



Technical Memorandum

October 04, 2022

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Copy to	Bjorn Jones (Grass Valley)		Patrick Perkins (Nevada County) Trisha Tillotson (Nevada County)
From	Billy Park, TE	Tel	+1 916 245 4206
Subject	Re-validation and Enhancement to Nevada County Travel Demand Model	Project no.	11230706; 12560295; 12559906

1. Introduction

During the first application of the updated model for the nexus studies, some anomalies related to its external trip percentage were found that required modifications to the model. The purpose of this technical memorandum is to document the re-calibration effort that was performed to check for and correct anomalous outputs from the model. This memo can be cited in EIRs and other documents as evidence that the tool used to forecast traffic volumes meets industry standards and is therefore a reasonable basis for planning.

2. Model Adjustments

2.1 Percentage of External Trips

Figure 2.1 displays seven areas, six areas and unincorporated county area, identified in the 2014 version of NCTC model. Census places geographies roughly match with these boundaries, and Table 2.1 summarizes Census Journey-to-work data for each of these six Census places in Nevada County. Due to a lack of a better data, the unincorporated county was assumed to be the same as Grass Valley¹.

As shown, the external trip percentages of Nevada County residents commuting to outside of the county (Home-based Work Internal-to-External) and the percentage of jobs in Nevada County filled by workers outside of the county (Home-based Work External-to-Internal) vary by Census Places. In the case of Lake of the Pines, nearly 70% of its trips are destined to/oriented from outside of the County, which makes sense given its proximity to the county boundary.

To apply varying percentage of external trips for these areas, GHD revised Home-base Work (HBW) IX and XI percentages to match the Census data shown in Table 2.1. This will improve the accuracy of the model's forecasts used for both the nexus study and the analyses of VMT impacts in future Environmental Impact Reports.

¹ If we had used Census data for county as a whole, it would have distorted the results because it would have included Truckee and the eastern unincorporated areas whose travel characteristics are different from the western part of the county represented in the model.

Figure 2.1 Area Types Map

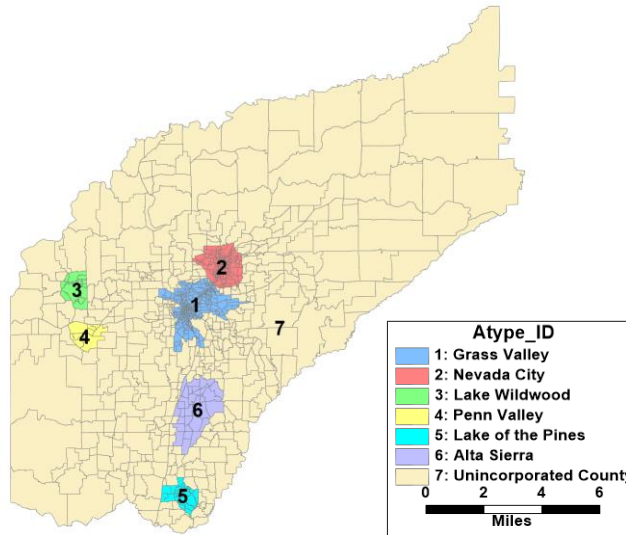


Table 2.1 External Trip % from U.S. Census Journey-to-work

Area		HBW IX %	HBW XI %
1	Grass Valley	41.5%	34.2%
2	Nevada City	43.2%	30.3%
3	Lake Wildwood	55.8%	41.7%
4	Penn Valley	47.6%	26.3%
5	Lake of the Pines	69.6%	66.5%
6	Alta Sierra	55.5%	36.4%
7	Other (rural)	41.5%	34.2%

2.2 Traffic Counts & Station Weights

Nevada County provided the traffic counts that were used in the 2018 model validation. It includes 2018 counts as well as counts from previous years that were projected to 2018 conditions. GHD eliminated the traffic counts that are older than 2011 because the traffic pattern in Nevada County changed significantly following the construction of the Dorsey Drive Interchange and other improvements. We also removed low volumes roads such as dirt and gravel roads whose traffic volumes are too low to be forecast accurately with a traffic model².

Traffic counts did not include all gateway locations at the county line. GHD updated or added gateway counts with 2019 volume estimates from “big data” source Replica along the Nevada/Placer County lines.

The station weights were then updated using the revised traffic counts, and Table 2.2 summarizes the station weights that were applied to the revised NCTC model.

² Very-low-volume roads may appear in traffic models to help identify locations but have little functional value. In the event that a significant development project were to be proposed that is served by a very-low-volume road, then the analyst would probably need to add TAZs so that the traffic associated with the new development enters and leaves the road system at the correct location(s).

Table 2.2 External Trip % from U.S. Census Journey-to-work

Gateway	Description	Station Weights
2001	SR 20 West - Nevada/Yuba County Line	14.6%
2002	SR 49 North - Nevada/Yuba County Line	3.2%
2003	SR 20 East - Nevada/Placer County Line	5.0%
2004	SR 174 - Nevada/Placer County Line	12.2%
2005	Dog Bar Road - Nevada/Placer County Line	2.4%
2006	SR 49 South - Nevada/Placer County Line	62.7%

2.3 Through Trips

Once the Internal-to-External and External-to-Internal trip volumes were corrected using Census Journey-to-work data, the residual unaccounted-for volumes at traffic counts at gateways were identified as through trips. The through trip matrix was updated accordingly.

2.4 Model Network

The model network was updated along SR 49 to improve loadings based on aerial photos, especially for recent construction of frontage roads near La Barr Meadows Road.

3. Validation

The NCTC model has been re-validated after adjusting some inputs described in earlier sections.

The California Transportation Commission (CTC) published guidelines for model calibration as part of its 2017 Regional Transportation Plan Guidelines for Metropolitan Planning Organizations. The guidelines give three thresholds for validity, namely:

- At least 75 percent of the roadway links should be within the Caltrans maximum desirable deviation, which ranges from approximately 15 to 60 percent depending on total volume (the larger the volume, the less deviation is permitted).
- The correlation coefficient between the traffic counts and the estimated traffic volumes should be greater than 88 percent.
- The percent Root Mean Square Error (RSME) should be less than 40%.

In addition to the CTC acceptance criteria, another widely-used criterion was applied, namely:

- The two-way sum of the volumes on all roadway links for which counts are available should be within 10 percent of the counts.

Table 3.1 summarizes the results of the link-level validation tests against over 200 daily locations and 50 locations for AM peak hour and PM peak hour. The model meets the CTC validation criteria for all three forecast periods (daily, AM peak hour, and PM peak hour). Figure 3.1, Figure 3.2, and Figure 3.3 are scatter diagrams comparing the model's volumes to the traffic counts for individual locations for the daily, AM peak hour, and PM peak hour, respectively. The allowable deviation is shaded in the figure. These figures show a good match of forecasts to counts with no systematic bias towards over- or under-predicting traffic. The model was within the maximum acceptable deviation in all cases, which indicates that the model provides reasonable estimates of total traffic flows between different parts of Nevada County.

Table 3.1 Link-Level Validation Results

Validation Criterion	Threshold for Acceptance	Daily	AM Peak Hour	PM Peak Hour
Count Sites Percent Within Caltrans Maximum Deviation	At Least 75%	81% ✓	88% ✓	94% ✓
Model/Count Ratio	Within 10%	2% ✓	-1% ✓	-1% ✓
Percent Root Mean Square Error	Less than 40%	38% ✓	28% ✓	23% ✓
Coefficient of Determination	At Least 77%	90% ✓	90% ✓	92% ✓
Correlation Coefficient	At Least 88%	95% ✓	95% ✓	96% ✓

Figure 3.1 Modeled Volumes versus Traffic Counts (Daily)

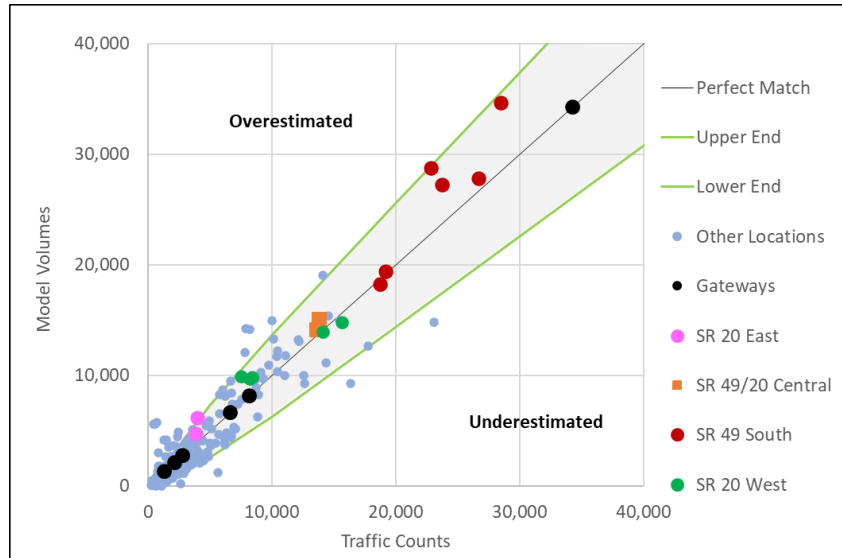


Figure 3.2 Modeled Volumes versus Traffic Counts (AM Peak Hour)

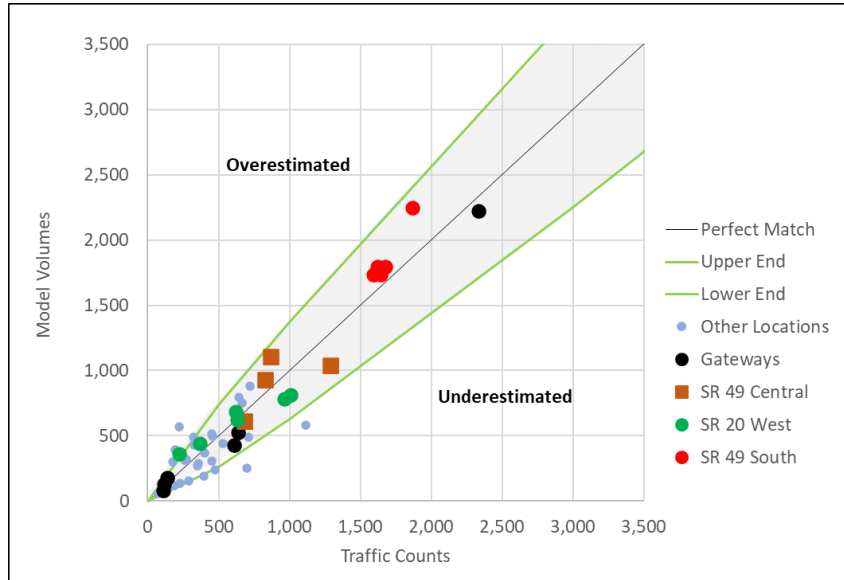
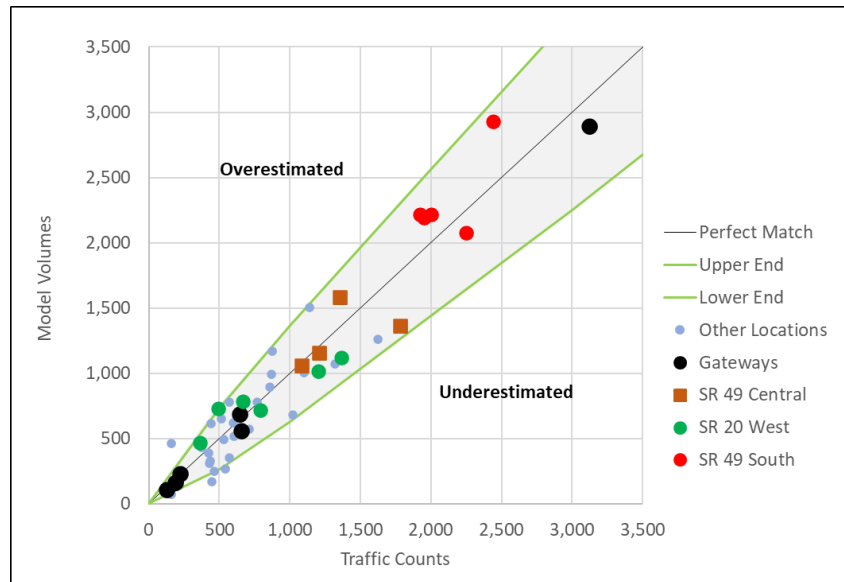


Figure 3.3 Modeled Volumes versus Traffic Counts (PM Peak Hour)



Appendix
Validation Results

Check of Daily Volumes

Roadway	Segment	Model Volume	Traffic Count	Model / Count	Maximum Deviation	Within Deviation	Model - Count	Difference Squared
STATE HIGHWAY 20	SR 20 WEST OF MOONEY FLAT RD (GATEWAY)	8,180	8,179	1.00	0.40	Yes	1	1
STATE HIGHWAY 49	SR 49 NORTH OF HERON RD (GATEWAY)	2,123	2,126	1.00	0.60	Yes	-3	9
STATE HIGHWAY 20	SR 20 EAST at PLACER/NEVADA COUNTY LINE (GATEWAY)	2,770	2,770	1.00	0.60	Yes	0	0
STATE HIGHWAY 174	SR 174 SE OF REDBERRY RD (GATEWAY)	6,653	6,653	1.00	0.43	Yes	0	0
DOG BAR ROAD	DOG BAR RD SOUTH OF SPRINGFIELD DR (GATEWAY)	1,291	1,292	1.00	0.60	Yes	-1	1
STATE HIGHWAY 49	SR 49 OVERHILL DR TO LINNET LN (GATEWAY)	34,246	34,245	1.00	0.24	Yes	1	1
STATE HIGHWAY 20	SR 20 EAST OF HARMONY RIDGE RD (GATEWAY)	4,725	3,849	1.23	0.60	Yes	876	767,376
STATE HIGHWAY 20	SR 20 SR 49 TO NEVADA STREET/MANZANITA DIGGINS DR	6,161	3,964	1.55	0.60	Yes	2,197	4,828,990
STATE HIGHWAY 49/20	SR 20/49 GOLD FLAT RD TO SACRAMENTO ST (NORTHBOUND)	14,126	13,597	1.04	0.32	Yes	529	279,805
STATE HIGHWAY 49/20	SR 20/49 GOLD FLAT RD TO SACRAMENTO ST (SOUTHBOUND)	15,030	13,811	1.09	0.32	Yes	1,219	1,484,747
STATE HIGHWAY 49	SR 49 W. MCKNIGHT WAY TO W. EMPIRE STREET (NORTHBOUND)	19,433	19,130	1.02	0.28	Yes	303	91,681
STATE HIGHWAY 49	SR 49 W. MCKNIGHT WAY TO W. EMPIRE STREET (SOUTHBOUND)	18,285	18,717	0.98	0.29	Yes	-432	186,280
STATE HIGHWAY 49	SR 49 CRESTVIEW DRIVE TO W. MCKNIGHT WAY	27,824	26,646	1.04	0.26	Yes	1,178	1,388,505
STATE HIGHWAY 49	SR 49 PINGREE ROAD TO LITTLE VALLEY ROAD	27,283	23,706	1.15	0.27	Yes	3,577	12,791,566
STATE HIGHWAY 49	SR 49 COMBIE RD TO CAMEO DR	28,752	22,837	1.26	0.27	Yes	5,915	34,982,738
STATE HIGHWAY 49	SR 49 WOODRIDGE DR TO COMBIE RD	34,652	28,450	1.22	0.26	Yes	6,202	38,462,134
STATE HIGHWAY 20	SR-20 PLEASANT VALLEY RD. TO PENN VALLEY DR.	9,834	8,388	1.17	0.40	Yes	1,446	2,092,088
STATE HIGHWAY 20	SR-20 Pleasant Valley Road to Rough & Ready Hwy	13,955	14,082	0.99	0.31	Yes	-127	16,162
STATE HIGHWAY 20	SR 20 BRIGHTON STREET TO PENN VALLEY DRIVE	14,835	15,664	0.95	0.31	Yes	-829	687,342
STATE HIGHWAY 20	SR-20, MILL STREET TO SR-49 (WESTBOUND)	9,675	8,186	1.18	0.40	Yes	1,489	2,215,909
STATE HIGHWAY 20	SR-20, MILL STREET TO SR-49 (EASTBOUND)	9,888	7,496	1.32	0.42	Yes	2,392	5,721,490
STATE HIGHWAY 49	SR 49 MEADOWBROOK COURT TO ALTA SIERRA DRIVE	27,328	23,490	1.16	0.27	Yes	3,838	14,730,525
BENNETT STREET	BENNETT STREET TINLOY STREET TO HANSEN WAY	7,850	7,583	1.04	0.41	Yes	267	71,373
BENNETT STREET	BENNETT STREET TINLOY STREET TO E. MAIN STREET	9,632	8,008	1.20	0.40	Yes	1,624	2,638,394
BRUNSWICK ROAD	BRUNSWICK RD SE OF E. BENNETT RD	10,375	10,437	0.99	0.37	Yes	-62	3,869
BRUNSWICK ROAD	BRUNSWICK S. OLD TUNNEL	11,133	14,354	0.78	0.31	Yes	-3,221	10,373,464
BRUNSWICK ROAD	BRUNSWICK RD. NEVADA CITY HWY TO MALTMAN DR.	14,804	23,040	0.64	0.27	No	-8,236	67,824,917
BRUNSWICK ROAD	BRUNSWICK RD N. OF HWY 174	10,261	9,082	1.13	0.38	Yes	1,179	1,389,989
BRUNSWICK ROAD	BRUNSWICK RD NW OF LOMA RICA DR	14,941	15,463	0.97	0.31	Yes	-522	272,256
BRUNSWICK ROAD	BRUNSWICK S. TOWN TALK	10,023	11,001	0.91	0.35	Yes	-978	956,474
BRUNSWICK ROAD	BRUNSWICK RD N. OF IDAHO MARYLAND RD	10,019	12,578	0.80	0.33	Yes	-2,559	6,546,409
BRUNSWICK ROAD	BRUNSWICK RD S. OF IDAHO MARYLAND RD	15,360	14,565	1.05	0.31	Yes	795	631,401
BRUNSWICK ROAD	BRUNSWICK RD NW OF E. BENNETT RD	11,801	11,066	1.07	0.35	Yes	735	540,552
COLFAX AVENUE	SR 174 CENTRAL AVE TO OPHIR ST	5,909	4,941	1.20	0.60	Yes	968	937,318
COMBIE ROAD	COMBIE RD E. OF HWY 49	9,247	16,341	0.57	0.30	No	-7,094	50,324,409
COMBIE ROAD	COMBIE RD W. of W. Hacienda & Magnolia	9,290	12,640	0.73	0.33	Yes	-3,350	11,224,179
EAST MAIN STREET	NEV CTY HWY SW. OF BRUNSWICK RD	8,061	8,030	1.00	0.40	Yes	31	951
EAST MCKNIGHT WAY	West McKnight Way NB SR 49 Ramps to La Barr Meadows	19,077	14,075	1.36	0.31	No	5,002	25,020,178
LA BARR MEADOWS ROAD	LABARR MEADOWS N. OLD WHITE TOLL ROAD	14,212	7,866	1.81	0.41	No	6,346	40,275,120
LA BARR MEADOWS ROAD	LaBARR MEADOWS RD N. OF DOG BAR RD	14,129	8,177	1.73	0.40	No	5,952	35,431,680
MILL STREET	Mill Street SR 20 Ramps to French Avenue	8,727	6,013	1.45	0.44	No	2,714	7,364,878
MILL STREET	Mill Street McCourtney Road to SR 20 Ramps	11,710	10,370	1.13	0.37	Yes	1,340	1,795,982
NEVADA CITY HIGHWAY	NEV. CTY HWY NE. OF BRUNSWICK RD	12,642	17,722	0.71	0.30	Yes	-5,080	25,805,346
ROUGH AND READY HIGHWAY	ROUGH AND READY HWY W. OF SQUIRREL CREEK RD	3,861	4,976	0.78	0.60	Yes	-1,115	1,243,365
SOUTH AUBURN STREET	South Auburn Street, between Badger and Adams	8,234	5,758	1.43	0.45	Yes	2,476	6,131,296
STATE HIGHWAY 174	SR 174 PARTRIDGE RD TO EMPIRE MINE CROSS RD	4,645	5,701	0.81	0.45	Yes	-1,056	1,114,427
STATE HIGHWAY 174	SR 174 GOLD HILL DR TO RACE ST	5,287	6,924	0.76	0.43	Yes	-1,637	2,680,200
STATE HIGHWAY 174	SR 174 BRUNSWICK RD TO LOS CENDROS LN	13,302	10,139	1.31	0.37	Yes	3,163	10,004,234
STATE HIGHWAY 174	SR 174 E. EMPIRE STREET TO CHURCH ENTRANCE	8,237	8,890	0.93	0.39	Yes	-653	426,479
STATE HIGHWAY 49	SR 49 W. BROAD ST/CEMENT HILL RD TO ELKS LODGE ENTRANCE	7,418	6,789	1.09	0.43	Yes	629	395,232
STATE HIGHWAY 49	SR 49 SR 20 TO COYOTE STREET	13,228	12,131	1.09	0.33	Yes	1,097	1,204,491
STATE HIGHWAY 49	SR 49 NEWTON RD TO JOHN BARLEYCORN RD	5,492	4,664	1.18	0.60	Yes	828	685,440
WEST EMPIRE STREET	W EMPIRE ST LE DUC ST TO S AUBURN ST	2,653	4,843	0.55	0.60	Yes	-2,190	4,795,255
WEST MCKNIGHT WAY	West McKnight Way Freeman to Taylorville	14,959	9,987	1.50	0.38	No	4,972	24,721,923
ALTA SIERRA DRIVE	ALTA SIERRA DR E. OF NORLENE WY	236	2,651	0.09	0.60	No	-2,415	5,832,225
ALTA SIERRA DRIVE	ALTA SIERRA DR W. OF DOG BAR RD	4,892	2,416	2.02	0.60	No	2,476	6,129,104
ALTA SIERRA DRIVE	ALTA SIERRA DR E. OF HWY 49	3,907	5,418	0.72	0.46	Yes	-1,511	2,283,121
ALTA STREET	ALTA ST SE OF RIDGE RD	2,071	4,170	0.50	0.60	Yes	-2,099	4,404,228
ALTA STREET	ALTA ST GRASS VALLEY CORP LIMIT	2,680	3,892	0.69	0.60	Yes	-1,212	1,468,260
ALTA STREET	ALTA STREET S. ALTA HILL MINE ROAD	2,109	3,676	0.57	0.60	Yes	-1,567	2,453,950
DOG BAR ROAD	DOG BAR RD SE OF MAGNOLIA RD	1,291	1,447	0.89	0.60	Yes	-156	24,380
DOG BAR ROAD	DOG BAR RD NW OF ALTA SIERRA DR	9,481	6,664	1.42	0.43	Yes	2,817	7,937,065
DOG BAR ROAD	DOG BAR RD S. OF LABARR MEADOWS RD	12,108	7,785	1.56	0.41	No	4,323	18,684,382
DOG BAR ROAD	DOG BAR RD S. OF MOUNT OLIVE RD	4,136	1,277	3.24	0.60	No	2,859	8,171,796
DOG BAR ROAD	DOG BAR RD N. OF MAGNOLIA RD	3,526	1,674	2.11	0.60	No	1,852	3,430,488
DOG BAR ROAD	DOG BAR RD S. OF ALTA SIERRA DR	5,162	5,128	1.01	0.47	Yes	34	1,180
DOG BAR ROAD	DOG BAR RD NW OF MOUNT OLIVE RD	4,181	1,445	2.89	0.60	No	2,736	7,485,041
DUGGANS ROAD	DUGGANS RD N. OF WOLF RD	3,610	2,226	1.62	0.60	No	1,384	1,914,645
DUGGANS ROAD	DUGGANS RD SE OF LIME KILN RD	3,680	2,034	1.81	0.60	No	1,646	2,708,381
EAST EMPIRE STREET	E. EMPIRE ST E. OF GRASS VALLEY CORP LIMIT	4,033	4,034	1.00	0.60	Yes	-1	1
EAST EMPIRE STREET		4,082	4,415	0.92	0.60	Yes	-333	111,019
EAST EMPIRE STREET		4,037	3,948	1.02	0.60	Yes	89	7,866
GOLD FLAT ROAD	GOLD FLAT RD HAWKE LN TO HOLLOW WY	2,866	4,029	0.71	0.60	Yes	-1,163	1,352,253
INDIAN SPRINGS ROAD	INDIAN SPRINGS RD NW OF SPENCEVILLE RD	1,633	968	1.69	0.60	No	665	442,022
INDIAN SPRINGS ROAD	INDIAN SPRINGS RD SE OF PENN VALLEY RD	1,523	1,311	1.16	0.60	Yes	212	45,066
INDIAN SPRINGS ROAD	INDIAN SPRINGS RD SE OF SPENCEVILLE RD	2,033	1,686	1.21	0.60	Yes	347	120,662
INDIAN SPRINGS ROAD	INDIAN SPRINGS RD W. OF McCOURTNEY RD	2,517	1,861	1.35	0.60	Yes	656	429,712

Check of Daily Volumes (continuous)

Roadway	Segment	Model Volume	Traffic Count	Model / Count	Maximum Deviation	Within Deviation	Model - Count	Difference Squared
INDIAN SPRINGS ROAD		1,647	907	1.81	0.60	No	740	546,868
LIME KILN ROAD	LIME KILN RD SE OF McCOURTNEY RD	2,168	1,848	1.17	0.60	Yes	320	102,183
MAGNOLIA ROAD	MAGNOLIA RD E. OF COMBIE RD (EB)	8,428	6,698	1.26	0.43	Yes	1,730	2,992,624
MAGNOLIA ROAD	MAGNOLIA RD E. OF LAKESHORE NORTH	8,137	6,203	1.31	0.44	Yes	1,934	3,740,747
MAGNOLIA ROAD	MAGNOLIA RD SW OF DOG BAR RD	2,665	1,391	1.92	0.60	No	1,274	1,624,226
MAGNOLIA ROAD	MAGNOLIA RD E. OF KNOLLS DR	2,637	2,038	1.29	0.60	Yes	599	358,284
MCCOURTNEY ROAD	McCourtney Road SR 20 Ramps to Mill Street	9,732	9,312	1.05	0.38	Yes	420	176,540
MCCOURTNEY ROAD	McCOURTNEY RD W. OF AUBURN RD	4,409	6,143	0.72	0.44	Yes	-1,734	3,006,302
MCCOURTNEY ROAD		9,690	8,740	1.11	0.39	Yes	950	901,648
MCCOURTNEY ROAD	McCOURTNEY RD SW OF BRIGHTON ST	10,959	9,739	1.13	0.38	Yes	1,220	1,489,084
MCCOURTNEY ROAD		4,409	6,634	0.66	0.43	Yes	-2,225	4,952,466
MCCOURTNEY ROAD		4,279	3,252	1.32	0.60	Yes	1,027	1,054,678
MCCOURTNEY ROAD	McCOURTNEY RD NE OF WOLF MOUNTAIN RD	3,245	3,984	0.81	0.60	Yes	-739	545,648
MCCOURTNEY ROAD	McCOURTNEY RD NE OF INDIAN SPRINGS RD	3,033	2,500	1.21	0.60	Yes	533	284,046
MCCOURTNEY ROAD	McCOURTNEY RD S. OF INDIAN SPRINGS RD	4,428	2,376	1.86	0.60	No	2,052	4,208,783
OLD TUNNEL ROAD	OLD TUNNEL RD S. OF BANNER LAVA CAP RD	1,961	3,500	0.56	0.60	Yes	-1,539	2,367,337
PENN VALLEY DRIVE		3,761	6,196	0.61	0.44	Yes	-2,435	5,928,372
PENN VALLEY DRIVE	PENN VALLEY DR SE OF PHEASANT ST	2,956	4,201	0.70	0.60	Yes	-1,245	1,551,163
PENN VALLEY DRIVE	PENN VALLEY DR SE OF EASY ST	2,788	3,351	0.83	0.60	Yes	-563	316,686
PENN VALLEY DRIVE	PENN VALLEY DR W. OF SPENCEVILLE RD	2,306	4,505	0.51	0.60	Yes	-2,199	4,836,198
PENN VALLEY DRIVE		3,656	5,050	0.72	0.47	Yes	-1,394	1,942,775
PLEASANT VALLEY ROAD	PLEASANT VALLEY RD N. OF WILDFLOWER DR	2,344	2,804	0.84	0.60	Yes	-460	211,914
PLEASANT VALLEY ROAD	PLEASANT VALLEY RD N. OF BITNEY SPRINGS RD	378	583	0.65	0.60	Yes	-205	42,025
PLEASANT VALLEY ROAD	PLEASANT VALLEY RD S. OF LAKE WILDWOOD DR	12,224	10,448	1.17	0.37	Yes	1,776	3,153,050
PLEASANT VALLEY ROAD	PLEASANT VALLEY RD S. OF BITNEY SPRINGS RD	787	854	0.92	0.60	Yes	-67	4,489
PLEASANT VALLEY ROAD	PLEASANT VALLEY RD @ FRENCH CORRAL	376	328	1.15	0.60	Yes	48	2,321
PLEASANT VALLEY ROAD	PLEASANT VALLEY RD N. OF LAKE WILDWOOD DR	4,797	6,317	0.76	0.44	Yes	-1,520	2,310,684
PLEASANT VALLEY ROAD	PLEASANT VALLEY RD W. OF HWY 49	527	580	0.91	0.60	Yes	-53	2,809
PLEASANT VALLEY ROAD	PLEASANT VALLEY RD N. OF HWY 20	13,063	12,141	1.08	0.33	Yes	922	850,034
RIDGE ROAD	RIDGE ROAD S. SIERRA COLLEGE BLVD	8,898	8,732	1.02	0.39	Yes	166	27,636
RIDGE ROAD	RIDGE RD W. OF UPPER SLATE CRK (GV CORP)	6,232	8,817	0.71	0.39	Yes	-2,585	6,683,527
RIDGE ROAD	RIDGE RD W. OF NEVADA CITY HWY (NC CORP)	5,083	3,595	1.41	0.60	Yes	1,488	2,215,307
RIDGE ROAD	RIDGE RD E. OF VIA VISTA (W)	4,994	3,706	1.35	0.60	Yes	1,288	1,659,531
RIDGE ROAD	RIDGE RD E. OF ROUGH AND READY HWY	4,502	6,741	0.67	0.43	Yes	-2,239	5,010,989
ROUGH AND READY HIGHWAY	ROUGH AND READY HWY W. OF RIDGE RD	7,421	7,268	1.02	0.42	Yes	153	23,396
ROUGH AND READY HIGHWAY	ROUGH & READY HIGHWAY W. OF WEST	6,570	5,749	1.14	0.45	Yes	821	674,594
ROUGH AND READY HIGHWAY	ROUGH AND READY HWY N. OF HWY 20	3,068	4,818	0.64	0.60	Yes	-1,750	3,063,947
ROUGH AND READY HIGHWAY	ROUGH AND READY HWY W. OF BITNEY SPRINGS RD	4,484	4,091	1.10	0.60	Yes	393	154,606
SPENCEVILLE ROAD	SPENCEVILLE RD NE OF INDIAN SPRINGS RD	1,160	1,669	0.69	0.60	Yes	-509	259,557
TYLER FOOTE CROSSING	TYLER FOOTE CROSSING RD NE OF OAK TREE RD	1,214	2,190	0.55	0.60	Yes	-976	952,405
TYLER FOOTE CROSSING	TYLER FOOTE CROSSING RD NE OF HWY 49	1,987	2,489	0.80	0.60	Yes	-502	252,046
TYLER FOOTE CROSSING	TYLER FOOTE CROSSING RD SW OF OAK TREE RD	1,436	1,642	0.87	0.60	Yes	-206	42,511
WOLF ROAD	WOLF RD W. OF HWY 49	5,191	7,043	0.74	0.42	Yes	-1,852	3,428,738
ALEXANDRA WAY	ALEXANDRA WY S. OF LAWRENCE WY	939	1,338	0.70	0.60	Yes	-399	159,201
ALEXANDRA WAY	ALEXANDRA WY E. OF PATRICIA WY	1,094	2,446	0.45	0.60	Yes	-1,352	1,827,904
ALLISON RANCH ROAD	ALLISON RANCH RD S. OF McCOURTNEY RD	460	688	0.67	0.60	Yes	-228	52,134
ALLISON RANCH ROAD	ALLISON RANCH N. OF JASPER	424	474	0.89	0.60	Yes	-50	2,486
ALLISON RANCH ROAD	ALLISON RANCH RD NW OF HWY 49	97	341	0.28	0.60	No	-244	59,536
AUBURN ROAD	AUBURN RD S. HIDDEN VALLEY	5,778	687	8.41	0.60	No	5,091	25,915,157
AUBURN ROAD	AUBURN RD S. OF GODFREY LN (WOLF CREEK)	5,635	440	12.80	0.60	No	5,195	26,986,338
AUBURN ROAD	AUBURN RD NW OF HWY 49	5,581	581	9.61	0.60	No	5,000	25,000,000
BALL ROAD	BALL RD E. OF ALTA SIERRA DR	1,270	2,163	0.59	0.60	Yes	-893	797,494
BANNER LAVA CAP ROAD	BANNER LAVA CAP RD E. OF GRACIE RD	1,849	2,688	0.69	0.60	Yes	-839	704,131
BANNER LAVA CAP ROAD	BANNER LAVA CAP RD E. OF OLD TUNNEL RD	2,286	3,476	0.66	0.60	Yes	-1,190	1,416,986
BANNER LAVA CAP ROAD	BANNER LAVA CAP RD W. OF GRACIE RD	742	1,973	0.38	0.60	No	-1,231	1,514,472
BANNER LAVA CAP ROAD	BANNER LAVA CAP RD W. OF IDAHO MARYLAND RD	1,759	930	1.89	0.60	No	829	687,693
BANNER LAVA CAP ROAD	BANNER LAVA CAP RD E. OF IDAHO MARYLAND RD	1,759	3,133	0.56	0.60	Yes	-1,374	1,887,264
BANNER LAVA CAP ROAD	BANNER LAVA CAP RD W. OF GAYLE LN	2,037	3,284	0.62	0.60	Yes	-1,247	1,555,915
BANNER QUAKER HILL ROAD	BANNER QUAKER HILL RD E. OF QUAKER HILL X RD	1,846	1,464	1.26	0.60	Yes	382	145,554
BANNER QUAKER HILL ROAD	BANNER QUAKER HILL RD W. OF PASQUALE RD (W)	1,743	1,546	1.13	0.60	Yes	197	38,739
BANNER QUAKER HILL ROAD	BANNER QUAKER HILL RD E. OF SUMMIT RIDGE (W)	11	663	0.02	0.60	No	-652	424,839
BENNETT STREET	BENNETT ST HENDERSON ST TO OPHIR ST	3,892	6,144	0.63	0.44	Yes	-2,252	5,071,010
BITNEY SPRINGS ROAD	BITNEY SPRINGS RD N. OF NEWTOWN RD	1,973	2,524	0.78	0.60	Yes	-551	304,055
BITNEY SPRINGS ROAD	BITNEY SPRINGS RD SE OF PLEASANT VALLEY RD	444	693	0.64	0.60	Yes	-249	62,127
BITNEY SPRINGS ROAD	BITNEY SPRINGS RD N. OF ROUGH AND READY HWY	2,684	3,571	0.75	0.60	Yes	-887	787,418
CEMENT HILL ROAD	CEMENT HILL RD W. OF CRYSTAL VIEW	370	926	0.40	0.60	No	-556	309,449
CEMENT HILL ROAD	CEMENT HILL RD W. OF AUGUSTINE RD	267	817	0.33	0.60	No	-550	302,507
COMBIE ROAD		1,142	2,890	0.40	0.60	No	-1,748	3,056,342
COMBIE ROAD	COMBIE RD SE OF MAGNOLIA RD	1,213	5,635	0.22	0.45	No	-4,422	19,553,700
CRUZON GRADE ROAD	CRUZON GRADE RD N. OF TYLER FOOTE CROSSING RD	437	336	1.30	0.60	Yes	101	10,202
EAST BENNETT ROAD	E. BENNETT RD E. OF GRASS VALLEY CORP LIMIT	2,690	1,825	1.47	0.60	Yes	865	748,245
EAST BENNETT ROAD		2,690	1,871	1.44	0.60	Yes	819	671,464
EAST BENNETT ROAD	E. BENNETT RD SW OF BRUNSWICK RD	1,302	1,402	0.93	0.60	Yes	-100	9,933
EAST LIME KILN ROAD	E. LIME KILN RD E. OF HWY 49	2,305	4,367	0.53	0.60	Yes	-2,062	4,251,844
FRANCIS DRIVE	FRANCIS DR (E) N. OF ALTA SIERRA DR	204	957	0.21	0.60	No	-753	566,887
GARDEN BAR ROAD	GARDEN BAR RD S. OF WOLF RD	927	1,160	0.80	0.60	Yes	-233	54,353
GARY WAY	GARY WY S. OF ALTA SIERRA DR	3,015	820	3.68	0.60	No	2,195	4,817,716

Check of Daily Volumes (continuous)

Roadway	Segment	Model Volume	Traffic Count	Model / Count	Maximum Deviation	Within Deviation	Model - Count	Difference Squared
GRACIE ROAD	GRACIE RD SE OF GOLD FLAT RD	1,830	1,502	1.22	0.60	Yes	328	107,773
GRACIE ROAD	GRACIE RD NW OF BANNER LAVA CAP RD	1,292	777	1.66	0.60	No	515	265,090
GREENHORN ROAD	GREENHORN RD E. OF TOBY TR	1,060	1,126	0.94	0.60	Yes	-66	4,415
GREENHORN ROAD	GREENHORN RD NE OF BRUNSWICK RD	2,606	3,539	0.74	0.60	Yes	-933	870,541
GREENHORN ROAD	GREENHORN RD E. OF ANCHOR LN	1,937	2,283	0.85	0.60	Yes	-346	119,379
IDAHO MARYLAND ROAD	IDAHO MARYLAND RD E. OF BRUNSWICK RD	2,116	2,424	0.87	0.60	Yes	-308	95,089
IDAHO MARYLAND ROAD	IDAHO MARYLAND RD W. OF BANNER LAVA CAP RD	1,142	1,509	0.76	0.60	Yes	-367	134,532
IDAHO MARYLAND ROAD	IDAHO MARYLAND W. OF SILK TASSLE	2,116	2,027	1.04	0.60	Yes	89	7,886
LAKE VERA-PURDON ROAD	LAKE VERA-PURDON RD NW OF N BLOOMFIELD-GRANITEVILLE	1,606	3,154	0.51	0.60	Yes	-1,548	2,396,302
LAKE VERA-PURDON ROAD	LAKE VERA-PURDON RD N. OF NEW ROME RD	419	440	0.95	0.60	Yes	-21	448
LAKE VERA-PURDON ROAD	LAKE VERA-PURDON RD S. OF NEW ROME RD	744	796	0.94	0.60	Yes	-52	2,658
LAKE VERA-PURDON ROAD	LAKE VERA-PURDON RD N. OF ROCK CREEK RD	1,118	1,251	0.89	0.60	Yes	-133	17,700
LAWRENCE WAY	LAWRENCE WY W. OF NORLENE WY	586	1,093	0.54	0.60	Yes	-507	257,496
LIME KILN ROAD	LIME KILN RD W. OF HWY 49	3,795	2,962	1.28	0.60	Yes	833	693,905
MOONEY FLAT ROAD	MOONEY FLAT RD W. OF PLEASANT VALLEY RD	55	245	0.22	0.60	No	-190	35,933
MOONEY FLAT ROAD	MOONEY FLAT RD N. OF HWY 20	338	704	0.48	0.60	Yes	-366	134,227
NEWTOWN ROAD	NEWTOWN RD NE OF BITNEY SPRINGS RD	1,676	1,368	1.22	0.60	Yes	308	94,669
NEWTOWN ROAD	NEWTOWN RD SW OF HWY 49	1,538	1,760	0.87	0.60	Yes	-222	49,470
NORLENE WAY	NORLENE WY S. OF LAWRENCE WY	1,815	816	2.23	0.60	No	999	998,935
NORLENE WAY	NORLENE WY S. OF TIPPY WY	737	1,426	0.52	0.60	Yes	-689	474,609
NORTH BLOOMFIELD-GRANITEVILLE ROAD	N. BLOOMFIELD-GRANITEVILLE RD N. OF HWY 49	1,910	2,869	0.67	0.60	Yes	-959	919,134
NORTH BLOOMFIELD-GRANITEVILLE ROAD	N. BLOOMFIELD GRANITEVILLE RD N. OF COOPER RD	1,241	1,123	1.10	0.60	Yes	118	13,833
NORTH BLOOMFIELD-GRANITEVILLE ROAD	N. BLOOMFIELD-GRANITEVILLE RD E. OF LAKE VERA-PURDON RD	180	614	0.29	0.60	No	-434	188,162
OAK TREE ROAD	OAK TREE RD NW OF TYLER FOOTE CROSSING RD	386	1,464	0.26	0.60	No	-1,078	1,162,775
OAK TREE ROAD	OAK TREE RD E. OF CHEROKEE RD	976	1,561	0.63	0.60	Yes	-585	342,618
PATRICIA WAY	PATRICIA WY S. OF ALEXANDRA WY	18	1,086	0.02	0.60	No	-1,068	1,141,406
PURDON ROAD	PURDON RD SE OF TYLER FOOTE CROSSING RD	307	732	0.42	0.60	Yes	-425	180,332
QUAKER HILL CROSS ROAD	QUAKER HILL CROSS RD NE OF RED DOG RD	866	1,692	0.51	0.60	Yes	-826	681,780
RATTLESNAKE ROAD	RATTLESNAKE RD NE OF DOG BAR RD	356	674	0.53	0.60	Yes	-318	101,124
RED DOG CROSS ROAD	RED DOG RD E. OF BANNER LAVA CAP RD	263	402	0.65	0.60	Yes	-139	19,426
RED DOG ROAD	RED DOG RD SE OF PASQUALE RD	2,906	2,385	1.22	0.60	Yes	521	271,441
RED DOG ROAD	RED DOG RD NW OF PARK AV	3,843	3,508	1.10	0.60	Yes	335	112,225
ROUGH AND READY ROAD	ROUGH AND READY RD W. OF ROUGH AND READY HWY	1,099	1,218	0.90	0.60	Yes	-119	14,161
ROUGH AND READY ROAD	ROUGH AND READY RD W. OF PROSPECTOR RD	665	796	0.84	0.60	Yes	-131	17,161
SCOTTS FLAT ROAD	SCOTTS FLAT RD S. OF HWY 20	758	724	1.05	0.60	Yes	34	1,185
SPENCEVILLE ROAD	SPENCEVILLE RD SW OF INDIAN SPRINGS RD	193	447	0.43	0.60	Yes	-254	64,350
SQUIRREL CREEK ROAD	SQUIRREL CREEK RD W. OF ROUGH AND READY HWY	3,223	3,272	0.99	0.60	Yes	-49	2,401
SQUIRREL CREEK ROAD	SQUIRREL CREEK RD W. OF ADAMS AV	890	1,609	0.55	0.60	Yes	-719	516,961
SQUIRREL CREEK ROAD	SQUIRREL CREEK RD E. OF ADAMS AV	1,123	2,218	0.51	0.60	Yes	-1,095	1,199,025
SQUIRREL CREEK ROAD	SQUIRREL CREEK SW OF PROCTOR CT.	352	631	0.56	0.60	Yes	-279	77,918
TAMMY WAY	TAMMY WY E. OF NORLENE WY	314	712	0.44	0.60	Yes	-398	158,258
TIPPY WAY	TIPPY WY S. OF ALTA SIERRA DR	726	1,410	0.51	0.60	Yes	-684	467,514
TYLER FOOTE CROSSING ROAD	TYLER FOOTE CROSSING RD S. OF CRUZON GRADE RD	437	477	0.92	0.60	Yes	-40	1,594
WHEELER CROSS ROAD	WHEELER CROSS RD E. OF DOG BAR RD	1,166	1,275	0.91	0.60	Yes	-109	11,779
WILLOW VALLEY ROAD	WILLOW VALLEY RD NEVADA CITY CORP LIMIT	478	1,589	0.30	0.60	No	-1,111	1,234,494
WOLF ROAD	WOLF RD S. OF LIME KILN RD	802	615	1.30	0.60	Yes	187	34,805
WOLF ROAD	WOLF RD W. OF DUGGANS RD	673	1,544	0.44	0.60	Yes	-871	758,913
YOU BET ROAD	YOU BET RD NE OF HWY 174	1,765	2,245	0.79	0.60	Yes	-480	230,874
YOU BET ROAD	YOU BET RD E. OF GREENHORN CREEK/HANSENS	473	333	1.42	0.60	Yes	140	19,620
Subtotal		1,061,172	1,041,442			Model/Count Ratio = 1.02		
							Percent Within Caltrans Maximum Deviation = 81%	> 75%
							Percent Root Mean Square Error = 38%	< 40%
							Coefficient of Determination (R²) = 0.90	> 0.77
							Correlation Coefficient = 0.95	> 0.88

Check of AM Peak Hour Volumes

Roadway	Segment	Model Volume	Traffic Count	Model / Count	Maximum Deviation	Within Deviation	Model - Count	Difference Squared
STATE HIGHWAY 20	SR 20 WEST OF MOONEY FLAT RD (GATEWAY)	530	637	0.83	0.44	Yes	-107	11,449
STATE HIGHWAY 49	SR 49 NORTH OF HERON RD (GATEWAY)	132	116	1.14	0.60	Yes	16	256
STATE HIGHWAY 20	SR 20 EAST at PLACER/NEVADA COUNTY LINE (GATEWAY)	180	137	1.31	0.60	Yes	43	1,849
STATE HIGHWAY 174	SR 174 SE OF REDBERRY RD (GATEWAY)	432	611	0.71	0.44	Yes	-179	32,041
DOG BAR ROAD	DOG BAR RD SOUTH OF SPRINGFIELD DR (GATEWAY)	84	108	0.78	0.60	Yes	-24	576
STATE HIGHWAY 49	SR 49 OVERHILL DR TO LINNET LN (GATEWAY)	2,223	2,331	0.95	0.27	Yes	-108	11,664
STATE HIGHWAY 20	SR 20 EAST OF HARMONY RIDGE RD (GATEWAY)	288	189	1.52	0.60	Yes	99	9,801
STATE HIGHWAY 49	SR 49 W. MCKNIGHT WAY TO W. EMPIRE STREET (NORTHBOUND)	1,041	1,291	0.81	0.33	Yes	-250	62,435
STATE HIGHWAY 49	SR 49 W. MCKNIGHT WAY TO W. EMPIRE STREET (SOUTHBOUND)	1,105	867	1.27	0.39	Yes	238	56,621
STATE HIGHWAY 49/20	SR 20/49 GOLD FLAT RD TO SACRAMENTO ST (NORTHBOUND)	614	683	0.90	0.43	Yes	-69	4,792
STATE HIGHWAY 49/20	SR 20/49 GOLD FLAT RD TO SACRAMENTO ST (SOUTHBOUND)	932	830	1.12	0.40	Yes	102	10,346
STATE HIGHWAY 20	SR-20, MILL STREET TO SR-49 (WESTBOUND)	443	369	1.20	0.60	Yes	74	5,524
STATE HIGHWAY 20	SR-20, MILL STREET TO SR-49 (EASTBOUND)	687	623	1.10	0.44	Yes	64	4,100
STATE HIGHWAY 20	SR 20 BRIGHTON STREET TO PENN VALLEY DRIVE	813	1,010	0.80	0.37	Yes	-197	38,819
STATE HIGHWAY 20	SR 20 SR 49 TO NEVADA STREET/MANZANITA DIGGINS DR	361	225	1.61	0.60	No	136	18,584
STATE HIGHWAY 20	SR-20 PLEASANT VALLEY RD. TO PENN VALLEY DR.	625	631	0.99	0.44	Yes	-6	38
STATE HIGHWAY 20	SR-20 Pleasant Valley Road to Rough & Ready Hwy	784	963	0.81	0.38	Yes	-179	32,058
STATE HIGHWAY 49	SR 49 PINGREE ROAD TO LITTLE VALLEY ROAD	1,733	1,592	1.09	0.31	Yes	141	19,841
STATE HIGHWAY 49	SR 49 WOODRIDGE DR TO COMBIE RD	2,247	1,865	1.20	0.29	Yes	382	146,063
STATE HIGHWAY 49	SR 49 COMBIE RD TO CAMEO DR	1,796	1,622	1.11	0.30	Yes	174	30,360
STATE HIGHWAY 49	SR 49 MEADOWBROOK COURT TO ALTA SIERRA DRIVE	1,734	1,645	1.05	0.30	Yes	89	7,877
STATE HIGHWAY 49	SR 49 CRESTVIEW DRIVE TO W. MCKNIGHT WAY	1,797	1,679	1.07	0.30	Yes	118	13,936
BENNETT STREET	BENNETT STREET TINLOY STREET TO HANSEN WAY	367	400	0.92	0.60	Yes	-33	1,111
BENNETT STREET	BENNETT STREET TINLOY STREET TO E. MAIN STREET	441	532	0.83	0.46	Yes	-91	8,295
BRUNSWICK ROAD	BRUNSWICK RD. NEVADA CITY HWY TO MALTMAN DR.	584	1,113	0.52	0.35	No	-529	280,023
COLFAX AVENUE	SR 174 CENTRAL AVE TO OPHIR ST	317	262	1.21	0.60	Yes	55	2,974
EAST MAIN STREET	NEV CTY HWY SW. OF BRUNSWICK RD	253	696	0.36	0.43	No	-443	196,691
EAST MCKNIGHT WAY	West McKnight Way NB SR 49 Ramps to La Barr Meadows	881	721	1.22	0.42	Yes	160	25,597
MILL STREET	Mill Street SR 20 Ramps to French Avenue	394	194	2.03	0.60	No	200	39,984
MILL STREET	Mill Street McCourtney Road to SR 20 Ramps	515	454	1.13	0.60	Yes	61	3,665
NEVADA CITY HIGHWAY	NEV. CTY HWY NE. OF BRUNSWICK RD	493	708	0.70	0.42	Yes	-215	46,110
SOUTH AUBURN STREET	South Auburn Street, between Badger and Adams	320	275	1.16	0.60	Yes	45	2,050
STATE HIGHWAY 174	SR 174 PARTRIDGE RD TO EMPIRE MINE CROSS RD	274	352	0.78	0.60	Yes	-78	6,136
STATE HIGHWAY 174	SR 174 GOLD HILL DR TO RACE ST	308	451	0.68	0.60	Yes	-143	20,562
STATE HIGHWAY 174	SR 174 BRUNSWICK RD TO LOS CENDROS LN	797	643	1.24	0.44	Yes	154	23,595
STATE HIGHWAY 174	SR 174 E. EMPIRE STREET OT CHURCH ENTRANCE	488	321	1.52	0.60	Yes	167	27,998
STATE HIGHWAY 49	SR 49 W. BROAD ST/CEMENT HILL RD TO ELKS LODGE ENTRANCE	428	329	1.30	0.60	Yes	99	9,832
STATE HIGHWAY 49	SR 49 SR 20 TO COYOTE STREET	753	665	1.13	0.43	Yes	88	7,772
STATE HIGHWAY 49	SR 49 NEWTON RD TO JOHN BARLEYCORN RD	330	248	1.33	0.60	Yes	82	6,697
WEST EMPIRE STREET	W EMPIRE ST LE DUC ST TO S AUBURN ST	138	227	0.61	0.60	Yes	-89	7,871
WEST MCKNIGHT WAY	West McKnight Way Freeman to Taylorville	570	222	2.57	0.60	No	348	121,373
GOLD FLAT ROAD	GOLD FLAT RD HAWKE LN TO HOLLOW WY	157	290	0.54	0.60	Yes	-133	17,699
MCCOURTNEY ROAD	McCourtney Road SR 20 Ramps to Mill Street	495	457	1.08	0.60	Yes	38	1,482
BENNETT STREET	BENNETT ST HENDERSON ST TO OPHIR ST	191	395	0.48	0.60	Yes	-204	41,709
COYOTE STREET	COYOTE ST CHURCH ST TO WASHINGTON ST	299	179	1.67	0.60	No	120	14,467
EAST BROAD STREET	E. BROAD ST MAIN ST TO SR 49	58	68	0.85	0.60	Yes	-10	109
OPHIR STREET	OPHIR STREET HWY 174 TO BENNETT STREET	239	476	0.50	0.60	Yes	-237	56,125
SEARLS AVENUE	SEARLS AVE RIDGE RD TO PERSEVERANCE MINE CT (SOUTH)	119	186	0.64	0.60	Yes	-67	4,471
WEST BROAD STREET	W. BROAD ST SPRING STREET TO CHIEF KELLY DR	110	104	1.06	0.60	Yes	6	34
ZION STREET	ZION ST DOANE RD TO ARGALL WY	291	359	0.81	0.60	Yes	-68	4,690
		31,191	31,353	Model/Count Ratio = 0.99				
				Percent Within Caltrans Maximum Deviation = 88%		> 75%		
				Percent Root Mean Square Error = 28%		< 40%		
				Coefficient of Determination (R²) = 0.90		> 0.77		
				Correlation Coefficient = 0.95		> 0.88		

Check of PM Peak Hour Volumes

Roadway	Segment	Model Volume	Traffic Count	Model / Count	Maximum Deviation	Within Deviation	Model - Count	Difference Squared
STATE HIGHWAY 20	SR 20 WEST OF MOONEY FLAT RD (GATEWAY)	686	641	1.07	0.44	Yes	45	2,025
STATE HIGHWAY 49	SR 49 NORTH OF HERON RD (GATEWAY)	166	187	0.89	0.60	Yes	-21	441
STATE HIGHWAY 20	SR 20 EAST at PLACER/NEVADA COUNTY LINE (GATEWAY)	233	221	1.05	0.60	Yes	12	144
STATE HIGHWAY 174	SR 174 SE OF REDBERRY RD (GATEWAY)	563	655	0.86	0.43	Yes	-92	8,464
DOG BAR ROAD	DOG BAR RD SOUTH OF SPRINGFIELD DR (GATEWAY)	109	127	0.86	0.60	Yes	-18	324
STATE HIGHWAY 49	SR 49 OVERHILL DR TO LINNET LN (GATEWAY)	2,892	3,120	0.93	0.25	Yes	-228	51,984
STATE HIGHWAY 20	SR 20 EAST OF HARMONY RIDGE RD (GATEWAY)	362	303	1.19	0.60	Yes	59	3,444
STATE HIGHWAY 49	SR 49 W. MCKNIGHT WAY TO W. EMPIRE STREET (NORTHBOUND)	1,585	1,352	1.17	0.32	Yes	233	54,221
STATE HIGHWAY 49	SR 49 W. MCKNIGHT WAY TO W. EMPIRE STREET (SOUTHBOUND)	1,363	1,783	0.76	0.30	Yes	-420	176,498
STATE HIGHWAY 49/20	SR 20/49 GOLD FLAT RD TO SACRAMENTO ST (NORTHBOUND)	1,158	1,208	0.96	0.33	Yes	-50	2,515
STATE HIGHWAY 49/20	SR 20/49 GOLD FLAT RD TO SACRAMENTO ST (SOUTHBOUND)	1,060	1,083	0.98	0.36	Yes	-23	508
STATE HIGHWAY 20	SR-20, MILL STREET TO SR-49 (WESTBOUND)	718	788	0.91	0.41	Yes	-70	4,958
STATE HIGHWAY 20	SR-20, MILL STREET TO SR-49 (EASTBOUND)	729	493	1.48	0.60	Yes	236	55,570
STATE HIGHWAY 20	SR 20 BRIGHTON STREET TO PENN VALLEY DRIVE	1,118	1,364	0.82	0.32	Yes	-246	60,714
STATE HIGHWAY 20	SR 20 SR 49 TO NEVADA STREET/MANZANITA DIGGINS DR	469	363	1.29	0.60	Yes	106	11,332
STATE HIGHWAY 20	SR-20 PLEASANT VALLEY RD. TO PENN VALLEY DR.	787	665	1.18	0.43	Yes	122	14,923
STATE HIGHWAY 20	SR-20 Pleasant Valley Road to Rough & Ready Hwy	1,016	1,204	0.84	0.33	Yes	-188	35,368
STATE HIGHWAY 49	SR 49 PINGREE ROAD TO LITTLE VALLEY ROAD	2,191	1,950	1.12	0.28	Yes	241	58,283
STATE HIGHWAY 49	SR 49 WOODRIDGE DR TO COMBIE RD	2,929	2,440	1.20	0.26	Yes	489	239,330
STATE HIGHWAY 49	SR 49 COMBIE RD TO CAMEO DR	2,215	1,924	1.15	0.28	Yes	291	84,651
STATE HIGHWAY 49	SR 49 MEADOWBROOK COURT TO ALTA SIERRA DRIVE	2,216	2,001	1.11	0.28	Yes	215	46,378
STATE HIGHWAY 49	SR 49 CRESTVIEW DRIVE TO W. MCKNIGHT WAY	2,076	2,248	0.92	0.27	Yes	-172	29,512
BENNETT STREET	BENNETT STREET TINLOY STREET TO HANSEN WAY	620	599	1.03	0.45	Yes	21	421
BENNETT STREET	BENNETT STREET TINLOY STREET TO E. MAIN STREET	779	572	1.36	0.45	Yes	207	42,888
BRUNSWICK ROAD	BRUNSWICK RD. NEVADA CITY HWY TO MALTMAN DR.	1,263	1,624	0.78	0.30	Yes	-361	130,177
COLFAX AVENUE	SR 174 CENTRAL AVE TO OPHIR ST	430	375	1.15	0.60	Yes	55	3,047
EAST MAIN STREET	NEV CTY HWY SW. OF BRUNSWICK RD	679	1,019	0.67	0.37	Yes	-340	115,747
EAST MCKNIGHT WAY	West McKnight Way NB SR 49 Ramps to La Barr Meadows	1,503	1,138	1.32	0.35	Yes	365	133,457
MILL STREET	Mill Street SR 20 Ramps to French Avenue	652	513	1.27	0.47	Yes	139	19,412
MILL STREET	Mill Street McCourtney Road to SR 20 Ramps	897	859	1.04	0.39	Yes	38	1,453
NEVADA CITY HIGHWAY	NEV. CTY HWY NE. OF BRUNSWICK RD	1,071	1,319	0.81	0.32	Yes	-248	61,735
SOUTH AUBURN STREET	South Auburn Street, between Badger and Adams	613	442	1.39	0.60	Yes	171	29,171
STATE HIGHWAY 174	SR 174 PARTRIDGE RD TO EMPIRE MINE CROSS RD	308	428	0.72	0.60	Yes	-120	14,378
STATE HIGHWAY 174	SR 174 GOLD HILL DR TO RACE ST	353	571	0.62	0.45	Yes	-218	47,473
STATE HIGHWAY 174	SR 174 BRUNSWICK RD TO LOS CENDROS LN	990	868	1.14	0.39	Yes	122	14,867
STATE HIGHWAY 174	SR 174 E. EMPIRE STREET OT CHURCH ENTRANCE	574	714	0.80	0.42	Yes	-140	19,561
STATE HIGHWAY 49	SR 49 W. BROAD ST/CEMENT HILL RD TO ELKS LODGE ENTRANCE	518	604	0.86	0.44	Yes	-86	7,321
STATE HIGHWAY 49	SR 49 SR 20 TO COYOTE STREET	1,007	1,100	0.92	0.36	Yes	-93	8,630
STATE HIGHWAY 49	SR 49 NEWTON RD TO JOHN BARLEYCORN RD	390	423	0.92	0.60	Yes	-33	1,076
WEST EMPIRE STREET	W EMPIRE ST LE DUC ST TO S AUBURN ST	173	445	0.39	0.60	No	-272	74,130
WEST MCKNIGHT WAY	West McKnight Way Freeman to Taylorville	1,167	873	1.34	0.39	Yes	294	86,333
GOLD FLAT ROAD	GOLD FLAT RD HAWKE LN TO HOLLOW WY	210	229	0.92	0.60	Yes	-19	352
MCCOURTNEY ROAD	McCourtney Road SR 20 Ramps to Mill Street	778	766	1.02	0.41	Yes	12	145
BENNETT STREET	BENNETT ST HENDERSON ST TO OPHIR ST	269	544	0.49	0.46	No	-275	75,807
COYOTE STREET	COYOTE ST CHURCH ST TO WASHINGTON ST	463	157	2.94	0.60	No	306	93,469
EAST BROAD STREET	E. BROAD ST MAIN ST TO SR 49	75	160	0.47	0.60	Yes	-85	7,282
OPHIR STREET	OPHIR STREET HWY 174 TO BENNETT STREET	326	437	0.75	0.60	Yes	-111	12,343
SEARLS AVENUE	SEARLS AVE RIDGE RD TO PERSEVERANCE MINE CT (SOUTH)	247	462	0.54	0.60	Yes	-215	46,057
WEST BROAD STREET	W. BROAD ST SPRING STREET TO CHIEF KELLY DR	243	249	0.98	0.60	Yes	-6	38
ZION STREET	ZION ST DOANE RD TO ARGALL WY	491	531	0.92	0.46	Yes	-40	1,604
		43,730	44,141	Model/Count Ratio = 0.99				
				Percent Within Caltrans Maximum Deviation = 94%		> 75%		
				Percent Root Mean Square Error = 23%		< 40%		
				Coefficient of Determination (R²) = 0.92		> 0.77		
				Correlation Coefficient = 0.96		> 0.88		