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Analysis of 24-Hour versus 48-Hour Traffic Counts for HPMS Sampling

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Illinois Center for Transportation

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16. Abstract

The Illinois Department of Transportation (IDOT) has requested a waiver from the Federal Highway Administration (FHWA) to allow IDOT to implement a 24-hour traffic-count program on the non-state HPMS routes, as opposed to the current Highway Performance Monitoring System (HPMS) count cycle and duration requirement for a 48-hour minimum counting cycle. IDOT proposes to count these routes twice in a 5-year cycle. IDOT's concern is that the collection of 24-hour counts, as opposed to 48-hour counts, would enable more efficient use of agency resources, yet still maintain the statistical integrity of the annual average daily traffic (AADT) estimation process for HPMS reporting. IDOT had conducted research in the 1980s comparing the two count durations and has been following the conclusions from that study in conducting 24-hour counts. IDOT had been granted an FHWA waiver for the 24-hour counts on state routes since 1992. Because traffic patterns have changed over the years, IDOT wanted to review the relative differences between the two count durations.

The objective of this study was to perform a statistical analysis on IDOT's automated traffic recorder (ATR) continuous-count traffic data, collected from 103 statewide ATR locations, to compare the relative differences between 24-hour count periods and 48-hour count periods that are factored to compute AADT. Statistical analyses were performed for statewide ATR data across various roadway functional classification categories and also split by District 1 and downstate (Districts 2–9). In general, the analyses found that, with the application of appropriate daily traffic-count adjustment factors, the 24-hour counts were statistically comparable to 48-hour traffic counts.

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The contents of this report reflect the view of the authors, who are responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the University of Illinois Springfield, the Illinois Center for Transportation, the Illinois Department of Transportation, or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

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EXECUTIVE SUMMARY

The Illinois Department of Transportation (IDOT) has requested a waiver from the Federal Highway Administration (FHWA) to allow IDOT to implement a 24-hour traffic-count program on the HPMS non-state routes, as opposed to the current Highway Performance Monitoring System (HPMS) count cycle and duration requirement for a 48-hour minimum counting cycle. IDOT proposes to count these routes twice in a 5-year cycle. IDOT's concern is that the collection of 24-hour counts, as opposed to 48-hour counts, would enable more efficient use of agency resources, yet still maintain the statistical integrity of the annual average daily traffic (AADT) estimation process for HPMS reporting. IDOT had conducted research in the 1980s comparing the two count durations and has been following the conclusions from that study in conducting 24-hour counts on state routes with an approved FHWA waiver in 1992. Because traffic patterns have changed over the years, IDOT wanted to review the relative differences between the two count durations.

The objective of this study was to perform a statistical analysis on IDOT's automated traffic recorder (ATR) continuous-count traffic data, collected from 103 statewide ATR locations, to compare the relative differences between 24-hour count periods and 48-hour count periods that are factored to compute the AADT. Statistical analyses were performed for statewide ATR data across various roadway functional classification categories and also split by District 1 and downstate (Districts 2–9). In general, the analyses found that, with the application of appropriate daily traffic-count adjustment factors, the 24-hour counts were statistically comparable to 48-hour traffic counts.

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LIST OF ACRONYMS

AADT	Annual average daily traffic
AASHTO	American Association of State Highway and Transportation Officials
ATR	Automated traffic recorder
FHWA	Federal Highway Administration
HPMS	Highway Performance Monitoring System
IDOT	Illinois Department of Transportation
OPP	IDOT Office of Planning and Programming
TDV	Total daily volume
TMG	Traffic Monitoring Guide
TRP	Technical Review Panel
UIS	University of Illinois Springfield
VMT	Vehicle miles of travel

CHAPTER 1 RESEARCH PLAN

1.1 BACKGROUND

Chapter 3 of the 2013 Federal Highway Administration (FHWA) *Traffic Monitoring Guide* (TMG) recommends 48-hour, short-duration counts for estimating traffic volume for Highway Performance Monitoring System (HPMS) reporting. In May 2012, the Illinois Department of Transportation (IDOT) submitted a proposal to the Federal Highway Administration (FHWA) for a waiver in the HPMS count cycle and duration requirements from the 48-hour minimum counting cycle to allow IDOT to implement a 24-hour traffic-count program on the non-state HPMS routes. IDOT proposes to count these routes twice in a 5-year cycle. This waiver was requested to improve the overall quality and timeliness of the HPMS counts, to comply with the TMG's recommendation to integrate HPMS counts into the agency's count program, and to allow IDOT to use available traffic resources more efficiently. In November 2012, FHWA provided conditional approval to continue the 24-hour count waiver and asked for additional data and statistical documentation to support IDOT's proposal by November 30, 2014.

Over the years, there have been ongoing questions about the costs, benefits, and data quality in using a 24-hour versus a 48-hour traffic count to develop the annual average daily traffic (AADT). IDOT conducted research in the 1980s comparing the two durations and has been following the conclusions from that study. Because traffic patterns have changed over the years, IDOT wanted to take a fresh look at the relative statistical differences or advantages in using a longer count.

IDOT has historically performed 24-hour, short-duration counts on the state roadway network. IDOT has maintained the use of 4-year rolling ATR data to maintain the daily factors used in AADT processing for daily factors for the four factor groups. Focusing on a 24-hour count program rather than a 48-hour program has enabled IDOT to perform manual counts every 2 years on the entire marked state roadway network and every 5 years (every 4 years for District 1) on the unmarked state roadway network. This pattern is more often than the FHWA TMG 6-year cycle requirement. IDOT has determined that the change to a 24-hour count instead of 48-hour count on the non-state route HPMS sections would generate the following benefits:

- Cost savings on the traffic-counting consultant contract and more efficient travel and scheduling of the counts by IDOT traffic-counting staff. These savings would allow more counts to be conducted with the available resources.
- Due to a greater number of counts, a better temporal distribution of the counting on non-state route HPMS samples would be provided for Illinois traffic data.
- The same equipment, staff, and procedures would be used for all HPMS samples, as well as the other 15,000 counts taken throughout the year, which is another recommendation of the FHWA TMG.
- The HPMS samples on state routes continue to be counted more frequently than the TMG recommends, and the non-state HPMS samples would also be counted more frequently than recommended.

1.2 RESEARCH OBJECTIVE

The objective of this study is to perform a statistical analysis on IDOT's automated traffic recorder (ATR) continuous-count traffic data to compare the relative differences between 24-hour count periods and 48-hour count periods that are factored to compute the AADT. Statistical analyses will be performed for statewide ATR data across various roadway functional classification categories and will also include a separate analysis for District 1 and downstate (Districts 2–9). In addition, this research will produce a summary of conclusions with recommendations for IDOT's HPMS traffic-counting program.

1.3 RESEARCH APPROACH

IDOT operates 107 ATR sites across multiple geographic and functional classification categories, which are representative of statewide traffic patterns. Data from 103 ATR sites with sufficient historical data were used in this study. Table 1 is a breakdown of these 103 ATR sites across functional classification and geographic categories. The ATR sites continuously collect traffic-count data throughout the year. For the purposes of this study, the ATR data was aggregated into total daily volumes (TDV) for each day.

The Technical Review Panel (TRP) decided to analyze the ATR data over the typical IDOT traffic-counting season. As a result, ATR data from the months April through October and the days Monday through Thursday were selected for the analysis, representing typical count days. Weeks with abnormal traffic patterns, because of such events as major holidays, were to be eliminated from the sample. Statistical analyses were performed for this subset of the statewide ATR data across various roadway functional classification categories and also split by District 1 and downstate (Districts 2–9).

The research team employed a paired t-test statistical approach to compare the predicted 48-hour count, based on the 24-hour count for the first day, with the actual 48-hour count. The following presents the results of this investigation.

Functional Classification	District 1 (NE)	Downstate (DS)	Totals
Rural Interstate	2	20	22
Rural Other	2	9	11
Urban Interstate	5	9	14
Urban Other	36	20	56
Totals	45	58	103

Table 1. Automated Traffic Recorder Location Breakdown

CHAPTER 2 INVESTIGATION OF ATR DATA

2.1 INITIAL INVESTIGATION

To begin the investigation, the University of Illinois Springfield (UIS) research team explored with the TRP a variety of analyses of 2012 ATR data across four subsets: Rural Interstate, Rural Other, Urban Interstate, and Urban Other. IDOT's day-of-week traffic-count adjustment factors were applied to the daily ATR data to conduct the 24-hour and 48-hour count comparison. The initial analyses compared the actual 48-hour count with the predicted 48-hour count based on the 24-hour count for the first day. For example, the Monday count was used to predict the Monday–Tuesday total count and then compared to the actual 48-hour total daily volume (TDV) count for the 2 days.

The results of the initial analyses were statistically inconsistent in predicting the 48hour count based on the first day's 24-hour count for the adjusted TDVs. To further cleanse the data to eliminate outliers, the TRP decided to eliminate the entire week of TDV data for weeks in which the difference of the TDV between any two adjoining days exceeded 50%. This eliminated weeks in which an abnormal event, such as a holiday, resulted in nonroutine travel patterns. In cleansing the data using this criterion, the weeks of Memorial Day, Fourth of July, and Labor Day holidays were among those eliminated.

2.1.1 Day-of-Week Traffic-Count Adjustment Factors

Historical IDOT data had shown that there are differences between each day of the week across urban/rural and functional classification categories. In accordance with the *Traffic Monitoring Guide* (TMG), IDOT has used the traffic-count adjustment factors displayed in Table 2 over the last several years. These adjustment multiplication factors are applied to the manual counts to help estimate the AADT. IDOT uses a 4-year average of ATR data to adjust the daily factors annually.

2.1.2 Base File for ATR Data Analysis

The Technical Review Panel (TRP) then decided to expand the analysis file to include the 2008 through 2012 ATR data. After data cleansing was applied, as previously described, the base file contained 8,783 weekly ATR traffic counts across the 103 ATR sites.

Factor			_
Group	Description	Day of Week	Factor
1	Interstate Rural	Monday	1.042
1	Interstate Rural	Tuesday	1.037
1	Interstate Rural	Wednesday	1.000
1	Interstate Rural	Thursday	0.929
2	Other Rural	Monday	1.029
2	Other Rural	Tuesday	1.002
2	Other Rural	Wednesday	0.992
2	Other Rural	Thursday	0.979
3	Interstate Urban	Monday	1.105
3	Interstate Urban	Tuesday	1.006
3	Interstate Urban	Wednesday	0.995
3	Interstate Urban	Thursday	0.983
4	Other Urban	Monday	1.028
4	Other Urban	Tuesday	0.999
4	Other Urban	Wednesday	0.996
4	Other Urban	Thursday	0.978

Table 2. Day-of-Week Traffic-Count AdjustmentFactors by Functional Classification Group

2.2 STATISTICAL ANALYSIS

2.2.1 Statistical Analysis Approach

The purpose of the analysis was to compare the predicted 48-hour count based on the first day's 24-hour count with the actual 48-hour count. For example, the Monday count was used to predict the Monday–Tuesday total count and then compared to the actual 48-hour TDV count for the 2 days. The actual TDV value for each day was adjusted, using the daily adjustment factor.

As outlined in the appendix, this analysis employs a paired t-test statistical approach. The hypothesis is that there is no significant difference between the average of the adjusted 48-hour counts and twice the average of the adjusted 24-hour counts for the initial day. The 0.05 level of significance is used for these paired t-test analyses.

2.2.2 Review of Daily Traffic-Count Adjustment Factors

The analysis using the original IDOT daily adjustment factors did not quite reach the paired t-test 0.05 level of significance in most categories, as indicated by the category P-values less than 0.05 in Table A-1 in the appendix. However, the error rate for each category was generally within 0.5%, which appears reasonably low in the context of estimating AADT. The TRP decided to further review the daily traffic-count adjustment factors to determine if any adjustments were necessary because of changes in current traffic patterns.

Subsequently, the research team reviewed 2008–2012 ATR base file data across four different models, as shown in Table 3. The review included the development of modelderived daily traffic-count adjustment factors and the 24-hour to 48-hour count analysis after applying the new adjustment factors. All four of the models analyzed the four functional classification categories of Rural Interstate, Rural Other, Urban Interstate, and Urban Other.

For Models A and B, the District 1 and downstate data were analyzed separately, while the data analysis for Models C and D was stratified by District 1 and downstate for the urban categories and statewide for the rural categories because there were limited rural ATR sites in District 1. Models A and C analyses further stratified the data by each month for the period April through October.

	Functional Classification		
Model	Categories	Geography	Months
А	Rural Interstate (1), Rural Other (2), Urban Interstate (3), Urban Other (4)	District 1 (NE) and downstate (DS)	Split by Month: April, May, June, July, August, September, October
В	Rural Interstate (1), Rural Other (2), Urban Interstate (3), Urban Other (4)	District 1 (NE) and downstate (DS)	April through October combined
с	Rural Interstate (1), Rural Other (2), Urban Interstate (3), Urban Other (4)	Urban: District 1 (NE) and downstate (DS) Rural: Statewide (RI and RO)	Split by Month: April, May, June, July, August, September, October
D	Rural Interstate (1), Rural Other (2), Urban Interstate (3), Urban Other (4)	Urban: District 1 (NE) and downstate (DS) Rural: Statewide (RI and RO)	April through October combined

Table 3. Day-of-Week Traffic-Count Adjustment Factors by Functional Classification Group

Tables A-2 through A-5 in the appendix present the revised daily TDV traffic-count adjustment factors for each of the four models. These revised daily adjustment factors were applied to the base file for each model, and the statistical analyses compared the actual 48-hour count with the predicted 48-hour count based on the 24-hour count for the first day, as previously described.

As indicated in Tables A-6 through A-9 in the appendix, for all four models, all of the P-values, except one category in Model A, are greater than 0.05. Therefore, the research team concludes that the average of adjusted 48-hour counts is **not** significantly different from the average of the twice of the adjusted 24-hour counts. Thus, the research team further concludes that, with these revised daily adjustment factors, the 24-hour counts are statistically similar to 48-hour counts within a 0.05 significance level for the paired t-test.

CHAPTER 3 CONCLUSIONS AND RECOMMENDATIONS

In summary, to assess the relative difference between a 24-hour count program and a 48-hour count program, this investigation statistically analyzed Monday through Thursday ATR TDV data over the months of April through October for the years 2008 through 2012. To cleanse outlier data, the Monday through Thursday TDV data were eliminated for any week in which the difference of the TDV between any two adjoining days exceeded 50%. A paired t-test statistical analysis was then applied to the base file to determine the adequacy of estimating the actual 48-hour count based on the first day's 24-hour count.

3.1 CONCLUSIONS

3.1.1. Data Analysis

Based on this investigation, and with the application of appropriate daily traffic-count adjustment factors, the research team believes that the ATR data statistically supports IDOT's application of agency resources toward a 24-hour count program instead of a 48-hour count program on their roadway network.

The paired t-test statistical analysis of the current factor groups and factors did not meet the 0.05 level of significance in most of the categories. However, the overall error rate between the 24-hour count and the 48-hour counts was generally within 0.5%. The research team believes this is reasonably low in the context of estimating AADT. The application of updated daily adjustment factors and the modification of the factor groups would bring the 24-hour counts to the 0.05 level of significance. These changes would also reduce the error rate of the 24-hour count to the 48-hour count comparison, from approximately 0.50% to approximately less than 0.12% overall.

3.1.2. Traffic Adjustment Factors

Based on the 2008–2012 ATR data, the UIS research team developed statistically derived daily traffic-count adjustment factors for the variety of models, as detailed in Chapter 2. The analysis found that, when the model-developed, day-of-week adjustment factors are applied, there is no statistically significant difference between the actual 48-hour count, adjusted for each day of week, and twice the adjusted 24-hour count of the first day. The models provide a range of options for IDOT to apply revised daily adjustment factors based on the efficient use of resources.

3.2 RECOMMENDATIONS

As a result of this study, the TRP recommends that IDOT continue the 24-hour count program, as opposed to the 48-hour, for the short-duration traffic counts. IDOT's current program is accurate to within 0.5% for AADT estimation and HPMS reporting purposes. The TRP believes that the benefits of conducting 24-hour, short-duration counts at a greater number of sites and at a greater frequency than FHWA TMG requirements justifies the adequacy of the current program.

To improve the relative accuracy of the 24-hour count program, the research team suggests that IDOT assess the application of the daily traffic-count adjustment factors. This study reviewed four models, all of which met the paired t-test 0.05 level of significance. The research team believes Model D, which further stratifies daily adjustment factors for the urban functional classifications by District 1 and downstate is a reasonable choice. Model D

contains six adjustment groupings: Rural Interstate, Rural Other, District 1 Urban Interstate, Downstate Urban Interstate, Downstate Urban Interstate and Downstate Other as opposed to the current four groupings which do not separate district one and downstate.

However, since this Illinois Center for Transportation study was initiated, state DOTs and AASHTO have initiated a FHWA Pooled Fund Study to research traffic-counting issues, including an analysis of the relative accuracy of 24-hour versus 48-hour counts. Because the FHWA Pooled Fund Study may result in other findings, and given the significant effort involved in modifying existing information processing programs and traffic-counting contracts, the TRP recommends that IDOT not make any changes to their short-duration count program until after the FHWA Pooled Fund Study completion.

Finally, the TRP recommends that IDOT continue to collect and review ATR data on an annual basis to analyze changes in travel patterns and to continue to update their current daily traffic-count adjustment factors based on their current 4-year average.

APPENDIX AUTOMATED TRAFFIC RECORDER STATISTICAL ANALYSIS

SECTION A-1 ATR STATISTICAL ANALYSIS: ORIGINAL DAILY TRAFFIC-COUNT ADJUSTMENT FACTORS

Hypothesis: There is no significance difference between the average of the adjusted 48-hour counts and twice of the average of the adjusted 24-hour counts.

Test: Paired-t test

 $H_0: \mu = 0 \text{ vs } H_a: \mu \neq 0$

Where μ is the average of (Adjusted 48-Hour Count $-2 \times$ Adjusted 24-Hour Count of the starting day)

Adjusted 48-Hour Count = Adjusted 24-Hour Count of the Starting Day +

Adjusted 24-Hour Count of the Consecutive Day

	Starting	Sample		Standard			
Group	Day	Size	Average	Error	t Statistic	P-value	Error Rate
1	Monday	1295	-188.01	45.16	-4.16	<.01	-0.3704%
	Tuesday	1295	86.60	44.81	1.93	0.05	0.1703%
	Wednesday	1295	234.91	41.38	5.68	<.01	0.4648%
	Overall	3885	44.50	25.45	1.75	0.08	0.0877%
2	Monday	994	21.86	7.92	2.76	<.01	0.2880%
	Tuesday	994	-34.32	8.45	-4.06	<.01	-0.4513%
	Wednesday	994	-36.87	9.47	-–3.89	<.01	-0.4804%
	Overall	2982	-16.44	5.01	-3.28	<.01	-0.2157%
3	Monday	967	-546.38	84.17	-6.49	<.01	-0.4548%
	Tuesday	967	-297.66	112.62	-2.64	<.01	-0.2460%
	Wednesday	967	-962.34	108.91	-8.84	<.01	-0.7873%
	Overall	2901	-602.13	59.48	-10.12	<.01	-0.4971%
4	Monday	5527	-25.91	14.26	-1.82	0.07	-0.0645%
	Tuesday	5527	-178.90	12.77	-14.01	<.01	-0.4431%
	Wednesday	5527	74.56	17.70	4.21	<.01	0.1842%
	Overall	16581	-43.42	8.73	-4.98	<.01	-0.1076%

Table A-1. Statistical Analys	s Based on the Original	Traffic-Count Adjustment Factors
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Note:

 $\mathsf{Error} \; \mathsf{Rate} = \frac{\mathsf{Total} \; of \; \{ \mathsf{Adjusted} \; 48 \cdot \mathsf{Hour} \; \mathsf{Count} \; - \; 2 \; \times (\; \mathsf{Adjusted} \; 24 \cdot \mathsf{Hour} \; \mathsf{Count} \; of \; \mathsf{the} \; \mathsf{starting} \; \mathsf{day}) \}}{\mathsf{Total} \; \mathsf{of} \; \mathsf{Adjusted} \; 48 \cdot \mathsf{Hour} \; \mathsf{Count}}$

From the P-values shown in Table A-1, we should reject almost all of the hypotheses at a 0.05 level of significance (P-value < 0.05). Thus, based on the use of the original traffic-count adjustment factors, the study team concludes that the adjusted 24-hour counts are unable to make statistically significant predictions for the adjusted 48-hour counts at the 0.05 confidence level. However, the error rate for the projected data is generally within 0.5%, which still appears relatively low in the context of estimating AADT data.

SECTION A-2 ATR ANALYSIS: REVISED DAILY TRAFFIC-COUNT ADJUSTMENT FACTORS FOR VARIOUS MODELS

A-2.1 ANALYSIS MODELS

Co-variable:

Model A

Dependent Variable: Average of the weekdays' counts

Independent Variables:

Group (DS1, DS2, DS3, DS4, NE1, NE2, NE3, NE4)Month (April, May, June, July, August, September, October)Daily counts

Model B

Dependent Variable:	Average of the weekdays' counts
Independent Variables:	Group (DS1, DS2, DS3, DS4, NE1, NE2, NE3, NE4)
Co-variable:	Daily counts

Model C

Dependent Variable: Average of the weekdays' counts

Independent Variables:

Group (DS3, DS4, NE3, NE4, RI, RO)

Month (April, May, June, July, August, September, October)

Co-variable: Daily counts

Model D

Dependent Variable:	Average of the weekdays' counts
Independent Variables:	Group (DS3, DS4, NE3, NE4, RI, RO)
Co-variable:	Daily counts

NOTE 1: DS = Downstate, NE = District One, RI = Rural Interstate, RO = Rural Other

NOTE 2: 1 = Rural Interstate, 2 = Rural Other, 3 = Urban Interstate, 4 = Urban Other

A-2.2 ANALYSIS RESULTS: R² AND ERROR RATE*

Model A

Day	R ²
Monday	0.998057
Tuesday	0.998314
Wednesday	0.998773
Thursday	0.997086

Error Rate: 0.11085189%Note: Error Rate = $\frac{Total of Actual Counts - Total of Adjusted Counts}{Total of Actual Counts}$

Model B

Day	R ²			
Monday	0.997956			
Tuesday	0.998242			
Wednesday	0.998741			
Thursday	0.996949			
Error Rate: 0.11449299%				

Model C

Day	R²			
Monday	0.997940			
Tuesday	0.998232			
Wednesday	0.998735			
Thursday	0.996947			
Error Rate: 0.11492321%				

Model D

Day	R ²			
Monday	0.998040			
Tuesday	0.998303			
Wednesday	0.998766			
Thursday	0.997082			
Error Rate: 0.11139653%				

A-2.2 REVISED TRAFFIC-COUNT ADJUSTMENT FACTORS FOR VARIOUS MODELS

Group	Month	Monday	Tuesday	Wednesday	Thursday
DS1	April	1.041800436	1.022460596	0.993390182	0.937697287
	Мау	1.061847163	1.016113224	0.994495985	0.925314966
	June	1.058021846	1.030361802	0.993374489	0.921737906
	July	1.032332852	1.031331724	1.000677288	0.937132865
	August	1.047686179	1.026548215	0.988180711	0.940947355
	September	1.057109228	1.020108778	0.988326812	0.939269047
	October	1.021536171	1.024622766	1.001321878	0.948016569
	April	1.036180233	1.018110933	0.983654039	0.954197196
	Мау	1.045621908	0.992673414	0.989419935	0.963888895
	June	1.048913962	1.009182921	0.982255935	0.956903000
DS2	July	1.035532941	1.007452743	0.986061434	0.966586415
	August	1.034959086	1.007639756	0.985188603	0.967923639
	September	1.036757503	1.011683421	0.984645457	0.963400187
	October	1.008487232	1.008814985	0.998826363	0.973100912
	April	1.039339665	1.021257740	0.989958300	0.949539491
	Мау	1.042069972	1.013244775	1.003486401	0.941971769
	June	1.037356675	1.030592720	0.993494359	0.941775691
DS3	July	1.026268205	1.030574849	0.995503161	0.949408437
	August	1.032048800	1.019560011	0.991574879	0.957503362
	September	1.039974972	1.010167604	0.993695107	0.956559956
	October	1.022936091	1.019468045	0.987586128	0.963564187
	April	1.032454409	1.005492740	0.987506608	0.973024948
	Мау	1.022049624	0.995770666	1.000216389	0.974735772
	June	1.025920891	1.009989311	0.992129099	0.968262032
DS4	July	1.028076116	1.012415711	0.986744004	0.969778011
	August	1.018278108	1.004141707	0.990378729	0.983071019
	September	1.027091351	0.999599271	0.995253993	0.974918832
	October	1.027256414	1.004632035	0.983027994	0.978199342

Table A-2. Revised Traffic-Count Adjustment Factors for Model A

Group	Month	Monday	Tuesday	Wednesday	Thursday
	April	1.000966214	1.045237335	1.010466046	0.943780875
NE1	Мау	1.037444801	1.053128052	1.006783927	0.911964767
	June	1.034209520	1.046085827	1.006394533	0.911905375
	July	1.005705803	1.043576240	1.019368460	0.933803644
	August	1.021901923	1.049280896	1.007828570	0.924363549
	September	1.024904240	1.029657781	1.011658079	0.936483979
	October	0.994000290	1.056237700	1.023998322	0.929932414
	April	1.032594893	1.004464817	0.987294571	0.975962228
	Мау	1.020931929	1.004712303	0.993321796	0.980986657
	June	1.035893148	1.005857754	0.991532485	0.966658884
NE2	July	1.013298211	1.006402779	0.987250835	0.987870566
	August	1.012465827	1.012236796	0.994490919	0.980391813
	September	1.023585993	1.013852157	0.987746456	0.975432702
	October	1.014335799	1.013241807	0.985971075	0.985729978
	April	1.031400416	1.009620933	0.995429856	0.965003471
	Мау	1.031987756	1.003256014	0.994669795	0.970786883
	June	1.014144668	1.013618865	0.998792946	0.971289395
NE3	July	1.014052241	0.998583068	0.997553045	0.985742723
	August	1.014917985	0.991490720	0.996319920	0.992297150
	September	1.024233777	0.996607128	0.992393865	0.983577365
	October	1.015382356	0.992781762	0.999028744	0.988468126
	April	1.040296803	1.002854221	0.984162961	0.973350835
	Мау	1.031608515	0.998948672	0.998363567	0.971607085
	June	1.028412632	1.000244177	0.993830193	0.975821471
NE4	July	1.031634586	0.998232737	0.984806522	0.981566298
	August	1.030586466	1.000957157	0.991342412	0.976905416
	September	1.041196181	0.999740521	0.986375674	0.973856914
	October	1.028433587	0.995498972	0.984932357	0.984823497

Group	Monday	Tuesday	Wednesday	Thursday
DS1	1.045765095	1.024997540	0.994166330	0.934820225
DS2	1.034079494	1.008174329	0.987238325	0.963987357
DS3	1.033672722	1.021623112	0.993305670	0.951135257
DS4	1.025614961	1.004831781	0.990475612	0.974671570
NE1	1.017814280	1.046575347	1.011448606	0.926147499
NE2	1.022533151	1.008099750	0.989942633	0.978272739
NE3	1.020740676	0.999544521	0.996268566	0.980466887
NE4	1.032887299	0.999594689	0.989227306	0.976770291

Table A-3. Revised Traffic-Count Adjustment Factors for Model B

Group	Month	Monday	Tuesday	Wednesday	Thursday
	April	1.0393396650	1.0212577400	0.9899583000	0.9495394906
	Мау	1.0420699720	1.0132447750	1.0034864010	0.9419717685
DS3	June	1.0373566750	1.0305927200	0.9934943590	0.9417756910
	July	1.0262682050	1.0305748490	0.9955031610	0.9494084374
	August	1.0320488000	1.0195600110	0.9915748790	0.9575033622
	September	1.0399749720	1.0101676040	0.9936951070	0.9565599561
	October	1.0229360910	1.0194680450	0.9875861280	0.9635641866
	April	1.0324544090	1.0054927400	0.9875066080	0.9730249481
	Мау	1.0220496240	0.9957706660	1.0002163890	0.9747357724
	June	1.0259208910	1.0099893110	0.9921290990	0.9682620317
DS4	July	1.0280761160	1.0124157110	0.9867440040	0.9697780114
	August	1.0182781080	1.0041417070	0.9903787290	0.9830710191
	September	1.0270913510	0.9995992710	0.9952539930	0.9749188324
	October	1.0272564140	1.0046320350	0.9830279940	0.9781993419
	April	1.0314004160	1.0096209330	0.9954298560	0.9650034708
	Мау	1.0319877560	1.0032560140	0.9946697950	0.9707868833
	June	1.0141446680	1.0136188650	0.9987929460	0.9712893953
NE3	July	1.0140522410	0.9985830680	0.9975530450	0.9857427233
	August	1.0149179850	0.9914907200	0.9963199200	0.9922971499
	September	1.0242337770	0.9966071280	0.9923938650	0.9835773647
	October	1.0153823560	0.9927817620	0.9990287440	0.9884681255
	April	1.0402968030	1.0028542210	0.9841629610	0.9733508352
	Мау	1.0316085150	0.9989486720	0.9983635670	0.9716070845
	June	1.0284126320	1.0002441770	0.9938301930	0.9758214713
NE4	July	1.0316345860	0.9982327370	0.9848065220	0.9815662976
	August	1.0305864660	1.0009571570	0.9913424120	0.9769054164
	September	1.0411961810	0.9997405210	0.9863756740	0.9738569140
	October	1.0284335870	0.9954989720	0.9849323570	0.9848234966

Table A-4. Revised Traffic-Count Adjustment Factors for Model C

Group	Month	Monday	Tuesday	Wednesday	Thursday
	April	1.0360383500	1.0253463930	0.9955739650	0.9384893902
	Мау	1.0581859110	1.0211307990	0.9962305530	0.9233418504
	June	1.0547607070	1.0323856560	0.9950576580	0.9204187460
RI	July	1.0293824230	1.0326000980	1.0025916000	0.9367783732
	August	1.0431352270	1.0302598520	0.9914017100	0.9380575864
	September	1.0518074120	1.0215767470	0.9918305440	0.9388322336
	October	1.0173497180	1.0289806250	1.0044927860	0.9453016094
	April	1.0349614790	1.0134155690	0.9848785680	0.9613501393
	Мау	1.0360408820	0.9971414650	0.9908830830	0.9701924140
	June	1.0440114610	1.0079455600	0.9856520830	0.9604719770
RO	July	1.0277860160	1.0070967650	0.9864634940	0.9735762713
	August	1.0286147640	1.0088867140	0.9876942410	0.9712666997
	September	1.0329234150	1.0123013450	0.9855277930	0.9667793813
	October	1.0098899020	1.0098790060	0.9956536660	0.9760991722

Group	Monday	Tuesday	Wednesday	Thursday
DS3	1.0336727220	1.0216231120	0.9933056699	0.9511352570
DS4	1.0256149610	1.0048317810	0.9904756120	0.9746715700
NE3	1.0207406760	0.9995445210	0.9962685665	0.9804668872
NE4	1.0328872990	0.9995946890	0.9892273057	0.9767702911
RI	1.0416625410	1.0279160000	0.9965195601	0.9335856968
RO	1.0303598060	1.0081506740	0.9880928221	0.9684285153

Table A-5. Revised Traffic-Count Factors for Model D

SECTION A-3 ATR STATISTICAL ANALYSIS: REVISED DAILY TRAFFIC-COUNT ADJUSTMENT FACTORS FOR VARIOUS MODELS

A-3.1 STATISTICAL ANALYSIS CRITERIA

Hypothesis: There is no significance difference between the average of the adjusted 48-hour counts and twice of the average of the adjusted 24-hour counts.

Test: Paired-t test

 $H_0: \mu = 0$ vs $H_a: \mu \neq 0$

Where μ is the average of [Adjusted 48-Hour Count – (2 × Adjusted 24-Hour Count of the starting day)]

Adjusted 48-Hour Count = Adjusted 24-Hour Count of the Starting Day +

Adjusted 24-Hour Count of the Consecutive Day

A-3.2 STATISTICAL ANALYSIS APPLYING REVISED TRAFFIC-COUNT ADJUSTMENT FACTORS FOR VARIOUS MODELS

							P-	
Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
DS1	April	Monday	185	15.13	141.43	0.11	0.91	0.0313%
		Tuesday	185	-113.18	138.62	-0.82	0.42	-0.2335%
		Wednesday	185	5.10	121.84	0.04	0.97	0.0105%
		Overall	555	-30.98	77.40	-0.40	0.69	-0.0639%
	May	Monday	139	139.16	122.76	1.13	0.26	0.2660%
		Tuesday	139	-135.81	212.72	-0.64	0.52	-0.2597%
		Wednesday	139	-16.14	145.50	-0.11	0.91	-0.0308%
		Overall	417	-4.26	95.09	-0.04	0.96	-0.0081%
	June	Monday	181	144.74	101.19	1.43	0.15	0.2732%
		Tuesday	181	-114.06	152.11	-0.75	0.45	-0.2154%
		Wednesday	181	13.68	110.51	0.12	0.90	0.0258%
		Overall	543	14.79	71.19	0.21	0.84	0.0279%
	July	Monday	155	50.31	110.09	0.46	0.65	0.0958%
		Tuesday	155	-85.70	125.15	-0.68	0.49	-0.1630%
		Wednesday	155	19.64	93.63	0.21	0.83	0.0373%
		Overall	465	-5.25	63.65	-0.08	0.93	-0.0100%
	August	Monday	197	91.39	86.53	1.06	0.29	0.1888%
		Tuesday	197	19.16	57.14	0.34	0.74	0.0397%
		Wednesday	197	-31.27	63.50	-0.49	0.62	-0.0647%
		Overall	591	26.43	40.52	0.65	0.51	0.0547%
	September	Monday	145	48.64	92.59	0.53	0.60	0.1078%
		Tuesday	145	5.60	40.84	0.14	0.89	0.0124%
		Wednesday	145	24.24	70.54	0.34	0.73	0.0539%
		Overall	435	26.16	41.03	0.64	0.52	0.0581%
	October	Monday	175	29.97	111.86	0.27	0.79	0.0674%
		Tuesday	175	-30.52	101.43	-0.30	0.76	-0.0687%
		Wednesday	175	-10.53	142.62	-0.07	0.94	-0.0237%
		Overall	525	-3.69	69.11	-0.05	0.96	-0.0083%

Table A-6. Statistical Analysis for Model A Traffic-Count Adjustment Factors

Note:

 $\mathsf{Error Rate} = \frac{\mathsf{Total of } \{ \mathsf{Adjusted 48} \mathsf{-Hour Count} - 2 \times (\mathsf{Adjusted 24} \mathsf{-Hour Count of the starting day}) \}}{\mathsf{Total of Adjusted 48} \mathsf{-Hour Count}}$

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
DS2	April	Monday	117	2.34	24.17	0.10	0.92	0.0331%
		Tuesday	117	18.26	21.59	0.85	0.40	0.2583%
		Wednesday	117	11.03	32.98	0.33	0.74	0.1567%
		Overall	351	10.54	15.37	0.69	0.49	0.1493%
	Мау	Monday	102	10.77	24.64	0.44	0.66	0.1559%
		Tuesday	102	-1.18	35.25	-0.03	0.97	-0.0171%
		Wednesday	102	-16.92	29.64	-0.57	0.57	-0.2447%
		Overall	306	-2.44	17.37	-0.14	0.89	-0.0354%
	June	Monday	103	27.39	28.28	0.97	0.33	0.3368%
		Tuesday	103	-17.70	27.29	-0.65	0.52	-0.2180%
		Wednesday	103	-5.31	26.70	-0.20	0.84	-0.0652%
		Overall	309	1.46	15.82	0.09	0.93	0.0179%
	July	Monday	98	30.63	21.39	1.43	0.16	0.3910%
		Tuesday	98	7.95	28.88	0.28	0.78	0.1020%
		Wednesday	98	-31.77	30.47	-1.04	0.30	-0.4063%
		Overall	294	2.27	15.72	0.14	0.89	0.0291%
	August	Monday	134	11.06	24.49	0.45	0.65	0.1411%
		Tuesday	134	7.67	20.47	0.37	0.71	0.0981%
		Wednesday	134	-7.56	23.58	-0.32	0.75	-0.0966%
		Overall	402	3.73	13.20	0.28	0.78	0.0476%
	September	Monday	99	0.95	24.68	0.04	0.97	0.0135%
		Tuesday	99	7.47	21.05	0.35	0.72	0.1061%
		Wednesday	99	1.33	28.32	0.05	0.96	0.0189%
		Overall	297	3.25	14.31	0.23	0.82	0.0461%
	October	Monday	139	23.03	23.42	0.98	0.33	0.3183%
		Tuesday	139	17.38	29.11	0.60	0.55	0.2415%
		Wednesday	139	-8.10	29.05	-0.28	0.78	-0.1127%
		Overall	417	10.77	15.75	0.68	0.49	0.1495%

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
DS3	April	Monday	118	-100.28	211.61	-0.47	0.64	-0.1333%
	Tuesday	118	-11.39	130.31	-0.09	0.93	-0.0151%	
		Wednesday	118	119.07	181.44	0.66	0.51	0.1582%
		Overall	354	2.46	102.39	0.02	0.98	0.0033%
	May	Monday	94	-111.22	141.02	-0.79	0.43	-0.1408%
		Tuesday	94	124.87	231.32	0.54	0.59	0.1582%
		Wednesday	94	143.35	277.04	0.52	0.61	0.1822%
		Overall	282	52.34	128.89	0.41	0.69	0.0664%
	June	Monday	107	-103.21	173.77	-0.59	0.55	-0.1191%
		Tuesday	107	48.99	160.98	0.30	0.76	0.0565%
		Wednesday	107	126.68	178.77	0.71	0.48	0.1464%
		Overall	321	24.15	98.75	0.24	0.81	0.0279%
	July	Monday	93	-56.55	245.09	-0.23	0.82	-0.0646%
		Tuesday	93	-1.02	213.99	0.00	1.00	-0.0012%
		Wednesday	93	114.66	175.01	0.66	0.51	0.1311%
		Overall	279	19.03	122.78	0.16	0.88	0.0217%
	August	Monday	113	-136.44	158.14	-0.86	0.39	-0.1731%
		Tuesday	113	78.51	105.18	0.75	0.46	0.0995%
		Wednesday	113	10.98	198.87	0.06	0.96	0.0139%
		Overall	339	-15.65	91.52	-0.17	0.86	-0.0199%
	September	Monday	79	-23.91	161.94	-0.15	0.88	-0.0347%
		Tuesday	79	62.78	198.11	0.32	0.75	0.0913%
		Wednesday	79	14.43	236.02	0.06	0.95	0.0210%
		Overall	237	17.77	115.56	0.15	0.88	0.0258%
	October	Monday	120	-146.25	162.69	-0.90	0.37	-0.1932%
		Tuesday	120	13.09	158.78	0.08	0.93	0.0173%
		Wednesday	120	221.86	374.38	0.59	0.55	0.2935%
		Overall	360	29.57	145.81	0.20	0.84	0.0391%

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
DS4	April	Monday	315	-8.54	40.27	-0.21	0.83	-0.0306%
		Tuesday	315	-10.38	42.76	-0.24	0.81	-0.0371%
		Wednesday	315	0.34	41.62	0.01	0.99	0.0012%
		Overall	945	-6.19	23.97	-0.26	0.80	-0.0222%
	May	Monday	268	16.74	46.37	0.36	0.72	0.0595%
		Tuesday	268	-36.21	66.40	-0.55	0.59	-0.1287%
		Wednesday	268	32.12	84.70	0.38	0.70	0.1141%
		Overall	804	4.21	39.03	0.11	0.91	0.0150%
	June	Monday	342	-4.84	60.42	-0.08	0.94	-0.0169%
		Tuesday	342	-20.62	55.78	-0.37	0.71	-0.0719%
		Wednesday	342	24.60	45.92	0.54	0.59	0.0857%
		Overall	1026	-0.29	31.37	-0.01	0.99	-0.0010%
	July	Monday	282	-27.28	60.95	-0.45	0.65	-0.0983%
		Tuesday	282	39.83	52.38	0.76	0.45	0.1436%
		Wednesday	282	14.46	46.63	0.31	0.76	0.0522%
		Overall	846	9.00	30.95	0.29	0.77	0.0325%
	August	Monday	372	-24.64	39.33	-0.63	0.53	-0.0884%
		Tuesday	372	-27.12	42.41	-0.64	0.52	-0.0971%
		Wednesday	372	-17.68	48.34	-0.37	0.71	-0.0632%
		Overall	1116	-23.15	25.10	-0.92	0.36	-0.0828%
	September	Monday	258	16.85	46.71	0.36	0.72	0.0609%
		Tuesday	258	-64.57	53.61	-1.20	0.23	-0.2329%
		Wednesday	258	27.29	60.61	0.45	0.65	0.0983%
		Overall	774	-6.81	31.14	-0.22	0.83	-0.0246%
	October	Monday	317	-59.68	56.24	-1.06	0.29	-0.2133%
		Tuesday	317	46.39	45.46	1.02	0.31	0.1657%
		Wednesday	317	-30.77	80.32	-0.38	0.70	-0.1100%
		Overall	951	-14.69	36.02	-0.41	0.68	-0.0525%

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
NE1	April	Monday	14	77.36	662.51	0.12	0.91	0.1091%
		Tuesday	14	-18.46	206.72	-0.09	0.93	-0.0261%
		Wednesday	14	-112.45	321.86	-0.35	0.73	-0.1585%
		Overall	42	-17.85	249.00	-0.07	0.94	-0.0252%
	May	Monday	16	-35.53	265.48	-0.13	0.90	-0.0542%
		Tuesday	16	-43.58	281.69	-0.15	0.88	-0.0665%
		Wednesday	16	32.95	320.39	0.10	0.92	0.0502%
		Overall	48	-15.39	163.96	-0.09	0.93	-0.0235%
	June	Monday	21	-137.70	583.36	-0.24	0.82	-0.2177%
		Tuesday	21	-9.84	236.20	-0.04	0.97	-0.0155%
		Wednesday	21	161.09	540.65	0.30	0.77	0.2547%
		Overall	63	4.52	272.51	0.02	0.99	0.0071%
	July	Monday	14	120.06	582.66	0.21	0.84	0.1954%
		Tuesday	14	1.12	256.70	0.00	1.00	0.0018%
		Wednesday	14	-148.43	297.54	-0.50	0.63	-0.2414%
		Overall	42	-9.08	229.12	-0.04	0.97	-0.0148%
	August	Monday	24	131.22	317.35	0.41	0.68	0.2049%
		Tuesday	24	-104.07	267.86	-0.39	0.70	-0.1626%
		Wednesday	24	153.37	381.64	0.40	0.69	0.2398%
		Overall	72	60.17	185.85	0.32	0.75	0.0940%
	September	Monday	13	86.79	264.02	0.33	0.75	0.1307%
		Tuesday	13	-28.61	202.65	-0.14	0.89	-0.0431%
		Wednesday	13	115.93	498.63	0.23	0.82	0.1749%
		Overall	39	58.04	194.77	0.30	0.77	0.0875%
	October	Monday	16	27.72	429.94	0.06	0.95	0.0446%
		Tuesday	16	19.03	200.99	0.09	0.93	0.0306%
		Wednesday	16	-60.13	300.44	-0.20	0.84	-0.0968%
		Overall	48	-4.46	183.30	-0.02	0.98	-0.0072%

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
NE2	April	Monday	35	-24.06	21.49	-1.12	0.27	-0.3255%
		Tuesday	35	-19.40	21.42	-0.91	0.37	-0.2608%
		Wednesday	35	13.57	27.28	0.50	0.62	0.1823%
		Overall	105	-9.96	13.57	-0.73	0.46	-0.1342%
	May	Monday	30	-23.22	26.64	-0.87	0.39	-0.2854%
		Tuesday	30	18.03	22.90	0.79	0.44	0.2215%
		Wednesday	30	-1.37	20.81	-0.07	0.95	-0.0169%
		Overall	90	-2.19	13.57	-0.16	0.87	-0.0269%
	June	Monday	28	-2.91	36.62	-0.08	0.94	-0.0267%
		Tuesday	28	-11.89	43.39	-0.27	0.79	-0.1091%
		Wednesday	28	10.62	55.97	0.19	0.85	0.0974%
		Overall	84	-1.40	26.27	-0.05	0.96	-0.0128%
	July	Monday	23	-5.49	30.00	-0.18	0.86	-0.0524%
		Tuesday	23	7.57	37.15	0.20	0.84	0.0723%
		Wednesday	23	13.38	117.99	0.11	0.91	0.1279%
		Overall	69	5.15	41.81	0.12	0.90	0.0492%
	August	Monday	30	-16.63	23.86	-0.70	0.49	-0.1979%
		Tuesday	30	-6.83	33.27	-0.21	0.84	-0.0811%
		Wednesday	30	2.90	21.47	0.13	0.89	0.0344%
		Overall	90	-6.86	15.26	-0.45	0.65	-0.0814%
	September	Monday	26	-29.67	14.00	-2.12	<mark>0.04</mark>	-0.4318%
		Tuesday	26	-0.82	25.15	-0.03	0.97	-0.0119%
		Wednesday	26	6.78	26.09	0.26	0.80	0.0983%
		Overall	78	-7.90	12.91	-0.61	0.54	-0.1147%
	October	Monday	30	-26.67	24.69	-1.08	0.29	-0.3874%
		Tuesday	30	5.79	27.49	0.21	0.83	0.0839%
		Wednesday	30	3.44	23.23	0.15	0.88	0.0499%
		Overall	90	-5.81	14.47	-0.40	0.69	-0.0843%

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
NE3	April	Monday	35	-116.91	501.24	-0.23	0.82	-0.0450%
		Tuesday	35	-205.56	584.86	-0.35	0.73	-0.0790%
		Wednesday	35	116.59	407.32	0.29	0.78	0.0448%
		Overall	105	-68.63	287.94	-0.24	0.81	-0.0264%
	May	Monday	28	-175.78	859.51	-0.20	0.84	-0.0677%
		Tuesday	28	-118.32	553.47	-0.21	0.83	-0.0455%
		Wednesday	28	47.80	389.19	0.12	0.90	0.0184%
		Overall	84	-82.10	360.35	-0.23	0.82	-0.0316%
	June	Monday	23	-666.18	1145.55	-0.58	0.57	-0.2557%
		Tuesday	23	-87.47	1461.16	-0.06	0.95	-0.0335%
		Wednesday	23	-16.51	973.58	-0.02	0.99	-0.0063%
		Overall	69	-256.72	689.37	-0.37	0.71	-0.0983%
	July	Monday	25	184.82	622.94	0.30	0.77	0.0821%
		Tuesday	25	-549.26	1311.13	-0.42	0.68	-0.2435%
		Wednesday	25	-53.84	858.02	-0.06	0.95	-0.0238%
		Overall	75	-139.43	555.56	-0.25	0.80	-0.0618%
	August	Monday	49	85.70	498.00	0.17	0.86	0.0344%
		Tuesday	49	-460.56	1053.78	-0.44	0.66	-0.1844%
		Wednesday	49	123.20	794.24	0.16	0.88	0.0493%
		Overall	147	-83.89	467.43	-0.18	0.86	-0.0336%
	September	Monday	38	-134.59	402.23	-0.33	0.74	-0.0584%
		Tuesday	38	-294.59	920.21	-0.32	0.75	-0.1276%
		Wednesday	38	13.12	804.60	0.02	0.99	0.0057%
		Overall	114	-138.69	425.30	-0.33	0.74	-0.0601%
	October	Monday	45	116.81	675.44	0.17	0.86	0.0479%
		Tuesday	45	-272.95	1052.77	-0.26	0.80	-0.1118%
		Wednesday	45	-13.36	869.51	-0.02	0.99	-0.0055%
		Overall	135	-56.50	504.17	-0.11	0.91	-0.0231%

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
NE4	April	Monday	515	-4.29	44.51	-0.10	0.92	-0.0090%
		Tuesday	515	-3.27	35.09	-0.09	0.93	-0.0068%
		Wednesday	515	-8.99	35.12	-0.26	0.80	-0.0188%
		Overall	1545	-5.52	22.21	-0.25	0.80	-0.0115%
	May	Monday	432	0.04	38.30	0.00	1.00	0.0001%
		Tuesday	432	-1.35	42.28	-0.03	0.97	-0.0027%
		Wednesday	432	5.83	43.99	0.13	0.89	0.0119%
		Overall	1296	1.51	23.99	0.06	0.95	0.0031%
	June	Monday	521	0.89	44.53	0.02	0.98	0.0018%
		Tuesday	521	-28.30	58.98	-0.48	0.63	-0.0560%
		Wednesday	521	17.12	54.33	0.32	0.75	0.0339%
		Overall	1563	-3.43	30.56	-0.11	0.91	-0.0068%
	July	Monday	455	65.69	93.03	0.71	0.48	0.1359%
		Tuesday	455	15.13	57.69	0.26	0.79	0.0314%
		Wednesday	455	-87.55	83.08	-1.05	0.29	-0.1812%
		Overall	1365	-2.25	45.81	-0.05	0.96	-0.0047%
	August	Monday	567	1.98	35.44	0.06	0.96	0.0043%
		Tuesday	567	-16.63	28.73	-0.58	0.56	-0.0357%
		Wednesday	567	15.87	39.38	0.40	0.69	0.0341%
		Overall	1701	0.41	20.08	0.02	0.98	0.0009%
	September	Monday	407	30.45	37.22	0.82	0.41	0.0645%
		Tuesday	407	8.40	34.44	0.24	0.81	0.0178%
		Wednesday	407	1.74	36.38	0.05	0.96	0.0037%
		Overall	1221	13.53	20.79	0.65	0.52	0.0287%
	October	Monday	476	-66.54	52.05	-1.28	0.20	-0.1412%
		Tuesday	476	-0.13	36.23	0.00	1.00	-0.0003%
		Wednesday	476	-114.33	119.75	-0.95	0.34	-0.2416%
		Overall	1428	-60.33	45.15	-1.34	0.18	-0.1278%

From Table A-6, we can see that all the p-values, except one, are greater than 0.05. Therefore, we can conclude that the average of adjusted 48-hour counts is not significantly different from the average of twice of the initial day adjusted 24-hour counts.

Group	Starting Day	n	Mean	Std. Err	t	P-Value	Error Rate
	Monday	1177	77.50	43.59	1.78	0.08	0.1578%
	Tuesday	1177	-60.80	47.75	-1.27	0.20	-0.1238%
031	Wednesday	1177	15.75	42.22	0.37	0.71	0.0320%
Group DS1 DS2 DS3 DS4 NE1 NE2 NE3	Overall	3531	10.82	25.75	0.42	0.67	0.0220%
	Monday	792	15.35	9.56	1.61	0.11	0.2062%
060	Tuesday	792	7.17	10.13	0.71	0.48	0.0967%
032	Wednesday	792	-7.95	10.89	-0.73	0.47	-0.1072%
	Overall	2376	4.85	5.89	0.82	0.41	0.0654%
	Monday	724	-113.94	71.43	-1.60	0.11	-0.1444%
520	Tuesday	724	50.19	65.44	0.77	0.44	0.0635%
033	Wednesday	724	121.57	95.62	1.27	0.20	0.1542%
	Overall	2172	19.27	45.40	0.42	0.67	0.0244%
	Monday	2154	-15.36	19.29	-0.80	0.43	-0.0548%
	Tuesday	2154	-9.58	19.57	-0.49	0.62	-0.0342%
034	Wednesday	2154	6.46	22.50	0.29	0.77	0.0230%
	Overall	6462	-6.16	11.84	t $P-value$ 9 1.78 0.08 5 -1.27 0.20 2 0.37 0.71 5 0.42 0.67 6 1.61 0.11 3 0.71 0.48 9 -0.73 0.47 9 0.82 0.41 3 -1.60 0.11 4 0.77 0.44 2 1.27 0.20 0 0.42 0.67 9 -0.80 0.43 7 -0.49 0.62 0 0.29 0.77 4 -0.52 0.60 6 0.16 0.87 0 -0.20 0.85 0 0.20 0.85 0 0.20 0.85 0 0.11 0.91 0 -1.68 0.09 7 -0.23 0.82 3 0.46 0.65	-0.0220%	
	Monday	118	29.85	181.26	0.16	0.87	0.0462%
	Tuesday	118	-31.73	96.10	-0.33	0.74	-0.0491%
	Wednesday	118	30.67	157.10	0.20	0.85	0.0475%
	Overall	354	9.60	85.90	0.11	0.91	0.0149%
	Monday	202	-17.99	10.70	-1.68	0.09	-0.2155%
	Tuesday	202	-2.63	11.47	-0.23	0.82	-0.0315%
INCZ	Wednesday	202	8.02	17.53	0.46	0.65	0.0959%
	Overall	606	-4.20	7.84	-0.54	0.59	-0.0503%
	Monday	243	-69.23	251.75	-0.27	0.78	-0.0281%
	Tuesday	243	-289.44	391.82	-0.74	0.46	-0.1172%
NLS	Wednesday	243	76.85	307.55	0.25	0.80	0.0311%
NE3	Overall	729	-93.94	185.86	-0.51	0.61	-0.0380%
	Monday	3373	2.15	19.7 <mark>2</mark>	0.11	0.91	0.0045%
	Tuesday	3373	-5.63	16.59	-0.34	0.73	-0.0117%
	Wednesday	3373	-20.20	24.95	-0.81	0.42	-0.0420%
DS2 DS3 DS4 NE1 NE2 NE3 NE4	Overall	10119	-7.89	11.95	-0.66	0.51	-0.0164%

 Table A-7. Statistical Analysis for Model B Traffic-Count Adjustment Factors

From Table A-7, we can see that all of the p-values are greater than 0.05. **Therefore, we can** conclude that the average of the adjusted 48-hour counts is not significantly different from the average of twice of the initial day adjusted 24-hour counts.

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
DS3	April	Monday	118	-100.28	211.61	-0.47	0.64	-0.1333%
		Tuesday	118	-11.39	130.31	-0.09	0.93	-0.0151%
		Wednesday	118	119.07	181.44	0.66	0.51	0.1582%
		Overall	354	2.46	102.39	0.02	0.98	0.0033%
	May	Monday	94	-111.22	141.02	-0.79	0.43	-0.1408%
		Tuesday	94	124.87	231.32	0.54	0.59	0.1582%
		Wednesday	94	143.35	277.04	0.52	0.61	0.1822%
		Overall	282	52.34	128.89	0.41	0.69	0.0664%
	June	Monday	107	-103.21	173.77	-0.59	0.55	-0.1191%
		Tuesday	107	48.99	160.98	0.30	0.76	0.0565%
		Wednesday	107	126.68	178.77	0.71	0.48	0.1464%
		Overall	321	24.15	98.75	0.24	0.81	0.0279%
	July	Monday	93	-56.55	245.09	-0.23	0.82	-0.0646%
		Tuesday	93	-1.02	213.99	0.00	1.00	-0.0012%
		Wednesday	93	114.66	175.01	0.66	0.51	0.1311%
		Overall	279	19.03	122.78	0.16	0.88	0.0217%
	August	Monday	113	-136.44	158.14	-0.86	0.39	-0.1731%
		Tuesday	113	78.51	105.18	0.75	0.46	0.0995%
		Wednesday	113	10.98	198.87	0.06	0.96	0.0139%
		Overall	339	-15.65	91.52	-0.17	0.86	-0.0199%
	September	Monday	79	-23.91	161.94	-0.15	0.88	-0.0347%
		Tuesday	79	62.78	198.11	0.32	0.75	0.0913%
		Wednesday	79	14.43	236.02	0.06	0.95	0.0210%
		Overall	237	17.77	115.56	0.15	0.88	0.0258%
	October	Monday	120	-146.25	162.69	-0.90	0.37	-0.1932%
		Tuesday	120	13.09	158.78	0.08	0.93	0.0173%
		Wednesday	120	221.86	374.38	0.59	0.55	0.2935%
		Overall	360	29.57	145.81	0.20	0.84	0.0391%

Table A-8. Statistical Analysis for Model C Traffic-Count Adjustment Factors

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
DS4	April	Monday	315	-8.54	40.27	-0.21	0.83	-0.0306%
		Tuesday	315	-10.38	42.76	-0.24	0.81	-0.0371%
		Wednesday	315	0.34	41.62	0.01	0.99	0.0012%
		Overall	945	-6.19	23.97	-0.26	0.80	-0.0222%
	May	Monday	268	16.74	46.37	0.36	0.72	0.0595%
		Tuesday	268	-36.21	66.40	-0.55	0.59	-0.1287%
		Wednesday	268	32.12	84.70	0.38	0.70	0.1141%
		Overall	804	4.21	39.03	0.11	0.91	0.0150%
	June	Monday	342	-4.84	60.42	-0.08	0.94	-0.0169%
		Tuesday	342	-20.62	55.78	-0.37	0.71	-0.0719%
		Wednesday	342	24.60	45.92	0.54	0.59	0.0857%
		Overall	1026	-0.29	31.37	-0.01	0.99	-0.0010%
	July	Monday	282	-27.28	60.95	-0.45	0.65	-0.0983%
		Tuesday	282	39.83	52.38	0.76	0.45	0.1436%
		Wednesday	282	14.46	46.63	0.31	0.76	0.0522%
		Overall	846	9.00	30.95	0.29	0.77	0.0325%
	August	Monday	372	-24.64	39.33	-0.63	0.53	-0.0884%
		Tuesday	372	-27.12	42.41	-0.64	0.52	-0.0971%
		Wednesday	372	-17.68	48.34	-0.37	0.71	-0.0632%
		Overall	1116	-23.15	25.10	-0.92	0.36	-0.0828%
	September	Monday	258	16.85	46.71	0.36	0.72	0.0609%
		Tuesday	258	-64.57	53.61	-1.20	0.23	-0.2329%
		Wednesday	258	27.29	60.61	0.45	0.65	0.0983%
		Overall	774	-6.81	31.14	-0.22	0.83	-0.0246%
	October	Monday	317	-59.68	56.24	-1.06	0.29	-0.2133%
		Tuesday	317	46.39	45.46	1.02	0.31	0.1657%
		Wednesday	317	-30.77	80.32	-0.38	0.70	-0.1100%
		Overall	951	-14.69	36.02	-0.41	0.68	-0.0525%

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
NE3	April	Monday	35	-116.91	501.24	-0.23	0.82	-0.0450%
		Tuesday	35	-205.56	584.86	-0.35	0.73	-0.0790%
		Wednesday	35	116.59	407.32	0.29	0.78	0.0448%
		Overall	105	-68.63	287.94	-0.24	0.81	-0.0264%
	May	Monday	28	-175.78	859.51	-0.20	0.84	-0.0677%
		Tuesday	28	-118.32	553.47	-0.21	0.83	-0.0455%
		Wednesday	28	47.80	389.19	0.12	0.90	0.0184%
		Overall	84	-82.10	360.35	-0.23	0.82	-0.0316%
	June	Monday	23	-666.18	1145.55	-0.58	0.57	-0.2557%
		Tuesday	23	-87.47	1461.16	-0.06	0.95	-0.0335%
		Wednesday	23	-16.51	973.58	-0.02	0.99	-0.0063%
		Overall	69	-256.72	689.37	-0.37	0.71	-0.0983%
	July	Monday	25	184.82	622.94	0.30	0.77	0.0821%
		Tuesday	25	-549.26	1311.13	-0.42	0.68	-0.2435%
		Wednesday	25	-53.84	858.02	-0.06	0.95	-0.0238%
		Overall	75	-139.43	555.56	-0.25	0.80	-0.0618%
	August	Monday	49	85.70	498.00	0.17	0.86	0.0344%
		Tuesday	49	-460.56	1053.78	-0.44	0.66	-0.1844%
		Wednesday	49	123.20	794.24	0.16	0.88	0.0493%
		Overall	147	-83.89	467.43	-0.18	0.86	-0.0336%
	September	Monday	38	-134.59	402.23	-0.33	0.74	-0.0584%
		Tuesday	38	-294.59	920.21	-0.32	0.75	-0.1276%
		Wednesday	38	13.12	804.60	0.02	0.99	0.0057%
		Overall	114	-138.69	425.30	-0.33	0.74	-0.0601%
	October	Monday	45	116.81	675.44	0.17	0.86	0.0479%
		Tuesday	45	-272.95	1052.77	-0.26	0.80	-0.1118%
		Wednesday	45	-13.36	869.51	-0.02	0.99	-0.0055%
		Overall	135	-56.50	504.17	-0.11	0.91	-0.0231%

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
NE4	April	Monday	515	-4.29	44.51	-0.10	0.92	-0.0090%
		Tuesday	515	-3.27	35.09	-0.09	0.93	-0.0068%
		Wednesday	515	-8.99	35.12	-0.26	0.80	-0.0188%
		Overall	1545	-5.52	22.21	-0.25	0.80	-0.0115%
	May	Monday	432	0.04	38.30	0.00	1.00	0.0001%
		Tuesday	432	-1.35	42.28	-0.03	0.97	-0.0027%
		Wednesday	432	5.83	43.99	0.13	0.89	0.0119%
		Overall	1296	1.51	23.99	0.06	0.95	0.0031%
	June	Monday	521	0.89	44.53	0.02	0.98	0.0018%
		Tuesday	521	-28.30	58.98	-0.48	0.63	-0.0560%
		Wednesday	521	17.12	54.33	0.32	0.75	0.0339%
		Overall	1563	-3.43	30.56	-0.11	0.91	-0.0068%
	July	Monday	455	65.69	93.03	0.71	0.48	0.1359%
		Tuesday	455	15.13	57.69	0.26	0.79	0.0314%
		Wednesday	455	-87.55	83.08	-1.05	0.29	-0.1812%
		Overall	1365	-2.25	45.81	-0.05	0.96	-0.0047%
	August	Monday	567	1.98	35.44	0.06	0.96	0.0043%
		Tuesday	567	-16.63	28.73	-0.58	0.56	-0.0357%
		Wednesday	567	15.87	39.38	0.40	0.69	0.0341%
		Overall	1701	0.41	20.08	0.02	0.98	0.0009%
	September	Monday	407	30.45	37.22	0.82	0.41	0.0645%
		Tuesday	407	8.40	34.44	0.24	0.81	0.0178%
		Wednesday	407	1.74	36.38	0.05	0.96	0.0037%
		Overall	1221	13.53	20.79	0.65	0.52	0.0287%
	October	Monday	476	-66.54	52.05	-1.28	0.20	-0.1412%
		Tuesday	476	-0.13	36.23	0.00	1.00	-0.0003%
		Wednesday	476	-114.33	119.75	-0.95	0.34	-0.2416%
		Overall	1428	-60.33	45.15	-1.34	0.18	-0.1278%

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Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
RI	April	Monday	199	-33.49	144.46	-0.23	0.82	-0.0671%
		Tuesday	199	-103.39	129.97	-0.80	0.43	-0.2064%
		Wednesday	199	4.69	115.67	0.04	0.97	0.0093%
		Overall	597	-44.06	75.28	-0.59	0.56	-0.0880%
	May	Monday	155	94.86	122.89	0.77	0.44	0.1767%
		Tuesday	155	-119.06	194.24	-0.61	0.54	-0.2218%
		Wednesday	155	2.40	136.02	0.02	0.99	0.0045%
		Overall	465	-7.27	88.93	-0.08	0.93	-0.0135%
	June	Monday	202	103.87	111.35	0.93	0.35	0.1922%
		Tuesday	202	-103.04	138.59	-0.74	0.46	-0.1907%
		Wednesday	202	35.55	114.18	0.31	0.76	0.0657%
		Overall	606	12.13	70.40	0.17	0.86	0.0224%
	July	Monday	169	44.32	114.10	0.39	0.70	0.0832%
		Tuesday	169	-80.01	116.79	-0.69	0.49	-0.1501%
		Wednesday	169	11.10	90.32	0.12	0.90	0.0208%
		Overall	507	-8.20	62.12	-0.13	0.90	-0.0154%
	August	Monday	221	59.21	89.98	0.66	0.51	0.1182%
		Tuesday	221	7.35	58.37	0.13	0.90	0.0147%
		Wednesday	221	17.06	73.94	0.23	0.82	0.0341%
		Overall	663	27.87	43.37	0.64	0.52	0.0557%
	September	Monday	158	11.35	92.23	0.12	0.90	0.0242%
		Tuesday	158	-8.63	41.92	-0.21	0.84	-0.0184%
		Wednesday	158	54.31	77.84	0.70	0.49	0.1161%
		Overall	474	19.01	42.51	0.45	0.65	0.0406%
	October	Monday	191	-12.01	113.85	-0.11	0.92	-0.0261%
		Tuesday	191	-21.96	94.76	-0.23	0.82	-0.0478%
		Wednesday	191	15.68	135.35	0.12	0.91	0.0341%
		Overall	573	-6.10	66.77	-0.09	0.93	-0.0133%

							P-	
Group	Month	Starting Day	n	Mean	Std. Err	t	Value	Error Rate
RO	April	Monday	152	-0.03	19.26	0.00	1.00	-0.0005%
		Tuesday	152	3.34	17.57	0.19	0.85	0.0468%
		Wednesday	152	5.42	26.37	0.21	0.84	0.0760%
		Overall	456	2.91	12.33	0.24	0.81	0.0407%
	May	Monday	132	-12.82	20.96	-0.61	0.54	-0.1785%
		Tuesday	132	6.52	27.81	0.23	0.82	0.0907%
		Wednesday	132	-19.07	23.54	-0.81	0.42	-0.2649%
		Overall	396	-8.46	13.99	-0.60	0.55	-0.1176%
	June	Monday	131	16.53	23.60	0.70	0.48	0.1897%
		Tuesday	131	-22.10	23.45	-0.94	0.35	-0.2534%
		Wednesday	131	-2.26	24.09	-0.09	0.93	-0.0258%
		Overall	393	-2.61	13.68	-0.19	0.85	-0.0299%
	July	Monday	121	14.60	18.77	0.78	0.44	0.1754%
		Tuesday	121	6.95	24.38	0.29	0.78	0.0837%
		Wednesday	121	-31.32	33.31	-0.94	0.35	-0.3760%
		Overall	363	-3.25	15.11	-0.22	0.83	-0.0391%
	August	Monday	164	-2.84	20.89	-0.14	0.89	-0.0358%
		Tuesday	164	3.58	17.80	0.20	0.84	0.0451%
		Wednesday	164	-6.67	19.69	-0.34	0.74	-0.0840%
		Overall	492	-1.98	11.24	-0.18	0.86	-0.0249%
	September	Monday	125	-9.86	19.89	-0.50	0.62	-0.1407%
		Tuesday	125	5.47	17.45	0.31	0.75	0.0780%
		Wednesday	125	-0.06	23.13	0.00	1.00	-0.0009%
		Overall	375	-1.49	11.69	-0.13	0.90	-0.0212%
	October	Monday	169	14.60	19.80	0.74	0.46	0.2035%
		Tuesday	169	19.78	24.49	0.81	0.42	0.2769%
		Wednesday	169	-12.55	24.47	-0.51	0.61	-0.1760%
		Overall	507	7.27	13.28	0.55	0.58	0.1017%

From Table A-8, we can see that all of the p-values are greater than 0.05. Therefore, we can conclude that the average of the adjusted 48-hour counts is not significantly different from the average of twice of the initial day adjusted 24-hour counts.

Group	Starting Day	n	Mean	Std. Err	t	P–Value	Error Rate
DS3	Monday	724	-113.94	71.43	-1.60	0.11	-0.1444%
	Tuesday	724	50.19	65.44	0.77	0.44	0.0635%
	Wednesday	724	121.57	95.62	1.27	0.20	0.1542%
	Overall	2172	19.27	45.4	0.42	0.67	0.0244%
DS4	Monday	2154	-15.36	19.29	-0.80	0.43	-0.0548%
	Tuesday	2154	-9.58	19.57	-0.49	0.62	-0.0342%
	Wednesday	2154	6.46	22.50	0.29	0.77	0.0230%
	Overall	6462	-6.16	11.84	-0.52	0.60	-0.0220%
NE3	Monday	243	-69.23	251.75	-0.27	0.78	-0.0281%
	Tuesday	243	-289.44	391.82	-0.74	0.46	-0.1172%
	Wednesday	243	76.85	307.55	0.25	0.80	0.0311%
	Overall	729	-93.94	185.86	-0.51	0.61	-0.0380%
NE4	Monday	3373	2.15	19.72	0.11	0.91	0.0045%
	Tuesday	3373	-5.63	16.59	-0.34	0.73	-0.0117%
	Wednesday	3373	-20.20	24.95	-0.81	0.42	-0.0420%
	Overall	10119	-7.89	11.95	-0.66	0.51	-0.0164%
RI	Monday	1295	43.40	44.65	0.97	0.33	0.0859%
	Tuesday	1295	-56.56	44.36	-1.27	0.20	-0.1119%
	Wednesday	1295	32.41	41.46	0.78	0.43	0.0641%
	Overall	3885	6.42	25.13	0.26	0.80	0.0127%
RO	Monday	994	4.39	7.96	0.55	0.58	0.0576%
	Tuesday	994	4.19	8.40	0.50	0.62	0.0550%
	Wednesday	994	-8.83	9.42	-0.94	0.35	-0.1159%
	Overall	2982	-0.09	4.97	-0.02	0.99	-0.0011%

Table A-9. Statistical Analysis for Model D Traffic-Count Adjustment Factors

From Table A-9, we can see that all of the p-values are greater than 0.05. Therefore, we can conclude that the average of the adjusted 48-hour counts is not significantly different from the average of twice of the initial day adjusted 24-hour counts.



