rd East Twin Lake Rd near SH 141 Diagonal Rd south of Brunner Rd US 95 south of Brunner Rd Totals Seator Rd South of Brunner Rd US 95 south of Brunner Rd Totals Seator Station US 95 South Screenline # 12 Southbound SH 97 north of Harrison Cave Bay Rd Q Rock Creek SH 97 north of SH 3 US 95 SOU Workey SH 30 Dentwah Co. Line US 95 NOV Workey SH 30 Dentwah Co. Line US 95 SOU Workey SH 30 Dentwah Co. Line Ogara Rd west of SH 97 US 95 NUC Workey	1227 110 3068 AM Total 196 44 1004 75 3078 69 422 250 98 1045 1884 AM Total 32 62 72 483 319 444 106 1518 70 52 52 52 52 52 52 52 52 52 52 52 52 52	700 800 800 700 600 800 700 700 700 800 700 700 700 800 8	425 48 11771 71 18 384 49 49 169 28 180 49 169 28 180 39 375 723 101 39 375 723 101 39 375 723 101 135 200 44 46 200 44 46 20 44 46 20 21 25 28 28 20 41 25 28 28 20 44 25 28 28 20 44 25 28 28 20 20 44 25 28 28 28 20 20 20 20 20 20 20 20 20 20 20 20 20	138543 13643 13643 13643 44 44 9610 9610 9610 10385 9610 10378 44 13078 9610 103787 44 13078 9610 103787 44 13078 13717	11211 300 From Node 226 230 10914 9776 11245 237 239 239 239 239 239 239 239 239	11215 11211 10 Node 237 10590 239 239 239 239 239 239 239 230 10914 10245 10914 10245 10915 10015 1078 10839 10015 1078 10839 10015 1078 10839 10015 1078 10839 10915 1077 1077 1077 1077 1077 1077 1077	626 84 1069 4 Peak Volume 89 70 380 170 451 1180 281 1180 1180	1011 368 -102 Peak Volume 52 -44 121 -196 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9	0.23764705 0.7500000 0.0253521122 2.8588580 0.010416567 2.46938775 0.010416567 2.46938775 0.00799858 0.010416567 0.30330333 0.015905947 0.55905947 0.55905947 0.55905947 0.55905947 0.055955 0.05595 0.055955 0.05595 0.05595 0.05595 0.05595 0.05595 0.05595 0.05595 0.0559 0.0559 0.0559 0.0559 0.0559 0.0559 0.055 0.



### AM PK HR Screenline Validation 2010 KMPO BaseDRAFT Final 12-10-12.ver

Calibrated AM Model 12-10-12 by KMPO

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louthbound									
JpRiver Drwest of US 95 H 3 S/0 I 90	54	800 700	28 52	13235 1148	11004	940 1034	94	66 230	2.3571428 4.4230769
H 97 N/O Burma	193	600	76	13759	1030	11266	104	230	0.3684210
ougar Gulch Rd west of US 95	71	700	32	9644	969	9457	41	9	0.2812500
aTour Creek Rd south of I 90	10	800	5	11687	10339	1057	20 541	15	3.0000000
otals	475		193	2			541	348	1.8031088
lorthbound h 3 S/O I 90	237	700	95	1148	1034	1030	168	73	0.7684210
H 97 N/O Burma	393	700	173	13759	11266	1030	100	-29	-0.1676300
Cougar Gulch Rd west of US 95	235	800	114	9644	9457	969	77	-37	-0.3245614
aTour Creek Rd south of 1 90	33	600	16	11687	1057	10339	13	-3	-0.1875000
otals	898	8	398	9	2		402	4	0 0100502
courses	AM Total	L De al Tie	A Deal Court	Lintell	Frank Marda	To Made	De als Male and	and Malana	
ocation pirit Lake Pend'O Reille Screenline #14	AM TOLA	M Peak Th	M Peak Coul	LINK#	From Node	10 Node	n Peak Volume	and A cumue	Actual AM Peak Cou
Southbound	1	10-00		0					
SH 41 south of Spirit Lake	999	600	351	13597	11191	213	387	36	0.1025641
erimeter Rd north of SH 54	46	600	18	13462	202	11136	39	21	1.1686666
IS 95 north of Athol	694	700	254	10563	201	9857	308	54	0.2125984
H 41 north of Spirit Lake	674	600	246	13600	11192	198	200	-46	-0 1869918
otals	2413	-	869				934	65	0.0747986
Iorthbound	446	800	184	13597	213	11191	293	109	0 5923913
H 41 south of Spirit Lake Perimeter Rd north of SH 54	17	700	104	13597	11136	202	293	109	1.6666666
IS 95 north of Athol	803	800	286	10563	9857	202	291	5	0.0174825
H 41 north of Spirit Lake	296	800	138	13600	198	11192	127	-11	-0.0797101
otals	1562		614				727	113	0.1840390
				2					
AST - WEST SCREENLINES - KMPO ocation Pleasant View Rd. Screenline # 15 astbound	AM Total	M Peak Tin	M Peak Cou	Link#	From Node	To Node	1 Peak Volume	Peak Volume	Actual AM Peak Co
SH 53	997	700	366	13930	440	11347	289	-77	-0.2103825
eltice Way	564	800	231	13164	647	10965	200	-31	-0.1341991
rairie Rd	256	700	98	8834	473	9019	90	-8	-0.0816326
iverbend Ave	92	800	41	9371	9222	9226	81	13161	321.0000000
H 53 (W/O Prairie Ave)	762	700	273	10750	9945	471	207	-66	-0.2417582
oteline Ave.	28	800	11 1020	13161	544	10964	868	-10	-0.9090909 -0.1490196
Vestbound	2000	-	1020	-	-		000	1102	10,11400130
		G ware in		Summer .	2	1	(		
H 53	1174	600	487	13930	11347	440	648	161	0.3305954
ettice Way	693	700	242	13164	10965	647	489	247	1.0206611
Yairie Rd Werbend Ave	339	700	133 74	8834 9371	9019 9226	473	125	-8 653	-0.0601503 8.8243243
H 53 W/O Prairie Ave	1444	600	544	10750	471	9945	470	-74	-0.1360294
oleline Ave	88	700	34	13161	10964	544	1	-33	-0 9705882
	3927	100	1514	19101	8		2460	946	
otals			1514					946	0.6248348
otals			1514		From Node	To Node	2460 4 Peak Volume	946	0.6248348 Actual AM Peak Col
otals ocation IcGuire Rd. Screenline #16			1514		From Node	To Node		946	0.6248348
otals ocation IcGuire Rd. Screenline ≢16 astbound	AM Total	M Peak Tir	1514 M Peak Cou	Link#			4 Peak Volume	946 <sup>p</sup> eak Volume	0.6248348 Actual AM Peak Co
otals ocation IcGuire Rd. Screenline #16 astabound HI 53			1514		From Node 401 651	To Node 366 652		946	0.6248348
otels ocation IcGuire AL Screenline #16 asabound SH 53 SH 53 SH fc5 Way Wolline Ave.	AM Total 829 964 114	M Peak Tin 800 800 700	1514 M Peak Cour 308 405 44	Link# 248 13231 10168	401 651 547	366 652 9672	4 Peak Volume 344 406 44	946 <sup>p</sup> eak Volume	0.6248349 Actual AM Peak Co 0.1168831 0.0024691 0.0000000
otals ocation InfoQuire Rd, Screenline # 16 astbound \$H 53 Seltice Way Vieline Ave. Tamire Rd.	AM Total 829 964 114 300	M Peak Tin 800	1514 M Peak Cour 308 405 44 120	Link# 248 13231	401 651	366 652	1 Peak Volume 344 406 44 122	946 Peak Volume 36 1 0 2	0.6248348 Actual AM Peak Co 0.1168831 0.0024691 0.0000000 0.0168668
otals ocation teGuire Rd. Screenline # 16 astbound 3H 53 Joint Ave. Joint Ave. Tarine Rd. otals	AM Total 829 964 114	M Peak Tin 800 800 700	1514 M Peak Cour 308 405 44	Link# 248 13231 10168	401 651 547	366 652 9672	4 Peak Volume 344 406 44	946 <sup>p</sup> eak Volume	0.6248349 Actual AM Peak Co 0.1168831 0.0024691 0.0000000
otals ocation IcGuire Rd. Screenline # 16 astbound ¥F 53 altrce Way Volline Ave. Yame Rd. Otals Vestbound	AM Total 829 964 114 300 2207	M Peak Tin 800 800 700 700	1514 M Peak Coul 308 405 44 120 877	Link# 248 13231 10168 13591	401 651 547 476	366 652 9672 9907	4 Peak Volume 344 406 44 122 916	946 Peak Volume 36 1 0 2 39	0.6248348 Actual AM Peak Co 0.1168831 0.0024691 0.000000 0.016666 0.0444697
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otals  occation  IcGuire Rd. Screenline # 16  astbound  H 53  elitice Way  Oteline Ave. Tarrie Rd. Otals  Vestbound  H 53  elitice Way  Oteline Ave. Tarrie Rd. Otals  octals  octal	AM Total 829 964 114 300 2207 1468 746 107 317 2038 AM Total 251 392 217 1282 2142 260	M Peak Tin 800 800 700 700 800 700 700 700	1514 M Peak Cou 308 405 44 120 553 321 553 321 118 113 118 118 1031 M Peak Cou 101 101 103 98 98 910 100	Link# 248 13231 10168 13591 248 13231 10168 13591 Link# 308 13173 506 12744 308	401 651 547 476 388 11002 9907 From Node From Node 411 478 650 99439 9439	366 652 9672 9907 4011 6511 547 11189 To Node 1148 479 551 10635 411	4 Peak Volume 344 406 444 122 916 521 145 226 1701 4 Peak Volume 699 107 134 495 805 805	946 *eak Volume 36 1 0 2 39 166 300 300 108 670 *eak Volume -32 -566 366 365 365 -32 -565 366 -533 -105	0.624834E ctual AM Peak Co 0.1168833 0.0024691 0.0024691 0.0024691 0.0024691 0.0024691 0.01768684 0.0444697 0.9346797 0.9157842 0.9346797 0.9157842 0.6498545 0.04468345 0.03435582 0.3475582 0.3475582
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otals  occation  IcGuire Rd. Screenline # 16  astbound  H 53  elitice Way  Oteline Ave. Tarrie Rd. Otals  Vestbound  H 53  elitice Way  Oteline Ave. Tarrie Rd. Otals  octals  octal	AM Total 829 964 114 300 2207 1468 746 107 317 2638 AM Total 251 252 217 1282 2142 2142 220 322 870	M Peak Tin 800 800 700 700 800 700 700 700	1514 M Peak Cou 405 44 120 877 553 321 10 118 101 101 103 98 548 910 100 119 87 403	Link# 248 13231 10168 13591 248 13231 10168 13591 Link# 308 13173 506 12744 308	401 651 547 476 388 11002 9907 From Node From Node 411 478 650 99439 9439	366 652 9672 9907 4011 6511 547 11189 To Node 1148 479 551 10635 411	4 Peak Volume 344 406 44 122 916 916 125 228 1701 4 Peak Volume 69 107 134 495 805 141 205 216 627	946 *ack Volume 36 1 0 2 39 158 300 106 670 *eak Volume *eak Volume *eak Volume 41 86 129 224	0.6248346 ctual AM Peak Co 0.116883 0.00204591 0.0000000 0.0166866 0.044691 0.2820976 0.944691 0.2820976 0.944691 0.945543 0.945543 0.9152543 0.9152543 0.0373465 0.0410000 0.7288890 1.427588312 0.5553312 0.55553312 0.5555312 0.5555312 0.5555312 0.5555312 0.5555312 0.5555
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otals ocation CGUIRE Rd. Screenline # 16 astbound H 53 elice Way oteline Ave. rame Rd. otals letsbound H 53 elice Way otals ocation Cati	AM Total 829 964 114 300 2207 1468 746 107 317 2638 AM Total 251 252 217 1282 2142 2142 220 322 870	M Peak Tin 800 800 700 700 700 700 700 700	1514 M Peak Cou 405 44 120 877 553 321 10 118 101 101 103 98 548 910 100 119 87 403	Link# 248 13231 10168 13591 248 13591 248 13591 248 13591 248 13591 21744 308 13173 508 12744	401 651 368 11002 9072 9907 From Node 411 411 413 550 9439 9439 9439 10635	306 652 9907 401 651 547 11189 To Node 1148 479 551 10635 411 478 478 9439 9439	4 Peak Volume 344 406 44 122 916 916 125 228 1701 4 Peak Volume 69 107 134 495 805 141 205 216 627	946 *ack Volume 1 0 2 300 1058 100 1058 105 105 105 105 105 105 105 105	0.624834 ctual AM Peak Co 0.116883 0.000000 0.016868 0.044691 0.2820976 0.944679 2.717948 0.945754 0.945754 0.915254 0.915254 0.915254 0.915254 0.037366 0.037366 0.037366 0.037366 0.048831 0.048831 0.915254 0.048831 0.04883
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12-10-12



#### AM PK HR Screenline Validation 2010 KMPO BaseDRAFT Final 12-10-12.ver

Calibrated AM Model 12-10-12 by KMPO

Poleline Ave.	547	700	249	13478	11141	553	160		
4th St.	277	700	120	743	753	721	105	-15	
Seltice Way 3rd St	1010 282	800	482	13899 10721	9004	11332 9930	453	-29	+0.060165975 0 137096774
Totals	2620	000	1188	10721	105	33.30	1012	-176	
Westbound									
Prairie Rd	416	700	153	410	481	480	275	122	0.797385621 0.096774194
Poleline Ave.	529 168	800 800	217 73	13478 743	553	11141 753	238	-18	0.096774194
4th St. Selfice Way	1019	800	425	13899	11332	9004	587	162	
3rd St	463	700	183	10721	9930	765	196	13	0.071038251
Totals	2595		1051				1351	300	0.285442436
				S					
Location Idaho St. Screenline # 19	AM Total	M Peak Tin	M Peak Cou	LINK#	From Node	10 Node	n Peak Volume	reak volume	Actual AM Peak Count
Eastbound								-	
Prairie Rd.	584	700	240	413	482	483	217	-23	-0.095833333
Poleline	651	700	304	13802	554	11283	116	-188	-0.618421053
Seltice Way	1542	700	661	689	682	709	646	-15	-0.022692890
4th St	142	700	58	747	724	725	35	-23	
Totals	2919	_	1263				1014	-249	-0.197149644
Westbound Prairie Rd	444	700	176	413	483	482	311	135	0.767045455
Poleline	577	700	228	13802	11283	554	184	-44	
Selfice Way	973	800	449	689	709	682	611	162	0.360801782
4th St.	24	700	15	747	725	724	7	-8	-0.533333333
Totals	2018		868				1113	245	0.282258065
Location	AM Total	MPeakTin	M Peak Cou	Link#	From Node	To Node	1 Peak Volume	Peak Volume	Actual AM Peak Count
Greensferrry Rd. Screenline # 20	1.000 1.000	and she fill	and water south	Sector II	- Come a round	THE PROPERTY			and the second second
Eastbound				1			-		
Prairie Rd.	644	700	252	421	486	487	221	-31	
Poleline Ave.	1030	700	482	519	558	559	287	-195	
16th 12th	151 136	700	73 57	587 628	606 635	607 636	144	71	
Mullan Ave	635	800	276	667	664	665	316	40	
Selbce Way	1070	800	430	13807	11285	728	461	31	0.072093023
Wyoming Ave	54	700	18	1246	1101	1154	1	-17	
Hayden Rd.	343	700	132	6243 8854	413	414 9029	102	-30 140	
SH 53 3rd St	716 240	800	95	10720	309	3029	428	-38	0.486111111 -0.400000000
Totals	5019	000	2103	TOTES			2098	-5	
Westbound									
Prairie Rd	443	800	177	421	487	486	297	120	
Poleline Ave.	471	800 700	202	519 587	559	558	121	-81	
16th 12th	131	700	52	628	636	606	24	42	-0.538461538
Mullan Ave	592	800	282	667	665	664	235	-47	
Seltice Way	860	800	427	13807	728	11285	408	-19	-0.044496487
Wyoming Ave	58	700	28	1246		1101	10	-18	-0.642857143
Hayden Rd. SH 53	330 1352	700 600	118 564	6243 8854	414 9029	413 309	185	67	0.567796610 0.131205674
3rd St.	228	800	88	10720	771	9929	92	4	
Totais	4616	0	2015			1141	2129		
		¢			š ;				
Location	AM Total	M Peak Tin	M Peak Cou	Link#	From Node	To Node	I Peak Volume	Peak Volume	Actual AM Peak Count
SH 41 Screenline # 21 Eastbound	-		-	-				-	
McCarney St N/O SR41	91	800	40	128	287	293	31	.9	-0.225
Poleine Rd.	662	700	254	13801	561	562	170	-84	
Mullan Ave	863	800	351	672	668	669	349	-2	-0.005698006
Seltice Way	2333	800	847	9318	9382	734	679	-168	-0.198347107
Lancaster	16	700	6 65	9346 9449	1151 9037	332	0	-64	-1.000000000 -0.984615385
Wyoming Seltice Way (Duplicate - new count)	2145	700	870	9449	9037	1094	679	-64	
Nagel Ln	231	800	102	13703	11238	324	186	84	
Prairie Rd.	629	700	232	10990	10057	488	225	-7	-0.030172414
Hayden Rd.	340	700	131	11241	10138	415	109	-22	0.167938931
Boekel Rd	87	700	33	11679	10335	310	98	. 65	1.969696970
Totals. Westbound	7558	S. Contraction	2931		0	(	2527	-404	-0.137836916
McCarney St N/O SR41	133	800	52	128	293	287	7	.45	-0.865384615
Poleline Rd.	542	700	261	13801	293	207	190	-45	
Mullan Ave	723	800	343	672	669	668	306	-37	-0 107871720
Selbce Way	912	800	443	9318	734	9382	165	-278	-0.627539503
Lancaster	21	600	8	9346	332	1151	2	+6	-0.750000000
Wyoming Seltice Way (Duplicate - new count)	125 797	800 800	55 341	9449 10417	1094	9037 731	413	-45	-0.818181818 0.211143695
	161	800	108	13703	324	11238	69	-39	-0.361111111
Nagel Ln		800	175	10990	488	10057	299	124	0.708571429
Nagel Ln Prairie Rd	438			44044	415	10138	188	68	0.566666667
Nagel Ln Prairie Rd Hayden Rd	330	700	120	11241					
Nagel In Prairie Rd Hayden Rd Boekel Rd	330 32	700 800	15	11679	301	10335	72	57	3.800000000
Nagel Ln Prairie Rd Hayden Rd	330							57	3.800000000
Nagel In Prairie Rd Hayden Rd Boekel Rd	330 32	800	15 1921	11679	301	10335	72 1721	57 -200	3.800000000
Nagel Ln Prairie Rd Hayden Rd Boekel Rd Totals	330 32 4214	800	15	11679	301	10335	72 1721	57 -200	3.800000000 -0.104112441
Nagel Ln Prairie Rd Boekel Rd Boekel Rd Totals Location Huetter Rd Screenline # 22 Eastbound	330 32 4214 AM Total	800 M Peak Tin	15 1921 M Peak Cour	11679 Link#	301 From Node	10335 To Node	72 1721 1 Peak Volume	57 -200 Peak Volume	3:800000000 -0.104112441 Actual AM Peak Count
Nagel Ln Prarie Rd Hayden Rd Boekel Rd Totals Location Huetter Rd Screenline # 22 Eastbound Wyoming Ave	330 32 4214 AM Total 3	800 M Peak Tin 700	15 1921 M Peak Cour 2	11679 Link# 250	301 From Node 1160	10335 To Node 367	72 1721 1 Peak Volume 0	57 -200 Peak Volume -2	3:800000000 -0.104112441 Actual AM Peak Count
Nagel Ln Prairie Rd Boekel Rd Boekel Rd Totals Location Huetter Rd Screenline # 22 Eastbound	330 32 4214 AM Total	800 M Peak Tin	15 1921 M Peak Cour	11679 Link#	301 From Node	10335 To Node	72 1721 1 Peak Volume 0 338	57 -200 Peak Volume -2 13	3.800000000 -0.104112441 kctual AM Peak Count -1 0.04

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#### AM PK HR Screenline Validation 2010 KMPO BaseDRAFT Final 12-10-12.ver

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Settice Way Mullan Ave	1334 128	800 700	534 56	13954 8873	793 9043	794 685	21	-534	-1.000000000 -0.625000000
Maplewood	118	800	47	10753	9766	9946	0	-33	-1.00000000
Boekel Ave	260	700	93	11233	10036	1096	122	29	0.311827957
Totals	3876		1522				890	+632	-0.415243101
Westbound		700		350	267	1400			
Wyoming Ave Hayden Rd.	664	700	244	250 323	367	1160 417	403	-1	0.651639344
Prane Rd.	773	800	327	432	410	494	509	182	0.556574924
Mullan Ave	43	800	23	8873	685	9043	16	-7	-0 304347826
Seltice Way	946	800	405	12732	9814	10738	509	104	0.256790123
Maplewood Boekel Ave	80	800 700	35 74	10753 11233	9946 1096	9766 10036	3	-32	-0 914285714 0 378378378
Totals	2687	700	1109	11200	1030	10050	1542	433	0.390441839
		Sec		S-summer	6	and an arrival			
Location	AM Total	M Peak Tir	M Peak Cou	Link#	From Node	To Node	1 Peak Volume	Peak Volume	Actual AM Peak Count
Ramsey Rd Screenline # 23		-		_	_			-	
Eastbound		000	10	0.5	0.15	1120		9	0.000000000
Ohio Match Rd Garwood Rd	29	800 600	13	65 76	245 251	1139	22	-70	0.692307692
Hwy 53	981	6.00	348	103	269	270	268	-80	-0.229885057
Lancaster Ave	148	700	51	207	336	337	181	130	2.549019608
Wyoming Ave	221	700	85	251	368	369	20	-65	-0.764705882
Miles Ave	52 769	800	22 289	276	387	388	10	-12	-0.545454545
Hayden Ave Honeysuckle Ave	226	700	289	332 13457	422	423	196	-93	-0.321799308 -0.495145631
Prairie Ave	2092	700	574	13926	498	11345	505	-51	-0.495145031
Appleway	782	800	350	8917	813	9097	204	-146	-0.417142857
Kathleen Ave	1629	700	692	9440	689	9087	406	-286	-0.413294798
Delton Ave	397	700	189	13849	613 569	11306 9100	58 432	-131	-0.693121693 0.576642336
Hanley Ave Ironwood Dr	1512	800	600	10300	569	9100	432	-60	+0 10000000
Boekel Rd	288	600	109	11559	9032	10275	136	27	0.247706422
Wilbur Ave Pinegrove	181	700	76	12891	524	10788	195	119	1.565789474
Totals	10290	5	3876	3			3256	-620	-0.159958720
Westbound Ohio Match Rd	55	700	22	65	1139	245	15	-7	-0.318181818
Garwood Rd	114	800	60	76	1140	243	24	-36	-0.510101010
Hwy 53	677	700	240	103	270	269	308	68	0 283333333
Lancaster Ave	75	700	36	207	337	336	218	182	5.055555556
Wyoming Ave	252	700	100	251 276	369	368	42	-58	-0.580000000
Miles Ave	134 780	600 800	48 303	276 332	388 423	387	32 292	-16	-0.333333333
Hayden Ave Honeysuckle Ave	194	800	80	13457	423	422	292	-11	0.050000000
Prairie Ave	1066	700	397	13926	9050	498	560	163	0.410579345
Appleway	808	800	347	8917	9097	813	205	-142	-0.409221902
Kathleen Ave	1133	800	495	9440	9087	689	218	-277	-0.559595960
Dalton Ave	360	700	169 264	13849 9492	9083	613 569	87	-82	-0.485207101 0.053030303
Hanley Ave Boekel Rd	141	600	204	11559	10275	9032	100	45	0.818181818
VVIIDULAVE PIDEOLOVE	197		74	12891	10788	524			
Wilbur Ave Pinegrove Ironwood Dr	197 503	700	74 235	12891 10300	10788 9734	524 857	119 520	45 285	0.608108108 1.212765957
Wilbur Ave Pinegrove Ironwood Dr Totals	197	700	74 235 2925			524	119	45	0.608108108 1.212765957
Ironwood Dr Totals	197 503 7051	700 800	235 2925	10300	9734	524 857	119 520 3102	45 285 177	0 608108108 1.212765957 0 060512821
Ironwood Dr Totals Location	197 503	700 800	235	10300	9734	524 857	119 520 3102	45 285 177	0 608108108 1.212765957 0 060512821
Ironwood Dr	197 503 7051	700 800	235 2925	10300	9734	524 857	119 520 3102	45 285 177	0 608108108 1.212765957 0 060512821
Ironwood Dr Totals Location US 95 Screenline #24 Eastbound Ohio Match Rd	197 503 7051 AM Total 31	700 800 M Peak Tir 800	235 2925 M Peak Cou 16	10300 Link#	9734 From Node 246	524 857 To Node 247	119 520 3102 1 Peak Volume 13	45 285 177	0.608108108 1.212765957 0.060512821 Actual AM Peak Coun -0.1875
Ironwood Dr Totals Location US 95 Screenline # 24 Eastbound Ohio Match Rd Garwood Rd	197 503 7051 AM Total 31 100	700 800 M Peak Tin 800 800	235 2925 M Peak Cour 16 54	10300 Link# 66 13780	9734 From Node 246 252	524 857 To Node 247 253	119 520 3102 1 Peak Volume 13 56	45 285 177 Peak Volume -3 2	0.608108108 1.212765957 0.060512821 Actual AM Peak Count -0.1875 0.037037037
Ironwood Dr Totals US 96 Screenline # 24 Eastbound Ohio Match Rd Garwood Rd Lancaster Ave	197 503 7051 AM Total 31 100 171	700 800 M Peak Tin 800 800 800	235 2925 M Peak Cour 16 54 69	10300 Link# 66 13780 13640	9734 From Node 246 252 338	524 857 To Node 247 253 339	119 520 3102 1 Peak Volume 13 56 87	45 285 177 Peak Volume -3 2 18	0.60810810 1.212765957 0.060512821 Actual AM Peak Coun -0.1875 0.037037037 0.260865565
ronwood Dr Totals US 95 Screenline #24 Eastbound Ohio Match Rd Garwood Rd Lancaster Ave Haydan Ave	197 503 7051 AM Total 31 100 171 616	700 800 M Peak Tir 800 800 800 800	235 2925 M Peak Cou 16 54 69 260	10300 Link# 66 13780 13640 12169	9734 From Node 246 252 338 10494	524 857 To Node 247 253 339 427	119 520 3102 4 Peak Volume 13 56 87 271	45 285 177 Peak Volume -3 2 18 11	0.60310810 1.212765957 0.060512821 vctual AM Peak Coun -0.1875 0.037037037 0.260869565 0.042307693
Ironwood Dr Totals Usg65 Screenline # 24 Eastbound Ohio Match Rd Garwood Rd Lancaster Ave Hayden Ave Hayden Ave	197 503 7051 AM Total 31 100 171 616 540	700 800 M Peak Tin 800 800 800	235 2925 M Peak Cou 16 54 69 260 230	10300 Link# 66 13780 13640	9734 From Node 246 252 338	524 857 To Node 247 253 339 427 11302	119 520 3102 1 Peak Volume 13 56 87	45 285 1777 Peak Volume -3 2 18 11 11 108	0.603108100 1.212765951 0.060512821 ktual AM Peak Coun -0.187t 0.037037031 0.260669562 0.042307682 0.46956521
Ironwood Dr Totals US 96 Screenline # 24 Eastbound Ohio Match Rd Garwood Rd Lancaster Ave Hardstan Ave Hardstan Ave Haneysuckle Ave Praine Ave	197 503 7051 AM Total 31 100 171 616 540 833 657	700 800 M Peak Tir 800 800 800 800 800 800 700	235 2925 M Péak Cou 16 54 69 260 230 359 307	10300 Link# 66 13780 13640 12169 13841 12159 12129	9734 From Node 246 252 338 10494 10493 10491 10488	524 857 To Node 247 253 339 427 11302 501 616	119 520 3102 4 Peak Volume 13 56 87 271 338 335 338 335 318	45 285 177 Peak Volume -3 2 18 11 108 -24 11	0.603108100 1.212765957 0.06051282' Actual AM Peak Coun 0.037037037 0.260680566 0.04295652316 0.068652316 0.035830615
ronwood Dr Totals Location JS 95 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd Lancaster Ave Hayden Ave Hayden Ave Hayden Ave Hayden Ave Hayden Ave Hayden Ave Daton Ave Satheen Ave	197 503 7051 AM Total 31 100 171 616 540 833 657 802	700 800 M Peak Tir 800 800 800 800 800 800 700	235 2925 M Peak Cour 16 54 69 260 230 359 307 354	10300 Link # 66 13780 13640 12169 13841 12159 12129 12129	9734 From Node 246 252 338 10494 10493 10494 10493 10487	524 857 To Node 247 253 339 427 11302 501 616 10803	119 520 3102 4 Peak Volume 13 56 87 271 338 335 318 342 342 342 342 342	45 285 177 Peak Volume -3 2 18 11 108 -24 11	0.068108100 1.212765951 0.060512821 .0.060512821 .0.0877037037 0.26085567 0.042807690 0.469565211 .0.068652366 0.035833061 0.035833061 0.103583061 0.1035
ronwood Dr Totals Location US 95 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd Lancaster Ave Honeysuckle Ave Praine Ave Praine Ave Sathleen Ave Sathleen Ave	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560	700 800 M Peak Tir 800 800 800 800 800 800 800 800 800 80	235 2925 M Peak Cou 16 54 69 260 230 359 307 359 307 354 270	10300 Link # 66 13780 13640 12169 13841 12159 12129 12129 12129 12129	9734 From Node 246 252 338 10494 10493 10491 10485 10485	524 857 To Node 247 253 339 427 11302 501 616 10803 762	119 520 3102 4 Peak Volume 13 56 87 271 338 335 335 338 335 338 332 333	45 285 177 Peak Volume 	0.068108100 1.212765957 0.06051282 0.06051282 0.06051282 0.01877 0.03703703 0.260665567 0.04230763 0.04250757 0.045565571 0.068652361 0.03530611 0.107244633 0.2333333
ronwood Dr Totals .costhion JS 95 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd .ancaster Ave Hayden Ave Hangen Ave Hangen Ave Hangen Ave Hangen Ave Sathleen Ave Sathleen Ave Sathleen Ave Sathleen Ave Sathleen Ave	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560 1004	700 800 M Peak Tir 800 800 800 800 800 800 800 80	235 2925 M Peak Cour 16 54 69 280 280 280 230 359 307 354 270 458	10300 Link# 66 13780 13640 12169 13841 12159 12129 12917 11795 874	9734 From Node 246 252 338 10494 10493 10494 10493 10494 10493 10495 831	524 857 To Node 247 253 339 427 11302 501 616 10803 762 832	119 520 3102 4 Peak Volume 13 56 87 271 338 335 318 339 333 339 333 339 339 339 339 339 33	45 285 177 Peak Volume 	0.068108100 1.21276595 0.06051282 0.06051282 0.03703703 0.2668556 0.04230763 0.4230763 0.0688528 0.03583061 0.10734463 0.03833051 0.10734463 0.2333333 0.04484716
ronwood Dr Totals Location 109 95 Screenline # 24 Eastbound Dhio Match Rd Sarwood Rd Lancaster Ave Honeysuckle Ave Praine Ave Datton Ave Cathleen Ave Velder Ave Papleway Ave Tonwood Brd	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560	700 800 M Peak Tir 800 800 800 800 800 800 800 800 800 80	235 2925 M Peak Cou 16 54 69 260 230 359 307 359 307 354 270	10300 Link # 66 13780 13640 12169 13841 12159 12129 12129 12129 12129	9734 From Node 246 252 338 10494 10493 10491 10485 10485	524 857 To Node 247 253 339 427 11302 501 616 10803 762	119 520 3102 4 Peak Volume 13 56 87 271 338 335 335 338 335 338 332 333	45 285 177 Peak Volume 	0.668108105 1.212765951 0.06051282' 0.06051282' 0.06051282' 0.037037031 0.260680560 0.04207690 0.46956521' 0.0685282' 0.35520615 0.107244633' 0.23533333' 0.2333333' 0.24148271' 0.064148271' 0.0645248.
rorwood Dr Totals Lotatis Listbound Dhio Match Rd Sarwood Rd ancaster Ave Hayden Ave Hayden Ave Hayden Ave Consysuché Ave Prairie Ave Sathiern Sat	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560 1004 608	700 800 M Peak Tir 800 800 800 800 800 800 800 800 800 80	235 2925 M Peak Coul 16 54 69 280 230 359 359 307 354 270 458 282	10300 Link# 66 13780 13640 12169 13841 12159 12129 12917 11795 874 13002	9734 From Node 246 252 338 10494 10493 10493 10493 10493 10495 831 831 868	524 857 To Node 247 253 339 427 11302 501 616 10803 762 8322 10867	119 520 3102 4 Peak Volume 13 56 87 2711 338 335 338 335 338 335 339 339 339 339 339 339 339 339 339	45 285 177 2eak Volume 	0.068108100 1.212765951 0.06051282' 0.06051282' 0.037037031 0.260869567 0.043207693 0.469865281 0.06885284 0.028330615 0.10744463 0.2333333 0.04148471( 0.08865246 0.03831034
rorwood Dr Totals Location US 95 Screenline #24 Eastbound Dhio Match Rd Sarwood Rd ancaster Ave Hayden Ave Hayden Ave Hayden Ave Datton Ave Satthern Ave Satth	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560 1004 606 606 282 282 749 918	700 800 M Peak Tir 800 800 800 800 800 800 800 800 800 80	235 2925 M Peak Cou 16 54 69 280 230 230 230 230 230 235 280 230 359 307 458 270 458 270 458 282 118 292 380	10300 Link# 66 13780 13640 12169 12841 12159 129 129 129 129 129 129 129 129 129 12	9734 From Node 246 252 338 10494 10493 10497 10485 831 10487 831 881 882 10495 881	524 857 To Node 247 253 339 427 11302 501 616 616 616 616 616 832 762 832 10667 898 9054 8985	119 520 3102 4 Peak Volume 13 56 87 211 338 335 335 338 332 333 439 439 439 439 439 439 439 439 439	45 285 1777 2eak Volume 3 2 188 111 108 244 111 108 244 111 108 25 5 3 5 4 5 5 4 5 5 4 5 5	0.068108100 1.212765951 0.06051282' Actual AM Peak Coun 0.037037031 0.262869567 0.042307632 0.46285521 0.06885281 0.06885283 0.2333333 0.2333333 0.2333333 0.241484710 0.068652465 0.07534241 0.06865465
roriwood Dr Totals 	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560 1004 606 282 749 918 241	700 800 M Peak Tir 800 800 800 800 800 800 800 800 800 80	235 2925 M Peak Coul 16 54 69 260 230 230 230 339 339 260 230 339 354 270 354 270 282 282 282 282 282 88	10300 Link # 66 13780 13640 12169 13841 12159 12129 12977 11795 874 13002 970 12132 10649 10666	9734 From Node 246 2522 338 10494 10493 10491 10485 10497 10485 831 881 881 881 881 882	524 857 To Node 247 253 339 427 11302 501 616 10803 7622 832 10867 838 832 10867 8388 9054 9895	118 5220 3102 118 138 56 87 271 338 335 335 335 3439 307 101 411 300 87 8 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	45 285 1777 2eak Volume 	0.068108100 1.21276595 0.06051282 0.06051282 0.03703703 0.2606556 0.04230769 0.04230769 0.04230769 0.04230769 0.04585246 0.03593054 0.03593054 0.03593054 0.035931034 0.04885246 0.035931034 0.045931034 0.045931034 0.01583583
Tortwood Dr Totals Josation JS 95 Screenline # 24 Eastbound Dhio Match Rd Jarwood Rd	197 503 7051 AM Total 31 100 1771 616 540 833 657 802 560 1004 608 282 749 918 241 331	700 800 800 800 800 800 800 800 800 800	235 2925 M Peak Cou 16 54 69 280 230 230 230 230 230 235 280 230 359 307 458 270 458 270 458 282 118 292 380	10300 Link # 66 13780 13640 12169 13841 12159 12129 12970 12132 10649 108649 10863	9734 From Node 246 242 243 244 10493 10493 10493 10493 10493 10495 831 10495 831 10495 832 10495 832 10495 832 10495 832	524 857 To Node 247 253 339 427 11302 501 616 10803 762 832 10867 898 8985 9953 3992	118 5202 3102 4 Peak Volume 13 565 87 277 335 318 335 335 335 330 300 101 101 338 330 300 101 101 335 330 300 101 103 302 333 300 302 335 335 335 335 335 335 335 335 335 33	45 285 1777 Feak Volume 	0.668108100 1.21276595 0.06051282 0.06051282 0.06051282 0.06051282 0.01877 0.03703 0.260685568 0.04280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.42877769 0.4287769 0.4287769 0.4287769 0.4287769 0.42
ronwood Dr Totals 	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560 1004 606 282 749 918 241 331 159	700 800 M Peak Tir 800 800 800 800 800 800 800 800 800 80	235 2925 M Peak Coul 16 54 69 280 230 230 339 307 354 282 285 285 285 285 285 285 285 285 285	10300 Link # 66 13780 13640 12169 13841 12159 12129 12977 11795 874 13002 970 12132 10649 10666	9734 From Node 246 2522 338 10494 10493 10491 10485 10497 10485 831 881 881 881 881 882	524 857 To Node 247 253 339 427 11302 501 616 10803 7622 832 10867 838 832 10867 8388 9054 9895	118 5220 3102 4 Peak Volume 113 56 87 271 335 318 302 3318 302 3318 302 301 101 101 100 87 58 58 58 58 58 58 58 58 58 58 58 58 58	45 285 1777 2eak Volume 	0.063108100 1.21276595 0.06051282' Ctual AM Peak Coun 0.03703703' 0.20685566 0.42307692 0.42307692 0.42307692 0.42307692 0.42307692 0.4230783 0.4483716 0.107344633 0.23333333 0.44484716 0.08865248 0.23333344 0.40753424 0.4075425 0.40755555 0.407555555 0.40755555555555555555555555555555555555
Ironwood Dr Totals Location US 95 Screenline # 24 Eastbound Ohio Match Rd Garwood Rd Lancaster Ave Honeysuckle Ave Praine Ave Datton Ave Kathleen Ave Wahut St Hanley Ave US 95 Tby Spokane River Old US 95 nlo SH53 Wiles Ave Wyoming Ave Totals	197 503 7051 AM Total 31 100 1771 616 540 833 657 802 560 1004 608 282 749 918 241 331	700 800 800 800 800 800 800 800 800 800	235 2925 M Peak Coul 16 54 69 260 230 230 230 339 339 260 230 339 354 270 354 270 282 282 282 282 282 88	10300 Link # 66 13780 13640 12169 13841 12159 12129 12970 12132 10649 108649 10863	9734 From Node 246 242 243 244 10493 10493 10493 10493 10493 10495 831 10495 831 10495 832 10495 832 10495 832 10495 832	524 857 To Node 247 253 339 427 11302 501 616 10803 762 832 10867 898 8985 9953 3992	118 5202 3102 4 Peak Volume 13 565 87 277 335 318 335 335 335 330 300 101 101 338 330 300 101 101 335 330 300 101 103 302 333 300 302 335 335 335 335 335 335 335 335 335 33	45 285 1777 Feak Volume 	0.063108100 1.21276595 0.06051282' Ctual AM Peak Coun 0.03703703' 0.20685566 0.42307692 0.42307692 0.42307692 0.42307692 0.42307692 0.4230783 0.4483716 0.107344633 0.23333333 0.44484716 0.08865248 0.23333344 0.40753424 0.4075425 0.40755555 0.407555555 0.40755555555555555555555555555555555555
ronwood Dr Totals Location 193 95 Screenline # 24 Eastbound Ohio Match Rd Garwood Rd Lancaster Ave Hargdan Ave Harley Ave Daton Ave Kathleen Ave Harley Ave Daton Ave Harley Harley Har	197 503 7051 AM Total 31 100 1771 616 540 833 657 802 560 1004 606 282 749 918 241 331 159 8802 101	700 800 800 800 800 800 800 800	235 2925 M Peak Coul 16 54 68 280 230 230 2359 202 270 455 202 270 270 270 270 270 270 270 288 282 282 380 88 88 145 71 3731	10300 Link# 66 13780 13640 12169 12169 12159 12129 12129 12129 12129 12122 970 12132 10649 10666 10833 10838	9784 From Node 246 252 338 10493 10493 10493 10493 10495 8311 868 831 868 831 869 831 9822 9982 9982 9983 9983	524 857 70 Node 247 253 339 427 113002 501 616 616 616 616 616 832 832 10667 838 8395 3905 392 3373 373 246	118 5202 3102 4 Peak Voluma 13 555 87 277 338 335 335 335 335 335 335 335 335 335	45 2855 1777 26ak Volume 28 18 11 108 18 11 108 63 3 63 3 19 255 15 119 9 252 222 222 222 222 222 222 222	0.668108105 1.212765957 0.06051282' 0.06051282' 0.06051282' 0.037037037 0.037037037 0.037037037 0.04230769' 0.04230769' 0.042865241 0.03685248 0.03530615 0.03784244 0.07544243 0.01865248 0.0186548 0.018
ronwood Dr Totals .coataion JS 96 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd .arcaster Ave Harydan Ave Honeysuckle Ave Harydan Ave Honeysuckle Ave Harydan Ave Sathteen Ave Sathteen Ave Sathteen Ave Valder Ave Sathteen	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560 1004 606 6282 749 918 241 331 159 8602 802	700 800 M Peak Tir 800 800 800 800 800 800 800 80	235 2926 M Peak Cou 16 54 69 280 280 280 280 280 369 369 369 369 364 270 369 364 270 364 270 364 270 364 270 364 270 364 270 364 270 282 282 282 282 282 282 282 282 282 28	10300 Link # 66 13780 13640 12169 13841 12159 12129 12129 12970 12132 10649 10665 10833 10838 66 13780	9734 From Node 246 252 3383 10494 10493 10493 10493 10495 801 808 802 10485 8311 868 802 10485 8311 808 802 10495 99823 99823 99833 99853 99853	524 857 To Node 247 253 339 427 11302 501 616 10803 7622 832 10667 838 9054 9903 3922 373 3922 373	118 5202 3102 4 Peak Volume 113 566 87 271 335 318 335 335 338 332 333 433 433 433 433 433 433 433 433	45 2855 1777 1777 2646 Volume 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.063108100 1.212765951 0.06051282' Actual AM Peak Coun 0.037037031 0.262869567 0.042307632 0.42307632 0.42307632 0.42307632 0.42307632 0.42307833 0.233333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.2333333 0.233333 0.233333 0.2333333 0.23333 0.233333 0.233333 0.233333 0.233333 0.23333 0.23333 0.233333 0.23333 0.
ronwood Dr Totals Location US 96 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd Lancaster Ave Haryden Ave Haryden Ave Haryden Ave Haryden Ave Daton Ave Sattboen Ave Neider Ave Daton Ave Sattboen Ave Neider Ave Appleway Ave Tornwood Bivd Nathar St Hanley Ave Tornwood Bivd Nathor St Hanley Ave Methound Onio Match Rd Sarwood Rd	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560 1004 606 282 749 918 241 331 159 8802 	700 800 M Peak Tir 800 800 800 800 800 800 800 80	235 2925 M Peak Cour 16 54 68 280 280 280 280 280 280 280 280 280 28	10300 Link # 66 13780 13640 12169 12159 12129 12129 12977 11795 874 13002 970 121322 970 121322 970 12132 970 121323 970 12132 10649 10656 10333 10838 10838 10838	9734 From Node 246 252 252 338 10444 10403 10491 10455 809 10495 809 809 809 809 809 809 809 809 809 809	524 857 To Node 70	119 19 19 19 19 19 19 19 19 19 19 19 19	45 28552 1777 264K Volume 2 3 2 3 2 3 2 3 4 111 108 108 111 108 108 111 108 603 2 55 415 119 9 603 119 2 55 415 119 2 55 2 222 2 222 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 205	0.068108100 1.212765951 0.06051282' 0.06051282' 0.06051282' 0.037037031 0.260869560 0.042807690 0.04295852361 0.035930611 0.05852361 0.035930611 0.03593061 0.03593061 0.03593061 0.03593061 0.03593061 0.03593061 0.03593061 0.03593061 0.03593061 0.0359301472 0.05950147 0.0595
romwood Dr Totals Cotation US 95 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd Ancaster Ave Hayden Ave Hayden Ave Consysuche Ave Hayden Ave Consysuche Ave Consysuche Ave Consysuche Ave Consysuche Ave Consysuche Ave Consysuche Ave Consysuche Ave Consysucher Ave Constant St Hanley Ave Sy St Dy Spokane River Old UIS 95 nio SH53 Wies Ave Mycoming Ave Totals <b>Kesbound</b> Cinio Match Rd Sarwood Rd Andach Rd Sarwood Rd Andach Rd	197 503 7051 AM Total 31 100 171 616 540 833 657 802 550 1004 606 282 749 918 241 331 159 8602 802 101 355 125 125 914	700 800 800 M Peak Tir 800 800 800 800 800 800 800 80	235 2926 M Peak Cou 16 54 69 260 260 260 260 260 260 260 260 260 260	10300 Link # 66 13780 13640 12169 13841 12159 12129 12129 12129 12129 12129 12129 12129 12129 12139 10849 10843 10838 66 13780 13640 13640	9734 From Node 246 252 338 10434 10431 10438 10445 10445 831 10445 831 10445 831 10445 831 10445 831 10445 832 10445 831 1045 831 1045 831 1045 831 1045 831 1045 831 1045 831 1045 831 1045 831 1045 831 1045 832 1045 835 837 1045 1045 1	524 857 To Node 247 253 339 427 11302 501 616 10803 7622 832 9054 8885 9054 98903 3992 373 3992 373	118 5202 3102 4 Peak Volume 13 555 87 271 335 316 335 335 335 330 300 300 300 300 300 300	45 2855 3255 3255 325 32 32 32 32 38 32 32 38 32 35 35 35 35 35 35 35 35 35 35 35 35 35	0.068108100 1.212765957 0.06051282' xctual AM Peak Coun 4.01877 0.037037037 0.260869526 0.042207682 0.042207682 0.0685526 0.0585261 0.07344637 0.0734463 0.2333333 0.23324 0.0685526 0.0754425 0.0595214 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0355555 0.0595247 0.059547 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.0595247 0.059547 0.05
Ironwood Dr Totals Location US 96 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd Lancaster Ave Hardken Ave Honeysuckle Ave Honeysuckle Ave Paine Ave Dation Ave Kathleen Ave Neider Ave Appleway Ave tonwood Bird Wahut St Hanley Ave US 95 St by Splotane River Old US 95 An O SH53 Wiles Ave Westbound Dhio Match Rd Sarwood Rd Sar	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560 1004 606 282 749 918 241 331 159 8802 	700 800 M Peak Tir 800 800 800 800 800 800 800 80	235 2925 M Peak Cou 16 54 69 260 2359 307 354 260 2359 307 354 270 282 282 282 282 282 282 283 283 283 283	10300 Link# 66 13780 13780 12169 12197 13841 12017 1795 874 13002 970 10849 10849 10849 10833 10833 10833 10833	9734 From Node 246 252 252 338 10444 10403 10491 10455 809 10495 809 809 809 809 809 809 809 809 809 809	524 857 To Node 70	119 19 19 19 19 19 19 19 19 19 19 19 19	45 28552 1777 264K Volume 2 3 2 3 2 3 2 3 4 111 108 108 111 108 108 111 108 603 2 55 415 119 9 603 119 2 55 415 119 2 55 2 222 2 222 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 2 205 205	0.663108100 1.21276595 0.08051282 Ctual AM Peak Coun 0.0370370 0.20387057 0.0370370 0.203865561 0.04230769 0.4230769 0.4230769 0.4230769 0.4230781 0.06885241 0.0333031 0.04484711 0.08865241 0.0753424 0.173340341 0.40753424 0.40753424 0.40753424 0.40753424 0.5950147 0.5950147 0.23524111 4.65909090 0.30835551 0.03835551 0.0385551 0.03950147 0.23524111 0.03835551 0.0385551 0.0385551 0.03950147 0.0385551 0.03950147 0.0385551 0.03950147 0.0385551 0.03950147 0.0385551 0.03950147 0.0385551 0.03855551 0.03855551 0.03855555 0.03855555 0.03855555 0.03855555 0.03855555 0.03855555 0.03855555 0.03855555 0.03855555 0.03855555 0.03855555 0.03855555 0.038555555 0.03855555 0.038555555 0.038555555 0.038555555 0.03855555 0.038555555 0.038555555 0.038555555 0.038555555 0.03855555555555555555555555555555555555
romwood Dr Totals Cotation US 95 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd Ancaster Ave Hayden Ave Hayden Ave Oneysuckle Ave Prairis Ave Dation Ave Satheen Ave	197 503 7051 AM Total 31 100 171 616 540 833 657 802 560 1004 606 282 749 918 241 331 159 8802 	700 800 M Peak Tir 800 800 800 800 800 800 800 80	235 2926 M Peak Cou 16 54 69 280 230 359 307 354 359 200 230 359 359 207 354 458 282 282 282 282 283 88 145 153 445 153 445 153 288	10300 Link # 66 13780 13640 12169 13641 12159 12017 11795 874 13002 12129 12129 12129 12129 12129 12129 12129 12129 10649 10656 10833 10838 66 613780 12169 13840 12169 13840 12169 13840 12169 13840 12169 13840 12169 13840 12169 1200 1200 1200 1200 1200 1200 1200 120	9734 From Node 246 252 338 10494 10493 10493 10495 8029 10495 889 889 889 889 889 889 889 889 889 8	524 857 To Node 247 253 339 427 11302 411 616 832 10667 838 9054 9903 392 397 373 392 373 246 252 338 810494 10494	119 5202 3102 4 Peak Volume 3102 3102 3102 3103 300 300 300 300 300 300 300 300 30	45 28552 1777 262K Volume 3 2 3 2 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3	0.668108100 1.21276595 0.06051282 0.06051282 0.06051282 0.06051282 0.06051282 0.01877 0.03703 0.26068556 0.04280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4280769 0.4283761 0.0734424 0.10734424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.40753424 0.4085546 0.05955147 0.5955147 0.255294111 4.656069500 0.30263565 0.020000000 0.70485111 1.4656166 0.020000000 0.70485111 1.4656166 0.020000000 0.70485111 1.4656166 0.020000000 0.70485111 1.4656166 0.020000000 0.70485111 1.4656166 0.020000000 0.70485111 1.4656166 0.020000000 0.70485111 1.465616 0.020000000 0.70485111 1.465616 0.020000000 0.70485111 1.465616 0.020000000 0.70485111 1.465616 0.020000000 0.70485111 1.465616 0.020000000 0.7048511 1.465616 0.020000000 0.70485111 1.465616 0.0200000000 0.70485111 1.465616 0.0200000000 0.7048511 1.465616 0.020000000000 0.7048511 1.465616 0.0200000000 0.7048511 1.465616 0.02000000000 0.7048511 1.465616 0.02000000000 0.7048511 1.465616 0.0200000000 0.7048511 1.465616 0.02000000000 0.7048511 1.465616 0.0200000000 0.7048511 1.465616 0.0200000000 0.7048511 1.465616 0.0200000000 0.7048511 1.465616 0.0200000000 0.7048511 1.465616 0.0200000000 0.7048511 1.465616 0.0200000000 0.7048511 1.465616 0.02000000000000 0.7048511 1.465616 0.020000000000000000000000000000000000
romwood Dr Totals Location Use 39 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd Lancaster Ave Harydan Ave Harydan Ave Valder Ave Daton Ave Kathleen Ave Daton Ave Kathleen Ave More SH3 Dis Stat State State Cathleen Ave More SH3 State State Sarwood Rd Sarwood Rd Sar	197 503 7051 AM Total 31 100 1171 616 540 833 657 802 560 1004 606 282 749 918 241 331 159 8802 918 241 331 159 8802 911 355 125 125 125 125 125 125 125 125 125 1	700 800 M Peak Tir 800 800 800 800 800 800 800 80	235 2925 M Poak Coul 16 54 69 280 230 359 307 354 270 270 270 270 270 270 270 270 270 270	10300 Link # 66 13780 12469 12469 12469 12469 12469 12469 12469 12469 12469 12469 12469 12469 12469 12469 12469 10849 10849 10849 13840 12459 12459	9784 From Node 246 252 338 10493 10493 10493 10495 831 10485 831 10485 832 10495 831 9822 9982 9982 9983 9983 9983 9983 9983	524 857 To Node 247 253 339 427 11302 501 616 10603 7622 832 9054 9954 9953 3825 9933 3825 9933 3825 9933 3825 9953 3825 9953 9953 3825 9954 9954 9954 9954 9954 9954 9955 9953 9953	119 5202 3102 4 Peak Volume 3102 3102 3102 3103 300 300 300 300 300 300 300 300 30	45 2855 1777 2636 Volume 3 2 3 18 111 108 6 3 3 4 111 3 8 6 3 3 4 119 - 255 - 119 - 6 0 0 - 119 - 6 0 - 6 6 - 6 6 6 6 6 6 6 6 6 6 6 6 6	0.668108100 1.21276595 0.06051282 0.06051282 0.06051282 0.06051282 0.06051282 0.01877 0.03703 0.260685586 0.04280765 0.04280765 0.0428076 0.05895246 0.05895246 0.0734463 0.0734463 0.0734463 0.0734463 0.0734463 0.0118865248 0.0118865248 0.0118865248 0.0118865248 0.0118865248 0.05950147 0.0595
ronwood Dr Totals Location US 95 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd Earcaster Ave Hayden Ave Hayden Ave Hayden Ave Hayden Ave Hayden Ave Hayden Ave Hayden Ave Hayden Ave Nation State Sathoen Ave Nation State Sathoen Ave Nation State	197 503 7051 AM Total 31 100 1771 616 540 803 802 560 1004 606 282 749 918 241 331 159 8002 241 355 125 125 125 125 125 125 125 125 125 1	700 800 800 800 800 800 800 800 800 800	235 2925 2926 10 54 69 280 280 280 280 280 389 307 354 270 354 282 282 282 282 282 282 282 282 282 28	10300 Link # 66 13780 13640 12169 12169 12179 12179 12179 12179 12179 12179 12179 12179 12179 12179 12179 10649 106600 106600 106600000000	9784 9784 From Node 246 252 338 10494 10493 10493 10495 831 10495 831 868 8922 10495 881 8982 10495 881 8982 10495 8983 9973 9973 9973 9973 9973 9975 9	524 857 To Node 247 253 339 427 11302 501 616 10803 762 838 9054 9903 3592 373 3592 373 246 255 9903 3592 373 3592 373 3592 373 3592 375 359 359 359 3592 375 359 359 359 359 3592 359 3592 359 3592 359 3592 359 3592 359 3592 359 3592 359 3592 359 3592 359 3592 359 3592 359 3592 359 3592 359	119 5202 3102 4 Peak Volume 8 8 7 271 335 318 335 335 335 335 3439 302 302 302 302 302 302 302 302 302 302	45 2855 1777 1777 264C Volume 111 108 8 8 3 6 3 3 5 5 119 25 119 25 119 25 25 119 25 25 35 6 35 25 25 25 25 25 25 25 25 25 25 25 25 25	0.063108100 1.212765951 0.06051282 0.06051282 0.06051282 0.037037031 0.26885567 0.042307632 0.402307632 0.402307632 0.402307632 0.402307632 0.41284716 0.03885246 0.0358514 0.0378448444 0.41385043 0.05850147 0.0385555 0.02000000 0.070468111 0.3267410 0.335642 0.04386148 0.435642 0.04386148 0.435642 0.0435642 0.0435642 0.0435642 0.0435642 0.0435644 0.04456466666666666666666666666666666666
ronwood Dr Totals Location Los 99 Screenline # 24 Eastbound Ohio Match Rd Sarwood Rd .ancastor Ave Harddan Ave Harddan Ave Harddan Ave Naldar Ave Dalton Ave Kathleen Ave Naldar Ave Dalton Ave Kathleen Ave Naldar Ave Dalton Ave Kathleen Ave Naldar Ave Dalton Sta Hanley Ave Totals Weiss Ave Mort Sta Hanley Ave Totals Weiss Ave Mort Rd Sarwood Rd .ancaster Ave Hardan Ave Dalton Ave Cathleen Ave Daton Ave Cathleen Ave Daton Ave Cathleen Ave Daton Ave Cathleen Ave Daton Ave Daton Ave Daton Ave Daton Ave Daton Ave Daton Ave Daton Ave Daton Ave Daton Ave Sathleen Ave Daton Ave Sathleen Ave Sathleen Ave Sathleen Ave Sathleen Ave Sathleen Ave Sathleen Ave Sathleen Ave	197 503 7051 AM Total 31 100 1771 616 540 833 657 802 560 1004 606 282 749 918 241 331 159 282 749 918 241 331 159 282 749 918 241 331 159 282 749 918 241 335 557 738 486 287 373 438 438 438 438 438 438 438 438 438 43	700 800 M Peak Tir 800 800 800 800 800 800 800 800 800 80	235 2925 M Poak Cour 16 54 69 280 2359 260 2359 260 2359 260 2359 260 2359 260 2359 260 2359 260 270 455 262 116 54 270 282 386 282 44 45 153 44 45 153 44 45 288 202 288 202 59 59 59 50 50 50 50 50 50 50 50 50 50 50 50 50	10300 Link # 66 13780 13640 12169 12169 12129 12129 12129 12129 12129 12129 12129 12129 12129 12129 12129 12129 12129 10849 66 66 13780 10838 66 66 13780 13840 12159 12129 12132 12139 12139 12132 12132 12139 12	9784 From Node 246 2452 252 338 10493 10493 10493 10493 10495 8311 9821 99823 9983 9975	524 857 To Node 247 253 339 427 11302 501 616 10803 7622 832 10867 9903 3392 373 392 373 392 373 392 373 392 373 392 373 392 392 392 392 392 392 392 392 392 39	119 5202 3102 4 Peak Volume 7 7 333 307 302 333 307 101 101 300 302 333 307 101 101 300 302 333 307 101 101 101 300 302 303 7 7 7 117 249 255 255 255 255	45 2855 1777 263K Volume 32 32 32 32 38 33 419 38 63 34 4111 38 63 33 419 255 419 38 63 34 419 35 419 38 63 36 5 20 55 20 20 55 20 20 55 20 5 20 5 20 5 20 5 20 5 20 5 20 5 20 5 20 5 20 5 20 5 20 5 5 5 5	0.068108100 1.212765957 0.06051282' 0.06051282' 0.06051282' 0.06051282' 0.073703 0.26066546 0.02507687 0.42507687 0.42507687 0.42507687 0.42587687 0.06852487 0.073446471 0.06852487 0.073446471 0.07344647 0.07344647 0.07344647 0.07344647 0.0734465748 0.07344647 0.0734465748 0.07344647 0.07344647 0.0734465748 0.0734465748 0.0734465748 0.0734247 0.0734247 0.0734247 0.0550147 0.0550147 0.05505147 0.05505147 0.05505147 0.05505147 0.05650147 0.0565147 0.05650147 0.0565147 0.0565147 0.0565147 0.0565147 0.0565147 0.0565147 0.0565147 0.0565147 0.0565147 0.0565147 0.0565147 0.0565147 0.0565147 0.0565147 0.0555147 0.05
ronwood Dr             Totals             Location             JS 96 Screenline # 24             Eastbound             Dhio Match Rd             Samood Rd             Lancaster Ave             Hayden Ave             Honeysuckle Ave             Parter Ave             Hayden Ave             Honeysuckle Ave             Parter Ave             Ave             Zathleen Ave             Naider Ave             Ave             Zathleen Ave             Naider Ave             Ave             Samood BM             Zathleen Ave             Naider Ave             Ave             Young Ave             Tortwood BM             Wahut St             Hanley Ave             St             St	197 503 7051 AM Total 31 100 171 616 540 833 657 802 550 1004 606 606 282 2550 1004 606 608 282 749 918 241 331 159 8602 918 241 335 125 125 125 125 125 125 125 125 125 12	700 800 800 800 800 800 800 800 800 800	235 2926 M Peak Cou 16 54 69 280 280 280 280 280 280 280 280 282 282	10300 Link # 66 13780 13640 12169 12169 12159 12159 12159 12159 12159 12159 12159 12159 12159 12159 12159 12159 12159 10838 10838 66 13780 13840 13840 12459	9784 9784 From Node 246 252 338 10494 10493 10493 10495 831 10495 831 10495 831 9822 10495 9821 9852 99882 9982 9982 9982 9982 9982 9982 9982 9982 9982 9982	524 857 To Node 247 253 339 427 11302 501 616 10603 37622 332 10667 8983 9054 9903 3922 373 3922 373 246 2552 10493 10495 10495 10495 10	118 5202 3102 4 Peak Volume 113 566 87 315 335 335 335 335 335 332 333 433 433 433 433 433 433 433 433	45 2855 1777 1777 2646 Volume 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.063108100 1.212765957 0.06051282 0.06051282 0.06051282 0.08051282 0.08051282 0.08051282 0.080526 0.080526 0.020865246 0.02532061 0.07534243 0.025557 0.0753424 0.0753424 0.0753424 0.0753424 0.0753424 0.0753424 0.0753424 0.0753424 0.0753424 0.0753424 0.0753424 0.05555147 0.055550147 0.055550147 0.055550147 0.03454454 0.03456426 0.03456426 0.0345644 0.0345644 0.0345644 0.03456444 0.034564448 0.0345644488 0.0345644488 0.0345644488 0.0345644488 0.0345644488 0.0345644488 0.0345644488 0.0345644488 0.0345644488 0.0345644488 0.0345644488 0.0345644488 0.0345644488 0.0345644888 0.03456488 0.034564888 0.034564888 0.034564888 0.034564888 0.0345648888 0.0345648888 0.0345648888 0.0345648888 0.03456488888 0.03456488888 0.0345648888 0.0345648888 0.03456488888 0.03456488888 0.03456488888 0.03456488888 0.034564888888 0.034564888888 0.0345648888888 0.0345648888888888888888 0.03456488888888888888888888888888888888888
Ironwood Dr Totals Location US 96 Screenline # 24 Eastbound Ohio Match Rd Garwood Rd Lancaster Ave Hayden Ave Honeysuckle Ave Prame Ave Daton Ave Kathleen Ave Neider Ave Appleway Ave Ironwood BNd Wahut St Hanloy Ave Uorwood BNd Wahut St Hanloy Ave Bol US 95 no SH53 Miles Ave Wyonning Ave Totals Garwood Rd Lancaster Ave Hayden Ave Prane Ave Daton Ave Kathleen Ave Noider Ave Spileway Ave Ironwood BNd Weshbourd Daton Ave Spileway Ave Ironwood BNd Weshbourd Rate Ave Noider Ave Spileway Ave Ironwood BNd Weshbut St	197 503 7051 AM Total 31 100 1771 616 540 833 657 802 560 1004 606 282 749 918 241 331 159 8002 749 918 241 331 159 8802 749 918 241 331 159 8802 749 8802 887 355 736 887 887 887 887 887 887 887 887 887 88	700 800 800 800 800 800 800 800 800 800	235 2925 M Peak Cou 16 54 69 280 280 280 280 280 280 280 280 282 282	10300 Link # 66 13780 13640 12169 12159 12129 970 12132 970 12132 970 12132 970 1232 970 1232 970 1232 970 1232 970 12129 874 13002 970 970	9784 From Node 246 2452 252 338 10444 10443 10443 10445 10445 858 859 859 859 9982 9983 9985 99985 99985 99985 99985 99985 99985 9995 999	524 857 To Node 247 253 339 427 11302 501 616803 7622 832 10667 8983 9054 9903 3923 373 3923 373 3922 3383 10491 10485 10494 10485 10487 10485 831 10485 888	119 5202 3102 4 Peak Voluma 555 330 3102 333 307 307 302 333 307 307 305 333 307 307 305 333 307 307 305 333 307 307 305 307 305 307 305 307 305 305 307 305 305 305 305 305 305 305 305 305 305	45 2855 3255 3255 3257 325 32 32 32 32 32 32 32 32 32 32 32 32 32	0.068108105 1.212765957 0.060512821 0.060512821 0.060512821 0.060512821 0.060512821 0.037037037 0.020685240 0.04207692 0.04292807692 0.0469585217 0.0685236 0.035800615 0.03734104 0.06852482 0.0173416437 0.06852482 0.017341643 0.018652482 0.018652482 0.018652482 0.018652482 0.018652482 0.058501474 0.0285241 0.06852482 0.058501474 0.0285241 0.03850484 0.07348511 0.028441 0.028241 0.0282541 0.0282541 0.0282541 0.028254 0.01873267 0.03325241 0.028451 0.028254 0.0232541 0.028254 0.0232541 0.028254 0.023254 0.023254 0.02855 0.0000000 0.0744881 0.028254 0.023254 0.023254 0.023254 0.023254 0.023254 0.023254 0.02325 0.02325 0.02325 0.02325 0.02325 0.02325 0.0232 0.04338 0.04025 0.0232 0.04338 0.04025 0.0545 0.02 0.0452 0.05 0.023 0.045 0
Ironwood Dr Totals Location US 95 Screenline # 24 Eastbound Ohio Match Rd Garwood Rd Lancaster Ave Hayden Ave Hayden Ave Hayden Ave Hayden Ave Dation Ave Kathleen Ave Dation Ave Kathleen Ave Neider Ave Appleway Ave Ironwood Bkd Wahut St Hanley Ave US 95 St y Spoteme River Old US 95 n/o SH53 Miles Ave Worning Ave	197 503 7051 AM Total 31 100 171 616 540 833 657 802 550 1004 606 606 282 2550 1004 606 608 282 749 918 241 331 159 8602 918 241 335 125 125 125 125 125 125 125 125 125 12	700 800 800 800 800 800 800 800 800 800	235 2926 M Peak Cou 16 54 69 280 280 280 280 280 280 280 280 282 282	10300 Link # 66 13780 13640 12169 12169 12159 12159 12159 12159 12159 12159 12159 12159 12159 12159 12159 12159 12159 10838 10838 66 13780 13840 13840 12459	9784 9784 From Node 246 252 338 10494 10493 10493 10495 831 10495 831 10495 831 9822 10495 9821 9852 99882 9982 9982 9982 9982 9982 9982 9982 9982 9982 9982	524 857 To Node 247 253 339 427 11302 501 616 10603 37622 332 10667 8983 9054 9903 3922 373 3922 373 246 2552 10493 10495 10495 10495 10	118 5202 3102 4 Peak Volume 113 566 87 315 335 335 335 335 335 332 333 433 433 433 433 433 433 433 433	45 2855 1777 1777 2646 Volume 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.068108108 1.212765957 0.060512821 kctual AM Peak Count -0.1875 0.037037037 0.26665955 0.042307692 0.469565247 0.068652482 0.035830619 0.133333333 0.041484716 0.088552482 -0.123310346 0.088552482 -0.123310345 0.041554247

6 of 8 KMPO Total Screenlines



#### AM PK HR Screenline Validation 2010 KMPO BaseDRAFT Final 12-10-12.ver

Calibrated AM Model 12-10-12 by KMPO

Miles Ave	264	700	101	10833	392	9982	62	-39	-0 386138614
Wyoming Ave	231	700	92	10838	373	9983	123	31	0.336956522
Totals	9288	3	3846	-		-	5128	1282	0.333333333
Location	AM Total	M Peak Tir	M Peak Cou	Link#	From Node	To Node	A Peak Volume	Peak Volume	Actual AM Peak Count
West Side KMPO Screenline # 25									
Eastbound	277	700	140	0000	0015	747	247	205	4 442664072
Seltice Way W/O Beck Rd Rockford Bay Rd east of US 95	377 205	700	142 92	8826 9001	9015 1046	717 9177	347	205	1.443661972 -0.826086957
Elder Rd @ Washington Line	61	600	25	9274	1049	9355	0		-1.000000000
SH 58 @ Washington Line	241	700	82	9283	1068	9362	102	-25	0.243902439
Conkling Rd east of US 95	23	800	8	13365	1079	11081	56	48	6.000000000
SH 53 @Washington State Line	499	700	178	13244	514	11008	184	6	0.033707865
Totals Westbound	1406	-	527	-	-	x	705	178	0.337760911
Settice Way W/O Beck Rd	564	700	199	8826	717	9015	441	242	1.216080402
Rockford Bay Rd east of 190	116	700	41	9001	9177	1046	12	-29	-0.707317073
Elder Rd @ Washington Line	60	700	28	9274	9355	1049		-28	-1.000000000
SH 58 @ Washington Line	141	800	59	9283	9362	1068	62	3	0.050847458
Conking Rd east of US 95 SH 53 @ Washington State Line	34 1191	700	16 478	13365 13244	11081 11008	1079 514	52 480	36	2.250000000 0.004184100
Totals	2106	000	821	15244	11006	0.14	1047	226	0 275274056
	1. 0.000-se			1					
Location	AM Total	M Peak Tir	M Peak Cou	Link#	From Node	To Node	I Peak Volume	Peak Volume	Actual AM Peak Count
East Side KMPO Screenline # 26 Eastbound									
Bunco Rd @ Nunn Rd	8	700	4	13713	231	11243	7	3	0.75
Ohio Match Rd East of Rimrock Rd	39	600	15	13950	249	250	16	1	
Mullan Trail Rd north of I 90	48	800	24	1075	980	976	74	50	2.083333333
Sunnyside Rd south of Mullan Trail	21	800	10	1089	990	987	20	10	1.000000000
1 90 @ Shoshone Co. Line	1065	700	416	1160	1040	1042	275	-141	0.338942308
Fernan Lake Rd @ CdA City Limit	28	800	11	10296 10875	949 9999	9965	28	17	1.545454545
SH 54 West of Farragut Park Entrance Lancaster Rd east of Rimrock	110	700	81 51	11515	3999	200 10253	33	-18	0.358024691 -0.352941176
Totals	1505	100	612	1.010	0.14	0200	563	-49	-0.080065359
Westbound	- 10 M	S. mar	2	the second	1	6 (ca e)			Second Second
Bunco Rd @ Nunn Rd	55	700	21	13713	11243	231	7	-14	
Ohio Match Rd East of Rimrock Rd	26	600	9	13950	11357	249	6	-3	
Mullan Trail Rd north of I 90 Sunnyside Rd south of Mullan Trail	186	700	96 26	1075	976 987	980	103	7	0 072916667
1 90 (@ Shoshone Co. Line)	763	700	290	1157	1037	1041	264	-26	-0.089655172
Fernan Lake Rd @ CdA City Limit	24	700	10	10296	9965	949	155	145	14 500000000
SH 54 West of Farragut Park Entrance	235	700	102	10875	200	9999	97	-5	-0.049019608
Lancaster Rd east of Rimrock	139	800	55	11515	10253	344	70	15	0 272727273
Totals	1458		609	-	<u></u>		741	132	0.216748768
Location	AM Total	M Peak Tir	M Peak Cou	Link#	From Node	To Node	I Peak Volume	eak Volume	Actual AM Peak Count
Government Way Screenline # 27	AM Total	M Peak Tir	M Peak Cou	Link#	From Node	To Node	4 Peak Volume	Peak Volume	Actual AM Peak Count
Government Way Screenline # 27 Eastbound		1							
Government Way Screenline # 27 Eastbound Lancaster Ave	169	800	80	13640	11210	339	87	7	0.0875
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave	169 141	800 800	80 60	13640 285	11210 393	339 394	87 20	7-40	0.0875
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave	169 141 305	800 800 800	80 60 132	13640 285 341	11210	339 394 429	87	7 -40 -36	0.0875 -0.666666667 -0.272727273
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave	169 141	800 800	80 60	13640 285 341 13829 448	11210 393 428	339 394	87 20 96	7-40	0.0875 -0.666666667 -0.272727273 0.462962963 0.123529412
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuckle Ave Frame Ave Wilbur Ave	169 141 305 233 413 67	800 800 800 800 800 800 800 700	80 60 132 108 170 31	13640 285 341 13829 448 475	11210 393 428 456 502 527	339 394 429 457 503 528	87 20 96 158 191 4	7 -40 -36 50 21 -27	0.0875 -0.666666667 -0.272727273 0.4629662963 0.123529412 -0.870967742
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Hangesuckle Ave Prairie Ave Wilbur Ave Hanley, Ave	169 141 305 233 413 67	800 800 800 800 800 700 800	80 60 132 108 170 31 117	13640 285 341 13829 448 475 13792	11210 393 428 456 502 527	339 394 429 457 503 528 11279	87 20 96 158 191 4	7 -40 -36 50 21 -27	0.0875 -0.666666667 -0.272727273 0.4629662963 0.123529412 -0.870967742
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hangvan Ave Honeysuckle Ave Prairie Ave Wilbur Ave Hantey Ave Datton Ave	169 141 305 233 413 67 255 633	800 800 800 800 800 700 800 700 800 700	80 60 132 108 170 31 117 317	13640 285 341 13829 448 475 13792 602	11210 393 428 456 502 527 573 617	339 394 429 457 503 528	87 20 96 158 191 4 90 285	7 -40 -36 50 21 -27 -27 -27 -32	0.0875 -0.666666667 -0.272727273 0.462962963 0.1235294172 -0.870967742 -0.230769231 -0.100946372
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Hangesuckle Ave Prairie Ave Wilbur Ave Hanley, Ave	169 141 305 233 413 67	800 800 800 800 800 700 800	80 60 132 108 170 31 117	13640 285 341 13829 448 475 13792	11210 393 428 456 502 527	339 394 429 457 503 528 11279 618	87 20 96 158 191 4	7 -40 -36 50 21 -27	0.0875 -0.666666667 -0.272727273 0.4629662963 0.123529412 -0.870967742
Government Way Screenline # 27 Eastbound Lancaster Ave Hayden Ave Hayden Ave Haneysuckle Ave Prante Ave Wilbur Ave Hanley Ave Dation Ave Appleway/Best Ave	169 141 305 233 413 87 255 633 839	800 800 800 800 800 700 800 700 800 800	80 60 132 108 170 31 117 317 401	13640 285 341 13829 448 475 13792 602 877	11210 393 428 456 502 527 573 617 833 777 944	339 394 429 457 503 528 11279 618 834	87 20 96 158 191 4 90 285 392	7 -40 -36 50 21 -27 -27 -27 -32 -9 -21 99	0.0875 -0.666566667 -0.7272773 0.462962963 0.123529412 -0.870967742 -0.230769231 -0.00046372 -0.022443890 -0.133757662 0.222476298
Government Way Screenline # 27 Eastbound Lancaster Ave Hayden Ave Honeysuckle Ave Prairie Ave Wibur Ave Dation Ave Dation Ave Dation Ave Neider Ave NG Sherman Ave Wyorning Ave	169 141 305 233 413 87 255 633 839 317 1062 31	800 800 800 800 800 700 800 800 800 800	80 60 132 108 170 31 117 317 401 157 443 15	13640 285 341 13829 448 475 13792 602 877 816 1032 8875	11210 393 428 456 502 527 573 617 833 777 944 374	339 394 429 457 503 528 11279 618 834 779 951 9044	87 20 96 158 191 4 90 285 392 136 542 66	7 -40 -36 50 21 -27 -32 -9 -21 -9 -21 9 -21 9 51	0.0875 -0.666666657 -0.2727273 0.462962663 0.123529412 -0.87096742 -0.22443860 -0.10046372 -0.022443860 -0.133757652 0.223476298 3.40000000
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuckle Ave Fraine Ave Wilbur Ave Hantey Ave Datton Ave Appleway/Best Ave Neider Ave Not Sherman Ave Wyorting Ave Government Way	169 141 305 233 413 87 255 633 839 317 1062 31 232	800 800 800 800 800 700 800 800 800 800	80 60 132 108 170 31 117 401 157 443 15 114	13640 285 341 13829 448 475 13792 602 877 816 1032 8875 10297	11210 393 428 456 502 527 573 817 833 777 833 777 944 374 944	339 394 429 457 503 528 11279 618 834 779 951 9044 9733	87 20 96 158 159 191 4 90 285 392 2138 542 542 66 180	7 -40 -36 50 21 -27 -27 -22 -9 -21 -9 -21 -9 -21 -9 -21 -9 -21 -9 -21 -9 -21 -9 -21 -9 -21 -27 -27 -27 -27 -27 -27 -27 -27 -27 -27	0.0875 -0.666566667 -0.2727273 0.42265263 -0.123529412 -0.870967742 -0.230769231 -0.10046372 -0.022443800 -0.133757692 0.223476298 -0.223476298 -0.234789 -0.23476298 -0.234788 -0.2347888 -0.2347888 -0.2347888 -0.2347888 -0.2347888 -0.2347888 -0.2347888 -0.2347888 -0.234788888 -0.234788888 -0.23478888 -0.23478888 -0.234788888
Government Way Screenline # 27           Eastbound           Lancaster Ave           Miles Ave           Hayden Ave           Honeysuckle Ave           Praine Ave           Wilbur Ave           Hanley Ave           Dation Ave           Apploway/Best Ave           N/O Sherman Ave           Woyorning Ave           Government Way           Harrison Ave	169 141 305 233 413 87 255 633 839 317 1062 31 232 437	800 800 800 800 800 700 800 800 800 800	80 60 132 108 170 31 117 317 401 157 443 15 114 196	13640 285 341 13829 448 475 13792 602 877 816 1032 8875 10297 10468	11210 393 428 456 502 527 573 617 833 777 944 374 944 9812	339 394 429 457 503 528 11279 618 834 779 951 9044 9733 900	87 20 96 158 191 4 90 285 392 136 542 542 66 160 227	7 -40 -38 50 -27 -27 -27 -32 -9 9 -21 -99 -51 -46 -236	0.0875 -0.066666657 -0.272727273 0.462962663 0.123522412 -0.870967742 -0.20796231 -0.100946372 -0.133757652 0.223476298 -0.133757652 0.223476298 -0.133757652 0.223476298 -0.405508772 -2.62222222
Government Way Screenline # 27 Eastbound Miles Ave Hayden Ave Honeysuche Ave Honeysuche Ave Prairie Ave Wilbur Ave Hantey Ave Datton Ave Appleway/Best Ave N/O Sherman Ave Wyorning Ave Government Way Hartison Ave Foster Ave	169 141 305 233 413 87 255 633 839 317 1062 31 232	800 800 800 800 800 700 800 800 800 800	80 60 132 108 170 31 317 401 157 443 15 114 15 114 196 48	13640 285 341 13829 448 475 13792 602 877 816 1032 877 816 1032 8875 10297 10468 13015	11210 393 428 502 527 573 617 833 777 944 374 374 9812 9825	339 3944 429 457 503 528 11279 618 834 779 951 9044 9733 9000 10875	87 20 96 158 159 191 4 90 285 392 2138 542 542 66 180	7 -40 -36 500 21 -27 -27 -27 -27 -27 -27 -27 -27 -27 -27	0.0875 -0.666666667 -0.2727273 0.462962963 -0.230769231 -0.200769231 -0.200769231 -0.022443800 -0.13375762 0.223476238 -0.420368772 -0.42056872 -0.42056872 -0.
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Honeysuckle Ave Prairie Ave Wilbur Ave Hanley Ave Dation Ave Dation Ave Dation Ave NG Sterman Ave Wyoming Ave Government Way Harrison Ave Foster Ave Margaret Ave Totals	169 141 305 233 413 67 255 633 839 317 1062 31 232 437 107	800 800 800 800 800 700 800 800 800 800	80 60 132 108 170 31 117 317 401 157 443 15 114 196	13640 285 341 13829 448 475 13792 602 877 816 1032 8875 10297 10468	11210 393 428 456 502 527 573 617 833 777 944 374 944 9812	339 394 429 457 503 528 11279 618 834 779 951 9044 9733 900	87 20 96 158 1911 4 90 2855 392 136 542 66 160 2277 134	7 -40 -38 50 -27 -27 -27 -32 -9 9 -21 -99 -51 -46 -236	0.0875 -0.066666657 -0.272727273 0.462962663 0.123522412 -0.870967742 -0.20796231 -0.100946372 -0.133757652 0.223476298 -0.133757652 0.223476298 -0.133757652 0.223476298 -0.405508772 -2.62222222
Government Way Screenline # 27 Eastbound Lancaster Ave Hayden Ave Honeysuckle Ave Honeysuckle Ave Praine Ave Wilbur Ave Hantey Ave Dalton Ave Appleway/Best Ave Neider Ave NO Sherman Ave Wyorning Ave Sovernment Way Hamson Ave Foster Ave Margaret Ave Totals	169 141 305 233 413 67 255 633 839 317 1062 31 232 437 107 539 5780	800 800 800 800 800 800 800 800 800 800	80 60 132 108 170 31 117 317 401 157 433 15 114 195 114 198 48 231 2620	13640 285 341 13829 448 475 13792 602 877 816 1032 8875 10268 13015 11310	11210 393 428 456 502 527 573 617 833 777 944 374 9812 9812 9812 982 10160	339 394 429 457 503 528 11279 618 834 779 9511 9044 9733 9004 10875 894	87 200 96 158 191 4 90 0 285 392 392 392 392 542 66 65 542 66 6160 2277 134 158 2744	7 400 366 500 211 211 -27 -27 -27 -27 -22 -9 -9 -9 -21 -99 -21 -46 -46 -46 -46 -46 -46 -46 -46 -46 -46	0 0875 -0 066666667 -0 272727273 0 462962963 0 132529412 -0 870967742 -0 230799231 -0 100946372 -0 02043880 -0 133757662 0 223476298 3 400000000 0 40556777 2 6 62222222 0 158163265 1 791666667 0 047328244
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuckle Ave Prainie Ave Wibur Ave Hanley Ave Dation Ave Dation Ave Dation Ave No Sherman Ave No Sherman Ave Wyorning Ave Government Way Harrison Ave Foster Ave Margaret Ave Totals Urbalant Ave Lancastor Ave	169 141 305 233 413 67 255 633 839 317 1062 31 232 437 107 539 5780 348	800 800 800 800 800 700 800 800 800 800	80 60 132 108 170 31 117 317 401 155 114 443 155 114 196 48 281 2620 139	13640 285 341 13829 448 475 13792 602 877 816 1032 8875 10297 10468 13015 11310	11210 393 408 502 577 573 617 833 777 844 344 344 344 344 344 344 344 344 344	339 394 429 457 503 528 11279 618 834 779 618 904 9733 900 10875 694 11210	87 200 96 158 191 4 90 285 332 2 332 2 332 2 332 2 332 2 332 6 6 6 180 227 134 158 227 4 144 2249	7 .400 .366 .500 .211 .277 .27 .227 .99 .211 .999 .511 .466 .311 .866 .821 .124 .124 .110	0 0875 -0 666666657 -0 2727273 0 462962683 0 128528412 -0 230769231 -0 100946372 -0 022443800 -0 133757852 0 223476298 3 40000000 0 405589772 2 62222222 0 159163265 1 79166655 1 79166666 0 791366906
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuche Ave Praine Ave Wilbur Ave Hanley Ave Datton Ave Appleway/Best Ave N/O Sherman Ave N/O S	169 141 305 233 413 67 255 633 839 317 1062 31 232 437 107 539 5780 5780 287	\$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	80 60 132 108 170 31 117 317 443 15 114 157 144 257 2520 2520 139 114	13640 285 341 13829 448 475 13792 602 877 816 1032 8875 10297 10468 13015 11310 13640 285	11210 393 428 500 527 573 617 833 777 77 77 344 374 374 374 374 3942 3942 374 3942 3942 304 334 334 334 334 339 339 339 339	339 394 429 457 503 528 11279 618 834 779 951 904 9733 900 10875 694 112210 393	87 200 96 158 191 4 90 0 285 392 136 542 542 542 542 542 55 2744 249 552	7 -400 -366 500 211 -277 -277 -27 -27 -32 -99 -511 -466 -2366 -331 -866 -317 -277 -2	0.0875 -0.666566667 -0.2727273 0.462065263 0.123529412 -0.670967742 -0.230769231 -0.10046372 -0.022443800 0.13375762 0.223476288 3.400000000 0.403508772 2.622222222 0.158163265 1.791666667 0.0473282844 -0.543859649 -0.543859649
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuckle Ave Praitie Ave Wilbur Ave Dalton Ave Dalton Ave Dalton Ave Appleway/Best Ave N/C Sherman Ave Wyorning Ave Government Way Government Way Hostor Ave Totals Westbound Lancastor Ave Miles Ave Hayden Ave	169 141 305 233 413 67 255 633 839 317 1062 31 232 437 107 539 5780 248 287 284	800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           700         700           700         800           700         800	80 60 132 108 170 31 117 401 157 443 15 114 198 48 231 2520 139 114 242	13640 285 341 13629 448 475 13792 602 877 816 1032 8875 10297 10468 13015 11310 13640 285 341	11210 303 428 456 502 577 573 617 617 617 617 617 617 944 944 944 944 944 944 9825 10160 10160	339 394 429 457 503 528 11279 618 834 779 951 904 9733 900 10875 694 11210 11210 393 393	87 200 96 158 191 4 90 285 392 136 542 66 180 227 134 156 2744 2744 249 52 186	7 -400 -368 500 -211 -277 -27 -22 -22 -29 -9 -9 -511 -236 -236 -236 -236 -236 -236 -236 -236	0.0875 -0.066666677 -0.2727273 0.462962963 0.123529412 -0.230769231 -0.02948390 -0.133757662 0.224476298 -0.02448390 0.465508772 -0.224476298 -0.158153265 1.791666667 0.047328244 0.047328244 -0.791366906 -0.54385906 -0.54385906 -0.54385906 -0.54385906 -0.54385906 -0.54385906 -0.54385906 -0.5434044595 -0.2314044595 -0.231404455 -0.2314045 -0.23140455 -0.23140455 -0.23140455 -0.23140455 -0.23140455 -0.23140455 -0.23140455 -0.23140455 -0.23140455 -0.23140455 -0.23140455 -0.23140455 -0.2314045 -
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuche Ave Praine Ave Wilbur Ave Hanley Ave Datton Ave Appleway/Best Ave N/O Sherman Ave N/O S	169 141 305 233 413 67 255 633 839 317 1062 31 232 437 107 539 5780 5780 287	\$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	80 60 132 108 170 31 117 317 443 15 114 157 144 257 2520 2520 139 114	13640 285 341 13829 448 475 13792 602 877 816 1032 8875 10297 10468 13015 11310 13640 285	11210 393 428 500 527 573 617 833 777 77 77 344 374 374 374 374 3942 3942 374 3942 3942 304 334 334 334 334 339 339 339 339	339 394 429 457 503 528 11279 618 834 779 951 904 9733 900 10875 694 112210 393	87 200 96 158 191 4 90 0 285 392 136 542 542 542 542 542 55 2744 249 552	7 -400 -366 500 211 -277 -277 -27 -27 -32 -99 -511 -466 -2366 -331 -866 -317 -277 -2	0.0875 -0.666566667 -0.2727273 0.462065263 0.123529412 -0.670967742 -0.230769231 -0.10046372 -0.022443800 0.13375762 0.223476288 3.400000000 0.403508772 2.622222222 0.158163265 1.791666667 0.0473282844 -0.543859649 -0.543859649
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hangvin Ave Honeysuckler Ave Praine Ave Witbur Ave Hantey Ave Dation Ave Appleway/Best Ave Nor Sherman Ave Wyoming Ave Government Way Hartson Ave Foster Ave Margaret Ave Totals Totals Westbound Lancaster Ave Miles Ave Hayden Ave Hangvin Ave Hartson Ave	169 141 305 233 413 67 255 633 839 317 1062 31 232 31 232 31 232 31 237 437 437 437 539 5780 348 287 584 584 466 1076 109	\$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	80 60 132 108 170 170 311 117 401 317 401 317 401 137 443 48 2310 2520 2520 2521 114 245 139 114 245 139 114 245 139 144 245 150 150 114 245 150 150 114 115 150 150 114 115 150 150 150 150 150 150 150	13640 285 341 13829 448 475 13792 602 877 816 13792 602 875 13792 13792 10297 10468 130197 10297 10468 130197 103640 285 341 13829 448 475	11210 303 428 507 577 573 617 833 777 79 944 374 941 944 941 941 941 941 941 941 941 94	339 394 429 459 450 503 528 834 779 961 9044 973 9004 973 9004 9041 9045 694 11210 393 393 393 428 456 502 527	87 200 96 158 191 4 90 285 3922 136 542 66 66 66 66 66 66 227 134 156 2744 249 52 52 52 53 23 80 0 11	7 -40 -366 500 211 -277 -27 -27 -322 -9 99 99 99 511 -46 236 236 236 236 236 -211 -62 -56 -56 -56 -56 -152 -152 -322 -322	0.0875 -0.666566657 -0.2727273 0.462962663 -0.230769231 -0.200769231 -0.200769231 -0.0046372 -0.022443800 -0.13375762 0.222476298 -0.22476298 -0.22476298 -0.463508772 -2.62222222 0.158163265 1.791866865 1.791866865 0.047328244 -0.2314046959 -0.231404959 -0.231404959 -0.231404959 -0.231404959 -0.2314188047.
Government Way Screenline # 27           Eastbound           Eastbound           Lancaster Ave           Miles Ave           Hayden Ave           Honeysuckle Ave           Praine Ave           Wilbur Ave           Dalton Ave           Appleway/Best Ave           NVO Sherman Ave           Wyorning Ave           Government Way           Harmson Ave           Foster Ave           Miles Ave           Westbound           Earcaster Ave           Miles Ave           Hartson Ave           Poster Ave           Miles Ave           Hartson Ave           Poster Ave           Miles Ave           Hartson Ave           Miles Ave           Hories/succide Ave           Prame Ave           Wilbur Ave           Manily Av	169 141 305 233 413 87 633 87 633 830 317 1082 31 232 437 107 539 5780 5780 5780 5780 5780 5780 5780 5780	800 800 800 700 800 800 800 800 800 800	80 80 132 108 170 31 177 317 401 157 157 157 157 157 157 157 15	13640 285 341 13829 448 475 13729 602 877 876 1032 8875 10297 10468 13015 11310 13640 285 341 13629 448 475	11210 3933 428 456 502 577 573 617 8333 9444 3744 9442 9444 9412 9412	339 394 429 457 503 528 811279 618 834 779 951 904 9733 900 10875 694 11210 10875 694 11210 10875 694	87 200 96 158 191 4 90 2855 362 136 542 66 180 0 227 134 156 2744 274 156 2744 249 52 1466 3233 810 11 182	7 366 500 211 -277 -277 -277 -277 -277 -277 -277	0.0875 -0.666666677 -0.27272573 0.425262633 0.125252412 -0.230769231 -0.109046372 -0.0224476398 -0.133757652 0.224476398 -0.4000000 0.405508772 2.62222222 0.158153265 -1.731666667 -0.047328244 0.047328244 0.731366906 -0.543859849 -0.231404959 -0.23140459 -0.231404
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hangden Ave Honeysuckle Ave Pramte Ave Wilbur Ave Haniey Ave Dation Ave Dation Ave Dation Ave Dation Ave Dation Ave Milor Ave Morgaret Ave Horson Ave Foster Ave Margaret Ave Hoster Ave Messawe Hoster Ave Honeysuckle Ave Prame Ave Honeysuckle Ave Prane Ave Honeysuckle Ave Prane Ave Haniey Ave Dation Ave Honeysuckle Ave Honeysuckle Ave Haniey Ave Dation Ave	169 141 305 233 413 67 255 633 839 317 1062 331 232 437 107 539 5780 248 287 287 287 284 486 1075 109 482 589	800 800 800 700 700 800 800 800 800 800	80 60 132 108 170 317 401 317 401 317 401 171 401 401 401 402 403 403 405 114 405 114 405 405 405 405 405 405 405 40	13640 285 341 13629 448 475 13792 602 877 877 877 876 10297 10468 13015 11310 13640 285 341 13829 448 475 13792 602	11210 303 428 456 5022 573 573 617 944 374 944 374 944 374 941 9812 9825 10160 339 9825 10160 339 304 422 9825 11266 503 503 504 503 504 504 504 504 504 504 504 504 504 504	339 394 429 503 528 11279 618 834 779 951 904 900 10875 694 11210 393 393 9000 10875 694 11220 393 393 802 502 527 673 617	87 200 96 158 191 4 4 90 285 392 136 542 66 180 227 134 156 2744 249 52 286 333 345 160 11 182 332	7 -40 -366 500 211 -277 -277 -277 -277 -277 -277 -271 -99 99 99 511 -466 2366 2366 2366 2365 -110 -110 -110 -110 -110 -110 -110 -11	0 0875 -0 666666657 -0 2727273 0 462962683 0 128524412 -0 230769231 -0 100946372 -0 022443890 -0 133757652 0 223476238 3 400000000 0 405508772 2 62222222 2 62222222 0 158163265 1 79166606 -0 543859649 -0 23442699 -0 23462626 -0 54859649 -0 54859
Government Way Screenline # 27 Eastbound Lancaster Ave Hales Ave Hayden Ave Honeysuckle Ave Praitie Ave Wilbur Ave Dalton Ave Appleway/Best Ave Neider Ave Neider Ave Neider Ave Neider Ave Appleway/Best Ave Neider Ave Appleway/Best Ave Neider Ave Appleway/Best Ave Neider Ave Government Way Harrison Ave Government Way Harrison Ave Foster Ave Margaret Ave Totals Westbound Lancaster Ave Hayden Ave Hayden Ave Hayden Ave Foster Ave Hayden Ave Hayden Ave Hayden Ave Hanley Ave Handy Ave Delton Ave Delton Ave Neider Ave	169 141 305 233 413 67 255 633 839 317 1062 317 232 437 107 539 5780 348 287 584 466 1075 109 482 589 567	800 800 800 700 800 800 800 800 800 800	80 60 132 108 1700 31 1770 317 107 443 157 1443 157 1443 156 157 1443 196 48 48 2520 139 114 2422 190 114 2422 190 114 242 190 114 242 190 114 242 190 114 242 190 114 242 190 114 242 190 114 114 242 190 114 114 114 114 114 114 114 11	13640 285 341 13629 448 448 448 448 877 816 102 8875 10297 10322 8875 10322 8875 10328 8875 10328 8875 10328 10328 10328 13015 11310 285 341 13640 285 341 13829 448 448 448 448 448 13829 802 816	11210 3933 4288 456 5022 577 573 617 8333 7777 9444 3744 9812 9825 10160 9825 10160 9825 10160 9825 10160 9825 10160 8359 429 101296 10160 8359 429 101296 10160 100 10	339 394 429 503 508 528 528 528 528 528 528 904 905 904 9733 900 10875 5694 11210 3833 4286 502 5573 573 617 777 777	87 200 96 158 191 4 90 2255 3352 355 352 66 160 227 134 156 2744 274 249 52 2186 323 610 111 182 3325	7 366 500 211 -277 -277 -277 -277 -277 -277 -277	0 0875 -0 066666657 -0 272727273 0 425962683 0 132529412 -0 870967742 -0 230799231 -0 100946372 -0 022443900 -0 133757662 0 223476298 -0 40550677 -0 22443900 -0 158153265 -1 791366906 -0 543859649 -0 231404959 -0 700000000 -0 331677729 -0 744156047 -0 74428571 -0 744156047 -0 74428571 -0 74428571 
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuckle Ave Prante Ave Wilbur Ave Hanley Ave Dation Ave Dation Ave Dation Ave N/O Sherman Ave Wyorning Ave Government Way Harrison Ave Foster Ave Marguret Ave Totals Westbound Lancaster Ave Milba Ave Honeysuckle Ave Frame Ave Wilbur Ave Hangy Ave Dation Ave Frame Ave Wilbur Ave Hangy Ave Dation Ave Neider Ave	169 141 305 233 413 67 255 633 839 317 1062 331 232 437 107 539 5780 248 287 287 287 284 486 1075 109 482 589	800 800 800 700 700 800 800 800 800 800	80 60 132 108 170 317 401 317 401 317 401 171 401 401 401 402 403 403 405 114 405 114 405 405 405 405 405 405 405 40	13640 285 341 13629 448 475 13792 602 877 877 877 876 10297 10468 13015 11310 13640 285 341 13829 448 475 13792 602	11210 303 428 456 5022 573 573 617 944 374 944 374 944 374 941 9812 9825 10160 339 9825 10160 339 339 422 9825 10160 608 503 503 502 503 502 503 503 503 503 503 503 503 503 503 503	339 394 429 503 528 11279 618 834 779 951 904 900 10875 694 11210 393 393 9000 10875 694 11220 393 393 802 502 527 673 617	87 200 96 158 191 4 4 90 285 3302 136 542 66 180 227 134 158 2744 158 2744 249 252 186 323 3610 111 182 3325 5955	7 -40 -366 500 211 -277 -277 -277 -277 -277 -277 -271 -99 99 99 511 -466 2366 2366 2366 2365 -110 -110 -110 -110 -110 -110 -110 -11	0 0875 -0 666666657 -0 7272773 0 462962683 0 128529412 -0 230766231 -0 100946372 -0 022443800 -0 138757952 0 224478208 -0 405308772 -0 224476298 -0 405308772 -0 224476298 -0 405308772 -0 224476298 -0 159153265 -1 791668667 -0 047326244 -0 791366906 -0 543859849 -0 23414959 -0 23414959 -0 23414959 -0 23414959 -0 23414959 -0 23414959 -0 244188047 -0 0744188047 -0 07442857110 -0 28821705 -0 443084378 -0 352272727
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuckle Ave Prame Ave Daton Ave Apploway/Best Ave Nio Sherman Ave Worning Ave Foster Ave Margaret Ave Toster Ave Margaret Ave Toster Ave Margaret Ave Toster Ave Margaret Ave Toster Ave Margaret Ave Toster Ave Margaret Ave Toster Ave Miles Ave Honeysuckle Ave Prame Ave Prame Ave Miles Ave Miles Ave Miles Ave Margaret Ave Daton Ave Margaret Ave Daton Ave Margaret Ave Margaret Ave Margaret Ave Daton Ave Margaret Ave Margaret Ave Margaret Ave Miles Ave Margaret Ave Miles Ave Margaret Ave Miles Ave Margaret Ave Margaret Ave Miles Ave Margaret Ave M	169 141 305 233 413 67 255 633 839 317 1062 31 232 437 107 539 5780 348 287 584 466 1075 109 482 589 567 1112 790 110	800 800 800 700 800 800 800 800 800 800	80 80 132 108 170 31 177 401 157 143 157 114 48 231 2620 139 114 2620 139 114 2620 139 124 242 242 139 124 242 243 43 165 125 255 235 240 340 46 165 165 165 165 175 175 175 175 175 175 175 17	13640 285 341 13628 448 475 13792 602 877 877 816 8079 10468 13015 13610 285 341 13620 285 341 13620 285 341 13792 285 341 13792 285 341 13792 285 341 13792 285 341 13792 285 341 13792 285 341 13792 285 341 13792 285 341 1379 285 341 1379 285 341 1379 285 341 1379 285 341 1379 285 341 1379 285 341 1379 285 341 1379 285 341 1379 1379 1002 1002 1002 1002 1002 1002 1002 100	11210 3033 4788 456 5072 577 573 617 8333 7777 9444 9444 9444 9444 9442 9445 9445 9445	339 394 429 503 528 11279 618 834 779 951 904 905 10875 694 11210 393 3900 10875 694 11210 3933 4288 456 502 537 617 777 777 8333 617 833 438 444 3744 3744	87 200 96 158 191 4 90 285 392 136 542 66 66 66 66 66 227 134 156 274 134 156 274 134 156 274 134 156 274 134 156 274 134 158 274 134 158 274 158 275 134 149 158 158 159 158 159 159 159 159 159 159 159 159 159 159	7 -400 -366 500 211 -277 -277 -277 -27 -29 -9 -9 -9 -9 -9 -9 -9 -9 -9 -	0 0875 -0 666666657 -0 67272773 0 462962663 0 128252412 -0 870967742 -0 20769231 -0 100446372 -0 0224476298 -0 133757662 0 222476298 -0 33757662 0 222476298 -0 33757662 0 158163265 -1 7391666667 -0 047328244 -0 791366906 -0 543859649 -0 73144959 -0 73144959 -0 73144959 -0 73144959 -0 73144959 -0 73144959 -0 73144959 -0 74128571 -0 28821705 -0 44304373 -0 74428571 -0 28821705 -0 4430434783 -0 505714286 -1 3424783 
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hander, Ave Honeysuckle Ave Prame Ave Milbur Ave Hantey, Ave Dation Ave Apploway/Best Ave NiO Sherman Ave Worning Ave Government Way Harrison Ave Foster Ave Margaret Ave Todats Westbound Lancaster Ave Miles Ave Honeysuckle Ave Honeysuckle Ave Prame Ave Honeysuckle Ave Honeysuckle Ave Honeysuckle Ave Milbur Ave Margaret Ave Dation Ave Haniey Ave Dation Ave Haniey Ave Dation Ave Haniey Ave Dation Ave Na Government May Haniey Ave Dation Ave Na Government Ave Miles Ave Margaret Ave Miles Ave Margaret Ave Miles Ave Miles Ave Margaret Ave Miles Ave Margaret Ave Miles Ave Margaret Ave	160           141           305           233           413           87           255           633           839           317           1062           31           232           437           107           539           5780           248           287           584           466           1076           107           482           589           567           1112           790           110           174	800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           700         700           700         700           700         800           800         800           800         800           800         800	80 60 132 108 170 31 177 317 15 114 187 143 15 114 189 48 231 2620 199 199 48 231 114 2620 199 199 48 43 196 458 43 196 2230 440 230 440 230 440 230 230 440 230 230 440 230 230 440 230 230 240 240 250 240 250 260 260 260 260 260 260 260 260 260 26	13840 285 341 13829 448 475 13792 602 877 10488 8875 10297 10488 341 13829 13829 448 475 13929 448 475 13929 876 877 1032 8875 800 877	11210 393 428 456 502 577 573 617 833 7777 944 344 344 344 344 344 344 344 344 344	339 429 429 457 503 528 8344 779 9044 9044 9044 9044 904 9044 904 9051 11220 10875 6944 9044 9044 9044 9045 11220 10875 6944 428 6577 573 617 7777 7777 7777 7777 7777 7777 777	87 87 20 96 158 191 4 90 2855 3922 1366 542 542 542 542 156 224 156 224 156 224 156 224 158 224 158 224 158 224 158 224 158 225 168 227 134 158 227 134 158 227 134 158 227 134 158 227 134 158 227 134 158 227 134 158 227 135 158 227 135 158 158 158 158 158 158 158 15	7 -40 -366 500 211 -277 -272 -223 -271 -27 -271 -27 -27 -27 -27 -27 -27 -27 -27	0 0875 -0 06666667 -0 272727273 0 462962683 0 132529412 -0 870967742 -0 20796231 -0 100046372 -0 02043880 -0 133757962 0 222476286 3 40000000 0 403568772 2 0 62222222 0 156163265 1 791666667 0 047328244 
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuckle Ave Prame Ave Datton Ave Apploway/Best Ave Nico Sherman Ave Woyorning Ave Government Way Harrison Ave Foster Ave Margaret Ave Totals Usetbound Lancaster Ave Miles Ave Honeysuckle Ave Honeysuckle Ave Praine Ave Westbound Lancaster Ave Miles Ave Honeysuckle Ave Praine Ave Miles Ave Honeysuckle Ave Praine Ave Miles Ave Honeysuckle Ave Praine Ave Appleway/Elest Ave Appleway/Elest Ave Appleway/Elest Ave More Science Government Way Harrison Ave	169           141           305           233           413           87           255           633           830           317           1062           31           232           437           107           539           5780           348           287           584           466           1075           109           482           589           567           1112           790           110           174           600	800 800 800 700 800 800 800 800 800 800	80 80 80 132 108 170 31 177 317 401 157 143 157 144 257 48 231 2620 139 114 2620 139 134 134 144 231 26200 2620 2620 2620 2620 2620 2620	13840 285 341 13829 448 4475 13792 602 8875 10297 10468 448 475 13329 285 341 13015 11310 285 341 13229 448 475 13229 448 475 13229 448 475 13229 448 475 13229 448 475 10297 10297 10287 602 602 602 602 602 602 602 602 602 602	11210 3393 428 456 502 577 573 617 617 637 9344 944 944 944 944 944 944 941 944 944 9	339 394 429 457 503 528 834 779 951 904 9051 904 9051 900 10875 694 11210 383 3900 10875 694 11210 383 383 428 456 502 577 7777 777 777 777 777 77 77 78 333 944 374 43 844 944 9812	87 200 96 158 191 4 90 2255 392 136 542 542 542 542 186 2744 155 2744 249 52 249 52 186 323 3610 111 182 332 55 55 77 98 3326 542 527 98 3326 542 542 542 542 542 542 542 542 542 542	7 -400 -366 500 211 -277 -276 -266 -562 -565 -562 -565 -575	0.0875 -0.666666657 -0.2727273 0.462962963 0.123252412 -0.230769231 -0.230769231 -0.020443890 -0.133757662 0.224476298 -0.024476298 -0.024476298 -0.024476298 -0.024476298 -0.024476298 -0.047328244 -0.791366906 -0.543859649 -0.791366906 -0.54385944 -0.791366905 -0.74128571 -0.741428571 -0.741428571 -0.741428571 -0.55714285 -1.130424783 -0.5582290233 -1.552290233 -1.5522902000000
Government Way Screenline # 27 Eastbound Elancaster Ave Milles Avie Hayden Avie Honeysuckle Ave Praine Ave Wilbur Ave Hantey Ave Daton Ave Apploway/Best Ave Nid Gar Ave NO'S herman Ave Worning Ave Government Way Harrson Ave Eoster Ave Margaret Ave Totals Westbound Lancaster Ave Margaret Ave Totals Westbound Lancaster Ave Hayden Ave Handen Ave Handen Ave Handen Ave Handen Ave Milbur Ave Margaret Ave Totals Westbound Lancaster Ave Margaret Ave Totals Westbound Lancaster Ave Margaret Ave Hayden Ave Handen Ave Margaret Ave	160           141           305           233           413           87           255           633           839           317           1062           31           232           437           107           539           5780           248           287           584           466           1076           107           482           589           567           1112           790           110           174           600           169	800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           700         700           700         700           700         800           800         800           800         800           800         800	80 60 132 108 170 31 177 317 443 15 114 189 48 231 190 48 231 2620 139 48 231 114 114 242 242 242 242 458 43 196 253 440 90 248 230 248 459 250 250 250 250 250 250 250 260 260 260 260 260 260 260 260 260 26	13840 285 341 13829 448 475 13792 602 877 13792 8875 13792 8875 13792 8875 13792 13048 13015 13015 13040 285 341 13792 8875 13792 8875 13792 8875 13792 8875 13792 8875 13792 8875 13792 8875 13792 13829 13929 14929 14929 14929 14929 14929 14929 14929 14929 14	11210 303 428 456 5077 573 617 944 374 944 374 9812 9825 10160 503 503 503 503 503 503 503 503 503 50	339 394 429 457 503 528 834 779 951 904 9051 904 9051 900 10875 694 11210 383 3900 10875 694 11210 383 383 428 456 502 577 7777 777 777 777 777 77 77 78 333 944 374 43 844 944 9812	87 200 96 158 191 4 90 2255 392 136 542 542 542 542 186 2744 155 2744 249 52 249 52 186 323 3610 111 182 332 55 55 77 98 3326 542 527 98 3326 542 542 542 542 542 542 542 542 542 542	7 -40 -366 500 211 -277 -223 -29 -21 -27 -27 -27 -27 -27 -27 -27 -27	0 0875 -0 66666667 -0 272727273 0 462962683 0 132529412 -0 870967742 -0 20796231 -0 100046372 -0 02043880 -0 133757062 0 222476286 3 400000000 0 403568772 -0 022476286 3 40000000 0 403568772 -0 022422222 0 156163265 -1 51665667 -0 047328244 
Government Way Screenline # 27 Eastbound Elancaster Ave Milles Avie Hayden Avie Honeysuckle Ave Praine Ave Wilbur Ave Hantey Ave Daton Ave Apploway/Best Ave Nid Gar Ave NO'S herman Ave Worning Ave Government Way Harrson Ave Eoster Ave Margaret Ave Totals Westbound Lancaster Ave Margaret Ave Totals Westbound Lancaster Ave Hayden Ave Handen Ave Handen Ave Handen Ave Handen Ave Milbur Ave Margaret Ave Totals Westbound Lancaster Ave Margaret Ave Totals Westbound Lancaster Ave Margaret Ave Hayden Ave Handen Ave Margaret Ave	169           141           305           233           413           87           255           633           830           317           1062           31           232           437           107           539           5780           348           287           584           466           1075           109           482           589           567           1112           790           110           174           600	800 800 800 700 800 800 800 800 800 800	80 80 80 132 108 170 31 177 317 401 157 143 157 144 257 48 231 2620 139 114 2620 139 134 134 144 231 26200 2620 2620 2620 2620 2620 2620	13840 285 341 13829 448 4475 13792 602 8875 10297 10468 448 475 13329 285 341 13015 11310 285 341 13229 448 475 13229 448 475 13229 448 475 13229 448 475 13229 448 475 10297 10297 10287 602 602 602 602 602 602 602 602 602 602	11210 3393 428 456 502 577 573 617 617 637 9344 944 944 944 944 944 944 941 944 944 9	339 429 429 457 503 528 8344 779 9044 9044 9044 9044 904 9044 904 9051 11220 10875 6944 9044 9044 9044 9045 11220 10875 6944 428 6577 573 617 7777 7777 7777 7777 7777 7777 777	87 200 96 158 191 4 90 2255 392 136 542 542 542 542 186 2744 155 2744 249 52 249 52 186 323 3610 111 182 332 55 55 77 98 3326 542 527 98 3326 542 542 542 542 542 542 542 542 542 542	7 -400 -366 500 211 -277 -276 -266 -562 -565 -562 -565 -575	0.0875 -0.666666657 -0.2727273 0.462962963 0.123252412 -0.230769231 -0.230769231 -0.020443890 -0.133757662 0.224476298 -0.024476298 -0.024476298 -0.024476298 -0.024476298 -0.024476298 -0.047328244 -0.791366906 -0.543859649 -0.791366906 -0.54385944 -0.791366905 -0.74128571 -0.741428571 -0.741428571 -0.741428571 -0.55714285 -1.130424783 -0.5582290233 -1.552290233 -1.5522902000000
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuckle Ave Praine Ave Wilbur Ave Hanley Ave Dalton Ave Apploway/Best Ave No Sherman Ave Wy Orning Ave Government Way Harrison Ave Foster Ave Margaret Ave Totals Westbound Lancaster Ave Margaret Ave Noneyauckle Avie Praine Ave Worning Ave Government Way Harrison Ave Foster Ave Margaret Ave Totals	169           141           305           233           413           87           255           633           830           317           1062           31           232           437           107           539           5780           348           287           584           10075           109           482           589           5667           1112           790           110           159           844           8296	800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           700         800           700         800           700         800           700         800           700         700           800         700           800         700           800         800           700         800           800         800           700         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800	80 80 132 103 170 317 177 317 401 157 144 43 157 144 48 2520 139 48 2520 139 144 2520 139 144 242 1390 144 242 2520 139 144 2520 2	13640 285 341 13629 602 877 877 877 877 877 877 877 877 877 87	11210 3383 428 502 577 573 617 833 844 944 944 944 941 944 941 941 941 941 9	339 394 429 457 503 528 11279 814 951 9044 973 9000 10875 694 11210 10875 694 11210 10875 694 11210 10875 694 11210 10875 694 10875 777 777 777 777 777 777 777 777 777	87 20 96 158 191 4 90 2255 302 66 136 542 66 160 227 134 156 2744 249 52 24 8 6 2744 249 52 24 8 6 186 274 158 274 249 525 555 555 557 79 8 8 3381 381 11 11 219 232 22 24 8 8 8 37 24 232 232 232 24 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	7 -40 -366 500 211 -277 -277 -223 -21 -21 -21 -27 -27 -27 -27 -27 -27 -27 -27	0.0875 -0.066666657 -0.272727273 0.425962683 0.123529412 -0.870967742 -0.23079231 -0.100946372 -0.22476298 -0.133757652 0.22476298 -0.133757652 0.22476298 -0.133757652 -0.22476298 -0.23476298 -0.23476298 -0.231404959 -0.23057729 -0.771428571 -0.25691753 -0.23691753 -0.23691753 -0.337040205 -0.337040205
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuckle Ave Prainie Ave Wibur Ave Hanley Ave Dation Ave Dation Ave Dation Ave No Sherman Ave Wyorning Ave Government Way Horider Ave Margiaret Ave Margiaret Ave Margiaret Ave Totals Westbound Lancastor Ave Miles Ave Honeysuckle Ave Poater Ave Wibur Ave Honeysuckle Ave Prane Ave Wibur Ave Hanley Ave Dation Ave Appleway/Best Ave Margiaret Ave No Sherman Ave Wording Ave Government Way Hanley Ave Dation Ave Neider Ave Miles Ave Hanley Ave Dation Ave No Sterman Ave Wording Ave Government Way Hartson Ave Foster Ave Margiaret Ave Hartson Ave Foster Ave Covernment Way Hartson Ave Foster Ave Location	169           141           305           233           413           87           255           633           839           317           1062           31           232           437           107           539           5780           348           287           584           466           1075           109           482           589           567           1112           790           110           174           600           189           844	800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           700         800           700         800           700         800           700         800           700         700           800         700           800         700           800         800           700         800           800         800           700         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800	80 80 132 103 170 317 177 317 401 157 144 43 157 144 48 2520 139 48 2520 139 144 2520 139 144 242 1390 144 242 2520 139 144 2520 2	13640 285 341 13629 602 877 877 877 877 877 877 877 877 877 87	11210 303 428 456 5077 573 617 944 374 944 374 9812 9825 10160 503 503 503 503 503 503 503 503 503 50	339 394 429 457 503 528 11279 814 951 9044 973 9000 10875 694 11210 10875 694 11210 10875 694 11210 10875 694 11210 10875 694 1220 1333 3033 4428 456 502 577 877 777 777 777 777 777 777 777 777	87 20 96 158 191 4 90 2255 302 66 136 542 66 160 227 134 156 2744 249 52 24 8 6 2744 249 52 24 8 6 186 274 158 274 249 525 555 555 557 79 8 8 3381 381 11 11 219 232 22 24 8 8 8 37 24 232 232 232 24 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	7 -40 -366 500 211 -277 -277 -223 -21 -21 -21 -27 -27 -27 -27 -27 -27 -27 -27	0.0875 0.0666567 0.0727273 0.4629626567 0.02727273 0.462962683 0.123529412 0.230769231 0.0234380 0.033757662 0.223476298 3.4000000 0.462508772 0.223476298 0.158153265 1.791666667 0.047328244 0.047328244 0.047328244 0.047328244 0.047328244 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03732824 0.03738 0.0374484 0.03728 0.03744 0.0374 0.03742857 0.03742857 0.03742857 0.03742857 0.03742857 0.0374285 0.037428 0.037428 0.0383478 0.03824783 0.03824783 0.03824783 0.03824783 0.03824783 0.03824783 0.03824783 0.0383478 0.0383478 0.03824783 0.03824783 0.03824783 0.038000000 0.0381040205 0.0000000 0.03838 0.038040205 0.0384478 0.0384478 0.03838478 0.03838478 0.03864 0.03864 0.03864 0.03864 0.03864 0.03864 0.03864 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.0386 0.038 0.03 0.03
Government Way Screenline # 27 Eastbound Lancaster Ave Miles Ave Hayden Ave Honeysuckle Ave Praine Ave Wilbur Ave Hantey Ave Dalton Ave Appleway/Best Ave NVC Sherman Ave Wyorning Ave Hayden Ave Hayd	169           141           305           233           413           87           255           633           830           317           1062           31           232           437           107           539           5780           348           287           584           10075           109           482           589           5667           1112           790           110           159           844           8296	800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           700         800           700         800           700         800           700         800           700         700           800         700           800         700           800         800           700         800           800         800           700         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800	80 80 132 103 170 317 177 317 401 157 144 43 157 144 48 2520 139 48 2520 139 144 2520 139 144 242 1390 144 242 1390 144 2520 139 144 2520 139 144 2520 139 144 2520 139 144 145 157 144 157 146 157 146 157 157 146 157 157 157 157 157 157 157 157	13640 285 341 13629 602 877 877 877 877 877 877 877 877 877 87	11210 3383 428 502 577 573 617 833 844 944 944 944 941 944 941 941 941 941 9	339 394 429 457 503 528 11279 814 951 9044 973 9000 10875 694 11210 10875 694 11210 10875 694 11210 10875 694 11210 10875 694 1220 1333 3033 4428 456 502 577 877 777 777 777 777 777 777 777 777	87 20 96 158 191 4 90 2255 302 66 136 542 66 160 227 134 156 2744 249 52 24 8 6 2744 249 52 24 8 6 186 274 158 274 249 525 555 555 557 79 8 8 3381 381 11 11 219 232 22 24 8 8 8 37 24 232 232 232 24 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	7 -40 -366 500 211 -277 -277 -223 -21 -21 -21 -27 -27 -27 -27 -27 -27 -27 -27	0.0875 -0.06666667 -0.2727273 0.46266267 -0.2727273 0.4627626293 0.123529412 -0.230799231 -0.20799231 -0.130757652 0.223476298 -0.133757652 0.223476298 -0.133757652 0.223476298 -0.231404959 0.791366907 -0.47332244 -0.474385143 -0.47332244 -0.47332244 -0.47332244 -0.47332244 -0.47332244 -0.47332244 -0.47332244 -0.47332244 -0.4733244 -0.4733244 -0.474385143 -0.47442857 -0.4744285 -0.4744285 -0.4744285 -0.47444 -0.474478 -0.4744 -0.4744 -0.474478 -0.4744 -0.474 -0.4744 -0.474 -0.4744 -0.474 -0
Government Way Screenline # 27 Eastbound Lancaster Äve Miles Ave Handen Ave Handen Ave Honeysuckle Ave Prantie Äve Wilbur Äve Lantey Äve Dation Äve Dation Äve NVO Sherman Äve WyOming Äve Government Way Harrison Äve Foster Äve Marginert Äve Honeysuckle Ave Foster Äve Miles Äve Honeysuckle Ave Foster Äve Miles Äve Honeysuckle Ave Foster Äve Miles Äve Honeysuckle Ave NVO Sherman Ave Wilbur Äve Dation Äve Honeysuckle Ave Honeysuckle Ave NVO Sherman Ave Wilbur Äve Honeysuckle Ave Honeysuckle Ave Honeysuckle Ave NVO Sherman Ave Wilbur Äve Honeysuckle Ave Honeysuckle Honeysu	169           141           305           233           413           87           255           633           830           317           1062           31           232           437           107           539           5780           348           287           584           10075           109           482           589           5667           1112           790           110           159           844           8296	800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           700         800           700         800           700         800           700         800           700         700           800         700           800         700           800         800           700         800           800         800           700         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800           800         800	80 80 132 103 170 317 177 317 401 157 144 43 157 144 48 2520 139 48 2520 139 144 2520 139 144 242 1390 144 242 1390 144 2520 139 144 2520 139 144 2520 139 144 2520 139 144 145 157 144 157 146 157 146 157 157 146 157 157 157 157 157 157 157 157	13640 285 341 13629 602 877 877 877 877 877 877 877 877 877 87	11210 3383 428 502 577 573 617 833 844 944 944 944 941 944 941 941 941 941 9	339 394 429 457 503 528 11279 814 951 9044 973 9000 10875 694 11210 10875 694 11210 10875 694 11210 10875 694 11210 10875 694 1220 1333 3033 4428 456 502 577 877 777 777 777 777 777 777 777 777	87 20 96 158 191 4 90 2255 302 66 136 542 66 160 227 134 156 2744 249 52 24 8 6 2744 249 52 24 8 6 186 274 158 274 249 525 555 555 557 79 8 8 3381 381 11 11 219 232 22 24 8 8 8 37 24 232 232 232 24 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	7 -40 -366 500 211 -277 -277 -223 -21 -21 -21 -27 -27 -27 -27 -27 -27 -27 -27	0.0875 -0.666666657 -0.2727273 0.462962963 0.123529412 -0.20769231 -0.20769231 -0.02048390 -0.133757862 0.224476298 -0.024476298 -0.024476298 -0.024476298 -0.024476298 -0.024476298 -0.024476298 -0.024476298 -0.024476298 -0.024476298 -0.0244783 -0.047328244 -0.791366906 -0.543859849 -0.231404959 -0.231404959 -0.231404959 -0.231404959 -0.23444783 -0.552272727 -0.505714285 -0.43034778 -0.352272727 -0.505714285 -0.4303478 -0.352272727 -0.555714285 -0.4303478 -0.3522702727 -0.555714285 -0.4303478 -0.3522702727 -0.555714285 -0.43044783 -0.352290233 -0.337040205 -0.33704020

7 of 8 KMPO Total Screenines

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#### AM PK HR Screenline Validation 2010 KMPO BaseDRAFT Final 12-10-12.ver

Calibrated AM Model 12-10-12 by KMPO

I 90 Ramp @ Spokane St EB On	1158	700	466	717	703	704	461	-5	-0.010729614
1 90 Ramp @ Seltice Way EB On	860	700	361	749	726	712	436	75	0.207756233
SR 90 @ Pleasant View Rd	795	700	312	786	752	719	357	45	0.144230769
SR 90 @ Pleasant View Rd EB Off	787	700	285	785	751	752	412	127	0.445614035
1 90 Ramp @ NW Blvd/Ramsey EB Off	2557	700	996	866	826	843	774	-222	-0.222891566
1 90 Ramp @ NW Blvd/Ramsey EB On	790	700	305	892	843	844	268	-37	-0.121311475
1 90 Ramp @ US 95 EB Off	1726	700	648	12707	847	859	610	-38	-0.058641975
190 Ramp @ US 95 EB On Ramp	528	800	194	915	859	849	311	117	0.603092784
1 90 Ramp @ 3rd/4th St EB On	353	700	134	919	861	862	181	47	0.350746269
1 90 Ramp @ SH 41 EB Off	1050	700	407	12739	10742	731	203	-204	-0.501228501
1 90 Ramp @ 23rd St EB On	195	700	73	8818	9011	968	.117	44	0.602739726
1 90 Ramp @ SH 41 EB On	1493	700	586	10250	9709	736	642	56	0.095563140
1 90 Ramp @ 3rd/4th St EB Off	1247	700	520	10408	860	9788	527	7	0.013461538
1 90 Ramp @ 15th St EB On	177	800	68	10428	9795	912	120	52	0.764705882
1 90 Ramp @ 15th St EB Off	596	700	241	10430	885	9796	248	7	0.029045643
1 90 Ramp @ 23rd St (One Way) EB Off	625	800	239	10758	947	9948	166	-73	+0.305439331
Totals	15635		6114				6064	-50	-0.008177952
Westbound		18 F	8	8 8			0.000		
190 Ramp @ Spokane St WB On	1551	700	639	684	679	677	459	-180	-0.281690141
1 90 Ramp @ Spokane St WB Off	574	800	232	720	705	679	377	145	0.625
1 90 Ramp @ Seltice Way WB Off	603	800	234	729	713	711	197	-37	-0.158119658
1 90 Ramp @ SH 41 WB On	1667	700	623	731	714	733	549	-74	-0.118780096
SR 90 @ Pleasant View Rd WB On	935	600	335	737	718	750	441	106	0.316417910
SR 90 @ Pleasant View Rd WB Off	873	700	315	740	720	718	676	361	1.146031746
1 90 Ramp @ NW Blvd/Ramsey WB On	1495	700	570	869	828	827	803	233	0.408771930
1 90 Ramp @ NW Blvd/Ramsey WB Off	926	700	437	896	845	828	209	-228	-0.521739130
1 90 Ramp @ US 95 WB On	1151	800	431	900	848	846	342	-89	-0.206496520
1 90 Ramp @ US 95 WB Off	874	700	316	904	850	848	433	117	0.370253165
1 90 Ramp @ 3rd/4th St WB On	1164	700	452	.907	853	852	567	115	0.254424779
1 90 Ramp @ 3rd/4th St WB Off	505	700	201	923	863	853	140	-61	-0.303482587
1 90 Ramp @ 23rd St WB On	677	700	275	1059	964	948	206	-69	-0.250909091
1 90 Ramp @ 23rd St WB Off	202	700	83	1061	965	964	83	0	0.00000000
1 90 Ramp @ 15th St WB Off to Hazel	124	700	55	8814	911	9009	5	-50	-0.909090909
1 90 Ramp @ SH 41 WB Off	866	800	326	10422	737	9792	399	73	0.223926380
1 90 Ramp @ 15th St WB On	1314	700	558	10432	9797	878	506	-52	-0.093189964
Totals	15501		6082				6392	310	0.050970076

8 of 8 KMPO Total Screenines

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#### AM PK HR Screenline Validation 2010 KMPO BaseDRAFT Final 12-10-12.ver

Calibrated AM Model 12-10-12 by KMPO

	Peak Actual Directional	Peak Modeled	Modeled - Actual AM Peak	((Medeled - Actual) / Actual	Peak Actual Bi-	Peak Modeled Bi-	Peak Volume -	- Actual) / Actual Bi-	Allowable	Within Allowable
SBNB Screenlines Screenlines	Count	Directional	Count	AM Peak Count)*100	Directional	Directional	Actual Bi-	Directiona	Der TMIP	Deviation?
Spokane River Crossing Screenline #1		1			Spokane Ri	ver Crassing	Screenline			Lie many mark
Southbound	704	1291	587	83	1531	2273	742	48,46506	63	Y
Northbound	827	982	155	19	O-H O	x effect	1	1000000	1000 - C	
Seltice Screenline # 2 Southbound	2202	2336	134	6	Settice Scre 3824	4334	510	13	61	
Northbound	1622	1998	376	23	302.4	4004	510	12	01	
Harrison Ave Screenline # 3					Harrison Av	e Screenline	-			
Southbound	1258	1321	63	5	2519	2473	-46	-2	63	Y
Northbound	1261	1152	-109							
Appleway Ave/Best Screenline # 4	100.4	2397	0.2554		Appleway A	ve/Best Scr	enline		61	
Southbound Northbound	1964	1675	433 254		3385	4072	687	20	61	Y
Seltice Way/Mullan Rd/Kathleen Screenline #	1961	10/5	104	10	Settice Way	/Mullan RdA	Cathleen			
Southbound	7044	6892	+152	-2	11855	12059	204	2	53	Y
Northbound	4811	5167	356	2 7	and the second sec		9		197 H	
Poleline Rd Screenline # 6		j.			Poleline Rd 10059	Screenline	1	11 17	3	
Southbound	6124	5889	-235		10059	9842	-217	-2	55	Y
Northbound Dealedo Ref. Sectore line # 7	3935	3953	18	0	Desirie Dat	Screenline	5			
Prairie Rd. Screenline # 7 Southbound	4804	6026	222	5		8512	870	11	56	v
Northbound	2838	3495	648	23	1042	0012	ore			
Hayden Ave Screenline # 8					Hayden Ave	Screenline	6 × 5	1		1
Southbound	1066	926	-140	-13			-13	-1	64	Y
Northbound	802	729	127	21	and the second				G	
Lancaster Rd. Screenline # 9	1541	1410	101		Lancaster F		10	11	63	v
Southbound Northbound	1541	1410	-131 399	.9	2349	2617	268	11	02	- A
SH 53 - US 95 Screenline # 10	305	120/	302	49	SH 53 . 119	95 Screenlin	10			
Southbound	1432	1004	-428	-30	2603	2073	-530	-20.3611	63	Y
Northbound	1171	1069	-102	-9	1				8	
Twin Lakes Nat. Forest Screenline # 11		1	00041		Twin Lakes	Nat. Forest	Screenline		0	9
Southbound	1169	1160	.9	-1	1892	2256	364	19	63	Y
Northbound US 95 to SH 3 Screenline # 12	723	1096	373		110.05 10.01	13 Screenlin			<u>s</u> .	
Southbound	660	764	104	16		1314	91	7	64	Y
Northbound	563	550	+13	-2	166.5	1014	21		0	
SH 93 to LaTour Creek Screenline # 13		1 2 2	1.000		SH 93 to La	Tour Creek	Rd Screenli	ne		
Southbound	193	541	348	180	591	943	352	60	64	Ŷ
Northbound	398	402	-4	- 1					0	<u> </u>
Spirit Lake/Pend O'Reille Screenline # 14	869	934	65			Pend O'Reill		e #12		
Southbound	614	727	113	10	1483	1661	178	12	64	<u>y</u>
EB/WB Screenlines Screenlines				((Modeled - Actual) / Actual F	Total AM P	Total AM P	Total AM F	((Modeled	% Allowab	Allowable Dev
Pleas ant View Rd. Screenline # 15					Pleasant V	iew Rd. Sci	reenline			
Eastbound	1020	868	-152	-15	2534	3328	794	31.33386	62	Y
Westbound	1514	2460	946	52			(			
McGuire Rd. Screenline # 16 Easthound	877	916	39			Screenline	709	12.9	22	1.00
Westbound	1031	1701	670		1900	2617	709	37	02	1
Chase Rd. Screenline # 17	1001	1701	010		Chase Rd.	Screenline				
Eastbound	910	805	- 105	-12	Chase Rd. 1619	1994	375	23	63	Y
Westbound	709	1189	480	68	Second Second	and the second second	;		9	
Spokane St. Screenline # 18		1		- 72	Spokane St	Screenline	8		1	5
E as thound	1188	1012	-176	.15	2239	2363	124	6	63	Y
Westbound Idaho St Screenline # 19	1051	1351	300	23	Idaho St. S.	randina			<u></u>	-
Easthound	1263	1014	-249	.20	2131	2127	-4	0	63	Y
Westbound	868	1113	-245	28			-			_
Greensferry Screenline # 20		and the second			Greensferry	Rd. Screen	ine			
Easthound	2103	2098	-6						100	
Westbound	2015	2129		0	4118	4227	109	3	61	Ŷ
SH 41 Screenline # 21		6160	114	6			109	3	61	Y
Eastbound	2024	200	1907.5	6	SH 41 Scre	enline	109	3		Y
Westbound	2931	2527	-404	-14	SH 41 Scre		-604	3		Y Y
Westbound Huetter Rd Screenline // 22	2931 1921	2527 1721	1907.5	6	SH 41 Scre	enline 4248	-804		61	Y
Huetter Rd Screenline # 22 Eastbound	1522	2527 1721 890	-404 -200 -632		SH 41 Scre 4852	enline 4248	109	3 •12.4485 •7 56366	61	Y Y Y
Huetter Rd Screenline // 22 Eastbound Westbound	2931 1921 1522 1109	2527 1721	-404	-14	SH 41 Scre 4852 Huetter Rd. 2631	enline 4248 Screenline 2432	-804		61	Y Y Y
Huetter Rd Screenline # 22 Eastbound Westbound Ramsuy Rd Screenline # 23	1522 1109	2527 1721 890 1542	-404 -200 -632 433	6 .14 .40 .42 .39	SH 41 Scre 4852 Huotter Rd. 2631 Ramsey Rd	enline 4248 Screenline 2432 Screenline	-60 <b>4</b> -199	-7 56366	61 63	Y Y Y
Huetter Rd Screenline # 22 Eastbound Westbound Ramsey Rd Screenline # 23 Eastbound	1522 1109 3876	2527 1721 890 1542 3256	-404 -200 -632 433 -620	6 .14 .40 .42 .39	SH 41 Scre 4852 Huotter Rd. 2631 Ramsey Rd	enline 4248 Screenline 2432	-804		61 63	Y Y Y Y
Huetter Rd Screenline # 22 Eastbound Westbound Ramsuy Rd Screenline # 23	1522 1109	2527 1721 890 1542	-404 -200 -632 433	6 .14 .40 .42 .39	SH 41 Scre 4852 Huotter Rd. 2631 Ramsey Rd	enline 4248 Screenline 2432 Screenline 6358	-60 <b>4</b> -199	-7 56366	61 63	Y Y Y
Huetter Rd Screenline # 22 Easthound Westbound Ramsey Rd Screenline # 23 Easthound Westbound US 95 Screenline # 24	1522 1109 3876	2527 1721 890 1542 3256 3102 3953	-404 -200 -632 433 -620	-14 -14 -10 	SH 41 Scre 4852 Huetter Rd. 2631 Ramsey Rd 6801 US 95 Scre	enline 4248 Screenline 2432 Screenline 6358	-60 <b>4</b> -199	-7 56366	61 63 58	Y Y Y Y
Huetter Rd Screenline # 22 Earshound Westbound Ramsey Rd Screenline # 23 Earshound Westbound US 95 Screenline # 24 Earshound Westbound	1522 1109 3876 2925	2527 1721 890 1542 3256 3107	-404 -200 -632 -433 -620 177	-14 -14 -10 	SH 41 Scre 4852 Huetter Rd. 2631 Ramsey Rd 6801 US 95 Scre 7577	enline 4248 Screenline 2432 Screenline 6358 enline 9081	-604 -199 -443 1504	-7 56366 -6.51375	61 63 58	Y Y Y Y
Huetter Ref Screemline # 22 E serbound Westbound Ramsey Ref Screenline # 23 E serbound Westbound US 95 Screenline # 24 E as thound West bound West Side KMPO Screenline # 25	1522 1109 3876 2925 3731	2527 1721 890 1542 3256 3102 3963 5128	-404 -200 -632 433 -620 177 -222 1282	6 	SH 41 Scre 4852 Huetter Rd, 2631 Rampey Rd 6801 US 95 Scre 7577 West Side H	enline 4248 Screenline 2432 Screenline 6358 6358 9081 9081 MPO Scree	109 -504 -199 -443 1504	-7 56366 -6.51375 19.84954	61 63 58 58	Y Y Y Y
Huetter Rd Screenline # 22 Eastbound Mesthound Ramsey Rd Screenline # 23 Eastbound Westbound US 95 Screenline # 24 Eastbound Westbound Westbound Westbound Westbound Screenline # 25 Eastbound	1522 1109 3876 2925 3731 3846 527	2527 1721 890 1542 3256 3102 3953 5128 705	-404 -200 -632 433 -620 177 222 1282 178	6 	SH 41 Scre 4852 Huetter Rd, 2631 Rampey Rd 6801 US 95 Scre 7577 West Side H	enline 4248 Screenline 2432 Screenline 6358 6358 9081 9081 MPO Scree	-604 -199 -443 1504	-7 56366 -6.51375	61 63 58 58	Y Y Y Y Y
Hudtt Rd Screenline # 22 Fastbound Westbound Ramsey Rd Screenline # 23 Fastbound US 95 Screenline # 24 Eastbound Westbound Westbound West Side KMPO Screenline # 25 Fastbound Westbound	1522 1109 3876 2925 3731	2527 1721 890 1542 3256 3102 3963 5128	-404 -200 -632 433 -620 177 -222 1282	6 	SH 41 Scre 4852 Huotter Rd. 2631 Ramsey Rd 6801 US 95 Scre 7577 YVest Side H 1348	enline 4248 Screenline 2432 Screenline 6358 enline 9081 MPO Scree 1752	-504 -199 -443 1504 -109 -443	-7 56366 -6.51375 19.84954	61 63 58 58	Y Y Y Y Y
Huetter Rd Screenline # 22 Eastbound Ramsey Rd Screenline # 23 Eastbound US 95 Screenline # 24 Eastbound Westbound Westbound Westbound Westbound Eastbound Westbound Eastbound Eastbound	1522 1109 3876 2925 3731 3846 527	2527 1721 890 1542 3256 3102 3953 5128 705	-404 -200 -632 433 -620 177 222 1282 178	6 	SH 41 Scre 4852 Huotter Rd. 2631 Ramsey Rd 6801 US 95 Scre 7577 West Side H 1348 East Side K	enline 4248 Screenline 2432 Screenline 6358 enline 9081 MPO Scree MPO Scree	-504 -199 -443 1504 -109 -443	-7 56366 -6.51375 19.84954 29.97033	61 63 58 58 58 58	Y Y Y Y Y Y
Hudt Rd Screenline # 22 Eastbound Mesthound Ramsey Rd Screenline # 23 Eastbound US 95 Screenline # 24 Eastbound Westbound Westbound Westbound Eastbound Westbound East Side KMPO Screenline # 25 Eastbound Westbound East Side KMPO Screenline # 26 East Side KMPO Screenline # 26 East Side KMPO Screenline # 26 East Side KMPO Screenline # 26	1622 1109 3876 2925 3731 3846 527 821	2527 1721 890 1542 3256 3102 3953 5128 705 1047	-404 -200 -452 433 -620 177 222 1282 1782 178 226	6 	SH 41 Scre 4652 Huetter Rd. 2631 Rampey Rd 6601 US 95 Scre 7577 West Side H 1340 East Side K 1221	enline 4248 Screenline 2432 Screenline 6358 enline 9081 1752 MPO Scree 1304	409 4804 -199 -443 1504 404 404 83	-7 56366 -6.51375 19.84954	61 63 58 58 58 58	Y Y Y Y Y Y
Hudtt Rd Screenline # 22 Eartbound Westbound Ramsey Rd Screenline # 23 Eartbound US 95 Screenline # 24 Eartbound Westbound West Side KMPO Screenline # 25 Eartbound Eart Side KMPO Screenline # 26 Eartbound Westbound Westbound Government Way Screenline # 27	1522 1109 3876 2925 3731 3846 527 821 612	25.27 1721 890 1542 3256 3102 3953 5128 705 1047 563 741	-404 -200 -4532 -453 -453 -4520 -177 -222 -1282 -178 -228 -49 -49 -132	6 	SH 41 Scre 4852 Huetter Rd. 2631 Ramsey Rd 6601 US 95 Scre 7577 West Side H 1348 East Side K 1221 Goremmen	enline 4248 Screenline 2432 Screenline 6368 9081 MPO Scree 1752 MPO Scree 1304 t Way Scree	109 -804 -199 -443 1504 -1504 -1014 -100 -1014 -	-7 56366 -6.51375 19 84954 29 97033 6.797707	61 63 58 66 63	Y Y Y Y Y Y
Huetter Rd Screenline # 22 Eastbound Mestbound Ramsey Rd Screenline # 23 Eastbound US 95 Screenline # 24 Eastbound Westbound Westbound Eastbound Westbound East Side KMPO Screenline # 25 EastBound Westbound East Side KMPO Screenline # 26 East Subound Westbound Government Way Screenline # 27 Eastbound	1522 1109 3876 2925 3731 3846 527 821 612 609 2620	2527 1721 890 1542 3256 3100 3953 5128 705 1047 563 741 741	-404 -200 -402 433 -622 177 -222 1282 -178 -226 -49 -49 -132 -132 -134	6 	SH 41 Scre 4852 Huetter Rd. 2631 Ramsey Rd 6601 US 95 Scre 7577 West Side H 1348 East Side K 1221 Goremmen	enline 4248 Screenline 2432 Screenline 6358 enline 9081 1752 MPO Scree 1304	109 -804 -199 -443 1504 -109 -404 -404 	-7 56366 -6.51375 19.84954 29.97033	61 63 58 66 63	Y Y Y Y Y Y
Hudt Rd Screenline # 22 Fastbound Westbound Ramsey Rd Screenline # 23 Fastbound US 95 Screenline # 24 Eastbound Westbound West Side KMPO Screenline # 25 Fastbound West Side KMPO Screenline # 26 Eastbound Westbound Government Way Screenline # 27 Fastbound Westbound Westbound Westbound Westbound Screenline # 27 Fastbound	1522 1109 3876 2925 3731 3846 527 821 612	25.27 1721 890 1542 3256 3102 3953 5128 705 1047 563 741	-404 -200 -4532 -453 -453 -4520 -177 -222 -1282 -178 -228 -49 -49 -132	6 	SH 41 Scre 4652 Huetter Rd, 2631 Ramsey Rd 6601 US 95 Scre 7577 West Side H 1348 East Side K 1221 Gorenmen 6127	enline 4248 Screenline 2432 Screenline 6358 enline 9081 MPO Scree 1752 MPO Scree 1304 t Way Scree 7433	109 -804 -199 -443 1504 -1504 -1014 -100 -1014 -	-7 56366 -6.51375 19 84954 29 97033 6.797707	61 63 58 66 63	Y Y Y Y Y Y Y
Huetter Rd Screenline # 22 Eastbound Ramsey Rd Screenline # 23 Eastbound US 95 Screenline # 24 Eastbound Weistbound Weistbound East Mound Weistbound East Side KMPO Screenline # 25 EastBound Weistbound East Side KMPO Screenline # 26 EastBound Weistbound Government Way Screenline # 27 Eastbound Weistbound Government Way Screenline # 27 Eastbound	1622 1109 3876 2925 3731 3846 821 612 609 2620 3507	2527 1721 890 1542 3255 3102 3953 5128 705 1047 563 741 2744 4669	-404 	6 	SH 41 Scre 4052 Huetter Rd. 2631 Ramsey Rd 6601 US 95 Scre 7577 West Side H 1348 East Side K 1221 Governmen 6127	enline 4248 Screenline 2432 Screenline 6358 9081 MPO Screet 1304 tWay Screet 7433 Screenline	109 -504 -199 -443 -1504 -150	-7 56366 6.51375 19.84954 29.97033 6.797707 21.31549	61 63 58 66 63 64 57	Y Y Y Y Y Y Y
Hudt Rd Screenline # 22 Eartbound Westbound Ramsey Rd Screenline # 23 Eartbound US 95 Screenline # 24 Eartbound Westbound Westbound West Side KMPO Screenline # 25 Fastbound Eart Side KMPO Screenline # 26 Eartbound Government Way Screenline # 27 Eartbound Westbound Westbound 190 Ramps Screenline # 28 EartBound Eart Side KMPO Screenline # 28 Eartbound	1522 1109 3876 2925 3731 3846 527 821 612 609 2620	2527 1721 890 1542 3256 3100 3953 5128 705 1047 563 741 741	-404 -200 -402 433 -622 177 -222 1282 -178 -226 -49 -49 -132 -132 -134	6 	SH 41 Scre 4052 Huetter Rd. 2631 Ramsey Rd 6601 US 95 Scre 7577 West Side H 1348 East Side K 1221 Governmen 6127	enline 4248 Screenline 2432 Screenline 6358 enline 9081 MPO Scree 1752 MPO Scree 1304 t Way Scree 7433	109 -804 -199 -443 1504 -1504 -1014 -100 -1014 -	-7 56366 -6.51375 19 84954 29 97033 6.797707	61 63 58 66 63 64 57	Y Y Y Y Y Y Y Y
Huetter Rd Screenline # 22 Eastbound Ramsey Rd Screenline # 23 Eastbound US 95 Screenline # 24 Eastbound Westbound Westbound EastBound Westbound East Side KMPO Screenline # 25 EastBound Westbound East Side KMPO Screenline # 26 EastBound Westbound Government Way Screenline # 27 Eastbound Westbound Government # 27 Eastbound Screenline # 28 Eastbound	1522 1109 3876 2925 3731 3846 527 821 609 2620 3507 6114 608	2527 1721 890 1542 3256 3102 3953 5128 705 1047 563 744 4669 6064	-404 	6 	SH 41 Scre 4652 Huetter Rd. 2631 Ramsey Rd 6601 US 95 Scre 7577 West Side H 124 Goremmen 6127 190 Ramps 12196	enline 4248 Screenline 2432 Screenline 5568 9061 MPO Screet 1752 MPO Screet 1754 WPO Screet 1304 Vay Screet 7433 Screenline 12455	109 -504 -199 -443 1504 1504 1504 83 -106 83 -1306 260	7 56366 -6.51375 19.84954 29.97033 6.797707 21.31549 2.131847	61 63 58 56 56 56 57 57 57	Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y
Huetter Ref Screenline # 22 Eastbound Ramsey Ref Screenline # 23 Eastbound Westbound Westbound Westbound Westbound Westbound Eastbound Westbound Eastbound Westbound East Side KMPO Screenline # 25 Eastbound Westbound East Side KMPO Screenline # 26 East Side KMPO Screenline # 27 East Side Screenline # 27 Eastbound Westbound Government Way Screenline # 27 Eastbound Westbound Told Screenline # 28 Eastbound Westbound Told Screenlines All Korth. South Screenlines	1622 1109 3876 2925 3731 3846 527 821 612 609 2620 3507 6114 6114 6062 Total AM Pe	2527 1721 890 1542 3255 3102 3953 5128 705 1047 563 741 2744 4699 6064 6392 Total AM Pi	-404 	6 	SH 41 Scre 4852 Huotter Rd. 2631 Rampey Rd 6601 US 95 Scre 7577 West Side H 1221 Governmen 6127 190 Ramps 120 Ramps 120 Ramps 121 Ramps	enline 4248 Screenline 2432 Screenline 6358 enline 9081 MPO Scree 1304 KWay Scree 7433 Screenline 12456 Total AM P/ Screenline	109 -504 -199 -443 1504 1504 1504 83 -106 83 -1306 260	-7.56366 6.51375 19.84954 29.97033 6.797707 21.31549 2.131847 ((Modeled	61 63 58 56 56 56 57 57 57	Y Y Y Y Y Y Allowable Dev
Hudt Rd Screenline # 22 Fastbound Westbound Ramsey Rd Screenline # 23 Fastbound US 95 Screenline # 24 Eastbound Westbound Westbound West Side KMPO Screenline # 25 Fastbound Westbound Screenline # 26 Eastbound Westbound Government Way Screenline # 27 Fastbound Westbound US Screenline # 28 Eastbound Screenline # 28 Eastbound Tour Screenline # 28 Eastbound 190 Ramps Screenline # 28 Eastbound Total Screenlines Eastbound Total Screenlines All North South Screenlines	1522 1109 3876 2925 3731 3846 527 821 612 609 2620 3507 5114 602 507 5114 802 200 3507 5114 802 802 503 7030	2527 1721 890 1542 3296 3102 20 5120 705 5130 7047 503 7044 689 8064 4689 8064 4689 8064 4689 8064 98064 7744	-404 -300 -632 -433 -620 -177 -222 -1382 -178 -228 -43 -122 -124 -132 -124 -132 -50 -310 -300 -310 -300 -81	6 	SH 41 Scre 4652 Haetter Rd. 2631 Ramsey Rd 6601 US 96 Scre 75/7 West Side H 1348 East Side K 1221 Goremmen 6127 Total AM P: North-South 55624	enline 4248 Screenline 2432 Screenline 6356 MPO Screet 1752 MPO Screet 1754 Way Screet 1304 Total AM P/ Screenline 56084	-804 -804 -199 -443 1504 -199 -443 1504 -100 83 -1006 -1006 -260 Total AM F 3460	7 56366 -6.51375 19.84954 29.97033 6.797707 21.31549 2.131847	61 63 58 56 56 56 57 57 57	Y Y Y Y Y Y X Allowable Dev Y
Huetter Rd Screenline # 22 Eastbound Barbound Ramsey Rd Screenline # 23 Eastbound US 85 Screenline # 24 Eastbound Weistbound East Side KMPO Screenline # 25 Eastbound East Side KMPO Screenline # 26 Eastbound Weistbound East Side KMPO Screenline # 26 EastBound Weistbound Government Way Screenline # 27 Eastbound Weistbound Total Screenline # 28 Eastbound Mitschound Total Screenlines. All Rorth.South Screenlines Southbound	1622 1109 3876 2925 3731 3846 527 821 612 609 2620 2620 3507 6114 6114 6062 Total AM Pe	2527 1721 890 1542 3255 3102 3953 5128 705 1047 563 741 2744 4699 6064 6392 Total AM Pi	-404 	6 	SH 41 Scre 4852 Haotter Rd. 2631 Rampe y Rd 6801 US 95 Scre 7577 West Side I 1348 East Side K 1221 Gore minime f127 120 Ramps 12196 Total AM Pi North-South S2624 All East W	enline 4248 Screenline 2432 Screenline 6558 MPO Scree 1752 MPO Scree 1734 tWay Scree 7433 Screenline 12466 Total AM P. Screenline 12468 Screenline 12468	109 -804 -199 -443 1504 1504 1504 83 -1106 83 	-7.56366 6.51375 19.84954 29.97033 6.797707 21.31549 2.131847 ((Modeled	61 63 58 56 56 56 57 57 57	Y Y Y Y Y Y Allowable Dev
Hudt Rd Screenline # 22 Eartbound Westbound Ramsey Rd Screenline # 23 Eartbound US 95 Screenline # 24 Eartbound Westbound Westbound Westbound Kest Side KMPO Screenline # 25 Eartbound Eart Side KMPO Screenline # 26 Eartbound Government Way Screenline # 27 Eartbound Westbound Screenline # 28 Eart Side KMPO Screenline # 27 Eartbound 190 Ramps Screenline # 28 Eartbound 190 Ramps Screenline # 28 Eartbound Total Screenlines All North-South Screenlines Southbound North-bound All Eart West Screenline	1522 1109 3876 2925 3731 3846 527 821 612 609 2620 3507 5114 602 200 3507 5114 602 200 3507 5114 602 200 3507 5114 602 502 503 502 503 503 503 503 503 503 503 503 503 503	2527 1721 890 1542 3296 3102 30953 5128 705 563 705 7047 563 7044 6392 7044 6392 7044 6392 7044 8064 8392 7044 8064 8392 7044 8064 8064 8074 8064 8074 8074 8074 8074 8074 8074 8074 807	-404 -300 -652 433 -620 177 222 1282 -178 -228 -49 -132 -124 -132 -132 -132 -132 -132 -132 -132 -132	6 	SH 41 Scre 4652 Houtter Rd. 2631 Ramsey Rd 6601 US 95 Scre 7577 West Side H 1348 East Side K 1221 Gorennmen 6127 190 Rampe 12196 Total AM P. North-Sout 5524 All Lest-W 57302	enline 4248 Screenline 2432 Screenline 5558 Screenline 9081 1752 MPO Screenline 12456 Total AM PI Screenline 12456 Total AM PI Screenline 12456	-804 -804 -199 -443 1504 -199 -443 1504 -100 83 -1006 -1006 -260 Total AM F 3460	-7.56366 6.51375 19.84954 29.97033 6.797707 21.31549 2.131847 ((Modeled	61 63 58 56 56 56 57 57 57	Y Y Y Y Y Y Altowable Dev Y Y
Huette Rd Screenline # 22 Eartbound Westbound Ramsey Rd Screenline # 23 Eartbound Westbound Westbound Westbound Westbound Eartbound Westbound Eart Side KMPO Screenline # 25 Eartbound Westbound Eart Side KMPO Screenline # 26 Eart Side KMPO Screenline # 27 Eart Side KMPO Screenline # 27 Eart Side KMPO Screenline # 27 Eart Side KMPO Screenline # 27 Eartbound Westbound 190 Ramps Screenline # 28 Eartbound Westbound 104 Ramps Screenlines All Korth South Screenlines Southbound Northbound All Eart Meet Screenline Eartbound	1522 1109 3876 2925 3731 3846 527 821 612 609 2620 3507 5114 602 507 5114 802 200 3507 5114 802 802 503 7030	2527 1721 890 1542 3296 3102 20 5120 705 5130 7047 503 7044 689 8064 4689 8064 4689 8064 4689 8064 98064 7744	-404 -300 -632 -433 -620 -177 -222 -1382 -178 -228 -43 -122 -124 -132 -124 -132 -50 -310 -300 -310 -300 -81	6 	SH 41 Scre 4852 Haotter Rd. 2631 Rampe y Rd 6801 US 95 Scre 7577 West Side I 1348 East Side K 1221 Gore minime f127 120 Ramps 12196 Total AM Pi North-South S2624 All East W	enline 4248 Screenline 2432 Screenline 5558 Screenline 9081 1752 MPO Screenline 12456 Total AM PI Screenline 12456 Total AM PI Screenline 12456	109 -804 -199 -443 1504 1504 1504 83 -1106 83 	-7.56366 6.51375 19.84954 29.97033 6.797707 21.31549 2.131847 ((Modeled	61 63 58 56 56 56 57 57 57	Y Y Y Y Y Y Allowable Dev Y Y
Hudt Rd Screenline # 22 Eartbound Westbound Ramsey Rd Screenline # 23 Eartbound US 95 Screenline # 24 Eartbound Westbound Westbound Westbound Kest Side KMPO Screenline # 25 Eartbound Eart Side KMPO Screenline # 26 Eartbound Government Way Screenline # 27 Eartbound Westbound Screenline # 28 Eart Side KMPO Screenline # 27 Eartbound 190 Ramps Screenline # 28 Eartbound 190 Ramps Screenline # 28 Eartbound Total Screenlines All North-South Screenlines Southbound North-bound All Eart West Screenline	1622 1109 3876 2995 2995 3731 3846 860 2609 2600 2600 2600 2000 507 6114 8002 7010 8002 7010 8002 7010 8002 7010 8002 8002 8002 8002 8002 8002 8002 8	2527 1721 890 1542 3102 3953 5128 705 503 705 705 705 705 704 4699 5064 5392 7044 8064 5392 7044 8064 5392 7044 8064 8064 8064 8064 8064 8064 8064 8	-404 	6 -14 -14 -10 -10 -12 -33 -16 -6 -6 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	SH 41 Scre 4652 Houtter Rd. 2631 Ramsey Rd 6601 US 95 Scre 7577 West Side H 1348 East Side K 1221 Gorennmen 6127 190 Rampe 12196 Total AM P. North-Sout 5524 All Lest-W 57302	enline 4248 Screenline 2432 Screenline 6558 MPO Scree 1752 MPO Scree 1754 MPO Scree 1754 Screenline 12456 Total AM P/ Screenline 12456 Total AM P/ Screenline 12456 Screenline 12456 Screenline 12456 Screenline 12456 Screenline	109 -804 -199 -443 1504 1504 1504 83 -1106 83 	-7.56366 6.51375 19.84954 29.97033 6.797707 21.31549 2.131847 ((Modeled	61 63 58 56 56 56 57 57 57	γ           γ

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# Appendix 1E: 2010 KMPO Model PM Peak Hour Screenline Validation Spreadsheets



KMPO PM Total Screenline with 2007/2008 Count Locations Grown to 2010 Counts

PM PK HR Screenline Validation 2010 KMPO 2010 Base Model DRAFT Final 12-5-12.ver

Calibrated Model 12-5-12 by KMPO

### SOUTH - NORTH SCREENLINES - KMPO

- KMPO									
Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Spokane River Crossing Screen	line #1		2				2 9		
Southbound									
Spokane St.	1102	1700	400	13273	818	11026	305	-95	-0.2375
US 95 @ Spokane River Bridge	1818	1600	637	13617	11201	10871	797	160	0.251177394
Northwest Blvd South of US 95	2764	1600	1017	13909	11337	896	784	-233	-0.229105211
Totals	2920		1037				1102	65	0.06268081
Northbound			·						
Spokane St.	595	1500	413	13273	11026	818	433	20	0.04842615
US 95 @ Spokane River Bridge	1780	1500	630	13617	10871	11201	991	361	0.573015873
Northwest Blvd South of US 95	2826	1500	983	13909	896	11337	1004	21	0.021363174
Totals	2375		1043	1			1424	381	0.365292426
Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Seltice Screenline #2			2			î î			
Southbound							6	1	
Ross Point Rd	1084	1700	403	9139	734	9272	435	32	0.079404467
Ramsey Rd	1979	1500	1058	10413	843	9789	1173	115	0.108695652
Huetter Rd	354	1700	122	10473	774	9814	223	101	0.827868852
Altas Rd	928	1600	331	10477	9388	9815	441	110	0.332326284
Cedar St	594	1700	220	13219	10995	790	179	-41	-0.186363636
Seeley Rd	114	1600	48	12719	793	10733	46	-2	-0.041666667
Totals	5053		2182				2497	315	0.14436297
Northbound						-			
Ross Point Rd	970	1600	355	9139	9272	734	321	-34	-0.095774648
Ramsey Rd	3125	1600	1111	10413	9789	843	1775	664	0.597659766
Huetter Rd	565	1700	208	10473	9814	774	380	172	0.826923077
Atlas Rd	1082	1600	409	10477	9815	9388	664	255	0.623471883
Cedar St	349	1700	123	13219	790	10995	171	48	0.390243902
Seeley Rd	110	1600	46	12719	10733	793	62	16	0.347826087
Totals	6201		2252	1		1	3373	1121	0.497779751
Location Harrison Ave. Screenline #3	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Southbound								-	
3rd St	1666	1500	597	977	901	917	482	-115	-0.192629816
7th St	460	1500	161	13875	904	11320	166	5	0.031055901
11th St	254	1700	88	986	907	920	44	-44	-0.5
15th St	2061	1700	790	990	910	921	520	-270	-0.341772152
Government Way	1056	1600	370	8963	899	9144	364	-6	-0.016216216
Totals	5497		2006		500		1576		-0.214356929
Northbound						1			
7th St	482	1500	185	13875	11320	904	111	-74	-0.4
11th St	247	1600	95	986	920	907	53	-42	-0.442105263
15th St	1450	1500	496	990	921	910	550	54	0.108870968
4th St	2551	1600	872	10854	9988	902	622	-250	-0.286697248
Government Way	1163	1600	404	13762	11267	9812	556	152	0.376237624
Totals	5893		2052				1892	-160	-0.07797271
						(m. 1997)			
Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
				Link #	From Node	To Node		Actual PM	Actual PM Peak

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KMPO Total Screenlines

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#### KMPO PM Total Screenline with 2007/2008 Count Locations Grown to 2010 Counts

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Government Way	1997	1700	705	12956	833	10830	1099	394	0.558865248
15th St	1333	1700	466	889	841	866	316	-150	-0.321888412
SR 95 (North by Haycraft)	3408	1700	1307	9429	814	9113	1209	-98	-0.074980872
Totals	6738		2478			1	2624	146	0.058918483
Northbound						833			
Government Way	2716	1600	952	12956	10830	833	1329	377	0.396008403
15th St	1382	1700	475	889	866	841	181	-294	-0.618947368
SR 95 (North by Haycraft)	1675	1700	1331	10844	9975	9984	1413	82	0.061607814
Totals	5773		2758				2923	165	0.059825961

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							-		
Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Seltice/Mullan Rd/Kathleen	Screenline #5								
Southbound				. current			a said		
Spokane St.	1454	1500	526	13788	658	11277	490	-36	-0.068441065
Idaho St.	1701	1500	593	13790	660	11278	560	-33	-0.055649241
Greensferry Rd	125	1600	53	668	664	683	168	115	2.169811321
SR 41	3777	1500	1300	13916	669	11340	967	-333	-0.256153846
Huetter Rd	291	1500	98	691	685	738	222	124	1.265306122
Altas Rd	673	1600	273	693	687	739	366	93	0.340659341
Ramsey Rd	4436	1600	1522	13448	689	11129	1003	-519	-0.340998686
4th St	953	1600	352	12931	10735	10813	254	-98	-0.278409091
15th St	1112	1600	393	711	698	716	402	9	0.022900763
Pleasant View Rd,	395	1500	145	8830	9017	647	533	388	2.675862069
US 95	4180	1600	1434	9557	691	9421	1287	-147	-0.10251046
Baugh Rd	304	1500	116	13224	10998	9015	166	50	0.431034483
Government Way	2307	1500	790	13820	10160	11292	710	-80	-0.101265823
Totals	21708		7595				7128	-467	-0.061487821
Northbound									
Spokane St.	2043	1700	743	13788	11277	658	883	140	0.188425303
Idaho St	2653	1600	962	13790	11278	660	897	-65	-0.067567568
Greensferry Rd	326	1600	125	668	683	664	253	128	1.024
SR 41	3902	1700	1356	13916	11340	669	901	-455	-0.335545723
Huetter Rd	522	1600	201	691	738	685	379	178	0.885572139
Atlas Rd	734	1600	291	693	739	687	505	214	0.735395189
Ramsey Rd	4303	1600	1481	13448	11129	689	1538	57	0.038487508
4th St	1299	1500	499	12931	10813	10735	424	-75	-0.150300601
15th St	1240	1700	452	711	716	698	270	-182	-0.402654867
Pleasant View Rd	664	1600	257	8830	647	9017	589	332	1.291828794
US 95	4055	1500	1396	12128	10486	10487	1447	51	0.036532951
Baugh Rd	389	1500	150	13224	9015	10998	134	-16	-0.106666667
Government Way	2647	1600	912	13820	11292	10160	874	-38	-0.041666667
Totals	24777		8825				9094	269	0.030481586

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Poleline Rd Screenline #6							[		
Southbound									
Pleasant View Rd	529	1600	189	496	544	595	533	344	1.82010582
Chase Rd.	539	1600	184	507	550	579	33	-151	-0.820652174
Spokane St	697	1600	238	13865	552	11315	267	29	0.121848739
Idaho St	1027	1600	354	13864	554	11314	257	-97	-0.274011299
Greensferry Rd.	332	120	113	520	558	583	75	-38	-0.336283186
SR41	2154	747	704	526	562	585	812	108	0.153409091
Ramsey Rd	1829	1500	652	536	569	590	550	-102	-0.156441718
Government Way	2126	1500	768	542	573	592	777	9	0.01171875
15th St	580	1600	199	548	577	594	113	-86	-0.432160804
Huetter Rd	334	1500	115	559	1100	587	219	104	0.904347826
US 95	3983	1500	1392	1671	571	615	1523	131	0.094109195
4th St	906	1500	317	13483	11142	9052	115	-202	-0.637223975
Atlas Rd	1029	1600	355	13855	9458	11309	499	144	0.405633803
Totals	16065		5580	1			5773	193	0.034587814
Northbound									
Pleasant View Rd	962	1600	335	496	595	544	589	254	0.758208955
Chase Rd	416	1500	144	507	579	550	73	-71	-0.493055556

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### KMPÓ PM Total Screenline with 2007/2008 Count Locations Grown to 2010 Counts

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Spokane St	1028	1700	382	13865	11315	552	482	100	0.261780105
Idaho St	1192	1700	435	13864	11314	554	381	-54	-0.124137931
Greensferry Rd	386	1700	137	520	583	558	91	-46	-0.335766423
SR41	2754	1010	952	526	585	562	890	-62	-0.06512605
Ramsey Rd	2646	1600	905	536	590	569	1017	112	0.123756906
Government Way	2242	1600	776	542	592	573	797	21	0.027061856
15th St	768	1700	270	548	594	577	82	-188	-0.696296296
Huetter Rd	505	1600	190	559	587	1100	351	161	0.847368421
US 95	4510	1600	1545	1671	615	571	1802	257	0.166343042
4th St	1128	1700	401	13483	9052	11142	221	-180	-0.448877805
Atlas Rd	1431	1600	508	13855	11309	9458	674	166	
Totals	19968		6980			2	7450	470	0.067335244

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Prairie Rd. Screenline #7									
Southbound					0				
Idaho Rd.	460	1600	170	13202	482	10986	168	-2	-0.011764706
Huetter Rd	553	1600	197	434	491	522	328	131	0.664974619
Ramsey Rd	1551	1600	666	13847	498	11305	548	-118	-0.177177177
US 95	3564	1500	1256	13885	500	11325	1489	233	0.185509554
Government Way	1554	1500	581	13796	502	11281	541	-40	-0.068846816
4th St	823	1600	305	452	504	512	208	-97	-0.318032787
Atlas Rd	880	1700	300	9330	496	9061	521	221	0.736666667
McGuire Rd	157	1700	56	13592	11190	11188	208	152	2.714285714
15th St	235	1500	82	10600	9878	513	61	-21	-0.256097561
Spokane St.	306	1700	120	10684	480	9911	92	-28	-0.233333333
Chase Rd.	331	1600	122	10686	478	9912	136	14	0.114754098
Greensferry Rd.	327	1600	116	10696	486	9917	121	5	0.043103448
SR 41	1856	1600	642	10698	488	9918	709	67	0.104361371
Totals	12597		4613				5130	517	0.112074572
Northbound									
idaho Rd.	470	1700	170	13202	10986	482	230	60	0.352941176
Huetter Rd	396	1600	147	434	522	491	351	204	1.387755102
Ramsey Rd	2104	1600	735	13847	11305	498	857	122	0.165986395
Government Way	2033	1600	701	13796	11281	502	683	-18	-0.025677603
4th St	1307	1700	483	452	512	504	246	-237	-0.49068323
Atlas Rd	1026	1600	357	9330	9061	496	437	80	0.224089636
McGuire Rd	80	1700	28	13592	11188	11190	247	219	7.821428571
15th St	343	1700	122	10600	513	9878	64	-58	-0.475409836
Spokane St.	270	1500	96	10684	9911	480	32	-64	-0.666666667
Chase Rd.	346	1600	122	10686	9912	478	128	6	0.049180328
Greensferry Rd.	299	1700	105	10696	9917	486	108	3	0.028571429
SR 41	2366	1600	839	10698	9918	488	829	-10	-0.011918951
US 95	4392	1700	1504	12162	10027	10491	1761	257	0.17087766
Totals	15432	11.00	5409				5973	564	0.10427066
	1	1	1						
Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume	Modeled - Actual PM Peak Count	Modeled-Actual / Actual PM Peak Count
Hayden Ave. Screenline #8	T IN TOTAL	- Thins	ovunt	Carlos W	. Join Hode		. can voidille	. cun oodint	vvun
Southbound								2	0
Chase Rd	155	1600	55	13941	411	11352	25	-30	-0.545454545
Idaho St	173	1700	68	313	411	1163	25	-30	-0.545454545
SR 41	173	1600	638	13861	412	1163	535	-39	-0.573529412
SK 41 Huetter Rd	1/91	1600	58	326	415	435	209		2.603448276
Huetter Kd Hauser Lake Rd north of SH 53	149	1700	70	13239	418	435	209	-54	-0.771428571
	1/4	1700	64	6343	413		10	-54	
Greensferry Rd	2622	1500	953	0343	413	446	921	-32	0.671875
Totals Northbound	2022		953				921	-32	-0.0335/81/4
Chase Rd	224	1600	79	13941	11352	411	70	-9	-0.113924051
Idaho St	224	1700	81	313	11352	411 412	70	-20	-0.113924051 -0.24691358
Idano St SR 41	2171	1/00	763	13861	1163	412	612	-20	-0.197903014
SR 41 Huetter Rd	2171	1600	89	326	435				1.415730337
nueller KO	208	1000	69	3/0	435	418	215	126	1.415/3033/

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126

1.415730337 -0.5859375

215

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Huetter Rd Hauser Lake Rd north of 53

326 13239

435

418 11006

89 128

1600 1600 1700

258 329



#### PM PK HR Screenline Validation 2010 KMPO 2010 Base Model DRAFT Final 12-5-12.ver

KMPO PM Total Screenline with 2007/2008 Count Locations Grown to 2010 Counts

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0.663157895 1700 Greensferry Rd 274 95 6343 446 413 158 63 Totals 3476 1235 1169 -66 -0.053441296 Modeled -Modeled-Actual / Modeled PM Actual PM PM Peak PM Peak Actual PM Peak Count Location PM Total From Node To Node Peak Volume Peak Count Time Link # Count Lancaster Rd. Screenline # 9 Southbound 1500 -49 -13 -1.000000000 Greensferry Rd 139 49 194 330 1144 Meyer Rd. 289 1600 104 13634 1093 11207 91 -0.125000000 Huetter Rd US 95 92 1600 9472 334 159 124 3 542857143 35 9412 9551 0.365605096 338 9418 1072 2177 1500 785 287 Government Way Rimrock Rd/Meadowwood Ln 373 1600 136 13442 339 11126 351 61 -75 0.551470588 120 42 41 -1 -0.023809524 -0.255813953 341 Strahorn Rd 1700 43 13461 11135 32 116 1279 English Point Rd 22 3328 1500 9000 357 -1.000000000 8 0 -8 Totals 1202 1456 254 0.211314476 Northbound 180 1600 61 194 1144 330 56 -0.081967213 Greensferry Rd -5 500 1700 185 13634 11207 1093 230 45 0.243243243 Meyer Rd. Huetter Rd 171 1600 63 9472 9412 334 129 66 1.047619048 US 95 3487 1700 1224 13638 9983 11210 1238 14 0.011437908 Government Way 536 1600 187 13442 11126 339 55 -132 -0.705882353 Rimrock Rd/Meadowwod Ln 95 1500 33 221 351 334 49 16 0.484848485 341 9000 Strahorn Rd 95 1500 33 13461 11135 -26 -0.787878788 English Point Rd 10 -10 24 1279 357 -1 000000000 0 5088 1764 -32 Totals -0.017817372 Modeled -Modeled-Actual / PM Peak PM Peak Modeled PM Actual PM Actual PM Peak Location PM Total Time Count Link # From Node To Node Peak Volume Peak Count Count SH 53 - US 95 Screenline # 10 Eastbound BNSF RR Bridge in Rathdrum 1904 1600 671 13898 263 11331 308 -363 -0.540983607 104 113 251 103 0.695945946 1500 269 271 Ramsey Rd 376 148 US 95 n/o SH53 1798 1500 677 1308 252 526 -151 0.223042836 11211 Govt Way e/o US95 126 1500 46 13643 300 62 16 0.347826087 Totals Westbound -0.256160830 4204 1542 1147 -395 BNSF RR Bridge in Rathdrum 1485 1500 514 13898 11331 263 278 -236 -0.459143969 Ramsey Rd 597 1500 210 104 269 1137 305 95 0.452380952 US 95 n/o SH53 11211 300 1600 1700 13654 13643 11215 11211 609 66 2687 953 -344 -0.360965373 Govt Way e/o US95 392 134 -68 0.507462687 Totals 5161 1811 1258 -553 -0.305356157 Modeled PM Actual PM Modeled-Actual / PM Peak PM Peak **Actual PM Peak** PM Total Location Link # From Node To Node Peak Volume Peak Coun Count Time Count Twin Lakes to Nat. Forest. Screenline # 11 Southbound v Rd south of Brunner 01 1500 33 11 226 237 100 67 2.030303030

realized in a south of branner		1000	00		~~~	201	100		2.000000000
Diagonal Rd south of Brunner	74	1500	26	9610	230	1099	71	45	1.730769231
SH 41 south of Seasons Rd	542	1500	209	13078	10914	239	286	77	0.368421053
East Twin Lake Rd near SH 41	258	1700	105	10385	9776	239	211	106	1.009523810
US 95 south of Brunner Rd	1758	1700	647	13717	11245	9902	472	-175	-0.270479134
Totals	2723		1020				1140	120	0.117647059
Northbound						2	R. S		
Ramsey Rd south of Brunner	259	1700	99	44	237	226	102	3	0.030303030
Diagonal Rd south of Brunner Rd	57	1700	23	9610	1099	230	103	80	3.478260870
SH 41 south of Seasons Rd	1288	1700	506	13078	239	10914	425	-81	-0.160079051
East Twin Lake Rd near SH 41	130	1600	52	10385	239	9776	157	105	2.019230769
US 95 south of Brunner Rd	2321	1600	792	13717	9902	11245	507	-285	-0.359848485
Totals	4055	a to a fundad	1472	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in internal		1294	-178	-0.120923913

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KMPO Total Screenlines

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KMPO PM Tota	I Screenline
with 2007/2008	Count Locations Grown to 2010 Counts

#### PM PK HR Screenline Validation 2010 KMPO 2010 Base Model DRAFT Final 12-5-12.ver

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Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
US 95 to SH 3 South Screenline	#12							-	137
Southbound			8	S.	1	1	8	ē	
SH 97 north of Harrison	94	1500	42	13052	1061	10899	57	15	0.357142857
Cave Bay Rd @ Rock Creek	72	1500	25	1206	1073	10015	5	-20	-0.800000000
SH 97 north of SH 3	86	1500	40	1213	1077	1078	41	1	0.025000000
US 95 S/O Worley	669	1500	261	1217	1079	1085	261	0	0.000000000
SH 3 @ Benewah Co. Line	274	1500	112	1220	1081	1083	51	-61	-0.544642857
Ogara Rd west of SH 97	57	1700	28	10283	9726	9364	24		-0.142857143
US 95 N/O Worley	591	1700	213	13614	11168	11199	234	21	0.098591549
Totals	1843		721				673	-48	-0.066574202
Northbound				1	3				
SH 97 north of Harrison	48	1700	18	13052	10899	1061	95	77	4.277777778
Cave Bay Rd @ Rock Creek	78	1700	28	1206	10015	1073	1	-27	-0.964285714
SH 97 north of SH 3	125	1500	54	1213	1078	1077	39	-15	-0.277777778
US 95 S/O Worley	716	1600	258	1217	1085	1079	325	67	0.259689922
SH 3 @ Benewah Co. Line	366	1700	130	1220	1083	1081	94	-36	-0.276923077
Ogara Rd west of SH 97	102	1600	60	10283	9364	9726	65	5	0.083333333
US 95 N/O Worley	691	1500	283	13614	11199	11168	338	55	0.194346290
Totals	2126		831	1	-		957	126	0.151624549

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
SH 93 to LaTour Creek Rd Scre	enline # 13								
Southbound									
SH 3 S/O I 90	328	1700	114	1148	1030	1034	141	27	0.236842105
SH 97 N/O Burma	413	1700	220	13759	1017	11266	193	-27	-0.122727273
Cougar Gulch Rd west of US 95	249	1500	101	9644	969	9457	65	-36	-0.356435644
LaTour Creek Rd south of I 90	34	1700	15	11687	10339	1057	12	-3	-0.20000000
Totals	1024		450	1 1	1	2	411	-39	-0.086666667
Northbound				1		5			
Sh 3 S/O I 90	246	1600	82	1148	1034	1030	372	290	3.536585366
SH 97 N/O Burma	200	1500	70	13759	11266	1017	104	34	0.485714286
Cougar Gulch Rd west of US 95	127	1600	54	9644	9457	969	61	7	0.129629630
LaTour Creek Rd south of I 90	17	1500	8	11687	1057	10339	27	19	2.375000000
Totals	590		214		1		564	350	1.635514019

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Spirit Lake Pend'O Reille Scr	eenline #14								
Southbound				and the second second					
Perimeter Rd north of SH 545	43	1600	18	13462	202	11136	40	22	1.222222222
SH 41 south of Spirit Lake	738	1500	276	13597	11191	213	286	10	0.036231884
US 95 north of Athol	765	1600	270	10563	201	9857	353	83	0.307407407
SH 41 north of Spirit Lake	429	1500	154	13600	11192	198	170	16	0.103896104
Totals	1975		718				849	131	0.182451253
Northbound				3				2	
Perimeter Rd north of SH 54	50	1600	20	13462	11136	202	30	10	0.500000000
SH 41 south of Spirit Lake	1256	1700	496	13597	213	11191	436	-60	-0.120967742
US 95 north of Athol	1158	1600	426	10563	9857	201	428	2	0.004694836
SH 41 north of Spirit Lake	754	1700	268	13600	198	11192	247	-21	-0.078358209
Totals	3218		1210				1141	-69	-0.057024793

EAST - WEST SCREENLINES - KMPO								
Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume	Modeled-Actual / Actual PM Peak Count

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KMPO PM Total Screenline with 2007/2008 Count Locations Grown to 2010 Counts

Pleasant View Rd. Screenline # 1	15								
Eastbound								Ü	
SH 53	1808	1600	651	13930	440	11347	575	-76	-0.116743472
Seltice Way	1060	1600	367	13164	647	10965	595	228	0.621253406
Prairie Rd.	475	1500	162	8834	473	9019	196	34	0.209876543
Riverbend Ave	393	1600	144	9371	9222	9226	332	188	1.305555556
SH 53 (W/O Prairie Ave)	916	1600	330	10750	9945	471	501	171	0.518181818
Poleline Ave.	102	1600	38	13161	544	10964	2	-36	-0.947368421
Totals	4754		1692				2201	509	0.300827423
Westbound			a and a start						
							í l		
SH 53	784	1500	295	13930	401	440	450	155	0.525423729
Seltice Way	1109	1500	385	13164	10965	647	460	75	0.194805195
Prairie Rd.	375	1600	140	8834	9019	473	116	-24	-0.171428571
Riverbend Ave	251	1700	87	9371	9226	9222	250	163	1.873563218
SH 53 W/O Prairie Ave	732	1600	381	10750	471	9945	281	-100	-0.262467192
Poleline Ave.	64	1700	22	13161	10964	544	0	-22	-1.000000000
Totals	2531		1310				1557	247	0.188549618

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
McGuire Rd. Screenline # 16									
Eastbound									
SH 53	1616	1600	585	248	401	366	612	27	0.046153846
Seltice Way	1557	1600	533	13231	651	11002	651	118	0.221388368
Poleline Ave.	166	1700	59	10168	547	9672	97	38	0.644067797
Prairie Rd.	484	1600	169	13591	11189	9907	274	105	0.621301775
Totals	3823		1346				1634	288	0.213967311
Westbound	3		§}	3		2	S		
SH 53	1032	1500	388	248	366	401	538	150	0.386597938
Seltice Way	1703	1600	583	13231	11002	651	686	103	0.176672384
Poleline Ave.	261	1700	101	10168	9672	547	107	6	0.059405941
Prairie Rd.	369	1600	137	13591	9907	11189	153	16	0.116788321
Totals	3365		1209				1484	275	0.227460711

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Chase Rd. Screenline # 17									
Eastbound									
Hayden Rd.	278	1500	97	308	411	1148	131	34	0.350515464
Prairie Rd.	536	1600	193	13173	478	479	228	35	0.181347150
Poleline Ave.	306	1600	110	506	550	551	196	86	0.781818182
Seltice Way	1886	1500	661	12744	9439	9004	701	40	0.060514372
Totals	3006	_	1061				1256	195	0.183788878
Westbound						8	8	8	
Hayden Rd.	347	1600	128	308	1148	411	116	-12	-0.093750000
Prairie Rd.	516	1600	201	13173	479	478	154	-47	-0.233830846
Poleline Rd.	478	1700	176	506	551	550	215	39	0.221590909
Seltice Way	2046	1700	710	12744	9004	9439	837	127	0.178873239
Totals	3387		1215				1322	107	0.088065844

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Spokane St. Screenline # 18	-						Į		
Eastbound							S	_	
Prairie Rd.	674	1500	236	410	480	481	255	19	0.080508475
Poleline Ave.	722	1700	259	13478	11141	553	337	78	0.301158301
4th St.	381	1500	128	743	753	721	237	109	0.851562500
Seltice Way	2127	1600	747	13899	9004	11332	521	-226	-0.302543507
3rd St	576	1600	205	10721	765	9930	254	49	0.239024390
Totals	4480		1575	1			1604	29	0.018412698
Westbound						8	š (* 13		2
Prairie Rd.	721	1600	283	410	481	480	243	-40	-0.141342756

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#### KMPO PM Total Screenline with 2007/2008 Count Locations Grown to 2010 Counts

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		PM Peak	PM Peak				Modeled PM	Modeled -	Modeled-Actual / Actual PM Peak
Totals	4616		1679				1411	-268	-0.159618821
3rd St	634	1600	232	10721	9930	765	165	-67	-0.288793103
Seltice Way	2180	1600	760	13899	11332	9004	622	-138	-0.181578947
4th St.	266	1500	114	743	721	753	129	15	0.131578947
Poleline Ave.	815	1600	290	13478	553	11141	252	-38	-0.131034483

Location	PM Total	Time	Count	Link #	From Node	To Node	Peak Volume		Count
Idaho St. Screenline # 19									
Eastbound					1				
Prairie Rd.	700	1600	245	413	482	483	364	119	0.485714286
Poleline	733	1700	281	13802	554	11283	221	-60	-0.213523132
Seltice Way	2535	1600	868	689	682	709	754	-114	-0.131336406
4th St.	260	1500	98	747	724	725	93	-5	-0.051020408
Totals	4228		1492				1432	-60	-0.040214477
Westbound									
Prairie Rd.	807	1600	305	413	483	482	330	25	0.081967213
Poleline	727	1600	264	13802	11283	554	167	-97	-0.367424242
Seltice Way	2993	1600	1053	689	709	682	988	-65	-0.061728395
4th St.	57	1500	37	747	725	724	47	10	0.270270270
Totals	4584		1659				1532	-127	-0.07655214

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume	Modeled - Actual PM Peak Count	Modeled-Actual / Actual PM Peak Count
Greensferrry Rd. Screenline # 20									
Eastbound									
Prairie Rd.	698	1600	251	421	486	487	309	58	0.231075697
Poleline Ave.	745	1700	262	519	558	559	139	-123	-0.469465649
16th	189	1500	67	587	606	607	93	26	0.388059701
12th	228	1600	78	628	635	636	147	69	0.884615385
Mullan Ave	1685	1600	589	667	664	665	404	-185	-0.314091681
Seltice Way	1853	1500	643	13807	11285	728	557	-86	-0.133748056
Wyoming Ave	67	1500	33	1246	1101	1154	2	-31	-0.939393939
Hayden Rd.	379	1600	132	6243	413	414	218	86	0.651515152
SH 53	1524	1600	558	8854	309	9029	618	60	0.107526882
3rd St.	453	1700	162	10720	11285	728	117	-45	-0.277777778
Totals	7821		2775				2604	-171	-0.061621622
Westbound					4				
Prairie Rd.	844	1600	325	421	487	486	339	14	0.043076923
Poleline Ave.	868	1500	310	519	559	558	250	-60	-0.193548387
16th	236	1500	82	587	607	606	138	56	0.682926829
12th	224	1500	82	628	636	635	53	-29	-0.353658537
Mullan Ave	1427	1600	502	667	665	664	420	-82	-0.163346614
Seltice Way	2343	1600	837	13807	11285	728	695	-142	-0.169653524
Wyoming Ave	80	1500	39	1246	1154	1101	8	-31	-0.794871795
Hayden Rd.	469	1600	182	6243	414	413	216	34	0.186813187
SH 53	948	1500	342	8854	9029	309	487	145	0.423976608
3rd St.	377	1700	127	10720	771	9929	113	-14	-0.110236220
Totals	7816		2828		-		2719	-109	-0.03854314

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
SH 41 Screenline # 21									
Eastbound				-	(i		6		
McCamey St N/O SR41	163	1600	61	128	287	293	65	4	0.065573770
Poleline Rd.	778	1500	278	13801	10348	562	141	-137	-0.492805755
Mullan Ave	2056	1600	732	672	668	669	516	-216	-0.295081967
Seltice Way	3424	1600	1182	9318	9382	734	981	-201	-0.170050761
Lancaster	18	1500	8	9346	1151	332	0	-8	-1.000000000
Wyoming	146	1500	71	9449	9037	1094	2	-69	-0.971830986
Seltice Way (Duplicate - new count)	3338	1600	1148	10417	731	9382	981	-167	-0.145470383
Nagel Ln	196	1700	72	13703	11238	323	142	70	0.972222222

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Prairie Rd.	676	1600	235	10990	10057	488	313	78	0.331914894
Hayden Rd.	376	1600	127	11241	10138	415	224	97	0.763779528
Boekel Rd	89	1700	33	11679	10335	10335	84	51	1.545454545
Totals	11260		3947				3449	-498	-0.126171776
Westbound									
McCamey St N/O SR41	168	1600	59	128	293	287	44	-15	-0.254237288
Poleline Rd.	744	1600	259	13801	562	10348	213	-46	-0.177606178
Mullan Ave	1609	1600	546	672	669	668	387	-159	-0.291208791
Seltice Way	2198	1600	200	9318	734	9382	322	122	0.610000000
Lancaster	22	1500	10	9346	332	1151	0	-10	-1.000000000
Wyoming	143	1500	58	9449	1094	9037	8	-50	-0.862068966
Seltice Way (Duplicate - new count)	2077	1600	724	10417	9382	731	750	26	0.035911602
Nagel Ln	302	1700	103	13703	323	11238	173	70	0.679611650
Prairie Rd.	856	1600	318	10990	488	10057	345	27	0.084905660
Hayden Rd.	468	1600	183	11241	415	10138	223	40	0.218579235
Boekel Rd	127	1700	44	11679	310	10335	107	63	1.431818182
Totals	8714		2504				2572	68	0.02715655

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Huetter Rd Screenline # 22							1		
Eastbound									
Wyoming Ave	7	1500	4	250	1160	367	0	-4	-1.000000000
Hayden Rd.	848	1500	325	323	417	418	418	93	0.286153846
Prairie Rd.	1319	1600	458	432	494	491	608	150	0.327510917
Seltice Way	1617	1600	587	13954	793	794	0	-587	-1.000000000
Mullan Ave	114	1500	36	8873	9043	685	16	-20	-0.555555556
Maplewood	150	1500	52	10753	9766	9946	5	-47	-0.903846154
Boekel Ave	307	1500	113	11233	10036	1096	117	4	0.035398230
Totals	4362		1575				1164	-411	-0.260952381
Westbound				Carrow I	and the second				
Wyoming Ave	6	1600	4	250	367	1160	0	-4	-1.000000000
Hayden Rd.	1257	1600	473	323	418	417	468	-5	-0.010570825
Prairie Rd.	975	1600	516	432	491	494	590	74	0.143410853
Mullan Ave	209	1600	71	8873	685	9043	38	-33	-0.464788732
Seltice Way	1727	1500	611	12732	9814	10738	1121	510	0.834697218
Maplewood	177	1600	61	10753	9946	9766	20	-41	-0.672131148
Boekel Ave	370	1700	138	11233	1096	10036	152	14	0.101449275
Totals	4721		1874				2389	515	0.274813234

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
Ramsey Rd Screenline # 23							1		
Eastbound			1		1		0		
Ohio Match Rd	69	1700	25	65	245	1139	19	-6	-0.240000000
Garwood Rd	176	1500	80	76	251	1140	27	-53	-0.662500000
Hwy 53	851	1600	301	103	269	270	308	7	0.023255814
Lancaster Ave	312	1600	128	207	336	337	259	131	1.023437500
Wyoming Ave	304	1600	114	251	368			-85	-0.745614035
Miles Ave	153	1600	59	276	387	388	36	-23	-0.389830508
Hayden Ave	1190	1500	416	332	422	423	395	-21	-0.050480769
Honeysuckle Ave	435	1600	155	13457	450	11133	107	-48	-0.309677419
Prairie Ave	2091	1500	714	13926	498	11345	712	-2	-0.002801120
Appleway	1501	1600	533	8917	813	9097	250	-283	-0.530956848
Kathleen Ave	2130	1500	780	9440	689	9087	315	-465	-0.596153846
Dalton Ave	331	1500	126	13849	613	11306	53	-73	-0.579365079
Hanley Ave	1088	1500	386	9492	569	9100	425	39	0.101036269
Ironwood Dr	1176	1500	478	10300	857	9734	627	149	0.311715481
Boekel Rd	205	1500	88	11559	9032	10275	129	41	0.465909091
Wilbur Ave Pinegrove	294	1700	105	12891	524	10788	240	135	1.285714286
Totals	12306		4488	1			3931	-557	-0.124108734
Westbound		-	1 /			8	8	8	
Ohio Match Rd	52	1500	18	65	1139	245	18	0	0.000000000
Garwood Rd	279	1700	105	76	1140	251	27	-78	-0.742857143
Hwy 53	1133	1700	392	103	270	269	383	-9	-0.022959184

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Lancaster Ave	187	1600	69	207	337	336	229	160	2.318840580
Wyoming Ave	287	1600	116	251	369	368	29	-87	-0.750000000
Miles Ave	95	1500	40	276	388	387	16	-24	-0.600000000
Hayden Ave	955	1500	333	332	423	422	281	-52	-0.156156156
Honeysuckle Ave	406	1600	142	13457	11133	450	87	-55	-0.387323944
Prairie Ave	2183	1700	785	13926	11345	498	750	-35	-0.044585987
Appleway	1713	1600	603	8917	9097	813	324	-279	-0.462686567
Kathleen Ave	2407	1500	825	9440	9087	689	492	-333	-0.403636364
Dalton Ave	366	1600	137	13849	11306	613	102	-35	-0.255474453
Hanley Ave	1169	1600	432	9492	9100	569	466	34	0.078703704
Ironwood Dr	2087	1600	741	10300	9734	857	1044	303	0.408906883
Boekel Rd	395	1600	168	11559	10275	9032	175	7	0.041666667
Wilbur Ave Pinegrove	359	1600	155	12891	10788	524	233	78	0.503225806
Totals	14073		5061				4656	-405	-0.080023711

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
US 95 Screenline # 24									2
Eastbound			1			8	8	<u> </u>	
Ohio Match Rd	132	1700	53	66	246	247	19	-34	-0.641509434
Garwood Rd	338	1700	117	13780	253	11215	76	-41	-0.350427350
Lancaster Ave	283	1600	101	13640	338	339	162	61	0.603960396
Hayden Ave	1309	1600	458	12169	10494	427	276	-182	-0.397379913
Honeysuckle Ave	963	1600	351	13841	10493	455	318	-33	-0.094017094
Prairie Ave	2122	1600	734	12159	10491	501	505	-229	-0.311989101
Dalton Ave	595	1600	310	12129	10488	616	303	-7	-0.022580645
Kathleen Ave	1678	1600	611	12917	10487	692	521	-90	-0.147299509
Neider Ave	1596	1600	557	11795	10485	762	504	-53	-0.095152603
Appleway Ave	2133	1600	716	874	831	832	655	-61	-0.085195531
Ironwood Blvd	2159	1600	765	13002	868	1172	558	-207	-0.270588235
Walnut St	457	1600	163	970	892	9129	217	54	0.331288344
Hanley Ave	1386	1500	476	12132	10495	9054	436	-40	-0.084033613
US 95	1509	1700	517	10649	891	9895	452	-65	-0.125725338
Old US 95 n/o SH53	522	1600	188	10666	9821	9903	108	-13	-0.084967320
Miles Ave	304	1500	124	10833	9982	392	68	-56	-0.451612903
Wyoming Ave	450	1600	167	10838	9983	373	213	46	0.275449102
Totals	17936		6408		3	27	5391	-1017	-0.158707865
Westbound									
Ohio Match Rd	51	1600	21	66	247	246	5	-16	-0.761904762
Garwood Rd	213	1600	84	13780	11215	253	76	-8	-0.095238095
Lancaster Ave	127	1600	46	13640	339	338	162	116	2.521739130
Hayden Ave	1369	1500	482	12169	427	10494	333	-149	-0.309128631
Honeysuckle Ave	1212	1600	438	13841	11302	10493	296	-142	-0.324200913
Prairie Ave	1286	1700	447	12159	501	10491	552	105	0.234899329
Dalton Ave	871	1600	303	12129	616	10488	353	50	0.165016502
Kathleen Ave	1541	1700	516	12917	10803	10487	680	164	0.317829457
Neider Ave	1694	1600	567	11795	762	10485	467	-100	-0.176366843
Appleway Ave	2215	1600	756	874	832	831	602	-154	-0.203703704
Ironwood Blvd	1902	1600	644	13002	10867	868	778	134	0.208074534
Walnut St	343	1600	117	970	898	892	120	3	0.025641026
Hanley Ave	1406	1600	487	12132	9054	10495	455	-32	-0.065708419
US 95	1478	1600	522	10649	9895	891	832	310	0.593869732
Old US 95 n/o SH53	388	1600	153	10666	9903	9821	140	-80	-0.425531915
Miles Ave	291	1500	136	10833	392	9982	66	-70	-0.514705882
Wyoming Ave	238	1700	90	10838	373	9983	102	12	0.133333333
Totals	16625		5809				6019	210	0.0361508

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
West Side KMPO Screenline # 25							i. i	1	
Eastbound			1		0				
Seltice Way W/O Beck Rd	912	1600	312	8826	9015	717	534	222	0.711538462
Rockford Bay Rd east of US 95	122	1600	44	9001	1046	9177	14	-30	-0.681818182
Elder Rd @ Washington Line	61	1700	26	9274	1049	9355	0	-26	-1.000000000
SH 58 @ Washington Line	271	1700	93	9283	1068	9362	107	14	0.150537634

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KMPO Total Screenlines

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#### KMPO PM Total Screenline Validation 2010 with 2007/2008 Count Locations Grown to 2010 Counts KMPO 2010 Base Model DRAFT Final 12-5-12.ver

Calibrated Model 12-5-12 by KMPO

Conkling Rd east of US 95	55	1700	23	13365	1079	11081	47	24	1.043478261
SH 53 @ Washington State Line	1123	1600	395	13244	514	11008	497	102	0.258227848
Totals	2544		893				1199	306	0.342665174
Westbound				2		6	1.2		
Seltice Way W/O Beck Rd	752	1500	267	8826	717	9015	480	213	0.797752809
Rockford Bay Rd east of 190	190	1500	100	9001	9177	1046	19	-81	-0.810000000
Elder Rd @ Washington Line	87	1700	35	9274	9355	1049	0	-35	-1.000000000
SH 58 @ Washington Line	377	1500	141	9283	9362	1068	161	20	0.141843972
Conkling Rd east of US 95	45	1500	16	13365	11081	1079	59	43	2.687500000
SH 53 @ Washington State Line	856	1600	301	13244	11008	514	282	-19	-0.063122924
Totals	2307		860				1001	141	0.163953488

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
East Side KMPO Screenline # 26							i li		
Eastbound					0				
Bunco Rd @ Nunn Rd	61	1700	25	13713	231	11243	6	-19	-0.760000000
Ohio Match Rd East of Rimrock Rd	55	1500	24	13950	249	250	20	-4	-0.166666667
Mullan Trail Rd north of I 90	146	1600	52	1075	980	976	86	34	0.653846154
Sunnyside Rd south of Mullan Trail	91	1600	33	1089	990	987	34	1	0.030303030
190 @ Shoshone Co. Line	1560	1500	542	1160	1040	1042	413	-129	-0.238007380
Feman Lake Rd @ CdA City Limit	59	1700	25	10296	949	9965	120	95	3.80000000
SH 54 West of Farragut Park Entrance	270	1500	99	10875	9999	200	110	11	0.111111111
Lancaster Rd east of Rimrock	157	1600	56	11515	344	10253	56	0	0.000000000
Totals	2399		856	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			845	-11	-0.012850467
Westbound						~	3		
Bunco Rd @ Nunn Rd	84	1500	31	13713	11243	231	9	-22	-0.709677419
Ohio Match Rd East of Rimrock Rd	25	1500	11	13950	11357	249	9	-2	-0.181818182
Mullan Trail Rd north of I 90	77	1600	27	1075	976	980	112	85	3.148148148
Sunnyside Rd south of Mullan Trail	55	1600	25	1089	987	990	30	5	0.20000000
190 (@ Shoshone Co. Line)	1411	1500	506	1157	1037	1041	396	-110	-0.217391304
Feman Lake Rd @ CdA City Limit	68	1700	28	10296	9965	949	117	89	3.178571429
SH 54 West of Farragut Park Entrance	320	1500	133	10875	200	9999	100	-33	-0.248120301
Lancaster Rd east of Rimrock	135	1500	55	11515	10253	344	51	-4	-0.072727273
Totals	2175		816				824	8	0.009803922

		PM Peak	PM Peak			210.0100 40	Modeled PM	Modeled - Actual PM	Modeled-Actual / Actual PM Peak
Location	PM Total	Time	Count	Link #	From Node	To Node	Peak Volume	Peak Count	Count
Government Way Screenline #:	27							1	
Eastbound					1		and states		Mark Control and an Array
Lancaster Ave	407	1700	149	13640	11210	339	172		0.154362416
Miles Ave	356	1700	122	285	393	394	57	-65	-0.532786885
Hayden Ave	871	1700	317	341	428	429	166	-151	-0.476340694
Honeysuckle Ave	724	1700	280	13829	456	11296	344		0.228571429
Prairie Ave	1344	1700	502	448	502	11102	568	66	0.131474104
Wilbur Ave	186	1500	68	475	527	528	20	-48	-0.705882353
Hanley Ave	609	1600	210	13792	573	11279	237	27	0.128571429
Dalton Ave	1033	1600	361	602	617	618	359		-0.005540166
Neider Ave	1541	1600	524	816	777	779	411	-113	-0.215648855
Appleway/Best Ave	2419	1700	827	877	833	834	800	-27	-0.032648126
N/O Sherman Ave	2019	1600	684	1032	944	951	693	9	0.013157895
Wyoming Ave	154	1700	58	8875	374	9044	176	118	2.034482759
Government Way	486	1600	173	10297	944	9733	377	204	1.179190751
Harrison Ave	1192	1600	430	10468	9812	900	366	-64	-0.148837209
Foster Ave	256	1700	93	13015	9825	10875	217	124	1.333333333
Margaret Ave	1358	1600	480	11310	10160	694	353	-127	-0.264583333
Totals	14955		5278				5316	38	0.007199697
Westbound	0.000				1			20	
Lancaster Ave	297	1600	105	13640	339		162		0.542857143
Miles Ave	284	1500	118	285	394	393	33	-85	-0.720338983
Hayden Ave	688	1500	245	341	429	428	145	-100	-0.408163265
Honeysuckle Ave	632	1600	237	13829	11296	456	253		0.067510549
Prairie Ave	1097	1600	373	448	11102	502	396	23	0.061662198
Wilbur Ave	122	1600	44	475	528	527	10	-34	-0.772727273
Hanley Ave	678	1500	258	13792	11279	573	152	-106	-0.410852713

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KMPO Total Screenlines

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#### KMPO PM Total Screenline Validation 2010 with 2007/2008 Count Locations Grown to 2010 Counts KMPO 2010 Base Model DRAFT Final 12-5-12.ver

#### Calibrated Model 12-5-12 by KMPO

Dalton Ave	793	1500	286	602	618	617	286	0	0.000000000
Neider Ave	1493	1500	520	816	779	777	309	-211	-0.405769231
Appleway/Best Ave	1963	1500	677	877	834	833	520	-157	-0.231905465
N/O Sherman Ave	2006	1500	676	1032	951	944	699	23	0.034023669
Wyoming Ave	90	1700	34	8875	9044	374	74	40	1.176470588
Government Way	533	1500	194	10297	9733	944	228	34	0.175257732
Harrison Ave	901	1500	343	10468	900	9812	380	37	0.107871720
Foster Ave	180	1500	69	13015	10875	9825	264	195	2.826086957
Margaret Ave	1102	1600	380	11310	694	10160	292	-88	-0.231578947
Totals	12859		4559				4203	-356	-0.078087300

Location	PM Total	PM Peak Time	PM Peak Count	Link #	From Node	To Node	Modeled PM Peak Volume		Modeled-Actual / Actual PM Peak Count
90 Ramps Screenline # 28									
Eastbound									
90 Ramp @ Spokane St EB Off	2015	1700	734	713	701	703	657	-77	-0.104904632
90 Ramp @ Spokane St EB Off	930	1500	328	717	703	704	349	21	0.064024390
90 Ramp @ Seltice Way EB On	816	1600	276	749	726	712	412	136	0.492753623
SR 90 @ Pleasant View Rd EB Off	1195	1600	426	786	752	719	688	262	0.615023474
SR 90 @ Pleasant View Rd	1218	1600	458	785	751	752	558	100	0.21834061
90 Ramp @ NW Blvd/Ramsey EB Off	2382	1500	815	866	826	843	757	-58	-0.071165644
90 Ramp @ NW Blvd/Ramsey EB On	1015	1700	342	892	843	844	336	-6	-0.017543860
90 Ramp @ US 95 EB Off	1863	1600	668	12707	847	859	556	-112	-0.16766467
90 Ramp @ US 95	982	1700	338	915	859	849	422	84	0.248520710
90 Ramp @ 3rd/4th St EB On	901	1700	330	919	861	862	232	-98	-0.29696969
90 Ramp @ SH 41 EB Off	1807	1700	648	12739	10742	731	483	-165	-0.254629630
90 Ramp @ 23rd St EB On	259	1500	92	8818	9011	968	123	31	0.336956522
90 Ramp @ SH 41 EB On	1580	1500	569	10250	9709	736	595	26	0.045694200
90 Ramp @ 3rd/4th St EB Off	1715	1700	606	10408	860	9788	832	226	0.372937294
90 Ramp @ 15th St EB On	214	1700	74	10428	9795	912	80	6	0.081081081
90 Ramp @ 15th St EB Off	1241	1700	458	10430	885	9796	501	43	0.093886463
90 Ramp @ 23rd St (One Way)	1014	1700	361	10758	947	9948	334	-27	-0.074792244
Totals	21147		7523				7915	392	0.052106872
Westbound									
90 Ramp @ Spokane St WB On	1169	1500	392	684	679	677	471	79	0.201530612
90 Ramp @ Spokane St Off	1257	1600	435	720	705	679	641	206	0.473563218
90 Ramp @ Seltice Way Off Ramp	1399	1700	472	729	713	711	504	32	0.067796610
90 Ramp @ SH 41WB On	1769	1600	629	731	714	733	469	-160	-0.254372019
SR 90 @ Pleasant View Rd WB On	961	1600	329	737	718	750	417	88	0.267477204
SR 90 @ Pleasant View Rd WB Off	1070	1600	374	740	720	718	651	277	0.74064171
90 Ramp @ NW Blvd/Ramsey WB On	2642	1600	903	869	828	827	858	-45	-0.049833887
90 Ramp @ NW Blvd/Ramsey WB Off	981	1500	360	896	845	828	308	-52	-0.14444444
90 Ramp @ US 95 WB On	1142	1700	271	900	848	846	623	352	1.29889298
90 Ramp @ US 95 EB On Ramp	2506	1500	859	904	850	848	496	-363	-0.42258440
90 Ramp @ 3rd/4th St WB On	1698	1700	586	907	853	852	578	-8	-0.013651877
90 Ramp @ 3rd/4th St WB Off	675	1500	248	923	863	853	258	10	0.04032258
90 Ramp @ 23rd St WB On	882	1500	332	1059	964	948	297	-35	-0.10542168
90 Ramp @ 23rd St WB Off	226	1600	91	1061	965	964	152	61	0.670329670
90 Ramp @ 15th St to Hazel	262	1500	98	8814	911	9009	12	-86	-0.877551020
90 Ramp @ SH 41 WB Off	2206	1700	773	10422	737	9792	570	-203	-0.26261319
90 Ramp @ 15th St WB On	950	1600	331	10432	9797	878	370	39	0.117824773
Totals	21795		7483		11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		7675	192	0.025658158

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#### KMPO PM Total Screenine with 2007/2000 Count Locations Grown to 2010 Counts

#### PM PK HR Screenline Validation 2010 KMPO 2010 Base Model DRAFT Final 12:5-12 ver

Calibrated Model 12-5-12 by KMPO

	Total PM Peak Actual	Total PM Peak Modeled	Modeled -		Total PM Peak Actual Bi-	Total PM Peak Modeled Br	Total PM Peak Volume - Actual Br	((Modeled - Actual) / Actual Bi- Directional PM	% Allowable Deviation	Within
COND Caseso lines Caseso Lines	Directional	Directional	Actual PM Peak Count	((Modeled - Actual) / Actual PM Peak Count)*100	Directional	Directional Volume	Directiona	Peak Count)*100	per TMP FHA	Allowable
SB/NB Screenlines Screenlines Spokane River Crossing Screenline # 1	2			PM Peak County 100	Spokane River (		reenline	5	Q	Deviation
Southbound Northbound	1037	1102	301	6 37	2080	2526	446	21	63	Y
Seltice Screenline # 2	1000		315		Seltice Screenlin	10 5870	1150			-
Southbound Forthbound	2182 2252	2497	1121	14	6434	50/0	1436	34	204	T
farrison Ave Screenline#3 Southbound	2006	1576	-430	-21	Harrison Ave Sc 4058	reenline	-590	-15	62	~
forthbound	2052	1892	-160	-21	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	3400	-300	-19	0.2	-
Appleway Ave/Best Screenline # 4 Southbound	2478	2624	146		Appleway Ave/B 5236	est Screenl 5547	ine 311	6	59	Y
forthbound	2758	2923	165	6						
Seltice WayMullan Rd/Kathleen Screen Southbound	nline # 5 7595	7128	-467	-6	Seltice Way/Mul 16420	lan Rd/Kath 16222	-198	- 1	49	Y
forthbound	.8825	9094	269	3				1		2
Poleline Rd Screenline # 6 Southbound	5580	5773	193	3	Poleline Rd Scre 12560	13223	663	5	52	Y
forthbound Prairie Rd. Screenline # 7	6980	7450	470	7	Prairie Rd. Scre	malina		/		2
Southbound	4613	5130	517	11	10022	enline 11103	1081	11	54	Y
forthbound fayden Ave Screenline#8	5409	5973	564	10	Hayden Ave Sci	eenline			-	
Southbound	953	921	-32	.3	2188	2090	-98	-4	63	Y
forthbound .ancaster Rd. Screenline#9	1235	1169	-66	-5	Lancaster Rd. S	creenling			×	
Southbound	1202	1456	254	21	2998	3220	222	7	62	Ŷ
forthbound SH 53 - US 95 Screenline # 10	1796	1764	-32	-2	SH 53 - US 95 St	creenline	-	-		-
Southbound	1542 1811	1147	-395	-26 -31	3353	2405	-948	-28	63	Y
Torthbound Twin Lakes Nat. Forest Screenline # 11		1258	1000		Twin Lakes Nat.	Forest Scr	enline			
Southbound	1020	1140 1294	120 -178	12	2492	2434	-58	-2	63	Ŷ
Northbound JS 95 to SH 3 Screenline // 12				-12	US 95 to SH 3 S	creenline			-	
Southbound Northbound	721	673 957	-48 126	-7	1552	1630	78	5	64	Y
SH93 to LaTour Creek Screenline#13					SH 93 to LaTour	Creek Rd S	creenline	S	S	
Southbound	450 214	411 564	-39 350	-9	664	975	311	47	64	Y
Spirit Lake/Pend O'Reille Screenline#	14			1	Spirit Lake Pend	O'Reille S	creenline #	12	5	
Southbound Northbound	718	849	131	18	1928	1990	62	3	63	Y.
	Total PM Peak Actual Directional	Total PM Peak Modeled Directional	Modeled - Actual PM	((Modeled - Actual) / Actual	Total PM Peak Actual Bi- Directional	Total PM Peak Modeled Bi Directional	Total PM Peak Volume - Actual Bi- Directiona	(Modeled - Actual) / Actual Bi- Directional PM Peak	% Allowable Deviation per TMP	Within
B/WB Screenlines Screenlines Pleasant View Rd. Screenline # 15	Count	Volume	Peak Count	((Modeled - Actual) / Actual PM Peak Count)*100	Count	Volume	I Count	Count*100	FHA	Deviation
astbound	1692	2201	509 247	30	Pleasant View 1 3002	d. Screenli 3758	756	25	61	Y
Westbound McGuire Rd. Screenline # 16	1310	1557	247	19	MeCuke Dd Se	ada lin a				
astbound	1346	1634	288	21	2555	3118	563	22	62	Y
Nestbound Dhase Rd. Screenline# 17	1209	1484	275	23	Chase Rd. Scree	enline			0	
astbound	1061	1256	195	18	Chase Rd. Scree 2276	2578	302	13	63	Y
Nestbound Spokane St. Screenline # 18	1215	1322	107	9	Spokane St. Scr	eenline			C. Vont	
astbound	1575	1604 1411	29	2	Spokane St. Scr 3254	3015	-239	-7	62	Y
Vestbound daho St Screenline # 19	1679		-268	-16	Idaho St. Screen	line		<u>.</u>	20	
astbound Westbound	1492	1432	-60	-4	3151	2964	-187	-6	62	Y
Greensferry Screenline# 20		1000	1. 1992		Greensferry Rd.	Screenline			S. Second	
astbound Nestbound	2775	2604 2719	-171	-6	5603	5323	-280	-5	60	Y.
SH 41 Screenline # 21					SH 41 Screenlin				Q	
astbound Westbound	3947 2504	3449	-498 68	-13	6451	6021	-430	-7	59	Y
luetter Rd Screenline # 22					Huetter Rd. Scru	enline	-			
astbound Westbound	1675	1164 2389	-411 515	-26	3449	3553	104	3	61	Y
Ramsey Rd Screenline # 23										
The server aller 20		- mark			Ramsey Rd Scro	enline		-		Y
astbound Westbound	4455 5061	3931 4656	-557 -405	-12 -8	Ramsey Rd Scro 9549	enline 8587	-962	-10	56	
astbound Westbound JS 95 Screenline # 24	5061	3931 4656		-12 -8	US 95 Screenlin	e		-10		-
astbound Vesthound JS 95 Screenline # 24 astbound Vesthound	4488 5061 6408 5809	3931 4656 5391 6019	-857 -405 -1017 210	-12 -8 -16 -4	US 95 Screenlin 12217	e 11410	-962 -607	-10	56 64	Y
astbound Mestbound JS 95 Screenline # 24 astbound Mestbound Nest Side KMPO Screenline # 25	5061 6400 5809	5391 6019	-1017 210	-12 -8 -16 -4	US 95 Screenlin 12217 West Side KMPf	e 11410 O Screenlin	-807	.7	64	Y
astbound Westbound JS 95 Screenline # 24 astbound West Side KMPO Screenline # 25 astbound Westbound Westbound	5061 6400	5391	-1017	-12 -8 -8 -86 -4 -4 -34 -34 -16	US 95 Screenlin 12217 West Side KMPG 1753	e 11410 D Screenline 2200		-10 -7 25		Y
antbound Westhound 15 95 Screenline # 24 antbound West Side KMPO Screenline # 25 antbound Westhound ant Side KMPO Screenline # 26 astbound	5061 6400 5809	5391 6019 1199 1001	-1017 210 306 141	-12 -8 -15 -4 -15 -16 -16 	US 95 Screenlin 12217 West Side KMPO 1753 East Side KMPO	e 11410 O Screenline 2200 Screenline	-807	7	64 63	Y Y Y
awthound Westhound 15 95 Screenline # 24 awthound Westhound Westhound awthound awt Slake KMPO Screenline # 25 awthound awt Slake KMPO Screenline # 26 awthound Westhound	5061 6408 5609 893 860	5391 6019 1199	-1017 210 306	-15 -16 -16 -16 -16 -1 -1 -1 -1 -1	US 95 Screenlin 12217 West Side KMPC 1763 East Side KMPC 1672	e 11410 O Screenline 2200 Screenline 1669	-807	.7	64	Y Y Y
antbound Vestbound Vestbound Vestbound Vestbound VestSide RMPO Screenline # 25 actionand VestBound VestBound Nestbound Sizerennest Way Screenline # 27 Automation # 20 Automation # 27 Automation # 2	5061 6400 5809 893 860 856 816 816	5391 6019 1199 1001 845 824 5316	-1017 210 306 141	-12 -0 -18 -18 -18 -14 -14 -15 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -12 -12 -	US 95 Screenlin 12217 West Side KMPO 1753 East Side KMPO	e 11410 O Screenline 2200 Screenline 1669	-807	7	64 63	Y Y Y
entound wethound mine # 24 Wethound Mine # 24 Wethound Wethound actional actional actional actional actional Sincernment Way Screenline # 27 actional Sincernment Way Screenline # 27 actional Wethound	5061 5408 5509 893 860 856 816	5391 6019 1199 1001 845 824	-1017 210 306 141	-12 -0 -18 -18 -19 -11 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	US 95 Screenlin 12217 West Side KMP( 1753 East Side KMPO 1672 Government Wa 9837	e 11410 Screenline 2200 Screenline 1669 y Screenlin 9519	-807 447 -3	7	54 63 64	Y Y Y Y
actbound Wethound 15 95 Screenline # 24 withound Wethound Wethound Wethound art Side RMPO Screenline # 26 withound art Side RMPO Screenline # 26 withound Sivenment Way Screenline # 27 withound Sivenment Way Screenline # 28 Wethound	5061 6400 5809 893 860 856 816 816	5391 6019 1199 1001 845 824 5316	-1017. 210 306 141 -11 8 30 -356 302	12 -8 -16 -4 -3 -1 -1 -1 -1 -1 -1 -1 -1 -3 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8	US 95 Screenlin 12217 West Side KMP0 1753 East Side KMP0 1672 Government We	e 11410 Screenline 2200 Screenline 1669 y Screenlin 9519	-807 447 -3	7	54 63 64	Y Y Y Y
anthound St 55, Scientine # 24 West Total & MPO Screenline # 25 westhound Westhound Westhound and Side KMPO Screenline # 25 and Side KMPO Screenline # 26 antibund Westhound Westhound Westhound 99 Ramps Screenline # 20 anthoung	5061 6408 5609 893 860 856 816 816 4559	5391 6019 1199 1001 845 824 5316 4203	-1017 210 305 141 -11 8 30 -356	12 	US 95 Screenlin 12217 West Side KMP( 1753 East Side KMPO 1672 Government Wa 9837	e 11410 Screenline 2200 Screenline 1669 y Screenlin 9519	-807 -807 -3 -3 -318 -318	-7 25 0 -3	64 63 64 55	Y Y Y Y Y
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1 of 1 HMPO Total Screenines

### Appendix 1F : Final Model Results Assignment Analysis Comparison

The 2010 KMPO Base Model PM PK HR "**assignment analysis**" is reported internally within the model and shows the final AM/ PM PK HR model results. The formula the program measures the observed traffic counts against the modeled traffic volumes.

VISUM 12.01-10 - Network: KM	PO_2010_FINAL DRA	FT Base_PM PK RL	IN 12-4-12.ver*	- [Procedure sequence]			
File Edit View Lists Filters	Calculate Graphic	s <u>N</u> etwork <u>D</u> em	and E <u>x</u> tras Scr	i <u>p</u> ts <u>W</u> indow <u>H</u> elp <u>P</u> rocedure s			
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C Y Territories		12	×	Edit attribute			
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		15	×	Read filter			
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+ V POIs		17	×	Read filter			
		18	×	Edit attribute			
🖉 🔍 GIS objects		10		0 1 0			

The (GEH) formula used was created by Geoffrey E. Havers, is a statistical mathematical formula that is used internally within the VISUM assignment analysis graph calculations that checks the model calibration. The assignment analysis uses this formula and graphs a plot that tells you how accurately the traffic volumes match the modeled volumes.

This widely accepted approach compares the actual traffic counts taken in the field to the modeled output volumes using the GEH formula:

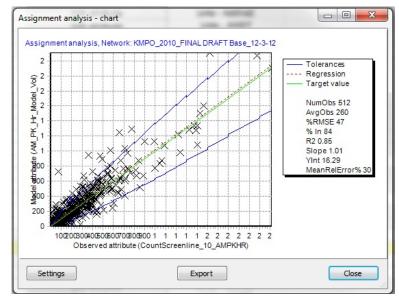
For hourly flows, the GEH formula is:

$$GEH = \sqrt{\frac{2(m-c)^2}{m+c}}$$

Notes:

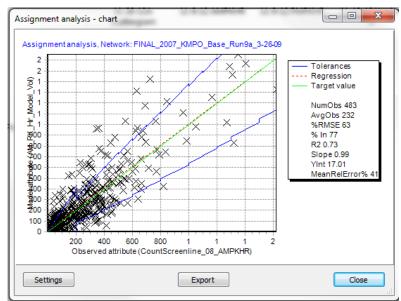
m = output traffic volume from the simulation model (vph)
c = input traffic volume (vph)

The graph below displays the final 2010 KMPO Base Model PM PK HR "assignment analysis" of the network reported inside the model for PM PK HR results.



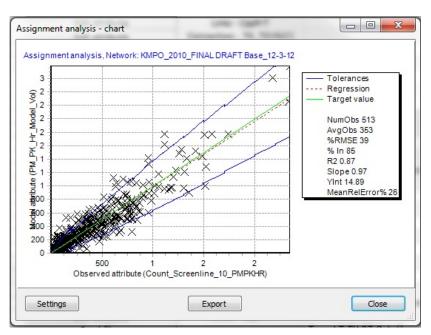
2010 KMPO AM PK HR Final Base Model Assignment Analysis Chart

The final 2007 KMPO Base Model AM PK HR "assignment analysis" of the network is reported inside the model for AM PK HR results. This is used for comparison only to the previous 2007 model version. Comparison of the two assignment results shows that there is improvement from the previous 2007 base model to the updated 2010 base model.



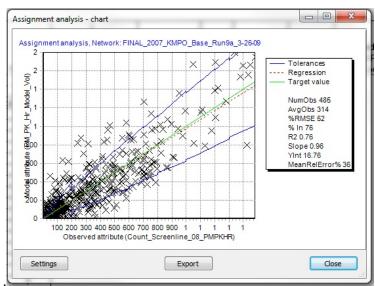
2007 KMPO Previous AM PK HR Final Base Model Assignment Analysis Chart (for comparison only)

The final 2010 KMPO Base Model PM PK HR "assignment analysis" of the network is reported inside the model for PM PK HR results.



2010 KMPO PM PK HR Final Base Model Assignment Analysis Chart

The graph above is from the final 2007 KMPO Base Model PM PK HR "assignment analysis" of the network is reported inside the model for PM PK HR results. This is used for comparison only to the previous 2007 model version. Comparison of the two assignment results shows that there is improvement from the previous 2007 base model to the updated 2010 base model.



2007 Previous PM PK HR Final Base Model Assignment Analysis Chart (for comparison only)

Kootenai