



El Dorado County Travel Demand Model

2012 UPDATE

Model Documentation

Final

October 14, 2013

Prepared for



Prepared by



Kimley-Horn
and Associates, Inc.

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PUBLIC COMMENT



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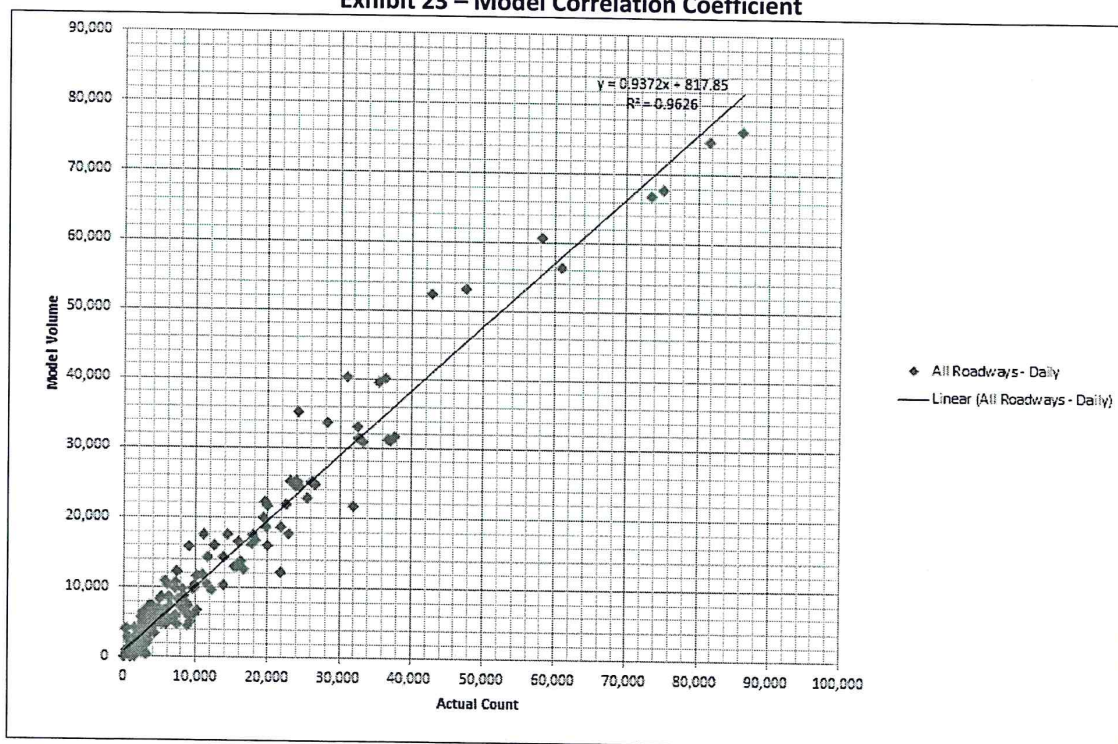
Exhibit 22 – Validation Criteria by Roadway Classification

Roadway Classification	Link Code (CAPCLASS)	Percent Error Target	Percent RMSE Target
Freeway	1,8	+/- 7%	15%
Major Arterial	3	+/- 10%	40%
Minor Arterial	4	+/- 15%	40%
Rural Arterial	24	+/- 15%	50%
Collector	5	+/- 25%	50%
All Roads	N/A	+/- 10%	35%

2.6.3 Correlation Coefficient

The scatter plot in **Exhibit 23** graphs the model volume for each roadway link and the corresponding traffic count using a linear regression to show the relationship between the two. The model volumes and the actual counts have a positive correlation as shown by the slope of the trend line. The correlation coefficient for the overall model is 0.981, which indicates a strong relationship between the two variables and exceeds the targeted criteria of 0.88. The R^2 for the overall model is 0.963, which indicates that the model volumes and the actual counts are good predictors of each other.

Exhibit 23 – Model Correlation Coefficient



2.6.4 Roadway Classification

The validation of the daily traffic assignment by roadway classification is summarized in the tables that follow. The percent error and percent RMSE targets refer to the recommended limits adopted from FHWA and Caltrans guidelines. **Exhibit 24** summarizes the validation of the daily assignment by roadway classification. The EDC TDM meets all of the validation targets for allowable error by roadway classification. The overall model has a percent error 1.3%, which is well within the targeted limit of 10%.

Exhibit 24 – Percent Error by Roadway Classification

Roadway Classification	# Counts	Model	Observed	Difference	Percent Error	Target
Freeways	28	1,086,286	1,106,780	-20,494	-1.9%	+/- 7%
Major Arterials	24	406,079	432,498	-26,419	-6.1%	+/- 10%
Minor Arterials	15	146,016	148,257	-2,241	-1.5%	+/- 15%
Rural Arterials	105	632,282	544,410	87,872	16.1%	+/- 15%
Collectors	45	110,668	119,627	-8,959	-7.5%	+/- 25%
ALL	217	2,381,331	2,351,572	29,759	1.3%	+/- 10%

Exhibit 25 summaries the validation of the daily assignment according to the percent RMSE limits per roadway classification. The EDC TDM meets all of the validation targets for percent RMSE by roadway classification. The overall model has a percent RMSE of 25%, which is within the targeted limit of 35%.

Exhibit 25 – Percent RMSE by Roadway Classification

Roadway Classification	#Counts	Percent RMSE	Target	RMSE
Freeways	28	9%	15%	3701.47
Major Arterials	24	25%	40%	4554.60
Minor Arterials	15	26%	40%	2585.31
Rural Arterials	105	33%	40%	1719.21
Collectors	45	45%	50%	1207.86
ALL	217	25%	35%	2656.64

2.6.5 Screen Lines

The daily traffic assignment was validated at five screen line locations shown in **Exhibit 26**. A screen line represents a group of individual links that are bisected by an imaginary line. Analysis of the traffic assignment using screen lines allows for evaluating traffic flows in subareas of the model area in a directional basis. The model volumes and the actual counts on the links that constitute the screen line are evaluated by comparing the percent error to the allowable limits recommended by NCHRP 255.

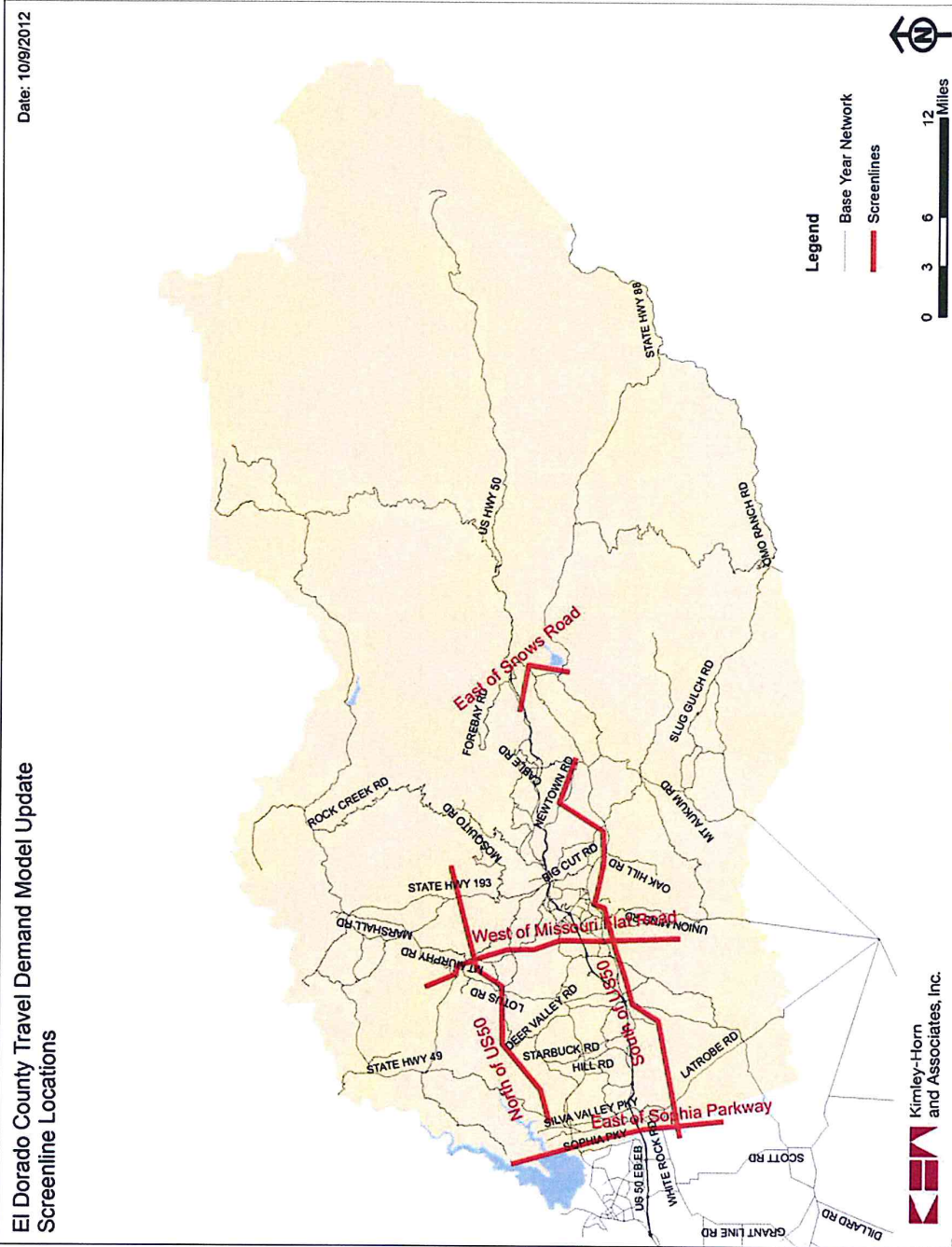


Exhibit 26 – Screen Line Locations

Exhibit 27 summarizes the validation of the daily assignment using screen lines. All five of the screen lines are within the allowable deviation using the NCHRP 255 limits.

Exhibit 27 – Percent Error by Screen Line

Screen Line	Description	Model Volume	Observed	Percent Error	NCHRP 255 Limit
1	S/O US50	50,191	45,127	11.22%	32.58%
2	E/O Sophia Parkway	140,777	128,951	9.17%	22.58%
3	N/O US50	21,673	16,945	27.90%	45.87%
4	W/O Missouri Flat Rd	84,644	80,430	5.24%	26.63%
5	E/O Snows Rd	34,873	27,946	24.79%	38.52%

2.6.6 Roadway Links

The daily traffic assignment for individual roadway links was analyzed for 219 count locations. The model volumes and the actual counts on the links are evaluated by comparing the percent error to the allowable limits recommended by NCHRP 255. The table below shows the roadway links at the count locations and how the percent error compared to limits according to NCHRP 255 criteria.

As shown in **Exhibit 28**, of the 217 count locations, 174 or 80% of the links are within the limits for percent error.

Exhibit 28 – Percent Error for all Roadway Links

A-B Node Pair	Classification	Roadway	Location	Traffic Count	Model Volume	Percent Error	NCHRP 255 Limit	Within Limit?
14331434	Freeways	US50 - EB Mixed Flow	W. of Zinfandel Dr	81,715	74,738	-8.54%	±15.0%	YES
14301431	Freeways	US50 - WB Mixed Flow	W. of Zinfandel Dr	86,271	76,371	-11.48%	±14.7%	YES
12691270	Freeways	US50 - EB Mixed Flow	E. of Zinfandel Dr	75,274	67,844	-9.87%	±15.5%	YES
12711272	Freeways	US50 - WB Mixed Flow	E. of Zinfandel Dr	73,524	66,810	-9.13%	±15.6%	YES
15181211	Freeways	US50 - EB Mixed Flow	W. of Hazel Ave	61,006	56,376	-7.59%	±18.0%	YES
12101514	Freeways	US50 - WB Mixed Flow	W. of Hazel Ave	58,218	60,630	4.14%	±18.7%	YES
15651764	Freeways	US50 - EB Mixed Flow	W. of Prairie City Rd	36,833	31,280	-15.08%	±23.5%	YES
17691566	Freeways	US50 - WB Mixed Flow	W. of Prairie City Rd	28,463	33,705	18.42%	±24.9%	YES
18051806	Freeways	US50 - EB Mixed Flow	E. of Prairie City Rd	37,239	31,040	-16.65%	±23.4%	YES
18021803	Freeways	US50 - WB Mixed Flow	E. of Prairie City Rd	37,792	31,757	-15.97%	±23.2%	YES
20352036	Freeways	US50 - EB Mixed Flow	W. of Latrobe Rd	42,950	52,374	21.94%	±22.1%	YES
20332034	Freeways	US50 - WB Mixed Flow	W. of Latrobe Rd	47,817	53,140	11.13%	±21.0%	YES
20262027	Freeways	US50 - EB Mixed Flow	W. of Bass Lake Rd	35,639	39,548	10.97%	±23.7%	YES
20232024	Freeways	US50 - WB Mixed Flow	W. of Bass Lake Rd	36,492	40,108	9.91%	±23.5%	YES
19951996	Freeways	US50 - EB Mixed Flow	W. of Cameron Park Dr	32,734	31,531	-3.68%	±24.4%	YES
19901991	Freeways	US50 - WB Mixed Flow	W. of Cameron Park Dr	32,563	33,162	1.84%	±24.4%	YES
22642265	Freeways	US50 - EB Mixed Flow	W. of Ponderosa Rd	33,013	31,325	-5.11%	±24.3%	YES
22662267	Freeways	US50 - WB Mixed Flow	W. of Ponderosa Rd	33,272	30,904	-7.12%	±24.3%	YES
19992000	Freeways	US50 - EB Mixed Flow	W. of Shingle Springs Dr	26,750	24,771	-7.40%	±25.5%	YES
19971998	Freeways	US50 - WB Mixed Flow	W. of Shingle Springs Dr	26,270	25,005	-4.82%	±25.7%	YES
23872369	Freeways	US50 - EB Mixed Flow	W. of Greenstone Rd	24,491	24,609	0.48%	±26.3%	YES
23852386	Freeways	US50 - WB Mixed Flow	W. of Greenstone Rd	24,240	24,987	3.08%	±26.4%	YES
23702371	Freeways	US50 - EB Mixed Flow	E. of Greenstone	24,210	24,941	3.02%	±26.5%	YES
23752376	Freeways	US50 - WB Mixed Flow	E. of Greenstone	23,760	24,990	5.18%	±26.6%	YES
19461947	Freeways	US50 - EB Mixed Flow	W. of Missouri Flat	23,325	25,080	7.52%	±26.8%	YES
19441945	Freeways	US50 - WB Mixed Flow	W. of Missouri Flat	23,197	25,316	9.13%	±26.9%	YES
25722573	Freeways	US50 - EB Mixed Flow	W. of Placerville Dr	19,672	22,270	13.21%	±28.5%	YES
25742575	Freeways	US50 - WB Mixed Flow	W. of Placerville Dr	20,051	21,674	8.09%	±28.3%	YES
22771975	Major Arterial	Cameron Park Dr	300 yds S of Hacienda Dr	18,103	17,461	-3.55%	±29.4%	YES
22381983	Major Arterial	Cameron Park Dr	200 ft N of Oxford Rd	16,720	12,651	-24.34%	±30.3%	YES
20922089	Major Arterial	El Dorado Hills Bl	200 ft S of Saratoga Wy	31,136	40,259	29.30%	±24.7%	NO
19891988	Major Arterial	El Dorado Hills Bl	100 ft S of Wilson Bl	22,569	21,846	-3.20%	±27.1%	YES

A-B Node Pair	Classification	Roadway	Location	Traffic Count	Model Volume	Percent Error	NCHRP 255 Limit	Within Limit?
21991989	Major Arterial	El Dorado Hills Bl	100 ft S of Olson Ln	21,931	18,708	-14.70%	±27.4%	YES
22022199	Major Arterial	El Dorado Hills Bl	10 ft N of Olson Ln	19,819	18,708	-5.61%	±28.4%	YES
31282169	Major Arterial	El Dorado Hills Bl	100 ft N of Harvard Wy	17,776	16,320	-8.19%	±29.6%	YES
21872159	Major Arterial	El Dorado Hills Bl	300 ft S of Francisco Dr	15,893	13,107	-17.53%	±30.8%	YES
21842161	Major Arterial	El Dorado Hills Bl	100 ft S of Green Vly Rd	5,109	5,331	4.35%	±46.5%	YES
21902185	Major Arterial	Francisco Dr	200 ft S of Green Valley Rd	12,406	9,680	-21.97%	±33.7%	YES
21822179	Major Arterial	Green Valley Rd	200 ft W of Mormon Island Dr	26,517	24,995	-5.74%	±25.6%	YES
21822176	Major Arterial	Green Valley Rd	200 ft E of Mormon Island Dr	26,232	24,995	-4.72%	±25.7%	YES
21892185	Major Arterial	Green Valley Rd	200 ft E of Francisco Dr	18,470	16,836	-8.85%	±29.2%	YES
20852078	Major Arterial	Latrobe Rd	300 ft N of White Rock Rd	24,389	35,331	44.86%	±26.4%	NO
26202618	Major Arterial	Missouri Flat Rd	100 ft N of SR 49	16,391	13,839	-15.57%	±30.5%	YES
26722570	Major Arterial	Missouri Flat Rd	100 ft S of China Garden Rd	20,110	16,114	-19.87%	±28.3%	YES
26702668	Major Arterial	Missouri Flat Rd	S of Forni Rd	22,963	17,772	-22.61%	±27.0%	YES
26682644	Major Arterial	Missouri Flat Rd	400 yds N of Forni Rd	31,992	21,767	-31.96%	±24.6%	NO
26562654	Major Arterial	Missouri Flat Rd	100 ft S of Plaza Dr	21,884	12,327	-43.67%	±27.4%	NO
26562655	Major Arterial	Missouri Flat Rd	100 ft N of Plaza Dr	7,611	12,327	61.96%	±40.3%	NO
26271927	Major Arterial	Missouri Flat Rd	300 ft S of El Dorado Rd	9,097	7,442	-18.19%	±37.7%	YES
19681965	Major Arterial	North Shingle Rd	400 yds E of Ponderosa Rd	7,711	8,269	7.24%	±40.1%	YES
23532352	Major Arterial	North Shingle Rd	100 ft S of Green Valley Rd	5,848	5,600	-4.24%	±44.3%	YES
22982294	Major Arterial	South Shingle Rd	100 ft S of Mother Lode Dr	11,821	14,394	21.77%	±34.3%	YES
22822279	Minor Arterial	Cameron Park Dr	100 ft N of Robin Ln	9,203	15,775	71.41%	±37.6%	NO
22731970	Minor Arterial	Cameron Park Dr	100 ft N of Coach Ln	25,703	22,804	-11.28%	±25.9%	YES
22462237	Minor Arterial	Cameron Park Dr	200 yds N of Mira Loma Dr	13,991	10,365	-25.92%	±32.3%	YES
22312220	Minor	Cameron Park Dr	200 yds S of Green	9,849	10,406	5.66%	±36.7%	YES

A-B Node Pair	Classification	Roadway	Location	Traffic Count	Model Volume	Percent Error	NCHRP 255 Limit	Within Limit?
	Arterial		Valley Rd					
21312129	Minor Arterial	Country Club Dr	0.1 mi E of Merrychase Dr	2,482	5,766	132.31%	±60.5%	NO
22822276	Minor Arterial	Durock Rd	50 ft S of Robin Ln	6,159	10,450	69.67%	±43.5%	NO
22842277	Minor Arterial	Palmer Dr	100 ft E of Cameron Park Dr	8,899	7,849	-11.80%	±38.0%	YES
21952006	Minor Arterial	Serrano Pkwy	450 ft E of Silva Valley Pkwy	10,958	11,917	8.75%	±35.3%	YES
20062005	Minor Arterial	Silva Valley Pkwy	100 ft S of Serrano Pkwy	7,341	5,996	-18.32%	±40.8%	YES
31272006	Minor Arterial	Silva Valley Pkwy	100 ft N of Serrano Pkwy	10,008	6,170	-38.35%	±36.5%	NO
22032197	Minor Arterial	Silva Valley Pkwy	100 ft S of Harvard Wy	9,193	5,947	-35.31%	±37.6%	YES
21972196	Minor Arterial	Silva Valley Pkwy	100 ft N of Harvard Wy	7,308	5,967	-18.35%	±40.9%	YES
22072162	Minor Arterial	Silva Valley Pkwy	100 ft S of Green Valley Rd	6,060	6,796	12.15%	±43.7%	YES
21722171	Minor Arterial	Sophia Pkwy	200 ft S of Green Valley Rd	5,666	6,846	20.83%	±44.8%	YES
20882085	Minor Arterial	White Rock Rd	100 ft E of Latrobe Rd	15,437	12,962	-16.03%	±31.1%	YES
28822856	Collector	Barkley Rd	50 ft N of Carson Rd	1,056	2,714	157.01%	±82.4%	NO
27392738	Collector	Bedford Av	At City Limits	467	668	43.04%	±110.8%	YES
25572511	Collector	Big Cut Rd	100 ft N of Pleasant Vly Rd	971	656	-32.44%	±85.0%	YES
27622452	Collector	Bucks Bar Rd	50 ft S of Pleasant Vly Rd	5,018	5,201	3.65%	±46.8%	YES
28112805	Collector	Bucks Bar Rd	300 ft N of Mt Aukum Rd	3,756	4,707	25.32%	±52.0%	YES
26232930	Collector	China Garden Rd	150 ft N of SR 49	968	551	-43.08%	±85.1%	YES
26722671	Collector	China Garden Rd	200 yds E of Missouri Flat Rd	3,588	3,930	9.53%	±52.9%	YES
24042403	Collector	El Dorado Rd	200 yds N of Pleasant Vly Rd	2,490	1,708	-31.41%	±60.4%	YES
26132597	Collector	Enterprise Dr	100 ft E of Forni Rd	3,042	436	-85.67%	±56.2%	NO
28092477	Collector	Fairplay Rd	100 ft S of Mt Aukum Rd	2,109	2,322	10.10%	±64.1%	YES
31023087	Collector	Forebay Rd	100 ft N of Pony Express Tr	1,930	2,991	54.97%	±66.2%	YES
26002599	Collector	Forni Rd	200 ft N of SR 49	3,318	357	-89.24%	±54.4%	NO
26682667	Collector	Forni Rd	300 ft W of Missouri Flat Rd	8,928	4,544	-49.10%	±38.0%	NO
26342625	Collector	Forni Rd	30 ft W of Arroyo	1,709	1,491	-12.76%	±69.2%	YES

A-B Node Pair	Classification	Roadway	Location	Traffic Count	Model Volume	Percent Error	NCHRP 255 Limit	Within Limit?
Vista Wy								
27042588	Collector	Forni Rd	W of P-ville Dr @ City Limits	1,285	1,208	-5.99%	±76.8%	YES
22892255	Collector	French Creek Rd	300 ft S of Mother Lode Dr	2,892	3,177	9.85%	±57.2%	YES
30233022	Collector	Garden Valley Rd	300 ft N of SR 193	468	958	104.70%	±110.8%	YES
29922990	Collector	Garden Valley Rd	0.45 mi S of Marshall Rd	1,456	695	-52.27%	±73.4%	YES
29932991	Collector	Greenwood Rd	100 ft W of Marshall Rd	1,437	1,248	-13.15%	±73.7%	YES
29742973	Collector	Greenwood Rd	0.03 mi S of SR 193	1,134	76	-93.30%	±80.3%	NO
22012169	Collector	Harvard Wy	0.15 mi E of El Dorado Hills Bl	6,417	8,790	36.98%	±42.8%	YES
21972194	Collector	Harvard Wy	200 ft W of Silva Valley Pkwy	5,987	5,898	-1.49%	±43.9%	YES
26222583	Collector	Lime Kiln Rd	100 ft E of China Garden Rd	2,145	3,706	72.77%	±63.7%	NO
22382009	Collector	Meder Rd	300 ft E of Cameron Park Dr	5,623	4,890	-13.04%	±44.9%	YES
23462336	Collector	Meder Rd	200 yds W of Ponderosa Rd	4,340	3,496	-19.45%	±49.4%	YES
27772773	Collector	Mosquito Rd	300 ft S of Union Ridge Rd	1,907	2,187	14.68%	±66.5%	YES
27672765	Collector	Mosquito Rd	At American River Br	1,211	1,452	19.90%	±78.4%	YES
28432831	Collector	Newtown Rd	200 yds N of Pleasant Vly Rd	2,758	3,156	14.43%	±58.2%	YES
27552753	Collector	Oak Hill Rd	300 ft S of Pleasant Vly Rd	2,037	1,351	-33.68%	±65.0%	YES
26022595	Collector	Patterson Dr	200 ft S of Pleasant Vly Rd	4,218	5,174	22.66%	±49.9%	YES
23462345	Collector	Ponderosa Rd	100 ft N of Meder Rd	1,454	950	-34.66%	±73.4%	YES
23562351	Collector	Ponderosa Rd	100 ft S of Green Valley Rd	949	935	-1.48%	±85.7%	YES
27212509	Collector	Rock Creek Rd	100 ft E of SR 193	224	9	-95.98%	±144.7%	YES
28132812	Collector	Sand Ridge Rd	100 ft W of Bucks Bar Rd	1,274	1,125	-11.70%	±77.0%	YES
20061972	Collector	Serrano Pkwy	250 ft W of Silva Valley Pkwy	8,430	8,839	4.85%	±38.8%	YES
29712969	Collector	Sliger Mine Rd	50 ft N of SR 193	873	654	-25.09%	±88.3%	YES
28502840	Collector	Snows Rd	400 ft N of Newtown Rd	928	1,413	52.26%	±86.4%	YES
29012852	Collector	Snows Rd	200 ft S of Carson Rd	2,296	1,678	-26.92%	±62.2%	YES
21091980	Collector	South Shingle Rd	0.5 mi E of Latrobe Rd	899	2,547	183.31%	±87.4%	NO
22712270	Collector	South Shingle Rd	100 ft N of Barnett	2,629	3,530	34.27%	±59.2%	YES

A-B Node Pair	Classification	Roadway	Location	Traffic Count	Model Volume	Percent Error	NCHRP 255 Limit	Within Limit?
			Ranch Rd					
22222220	Collector	Starbuck Rd	110 ft N of Green Valley Rd	1,676	1,467	-12.47%	±69.7%	YES
27692768	Collector	Union Ridge Rd	100 ft W of Hassler Rd	513	375	-26.90%	±107.1%	YES
30473016	Collector	Wentworth Springs Rd	100 ft W of Quintette Rd	740	477	-35.54%	±93.8%	YES
20792077	Collector	White Rock Rd	100 ft S of Silva Valley Pkwy	10,377	6,824	-34.24%	±36.0%	YES
30613060	Collector	Icehouse Rd	300 ft N of US 50	1,700	107	-93.71%	±69.4%	NO
21192021	Rural Arterial	Bass Lake Rd	400 yd N of Country Club Dr	9,832	9,746	-0.87%	±36.7%	YES
22402221	Rural Arterial	Bass Lake Rd	100 yd S of Green Vly Rd	5,349	8,610	60.96%	±45.8%	NO
29641014	Rural Arterial	Bassi Rd	200 ft W of Lotus Rd	1,090	588	-46.06%	±81.5%	YES
25122505	Rural Arterial	Broadway	At City Limits	4,118	5,362	30.21%	±50.3%	YES
21342133	Rural Arterial	Cambridge Rd	At US 50 OC	9,287	5,120	-44.87%	±37.5%	NO
21262125	Rural Arterial	Cambridge Rd	300 ft S of Country Club Dr.	8,405	8,761	4.24%	±38.8%	YES
21392125	Rural Arterial	Cambridge Rd	100 ft N of Country Club Dr	8,145	7,109	-12.72%	±39.3%	YES
22422236	Rural Arterial	Cambridge Rd	300 yds N of Oxford Rd	5,030	6,629	31.79%	±46.8%	YES
22412215	Rural Arterial	Cambridge Rd	300 ft S of Green Valley Rd	4,481	6,820	52.20%	±48.8%	NO
27762774	Rural Arterial	Carson Rd	0.6 Mi E of City Limits	2,015	1,909	-5.26%	±65.2%	YES
28752870	Rural Arterial	Carson Rd	300 yds E of Gatlin Rd	1,479	806	-45.50%	±73.0%	YES
28672864	Rural Arterial	Carson Rd	At Carson Ct	1,962	533	-72.83%	±65.8%	NO
28842856	Rural Arterial	Carson Rd	100 ft W of Barkley Rd	3,436	5,280	53.67%	±53.7%	YES
28962892	Rural Arterial	Carson Rd	100 ft E of Ponderosa Wy	2,610	562	-78.47%	±59.4%	NO
27522749	Rural Arterial	Cedar Ravine Rd	0.1 Mi N of Pleasant Vly Rd	1,891	2,355	24.54%	±66.7%	YES
27592544	Rural Arterial	Cedar Ravine Rd	0.25 Mi S of Country Club Dr	2,603	2,829	8.68%	±59.4%	YES
27312730	Rural Arterial	Cold Springs Rd	At City Limits	4,094	4,699	14.78%	±50.4%	YES
24412440	Rural Arterial	Cold Springs Rd	300 yds S of Gold Hill Rd	3,177	2,584	-18.67%	±55.3%	YES
24472445	Rural Arterial	Cold Springs Rd	100 ft S of SR 153	1,952	2,249	15.22%	±66.0%	YES
21112021	Rural Arterial	Country Club Dr	0.4 mi E of Bass Lake Rd	3,706	7,356	98.49%	±52.3%	NO
21282124	Rural Arterial	Country Club Dr	0.15 mi W of Knollwood Dr	3,659	3,835	4.81%	±52.5%	YES
21362125	Rural Arterial	Country Club Dr	300 yds E of Cambridge Rd	3,064	4,671	52.45%	±56.0%	YES

A-B Node Pair	Classification	Roadway	Location	Traffic Count	Model Volume	Percent Error	NCHRP 255 Limit	Within Limit?
22832278	Rural Arterial	Country Club Dr	0.2 mi W of Cameron Park Dr	4,044	5,014	23.99%	±50.6%	YES
22982297	Rural Arterial	Durock Rd	50 ft W of S Shingle Rd	5,905	10,957	85.55%	±44.1%	NO
24261910	Rural Arterial	El Dorado Rd	0.2 mi S of US 50	5,092	5,819	14.28%	±46.6%	YES
24282425	Rural Arterial	El Dorado Rd	0.11 N of US 50	2,352	3,557	51.23%	±61.6%	YES
19391927	Rural Arterial	El Dorado Rd	50 ft N of Missouri Flat Rd	2,751	4,943	79.68%	±58.2%	NO
21852177	Rural Arterial	Francisco Dr	200 ft N of Green Valley Rd	14,038	14,292	1.81%	±32.2%	YES
21922191	Rural Arterial	Francisco Dr	100 ft S of Sheffield Dr	2,606	1,314	-49.58%	±59.4%	YES
21932192	Rural Arterial	Francisco Dr	300 yds N of Sheffield Dr	981	1,314	33.94%	±84.7%	YES
23602324	Rural Arterial	Gold Hill Rd	100 ft E of Lotus Rd	1,860	2,001	7.58%	±67.1%	YES
24432440	Rural Arterial	Gold Hill Rd	200 ft W of Cold Springs Rd	1,829	1,875	2.52%	±67.5%	YES
24382437	Rural Arterial	Gold Hill Rd	100 yds E of Cold Springs Rd	485	722	48.87%	±109.3%	YES
21711046	Rural Arterial	Green Valley Rd	200 ft W of Sophia Pkwy	23,977	24,523	2.28%	±26.5%	YES
21812180	Rural Arterial	Green Valley Rd	200 ft E of Sophia Pkwy	24,135	25,184	4.35%	±26.5%	YES
21622161	Rural Arterial	Green Valley Rd	300 ft W of Silva Valley Pkwy	14,594	17,547	20.23%	±31.8%	YES
22212214	Rural Arterial	Green Valley Rd	200 ft W of Bass Lake Rd	10,242	11,655	13.80%	±36.1%	YES
22212215	Rural Arterial	Green Valley Rd	300 ft W of Cameron Park Dr	11,206	17,515	56.30%	±35.0%	NO
22502218	Rural Arterial	Green Valley Rd	300 ft E of La Crescenta Dr	6,402	8,454	32.05%	±42.9%	YES
23412334	Rural Arterial	Green Valley Rd	500 ft E of Deer Valley Rd (E)	4,884	6,996	43.24%	±47.3%	YES
23592350	Rural Arterial	Green Valley Rd	300 ft W of Lotus Rd	7,414	10,829	46.06%	±40.6%	NO
24012399	Rural Arterial	Green Valley Rd	100 ft W of Greenstone Rd	4,075	5,171	26.90%	±50.5%	YES
24232422	Rural Arterial	Green Valley Rd	400 ft W of Campus Dr	4,462	5,552	24.43%	±48.9%	YES
24232420	Rural Arterial	Green Valley Rd	200 ft W of Missouri Flat Rd	6,357	5,552	-12.66%	±43.0%	YES
19301929	Rural Arterial	Green Valley Rd	100 ft W of Weber Creek Br	3,952	7,352	86.03%	±51.1%	NO
23952383	Rural Arterial	Greenstone Rd	300 ft N of Mother Lode Dr	1,284	926	-27.88%	±76.8%	YES
23972368	Rural Arterial	Greenstone Rd	0.20 mi N of US 50	2,784	4,305	54.63%	±58.0%	YES
28062805	Rural Arterial	Grizzly Flat Rd	200 yds E of Mt	2,335	2,077	-11.05%	±61.8%	YES

A-B Node Pair	Classification	Roadway	Location	Traffic Count	Model Volume	Percent Error	NCHRP 255 Limit	Within Limit?
			Aukum Rd					
21662160	Rural Arterial	Lake Hills Dr	100 ft N of Salmon Falls Rd	3,202	1,852	-42.16%	±55.1%	YES
19631962	Rural Arterial	Latrobe Rd	250 ft N of County Line	3,395	6,955	104.86%	±54.0%	NO
21081980	Rural Arterial	Latrobe Rd	1.5 mi N of S Shingle Rd	3,559	6,997	96.60%	±53.0%	NO
19641963	Rural Arterial	Latrobe Rd	At Deer Creek Bridge	4,526	6,955	53.67%	±48.6%	NO
20722025	Rural Arterial	Latrobe Rd	100 ft S of Investment Bl	5,150	8,407	63.24%	±46.4%	NO
20732072	Rural Arterial	Latrobe Rd	100 ft N of Investment Bl	8,075	7,436	-7.91%	±39.4%	YES
20422041	Rural Arterial	Latrobe Rd	100 ft N of Golden Foothill Pw	19,514	20,048	2.74%	±28.6%	YES
23572350	Rural Arterial	Lotus Rd	300 ft N of Green Valley Rd	7,386	9,813	32.86%	±40.7%	YES
23602314	Rural Arterial	Lotus Rd	300 ft S of Thompson Hill Rd	5,103	5,945	16.50%	±46.5%	YES
29872984	Rural Arterial	Lotus Rd	0.25 mi S of SR 49	5,186	5,870	13.19%	±46.3%	YES
23622360	Rural Arterial	Luneman Rd	100 ft W of Lotus Rd	2,387	2,850	19.40%	±61.3%	YES
29852968	Rural Arterial	Marshall Rd	200 yds E of SR 49	3,495	3,289	-5.89%	±53.4%	YES
29942992	Rural Arterial	Marshall Rd	300 ft E of Garden Valley Rd	4,383	4,479	2.19%	±49.2%	YES
30353034	Rural Arterial	Marshall Rd	300 yds S of Lower Main St	643	2,861	344.95%	±98.7%	NO
19271926	Rural Arterial	Missouri Flat Rd	300 ft N of El Dorado Rd	7,442	4,696	-36.90%	±40.6%	YES
30773075	Rural Arterial	Mormon Emigrant Tr	100 ft E of Sly Park Rd	1,108	2,027	82.94%	±81.0%	NO
25402539	Rural Arterial	Mosquito Rd	At City Limits	3,501	5,943	69.75%	±53.4%	NO
23002287	Rural Arterial	Mother Lode Dr	200 ft W of Sunset Ln	12,659	16,120	27.34%	±33.5%	YES
24122408	Rural Arterial	Mother Lode Dr	400 yds W of Pleasant Valley Rd	8,303	9,899	19.22%	±39.0%	YES
24122409	Rural Arterial	Mother Lode Dr	0.43 mi E of Pleasant Valley Rd	3,558	2,507	-29.54%	±53.1%	YES
1922668	Rural Arterial	Mt Aukum Rd	0.25 mi N of County Line	1,764	356	-79.82%	±68.4%	NO
28082805	Rural Arterial	Mt Aukum Rd	300 ft S of Bucks Bar Rd	3,695	4,493	21.60%	±52.3%	YES
28472846	Rural Arterial	Mt Aukum Rd	300 ft S of Pleasant Vly Rd	2,949	3,717	26.04%	±56.8%	YES
29832980	Rural Arterial	Mt Murphy Rd	50 ft S of Marshall Rd	1,130	2,510	122.12%	±80.4%	NO
29881010	Rural Arterial	Mt Murphy Rd	200 yds N of SR 49	302	4,023	1232.12%	±129.8%	NO
24632455	Rural Arterial	Newtown Rd	200 yds N of Pioneer Hill Rd	2,696	3,607	33.79%	±58.7%	YES

A-B Node Pair	Classification	Roadway	Location	Traffic Count	Model Volume	Percent Error	NCHRP 255 Limit	Within Limit?
25472546	Rural Arterial	Newtown Rd	100 ft E of Broadway	3,857	4,433	14.93%	±51.5%	YES
20082007	Rural Arterial	Old Frenchtown Rd	400 yds S of Mother Lode Dr	1,209	1,907	57.73%	±78.5%	YES
25002478	Rural Arterial	Omo Ranch Rd	100 ft E of Mt Aukum Rd	834	713	-14.51%	±89.8%	YES
22442233	Rural Arterial	Oxford Rd	50 ft E of Salida Wy	4,366	5,395	23.57%	±49.3%	YES
24122405	Rural Arterial	Pleasant Valley Rd	200 yds E of Mother Lode Dr	6,662	7,393	10.97%	±42.3%	YES
26782579	Rural Arterial	Pleasant Valley Rd	200 yds E of SR 49 (E)	15,940	16,617	4.25%	±30.8%	YES
27532506	Rural Arterial	Pleasant Valley Rd	300 ft W of Oak Hill Rd	11,569	10,659	-7.87%	±34.6%	YES
27632749	Rural Arterial	Pleasant Valley Rd	100 ft E of Cedar Ravine Rd	9,992	9,994	0.02%	±36.5%	YES
24612457	Rural Arterial	Pleasant Valley Rd	0.10 mi E of Bucks Bar Rd	5,565	5,063	-9.02%	±45.1%	YES
28432839	Rural Arterial	Pleasant Valley Rd	0.40 mi E of Newtown Rd	5,313	4,718	-11.20%	±45.9%	YES
19841968	Rural Arterial	Ponderosa Rd	300 ft N of Wild Chaparral Dr	6,894	5,248	-23.88%	±41.7%	YES
29042896	Rural Arterial	Pony Express Tr	200 yds E of Carson Rd	3,086	4,212	36.49%	±55.9%	YES
29182917	Rural Arterial	Pony Express Tr	300 ft E of Gilmore Rd	4,927	5,060	2.70%	±47.1%	YES
31043102	Rural Arterial	Pony Express Tr	300 ft W of Forebay Rd	5,989	4,651	-22.34%	±43.9%	YES
21632161	Rural Arterial	Salmon Falls Rd	50 ft S of Malcolm-Dixon Rd	7,440	12,277	65.01%	±40.6%	NO
21502149	Rural Arterial	Salmon Falls Rd	At New York Creek Bridge	2,707	6,411	136.83%	±58.6%	NO
29482943	Rural Arterial	Salmon Falls Rd	400 yds S of Pedro Hill Rd	1,673	4,261	154.69%	±69.8%	NO
29472946	Rural Arterial	Salmon Falls Rd	200 yds S of Rattlesnake Bar Rd	539	4,261	690.54%	±105.2%	NO
24961935	Rural Arterial	Sand Ridge Rd	300 ft E of SR 49	581	970	66.95%	±102.4%	YES
22292152	Rural Arterial	Serrano Pkwy	300 ft W of Bass Lake Rd	4,193	6,748	60.93%	±50.0%	NO
23182317	Rural Arterial	Shingle Springs Dr	0.20 mi S of US 50	2,391	1,514	-36.68%	±61.3%	YES
28462823	Rural Arterial	Sly Park Rd	0.35 mi E of Mt Aukum Rd	3,319	3,041	-8.38%	±54.4%	YES
30783077	Rural Arterial	Sly Park Rd	1.62 mi W of Mormon Emigrant Tr	2,241	3,160	41.01%	±62.7%	YES
30773073	Rural Arterial	Sly Park Rd	0.35 mi E of Mormon Emigrant Tr	4,034	4,912	21.76%	±50.7%	YES
31073094	Rural Arterial	Sly Park Rd	100 ft S of Gold Ridge Tr (N)	5,211	6,509	24.91%	±46.2%	YES
31033101	Rural Arterial	Sly Park Rd	100 ft S of Pony	8,579	6,609	-22.96%	±38.5%	YES

A-B Node Pair	Classification	Roadway	Location	Traffic Count	Model Volume	Percent Error	NCHRP 255 Limit	Within Limit?
Express Tr								
22902288	Rural Arterial	South Shingle Rd	100 ft S of Sunset Ln	6,054	4,924	-18.67%	±43.7%	YES
26042603	Rural Arterial	Union Mine Rd	200 yds S of SR 49	1,320	1,510	14.39%	±76.0%	YES
30293028	Rural Arterial	Wentworth Springs Rd	0.7 mi E of Main St	2,966	1,475	-50.27%	±56.7%	YES
20382037	Rural Arterial	White Rock Rd	At County Line	8,072	8,397	4.03%	±39.4%	YES
20872086	Rural Arterial	White Rock Rd	100 ft W of Latrobe Rd	10,345	11,726	13.35%	±36.0%	YES

2.6.7 Time of Day Factors

Exhibit 29 summarizes how the proportion of the daily assignment is distributed in the three hour assignments for the AM and PM peak periods. The traffic counts for each roadway classification were analyzed to determine an appropriate factor to apply to the peak period assignments to arrive at a one hour assignment for the AM and PM peak hours.

Exhibit 29 – Time of Day Factors

Roadway Classification	AM			PM		
	Observed Peak Period	% of Daily Assignment	Peak Hour Factor	Observed Peak Period	% of Daily Assignment	Peak Hour Factor
Freeways	7:00 – 9:00	21.33%	0.36	15:00 – 17:00	24.17%	0.34
Major Arterials	8:00 – 10:00	20.52%	0.35	16:00 – 18:00	24.55%	0.34
Minor Arterials	8:00 – 10:00	21.04%	0.38	16:00 – 18:00	27.61%	0.34
Rural Arterials	8:00 – 10:00	21.90%	0.36	16:00 – 18:00	26.08%	0.34
Collectors	8:00 – 10:00	22.01%	0.41	15:00 – 17:00	27.19%	0.35

2.6.8 Validation of the Peak Period Assignment

Exhibit 30 summarizes the validation of the three hour assignments for the AM and PM peak periods.

Exhibit 30 – Peak Period Validation

Roadway Classification	AM Peak Period		PM Peak Period		Percent Error		Percent RMSE	
	Model	Observed	Model	Observed	AM	PM	AM	PM
Freeways	234,902	209,829	261,827	247,226	11.9%	5.9%	27%	18%
Major Arterials	83,687	81,474	98,736	102,924	2.7%	-4.1%	27%	25%
Minor Arterials	32,089	27,056	40,100	37,204	18.6%	7.8%	34%	27%
Rural Arterials	140,011	106,148	161,464	135,031	31.9%	19.6%	46%	35%
Collectors	25,759	24,093	30,537	29,660	6.9%	3.0%	48%	52%
ALL	516,448	448,600	592,664	552,045	15.1%	7.4%	46%	33%

2.6.9 Validation of the Peak Hour Assignments

Exhibit 31 summarizes the validation of the one hour assignments for the AM and PM peak hours.

Exhibit 31 – Peak Hour Validation

Roadway Classification	AM Peak Hour		PM Peak Hour		Percent Error		Percent RMSE	
	Model	Observed	Model	Observed	AM	PM	AM	PM
Freeways	84,566	77,985	89,024	85,101	8.4%	4.6%	25%	18%
Major Arterials	29,290	29,798	33,570	36,171	-1.7%	-7.2%	25%	24%
Minor Arterials	12,194	11,613	13,632	13,045	5.0%	4.5%	34%	27%
Rural Arterials	50,407	41,377	54,896	48,003	21.8%	14.4%	47%	35%
Collectors	10,559	10,066	10,689	10,778	4.9%	-0.8%	52%	51%
ALL	187,016	170,839	201,811	193,098	9.5%	4.5%	45%	32%

#27 H.B ADSEL
Public Comment

El Dorado County
School Districts
CBEDS Retrospect
October 2010

DISTRICT	% of change from PY	2001	% of change from PY	2002	% of change from PY	2003	% of change from PY	2004	% of change from PY	2005	% of change from PY	2006	% of change from PY	2007	% of change from PY	2008	% of change from PY	2009	% of change from PY	2010	% of change from PY	enrollment change from PY
Black Oak Mine	1.1%	2,012	0.5%	2,022	0.5%	2,016	-0.3%	1,943	-3.6%	1,979	-3.6%	1,922	-2.9%	1,847	-3.9%	1,743	-5.6%	1,650	-5.3%	1,636	-0.8%	(14)
Buckeye Union	3.6%	4,100	3.4%	4,213	2.8%	4,279	1.6%	4,527	5.8%	4,623	5.8%	4,748	2.7%	4,794	1.0%	4,792	0.0%	4,744	-1.0%	4,721	-0.5%	(23)
CA Montessori Project												305	0.0%	307	0.7%	308	0.3%	331	7.5%	352	6.3%	21
Camino Union	3.8%	592	3.0%	555	-6.3%	521	-6.1%	507	-2.7%	492	-2.7%	446	-9.3%	450	0.9%	438	-2.7%	426	-2.7%	449	5.4%	23
El Dorado HS	0.7%	6,612	2.9%	6,858	3.7%	6,981	1.8%	7,248	3.8%	7,411	3.8%	7,344	-0.9%	7,284	-0.8%	7,259	-0.3%	7,061	-2.7%	6,966	-1.3%	(95)
Gold Oak	-6.2%	756	-0.4%	756	0.0%	727	-3.8%	747	2.8%	716	2.8%	695	-2.9%	692	-0.4%	633	-8.5%	589	-7.0%	550	-6.6%	(39)
Gold Trail	0.9%	645	-2.3%	645	0.0%	610	-5.4%	553	-9.3%	543	-9.3%	549	1.1%	552	0.5%	552	0.0%	542	-1.8%	541	-0.2%	(1)
Indian Diggings	44.0%	38	5.6%	36	-5.3%	40	11.1%	40	0.0%	39	0.0%	34	-12.8%	31	-8.8%	26	-16.1%	23	-11.5%	18	-21.7%	(5)
Lake Tahoe	-1.2%	5,489	-3.9%	5,238	-4.6%	5,094	-2.7%	4,771	-6.3%	4,520	-6.3%	4,291	-5.1%	4,182	-2.5%	4,077	-2.5%	3,965	-2.7%	3,878	-2.2%	(87)
Latrobe	-2.8%	192	9.7%	203	5.7%	196	-3.4%	215	9.7%	210	9.7%	202	-3.8%	197	-2.5%	181	-8.1%	178	-1.7%	171	-3.9%	(7)
Mother Lode	-3.0%	1,663	1.5%	1,611	-3.1%	1,629	1.1%	1,574	-3.4%	1,550	-3.4%	1,477	-4.7%	1,450	-1.8%	1,386	-4.4%	1,356	-2.2%	1,225	-9.7%	(131)
Pioneer	4.0%	589	-0.3%	556	-5.6%	554	-0.4%	539	-2.7%	492	-2.7%	450	-8.5%	440	-2.2%	428	-2.7%	403	-5.8%	397	-1.5%	(6)
Placerville	-0.2%	1,345	2.9%	1,304	-3.0%	1,290	-1.1%	1,294	0.3%	1,210	0.3%	1,181	-2.4%	1,140	-3.5%	1,169	2.5%	1,211	3.6%	1,258	3.9%	47
Pollock Pines	-0.5%	935	-6.6%	851	-9.0%	804	-5.5%	799	-0.6%	797	-0.6%	780	-2.1%	768	-1.5%	745	-3.0%	720	-3.4%	699	-2.9%	(21)
Rescue	5.1%	3,346	4.0%	3,529	5.5%	3,624	2.7%	3,695	2.0%	3,811	2.0%	3,936	3.3%	4,089	3.9%	4,108	-0.5%	4,116	0.2%	4,065	-1.2%	(51)
Silver Fork	-41.2%	17	70.0%	17	0.0%	10	-41.2%	17	70.0%	16	70.0%	18	12.5%	19	5.6%	18	-5.3%	16	-11.1%	12	-25.0%	(4)
EDCOE	-5.4%	773	7.8%	754	-2.5%	708	-6.1%	899	27.0%	927	27.0%	1,047	12.9%	1,078	3.0%	1,041	-3.4%	1,077	3.5%	1,122	4.2%	45
TOTAL	0.7%	29,104	1.1%	29,148	0.2%	29,083	-0.2%	29,368	1.0%	29,336	-0.1%	29,425	0.3%	29,320	-0.4%	28,904	-1.4%	28,408	-1.2%	28,060	-1.7%	(348)

Note: NEXUS failures