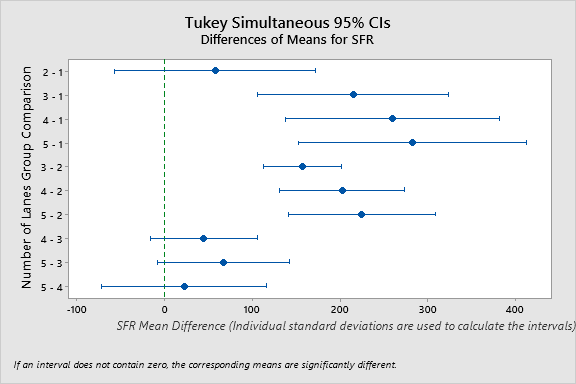


**Figure S1: FHWA Vehicle Classification Categories**



|  |
| --- |
| a) Tukey comparison for SFR |

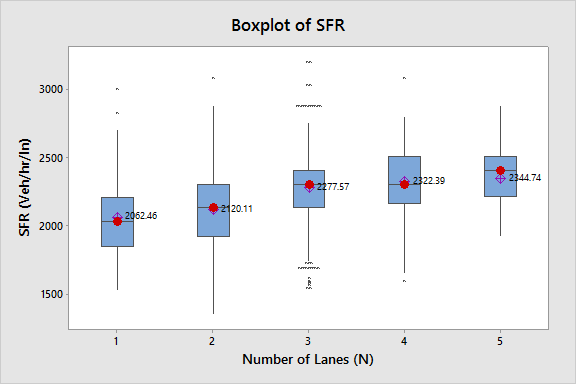


|  |
| --- |
| (b) Interval Plot for SFR Based on Number of Through Lanes |

**Figure S2: Interval Plots and Tukey comparison Outputs at 95% confidence level.**



**Figure S3: Location of Study Intersections Sample**



|  |
| --- |
| a) Box Plot for SFR |



|  |
| --- |
| b) Outliers Test Results |

**Figure S4: Outliers Test Results using Grubbs Method for BSFR Based on Number of Through Lanes**



**Figure S5: Normal plot of standardized effects of the number of lanes and proportion of heavy vehicles on SFR (A: number of lanes, B: percent of heavy vehicles) at 95% confidence level**

**Table S1: Two-Way ANOVA for Analyzing the Effect of number of lanes and the location of the lane at the upstream approach on SFR**

|  |  |  |  |
| --- | --- | --- | --- |
| **Source** | **DF** | **F-Value** | **P-Value** |
| **Number of Through only Lanes (N)** | 4 | 30.75 | 0.001 |
| **Through Lane Location** | 2 | 4.73 | 0.009 |
| **Interaction Effect of Lane Location and N** | No valid interaction | | |