

Appendix G

Air Quality

A. INTRODUCTION

Section 6.4.4, “Air Quality,” of this Draft Environmental Impact Statement (DEIS) summarizes the assessment of potential effects on ambient air quality from the operation of the Project in accordance with the procedures found in the New York State Department of Transportation (NYSDOT) Environmental Manual (TEM). Potential air quality effects associated with the construction phase are also described. This appendix describes the regulatory context, methodology, and results of the air quality assessment.

Mesoscale emissions for carbon monoxide (CO), volatile organic compounds (VOCs), oxides of nitrogen (NO_x), particulate matter (PM) less than or equal to 2.5 micrometers (PM_{2.5}) and PM less than or equal to 10 micrometers (PM₁₀) were assessed over the area studied in the traffic modeling for the Viaduct and Community Grid Alternatives (see **Chapter 5, “Transportation and Engineering Considerations”** for traffic information) for the year 2020 (estimated time of completion, or ETC), year 2030 (ETC+10), and year 2050 (ETC+30).

The Project would not introduce any new, permanent stationary emission sources, such as boilers or generators.

Additionally, **Section 6.4.5, “Climate Change,”** of this DEIS documents an evaluation of the Project’s effects on and resilience to climate change and on energy consumption.

B. REGULATORY CONTEXT

NATIONAL AND STATE AIR QUALITY STANDARDS

As required by the Clean Air Act and its Amendments of 1990 (CAA), primary and secondary National Ambient Air Quality Standards (NAAQS) have been established for six major air pollutants: CO, nitrogen dioxide (NO₂), ozone, PM (PM_{2.5} and PM₁₀), sulfur dioxide (SO₂), and lead. The primary standards represent levels that are requisite to protect the public health, allowing an adequate margin of safety. The secondary standards are intended to protect the nation’s welfare and account for air pollutant effects on soil, water, visibility, materials, vegetation, and other aspects of the environment. The primary standards are generally either the same as the secondary standards or more restrictive. The NAAQS are presented in **Table G-1**. The NAAQS for CO, annual NO₂, and 3-hour SO₂ have also been adopted as the ambient air quality standards for New York State, but are defined on a running 12-month basis rather than for calendar years only. New York State also has standards for total suspended particles, settleable particles, non-methane hydrocarbons, 24-hour and annual SO₂, and ozone that correspond to federal standards that have since been revoked or replaced, and for the noncriteria pollutants beryllium, fluoride, and hydrogen sulfide.

In addition to the criteria pollutants discussed above, toxic air pollutants, or mobile source air toxics (MSATs), are pollutants known to cause or are suspected of causing cancer or other serious health ailments. The CAA Amendments of 1990 listed 188 air toxics and addressed the need to control toxic emissions from transportation. The U.S. Environmental Protection Agency's (USEPA's) 2007 MSAT rule identified a subset of compounds as having substantial contributions from mobile sources: benzene, 1,3-butadiene, formaldehyde, acrolein, naphthalene, polycyclic organic matter, and diesel PM.

NAAQS ATTAINMENT STATUS AND STATE IMPLEMENTATION PLANS

The CAA, as amended in 1990, defines non-attainment areas (NAA) as geographic regions that have been designated as not meeting one or more of the NAAQS. When an area is designated as non-attainment by USEPA, the state is required to develop and implement a State Implementation Plan (SIP), which delineates how a state plans to achieve air quality that meets the NAAQS under the deadlines established by the CAA, followed by a plan for maintaining attainment status once the area is in attainment.

Onondaga County is currently in attainment for all standards of CO, PM₁₀, PM_{2.5}, ozone, lead, and the annual-average NO₂ standard. USEPA has designated the entire state of New York as "unclassifiable/attainment" of the 1-hour NO₂ standard effective February 29, 2012. Since additional monitoring is required for the 1-hour standard, areas will be reclassified once three years of monitoring data are available (likely 2017).

USEPA has established a 1-hour SO₂ standard, replacing the former 24-hour and annual standards, effective August 23, 2010. Based on the available monitoring data, all New York State counties currently meet the 1-hour standard. Additional monitoring will be required. Draft attainment designations were published by USEPA in February 2013, indicating that USEPA is deferring action to designate areas in New York State and expects to proceed with designations once additional data are gathered.

C. METHODOLOGY

Emissions from motor vehicles are referred to as on-road emissions, while emissions from construction equipment are referred to as non-road emissions. In both cases, emissions result from combustion of fuels. On-road emission sources are predominantly gasoline passenger vehicles and diesel trucks.

POLLUTANTS FOR ANALYSIS

Air quality is affected by air pollutants produced by both motor vehicles and stationary sources. Emissions from motor vehicles are referred to as mobile source emissions, while emissions from fixed facilities are referred to as stationary source emissions. Ambient concentrations of CO are predominantly influenced by mobile source emissions. PM, VOCs, and NO_x are emitted from both mobile and stationary sources. Fine PM is also formed when emissions of NO_x, sulfur oxides (SO_x), ammonia, organic compounds, and other gases react or condense in the atmosphere. Emissions of sulfur dioxide (SO₂) are associated mainly with stationary sources, and some sources utilizing non-road diesel such as large international marine engines. On-road diesel vehicles currently contribute very little to SO₂ emissions since the sulfur content of on-road diesel fuel, which is federally regulated, is extremely low. Ozone is formed in the atmosphere by complex photochemical processes that include NO_x and VOCs. Ambient

concentrations of CO, PM, NO₂, SO₂, ozone, and lead are regulated by USEPA under the CAA and are referred to as ‘criteria pollutants’; emissions of VOCs, NO_x, and other precursors to criteria pollutants are also regulated by USEPA.

**Table G-1
National Ambient Air Quality Standards (NAAQS)**

Pollutant	Primary		Secondary	
	ppm	µg/m ³	ppm	µg/m ³
Carbon Monoxide (CO)				
8-Hour Average ⁽¹⁾	9	10,000	NA	
1-Hour Average ⁽¹⁾	35	40,000		
Lead				
Rolling 3-Month Average ⁽²⁾	NA	0.15	NA	0.15
Nitrogen Dioxide (NO ₂)				
1-Hour Average ⁽³⁾	0.100	189	NA	
Annual Average	0.053	100	0.053	100
Ozone (O ₃)				
8-Hour Average ^(4,5)	0.070	150	0.070	150
Respirable Particulate Matter (PM ₁₀)				
24-Hour Average ⁽¹⁾	NA	150	NA	150
Fine Respirable Particulate Matter (PM _{2.5})				
Annual Mean ⁽⁶⁾	NA	12	NA	15
24-Hour Average ⁽⁷⁾	NA	35	NA	35
Sulfur Dioxide (SO ₂) ⁽⁸⁾				
1-Hour Average ⁽⁹⁾	0.075	196	NA	NA
Maximum 3-Hour Average ⁽¹⁾	NA	NA	0.50	1,300
Notes: ppm – parts per million (unit of measure for gases only) µg/m3 – micrograms per cubic meter (unit of measure for gases and particles, including lead) NA – not applicable All annual periods refer to calendar year. Standards are defined in ppm. Approximately equivalent concentrations in µg/m3 are presented. (1) Not to be exceeded more than once a year. (2) USEPA has lowered the NAAQS down from 1.5 µg/m3, effective January 12, 2009. (3) 3-year average of the annual 98th percentile daily maximum 1-hr average concentration. Effective April 12, 2010. (4) 3-year average of the annual fourth highest daily maximum 8-hr average concentration. (5) USEPA has lowered the NAAQS down from 0.075 ppm, effective December 2015. (6) 3-year average of annual mean. USEPA has lowered the primary standard from 15 µg/m3, effective March 2013. (7) Not to be exceeded by the annual 98th percentile when averaged over 3 years. (8) USEPA revoked the 24-hour and annual primary standards, replacing them with a 1-hour average standard. Effective August 23, 2010. (9) 3-year average of the annual 99th percentile daily maximum 1-hr average concentration. Source: 40 CFR Part 50: National Primary and Secondary Ambient Air Quality Standards.				

CARBON MONOXIDE

CO, a colorless and odorless gas, is produced primarily by the incomplete combustion of gasoline and other fossil fuels. In urban areas, approximately 80 to 90 percent of CO emissions are from motor vehicles. CO concentrations can diminish rapidly over relatively short distances; elevated concentrations are usually limited to locations near crowded intersections, heavily traveled and congested roadways, parking lots, and garages. Consequently, CO concentrations must be analyzed on a local (microscale) basis.

NITROGEN OXIDES, VOCs, AND OZONE

NO_x are of principal concern because of their role, together with VOCs, as precursors in the formation of ozone. Ozone is formed through a series of reactions that take place in the atmosphere in the presence of sunlight. The effects of NO_x and VOC emissions from all sources are generally examined on a regional basis. The contribution of an action or project to regional emissions of these pollutants would include any added stationary or mobile source emissions.

The Project would potentially result in changes to the regional vehicular travel patterns in the study areas. Therefore, the change in regional NO_x and VOC emissions was analyzed.

In addition to being a precursor to the formation of ozone, NO₂ (one component of NO_x) is also a regulated pollutant. Since NO₂ is mostly formed from the transformation of NO in the atmosphere, it has mostly been of concern further downwind from large stationary point sources, and not a local concern from mobile sources (NO_x emissions from fuel combustion consist of approximately 90 percent NO and 10 percent NO₂ at the source). However, with the promulgation of the 2010 1-hour average standard for NO₂, local sources such as vehicular emissions may be of greater concern. The changes in NO₂ concentrations associated with this Project have not been analyzed explicitly due to limitations in guidance and modeling tools. However, any changes in NO₂ associated with the Project would be relatively small, as demonstrated below for CO and PM.

The Project would not involve the addition of any new stationary emission sources. Therefore, an analysis of potential local impacts on NO₂ concentrations was not warranted.

LEAD

Airborne lead emissions are currently associated principally with industrial sources. Lead in gasoline has been banned under the CAA and would not be emitted from any other component of the Project. Therefore, an analysis of this pollutant was not warranted.

RESPIRABLE PARTICULATE MATTER—PM₁₀ AND PM_{2.5}

PM is a broad class of air pollutants that includes discrete particles of a wide range of sizes and chemical compositions, as either liquid droplets (aerosols) or solids suspended in the atmosphere. The constituents of PM are both numerous and varied, and they are emitted from a wide variety of sources (both natural and anthropogenic). Natural sources include the condensed and reacted forms of naturally occurring VOC; salt particles resulting from the evaporation of sea spray; wind-borne pollen, fungi, molds, algae, yeasts, rusts, bacteria, and material from live and decaying plant and animal life; particles eroded from beaches, soil, and rock; and particles emitted from volcanic and geothermal eruptions and from forest fires. Naturally occurring PM is generally greater than 2.5 micrometers in diameter. Major anthropogenic sources include the combustion of fossil fuels (e.g., vehicular exhaust, power generation, boilers, engines, and home

heating), chemical and manufacturing processes, all types of construction, agricultural activities, as well as wood-burning stoves and fireplaces. PM also acts as a substrate for the adsorption (accumulation of gases, liquids, or solutes on the surface of a solid or liquid) of other pollutants, often toxic, and some likely carcinogenic compounds.

As described below, PM is regulated in two size categories: particles with an aerodynamic diameter of less than or equal to 2.5 micrometers (PM_{2.5}) and particles with an aerodynamic diameter of less than or equal to 10 micrometers (PM₁₀, which includes PM_{2.5}). PM_{2.5} has the ability to reach the lower regions of the respiratory tract, delivering with it other compounds that adsorb to the surfaces of the particles, and is also extremely persistent in the atmosphere. PM_{2.5} is mainly derived from combustion material that has volatilized and then condensed to form primary PM (often soon after the release from a source) or from precursor gases reacting in the atmosphere to form secondary PM.

All gasoline-powered and diesel-powered vehicles, especially heavy duty trucks and buses operating on diesel fuel, are a substantial source of respirable PM, most of which is PM_{2.5}; PM concentrations may, consequently, be locally elevated near roadways. Therefore, PM was included in the mobile source analysis.

SULFUR DIOXIDE

SO₂ emissions are primarily associated with the combustion of sulfur-containing fuels (oil and coal). SO₂ is also of concern as a precursor to PM_{2.5} and is regulated as a PM_{2.5} precursor under the New Source Review permitting program for large sources. Due to the federal restrictions on the sulfur content in diesel fuel for on-road and non-road vehicles, no substantial quantities are emitted from vehicular sources. Vehicular sources of SO₂ are not substantial and therefore, analysis of SO₂ from mobile and/or non-road sources was not warranted.

Additionally, during construction, all on-site nonroad engines would use ultra-low sulfur diesel (ULSD) fuel and emit insignificant amounts of SO₂. Therefore, analysis of SO₂ was not warranted.

NON-CRITERIA POLLUTANTS

As described above, the CAA Amendments of 1990 listed 188 MSATs and addressed the need to control toxic emissions from transportation. USEPA identified a subset of seven HAPs as having substantial contributions from mobile sources: benzene, 1,3-butadiene, formaldehyde, acrolein, naphthalene, polycyclic organic matter, and diesel particulate matter (DPM). These were analyzed on a mesoscale level.

LOCAL (MICROSCALE) ASSESSMENT

CO MICROSCALE SCREENING ANALYSIS

An assessment of the potential air quality effects of CO concentrations that would result from the Project was performed following the procedures outlined in the NYSDOT TEM. The assessment included a mobile source screening analysis to determine whether the Project would result in increased traffic volumes or implement any other changes (e.g., changes in speed, roadway width, sidewalk locations, or traffic signals) that may result in substantial increases in CO concentrations, thereby requiring further detailed analysis.

According to the screening procedures, if the Level of Service (LOS) in the two Build Alternatives is A, B, or C, no air quality analysis is required. For each intersection or corridor operating at LOS D or worse, the following “Capture Criteria” are applied to determine if an air quality analysis may be warranted:

- A 10 percent or more reduction in the distance between source and receptor; or
- A 10 percent or more increase in traffic volume on affected roadways for the Build Year; or
- A 10 percent or more increase in vehicle emissions for the Build Year; or
- Any increase in the number of queued lanes for the Build Year (this applies to intersections); or
- A 20 percent reduction in speed when average speeds are below 30 miles per hour (mph).

If a project does not meet any of the above criteria, a microscale analysis is not required. Should any one of the above Capture Criteria be met, a Volume Threshold Screening is performed, using traffic volume and emission factor data to compare with specific volume thresholds established in the TEM. The Volume Thresholds (provided in the TEM) establish traffic volumes under which a violation of the NAAQS for CO is extremely unlikely. This approach uses region-specific emissions data to determine corresponding vehicle thresholds.

Both the Capture Criteria and Volume Threshold Screening were developed by NYSDOT to be conservative air quality estimates based on worst-case assumptions. The TEM states that if the project-related traffic volumes are below the Volume Threshold criteria, then a microscale air quality analysis is unnecessary even if the other Capture Criteria are met for a location with LOS D or worse, since a violation of the NAAQS would be extremely unlikely.

VEHICLE EMISSIONS

Engine Emissions

Vehicular CO and PM (including brake wear and tire wear) emission factors were computed using the USEPA mobile source emissions model, MOVES2014a.¹ This emissions model is capable of calculating emission factors for various vehicle types, based on the fuel type (gasoline, diesel, or natural gas), meteorological conditions, vehicle speeds, vehicle age, roadway types, number of starts per day, engine soak time, and various other factors that influence emissions, such as inspection and maintenance programs. The inputs and use of MOVES incorporate the most current guidance available from NYSDEC.

Vehicle classification data were based on data obtained from the results described in the traffic study (see **Chapter 5, “Transportation and Engineering Considerations”**). Appropriate credits were used to accurately reflect the inspection and maintenance programs.² County-specific hourly temperature and relative humidity data obtained from NYSDEC were used.

¹ USEPA. *Motor Vehicle Emission Simulator (MOVES): User Guide for MOVES2014a*. EPA420B15095. November 2015.

² The inspection and maintenance programs require inspections of automobiles and light trucks to determine if pollutant emissions from each vehicle exhaust system are lower than emission standards.

Road Dust

The contribution of re-entrained road dust to PM₁₀ concentrations, as presented in the PM₁₀ SIP, is considered to be substantial; therefore, the PM₁₀ estimates include exhaust, brake wear, tire wear, and road dust. Road dust emission factors were calculated according to the latest procedure delineated by USEPA³.

TRAFFIC DATA

Vehicle classification data were based on field studies. Traffic data for the air quality analysis were derived from existing traffic counts, projected future growth in traffic, and other information developed as part of the traffic analysis for the proposed project (see **Chapter 5, “Transportation and Engineering Considerations”**). Traffic data for the future No Build and Build alternatives were used for the respective air quality modeling scenarios.

For the PM_{2.5} and PM₁₀ analyses, 24-hour data is required. The traffic volumes from the morning and evening peak periods were used as a baseline for determining volumes throughout the day. Off-peak traffic volumes were determined by adjusting the peak period volumes by the 24-hour distributions of actual vehicle counts collected at appropriate locations. Emissions modeling using MOVES2014a were conducted for four representative time periods (morning, midday, evening, and overnight) to cover a 24-hour period. Winter meteorological conditions were conservatively assumed for the entire year.

DISPERSION MODEL FOR PM MICROSCALE ANALYSIS

Maximum contributions from vehicular emissions to PM concentrations adjacent to each analysis site were calculated using CAL3QHCR, a refined version of the CAL3QHC model Version 2.0.⁴ This refined version of the model can utilize hourly traffic and meteorology data, and is therefore more appropriate for calculating the 24-hour and annual average concentrations required to address the timescales of the PM NAAQS.

METEOROLOGY

In general, the transport and concentration of pollutants from vehicular sources are influenced by three principal meteorological factors: wind direction, wind speed, and atmospheric stability. Wind direction influences the direction in which pollutants are dispersed, and atmospheric stability accounts for the effects of vertical mixing in the atmosphere. These factors, therefore, influence the concentration at a particular receptor location. The meteorological data set consisted of five consecutive years of latest available meteorological data: surface data collected at the nearest representative National Weather Service Station (Syracuse Hancock International Airport) from 2011 to 2015 and concurrent upper air data collected at the nearest station in Albany, NY.

Vehicles failing the emissions test must undergo maintenance and pass a repeat test to be registered in New York State.

³ EPA. *Compilations of Air Pollutant Emission Factors AP-42*. Fifth Edition, Volume I: Stationary Point and Area Sources, Ch. 13.2.1. NC. <http://www.epa.gov/ttn/chief/ap42>. January 2011.

⁴ EPA. *User's Guide to CAL3QHC, A Modeling Methodology for Predicted Pollutant Concentrations Near Roadway Intersections*. EPA454R92006.

ANALYSIS YEAR

The PM microscale analysis for operational effects was performed for the critical analysis year, 2020. Year 2020 is the year by which the Project is likely to be completed, and therefore would be the earliest year that operational traffic volumes would be expected to occur. Vehicular emission rates projected by the MOVES model would be greatest in earlier years, and outweigh the projected growth in traffic volumes for later years (2030 [ETC+10] and 2050 [ETC + 30]) . The analysis was performed both without the Project (the No Build Alternative) and with the Project (either of the Build Alternatives).

ANALYSIS SITES

Intersections in the project area where traffic data were developed, as described in **Chapter 5, “Transportation and Engineering Considerations,”** were reviewed for the PM microscale analysis for operational effects based on locations of high volumes, high traffic increments between No Build and each alternative, the greatest decrease in average travel speeds, and proximity to sensitive receptors. The traffic volumes for the AM and PM periods were reviewed and intersections with high volumes were identified. Of those intersections, four were selected for the microscale analysis (see **Table G-2**): The potential effects from vehicle emissions of PM₁₀ and PM_{2.5} were analyzed at each site.

Table G-2
PM Microscale Analysis Sites (Operational Effects)

Analysis Site	Location	Alternatives Analyzed
1	Crouse Avenue and Erie Boulevard	No Build, Viaduct, and Community Grid
2	West Street and Erie Boulevard	No Build, Viaduct, and Community Grid
3	Almond Street and Harrison Street	No Build, Viaduct, and Community Grid
4	State Street and Erie Boulevard	No Build and Community Grid

RECEPTOR PLACEMENT

Multiple receptors were modeled at each of the selected sites. Receptors were placed along the approach and departure links and roadway segments at regularly spaced intervals. Due to the presence of elevated roadways, receptors were also placed at elevated residential locations.

REGIONAL (MESOSCALE) ASSESSMENT

Mesoscale emissions were evaluated for the No Build, Viaduct, and Community Grid Alternatives.

The emissions were estimated using the projected vehicle miles traveled (VMT) reported in **Chapter 5, “Transportation and Engineering Considerations.”** Emission factors in grams per mile for criteria pollutants, MSATs, and GHG emissions on both restricted roadways (i.e., expressways, freeways, and interstates) and unrestricted roadways (local roads) were obtained using the MOVES2014a model. Emission factors obtained from the MOVES2014a model were summarized by vehicle type and speed. The average vehicle speeds and vehicle classifications for the AM and PM peak periods projected in the regional transportation analysis described in

Chapter 5, “Transportation and Engineering Considerations” were used to calculate emission factors along individual roadway segments.

Average daily traffic volumes projected in the modeled area in the regional transportation analysis described above for individual segments were multiplied by the length of each modeled segment along with the calculated emission factors to develop daily emissions. Regional emissions associated with the Project were then projected as the summation of all roadway emissions within the study area.

CONSTRUCTION EFFECTS ASSESSMENT

Emissions from on-site construction equipment, on-road construction-related vehicles, and diverted traffic during construction, and dust-generating construction activities have the potential to affect air quality. In general, much of the heavy equipment used in construction is powered by diesel engines that have the potential to produce relatively high PM emissions. Fugitive dust generated by construction activities is also a source of PM. Gasoline engines produce relatively high levels of CO. Since USEPA mandates the use of ultra-low sulfur diesel (ULSD) fuel for all highway and non-road diesel engines, SO_x emitted from the Project’s construction activities would be negligible. Therefore, the pollutants to be analyzed for the construction period are PM₁₀, PM_{2.5}, and CO. The analysis of potential construction air quality effects includes an analysis of both on-site and on-road sources of air emissions, and the combined impact of both sources, where applicable.

ON-SITE CONSTRUCTION ACTIVITY ASSESSMENT

The Martin Luther King, Jr. East (MLK, Jr. East) area was selected for the on-site air quality analysis because of the proximity of construction activities to a number of sensitive receptor locations there, including the Dr. King Elementary School, the State University of New York College of Environmental Science and Forestry, the Tucker Missionary Baptist Church, and a number of residential buildings. This location therefore represents a reasonable-worst case scenario for the analysis. The dispersion analysis included modeling of the worst-case annual and short-term (i.e., 24-hour, 8-hour, and 1-hour) averaging periods. Other areas in the project corridor were not modeled but are discussed qualitatively, based on the reasonable worst-case analysis results.

Engine Emissions

The sizes, types, and number of units of construction equipment were estimated based on the construction activity schedule developed for the Project (see **Chapter 4, Construction Means and Methods**). Emission factors for CO, PM₁₀, and PM_{2.5} from on-site construction engines were developed using USEPA’s NONROAD2008 emission model (NONROAD)⁵. Emission rates from truck engines were developed using the MOVES2014a emission model. Emission rates for the daily and annual periods are estimated by multiplying peak emissions factors by daily and annual usage factors.

⁵ <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles> - “NONROAD2008 has been incorporated into MOVES2014 and MOVES2014a. USEPA recommends using MOVES2014a if you are having problems installing or using NONROAD2008 on newer operating systems.”

On-Site Fugitive Dust

In addition to engine emissions, fugitive dust emissions from operations (e.g., excavation and transferring of excavated materials into dump trucks) were calculated based on USEPA procedures in AP-42 Table 13.2.3-1⁶. In accordance with NYSDOT specifications, it is expected that a dust control plan would be implemented during the construction of the project. Measures that could be included in a dust control plan include requiring trucks that are hauling loose material to be equipped with tight-fitting tailgates and have their loads securely covered prior to leaving the project site; and the use of water sprays for demolition, excavation, and transfer of soils to ensure that materials would be dampened as necessary to avoid the suspension of dust into the air. These measures would effectively reduce PM emissions from dust-generating construction activities.

Dispersion Modeling

Potential effects from construction sources were evaluated using a refined dispersion model, the USEPA/AMS AERMOD dispersion model. AERMOD is a state-of-the-art dispersion model, applicable to rural and urban areas, flat and complex terrain, surface and elevated releases, and multiple sources (including point, area, and volume sources). AERMOD is a steady-state plume model that incorporates current concepts about flow and dispersion in complex terrain and includes updated treatments of the boundary layer theory, understanding of turbulence and dispersion, and handling of terrain interactions.

Source Simulation

As discussed above, the MLK, Jr. East area was selected for the on-site air quality analysis because of the proximity of construction activities to a number of sensitive receptor locations. For short-term model scenarios (predicting concentration averages for periods of 24 hours or less), all stationary sources, such as cranes or concrete trucks, which idle in a single location while unloading, were simulated as point sources. Other engines, such as excavators that move around the site on any given day, were simulated as area sources. For periods of eight hours or less (less than the length of a shift), it was assumed that all engines would be active simultaneously. All sources would move around the site throughout the year and were therefore simulated as area sources in the annual analysis. Sources were assumed to be operating during a typical 8-hour construction workday (i.e., from 7 AM to 3 PM) in the dispersion model, consistent with the assumption presented in **Chapter 4, Construction Means and Methods**.

Background Concentrations

To estimate the maximum expected total pollutant concentrations, the calculated concentrations from the emission sources were added to a background value that accounts for existing pollutant concentrations from other sources. The background levels are based on concentrations monitored at the nearest ambient air monitoring stations (see **Table G-3**).

⁶ EPA Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume I: *Stationary Point and Area Sources*, Section 1.3, Table 1.3-1.

Table G-3

Representative Monitored Ambient Air Quality Data

Pollutant	Location	Concentration
PM _{2.5}	East Syracuse, Onondaga	16.6 µg/m ³
		6.6 µg/m ³
PM ₁₀	Rochester 2, Monroe	35.9 µg/m ³
CO	Rochester Near Road, Monroe	1.2 ppm
		0.8 ppm
Source: NYSDEC, New York State Ambient Air Quality Report (2011-2015).		

Meteorological Data

The meteorological data set consisted of five consecutive years of latest available meteorological data: surface data collected at the nearest representative National Weather Service Station (Syracuse Hancock International Airport) from 2011 to 2015 and concurrent upper air data collected at Albany, NY, the nearest upper air monitoring station. The meteorological data provide hour-by-hour wind speeds and directions, stability states, and temperature inversion elevation over the five-year period. These data were processed using the USEPA AERMET program to develop data in a format that could be readily processed by the AERMOD model.

Receptor Locations

Receptors were placed at locations that would be publicly accessible, at residential and other sensitive uses such as schools at both ground-level and elevated locations (e.g., windows of residences). In addition, a ground-level receptor grid extending one kilometer from the construction sources was established to enable extrapolation of concentrations throughout the study area at locations more distant from construction activities.

Analysis Year

The highest emissions were predicted for 2018 when demolition, superstructure, and earthworks activities would overlap and that there would be an increasing percentage of in-use newer and cleaner vehicles and engines for construction in future years.

CONSTRUCTION-RELATED TRAFFIC DIVERSIONS

During construction of the Project, various connectors and ramps are expected to be closed at times. A shift in the traveling pattern due to temporary ramp and highway closures would increase traffic volumes at some local intersections, potentially increasing pollutant concentrations at those locations. Therefore, microscale analyses were performed to assess the effect of the traffic diversion on air quality. The general methodology for mobile source air quality analysis is discussed above under “Local (Microscale) Assessment.”

Two intersections were selected for microscale analysis within the construction periods (see **Table G-4**). The potential effects from vehicle emissions of PM₁₀ and PM_{2.5} were analyzed at each site. The intersection of Crouse Avenue and Erie Boulevard was selected for analysis in the construction period for the Community Grid Alternative due the potential effects of the westbound I-690 shutdown on traffic conditions analyzed for Phase 2B (see **Chapter 4, “Construction Means and Methods”**). The proximity to sensitive receptors at this location was also considered..

Potential air quality effects associated with the traffic diversions that are expected to occur during construction activities for the Viaduct Alternative were analyzed for PM₁₀ and PM_{2.5} at MLK, Jr. East at the southbound I-81 on-ramp and MLK, Jr. East at the northbound I-81 off-ramp due the highest projected volume increase expected at this ramp location. The proximity to sensitive receptors at this location was also considered. Traffic diversions were analyzed for Phase 3 (see **Chapter 4, “Construction Means and Methods”**), during the closure of I-81 between MLK, Jr. East and Butternut Street.

Table G-4
Construction-Related Traffic Diversions Analysis Sites

Analysis Site	Location	Alternative
1	Crouse Avenue and Erie Boulevard	Community Grid
5	Martin Luther King Jr Boulevard and I-81	Viaduct

Additionally, construction activities would generate both worker automobile trips and construction truck trips. The mobile-source-related GHG emissions from the Viaduct and Community Grid Alternatives were developed using the fleet wide average fuel efficiency for automobiles and heavy duty trucks⁷ along with default fuel emission factors.⁸

COMBINED IMPACT

Since emissions from both on-site construction equipment and construction-related traffic diversion may contribute to concentrations concurrently at the same location, the combined effect was assessed where applicable. Maximum concentrations were conservatively added together regardless of receptor locations in order to estimate the maximum combined impact potential. The combined total is a conservatively high estimate of potential effects.

D. EXISTING CONDITIONS

Pollutant levels measured at area monitoring stations are used to characterize existing conditions. Concentrations of relevant regulated pollutants at monitoring stations closest to the project area are shown in **Table G-5**. These values are the most recent data available at the time the analyses for this Project were undertaken, and are consistent with the background conditions used in the future conditions analyses (see below). As shown in the table, the monitored levels do not exceed the NAAQS.

⁷ EPA. *Annual Energy Outlook 2016*. September, 2016

⁸ The Climate Registry. *Default Emissions Factors 2016*. April, 2016

Table G-5

Representative Monitored Ambient Air Quality Data

Pollutant	Location	Units	Averaging Period	Concentration	NAAQS
CO	Rochester Near Road, Monroe	ppm	1-hour	1.2	35
			8-hour	0.8	9
SO ₂	East Syracuse, Onondaga	ppb	1-hour (1)	4.9	75
			3-hour (2)	10.2	500
PM ₁₀	Rochester 2, Monroe	µg/m ³	24-hour	32	150
PM _{2.5}	East Syracuse, Onondaga	µg/m ³	24-hour (3)	16.6	35
			Annual	6.6	12
NO ₂	Buffalo, Erie	ppb	1-hour (4)	51.5	100
			Annual	11.1	53
Lead	Rochester 2, Monroe	µg/m ³	3-month	0.003	0.15
Ozone	East Syracuse, Onondaga	ppm	8-hour	0.06	0.70

Notes:

- (1) The 1-hour value is based on a three-year average (2013-2015) of the 99th percentile of daily maximum 1-hour average concentrations. USEPA replaced the 24-hr and the annual standards with the 1-hour standard.
- (2) The 3-hour value is based on the maximum 3-hour average concentration in 2011-2012, the latest years of reported 3-hour concentrations.
- (3) The 24-hour value is based on a three-year average (2013-2015) of the 98th percentile of 24-hour average concentrations.
- (4) The 1-hour value is based on a three-year average (2013-2015) of the 98th percentile of daily maximum 1-hour average concentrations.

Source: NYSDEC, New York State Ambient Air Quality Report (2011-2015).

E. NO BUILD ALTERNATIVE

Under the No Build Alternative, the existing roadways would remain with only routine maintenance and minor repairs. No new roadways or associated supporting infrastructure would be constructed. Emissions would continue to be emitted from existing sources including on-road emissions in the project area. Construction emissions associated with the project would not occur, but emissions associated with maintenance of aging roadway facilities would increase. An assessment of the No Build Alternative was performed for comparison to the Viaduct and Community Grid Alternatives.

F. VIADUCT ALTERNATIVE

MICROSCALE ANALYSIS

CO MICROSCALE SCREENING ANALYSIS

LOS Screening Analysis

Based on the review of the intersections analyzed for the Transportation analysis (**Chapter 5, “Transportation and Engineering Considerations”**), 24, 25 and 37 intersections were projected to operate at a LOS D or worse on approaches during one or both of the peak traffic periods analyzed in the 2020, 2030, and 2050 analysis years, respectively.

DRAFT FOR AGENCY REVIEW

Capture Criteria Screening Analysis

The capture criteria screening analysis indicated that there would be a 10 percent or more increase in traffic volume or 20 percent or more decrease in speed on affected roadways for the Viaduct Alternative at 7, 11, and 18 of the intersections for the three analysis years, respectively, requiring a Volume Threshold Screening analysis at these locations.

Volume Threshold Screening

The results of the LOS screening, capture criteria, and volume threshold screening analyses are included as an attachment to this appendix. The highest Build peak hour traffic volume at these locations was projected to be 2,493 at the intersection of North Geddes Street & Genesee Street; which is below the Volume Threshold criteria of 3,800 vehicles in the peak hour, which was determined by comparing the associated emission factor of 8.65 grams per mile, developed from MOVES2014a based on speed and vehicle mix, to Table 3C of the TEM. Therefore, a CO microscale dispersion modeling was not warranted for all of the intersections for the Viaduct Alternative. The Viaduct Alternative would not increase traffic volumes, reduce source-receptor distances or change other existing conditions to such a degree as to jeopardize attainment of the CO NAAQS.

PARTICULATE MATTER (PM) MICROSCALE ANALYSIS

PM concentrations for the critical analysis year 2020 would be below the NAAQS and would not be result in an increase greater than 1.1 percent from the concentrations predicted under the No Build Alternative (see **Table G-6**). Furthermore, due to improved speeds at Site 1 and shift in roadway geometry at Site 3, concentrations at these sites are projected to decrease when compared with the No Build Alternative.

Table G-6

PM_{2.5} and PM_{2.5} Maximum Predicted Concentrations at Analysis Sites (µg/m³)

Analysis Site	Pollutant	Averaging Period	No Build Total Concentration	Viaduct Alternative Total Concentration	NAAQS
Site 1: Crouse Avenue and Burnet Avenue to Crouse Avenue and Erie Boulevard	PM ₁₀	24-Hour	49.9	47.2	150
	PM _{2.5}	24-Hour	20.9	19.8	35
		Annual	8.2	7.8	12
Site 2: N. West Street and W. Genesee Street	PM ₁₀	24-Hour	43.5	44.0	150
	PM _{2.5}	24-Hour	17.8	18.0	35
		Annual	7.1	7.1	12
Site 3: Almond Street and Harrison Street	PM ₁₀	24-Hour	54.8	50.6	150
	PM _{2.5}	24-Hour	20.7	19.6	35
		Annual	7.9	7.7	12

Notes:

Total PM₁₀ concentrations include a background concentration of 35.9 µg/m³ based on 2013-2015 data at the Rochester 2 monitoring station; total PM_{2.5} concentrations include a background concentration of 16.6 µg/m³ and 6.6 µg/m³ for 24-hour and annual PM_{2.5}, respectively, based on 2013-2015 data at the East Syracuse monitoring station.

MESOSCALE ANALYSIS

A mesoscale emissions analysis for CO, VOC, NO_x, and PM was conducted in accordance with TEM using the USEPA mobile source emissions model, MOVES2014a, and the results of the regional traffic modeling conducted for the Viaduct Alternative. The study area used for the regional traffic modeling, which includes a network of interstate segments, ramp connections, and intersections that span the county and incorporate planned transportation projects in the No Build Alternative and the Viaduct Alternative, was used as the study area for the mesoscale analysis (see **Chapter 5, “Transportation and Engineering Considerations”** for traffic information). The mesoscale analysis was conducted for the year 2020 (estimated time of completion or ETC), year 2030 (ETC+10), and year 2050 (ETC+30).

The projected vehicle miles traveled (VMT) and the mesoscale emissions associated with traffic conditions under the Viaduct Alternative are shown in **Table G-7**. Compared to the No Build Alternative, in year 2020, the Viaduct Alternative would result in higher emissions of CO and lower emissions of all other modeled criteria pollutants. In years 2030 and 2050, the Viaduct Alternative would result in higher area-wide emissions of all modeled criteria pollutants as the projected improvements in emissions from engine technology become less pronounced in later years and offset less of the growth in traffic. However, these increases would be area-wide and would not represent a substantial increase at any single specific location.

Table G-7
Criteria Pollutant Emissions in the No Build and Viaduct Alternatives

Analysis Year	Alternative	Annual VMT	Tons per Year				
			CO	NO _x	VOC	PM ₁₀	PM _{2.5}
2020 (ETC)	No Build	3,729,123,504	11,819.2	1,715.4	230.0	80.9	73.1
	Viaduct	3,730,998,258	11,820.1	1,712.2	228.8	80.8	73.0
	Difference	1,874,754 (0.1%)	0.9 (0.0%)	-3.2 (-0.2%)	-1.2 (-0.5%)	-0.1 (-0.1%)	-0.1 (-0.1%)
2030 (ETC+10)	No Build	3,834,111,985	5,760.5	759.6	113.9	33.3	30.1
	Viaduct	3,842,875,479	6,029.9	770.2	115.0	34.6	31.2
	Difference	8,763,493 (0.2%)	269.3 (4.7%)	10.6 (1.4%)	1.1 (1.0%)	1.3 (3.9%)	1.2 (3.8%)
2050 (ETC+30)	No Build	3,917,525,200	3,272.6	327.9	46.4	8.9	8.0
	Viaduct	4,075,649,970	3,411.5	339.6	48.5	9.3	8.3
	Difference	158,124,770 (4.0%)	138.9 (4.2%)	11.7 (3.6%)	2.1 (4.5%)	0.4 (4.1%)	0.3 (4.1%)

The increase in regional emissions would not result in an increase of greater than 4.7 percent of any of the pollutants analyzed from transportation sources. The changes in emissions are driven by two opposing processes—improvements, or decrease, in fleet-wide average emissions per vehicle-mile over time as engine technology improves, and increase in traffic volumes from growth. In the 2030 analysis year, the emissions increases would be much larger in percentage than the increase in VMT since the improvements in emission rates generated (see Attachments) are projected to decrease to a lesser extent than the extent of traffic growth, compared to other years, thus resulting in less pronounced offsetting of the traffic effects. While the Viaduct

Alternative may not reduce VMT as well as emissions overall, within the design aimed at achieving the various objectives of the project, consideration would nonetheless be given to improving traffic flow and other aspects affecting regional emissions where practicable.

MOBILE SOURCE AIR TOXICS (MSATS) ANALYSIS

A quantitative analysis was conducted to determine the annual emissions of MSATs anticipated under the Viaduct Alternative using emission factors obtained from the MOVES2014a emissions model. The analysis was conducted prior to the publication of FHWA's updated interim guidance was issued on October 18, 2016 and was based on FHWA's December 2012 updated interim guidance on MSATs. The potential differences in MSAT emissions due to the changes in projected VMT between the No Build and Viaduct Alternatives were assessed on an area-wide, or mesoscale, level for 1,3-Butadiene, Benzene, Formaldehyde, Acrolein, Naphthalene, Polycyclic Organic Matter (POM), and Diesel PM (DPM).

The MSAT emissions associated with the No Build and Viaduct Alternatives are shown in **Table G-8**. Compared to the No Build Alternative, in years 2020 and 2030, the Viaduct Alternative would result in higher emissions of naphthalene and lower emissions of all other MSAT pollutants modeled, due to each compound's sensitivity to changes in traffic volume, vehicle mix, and travel speed. In year 2050, the Viaduct Alternative would result in higher emissions of all MSAT pollutants modeled due to the higher VMT compared to the No Build Alternative.

**Table G-8
MSAT Emissions in the No Build and Viaduct Alternatives**

Analysis Year	Alternative	Annual VMT	Tons per Year						
			1,3-Butadiene	Benzene	Formaldehyde	Acrolein	Naphthalene	POM	DPM ⁽¹⁾
2020 (ETC)	No Build	3,729,123,504	5.45E-01	6.35E+00	1.05E+01	6.27E-01	1.72E-03	5.43E-01	3.88E+01
	Viaduct	3,730,998,258	5.41E-01	6.33E+00	1.04E+01	6.22E-01	1.73E-03	5.39E-01	3.85E+01
	Difference	1,874,754 (0.1%)	-3.91E-03 (-0.7%)	-2.68E-02 (-0.4%)	-8.40E-02 (-0.8%)	-5.40E-03 (-0.9%)	4.73E-06 (0.3%)	-3.62E-03 (-0.7%)	-2.99E-01 (-0.8%)
2030 (ETC+10)	No Build	3,834,111,985	1.59E-01	2.98E+00	6.25E+00	4.07E-01	8.85E-04	2.82E-01	1.65E+01
	Viaduct	3,842,875,479	1.59E-01	2.97E+00	6.21E+00	4.05E-01	8.88E-04	2.81E-01	1.64E+01
	Difference	8,763,493 (0.2%)	-5.81E-04 (-0.4%)	-2.37E-03 (-0.1%)	-3.35E-02 (-0.5%)	-1.97E-03 (-0.5%)	3.27E-06 (0.4%)	-7.35E-04 (-0.3%)	-6.96E-02 (-0.4%)
2050 (ETC+30)	No Build	3,917,525,200	7.44E-03	1.69E+00	2.69E+00	1.17E-01	4.32E-04	5.66E-02	3.79E+00
	Viaduct	4,075,649,970	7.71E-03	1.76E+00	2.80E+00	1.21E-01	4.50E-04	5.89E-02	3.92E+00
	Difference	158,124,770 (4.0%)	2.63E-04 (3.5%)	7.46E-02 (4.4%)	1.01E-01 (3.8%)	4.33E-03 (3.7%)	1.77E-05 (4.1%)	2.32E-03 (4.1%)	1.23E-01 (3.2%)
Notes:									
(1) The VMT applied to DPM include only VMT estimated for diesel vehicles.									

Similar to the results of the mesoscale analysis, the increases in MSAT emissions would be area-wide and would not be located at any one particular area. The increase to MSAT emissions would not result in an increase of greater than 4.6 percent for any of the MSATs analyzed. While the Viaduct Alternative may not reduce VMT as well as emissions overall, within the design aimed at achieving the various objectives of the project, consideration would nonetheless be given to improving traffic flow and other aspects affecting regional emissions where practicable.

G. COMMUNITY GRID ALTERNATIVE

MICROSCALE ANALYSIS

CO MICROSCALE SCREENING ANALYSIS

LOS Screening Analysis

Based on the review of the intersections analyzed for the Transportation analysis, 35, 39, and 43 intersections were projected to operate at a LOS D or worse on approaches during one or both of the peak traffic periods analyzed in the 2020, 2030, and 2050 analysis years, respectively.

Capture Criteria Screening Analysis

The LOS screening analysis indicated that there would be a 10 percent or more increase in traffic volume or a 20 percent or more decrease in speed on affected roadways for the Community Grid Alternative at 25, 24, and 28 of the intersections for the three analysis years, respectively, requiring a Volume Threshold Screening analysis at these locations.

Volume Threshold Screening

The results of the LOS Screening, Capture Criteria, and Volume Threshold screening analyses are included as an attachment to this appendix. The highest peak hour traffic volume at these locations was projected to be 2,651 at the intersection of South Geddes Street and West Fayette Street; which is below the Volume Threshold criteria of 3,800 vehicles in the peak hour, which was determined by comparing the associated emission factor of 8.65 grams per mile, developed from MOVES2014a based on speed and vehicle mix, to Table 3C of the TEM. Therefore, a CO microscale dispersion modeling was not warranted for all of the intersections for the Community Grid Alternative. The Community Grid Alternative would not increase traffic volumes, reduce source-receptor distances or change other existing conditions to such a degree as to jeopardize attainment of the CO NAAQS.

PARTICULATE MATTER (PM) MICROSCALE ANALYSIS

With the Community Grid Alternative, PM concentrations would be below the NAAQS and would not result in an increase greater than 18 percent from the concentrations predicted under the No Build Alternative (see **Table G-9**). Furthermore, due to the shift in roadway geometry as well as the removal of the I-81 viaduct, concentrations at Site 3 are projected to decrease when compared with the No Build Alternative.

Table G-9
PM_{2.5} and PM_{2.5} Maximum Predicted Concentrations at Analysis Sites (µg/m³)

Analysis Site	Pollutant	Averaging Period	No Build Total Concentration	Community Grid Alternative Total Concentration	NAAQS
Site 1: Crouse Avenue and Burnet Avenue to Crouse Avenue and Erie Boulevard	PM ₁₀	24-Hour	49.9	58.7	150
	PM _{2.5}	24-Hour	20.9	23.6	35
		Annual	8.2	9.0	12
Site 2: N. West Street and W. Genesee Street	PM ₁₀	24-Hour	43.5	46.5	150
	PM _{2.5}	24-Hour	17.8	18.8	35
		Annual	7.1	7.3	12
Site 3: Almond Street and Harrison Street	PM ₁₀	24-Hour	54.8	42.0	150
	PM _{2.5}	24-Hour	20.7	17.5	35
		Annual	7.9	6.9	12
Site 4: State Street and Erie Boulevard	PM ₁₀	24-Hour	48.1	47.8	150
	PM _{2.5}	24-Hour	19.2	19.2	35
		Annual	7.6	7.4	12
Notes: Total PM ₁₀ concentrations include a background concentration of 35.9 µg/m ³ based on 2013-2015 data at the Rochester 2 monitoring station; total PM _{2.5} concentrations include a background concentration of 16.6 µg/m ³ and 6.6 µg/m ³ for 24-hour and annual PM _{2.5} , respectively, based on 2013-2015 data at the East Syracuse monitoring station.					

MESOSCALE ANALYSIS

A mesoscale emissions analysis for CO, VOC, NO_x, and PM was conducted in accordance with the TEM using the USEPA mobile source emissions model, MOVES2014a, and the results of the regional traffic modeling conducted for the Community Grid Alternative. The study area used for the traffic modeling was used as the study area for the mesoscale analysis. This area includes a county-wide network of interstate segments, ramp connections, and intersections that incorporate planned transportation projects in the No Build Alternative and the Community Grid Alternative (see **Chapter 5, “Transportation and Engineering Considerations”** for traffic information). The mesoscale analysis was conducted for the year 2020 (ETC), year 2030 (ETC+10), and year 2050 (ETC+30).

The mesoscale emissions associated with traffic conditions under the Community Grid Alternative are shown in **Table G-10**. Compared to the No Build Alternative, in year 2020, the Community Grid Alternative would result in higher emissions of VOCs and lower emissions of all other modeled criteria pollutants as a result of the improvements in vehicle emission control technologies. In year 2030, the Community Grid Alternative would result in lower emissions of NO_x and higher emissions of all other modeled criteria pollutants. In year 2050, due to the higher overall VMT compared to the No Build Alternative, the Community Grid Alternative would result in higher emissions of all modeled criteria pollutants. However, these increases would be area-wide and include would not represent a substantial increase at any single specific location.

Table G-10

Criteria Pollutant Emissions in the No Build and Community Grid Alternatives

Analysis Year	Alternative	Annual VMT	Tons per Year				
			CO	NO _x	VOC	PM ₁₀	PM _{2.5}
2020 (ETC)	No Build	3,729,123,504	11,819.2	1,715.4	230.0	80.9	73.1
	Community Grid	3,723,299,253	11,809.1	1,712.0	238.1	80.6	72.8
	Difference	-5,824,251 (-0.2%)	-10.2 (-0.1%)	-3.5 (-0.2%)	8.1 (3.5%)	-0.3 (-0.4%)	-0.3 (-0.4%)
2030 (ETC+10)	No Build	3,834,111,985	5,760.5	759.6	113.9	33.3	30.1
	Community Grid	3,835,874,787	6,017.6	751.9	119.9	30.8	34.2
	Difference	1,762,802 (0.05%)	257.1 (4.5%)	-7.7 (-1.0%)	6.0 (5.2%)	0.9 (2.6%)	0.8 (2.5%)
2050 (ETC+30)	No Build	3,917,525,200	3,272.6	327.9	46.4	8.9	8.0
	Community Grid	4,067,945,999	3,704.5	349.9	51.2	9.9	8.9
	Difference	150,420,799 (3%)	431.8 (13.2%)	22.0 (6.7%)	4.8 (10.4%)	1.0 (11.2%)	0.9 (11.2%)

The increase in regional emissions would not result in an increase of greater than 13.2 percent from transportation sources for any of the pollutants analyzed. While the Community Grid Alternative may not reduce VMT as well as emissions overall, within the design aimed at achieving the various objectives of the project, consideration would nonetheless be given to improving traffic flow and other aspects affecting regional emissions where practicable.

MOBILE SOURCE AIR TOXICS (MSATS) ANALYSIS

The area-wide MSAT emissions associated with the Community Grid Alternative are shown in **Table G-11**. There would be increases and decreases in MSAT emissions depending on each compound's sensitivity to changes in traffic volume, vehicle mix, and travel speed in 2020 and 2030, and there would be increases in emissions in 2050 due to the higher increase in VMT over the No Build Alternative compared to other years.

Similar to the results of the mesoscale analysis, the increases in MSAT emissions would be area-wide and would not be located at any one particular area. The increase to MSAT emissions would not result in an increase of greater than 5.7 percent in any MSAT. While the Community Grid Alternative may not reduce VMT as well as emissions overall, within the design aimed at achieving the various objectives of the project, consideration would nonetheless be given to improving traffic flow and other aspects affecting regional emissions where practicable.

Table G-11
MSAT Emissions in the No Build and Community Grid Alternatives

Analysis Year	Alternative	Annual VMT	Tons per Year						
			1,3-Butadiene	Benzene	Formaldehyde	Acrolein	Naphthalene	POM	DPM ⁽¹⁾
2020 (ETC)	No Build	3,729,123,504	5.45E-01	6.35E+00	1.05E+01	6.27E-01	1.72E-03	5.43E-01	3.88E+01
	Community Grid	3,723,299,253	5.46E-01	6.36E+00	1.04E+01	6.26E-01	1.72E-03	5.42E-01	3.85E+01
	Difference	-5,824,251 (-0.2%)	1.25E-03 (0.2%)	1.17E-02 (0.2%)	-2.56E-02 (-0.2%)	-1.53E-03 (-0.2%)	-6.81E-06 (-0.4%)	-1.08E-03 (-0.2%)	-2.88E-01 (-0.7%)
2030 (ETC+10)	No Build	3,834,111,985	1.59E-01	2.98E+00	6.25E+00	4.07E-01	8.85E-04	2.82E-01	1.65E+01
	Community Grid	3,835,874,787	1.58E-01	2.97E+00	6.05E+00	3.97E-01	8.73E-04	2.79E-01	1.59E+01
	Difference	1,762,802 (0.05%)	-1.31E-03 (-0.8%)	-7.67E-03 (-0.3%)	-1.93E-01 (-3.1%)	-9.75E-03 (-2.4%)	-1.13E-05 (-1.3%)	-2.88E-03 (-1.0%)	-5.86E-01 (-3.5%)
2050 (ETC+30)	No Build	3,917,525,200	7.44E-03	1.69E+00	2.69E+00	1.17E-01	4.32E-04	5.66E-02	3.79E+00
	Community Grid	4,067,945,999	7.71E-03	1.77E+00	2.80E+00	1.21E-01	4.48E-04	5.90E-02	3.90E+00
	Difference	150,420,799 (3%)	2.71E-04 (3.6%)	8.33E-02 (4.9 %)	1.07E-01 (4.0%)	4.52E-03 (3.9%)	1.62E-05 (3.8%)	2.37E-03 (4.2%)	1.09E-01 (2.9%)
Notes: (1) The VMT applied to DPM include only VMT estimated for diesel vehicles.									

*

Attachments

Operational Microscale Analysis

ID	Intersection	Control Type		V4 2020				10% Decrease in	Additional	No Build Volume		Build (V4) Volume		10% Trigger		No Build Speed		Build (V4) Speed		Speed		Volume Threshold Screening			
				AM Peak Hour		PM Peak Hour								% Increase						% Change					
		NB	BD	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Source-Receptor Distance?	Queued Lanes?	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	Speed	Cruise EF	Threshold (TEM Tables 3b/3c)	
	Downtown and South Side																								
D-1	N. West St & NY 5/W. Genesee St	s	s	19.5	B	24.6	C			-	-	-	-	-	-	-	-	-	-	-	-				
D-2	West St Access Ramp & Erie Blvd W.	u	u	1.3	A	0.9	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-3	Southbound S. West St & W. Fayette St	s	s	10.8	B	9.5	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-4	Northbound S. West St & W. Fayette St	s	s	9.8	A	15.8	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-5	S. West St & Gifford St	s	s	18.9	B	16.6	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-6	S. West St & Seymour St	s	s	26.8	C	15.0	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-7	S. West St & Shonnard St	s	s	22.0	C	19.2	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-8	S. West St & W. Onondaga St	s	s	11.8	B	25.7	C			-	-	-	-	-	-	-	-	-	-	-	-				
D-9	Wallace St & Herald Pl	u	u	6.0	A	3.8	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-10	Wallace St & NY 5/W. Genesee St	s	s	15.7	B	1.0	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-11	N. Franklin St/Butternut St. & N. Franklin St/	s	s	19.5	B	19.3	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-12	N. Franklin St & Herald Pl	s	s	7.0	A	14.3	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-13	N. Franklin St & NY 5/W. Genesee St	s	s	20.5	C	21.2	C			-	-	-	-	-	-	-	-	-	-	-	-				
D-14	N./S. Franklin St & Erie Blvd W.	s	s	39.9	D	14.7	B			1473	-	1475	-	0.14%	-	2.89	-	2.75	-	-4.76%	-				
D-15	S. Franklin St & W. Water St	u	u	1.8	A	5.8	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-16	S. Franklin St & W. Washington St	s	s	9.1	A	14.1	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-17	S. Franklin St & W. Fayette St	s	s	20.5	C	15.8	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-18	S. Franklin St & Walton St	u	u	2.5	A	2.9	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-19	N. Clinton St & Websters Landing	u	u	3.7	A	1.4	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-20	N. Clinton St & Herald Pl	s	s	13.7	B	18.7	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-21	N. Clinton St & NY 5/W. Genesee St	s	s	24.6	C	35.6	D			-	1528	-	1665	-	8.97%	-	1.83	-	2.04	-	11.65%				
D-22	N./S. Clinton St & Erie Blvd W.	u	u	1.2	A	3.8	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-23	S. Clinton St at W. Water St	s	s	1.0	A	4.0	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-24	S. Clinton St & W. Washington St	s	s	14.7	B	19.5	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-25	S. Clinton St & W. Fayette St	s	s	13.6	B	5.7	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-26	S. Clinton St & W. Jefferson St	s	s	8.1	A	8.6	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-27	S. Clinton St & W. Onondaga St	s	s	15.6	B	17.9	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-28	S. Clinton St & W. Adams St	s	s	9.0	A	15.8	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-29	S. Clinton St & Tallman St	s	s	3.1	A	10.2	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-30	Pearl St & N. Salina St	u	u	2.7	A	2.5	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-32	N. Salina St & Herald Pl	s	s	42.9	D	18.4	B			1146	-	813	-	-29.06%	-	3.16	-	3.58	-	13.50%	-				
D-33	N. Salina St & E./W. Willow St	s	s	43.4	D	7.0	A			1090	-	908	-	-16.70%	-	3.75	-	3.39	-	-9.66%	-				
D-34	N. Salina St & NY 5/W. Genesee St/James St	s	s	21.8	C	17.1	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-35	S. Salina St & E./W. Water St	s	s	7.5	A	16.1	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-36	S. Salina St & E./W. Washington St	s	s	17.7	B	15.5	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-37	S. Salina St & E./W. Fayette St	s	s	13.8	B	8.7	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-38	S. Salina St & E./W. Jefferson St	s	s	13.0	B	13.2	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-39	S. Salina St & Harrison St and Onondaga St	s	s	29.1	C	32.1	C			-	-	-	-	-	-	-	-	-	-	-	-				
D-40	S. Salina St & E./W. Adams St	s	s	38.7	D	25.8	C			1620	-	1612	-	-0.49%	-	3.09	-	1.21	-	-60.89%	-	1.21	8.65	3800	Pass
D-41	S. Salina St & E./W. Taylor St	s	s	14.3	B	14.0	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-42	S. Salina St & Burt St and Cortland Av	s	s	11.2	B	11.1	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-43	S. Salina St & Tallman St/Coyne Corners	u	u	3.2	A	4.1	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-44	US 11/S. Salina St & US 11/E. Raynor St	s	s	10.0	A	10.7	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-45	US 11/S. Salina St & E./W. MLK Jr Dr	s	s	11.5	B	13.5	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-46	Pearl St & Hickory St	u	u	0.8	A	4.2	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-47	Pearl St & E. Willow St	u	u	0.8	A	1.4	A	potential		-	-	-	-	-	-	-	-	-	-	-	-				
D-48	N. Warren St & E. Willow St	u	u	2.5	A	10.2	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-49	N. Warren St & NY 5/James St	s	s	13.3	B	23.6	C			-	-	-	-	-	-	-	-	-	-	-	-				
D-50	N. Warren St. & E. Erie Blvd	u	u	0.2	A	0.2	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-51	S. Warren St & E. Water St	s	s	7.5	A	18.3	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-52	S. Warren St & E. Washington St	s	s	9.8	A	10.0	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-53	S. Warren St & E. Fayette St	s	s	9.1	A	21.2	C			-	-	-	-	-	-	-	-	-	-	-	-				
D-54	S. Warren St & E. Jefferson St	s	s	12.0	B	16.8	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-55	S. Warren St & E. Onondaga St and Madison St	s	s	21.5	C	22.7	C			-	-	-	-	-	-	-	-	-	-	-	-				
D-56	S. Warren St & Harrison St	s	s	22.9	C	15.6	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-57	S. Warren St & E. Adams St	s	s	6.5	A	9.9	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-58	Oswego Blvd & James St	s	s	27.9	C	67.4	E			-	995	-	842	-	-15.38%	-	1.53	-	1.66	-	8.61%				
D-59	NY 5/Oswego Blvd/ & Montgomery St	s	s	7.5	A	13.7	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-60	Montgomery St & E. Water St	s	s	15.1	B	17.6	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-61	Montgomery St & E. Washington St	s	s	8.0	A	10.8	B			-	-	-	-	-	-	-	-	-	-	-	-				
D-62	Montgomery St & E. Fayette St	s	s	9.2	A	8.4	A			-	-	-	-	-	-	-	-	-	-	-	-				
D-63	Montgomery St & E. Jefferson St	s	s	13.0	B	12.5	B			-	-	-	-	-	-	-	-	-	-	-	-				

D-64	Montgomery St and E. Onondaga St	s	s	18.1	B	5.6	A	-	-	-	-	-	-	-	-	-	-
D-65	Montgomery St & Madison St	s	s	8.2	A	13.1	B	-	-	-	-	-	-	-	-	-	-
D-66	Montgomery St & Harrison St	s	s	6.5	A	12.9	B	-	-	-	-	-	-	-	-	-	-
D-67	Montgomery St & E. Adams St	s	s	6.9	A	13.3	B	-	-	-	-	-	-	-	-	-	-
D-68	US 11/N. State St & Hickory St	u	u	1.3	A	2.0	A	-	-	-	-	-	-	-	-	-	-
D-69	US 11/N. State St & E. Willow St	s	s	11.2	B	15.2	B	-	-	-	-	-	-	-	-	-	-
D-70	US 11/N. State St & James St	s	s	24.8	C	28.2	C	-	-	-	-	-	-	-	-	-	-
D-71	US 11/S. State St & NY 5/Erie Blvd E.	s	s	38.4	D	20.7	C	1215	-	1128	-7.16%	-	1.74	-	2.03	-	16.46%
D-72	US 11/S. State St & E. Water St	s	s	14.4	B	23.3	C	-	-	-	-	-	-	-	-	-	-
D-73	US 11/S. State St & E. Washington St	s	s	14.4	B	17.8	B	-	-	-	-	-	-	-	-	-	-
D-74	US 11/S. State St & E. Fayette St	s	s	8.3	A	16.5	B	-	-	-	-	-	-	-	-	-	-
D-75	US 11/S. State St & NY 92/E. Genesee St	s	s	12.6	B	11.1	B	-	-	-	-	-	-	-	-	-	-
D-76	US 11/S. State St & E. Jefferson St	s	s	15.2	B	23.3	C	-	-	-	-	-	-	-	-	-	-
D-77	US 11/S. State St & Madison St	s	s	24.8	C	24.4	C	-	-	-	-	-	-	-	-	-	-
D-78	US 11/S. State St & Harrison St	s	s	23.6	C	12.0	B	-	-	-	-	-	-	-	-	-	-
D-79	US 11/S. State St & E. Adams St	s	s	11.6	B	16.1	B	-	-	-	-	-	-	-	-	-	-
D-80	S. State St & Burt St	u	u	11.1	B	12.2	B	-	-	-	-	-	-	-	-	-	-
D-81	S. State St & E. MLK Jr Dr	s	s	8.2	A	8.9	A	-	-	-	-	-	-	-	-	-	-
D-82	N. Townsend St & Burnet Av	s	s	31.5	C	10.4	B	-	-	-	-	-	-	-	-	-	-
D-84	N./S. Townsend St & NY 5/Erie Blvd E.	s	s	15.0	B	15.5	B	-	-	-	-	-	-	-	-	-	-
D-85	S. Townsend St & E. Water St	s	s	3.1	A	34.6	C	-	-	-	-	-	-	-	-	-	-
D-86	S. Townsend St & E. Washington St	s	s	7.8	A	23.4	C	-	-	-	-	-	-	-	-	-	-
D-87	S. Townsend St & E. Fayette St	s	s	10.1	B	19.0	B	-	-	-	-	-	-	-	-	-	-
D-88	S. Townsend St & NY 92/E. Genesee St	s	s	14.9	B	28.5	C	-	-	-	-	-	-	-	-	-	-
D-89	S. Townsend St & Harrison St	s	s	18.0	B	17.3	B	-	-	-	-	-	-	-	-	-	-
D-90	S. Townsend St & E. Adams St	s	s	27.1	C	39.8	D	-	1775	-	1805	-	1.69%	-	1.58	-	1.31
D-91	Oakwood Av & E. MLK Jr Dr	s	s	11.9	B	6.8	A	-	-	-	-	-	-	-	-	-	-17.20%
D-92	N. McBride St & EB I-690 Onramp	s	s	9.4	A	16.7	B	-	-	-	-	-	-	-	-	-	-
D-93	N./S. McBride St & NY 5/Erie Blvd E.	s	s	21.6	C	10.2	B	-	-	-	-	-	-	-	-	-	-
D-94	S. McBride St & E. Water St	s	s	17.7	B	21.3	C	-	-	-	-	-	-	-	-	-	-
D-95	S. McBride St & E. Washington St	s	s	13.8	B	16.7	B	-	-	-	-	-	-	-	-	-	-
D-96	S. McBride St & E. Fayette St	s	s	7.6	A	18.9	B	-	-	-	-	-	-	-	-	-	-
D-97	S. McBride St & NY 92/E. Genesee St	s	s	24.0	C	40.9	D	-	799	-	806	-	0.88%	-	3.09	-	3.01
D-98	S. McBride St & E. Adams St	s	s	5.7	A	5.1	A	-	-	-	-	-	-	-	-	-	-2.48%
D-99	Catherine St & Burnet Av	s	s														

[illegible]

ID	Intersection	Control Type		V4 2030				10% Decrease in	Additional	No Build		Volume		Build (V4) Volume		10% Trigger		No Build Speed		Build (V4) Speed		Speed		Volume Threshold Screening			
				AM Peak Hour		PM Peak Hour										% Increase						% Change		Volume Threshold Screening			
		NB	BD	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Source-Receptor Distance?	Queued Lanes?	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	Speed	Cruise EF	Threshold (TEM Tables 3b/3c)	
	Downtown and South Side																										
D-1	N. West St & NY 5/W. Genesee St	s	s	22.0	C	29.3	C			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-2	West St Access Ramp & Erie Blvd W.	u	u	0.8	A	0.7	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-3	Southbound S. West St & W. Fayette St	s	s	14.6	B	11.7	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-4	Northbound S. West St & W. Fayette St	s	s	23.3	C	18.6	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-5	S. West St & Gifford St	s	s	9.8	A	13.3	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-6	S. West St & Seymour St	s	s	26.7	C	15.2	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-7	S. West St & Shonnard St	s	s	26.6	C	17.4	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-8	S. West St & W. Onondaga St	s	s	25.2	C	28.2	C			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-9	Wallace St & Herald Pl	u	u	3.9	A	0.4	A			-	-	-	A	-	-	-	-	-	-	-	-	-					
D-10	Wallace St & NY 5/W. Genesee St	s	s	7.5	A	7.0	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-11	N. Franklin St/Butternut St & N. Franklin St/	s	s	6.3	A	23.0	C			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-12	N. Franklin St & Herald Pl	s	s	6.5	A	12.4	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-13	N. Franklin St & NY 5/W. Genesee St	s	s	16.2	B	17.7	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-14	N./S. Franklin St & Erie Blvd W.	s	s	22.5	C	16.9	B			-	-	-	B	-	-	-	-	-	-	-	-	-					
D-15	S. Franklin St & W. Water St	u	u	1.7	A	10.9	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-16	S. Franklin St & W. Washington St	s	s	10.1	B	17.0	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-17	S. Franklin St & W. Fayette St	s	s	14.7	B	12.9	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-18	S. Franklin St & Walton St	u	u	2.7	A	2.9	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-19	N. Clinton St & Websters Landing	u	u	4.3	A	0.9	A			-	-	-	A	-	-	-	-	-	-	-	-	-					
D-20	N. Clinton St & Herald Pl	s	s	11.6	B	21.9	C			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-21	N. Clinton St & NY 5/W. Genesee St	s	s	21.1	C	17.7	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-22	N./S. Clinton St & Erie Blvd W.	u	u	1.1	A	0.7	A			-	-	-	A	-	-	-	-	-	-	-	-	-					
D-23	S. Clinton St at W. Water St	s	s	0.4	A	0.3	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-24	S. Clinton St & W. Washington St	s	s	6.9	A	19.0	B			-	-	-	B	-	-	-	-	-	-	-	-	-					
D-25	S. Clinton St & W. Fayette St	s	s	7.7	A	7.4	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-26	S. Clinton St & W. Jefferson St	s	s	7.1	A	8.9	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-27	S. Clinton St & W. Onondaga St	s	s	12.7	B	11.5	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-28	S. Clinton St & W. Adams St	s	s	10.0	A	20.4	C			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-29	S. Clinton St & Tallman St	s	s	3.1	A	9.3	A			-	-	-	A	-	-	-	-	-	-	-	-	-					
D-30	Pearl St & N. Salina St	u	u	0.9	A	2.2	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-32	N. Salina St & Herald Pl	s	s	9.7	A	24.0	C			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-33	N. Salina St & E./W. Willow St	s	s	15.0	B	6.5	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-34	N. Salina St & NY 5/W. Genesee St/James St	s	s	14.7	B	13.9	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-35	S. Salina St & E./W. Water St	s	s	10.5	B	6.4	A			-	-	-	A	-	-	-	-	-	-	-	-	-					
D-36	S. Salina St & E./W. Washington St	s	s	15.6	B	19.3	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-37	S. Salina St & E./W. Fayette St	s	s	14.0	B	10.1	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-38	S. Salina St & E./W. Jefferson St	s	s	18.1	B	10.2	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-39	S. Salina St & Harrison St and Onondaga St	s	s	28.6	C	33.2	C			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-40	S. Salina St & E./W. Adams St	s	s	19.8	B	30.2	C			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-41	S. Salina St & E./W. Taylor St	s	s	14.2	B	14.1	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-42	S. Salina St & Burt St and Cortland Av	s	s	11.1	B	11.1	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-43	S. Salina St & Tallman St/Coyne Corners	u	u	3.2	A	4.3	A			-	-	-	A	-	-	-	-	-	-	-	-	-					
D-44	US 11/S. Salina St & US 11/E. Raynor St	s	s	10.7	B	10.8	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-45	US 11/S. Salina St & E./W. MLK Jr Dr	s	s	11.7	B	13.5	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-46	Pearl St & Hickory St	u	u	4.5	A	10.0	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-47	Pearl St & E. Willow St	u	u	0.7	A	1.5	A	potential		-	-	-	-	-	-	-	-	-	-	-	-	-					
D-48	N. Warren St & E. Willow St	u	u	5.6	A	7.0	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-49	N. Warren St & NY 5/James St	s	s	4.5	A	7.5	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-50	N. Warren St. & E. Erie Blvd	u	u	0.1	A	0.1	A			-	-	-	A	-	-	-	-	-	-	-	-	-					
D-51	S. Warren St & E. Water St	s	s	10.8	B	10.1	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-52	S. Warren St & E. Washington St	s	s	8.7	A	12.2	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-53	S. Warren St & E. Fayette St	s	s	22.6	C	16.0	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-54	S. Warren St & E. Jefferson St	s	s	8.2	A	20.4	C			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-55	S. Warren St & E. Onondaga St and Madison St	s	s	16.1	B	13.4	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-56	S. Warren St & Harrison St	s	s	10.9	B	16.1	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-57	S. Warren St & E. Adams St	s	s	9.0	A	9.5	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-58	Oswego Blvd & James St	s	s	3.6	A	8.2	A			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-59	NY 5/Oswego Blvd/ & Montgomery St	s	s	6.9	A	15.0	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-60	Montgomery St & E. Water St	s	s	11.1	B	9.4	A			-	-	-	A	-	-	-	-	-	-	-	-	-					
D-61	Montgomery St & E. Washington St	s	s	12.9	B	10.5	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-62	Montgomery St & E. Fayette St	s	s	23.5	C	12.8	B			-	-	-	-	-	-	-	-	-	-	-	-	-					
D-63	Montgomery St & E. Jefferson St	s	s	11.6	B	6.2	A			-	-	-	-	-	-	-	-	-	-	-	-	-					

D-64	Montgomery St and E. Onondaga St	s	s	12.9	B	11.1	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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N-11	US 11/N. State St & US 11/N. Salina St	s	s	13.8	B	18.5	B	-	-	-	-	-	-	-	-	-	-	-	-	-			
N-12	Sunset Av & Bear St	u	u	1.8	A	1.7	A	-	-	-	-	-	-	-	-	-	-	-	-	-			
N-13	Sunset Av & NY 298/Court St	u	u	13.0	B	16.4	C	-	-	-	-	-	-	-	-	-	-	-	-	-			
N-14	N. State St & Catawba St	s	s	8.7	A	12.2	B	-	-	-	-	-	-	-	-	-	-	-	-	-			
N-15	N. State St & Butternut St	s	s	24.2	C	27.6	C	-	-	-	-	-	-	-	-	-	-	-	-	-			
N-16	Park St & Farmers Market Pl	s	s	13.8	B	29.4	C	-	-	-	-	-	-	-	-	-	-	-	-	-			
N-17	Park St & Hiawatha Blvd E.	s	s	22.1	C	35.5	D	-	1603	-	1626	-	1.43%	-	5.40	-	1.79	-	-66.81%	1.79	8.65	3800	Pass
N-18	Park St & Wolf St	u	u	11.3	B	17.9	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-19	Park St & Court St	u	u	12.7	B	13.9	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-20	Park St & Butternut St	s	s	11.3	B	14.0	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-21	Park St & Oak St	u	u	10.1	B	11.1	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-22	N. Townsend St & James St	s	s	12.9	B	15.7	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-23	N. McBride St & James St	s	s	11.6	B	18.2	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-24	Catherine St & James St	s	s	7.0	A	24.2	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-25	Lodi St & James St	s	s	11.1	B	15.7	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-26	Oak St & James St	s	s	14.5	B	15.7	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-27	Dewitt St & James St	s	s	10.7	B	17.0	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-28	Sedgwick Dr & James St	u	u	2.5	A	2.3	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-29	Wilson St & James St	s	s	6.7	A	12.2	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N-30	Teall Av & James St	s	s	24.6	C	46.9	D	-	2495	-	1866	-	-25.21%	-	1.98	-	1.91	-	-3.20%	-	-	-	-
	University Hill							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
U-1	N. Crouse Av & Burnet Av	s	s	14.2	B	14.9	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
U-2	Lodi St & Oak St	u	u	6.5	A	2.7	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
U-3	Teall Av & Burnet Av	s	s	13.3	B	28.1	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
U-4	Westmoreland Av & Burnet Av	u	u	16.2	C	41.7	E	-	1213	-	1203	-	-0.82%	-	4.29	-	4.86	-	13.43%	-	-	-	-
U-7	Teall Av & Canal St	u	u	1.2	A	23.0	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
U-8	Teall Av & Lynch St	u	u	0.8	A	7.3	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
U-9	Forman Av & Erie Blvd E.	u	u	0.8	A	1.0	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
U-10	N./S. Crouse Av & Erie Blvd E.	s	s	17.8	B	18.9	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
U-11	University Av & Erie Blvd E.	u	u																				

U-51	Irving Av & E. Adams St	s	s	21.0	C	19.4	B			-	-	-	-	-	-	-	-	-	-	-					
U-52	S. Crouse Av & E. Adams St	s	s	19.0	B	15.7	B			-	-	-	-	-	-	-	-	-	-	-					
U-53	University Av & E. Adams St	s	s	22.3	C	17.0	B			-	-	-	-	-	-	-	-	-	-	-					
U-54	Walnut Av & E. Adams St	s	s	10.4	B	8.1	A			-	-	-	-	-	-	-	-	-	-	-					
U-55	Comstock Av & E. Adams St	s	s	25.9	C	17.5	B			-	-	-	-	-	-	-	-	-	-	-					
U-56	Irving Av & Waverly Av	s	s	20.6	C	23.0	C			-	-	-	-	-	-	-	-	-	-	-					
U-57	S. Crouse Av & Waverly Av	s	s	14.1	B	10.4	B			-	-	-	-	-	-	-	-	-	-	-					
U-58	University Av & Waverly Av	s	s	26.3	C	32.0	C			-	-	-	-	-	-	-	-	-	-	-					
U-59	Walnut Pl & Waverly Av	s	s	16.7	B	35.8	D			-	581	-	626	-	7.75%	-	1.78	-	1.95	-	9.33%				
U-60	Walnut Av & Waverly Av	s	s	26.2	C	21.9	C			-	-	-	-	-	-	-	-	-	-	-					
U-61	Comstock Av & Waverly Av	s	s	29.0	C	32.4	C			-	-	-	-	-	-	-	-	-	-	-					
U-62	Irving Av & University Pl	s	s	18.0	B	19.8	B			-	-	-	-	-	-	-	-	-	-	-					
U-63	Irving Av & Van Buren St	s	s	18.3	B	15.1	B			-	-	-	-	-	-	-	-	-	-	-					
U-64	Comstock Av & University Pl	s	s	8.5	A	16.2	B			-	-	-	-	-	-	-	-	-	-	-					
U-65	Comstock Av & Euclid Av	s	s	20.5	C	21.0	C			-	-	-	-	-	-	-	-	-	-	-					
U-66	Westcott St & Euclid Av	s	s	11.7	B	12.8	B			-	-	-	-	-	-	-	-	-	-	-					
U-67	Comstock Av & Stratford St	u	u	30.6	D	35.1	E			874	1076	864	1059	-1.14%	-1.58%	4.09	7.34	6.41	6.36	56.95%	-13.45%				
U-72	Teall Av & I-690	u	u	7.9	A	12.8	B			-	-	-	-	-	-	-	-	-	-	-					
0	Westside and Lakefront	0	0							-	-	-	-	-	-	-	-	-	-	-					
W-1	I-81 South On-Ramp/Genant Dr & Bear St	s	s	13.8	B	7.1	A			-	-	-	-	-	-	-	-	-	-	-					
W-2	Genant Dr & NY 298/W. Court St	u	u	2.4	A	2.7	A			-	-	-	-	-	-	-	-	-	-	-					
W-3	Genant Dr & Spencer St	u	u	8.0	A	9.3	A			-	-	-	-	-	-	-	-	-	-	-					
W-4	Solar St & Hiawatha Blvd W.	s	s	19.7	B	37.6	D			-	2920	-	2396	-	-17.95%	-	2.51	-	2.63	-	4.86%				
W-5	Spencer St & Hiawatha Blvd W.	s	s	24.0	C	37.2	D			-	3182	-	2663	-	-16.31%	-	1.96	-	2.01	-	2.51%				
W-6	I-690 East Off-Ramp & Hiawatha Blvd W.	s	s	14.8	B	25.5	C			-	-	-	-	-	-	-	-	-	-	-					
W-7	Solar St & Bear St	s	s	36.7	D	23.4	C			1402	-	1166	-	-16.83%	-	25.79	-	26.43	-	2.51%	-				
W-8	Van Rensselaer St & Bear St	s	s	6.1	A	9.5	A			-	-	-	-	-	-	-	-	-	-	-					
W-9	Spencer St & Bear St/I-690 Ramps	s	s	12.8	B	15.1	B			-	-	-	-	-	-	-	-	-	-	-					
W-10	N. Geddes St & Van Rensselaer St	u	u	6.8	A	9.4	A			-	-	-	-	-	-	-	-	-	-	-					
W-11	N. Geddes St & W. Kirkpatrick St	s	s	22.2	C	23.6	C			-	-	-	-	-	-	-	-	-	-	-					
W-12	N. Geddes St & I-690 West Off-Ramp	s	s	15.1	B	16.4	B			-	-	-	-	-	-	-	-	-	-	-					
W-13	N. Geddes St & Edison St	u	u	3.6	A	2.5	A			-	-	-	-	-	-	-	-	-	-	-					
W-14	N. Geddes St & W. Belden Av	s	s	18.8	B	22.0	C			-	-	-	-	-	-	-	-	-	-	-					
W-15	N. Geddes St & NY 5/W. Genesee St	s	s	28.0	C	86.7	F			-	2426	-	2455	-	1.20%	-	1.77	-	1.93	-	9.08%				
W-16	N. Geddes St & Park Av	s	s	15.2	B	39.1	D			-	1288	-	1224	-	-4.97%	-	3.85	-	2.37	-	-38.41%	2.37	8.65	3800	Pass
W-17	N. Geddes St & Wilkinson St	u	u	3.7	A	42.3	E			-	1224	-	1184	-	-3.27%	-	5.02	-	0.28	-	-94.38%	0.28	8.65	3800	Pass
W-18	N. Geddes St & Richmond Av	s	s	8.2	A	50.8	D			-	1410	-	1305	-	-7.45%	-	10.75	-	3.83	-	-64.36%	3.83	5.63	4000	Pass
W-19	N./S. Geddes St & Erie Blvd W.	s	s	48.1	D	137.9	F			2081	2043	2224	1755	6.87%	-14.10%	5.92	3.62	3.30	1.14	-44.22%	-68.39%	1.14	8.65	3800	Pass
W-20	S. Geddes St & W. Fayette St	s	s	43.6	D	128.3	F			2356	2793	2269	2100	-3.69%	-24.81%	5.98	10.02	4.81	1.97	-19.57%	-80.28%	1.97	8.65	3800	Pass
W-21	S. Geddes St & Marcellus St	u	u	26.2	D	74.0	F			1827	2007	1728	1419	-5.42%	-29.30%	6.37	24.81	4.48	1.19	-29.65%	-95.21%	1.19	8.65	3800	Pass
W-22	S. Geddes St & Otisco St	s	s	29.1	C	54.1	D			-	1992	-	1422	-	-28.61%	-	9.63	-	2.47	-	-74.31%	2.47	8.65	3800	Pass
W-23	S. Geddes St & Gifford St	s	s	30.4	C	46.2	D			-	2183	-	1627	-	-25.47%	-	16.51	-	3.79	-	-77.02%	3.79	5.63	4000	Pass
W-24	S. Geddes St & Seymour St	s	s	17.5	B	37.0	D			-	2510	-	1927	-	-23.23%	-	9.24	-	5.27	-	-43.01%	5.27	5.63	4000	Pass
W-25	S. Geddes St & Grand Av/Shonnard St	s	s	28.4	C	33.3	C			-	-	-	-	-	-	-	-	-	-	-					
W-26	S. Geddes St & Fitch St	u	u	1.1	A	1.6	A			-	-	-	-	-	-	-	-	-	-	-					
W-27	Van Rensselaer St & NY 5/W. Genesee St	s	s	17.4	B	13.4	B			-	-	-	-	-	-	-	-	-	-	-					
W-28	Leavenworth Av & NY 5/W. Genesee St	s	s	11.4	B	8.2	A			-	-	-	-	-	-	-	-	-	-	-					
W-29	Plum St & NY 5/W. Genesee St	s	s	8.6	A	5.9	A			-	-	-	-	-	-	-	-	-	-	-					
W-30	Plum St & Erie Blvd W.	s	s	6.7	A	4.5	A			-	-	-	-	-	-	-	-	-	-	-					
																	*minimum nonzero speed used for lookup			**Conservatively comparing intersection volumes to approach threshold					

D-63	Montgomery St & E. Jefferson St	s	s	12.0	B	4.5	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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[illegible]

U-50	Elizabeth Blackwell Dr & E. Adam St	u	u	4.3	A	1.9	A			-	-	-	-	-	-	-	-	-	-	-					
U-51	Irving Av & E. Adams St	s	s	22.1	C	20.0	B			-	-	-	-	-	-	-	-	-	-	-					
U-52	S. Crouse Av & E. Adams St	s	s	18.3	B	15.8	B			-	-	-	-	-	-	-	-	-	-	-					
U-53	University Av & E. Adams St	s	s	23.8	C	20.7	C			-	-	-	-	-	-	-	-	-	-	-					
U-54	Walnut Av & E. Adams St	s	s	10.4	B	7.6	A			-	-	-	-	-	-	-	-	-	-	-					
U-55	Comstock Av & E. Adams St	s	s	25.9	C	17.3	B			-	-	-	-	-	-	-	-	-	-	-					
U-56	Irving Av & Waverly Av	s	s	21.6	C	29.0	C			-	-	-	-	-	-	-	-	-	-	-					
U-57	S. Crouse Av & Waverly Av	s	s	14.3	B	10.4	B			-	-	-	-	-	-	-	-	-	-	-					
U-58	University Av & Waverly Av	s	s	26.5	C	35.2	D			-	791	-	783	-	-1.01%	-	2.19	-	2.10	-	-4.15%				
U-59	Walnut Pl & Waverly Av	s	s	17.1	B	40.6	D			-	643	-	649	-	0.93%	-	1.82	-	1.83	-	0.40%				
U-60	Walnut Av & Waverly Av	s	s	28.0	C	22.2	C			-	-	-	-	-	-	-	-	-	-	-					
U-61	Comstock Av & Waverly Av	s	s	29.3	C	32.3	C			-	-	-	-	-	-	-	-	-	-	-					
U-62	Irving Av & University Pl	s	s	21.1	C	23.0	C			-	-	-	-	-	-	-	-	-	-	-					
U-63	Irving Av & Van Buren St	s	s	21.5	C	16.2	B			-	-	-	-	-	-	-	-	-	-	-					
U-64	Comstock Av & University Pl	s	s	9.3	A	15.9	B			-	-	-	-	-	-	-	-	-	-	-					
U-65	Comstock Av & Euclid Av	s	s	20.9	C	54.2	D			-	-	-	-	-	-	-	-	-	-	-					
U-66	Westcott St & Euclid Av	s	s	11.7	B	12.5	B			-	-	-	-	-	-	-	-	-	-	-					
U-67	Comstock Av & Stratford St	u	u	44.5	E	59.7	F			884	1115	893	1087	1.02%	-2.51%	3.80	5.05	4.46	3.85	17.32%	-23.76%	3.85	5.63	4000	Pass
U-72	Teall Av & I-690	u	u	9.0	A	14.4	B			-	-	-	-	-	-	-	-	-	-	-					
	0 Westside and Lakefront									-	-	-	-	-	-	-	-	-	-	-					
W-1	I-81 South On-Ramp/Genant Dr & Bear St	s	s	14.7	B	7.5	A			-	-	-	-	-	-	-	-	-	-	-					
W-2	Genant Dr & NY 298/W. Court St	u	u	3.5	A	3.6	A			-	-	-	-	-	-	-	-	-	-	-					
W-3	Genant Dr & Spencer St	u	u	5.1	A	9.8	A			-	-	-	-	-	-	-	-	-	-	-					
W-4	Solar St & Hiawatha Blvd W.	s	s	20.4	C	38.8	D			-	3034	-	2533	-	-16.51%	-	2.15	-	2.46	-	14.42%				
W-5	Spencer St & Hiawatha Blvd W.	s	s	23.7	C	43.6	D			-	3257	-	2749	-	-15.60%	-	2.04	-	1.94	-	-4.56%				
W-6	I-690 East Off-Ramp & Hiawatha Blvd W.	s	s	15.1	B	26.2	C			-	-	-	-	-	-	-	-	-	-	-					
W-7	Solar St & Bear St	s	s	37.8	D	24.5	C			1515	-	1246	-	-17.76%	-	24.62	-	25.24	-	2.48%	-				
W-8	Van Rensselaer St & Bear St	s	s	6.1	A	9.5	A			-	-	-	-	-	-	-	-	-	-	-					
W-9	Spencer St & Bear St/I-690 Ramps	s	s	13.0	B	15.2	B			-	-	-	-	-	-	-	-	-	-	-					
W-10	N. Geddes St & Van Rensselaer St	u	u	6.7	A	10.1	B			-	-	-	-	-	-	-	-	-	-	-					
W-11	N. Geddes St & W. Kirkpatrick St	s	s	22.3	C	23.4	C			-	-	-	-	-	-	-	-	-	-	-					
W-12	N. Geddes St & I-690 West Off-Ramp	s	s	15.4	B	17.3	B			-	-	-	-	-	-	-	-	-	-	-					
W-13	N. Geddes St & Edison St	u	u	2.8	A	2.3	A			-	-	-	-	-	-	-	-	-	-	-					
W-14	N. Geddes St & W. Belden Av	s	s	18.0	B	21.4	C			-	-	-	-	-	-	-	-	-	-	-					
W-15	N. Geddes St & NY 5/W. Genesee St	s	s	27.9	C	86.0	F			-	2428	-	2419	-	-0.37%	-	1.84	-	2.02	-	9.78%				
W-16	N. Geddes St & Park Av	s	s	14.9	B	39.8	D			-	1280	-	1188	-	-7.19%	-	3.62	-	2.48	-	-31.46%	2.48	8.65	3800	Pass
W-17	N. Geddes St & Wilkinson St	u	u	3.5	A	50.1	F			-	1221	-	1142	-	-6.47%	-	3.60	-	0.26	-	-92.91%	0.26	8.65	3800	Pass
W-18	N. Geddes St & Richmond Av	s	s	8.0	A	53.8	D			-	1406	-	1255	-	-10.74%	-	9.68	-	3.78	-	-60.99%	3.78	5.63	4000	Pass
W-19	N./S. Geddes St & Erie Blvd W.	s	s	47.2	D	157.0	F			2093	2059	2139	1698	2.20%	-17.53%	5.84	3.51	2.99	1.09	-48.70%	-68.89%	1.09	8.65	3800	Pass
W-20	S. Geddes St & W. Fayette St	s	s	43.1	D	136.9	F			2356	2809	2154	2076	-8.57%	-26.09%	3.49	11.96	4.32	1.86	23.63%	-84.49%	1.86	8.65	3800	Pass
W-21	S. Geddes St & Marcellus St	u	u	25.6	D	87.0	F			1832	2034	1658	1337	-9.50%	-34.27%	16.38	15.11	4.10	0.82	-74.96%	-94.55%	0.82	8.65	3800	Pass
W-22	S. Geddes St & Otisco St	s	s	28.4	C	64.7	E			-	2017	-	1338	-	-33.66%	-	9.37	-	1.72	-	-81.63%	1.72	8.65	3800	Pass
W-23	S. Geddes St & Gifford St	s	s	29.0	C	65.6	E			-	2210	-	1560	-	-29.41%	-	15.36	-	3.11	-	-79.78%	3.11	5.63	4000	Pass
W-24	S. Geddes St & Seymour St	s	s	17.0	B	47.2	D			-	2550	-	1826	-	-28.39%	-	8.85	-	4.37	-	-50.66%	4.37	5.63	4000	Pass
W-25	S. Geddes St & Grand Av/Shonnard St	s	s	26.5	C	40.7	D			-	2250	-	1646	-	-26.84%	-	5.39	-	2.99	-	-44.56%	2.99	5.63	4000	Pass
W-26	S. Geddes St & Fitch St	u	u	1.2	A	1.5	A			-	-	-	-	-	-	-	-	-	-	-					
W-27	Van Rensselaer St & NY 5/W. Genesee St	s	s	17.4	B	13.7	B			-	-	-	-	-	-	-	-	-	-	-					
W-28	Leavenworth Av & NY 5/W. Genesee St	s	s	11.7	B	8.0	A			-	-	-	-	-	-	-	-	-	-	-					
W-29	Plum St & NY 5/W. Genesee St	s	s	8.7	A	6.0	A			-	-	-	-	-	-	-	-	-	-	-					
W-30	Plum St & Erie Blvd W.	s	s	7.1	A	4.5	A			-	-	-	-	-	-	-	-	-	-	-					
																	*minimum nonzero speed used for lookup				**Conservatively comparing intersection volumes to approach thresholds				

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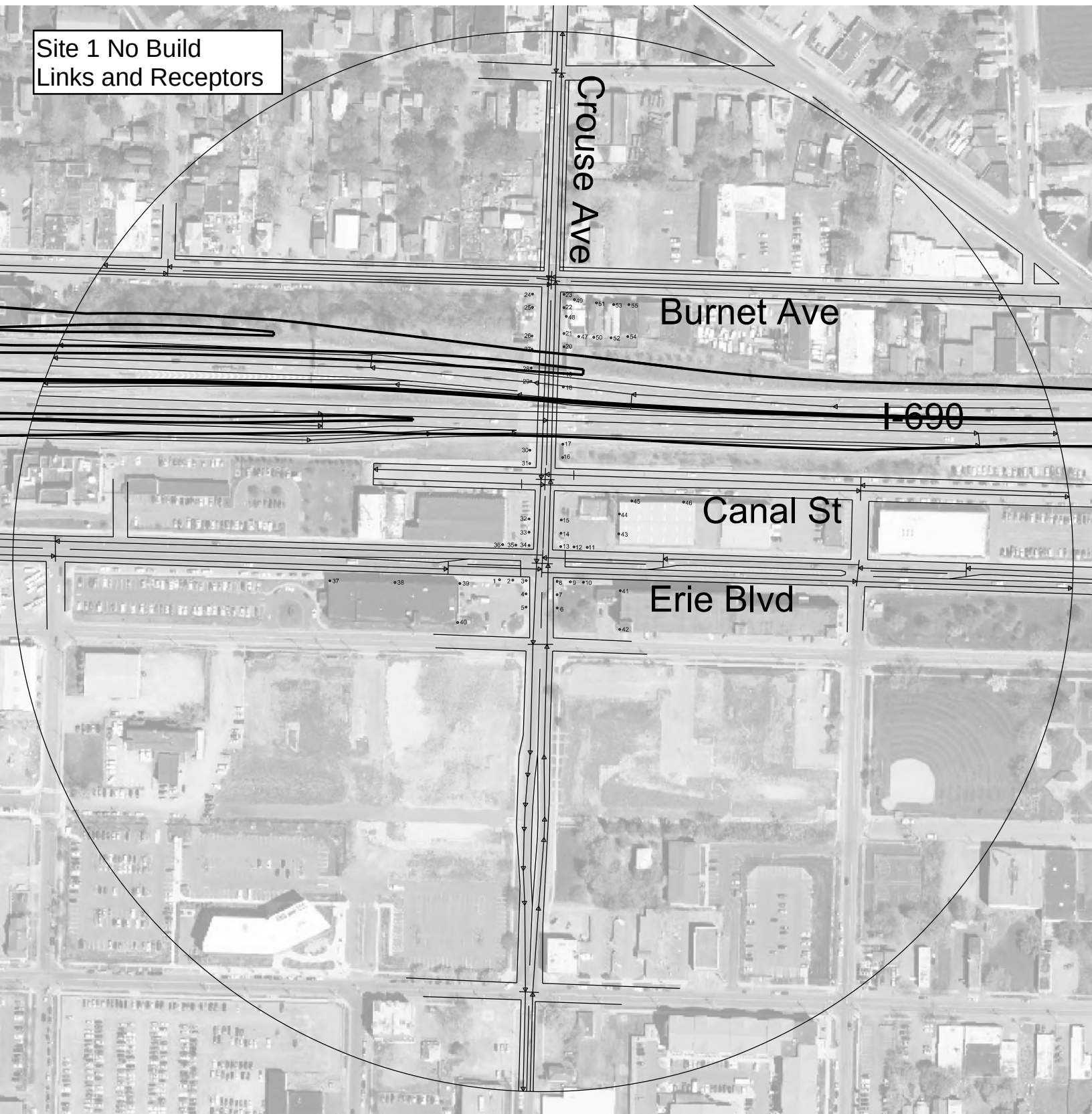
D-61	Montgomery St & E. Washington St	Overall	s	s	9.6	A	15.1	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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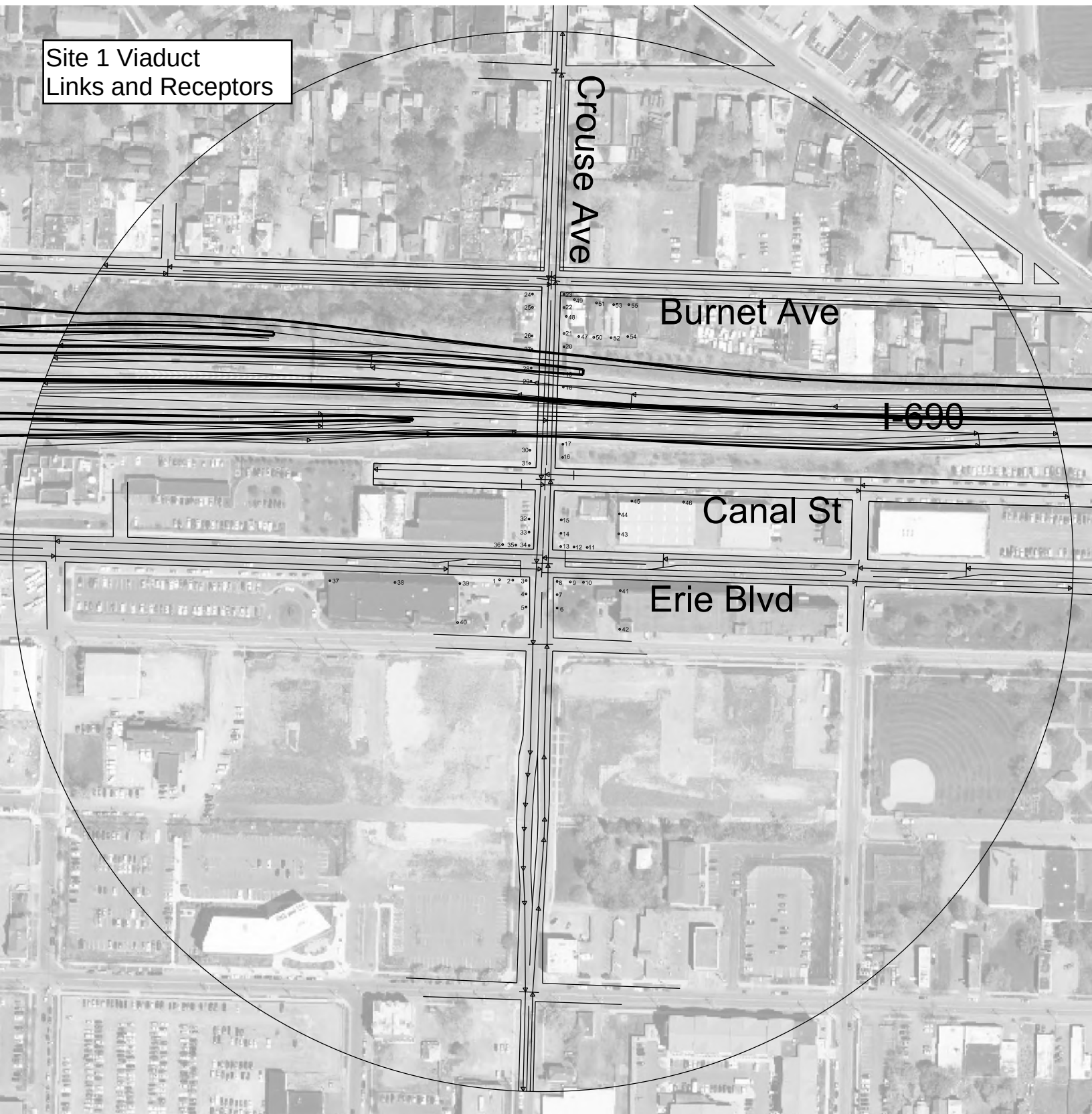
D-61	Montgomery St & E. Washington St	Overall	s	s	8.9	A	27.1	C		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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[illegible]

Site 1 No Build
Links and Receptors



Site 1 Viaduct
Links and Receptors



Site 1 Community Grid
Plan Overlay



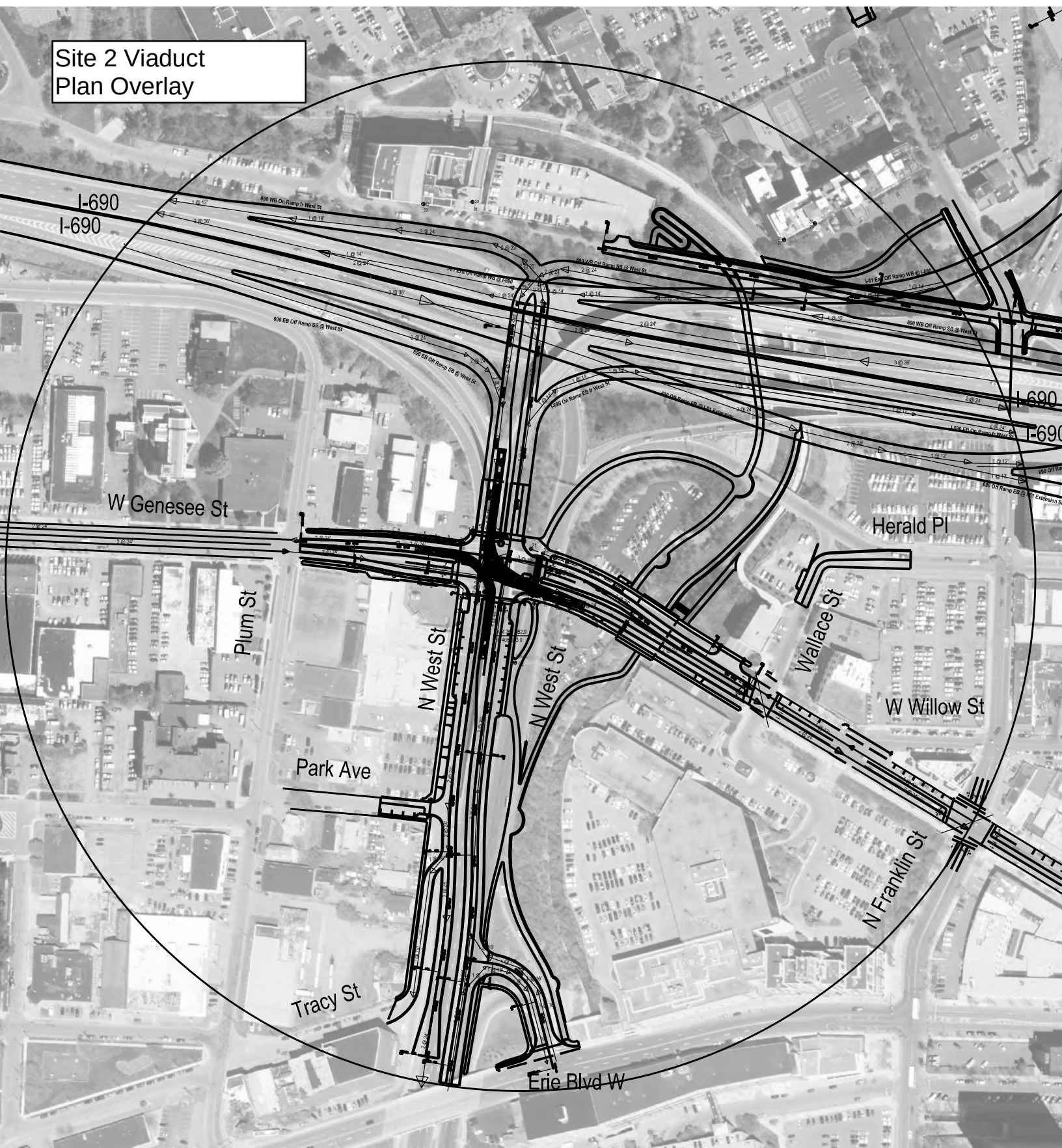
Site 1 Community Grid
Links and Receptors



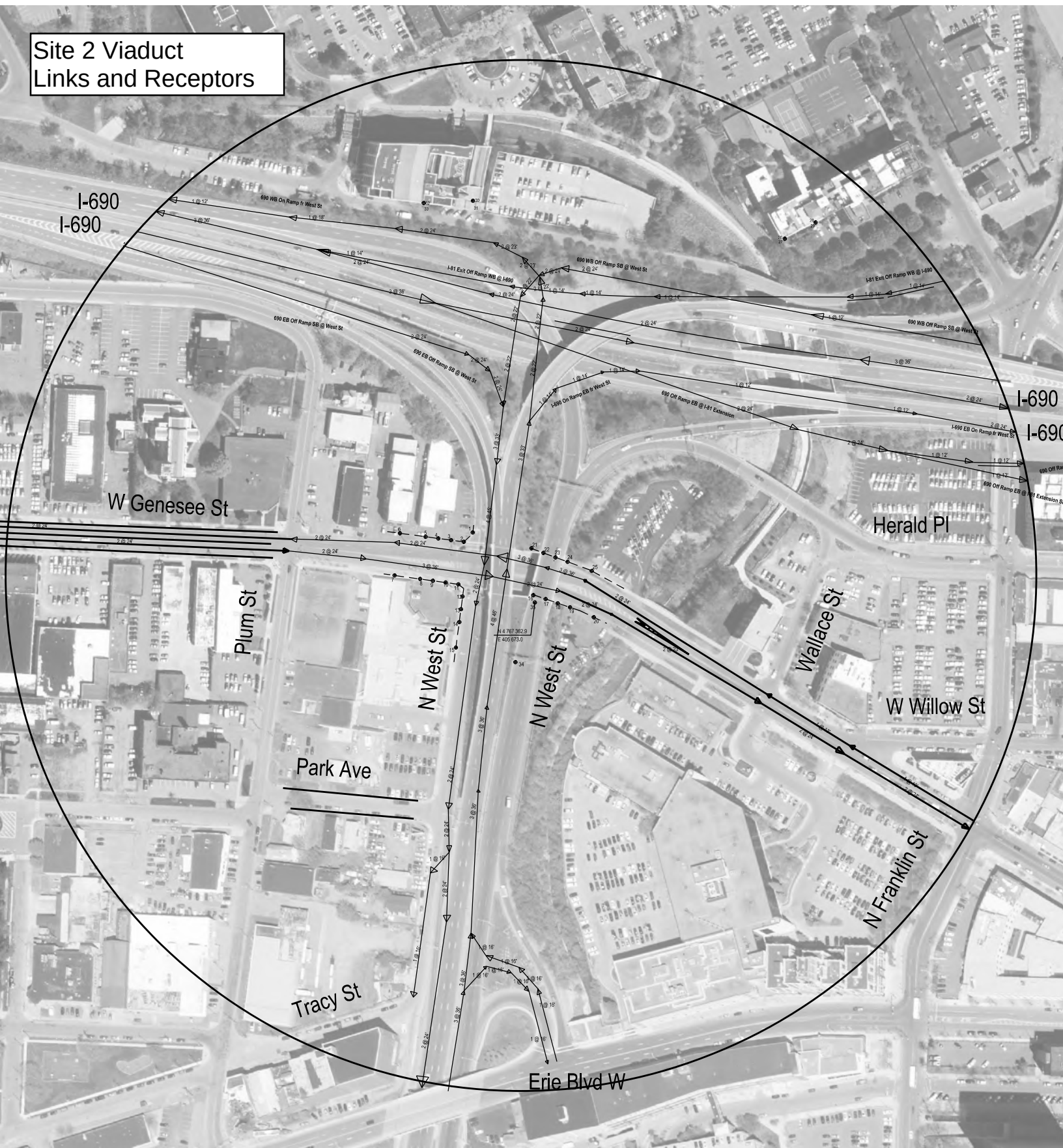
Site 2 No Build
Links and Receptors



Site 2 Viaduct
Plan Overlay



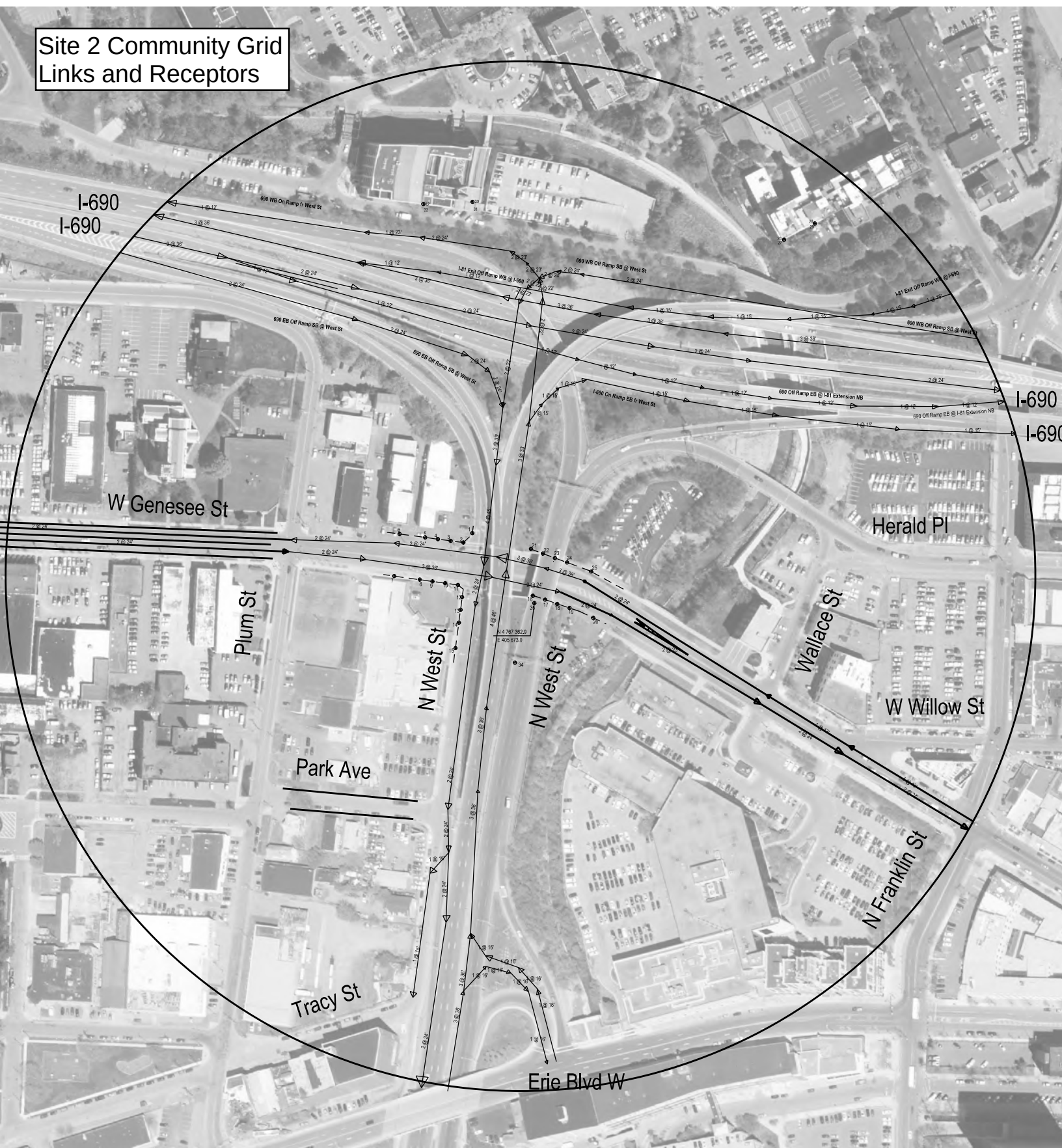
Site 2 Viaduct
Links and Receptors



Site 2 Community Grid Plan Overlay



Site 2 Community Grid
Links and Receptors



Site 3 No Build
Links and Receptors



Site 3 Community Grid
Plan Overlay



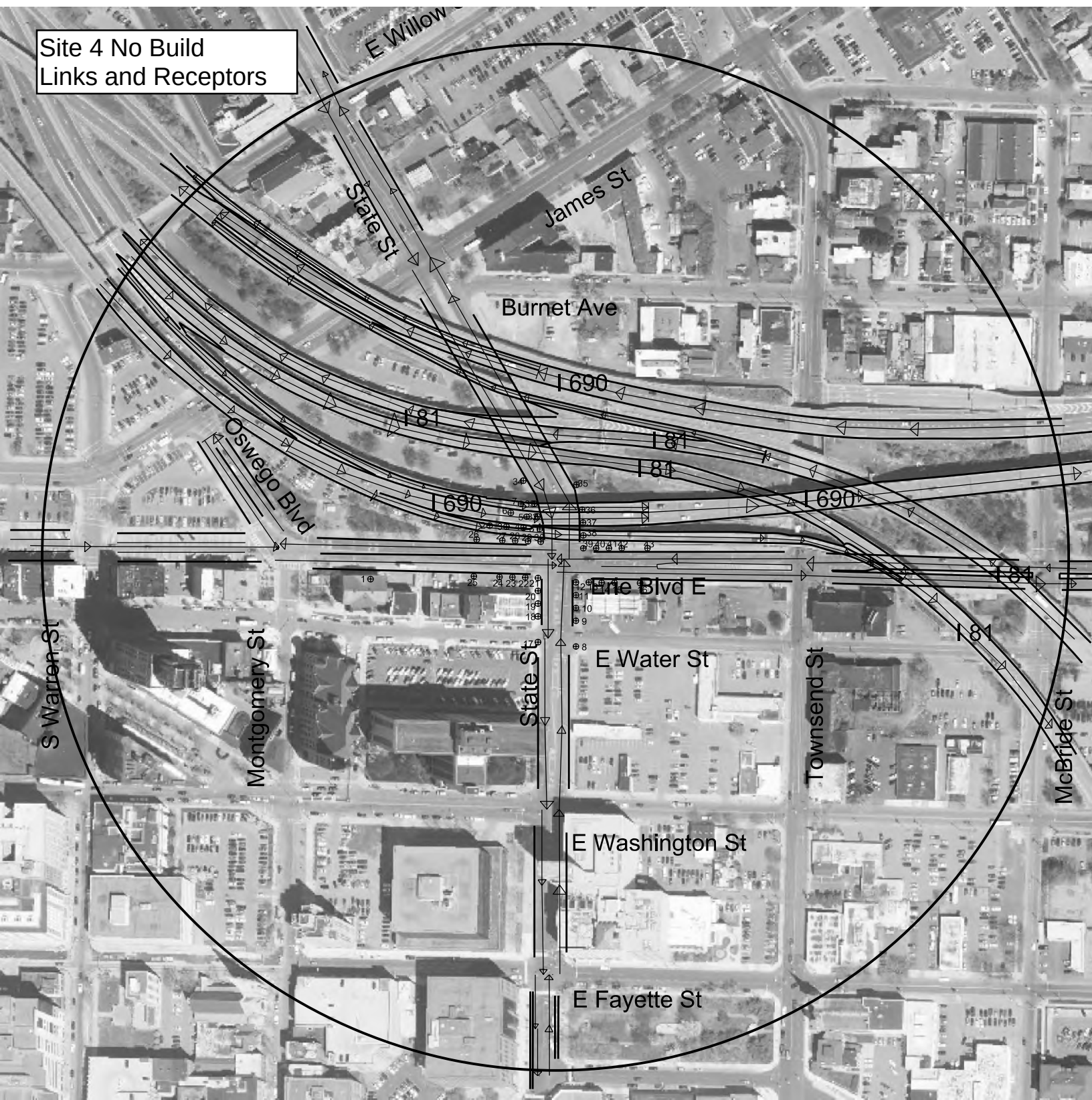
Site 3 Viaduct
Plan Overlay



Site 3 Viaduct
Links and Receptors



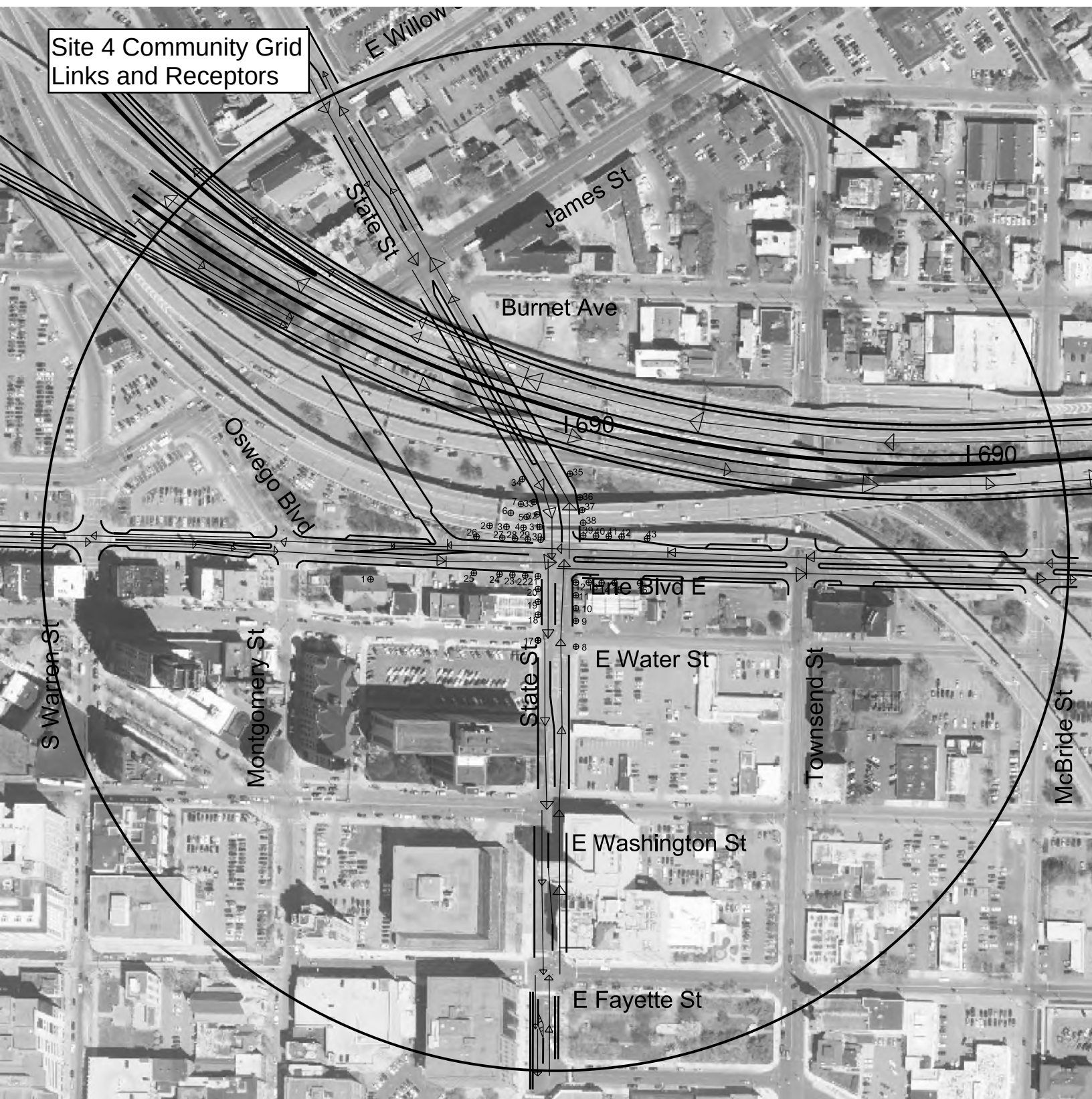
Site 4 No Build
Links and Receptors



Site 4 Community Grid
Plan Overlay



Site 4 Community Grid
Links and Receptors



Total	Emissions Reference	Emission Reference
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Note: Links with projected hourly volumes below 1 veh/hr use hourly volume of 1 veh/hr.

Site 3
No Build Alternative
Cal3QHC Link Information

Cal3QHC Link Number	Link Description	Link Coordinates (m)				Mixing Width	Traffic Volumes																								MOVES2014a Emissions Reference	Fugitive Dust Emission Reference	
		Head		Tail			Hour																										
		X (UTM)	Y (UTM)	X (UTM)	Y (UTM)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			Daily Total
1	S3-1:Almond S NB @ E Genese	6,972.3	6,681.4	6,970.4	6,575.1	15.6	57	34	32	16	30	79	227	376	437	492	426	403	394	378	414	443	465	366	313	244	193	139	116	99	6,173	301	3
2	S3-2:Almond S NB @ E Genese	6,972.3	6,681.4	6,970.4	6,575.1	15.6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24	302	3
3	S3-3:Almond S NB @ Cedar St	6,970.4	6,575.1	6,969.4	6,527.5	15.6	57	34	32	16	30	79	227	376	437	492	426	403	394	378	414	443	465	366	313	244	193	139	116	99	6,173	303	3
4	S3-4:Almond S NB @ Cedar St	6,969.4	6,527.5	6,970.1	6,489.0	13.8	57	34	32	16	30	79	227	376	437	492	426	403	394	378	414	443	465	366	313	244	193	139	116	99	6,173	303	4
5	S3-5:Almond S NB @ Madison	6,970.1	6,489.0	6,959.5	6,379.2	13.8	57	34	32	16	30	79	227	376	437	492	426	403	394	378	414	443	465	366	313	244	193	139	116	99	6,173	304	4
6	S3-6:Almond S NB @ Madison	6,968.4	6,405.4	6,959.5	6,379.2	13.8	57	34	32	16	30	79	227	376	437	492	426	403	394	378	414	443	465	366	313	244	193	139	116	99	6,173	304	4
7	S3-7:I-81 On NB fr Harrison	6,958.8	6,681.4	6,959.5	6,379.2	13.8	187	92	57	52	57	104	245	588	460	573	647	783	853	827	1168	1739	2159	1773	877	741	556	597	364	452	15,951	305	4
8	S3-8:Almond S NB @ Harrison	6,959.5	6,379.2	6,961.3	6,273.7	24.8	207	125	117	57	110	290	832	1377	1428	1805	1561	1478	1444	1384	1516	1625	1881	1343	1147	895	707	508	425	361	22,623	306	4
9	S3-9:Almond S NB @ Harrison	6,961.3	6,273.7	6,959.7	6,192.2	21.1	150	90	85	41	79	209	600	993	1428	1303	1126	1067	1042	999	1094	1172	960	969	828	646	510	367	307	261	16,326	306	4
10	S3-10:Monroe S NB @ E Adams	6,961.3	6,273.7	6,959.7	6,192.2	21.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24	307	1
11	S3-11:Almond S NB @ E Adams	6,959.7	6,192.2	6,959.0	6,129.1	16.3	114	69	65	31	60	159	457	756	989	992	857	812	793	760	833	892	828	738	630	492	389	279	234	199	12,428	308	3
12	S3-12:Almond S NB @ E Adams	6,959.0	6,129.1	6,958.4	6,072.0	11.4	114	69	65	31	60	159	457	756	989	992	857	812	793	760	833	892	828	738	630	492	389	279	234	199	12,428	308	3
13	S3-13:Van Bure NB @ E Adams	6,944.4	6,182.7	6,944.4	6,071.9	10.2	45	27	26	13	24	63	180	298	279	390	338	320	312	299	328	351	436	291	248	194	153	110	92	78	4,895	309	3
14	S3-14:Van Bure SB fr E Adams	6,939.6	6,072.1	6,939.2	6,149.6	13.8	70	50	34	31	30	56	154	287	440	253	245	258	255	279	308	380	247	408	295	240	196	170	135	93	4,914	310	3
15	S3-15:Van Bure SB fr E Adams	6,939.2	6,149.6	6,925.7	6,192.0	13.8	70	50	34	31	30	56	154	287	440	253	245	258	255	279	308	380	247	408	295	240	196	170	135	93	4,914	310	3
16	S3-16:Van Bure SB fr E Adams	6,925.7	6,192.0	6,926.4	6,235.0	10.2	122	86	58	54	51	98	268	499	507	440	427	448	444	486	536	661	691	710	513	417	341	296	234	162	8,549	310	3
17	S3-17:Van Bure SB fr E Adams	6,926.4	6,235.0	6,936.5	6,268.3	10.2	122	86	58	54	51	98	268	499	507	440	427	448	444	486	536	661	691	710	513	417	341	296	234	162	8,549	310	3
18	S3-18:Almond S SB fr E Adams	6,924.8	6,072.7	6,925.7	6,192.0	11.1	52	37	25	23	22	42	114	213	67	188	182	191	189	207	228	282	444	303	219	178	146	126	100	69	3,647	311	3
19	S3-19:Almond S SB @ E Adams	6,939.2	6,187.0	6,936.5	6,268.3	13.8	183	130	88	81	77	147	405	753	966	664	645	677	671	734	809	998	842	1073	775	630	515	447	354	245	12,909	312	4
20	S3-20:Almond S SB fr Harrison	6,936.5	6,268.3	6,938.7	6,368.8	13.8	253	180	121	112	106	203	558	1040	1406	916	890	934	925	1013	1116	1377	1089	1480	1069	869	711	617	488	338	17,811	313	4
21	S3-21:I-81 Off SB @ Harrison	6,859.7	6,369.4	6,895.3	6,387.0	12.6	25	12	10	13	39	137	450	585	624	384	313	253	285	292	294	262	172	210	249	146	83	73	113	52	5,076	314	2
22	S3-22:I-81 Off SB @ Harrison	6,895.3	6,387.0	6,909.7	6,402.9	12.6	25	12	10	13	39	137	450	585	624	384	313	253	285	292	294	262	172	210	249	146	83	73	113	52	5,076	314	2
23	S3-23:I-81 Off SB @ Harrison	6,909.7	6,402.9	6,918.3	6,414.2	12.6	25	12	10	13	39	137	450	585	624	384	313	253	285	292	294	262	172	210	249	146	83	73	113	52	5,076	314	3
24	S3-24:I-81 Off SB @ Harrison	6,918.3	6,414.2	6,924.1	6,428.7	12.6	25	12	10	13	39	137	450	585	624	384	313	253	285	292	294	262	172	210	249	146	83	73	113	52	5,076	314	3
25	S3-25:I-81 Off SB @ Harrison	6,924.1	6,428.7	6,924.0	6,451.8	12.6	25	12	10	13	39	137	450	585	624	384	313	253	285	292	294	262	172	210	249	146	83	73	113	52	5,076	314	4
26	S3-26:I-81 Off SB @ Harrison	6,924.0	6,451.8	6,924.9	6,558.6	12.6	25	12	10	13	39	137	450	585	624	384	313	253	285	292	294	262	172	210	249	146	83	73	113	52	5,076	314	4
27	S3-27:Almond S SB @ Harrison	6,938.7	6,368.8	6,940.8	6,537.1	17.5	237	169	113	105	100	191	524	976	1385	860	835	877	868	951	1048	1293	957	1389	1003	816	667	579	458	317	16,718	315	4
28	S3-28:I-81 Off SB @ Almond S	6,924.9	6,558.6	6,926.0	6,681.4	13.8	28	14	11	15	45	157	515	670	381	440	358	290	326	334	336	300	531	240	286	168	95	84	129	60	5,813	316	1
29	S3-29:I-81 Off SB @ I-81 Off	6,940.8	6,537.1	6,924.9	6,558.6	9.5	43	21	17	22	68	241	794	1032	983	678	552	446	502	515	518	462	422	370	440	258	146	129	199	92	8,950	317	3
30	S3-30:Almond S SB @ I-81 Off	6,940.8	6,537.1	6,942.0	6,681.4	13.8	95	68	46	42	40	77	210	391	402	344	335	351	348	381	419	518	535	556	402	327	267	232	183	127	6,696	318	3
31	S3-31:Harrison EB @ Irving A	7,251.8	6,351.5	7,215.6	6,351.5	10.2	5	3	3	2	3	12	39	65	68	38	39	31	41	37	46	84	100	96	25	18	14	10	9	11	799	319	3
32	S3-32:Harrison EB @ Elizabet	7,215.6	6,351.5	7,110.8	6,353.7	10.2	4	2	2	2	3	9	31	50	64	30	31	24	32	29	36	65	66	74	20	14	11	8	7	9	623	320	3
33	S3-33:Harrison EB @ Sarah Lo	7,110.8	6,353.7	6,970.2	6,355.1	10.2	3	2	2	1	2	8	25	41	54	24	25	20	26	24	29	53	52	61	16	12	9	6	6	7	508	321	3
34	S3-34:Harrison WB @ S State	6,643.7	6,367.6	6,717.5	6,366.9	20.5	121	52	48	37	40	81	241	514	914	504	528	588	640	606	751	985	566	895	623	515	366	270	165	255	10,305	322	3
35	S3-35:Harrison WB @ S Townse	6,717.5	6,366.9	6,957.8	6,375.4	20.5	148	64	58	45	49	99	295	629	1132	616	646	719	783	741	919	1205	679	1095	762	631	448	331	201	312	12,607	323	3
36	S3-36:Harrison WB @ S Townse	6,859.7	6,369.4	6,957.8	6,375.4	18.7	148	64	58	45	49	99	295	629	1132	616	646	719	783	741	919	1205	679	1095	762	631	448	331	201	312	12,607	323	3

	MOVES2014a	Fugitive Dust
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Note: Links with projected hourly volumes below 1 veh/hr use hourly volume of 1 veh/hr.

	MOVES2014a Emissions Reference	No Build Alternative							
		PM ₁₀ Emission Rate (g/mi)				PM _{2.5} Emission Rate (g/mi)			
		AM	MD	PM	ON	AM	MD	PM	ON
Site 3	318	0.2496327	0.2481595	0.1956581	0.0709019	0.0729622	0.0716589	0.0506453	0.0212432
	319	0.2243556	0.2229334	0.2552273	0.0747854	0.0679977	0.0667397	0.0688318	0.0238710
	320	0.0905736	0.0897451	0.0742673	0.0798060	0.0303705	0.0296376	0.0258078	0.0272954
	321	0.1919762	0.1906051	0.1310770	0.0882973	0.0580252	0.0568124	0.0450989	0.0330747
	322	0.1387329	0.1374327	0.1120511	0.0851960	0.0478495	0.0466993	0.0375000	0.0310503
	323	0.1756007	0.1742743	0.1686515	0.0861926	0.0606725	0.0594993	0.0553083	0.0317226
	324	0.1146314	0.1134467	0.1013736	0.0861372	0.0382950	0.0372469	0.0339609	0.0316982
	325	0.1193940	0.1181509	0.2558473	0.0714022	0.0404994	0.0393997	0.0647336	0.0216099
	326	0.0987497	0.0977424	0.1576175	0.0695484	0.0304720	0.0295808	0.0404904	0.0203176
	327	0.0953294	0.0944354	0.1248758	0.0696097	0.0290291	0.0282383	0.0333263	0.0203599
Site 4	328	0.1281395	0.1275018	0.0728773	0.0382871	0.0539695	0.0534054	0.0327747	0.0236866
	329	0.0691823	0.0682970	0.0724745	0.0386143	0.0365954	0.0358124	0.0330652	0.0239823
	401	0.0961678	0.0953301	0.0954542	0.0700781	0.0309547	0.0302136	0.0264728	0.0206523
	402	0.1849724	0.1836307	0.2148869	0.0822171	0.0649713	0.0637845	0.0679032	0.0290589
	403	0.4542756	0.4525550	0.4384744	0.0701580	0.1297061	0.1281848	0.1066392	0.0207153
	404	0.4542756	0.4525550	0.4384744	0.0701580	0.1297061	0.1281848	0.1066392	0.0207153
	405	0.6233595	0.6209144	0.3502477	0.0692310	0.1873355	0.1851725	0.0817278	0.0200838
	406	0.4907013	0.4887975	0.2831108	0.0695277	0.1444361	0.1427522	0.0672405	0.0202885
	407	0.1198078	0.1188347	0.1058525	0.0855522	0.0455768	0.0447159	0.0351183	0.0313770
	408	0.1458785	0.1445627	0.3205953	0.0831556	0.0548343	0.0536703	0.0989227	0.0297167
	409	0.2689757	0.2675298	0.3901243	0.0825802	0.1013361	0.1000571	0.1205488	0.0293125
	410	0.1902182	0.1888822	0.3723043	0.1036612	0.0829474	0.0817657	0.1411650	0.0439328
	411	0.1498657	0.1486895	0.1156579	0.0899451	0.0632240	0.0621835	0.0401198	0.0344409
	412	0.1697552	0.1685985	0.1100175	0.0870897	0.0803769	0.0793537	0.0372616	0.0324729
	413	0.2202321	0.2188025	0.2227739	0.0670530	0.0626891	0.0614244	0.0506644	0.0185976
	414	0.3048028	0.3032618	0.7766039	0.0714347	0.0826160	0.0812528	0.1970865	0.0215765
	415	0.2807002	0.2791932	0.1879115	0.0715261	0.0774691	0.0761360	0.0491649	0.0216337
	416	0.2883933	0.2868674	0.3959700	0.0764331	0.0817999	0.0804501	0.1106875	0.0250322
	417	0.4009327	0.3992623	0.4702150	0.0748451	0.1267827	0.1253051	0.1297249	0.0239077
	418	0.0928698	0.0920410	0.0834288	0.0704966	0.0283381	0.0276049	0.0226068	0.0209332
	419	0.1284723	0.1271615	0.3963218	0.0704096	0.0394669	0.0383073	0.0951823	0.0208776
	420	0.2086512	0.2072527	0.2200878	0.0701978	0.0614003	0.0601630	0.0544620	0.0207298
	421	0.3633102	0.3616896	0.2545714	0.0695618	0.1044208	0.1029869	0.0609419	0.0202973
	422	0.5910748	0.5887290	0.1814798	0.0687978	0.1722668	0.1701911	0.0445540	0.0197667
	423	0.1217653	0.1204485	0.6425512	0.0698330	0.0355080	0.0343431	0.1553733	0.0204881
	424	0.1953302	0.1939484	0.1647038	0.0695068	0.0587716	0.0575492	0.0416383	0.0202626
	425	0.2389861	0.2375371	0.3586772	0.0707013	0.0700974	0.0688155	0.0871075	0.0210821
	426	0.0884276	0.0876128	0.0903522	0.0704496	0.0267264	0.0260056	0.0246013	0.0209059
	427	0.1969682	0.1955655	0.1608721	0.0699101	0.0573062	0.0560653	0.0412581	0.0205410
	428	0.0745519	0.0737357	0.0706201	0.0349624	0.0324241	0.0317020	0.0295823	0.0210945
	429	0.0893089	0.0885137	0.0950597	0.0384770	0.0417776	0.0410742	0.0396396	0.0239063
	430	0.1491543	0.1485594	0.1061210	0.0349487	0.0505868	0.0500606	0.0377217	0.0210837
	431	0.1786326	0.1780325	0.1834769	0.0385800	0.0669617	0.0664310	0.0623502	0.0239934
	432	0.0820155	0.0811882	0.0803595	0.0385589	0.0399941	0.0392623	0.0349505	0.0239752
	433	0.0822331	0.0814108	0.0806618	0.0385800	0.0397936	0.0390661	0.0347731	0.0239188
	434	0.0895760	0.0887847	0.0955257	0.0384996	0.0415383	0.0408383	0.0396044	0.0238524
	435	0.0895036	0.0887238	0.0834320	0.0351512	0.0368127	0.0361228	0.0336957	0.0212499
	436	0.0797759	0.0789285	0.0805844	0.0383055	0.0405098	0.0397601	0.0347393	0.0237395
	437	0.0798978	0.0790552	0.0808614	0.0382941	0.0403477	0.0396023	0.0345812	0.0236910
	438	0.1394021	0.1387982	0.2425348	0.0382633	0.0572873	0.0567531	0.0829618	0.0236992
	439	0.1037789	0.1029865	0.1071646	0.0382071	0.0486454	0.0479443	0.0417813	0.0236570
	440	0.1078303	0.1070868	0.0940582	0.0350056	0.0468886	0.0462310	0.0353225	0.0210636
	441	0.0601757	0.0592716	0.0924884	0.0350372	0.0332905	0.0324907	0.0350421	0.0210902
	442	0.0757260	0.0748756	0.0940803	0.0349708	0.0375013	0.0367491	0.0353032	0.0210443
	443	0.0531154	0.0522202	0.0428670	0.0382834	0.0321882	0.0313964	0.0247036	0.0236950

	MOVES2014a Emissions Reference	Community Grid Alternative							
		PM ₁₀ Emission Rate (g/mi)				PM _{2.5} Emission Rate (g/mi)			
		AM	MD	PM	ON	AM	MD	PM	ON
Site 1	101	0.5570866	0.5548513	0.4316827	0.0703587	0.1596625	0.1576844	0.1072781	0.0208923
	102	0.5570866	0.5548513	0.4316827	0.0703587	0.1596625	0.1576844	0.1072781	0.0208923
	103	0.5570866	0.5548513	0.4316827	0.0703587	0.1596625	0.1576844	0.1072781	0.0208923
	104	0.4029935	0.4012728	0.3111346	0.0670190	0.0975549	0.0960327	0.0684596	0.0186021
	105	0.1040497	0.1027300	0.1231292	0.0667590	0.0292884	0.0281210	0.0308986	0.0184246
	106	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	107	0.0930847	0.0921786	0.0907895	0.0672926	0.0275964	0.0267949	0.0237665	0.0187920
	108	0.0723125	0.0714697	0.0871420	0.0673685	0.0240280	0.0232825	0.0223370	0.0188431
	109	0.1358232	0.1344944	0.1057842	0.0672961	0.0401668	0.0389913	0.0277031	0.0187899
	110	0.3732136	0.3715528	0.3940331	0.0671485	0.1046921	0.1032229	0.0861287	0.0186829
	111	0.1522245	0.1508361	0.2028186	0.0637131	0.0338462	0.0326180	0.0418906	0.0163276
	112	0.1522245	0.1508361	0.2028186	0.0637131	0.0338462	0.0326180	0.0418906	0.0163276
	113	0.1201157	0.1188084	0.1152015	0.0749094	0.0383447	0.0371882	0.0342763	0.0239674
	114	0.0775566	0.0767238	0.0849913	0.0753845	0.0274912	0.0267545	0.0254769	0.0242792
	115	0.2165798	0.2151807	0.1546967	0.0767627	0.0664161	0.0651784	0.0453309	0.0252313
	116	0.0808807	0.0800630	0.0846500	0.0744067	0.0254250	0.0247017	0.0248986	0.0236144
	117	0.0808807	0.0800630	0.0846500	0.0744067	0.0254250	0.0247017	0.0248986	0.0236144
	118	0.0813336	0.0805336	0.0947878	0.0730270	0.0246337	0.0239259	0.0269924	0.0226824
	119	0.0813336	0.0805336	0.0947878	0.0730270	0.0246337	0.0239259	0.0269924	0.0226824
	120	0.0813336	0.0805336	0.0947878	0.0730270	0.0246337	0.0239259	0.0269924	0.0226824
	121	0.0754859	0.0746744	0.0751521	0.0706785	0.0242787	0.0235609	0.0213375	0.0210627
	122	0.0754859	0.0746744	0.0751521	0.0706785	0.0242787	0.0235609	0.0213375	0.0210627
	123	0.1452758	0.1439132	0.0828161	0.0683084	0.0365692	0.0353638	0.0213678	0.0194331
	124	0.2487993	0.2473392	0.2386221	0.0771777	0.0731975	0.0719059	0.0679412	0.0255206
	125	0.0808661	0.0800370	0.0834313	0.0770840	0.0272436	0.0265102	0.0260758	0.0254536
	126	0.0933940	0.0924417	0.1110086	0.0746864	0.0266052	0.0257629	0.0331031	0.0238184
	127	0.0726090	0.0718021	0.0809392	0.0739848	0.0224374	0.0217236	0.0240503	0.0233390
	128	0.0646167	0.0637167	0.0726710	0.1013196	0.0307900	0.0299937	0.0341198	0.0422931
	129	0.0646142	0.0637162	0.0726742	0.1013612	0.0306743	0.0298798	0.0339806	0.0421782
	130	0.0646183	0.0637180	0.0726746	0.1013301	0.0307959	0.0299994	0.0341273	0.0423048
	131	0.0646144	0.0637164	0.0726744	0.1013612	0.0306746	0.0298801	0.0339809	0.0421782
	132	0.1757743	0.1744781	0.3516829	0.1013195	0.0719568	0.0708100	0.1304144	0.0422929
	133	0.2169835	0.2163056	0.3882279	0.0441163	0.0926209	0.0920213	0.1469059	0.0289050
	134	0.2172942	0.2166232	0.3897513	0.0439796	0.0919535	0.0913598	0.1462938	0.0286668
	135	0.2171843	0.2165115	0.3896019	0.0440597	0.0923177	0.0917225	0.1467937	0.0287682
	136	0.1338830	0.1331274	0.1562778	0.0252509	0.0312930	0.0306247	0.0377475	0.0131663
	137	0.1169014	0.1163224	0.1107730	0.0255151	0.0270929	0.0265806	0.0260549	0.0133854
	138	0.2095711	0.2084639	0.1320374	0.0242141	0.0594984	0.0585191	0.0295258	0.0123018
	139	0.3559368	0.3543283	0.3836354	0.0230943	0.0692266	0.0678037	0.0782041	0.0113819
	140	0.0670246	0.0660987	0.0760368	0.0440498	0.0339208	0.0331017	0.0381794	0.0287459
	141	0.0669671	0.0660364	0.0759398	0.0440609	0.0340278	0.0332045	0.0383323	0.0287972
	142	0.2172805	0.2166081	0.3892451	0.0440455	0.0921192	0.0915245	0.1462591	0.0287380
	143	0.2171902	0.2165172	0.3897132	0.0440594	0.0923829	0.0917876	0.1469676	0.0287975
	144	0.2172491	0.2165767	0.3892381	0.0440483	0.0921214	0.0915266	0.1462581	0.0287429
	145	0.0000000	0.0000000	0.0000000	0.0615027	0.0000000	0.0000000	0.0000000	0.0000000
	146	0.0000000	0.0000000	0.0000000	0.0615027	0.0000000	0.0000000	0.0000000	0.0000000
	147	0.0000000	0.0000000	0.0000000	0.0615027	0.0000000	0.0000000	0.0000000	0.0000000
	148	0.0000000	0.0000000	0.0000000	0.0615027	0.0000000	0.0000000	0.0000000	0.0000000
	149	0.0000000	0.0000000	0.0000000	0.0227798	0.0000000	0.0000000	0.0000000	0.0000000
	150	0.0000000	0.0000000	0.0000000	0.0227798	0.0000000	0.0000000	0.0000000	0.0000000
	151	0.0000000	0.0000000	0.0000000	0.0227798	0.0000000	0.0000000	0.0000000	0.0000000
	152	0.0000000	0.0000000	0.0000000	0.0227798	0.0000000	0.0000000	0.0000000	0.0000000
	153	0.0000000	0.0000000	0.0000000	0.0227798	0.0000000	0.0000000	0.0000000	0.0000000
	154	0.0000000	0.0000000	0.0000000	0.0227798	0.0000000	0.0000000	0.0000000	0.0000000
Site 2	201	0.0670304	0.0661650	0.0669994	0.0350491	0.0308998	0.0301341	0.0289432	0.0211849
	202	0.3932894	0.3917652	0.2048096	0.0263731	0.1183587	0.1170103	0.0525735	0.0141193
	203	0.2939958	0.2924653	0.2873190	0.0717396	0.0852551	0.0839012	0.0722213	0.0218561
	204	0.3005308	0.2989795	0.2622037	0.0705048	0.0791022	0.0777298	0.0643578	0.0210022
	205	0.0711537	0.0702863	0.0649045	0.0735710	0.0270730	0.0263056	0.0210803	0.0231738
	206	0.0735352	0.0714911	0.0642882	0.0720583	0.0401648	0.0383565	0.0308896	0.0331981
	207	0.1117599	0.1114733	0.1031437	0.0728412	0.0221091	0.0218555	0.0185503	0.0131683
	208	0.0959268	0.0923017	0.0745747	0.0598097	0.0655770	0.0623702	0.0471874	0.0477133
	209	0.0950496	0.0946116	0.0858242	0.0972005	0.0238604	0.0234730	0.0189027	0.0210656
	210	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	211	0.0742841	0.0734178	0.0643516	0.0736178	0.0278478	0.0270814	0.0209339	0.0231597
	212	0.0743854	0.0735190	0.0644250	0.0736178	0.0278746	0.0271082	0.0209492	0.0231597
	213	0.0743755	0.0735105	0.0644155	0.0736279	0.0278233	0.0270581	0.0209171	0.0231311
	214	0.3889585	0.3873122	0.4988434	0.0816411	0.1190017	0.1175453	0.1591919	0.0283788
	215	0.3886728	0.3870238	0.4985302	0.0814300	0.1190440	0.1175854	0.1591952	0.0284183
	216	0.4055156	0.4040295	0.1697131	0.0273025	0.1274538	0.1261391	0.0442470	0.0146602
	217	0.7626219	0.7613975	0.2421980	0.0561657	0.1484444	0.1473613	0.0460855	0.0126760
	218	0.2524905	0.2510222	0.1879752	0.0727285	0.0736551	0.0723562	0.0508130	0.0224730
	219	0.2524905	0.2510222	0.1879752	0.0727285	0.0736551	0.0723562	0.0508130	0.0224730
	220	0.2428820	0.2414264	0.1995268	0.0731336	0.0708383	0.0695506	0.0538599	0.0227495
	221	0.2428820	0.2414264	0.1995268	0.0731336	0.0708383	0.0695506	0.0538599	0.0227495
	222	0.1833289	0.1819209	0.2592201	0.0684705	0.0455714	0.0443258	0.0601173	0.0195475
	223	0.1833289	0.1819209	0.2592201	0.0684705	0.0455714	0.0443258	0.0601173	0.0195475
	224	0.1833289	0.1819209	0.2592201	0.0684705	0.0455714	0.0443258	0.0601173	0.0195475
	225	0.3270891	0.3255220	0.2960433	0.0738759	0.0887548	0.0873685	0.0774018	0.0232292
	226	0.3270891	0.3255220	0.2960433	0.0738759	0.0887548	0.0873685	0.0774018	0.0232292
	227	0.3270891	0.3255220	0.2960433	0.0738759	0.0887548	0.0873685	0.0774018	0.0232292
	228	0.3270891	0.3255220	0.2960433	0.0738759	0.0887548	0.0873685	0.0774018	0.0232292
	229	0.3270891	0.3255220	0.2960433	0.0738759	0.0887548	0.0873685	0.0774018	0.0232292
	230	0.2342104	0.2327612	0.1577126	0.0746931	0.0639367	0.0626546	0.0445065	0.0237962
	231	0.2342104	0.2327612	0.1577126	0.0746931	0.0639367	0.0626546	0.0445065	0.0237962
	232	0.0539752	0.0530762	0.0428355	0.0376908	0.0311699	0.0303746	0.0244427	0.0233443
	233	0.0456395	0.0447299	0.0432812	0.0376788	0.0252553	0.0244507	0.0245653	0.0233305
	234	0.0479649	0.0470640	0.0489489	0.0377041	0.0292081	0.0284112	0.0264046	0.0233967
	235	0.0367369	0.0358176	0.0317136	0.0281294	0.0208551	0.0200418	0.0157869	0.0155915
	236	0.0367435	0.0358255	0.0317276	0.0281256	0.0208428	0.0200306	0.0157778	0.0155788
	237	0.1145631	0.1138746	0.0966266	0.0350646	0.0487064	0.0480974	0.0360529	0.0212021

	MOVES2014a Emissions Reference	Community Grid Alternative							
		PM ₁₀ Emission Rate (g/mi)				PM _{2.5} Emission Rate (g/mi)			
		AM	MD	PM	ON	AM	MD	PM	ON
Site 3	304	0.1137634	0.1125446	0.1137883	0.0759968	0.0370839	0.0360056	0.0343979	0.0247143
	305	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	306	0.1383546	0.1370466	0.1448744	0.0793448	0.0442488	0.0430918	0.0444042	0.0270044
	307	0.0969756	0.0961420	0.0934059	0.0832935	0.0324139	0.0316765	0.0310803	0.0296998
	308	0.0969756	0.0961420	0.0934059	0.0832935	0.0324139	0.0316765	0.0310803	0.0296998
	309	0.0969756	0.0961420	0.0934059	0.0832935	0.0324139	0.0316765	0.0310803	0.0296998
	310	0.1061234	0.1049227	0.1070452	0.0707272	0.0324020	0.0313399	0.0302944	0.0211009
	311	0.1061234	0.1049227	0.1070452	0.0707272	0.0324020	0.0313399	0.0302944	0.0211009
	312	0.1061234	0.1049227	0.1070452	0.0707272	0.0324020	0.0313399	0.0302944	0.0211009
	313	0.1061234	0.1049227	0.1070452	0.0707272	0.0324020	0.0313399	0.0302944	0.0211009
	314	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	315	0.0988023	0.0977681	0.0920138	0.0710954	0.0299716	0.0290568	0.0253830	0.0213487
	316	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	317	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	318	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	319	0.1047614	0.1035496	0.1352186	0.0682783	0.0314083	0.0303362	0.0344869	0.0194374
	320	0.0921908	0.0913016	0.0896190	0.0683922	0.0267832	0.0259965	0.0238850	0.0195150
	321	0.1590354	0.1576822	0.1518011	0.0706113	0.0462845	0.0450875	0.0399330	0.0210229
	322	0.0999699	0.0989531	0.0977500	0.0756156	0.0312823	0.0303828	0.0288476	0.0245020
	323	0.1723143	0.1709454	0.1640850	0.0752863	0.0509361	0.0497250	0.0471602	0.0242653
	324	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	325	0.1128119	0.1115002	0.1319807	0.0732028	0.0353927	0.0342322	0.0368431	0.0228340
	326	0.0948492	0.0939290	0.0996040	0.0773300	0.0283867	0.0275726	0.0301257	0.0256579
	327	0.0864615	0.0856303	0.0886713	0.0775512	0.0265428	0.0258075	0.0272147	0.0258083
	328	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	329	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	330	0.1292640	0.1279442	0.1313532	0.0702270	0.0383544	0.0371869	0.0351833	0.0207537
	331	0.1211376	0.1198185	0.1215893	0.0693734	0.0349783	0.0338113	0.0323923	0.0201677
Site 4	401	0.0871457	0.0862861	0.0800315	0.0727280	0.0304969	0.0297364	0.0232384	0.0224663
	402	0.2194312	0.2180833	0.2374432	0.0929470	0.0856781	0.0844856	0.0849995	0.0364642
	403	0.2182540	0.2168252	0.3431719	0.0733094	0.0606651	0.0594012	0.0887487	0.0228613
	404	0.2182540	0.2168252	0.3431719	0.0733094	0.0606651	0.0594012	0.0887487	0.0228613
	405	0.2160961	0.2146695	0.3838765	0.0708258	0.0596489	0.0583869	0.0932510	0.0211581
	406	0.2745525	0.2730527	0.2538136	0.0702533	0.0745139	0.0731870	0.0618403	0.0207673
	407	0.1093481	0.1083099	0.1717602	0.0806663	0.0375073	0.0365889	0.0534501	0.0279834
	408	0.1118096	0.1108353	0.1988387	0.0792189	0.0396760	0.0388143	0.0605361	0.0269842
	409	0.1531993	0.1518779	0.1446023	0.0786798	0.0498306	0.0486617	0.0439453	0.0266213
	410	0.2540602	0.2525959	0.2857628	0.0820718	0.0849694	0.0836740	0.0880081	0.0289849
	411	0.1905883	0.1892143	0.1200983	0.0781166	0.0609877	0.0597723	0.0363904	0.0262436
	412	0.1531519	0.1518205	0.1123838	0.0760601	0.0493551	0.0481774	0.0337644	0.0248297
	413	0.4998915	0.4979106	0.2033767	0.0691394	0.1437549	0.1420025	0.0499166	0.0200332
	414	0.2000279	0.1986148	0.6911564	0.0721546	0.0567431	0.0554931	0.1804865	0.0220819
	415	0.3126838	0.3111155	0.3675877	0.0700387	0.0838305	0.0824432	0.0876418	0.0206314
	416	0.2850306	0.2835099	0.4210396	0.0728154	0.0827284	0.0813831	0.1091956	0.0225574
	417	0.3462314	0.3446188	0.4536629	0.0693328	0.0962382	0.0948117	0.1072371	0.0201446
	418	0.1035535	0.1025615	0.0951176	0.0738159	0.0328185	0.0319409	0.0277740	0.0231978
	419	0.2116371	0.2102309	0.1650516	0.0738801	0.0645157	0.0632718	0.0456193	0.0232378
	420	0.1843277	0.1829658	0.1226237	0.0762305	0.0571839	0.0559791	0.0368041	0.0248470
	421	0.5357726	0.5337893	0.7338282	0.0826076	0.1738958	0.1721407	0.2423229	0.0292117
	422	0.1618635	0.1604960	0.2197151	0.0707546	0.0436204	0.0424107	0.0548759	0.0210932
	423	0.2994134	0.2978723	0.2992886	0.0715820	0.0759055	0.0745423	0.0743914	0.0216649
	424	0.2346760	0.2332371	0.2552159	0.0712734	0.0663369	0.0650641	0.0638492	0.0214751
	425	0.4395443	0.4378140	0.3049328	0.0726598	0.1247022	0.1231716	0.0777243	0.0224163
	426	0.1026215	0.1015748	0.0865939	0.0752809	0.0323570	0.0314311	0.0256847	0.0242198
	427	0.3173416	0.3157810	0.2489565	0.0775268	0.0902690	0.0888885	0.0710409	0.0257632
	428	0.2864950	0.2852086	0.3023141	0.0269582	0.0775234	0.0763854	0.0787171	0.0145437
	429	0.2864950	0.2852086	0.3023141	0.0269582	0.0775234	0.0763854	0.0787171	0.0145437
	430	0.2864950	0.2852086	0.3023141	0.0269582	0.0775234	0.0763854	0.0787171	0.0145437
	431	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	432	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	433	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	434	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	435	0.2864950	0.2852086	0.3023141	0.0269582	0.0775234	0.0763854	0.0787171	0.0145437
	436	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	437	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	438	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	439	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	440	0.3699775	0.3684688	0.2167893	0.0275131	0.0992347	0.0979002	0.0579561	0.0149540
	441	0.3699775	0.3684688	0.2167893	0.0275131	0.0992347	0.0979002	0.0579561	0.0149540
	442	0.0748125	0.0740004	0.0708996	0.0349848	0.0322616	0.0315431	0.0294526	0.0210455
	443	0.0748125	0.0740004	0.0708996	0.0349848	0.0322616	0.0315431	0.0294526	0.0210455
	444	0.0751150	0.0743065	0.0711991	0.0349478	0.0322557	0.0315404	0.0294504	0.0210042
	445	0.1074119	0.1067697	0.0844753	0.0349395	0.0398667	0.0392986	0.0335025	0.0209986
	446	0.1032266	0.1024558	0.2123905	0.0350177	0.0461601	0.0454782	0.0688177	0.0211467
	447	0.1004088	0.0996174	0.1444533	0.0350127	0.0455295	0.0448295	0.0469739	0.0210964
	448	0.1004088	0.0996174	0.1444533	0.0350127	0.0455295	0.0448295	0.0469739	0.0210964
	449	0.0392451	0.0383257	0.0334419	0.0281003	0.0215320	0.0207187	0.0161424	0.0155608

	MOVES2014a Emissions Reference	Viaduct Alternative							
		PM ₁₀ Emission Rate (g/mi)				PM _{2.5} Emission Rate (g/mi)			
		AM	MD	PM	ON	AM	MD	PM	ON
Site 1	101	0.1066695	0.1053479	0.1008234	0.0657041	0.0297584	0.0285892	0.0258615	0.0176949
	102	0.1066695	0.1053479	0.1008234	0.0657041	0.0297584	0.0285892	0.0258615	0.0176949
	103	0.1066695	0.1053479	0.1008234	0.0657041	0.0297584	0.0285892	0.0258615	0.0176949
	104	0.1066695	0.1053479	0.1008234	0.0657041	0.0297584	0.0285892	0.0258615	0.0176949
	105	0.2763169	0.2747701	0.4596459	0.0660442	0.0647701	0.0634016	0.0976741	0.0179243
	106	0.1039408	0.1026193	0.1013915	0.0657528	0.0291643	0.0279954	0.0260871	0.0177240
	107	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	108	0.1074108	0.1060832	0.1002616	0.0655412	0.0279518	0.0267774	0.0257109	0.0175780
	109	0.0794154	0.0785921	0.0915983	0.0646972	0.0192294	0.0185011	0.0230571	0.0169972
	110	0.1160631	0.1147181	0.2549846	0.0647694	0.0286484	0.0274585	0.0527804	0.0170456
	111	0.0836653	0.0827211	0.0804733	0.0640684	0.0204205	0.0195852	0.0189954	0.0165676
	112	0.0836653	0.0827211	0.0804733	0.0640684	0.0204205	0.0195852	0.0189954	0.0165676
	113	0.1086909	0.1073568	0.1063013	0.0636286	0.0269566	0.0257763	0.0255663	0.0162705
	114	0.1086909	0.1073568	0.1063013	0.0636286	0.0269566	0.0257763	0.0255663	0.0162705
	115	0.1146027	0.1132924	0.1146182	0.0683476	0.0347588	0.0335997	0.0303485	0.0194709
	116	0.0826417	0.0818289	0.0822086	0.0687369	0.0246336	0.0239145	0.0214471	0.0197366
	117	0.0823957	0.0815821	0.0804730	0.0690626	0.0250369	0.0243172	0.0213463	0.0199596
	118	0.0861286	0.0853155	0.0790515	0.0690556	0.0256541	0.0249348	0.0211149	0.0199547
	119	0.0823957	0.0815821	0.0804730	0.0690626	0.0250369	0.0243172	0.0213463	0.0199596
	120	0.0823957	0.0815821	0.0804730	0.0690626	0.0250369	0.0243172	0.0213463	0.0199596
	121	0.0823957	0.0815821	0.0804730	0.0690626	0.0250369	0.0243172	0.0213463	0.0199596
	122	0.0805810	0.0797486	0.0915236	0.0707567	0.0198463	0.0191100	0.0254308	0.0211150
	123	0.0805810	0.0797486	0.0915236	0.0707567	0.0198463	0.0191100	0.0254308	0.0211150
	124	0.0805810	0.0797486	0.0915236	0.0707567	0.0198463	0.0191100	0.0254308	0.0211150
	125	0.0884127	0.0874680	0.1100975	0.0672664	0.0234088	0.0225731	0.0288688	0.0187290
	126	0.0884127	0.0874680	0.1100975	0.0672664	0.0234088	0.0225731	0.0288688	0.0187290
	127	0.0965810	0.0954168	0.1003192	0.0676314	0.0267755	0.0257455	0.0271088	0.0189757
	128	0.0884127	0.0874680	0.1100975	0.0672664	0.0234088	0.0225731	0.0288688	0.0187290
	129	0.0884127	0.0874680	0.1100975	0.0672664	0.0234088	0.0225731	0.0288688	0.0187290
	130	0.0884127	0.0874680	0.1100975	0.0672664	0.0234088	0.0225731	0.0288688	0.0187290
	131	0.0772523	0.0764414	0.1116933	0.0701975	0.0235927	0.0228753	0.0309192	0.0207364
	132	0.0764702	0.0756596	0.0821335	0.0700899	0.0232743	0.0225572	0.0221690	0.0206625
	133	0.0757351	0.0750653	0.0745362	0.0253127	0.0226815	0.0220890	0.0201686	0.0131707
	134	0.0691742	0.0684598	0.0697924	0.0254345	0.0217010	0.0210690	0.0197510	0.0132702
	135	0.0769357	0.0760585	0.1071968	0.0440627	0.0364523	0.0356763	0.0480548	0.0288052
	136	0.0770903	0.0762175	0.1076366	0.0440483	0.0362707	0.0354986	0.0479604	0.0287429
	137	0.0769349	0.0760583	0.1072082	0.0440605	0.0364410	0.0356656	0.0480457	0.0287964
	138	0.0766451	0.0757569	0.1065930	0.0441163	0.0365373	0.0357515	0.0480685	0.0289050
	139	0.0773473	0.0764789	0.1081032	0.0439796	0.0362446	0.0354765	0.0479406	0.0286668
	140	0.0959347	0.0949498	0.0916213	0.0440498	0.0527731	0.0519019	0.0425227	0.0287459
	141	0.0958613	0.0948719	0.0913725	0.0440609	0.0530139	0.0521387	0.0427301	0.0287972
	142	0.0959368	0.0949528	0.0916212	0.0440455	0.0527559	0.0518856	0.0425071	0.0287380
	143	0.0958652	0.0948758	0.0913765	0.0440594	0.0530182	0.0521429	0.0427338	0.0287975
	144	0.0959332	0.0949490	0.0916129	0.0440483	0.0527642	0.0518935	0.0425133	0.0287429
	145	0.0958671	0.0948778	0.0913739	0.0440605	0.0530136	0.0521384	0.0427284	0.0287964
	146	0.0000000	0.0000000	0.0000000	0.0227798	0.0000000	0.0000000	0.0000000	0.0113232
	147	0.0000000	0.0000000	0.0000000	0.0227798	0.0000000	0.0000000	0.0000000	0.0113232
	148	0.0000000	0.0000000	0.0000000	0.0227798	0.0000000	0.0000000	0.0000000	0.0113232
Site 2	201	0.0430733	0.0422543	0.0437430	0.0219644	0.0132701	0.0125455	0.0125006	0.0105123
	202	0.4159944	0.4143855	0.2093904	0.0264104	0.1212711	0.1198479	0.0537394	0.0141411
	203	0.0886755	0.0878428	0.1309958	0.0719479	0.0273377	0.0266010	0.0360257	0.0219911
	204	0.2469041	0.2454229	0.2966554	0.0712850	0.0631336	0.0618234	0.0735396	0.0215369
	205	0.0704435	0.0695760	0.0633616	0.0735710	0.0269072	0.0261399	0.0207597	0.0231738
	206	0.0728572	0.0708047	0.0629159	0.0720583	0.0400189	0.0382032	0.0306478	0.0331981
	207	0.1115948	0.1113082	0.1033929	0.0728412	0.0220805	0.0218270	0.0185899	0.0131683
	208	0.0958946	0.0922684	0.0745695	0.0598097	0.0655640	0.0623560	0.0471853	0.0477133
	209	0.0934588	0.0930199	0.0845705	0.0972005	0.0235367	0.0231485	0.0186907	0.0210656
	210	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	211	0.0719080	0.0710417	0.0626261	0.0736178	0.0272204	0.0264541	0.0205737	0.0231597
	212	0.0719080	0.0710417	0.0626261	0.0736178	0.0272204	0.0264541	0.0205737	0.0231597
	213	0.0718981	0.0710333	0.0626167	0.0736279	0.0271650	0.0264000	0.0205402	0.0231311
	214	0.3003496	0.2988274	0.3789201	0.0810145	0.0914094	0.0900629	0.1128312	0.0279508
	215	0.3001825	0.2986557	0.3786421	0.0808031	0.0914632	0.0901126	0.1128735	0.0279898
	216	0.2345653	0.2334360	0.1261024	0.0270724	0.0708433	0.0698444	0.0313515	0.0144666
	217	0.3557407	0.3550143	0.1940161	0.0559558	0.0736409	0.0729982	0.0347276	0.0125459
	218	0.2826657	0.2811488	0.1940611	0.0737698	0.0800487	0.0787068	0.0528114	0.0231971
	219	0.2826657	0.2811488	0.1940611	0.0737698	0.0800487	0.0787068	0.0528114	0.0231971
	220	0.1586534	0.1573053	0.0818171	0.0745750	0.0477269	0.0465343	0.0245073	0.0237459
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	222	0.0867011	0.0858123	0.0836783	0.0692382	0.0230711	0.0222849	0.0219924	0.0200681
	223	0.0867011	0.0858123	0.0836783	0.0692382	0.0230711	0.0222849	0.0219924	0.0200681
	224	0.0867011	0.0858123	0.0836783	0.0692382	0.0230711	0.0222849	0.0219924	0.0200681
	225	0.0871416	0.0863284	0.1065025	0.0720257	0.0246008	0.0238814	0.0307974	0.0219867
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	237	0.1134954	0.1128748	0.0934696	0.0350646	0.0417199	0.0411170	0.0354742	0.0212021
	238	0.1110864	0.1103658	0.0890236	0.0350646	0.0478952	0.0472579	0.0346178	0.0212021
	239	0.0664544	0.0655854	0.0744701	0.0350599	0.0307840	0.0300153	0.0306722	0.0211968
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	304	0.2210760	0.2196583	0.2309274	0.0753246	0.0693600	0.0681059	0.0640196	0.

	MOVES2014a Emissions Reference	Viaduct Alternative							
		PM ₁₀ Emission Rate (g/mi)				PM _{2.5} Emission Rate (g/mi)			
		AM	MD	PM	ON	AM	MD	PM	ON
Site 3	309	0.0388695	0.0378861	0.1187338	0.0917253	0.0233054	0.0224355	0.0422760	0.0354594
	310	0.2539622	0.2525052	0.1437924	0.0776694	0.0793343	0.0780456	0.0425833	0.0258546
	311	0.0763911	0.0755451	0.0806007	0.0980510	0.0367384	0.0359900	0.0339867	0.0396723
	312	0.2539622	0.2525052	0.1437924	0.0776694	0.0793343	0.0780456	0.0425833	0.0258546
	313	0.2539622	0.2525052	0.1437924	0.0776694	0.0793343	0.0780456	0.0425833	0.0258546
	314	0.0525838	0.0517369	0.0607408	0.0908928	0.0229583	0.0222092	0.0269533	0.0348966
	315	0.3407395	0.3391535	0.1841217	0.0806386	0.1043400	0.1029369	0.0565676	0.0278997
	316	0.0525838	0.0517369	0.0607408	0.0908928	0.0229583	0.0222092	0.0269533	0.0348966
	317	0.7799589	0.7776114	0.5569895	0.0982886	0.3375640	0.3354888	0.2072831	0.0395344
	318	0.3093536	0.3078050	0.1321991	0.0731472	0.0927331	0.0913632	0.0373380	0.0227799
	319	0.1770076	0.1756562	0.2445312	0.0663256	0.0557051	0.0545096	0.0537911	0.0181154
	320	0.0000000	0.0000000	0.0000000	0.0000000	0.0300581	0.0293180	0.0192227	0.0185078
	321	0.2140364	0.2126225	0.1622599	0.0725074	0.0638402	0.0625894	0.0438633	0.0223083
	322	0.1849154	0.1835557	0.1129413	0.0786089	0.0598572	0.0586544	0.0353210	0.0265277
	323	0.2440183	0.2425740	0.3284176	0.0800887	0.0780604	0.0767828	0.0961912	0.0275468
	324	0.1062160	0.1051912	0.0935303	0.0765945	0.0353743	0.0344678	0.0278730	0.0251687
	325	0.1172263	0.1159143	0.1867905	0.0687676	0.0363667	0.0352062	0.0460596	0.0197776
	326	0.1000064	0.0989524	0.1086607	0.0699454	0.0306528	0.0297205	0.0300844	0.0205746
	327	0.0000000	0.0000000	0.0000000	0.0000000	0.0285350	0.0277428	0.0254396	0.0207702
	328	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	329	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
	330	0.0805701	0.0797311	0.0632133	0.0382871	0.0404634	0.0397213	0.0305746	0.0236866
	331	0.0743939	0.0735376	0.1151456	0.0350197	0.0371959	0.0364385	0.0399123	0.0211024

Resuspended Fine Paved Road Dust

Fugitive Dust Emission Reference	PM10							
	Road Type v/day	Emission Factor g/VMT	PM Size (maximum diameter) micrometer	k g/VMT	a	b	Avg. Vehicle Weight tons	Silt content g/m ²
1	ADT > 500	1.71	10	1.0	0.91	1.02	2.7	0.60
2	5,000 > ADT ≥ 500	0.628	10	1.0	0.91	1.02	2.7	0.20
3	10,000 ≥ ADT ≥ 5,000	0.210	10	1.0	0.91	1.02	2.7	0.06
4	ADT > 10,000	0.112	10	1.0	0.91	1.02	2.7	0.03
5	ADT > 10,000 Limited access roads	0.059	10	1.0	0.91	1.02	2.7	0.015

Location	Avg. Vehicle Weight (lbs)
NY State	5,324
NYMA	5,565
Richmond	5,085
Queens	5,119
Manhattan	5,085
Bronx	5,149
Kings	5,055
Unknown default	6,000

Operational Mesoscale Analysis

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```

Urban Restricted	avgSp	avgBinS	minSpe	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	0	speed < 2.5mph	54.91	7.90	7.83	9.49	9.02	68.07	25.83	5.69	14.46	10.15	117.50	4.27	5.33
	2	5	2.5	2.5mph <= speed < 7.5mph	29.45	4.57	4.72	5.84	5.21	48.56	14.92	3.21	7.91	5.44	65.23	2.43	3.07
	3	10	7.5	7.5mph <= speed < 12.5mph	16.80	2.88	3.12	3.91	3.05	39.90	9.97	1.83	4.91	3.19	42.82	1.38	1.77
	4	15	12.5	12.5mph <= speed < 17.5mph	12.92	2.39	2.59	3.27	2.42	36.38	8.51	1.41	4.34	2.69	40.53	1.05	1.35
	5	20	17.5	17.5mph <= speed < 22.5mph	11.57	2.17	2.45	2.96	2.05	34.56	7.97	1.21	4.07	2.56	40.33	0.90	1.14
	6	25	22.5	22.5mph <= speed < 27.5mph	11.22	2.00	2.32	2.82	1.78	32.89	7.18	1.09	3.76	2.45	39.35	0.80	1.02
	7	30	27.5	27.5mph <= speed < 32.5mph	11.17	1.99	2.41	2.88	1.62	33.10	7.14	0.99	3.74	2.46	40.96	0.73	0.93
	8	35	32.5	32.5mph <= speed < 37.5mph	11.90	2.25	2.99	3.17	1.43	26.80	5.97	0.89	3.28	2.16	35.56	0.66	0.83
	9	40	37.5	37.5mph <= speed < 42.5mph	12.45	2.45	3.39	3.50	1.34	26.06	5.69	0.83	3.13	2.07	34.49	0.61	0.78
	10	45	42.5	42.5mph <= speed < 47.5mph	12.88	2.57	3.63	3.72	1.27	25.39	5.42	0.79	2.99	1.99	33.38	0.58	0.74
	11	50	47.5	47.5mph <= speed < 52.5mph	12.95	2.55	3.71	3.77	1.21	24.78	5.13	0.74	2.81	1.88	31.58	0.55	0.70
	12	55	52.5	52.5mph <= speed < 57.5mph	12.97	2.42	3.62	3.71	1.15	24.25	4.87	0.71	2.64	1.79	29.82	0.52	0.67
	13	60	57.5	57.5mph <= speed < 62.5mph	13.06	2.35	3.54	3.66	1.09	24.01	4.56	0.68	2.39	1.66	27.79	0.50	0.64
	14	65	62.5	62.5mph <= speed < 67.5mph	13.43	2.33	3.64	3.80	1.05	25.99	4.99	0.64	2.30	1.67	31.23	0.47	0.61
	15	70	67.5	67.5mph <= speed < 72.5mph	13.22	2.55	4.15	4.36	1.01	27.81	5.41	0.61	2.24	1.68	34.58	0.45	0.58
	16	75	72.5	72.5mph <= speed	12.74	3.07	5.11	5.35	0.99	29.88	5.86	0.58	2.23	1.75	38.74	0.43	0.56

Urban Unrestricted	avgSp	avgBinS	minSpe	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	0	speed < 2.5mph	54.17	7.54	7.46	9.25	8.43	76.06	24.35	4.41	14.37	10.09	116.66	4.29	5.36
	2	5	2.5	2.5mph <= speed < 7.5mph	29.88	4.87	5.14	6.28	5.13	53.93	12.74	2.66	7.79	5.37	64.35	2.43	3.07
	3	10	7.5	7.5mph <= speed < 12.5mph	17.74	3.53	3.98	4.80	2.98	28.80	7.09	1.78	4.91	3.18	42.83	1.39	1.78
	4	15	12.5	12.5mph <= speed < 17.5mph	13.69	3.09	3.60	4.30	2.45	14.34	3.41	1.42	4.31	2.58	38.98	1.06	1.37
	5	20	17.5	17.5mph <= speed < 22.5mph	11.79	2.72	3.23	3.86	2.06	17.07	3.91	1.22	3.99	2.38	37.17	0.91	1.16
	6	25	22.5	22.5mph <= speed < 27.5mph	10.91	2.22	2.67	3.19	1.79	18.71	4.21	1.10	3.61	2.19	34.63	0.81	1.04
	7	30	27.5	27.5mph <= speed < 32.5mph	10.40	2.12	2.57	3.08	1.62	19.80	4.41	0.99	3.49	2.15	34.95	0.73	0.94
	8	35	32.5	32.5mph <= speed < 37.5mph	11.15	1.91	2.42	2.89	1.42	19.05	4.06	0.89	2.92	1.78	27.88	0.66	0.84
	9	40	37.5	37.5mph <= speed < 42.5mph	11.97	1.71	2.29	2.72	1.33	18.48	3.79	0.83	2.68	1.63	25.78	0.62	0.78
	10	45	42.5	42.5mph <= speed < 47.5mph	12.57	1.59	2.21	2.61	1.26	18.04	3.59	0.78	2.48	1.52	24.09	0.58	0.74
	11	50	47.5	47.5mph <= speed < 52.5mph	12.97	1.55	2.19	2.56	1.19	20.07	3.82	0.74	2.30	1.41	22.21	0.55	0.70
	12	55	52.5	52.5mph <= speed < 57.5mph	13.30	1.55	2.26	2.60	1.14	21.72	4.01	0.70	2.14	1.32	20.68	0.52	0.67
	13	60	57.5	57.5mph <= speed < 62.5mph	13.57	1.59	2.41	2.74	1.07	21.68	3.72	0.67	1.92	1.21	19.05	0.50	0.64
	14	65	62.5	62.5mph <= speed < 67.5mph	13.69	1.68	2.68	3.00	1.03	23.91	4.22	0.64	1.88	1.25	23.35	0.47	0.61
	15	70	67.5	67.5mph <= speed < 72.5mph	13.48	1.91	3.27	3.57	1.00	26.01	4.72	0.60	1.85	1.29	27.49	0.45	0.58
	16	75	72.5	72.5mph <= speed	13.11	2.54	4.42	4.69	0.98	28.35	5.25	0.58	1.86	1.38	32.41	0.43	0.56

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.38	0.29	0.34	0.98	32.10	63.02	59.39	25.16	14.78	17.71	19.73	15.67	19.95
	2	5	2.5mph <= speed < 7.5mph	0.87	0.20	0.25	0.60	16.65	31.79	28.65	13.51	7.16	8.39	10.17	8.48	10.78
	3	10	7.5mph <= speed < 12.5mph	0.61	0.16	0.19	0.39	10.38	19.30	16.73	7.99	4.18	4.68	6.02	5.04	6.49
	4	15	12.5mph <= speed < 17.5mph	0.50	0.13	0.16	0.29	8.55	15.50	13.32	6.58	3.30	3.62	5.15	4.17	5.40
	5	20	17.5mph <= speed < 22.5mph	0.51	0.12	0.15	0.25	7.51	13.55	11.54	5.66	2.80	3.04	4.67	3.59	4.68
	6	25	22.5mph <= speed < 27.5mph	0.58	0.12	0.15	0.25	6.84	12.32	10.25	5.13	2.46	2.70	4.30	3.26	4.25
	7	30	27.5mph <= speed < 32.5mph	0.65	0.12	0.17	0.26	6.60	11.85	9.76	4.90	2.38	2.52	4.28	3.12	4.09
	8	35	32.5mph <= speed < 37.5mph	0.75	0.14	0.20	0.28	5.69	10.36	8.36	4.23	2.12	2.25	4.00	2.71	3.56
	9	40	37.5mph <= speed < 42.5mph	0.82	0.15	0.22	0.30	5.55	10.12	7.88	4.04	2.02	2.11	3.99	2.61	3.44
	10	45	42.5mph <= speed < 47.5mph	0.88	0.16	0.24	0.32	5.44	9.93	7.47	3.89	1.94	1.98	3.98	2.53	3.35
	11	50	47.5mph <= speed < 52.5mph	0.90	0.16	0.25	0.32	5.37	9.73	6.98	3.69	1.85	1.86	3.93	2.43	3.24
	12	55	52.5mph <= speed < 57.5mph	0.91	0.16	0.25	0.32	5.30	9.57	6.57	3.52	1.78	1.75	3.88	2.34	3.12
	13	60	57.5mph <= speed < 62.5mph	0.92	0.16	0.26	0.33	5.38	9.41	6.17	3.54	1.67	1.63	3.73	2.36	3.09
	14	65	62.5mph <= speed < 67.5mph	0.96	0.17	0.28	0.35	5.59	9.92	7.15	3.65	1.68	1.63	3.82	2.48	3.25
	15	70	67.5mph <= speed < 72.5mph	0.93	0.19	0.32	0.40	5.78	10.40	8.10	3.73	1.69	1.64	3.92	2.58	3.38
	16	75	72.5mph <= speed	0.88	0.21	0.37	0.46	6.03	11.03	9.08	3.87	1.74	1.68	4.07	2.71	3.55

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.36	0.29	0.33	0.98	30.19	60.87	53.43	18.20	14.65	17.53	19.57	15.75	20.05
	2	5	2.5mph <= speed < 7.5mph	0.90	0.21	0.25	0.60	16.31	30.07	23.00	11.31	7.00	8.17	9.97	8.41	10.70
	3	10	7.5mph <= speed < 12.5mph	0.67	0.17	0.21	0.41	10.27	16.40	13.30	7.86	4.14	4.60	5.97	5.07	6.53
	4	15	12.5mph <= speed < 17.5mph	0.59	0.16	0.21	0.35	8.67	8.96	6.51	6.66	3.26	3.55	5.00	4.23	5.49
	5	20	17.5mph <= speed < 22.5mph	0.56	0.16	0.20	0.32	7.61	8.38	6.38	5.70	2.73	2.94	4.40	3.64	4.75
	6	25	22.5mph <= speed < 27.5mph	0.57	0.15	0.20	0.30	6.90	8.03	6.30	5.13	2.36	2.58	3.90	3.29	4.30
	7	30	27.5mph <= speed < 32.5mph	0.58	0.14	0.18	0.28	6.64	7.80	6.25	4.87	2.24	2.36	3.83	3.14	4.13
	8	35	32.5mph <= speed < 37.5mph	0.69	0.13	0.19	0.28	5.64	7.36	5.87	4.14	1.94	2.05	3.48	2.70	3.56
	9	40	37.5mph <= speed < 42.5mph	0.79	0.13	0.19	0.28	5.46	7.03	5.59	3.92	1.81	1.87	3.44	2.58	3.42
	10	45	42.5mph <= speed < 47.5mph	0.86	0.13	0.20	0.28	5.32	6.77	5.37	3.76	1.71	1.72	3.40	2.49	3.32
	11	50	47.5mph <= speed < 52.5mph	0.91	0.13	0.21	0.29	5.23	8.01	5.51	3.54	1.61	1.58	3.36	2.38	3.19
	12	55	52.5mph <= speed < 57.5mph	0.95	0.14	0.22	0.29	5.16	9.03	5.63	3.35	1.53	1.46	3.32	2.28	3.06
	13	60	57.5mph <= speed < 62.5mph	0.97	0.14	0.23	0.31	5.25	8.94	5.22	3.39	1.41	1.34	3.18	2.31	3.03
	14	65	62.5mph <= speed < 67.5mph	0.98	0.15	0.25	0.33	5.48	9.49	6.29	3.51	1.43	1.35	3.31	2.44	3.20
	15	70	67.5mph <= speed < 72.5mph	0.95	0.17	0.30	0.38	5.69	10.02	7.33	3.62	1.46	1.36	3.44	2.55	3.36
	16	75	72.5mph <= speed	0.91	0.20	0.36	0.45	5.96	10.72	8.41	3.78	1.53	1.43	3.63	2.69	3.54

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	4.73	0.14	0.13	0.23	2.85	7.30	8.00	1.68	2.12	1.97	6.71	1.15	1.47
	2	5	2.5mph <= speed < 7.5mph	2.45	0.08	0.08	0.13	1.56	4.12	4.42	0.95	1.15	1.06	3.65	0.65	0.83
	3	10	7.5mph <= speed < 12.5mph	1.33	0.05	0.05	0.08	0.83	2.45	2.43	0.51	0.64	0.56	2.06	0.35	0.44
	4	15	12.5mph <= speed < 17.5mph	1.01	0.03	0.04	0.07	0.60	1.86	1.78	0.34	0.47	0.41	1.62	0.23	0.30
	5	20	17.5mph <= speed < 22.5mph	0.84	0.03	0.03	0.05	0.47	1.54	1.44	0.26	0.38	0.33	1.39	0.18	0.23
	6	25	22.5mph <= speed < 27.5mph	0.73	0.02	0.03	0.05	0.38	1.31	1.20	0.22	0.31	0.27	1.20	0.15	0.19
	7	30	27.5mph <= speed < 32.5mph	0.65	0.02	0.03	0.04	0.33	1.20	1.05	0.18	0.28	0.24	1.09	0.13	0.16
	8	35	32.5mph <= speed < 37.5mph	0.62	0.02	0.03	0.04	0.30	1.01	0.92	0.17	0.24	0.21	0.91	0.12	0.15
	9	40	37.5mph <= speed < 42.5mph	0.59	0.02	0.04	0.05	0.28	0.93	0.83	0.15	0.21	0.19	0.81	0.10	0.13
	10	45	42.5mph <= speed < 47.5mph	0.56	0.02	0.04	0.05	0.26	0.86	0.76	0.14	0.19	0.18	0.73	0.09	0.12
	11	50	47.5mph <= speed < 52.5mph	0.54	0.02	0.04	0.05	0.24	0.80	0.70	0.13	0.17	0.16	0.64	0.09	0.12
	12	55	52.5mph <= speed < 57.5mph	0.52	0.02	0.04	0.04	0.22	0.76	0.65	0.12	0.15	0.15	0.56	0.08	0.11
	13	60	57.5mph <= speed < 62.5mph	0.51	0.02	0.04	0.04	0.21	0.71	0.60	0.11	0.14	0.14	0.50	0.08	0.10
	14	65	62.5mph <= speed < 67.5mph	0.50	0.02	0.04	0.05	0.20	0.71	0.56	0.10	0.13	0.13	0.49	0.07	0.10
	15	70	67.5mph <= speed < 72.5mph	0.49	0.03	0.05	0.05	0.19	0.70	0.53	0.09	0.12	0.12	0.49	0.07	0.09
	16	75	72.5mph <= speed	0.47	0.03	0.05	0.06	0.18	0.71	0.50	0.09	0.11	0.11	0.51	0.06	0.09

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	4.66	0.14	0.13	0.23	2.64	7.09	7.48	1.28	2.11	1.97	6.68	1.15	1.47
	2	5	2.5mph <= speed < 7.5mph	2.47	0.08	0.08	0.13	1.54	3.72	3.67	0.75	1.14	1.06	3.61	0.65	0.83
	3	10	7.5mph <= speed < 12.5mph	1.38	0.05	0.05	0.09	0.81	1.98	1.99	0.48	0.63	0.56	2.04	0.35	0.44
	4	15	12.5mph <= speed < 17.5mph	1.01	0.04	0.05	0.07	0.60	1.14	1.13	0.34	0.46	0.41	1.57	0.23	0.30
	5	20	17.5mph <= speed < 22.5mph	0.83	0.03	0.04	0.06	0.47	1.02	0.96	0.26	0.37	0.32	1.29	0.18	0.23
	6	25	22.5mph <= speed < 27.5mph	0.72	0.03	0.04	0.05	0.38	0.94	0.86	0.22	0.29	0.27	1.05	0.15	0.19
	7	30	27.5mph <= speed < 32.5mph	0.64	0.03	0.03	0.05	0.33	0.90	0.79	0.18	0.26	0.23	0.94	0.13	0.16
	8	35	32.5mph <= speed < 37.5mph	0.60	0.02	0.03	0.04	0.30	0.81	0.71	0.17	0.22	0.21	0.75	0.12	0.15
	9	40	37.5mph <= speed < 42.5mph	0.57	0.02	0.03	0.04	0.28	0.74	0.64	0.15	0.19	0.19	0.64	0.10	0.13
	10	45	42.5mph <= speed < 47.5mph	0.55	0.02	0.03	0.04	0.26	0.69	0.59	0.14	0.17	0.17	0.56	0.10	0.12
	11	50	47.5mph <= speed < 52.5mph	0.53	0.02	0.03	0.04	0.24	0.69	0.61	0.13	0.15	0.16	0.47	0.09	0.12
	12	55	52.5mph <= speed < 57.5mph	0.52	0.02	0.03	0.04	0.23	0.70	0.63	0.12	0.14	0.15	0.41	0.08	0.11
	13	60	57.5mph <= speed < 62.5mph	0.51	0.02	0.03	0.04	0.21	0.66	0.58	0.11	0.12	0.13	0.36	0.08	0.10
	14	65	62.5mph <= speed < 67.5mph	0.50	0.02	0.03	0.04	0.20	0.66	0.55	0.10	0.11	0.12	0.37	0.07	0.10
	15	70	67.5mph <= speed < 72.5mph	0.49	0.02	0.04	0.05	0.19	0.66	0.51	0.09	0.11	0.12	0.38	0.07	0.09
	16	75	72.5mph <= speed	0.48	0.03	0.05	0.06	0.18	0.67	0.49	0.09	0.10	0.11	0.41	0.06	0.09

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.05	0.02	0.01	0.04	1.47	1.37	3.66	0.87	0.62	0.73	0.63	0.51	0.78
	2	5	2.5mph <= speed < 7.5mph	0.03	0.01	0.01	0.02	0.78	0.77	2.04	0.46	0.31	0.37	0.33	0.27	0.42
	3	10	7.5mph <= speed < 12.5mph	0.02	0.01	0.01	0.01	0.46	0.49	1.18	0.27	0.17	0.20	0.18	0.16	0.25
	4	15	12.5mph <= speed < 17.5mph	0.01	0.01	0.00	0.01	0.37	0.39	0.91	0.23	0.13	0.15	0.14	0.14	0.22
	5	20	17.5mph <= speed < 22.5mph	0.02	0.00	0.00	0.01	0.32	0.36	0.77	0.20	0.11	0.13	0.11	0.12	0.19
	6	25	22.5mph <= speed < 27.5mph	0.02	0.01	0.00	0.01	0.29	0.33	0.65	0.19	0.09	0.11	0.10	0.11	0.17
	7	30	27.5mph <= speed < 32.5mph	0.02	0.01	0.00	0.01	0.27	0.36	0.60	0.18	0.09	0.10	0.14	0.10	0.17
	8	35	32.5mph <= speed < 37.5mph	0.03	0.01	0.01	0.01	0.22	0.31	0.53	0.14	0.08	0.09	0.19	0.08	0.13
	9	40	37.5mph <= speed < 42.5mph	0.04	0.01	0.01	0.01	0.20	0.33	0.50	0.13	0.08	0.09	0.29	0.08	0.12
	10	45	42.5mph <= speed < 47.5mph	0.04	0.01	0.01	0.01	0.19	0.34	0.47	0.13	0.08	0.09	0.36	0.07	0.12
	11	50	47.5mph <= speed < 52.5mph	0.04	0.01	0.01	0.01	0.17	0.34	0.44	0.11	0.08	0.09	0.37	0.07	0.10
	12	55	52.5mph <= speed < 57.5mph	0.04	0.01	0.01	0.01	0.16	0.34	0.41	0.10	0.07	0.09	0.35	0.06	0.09
	13	60	57.5mph <= speed < 62.5mph	0.03	0.01	0.01	0.01	0.15	0.34	0.39	0.09	0.07	0.08	0.32	0.05	0.08
	14	65	62.5mph <= speed < 67.5mph	0.03	0.01	0.01	0.01	0.14	0.36	0.37	0.09	0.06	0.07	0.30	0.05	0.08
	15	70	67.5mph <= speed < 72.5mph	0.03	0.01	0.01	0.01	0.14	0.37	0.35	0.09	0.06	0.07	0.29	0.05	0.09
	16	75	72.5mph <= speed	0.03	0.01	0.01	0.01	0.14	0.40	0.33	0.09	0.06	0.07	0.29	0.06	0.09

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.05	0.02	0.01	0.04	1.42	1.35	3.24	0.71	0.61	0.72	0.63	0.52	0.78
	2	5	2.5mph <= speed < 7.5mph	0.04	0.01	0.01	0.02	0.77	0.72	1.49	0.41	0.31	0.36	0.33	0.27	0.41
	3	10	7.5mph <= speed < 12.5mph	0.03	0.01	0.01	0.02	0.46	0.38	0.86	0.27	0.17	0.20	0.18	0.16	0.25
	4	15	12.5mph <= speed < 17.5mph	0.03	0.01	0.01	0.01	0.38	0.20	0.43	0.23	0.13	0.15	0.13	0.14	0.22
	5	20	17.5mph <= speed < 22.5mph	0.02	0.01	0.01	0.01	0.33	0.22	0.41	0.21	0.11	0.12	0.11	0.12	0.19
	6	25	22.5mph <= speed < 27.5mph	0.02	0.01	0.01	0.01	0.29	0.24	0.40	0.19	0.09	0.11	0.09	0.11	0.18
	7	30	27.5mph <= speed < 32.5mph	0.02	0.01	0.01	0.01	0.27	0.25	0.40	0.18	0.08	0.10	0.09	0.11	0.17
	8	35	32.5mph <= speed < 37.5mph	0.02	0.01	0.00	0.01	0.22	0.24	0.36	0.14	0.07	0.08	0.08	0.08	0.13
	9	40	37.5mph <= speed < 42.5mph	0.02	0.01	0.00	0.01	0.20	0.23	0.33	0.12	0.07	0.08	0.08	0.08	0.12
	10	45	42.5mph <= speed < 47.5mph	0.02	0.01	0.00	0.01	0.18	0.23	0.31	0.11	0.06	0.07	0.08	0.07	0.11
	11	50	47.5mph <= speed < 52.5mph	0.02	0.01	0.00	0.01	0.16	0.23	0.34	0.10	0.06	0.07	0.08	0.06	0.10
	12	55	52.5mph <= speed < 57.5mph	0.02	0.01	0.00	0.01	0.14	0.23	0.36	0.08	0.05	0.06	0.08	0.05	0.08
	13	60	57.5mph <= speed < 62.5mph	0.02	0.01	0.01	0.01	0.13	0.22	0.33	0.08	0.05	0.06	0.08	0.05	0.07
	14	65	62.5mph <= speed < 67.5mph	0.02	0.01	0.01	0.01	0.13	0.25	0.31	0.08	0.05	0.05	0.09	0.05	0.08
	15	70	67.5mph <= speed < 72.5mph	0.02	0.01	0.01	0.01	0.13	0.27	0.30	0.08	0.05	0.05	0.10	0.05	0.08
	16	75	72.5mph <= speed	0.02	0.01	0.01	0.01	0.13	0.30	0.28	0.08	0.04	0.05	0.11	0.05	0.08

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.06	0.02	0.01	0.04	1.59	1.49	3.98	0.95	0.67	0.79	0.69	0.56	0.84
	2	5	2.5mph <= speed < 7.5mph	0.04	0.02	0.01	0.02	0.84	0.83	2.22	0.50	0.34	0.40	0.37	0.30	0.45
	3	10	7.5mph <= speed < 12.5mph	0.02	0.01	0.01	0.01	0.50	0.53	1.28	0.29	0.19	0.21	0.20	0.18	0.27
	4	15	12.5mph <= speed < 17.5mph	0.02	0.01	0.00	0.01	0.40	0.43	0.99	0.25	0.14	0.16	0.15	0.15	0.23
	5	20	17.5mph <= speed < 22.5mph	0.02	0.01	0.00	0.01	0.35	0.40	0.84	0.22	0.12	0.14	0.13	0.13	0.21
	6	25	22.5mph <= speed < 27.5mph	0.02	0.01	0.00	0.01	0.31	0.36	0.71	0.20	0.10	0.12	0.11	0.12	0.19
	7	30	27.5mph <= speed < 32.5mph	0.03	0.01	0.01	0.01	0.29	0.40	0.65	0.19	0.09	0.11	0.15	0.11	0.18
	8	35	32.5mph <= speed < 37.5mph	0.04	0.01	0.01	0.01	0.24	0.34	0.57	0.15	0.09	0.10	0.22	0.09	0.14
	9	40	37.5mph <= speed < 42.5mph	0.04	0.01	0.01	0.01	0.22	0.36	0.54	0.14	0.09	0.10	0.32	0.09	0.13
	10	45	42.5mph <= speed < 47.5mph	0.04	0.01	0.01	0.01	0.20	0.38	0.51	0.14	0.09	0.10	0.40	0.08	0.13
	11	50	47.5mph <= speed < 52.5mph	0.04	0.01	0.01	0.01	0.19	0.38	0.48	0.12	0.08	0.10	0.42	0.07	0.11
	12	55	52.5mph <= speed < 57.5mph	0.04	0.01	0.01	0.01	0.17	0.38	0.45	0.10	0.08	0.09	0.40	0.06	0.10
	13	60	57.5mph <= speed < 62.5mph	0.04	0.01	0.01	0.01	0.16	0.37	0.42	0.10	0.07	0.09	0.36	0.06	0.09
	14	65	62.5mph <= speed < 67.5mph	0.04	0.01	0.01	0.01	0.16	0.40	0.40	0.10	0.07	0.08	0.34	0.06	0.09
	15	70	67.5mph <= speed < 72.5mph	0.03	0.01	0.01	0.01	0.15	0.41	0.38	0.09	0.06	0.08	0.33	0.06	0.09
	16	75	72.5mph <= speed	0.03	0.01	0.01	0.01	0.15	0.44	0.36	0.10	0.06	0.07	0.33	0.06	0.10

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.06	0.02	0.01	0.04	1.54	1.47	3.52	0.77	0.67	0.78	0.69	0.56	0.85
	2	5	2.5mph <= speed < 7.5mph	0.04	0.02	0.01	0.02	0.84	0.79	1.62	0.45	0.34	0.39	0.36	0.30	0.45
	3	10	7.5mph <= speed < 12.5mph	0.03	0.01	0.01	0.02	0.50	0.42	0.93	0.29	0.19	0.21	0.20	0.18	0.27
	4	15	12.5mph <= speed < 17.5mph	0.03	0.01	0.01	0.02	0.41	0.22	0.47	0.25	0.14	0.16	0.15	0.15	0.24
	5	20	17.5mph <= speed < 22.5mph	0.03	0.01	0.01	0.01	0.35	0.25	0.45	0.22	0.12	0.13	0.12	0.13	0.21
	6	25	22.5mph <= speed < 27.5mph	0.02	0.01	0.01	0.01	0.32	0.26	0.44	0.20	0.10	0.11	0.10	0.12	0.19
	7	30	27.5mph <= speed < 32.5mph	0.02	0.01	0.01	0.01	0.30	0.27	0.43	0.19	0.09	0.10	0.09	0.12	0.18
	8	35	32.5mph <= speed < 37.5mph	0.02	0.01	0.01	0.01	0.24	0.26	0.39	0.15	0.08	0.09	0.09	0.09	0.14
	9	40	37.5mph <= speed < 42.5mph	0.02	0.01	0.01	0.01	0.21	0.26	0.36	0.13	0.07	0.08	0.09	0.08	0.13
	10	45	42.5mph <= speed < 47.5mph	0.02	0.01	0.01	0.01	0.19	0.25	0.34	0.12	0.07	0.08	0.09	0.08	0.12
	11	50	47.5mph <= speed < 52.5mph	0.02	0.01	0.01	0.01	0.17	0.25	0.37	0.11	0.06	0.07	0.09	0.07	0.11
	12	55	52.5mph <= speed < 57.5mph	0.02	0.01	0.01	0.01	0.16	0.25	0.39	0.09	0.06	0.07	0.09	0.06	0.09
	13	60	57.5mph <= speed < 62.5mph	0.02	0.01	0.01	0.01	0.14	0.25	0.36	0.08	0.05	0.06	0.09	0.05	0.08
	14	65	62.5mph <= speed < 67.5mph	0.03	0.01	0.01	0.01	0.14	0.27	0.34	0.08	0.05	0.06	0.10	0.05	0.08
	15	70	67.5mph <= speed < 72.5mph	0.03	0.01	0.01	0.01	0.14	0.29	0.32	0.09	0.05	0.06	0.11	0.06	0.09
	16	75	72.5mph <= speed	0.03	0.01	0.01	0.01	0.14	0.33	0.31	0.09	0.05	0.05	0.13	0.06	0.09

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	50.54	3.41	3.33	4.28	2.96	21.26	14.18	2.67	8.35	5.06	36.11	2.74	2.92
	2	5	2.5mph <= speed < 7.5mph	27.11	2.03	2.01	2.65	1.60	12.59	7.99	1.49	4.52	2.66	19.41	1.54	1.65
	3	10	7.5mph <= speed < 12.5mph	15.47	1.32	1.33	1.78	0.90	7.81	4.73	0.83	2.73	1.50	11.73	0.86	0.93
	4	15	12.5mph <= speed < 17.5mph	11.90	1.09	1.09	1.47	0.71	6.32	3.81	0.64	2.39	1.19	10.54	0.65	0.71
	5	20	17.5mph <= speed < 22.5mph	10.65	1.02	1.05	1.36	0.60	5.53	3.35	0.55	2.23	1.06	10.02	0.56	0.60
	6	25	22.5mph <= speed < 27.5mph	10.33	0.97	1.01	1.31	0.53	4.95	2.94	0.49	2.08	1.00	9.78	0.50	0.54
	7	30	27.5mph <= speed < 32.5mph	10.28	1.01	1.07	1.36	0.47	4.68	2.71	0.44	2.04	0.95	9.55	0.45	0.49
	8	35	32.5mph <= speed < 37.5mph	10.95	1.23	1.37	1.53	0.43	4.01	2.36	0.40	1.82	0.86	8.58	0.41	0.44
	9	40	37.5mph <= speed < 42.5mph	11.46	1.39	1.57	1.73	0.41	3.77	2.20	0.38	1.74	0.82	8.17	0.38	0.41
	10	45	42.5mph <= speed < 47.5mph	11.86	1.50	1.71	1.86	0.39	3.57	2.06	0.35	1.67	0.78	7.79	0.36	0.39
	11	50	47.5mph <= speed < 52.5mph	11.92	1.51	1.75	1.90	0.37	3.35	1.90	0.34	1.57	0.74	7.26	0.34	0.37
	12	55	52.5mph <= speed < 57.5mph	11.94	1.43	1.71	1.87	0.35	3.17	1.78	0.32	1.47	0.70	6.74	0.33	0.35
	13	60	57.5mph <= speed < 62.5mph	12.02	1.40	1.68	1.85	0.33	2.96	1.63	0.30	1.33	0.64	6.05	0.31	0.33
	14	65	62.5mph <= speed < 67.5mph	12.37	1.41	1.73	1.94	0.31	2.94	1.56	0.28	1.25	0.60	5.75	0.29	0.31
	15	70	67.5mph <= speed < 72.5mph	12.17	1.58	1.98	2.25	0.29	2.93	1.49	0.26	1.18	0.57	5.54	0.27	0.30
	16	75	72.5mph <= speed	11.73	1.94	2.45	2.80	0.27	2.97	1.44	0.25	1.13	0.54	5.41	0.26	0.28

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	49.87	3.23	3.17	4.16	2.76	19.79	12.80	2.10	8.30	5.03	35.79	2.75	2.94
	2	5	2.5mph <= speed < 7.5mph	27.51	2.23	2.23	2.90	1.58	10.32	6.18	1.24	4.44	2.62	18.98	1.54	1.65
	3	10	7.5mph <= speed < 12.5mph	16.33	1.73	1.76	2.26	0.88	5.78	3.53	0.81	2.71	1.48	11.60	0.87	0.93
	4	15	12.5mph <= speed < 17.5mph	12.60	1.56	1.60	2.05	0.72	2.93	1.76	0.64	2.39	1.18	10.45	0.66	0.72
	5	20	17.5mph <= speed < 22.5mph	10.86	1.38	1.44	1.84	0.61	2.91	1.73	0.55	2.21	1.05	9.82	0.57	0.61
	6	25	22.5mph <= speed < 27.5mph	10.04	1.09	1.17	1.50	0.54	2.90	1.71	0.50	2.03	0.97	9.41	0.51	0.55
	7	30	27.5mph <= speed < 32.5mph	9.57	1.08	1.14	1.47	0.48	2.89	1.69	0.45	1.94	0.91	8.90	0.46	0.49
	8	35	32.5mph <= speed < 37.5mph	10.27	0.99	1.08	1.39	0.43	2.74	1.57	0.41	1.65	0.80	7.61	0.42	0.45
	9	40	37.5mph <= speed < 42.5mph	11.02	0.89	1.03	1.31	0.41	2.64	1.49	0.38	1.51	0.75	6.98	0.39	0.42
	10	45	42.5mph <= speed < 47.5mph	11.57	0.84	1.00	1.26	0.39	2.55	1.42	0.35	1.41	0.71	6.47	0.36	0.39
	11	50	47.5mph <= speed < 52.5mph	11.94	0.84	0.99	1.24	0.37	2.78	1.55	0.34	1.30	0.67	5.94	0.35	0.37
	12	55	52.5mph <= speed < 57.5mph	12.24	0.86	1.03	1.27	0.36	2.97	1.66	0.32	1.22	0.63	5.51	0.33	0.35
	13	60	57.5mph <= speed < 62.5mph	12.50	0.90	1.11	1.35	0.34	2.78	1.53	0.30	1.09	0.58	4.91	0.31	0.34
	14	65	62.5mph <= speed < 67.5mph	12.60	0.98	1.25	1.50	0.31	2.78	1.47	0.28	1.03	0.54	4.73	0.29	0.32
	15	70	67.5mph <= speed < 72.5mph	12.41	1.15	1.55	1.82	0.29	2.79	1.41	0.26	0.99	0.51	4.60	0.28	0.30
	16	75	72.5mph <= speed	12.07	1.58	2.11	2.44	0.27	2.85	1.37	0.25	0.95	0.49	4.54	0.26	0.28

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.36	0.06	0.10	0.24	10.97	39.79	27.94	9.47	6.98	8.86	10.66	9.09	9.99
	2	5	2.5mph <= speed < 7.5mph	0.85	0.05	0.08	0.16	5.76	20.15	13.39	5.11	3.41	4.21	5.49	4.94	5.43
	3	10	7.5mph <= speed < 12.5mph	0.59	0.04	0.06	0.11	3.60	12.00	7.80	3.05	2.00	2.35	3.20	2.94	3.25
	4	15	12.5mph <= speed < 17.5mph	0.49	0.03	0.04	0.08	2.93	9.27	6.04	2.51	1.58	1.81	2.64	2.42	2.69
	5	20	17.5mph <= speed < 22.5mph	0.49	0.03	0.04	0.07	2.52	8.02	5.14	2.15	1.34	1.51	2.34	2.07	2.30
	6	25	22.5mph <= speed < 27.5mph	0.57	0.03	0.04	0.07	2.26	7.18	4.50	1.93	1.17	1.33	2.11	1.86	2.07
	7	30	27.5mph <= speed < 32.5mph	0.63	0.04	0.05	0.08	2.14	7.17	4.35	1.84	1.14	1.24	2.10	1.77	1.97
	8	35	32.5mph <= speed < 37.5mph	0.73	0.05	0.07	0.09	1.84	6.14	3.79	1.59	1.03	1.12	1.99	1.54	1.71
	9	40	37.5mph <= speed < 42.5mph	0.81	0.05	0.08	0.11	1.75	5.97	3.62	1.51	0.99	1.05	2.00	1.47	1.63
	10	45	42.5mph <= speed < 47.5mph	0.86	0.06	0.09	0.11	1.69	5.83	3.49	1.45	0.96	1.00	2.00	1.42	1.57
	11	50	47.5mph <= speed < 52.5mph	0.88	0.06	0.09	0.12	1.65	5.70	3.36	1.38	0.93	0.94	1.99	1.36	1.50
	12	55	52.5mph <= speed < 57.5mph	0.89	0.06	0.09	0.12	1.61	5.59	3.24	1.31	0.90	0.90	1.98	1.30	1.43
	13	60	57.5mph <= speed < 62.5mph	0.90	0.06	0.10	0.12	1.60	5.47	3.09	1.34	0.85	0.85	1.91	1.32	1.45
	14	65	62.5mph <= speed < 67.5mph	0.94	0.07	0.11	0.14	1.64	5.92	3.37	1.38	0.84	0.83	1.91	1.38	1.51
	15	70	67.5mph <= speed < 72.5mph	0.91	0.08	0.13	0.17	1.69	6.33	3.65	1.42	0.84	0.82	1.92	1.43	1.56
	16	75	72.5mph <= speed	0.86	0.10	0.16	0.20	1.75	6.91	3.95	1.48	0.85	0.83	1.95	1.50	1.63

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.33	0.06	0.10	0.24	10.20	39.19	26.00	6.81	6.93	8.77	10.59	9.13	10.04
	2	5	2.5mph <= speed < 7.5mph	0.88	0.05	0.08	0.16	5.63	19.71	11.69	4.27	3.34	4.10	5.40	4.90	5.39
	3	10	7.5mph <= speed < 12.5mph	0.65	0.05	0.07	0.12	3.55	10.38	6.47	2.99	1.99	2.31	3.18	2.95	3.27
	4	15	12.5mph <= speed < 17.5mph	0.58	0.05	0.06	0.10	2.96	5.96	3.43	2.54	1.56	1.78	2.58	2.45	2.73
	5	20	17.5mph <= speed < 22.5mph	0.55	0.05	0.06	0.10	2.54	5.40	3.22	2.16	1.30	1.45	2.23	2.09	2.33
	6	25	22.5mph <= speed < 27.5mph	0.56	0.04	0.06	0.09	2.27	5.06	3.10	1.93	1.11	1.27	1.94	1.87	2.09
	7	30	27.5mph <= speed < 32.5mph	0.57	0.04	0.06	0.09	2.14	4.83	3.02	1.83	1.07	1.16	1.91	1.78	1.99
	8	35	32.5mph <= speed < 37.5mph	0.67	0.04	0.06	0.09	1.81	4.61	2.75	1.55	0.94	1.02	1.76	1.52	1.70
	9	40	37.5mph <= speed < 42.5mph	0.77	0.04	0.07	0.09	1.72	4.44	2.55	1.47	0.89	0.94	1.75	1.45	1.62
	10	45	42.5mph <= speed < 47.5mph	0.84	0.04	0.07	0.10	1.65	4.31	2.40	1.40	0.85	0.88	1.74	1.39	1.55
	11	50	47.5mph <= speed < 52.5mph	0.89	0.05	0.07	0.10	1.60	4.76	2.64	1.32	0.82	0.82	1.74	1.32	1.47
	12	55	52.5mph <= speed < 57.5mph	0.93	0.05	0.08	0.10	1.56	5.12	2.83	1.25	0.79	0.78	1.73	1.27	1.40
	13	60	57.5mph <= speed < 62.5mph	0.95	0.05	0.08	0.11	1.55	5.03	2.68	1.28	0.74	0.72	1.66	1.29	1.42
	14	65	62.5mph <= speed < 67.5mph	0.96	0.06	0.09	0.13	1.61	5.51	2.99	1.33	0.73	0.71	1.68	1.35	1.49
	15	70	67.5mph <= speed < 72.5mph	0.93	0.07	0.12	0.16	1.65	5.98	3.29	1.38	0.73	0.71	1.70	1.41	1.54
	16	75	72.5mph <= speed	0.89	0.10	0.15	0.19	1.72	6.61	3.62	1.45	0.75	0.72	1.75	1.49	1.62

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	4.21	0.02	0.02	0.04	0.67	4.74	6.00	0.56	1.05	0.96	3.19	0.59	0.64
	2	5	2.5mph <= speed < 7.5mph	2.19	0.01	0.02	0.03	0.37	2.56	3.32	0.32	0.58	0.52	1.75	0.34	0.36
	3	10	7.5mph <= speed < 12.5mph	1.19	0.01	0.01	0.02	0.19	1.39	1.81	0.17	0.32	0.27	0.98	0.18	0.19
	4	15	12.5mph <= speed < 17.5mph	0.90	0.01	0.01	0.01	0.14	1.00	1.32	0.11	0.24	0.20	0.76	0.12	0.13
	5	20	17.5mph <= speed < 22.5mph	0.75	0.01	0.01	0.01	0.11	0.78	1.06	0.09	0.19	0.16	0.63	0.09	0.10
	6	25	22.5mph <= speed < 27.5mph	0.65	0.01	0.01	0.01	0.08	0.64	0.88	0.07	0.16	0.13	0.53	0.08	0.08
	7	30	27.5mph <= speed < 32.5mph	0.58	0.01	0.01	0.01	0.07	0.57	0.76	0.06	0.14	0.11	0.46	0.07	0.07
	8	35	32.5mph <= speed < 37.5mph	0.55	0.01	0.01	0.01	0.07	0.51	0.67	0.05	0.12	0.10	0.38	0.06	0.06
	9	40	37.5mph <= speed < 42.5mph	0.52	0.01	0.01	0.02	0.06	0.48	0.61	0.05	0.10	0.09	0.32	0.05	0.06
	10	45	42.5mph <= speed < 47.5mph	0.50	0.01	0.01	0.02	0.05	0.45	0.56	0.04	0.09	0.08	0.28	0.05	0.05
	11	50	47.5mph <= speed < 52.5mph	0.48	0.01	0.01	0.02	0.05	0.43	0.51	0.04	0.08	0.07	0.24	0.04	0.05
	12	55	52.5mph <= speed < 57.5mph	0.47	0.01	0.01	0.02	0.04	0.41	0.47	0.04	0.07	0.07	0.20	0.04	0.04
	13	60	57.5mph <= speed < 62.5mph	0.45	0.01	0.01	0.02	0.04	0.39	0.43	0.03	0.06	0.06	0.17	0.04	0.04
	14	65	62.5mph <= speed < 67.5mph	0.45	0.01	0.01	0.02	0.04	0.38	0.40	0.03	0.06	0.06	0.16	0.03	0.04
	15	70	67.5mph <= speed < 72.5mph	0.44	0.01	0.02	0.02	0.03	0.36	0.38	0.03	0.05	0.05	0.15	0.03	0.04
	16	75	72.5mph <= speed	0.42	0.01	0.02	0.03	0.03	0.35	0.36	0.03	0.05	0.05	0.14	0.03	0.03

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	4.16	0.02	0.02	0.04	0.60	4.51	5.59	0.42	1.05	0.96	3.17	0.59	0.64
	2	5	2.5mph <= speed < 7.5mph	2.20	0.01	0.02	0.03	0.36	2.23	2.74	0.25	0.57	0.52	1.73	0.34	0.36
	3	10	7.5mph <= speed < 12.5mph	1.23	0.01	0.01	0.02	0.18	1.18	1.48	0.16	0.32	0.27	0.97	0.18	0.19
	4	15	12.5mph <= speed < 17.5mph	0.90	0.01	0.01	0.02	0.14	0.71	0.85	0.11	0.23	0.20	0.72	0.12	0.13
	5	20	17.5mph <= speed < 22.5mph	0.74	0.01	0.01	0.02	0.11	0.58	0.72	0.08	0.18	0.15	0.57	0.09	0.10
	6	25	22.5mph <= speed < 27.5mph	0.64	0.01	0.01	0.02	0.08	0.51	0.64	0.07	0.15	0.13	0.45	0.08	0.08
	7	30	27.5mph <= speed < 32.5mph	0.57	0.01	0.01	0.01	0.07	0.46	0.58	0.06	0.13	0.11	0.39	0.06	0.07
	8	35	32.5mph <= speed < 37.5mph	0.54	0.01	0.01	0.01	0.07	0.40	0.52	0.05	0.11	0.10	0.31	0.06	0.06
	9	40	37.5mph <= speed < 42.5mph	0.51	0.01	0.01	0.01	0.06	0.36	0.47	0.05	0.09	0.09	0.26	0.05	0.06
	10	45	42.5mph <= speed < 47.5mph	0.49	0.01	0.01	0.01	0.05	0.32	0.43	0.04	0.08	0.08	0.21	0.05	0.05
	11	50	47.5mph <= speed < 52.5mph	0.48	0.01	0.01	0.01	0.05	0.37	0.45	0.04	0.07	0.07	0.17	0.04	0.05
	12	55	52.5mph <= speed < 57.5mph	0.46	0.01	0.01	0.01	0.04	0.41	0.46	0.04	0.06	0.07	0.14	0.04	0.04
	13	60	57.5mph <= speed < 62.5mph	0.45	0.01	0.01	0.01	0.04	0.39	0.43	0.03	0.05	0.06	0.12	0.04	0.04
	14	65	62.5mph <= speed < 67.5mph	0.45	0.01	0.01	0.02	0.04	0.37	0.40	0.03	0.05	0.05	0.11	0.03	0.04
	15	70	67.5mph <= speed < 72.5mph	0.44	0.01	0.02	0.02	0.03	0.35	0.37	0.03	0.05	0.05	0.11	0.03	0.04
	16	75	72.5mph <= speed	0.43	0.01	0.02	0.03	0.03	0.35	0.35	0.03	0.04	0.05	0.11	0.03	0.03

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.05	0.01	0.01	0.01	0.22	0.98	1.75	0.18	0.18	0.24	0.28	0.19	0.24
	2	5	2.5mph <= speed < 7.5mph	0.03	0.01	0.00	0.01	0.12	0.50	0.85	0.10	0.09	0.12	0.14	0.10	0.13
	3	10	7.5mph <= speed < 12.5mph	0.02	0.00	0.00	0.00	0.07	0.30	0.48	0.06	0.05	0.06	0.07	0.06	0.08
	4	15	12.5mph <= speed < 17.5mph	0.01	0.00	0.00	0.00	0.06	0.23	0.35	0.05	0.04	0.05	0.06	0.05	0.07
	5	20	17.5mph <= speed < 22.5mph	0.01	0.00	0.00	0.00	0.05	0.20	0.29	0.05	0.03	0.04	0.05	0.05	0.06
	6	25	22.5mph <= speed < 27.5mph	0.01	0.00	0.00	0.00	0.05	0.18	0.25	0.05	0.03	0.03	0.04	0.04	0.06
	7	30	27.5mph <= speed < 32.5mph	0.02	0.00	0.00	0.00	0.05	0.17	0.23	0.04	0.03	0.03	0.05	0.04	0.05
	8	35	32.5mph <= speed < 37.5mph	0.03	0.00	0.00	0.00	0.04	0.14	0.20	0.03	0.03	0.03	0.07	0.03	0.04
	9	40	37.5mph <= speed < 42.5mph	0.03	0.00	0.00	0.00	0.03	0.13	0.19	0.03	0.03	0.03	0.11	0.03	0.04
	10	45	42.5mph <= speed < 47.5mph	0.04	0.01	0.00	0.00	0.03	0.12	0.18	0.03	0.03	0.04	0.13	0.03	0.04
	11	50	47.5mph <= speed < 52.5mph	0.04	0.01	0.00	0.00	0.03	0.11	0.18	0.03	0.03	0.04	0.14	0.03	0.03
	12	55	52.5mph <= speed < 57.5mph	0.03	0.00	0.00	0.00	0.03	0.10	0.17	0.02	0.03	0.03	0.13	0.02	0.03
	13	60	57.5mph <= speed < 62.5mph	0.03	0.00	0.00	0.00	0.03	0.09	0.16	0.02	0.03	0.03	0.12	0.02	0.03
	14	65	62.5mph <= speed < 67.5mph	0.03	0.00	0.00	0.00	0.02	0.09	0.15	0.02	0.02	0.03	0.11	0.02	0.03
	15	70	67.5mph <= speed < 72.5mph	0.03	0.00	0.00	0.00	0.02	0.09	0.14	0.02	0.02	0.03	0.10	0.02	0.03
	16	75	72.5mph <= speed	0.03	0.00	0.00	0.00	0.02	0.09	0.13	0.02	0.02	0.03	0.10	0.02	0.03

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.05	0.01	0.01	0.01	0.22	0.94	1.72	0.15	0.18	0.24	0.28	0.19	0.24
	2	5	2.5mph <= speed < 7.5mph	0.03	0.01	0.01	0.01	0.12	0.47	0.84	0.09	0.09	0.11	0.14	0.10	0.13
	3	10	7.5mph <= speed < 12.5mph	0.03	0.01	0.00	0.01	0.07	0.26	0.44	0.06	0.05	0.06	0.07	0.06	0.08
	4	15	12.5mph <= speed < 17.5mph	0.02	0.00	0.00	0.01	0.06	0.14	0.26	0.05	0.04	0.05	0.06	0.05	0.07
	5	20	17.5mph <= speed < 22.5mph	0.02	0.00	0.00	0.00	0.05	0.13	0.22	0.05	0.03	0.04	0.05	0.05	0.06
	6	25	22.5mph <= speed < 27.5mph	0.02	0.00	0.00	0.00	0.05	0.12	0.20	0.05	0.03	0.03	0.04	0.04	0.06
	7	30	27.5mph <= speed < 32.5mph	0.02	0.00	0.00	0.00	0.05	0.12	0.18	0.04	0.02	0.03	0.04	0.04	0.06
	8	35	32.5mph <= speed < 37.5mph	0.02	0.00	0.00	0.00	0.04	0.11	0.16	0.03	0.02	0.03	0.04	0.03	0.04
	9	40	37.5mph <= speed < 42.5mph	0.02	0.00	0.00	0.00	0.03	0.11	0.15	0.03	0.02	0.03	0.04	0.03	0.04
	10	45	42.5mph <= speed < 47.5mph	0.02	0.00	0.00	0.00	0.03	0.11	0.13	0.03	0.02	0.02	0.04	0.03	0.04
	11	50	47.5mph <= speed < 52.5mph	0.02	0.00	0.00	0.00	0.03	0.10	0.15	0.02	0.02	0.02	0.04	0.02	0.03
	12	55	52.5mph <= speed < 57.5mph	0.02	0.00	0.00	0.00	0.02	0.09	0.16	0.02	0.02	0.02	0.04	0.02	0.03
	13	60	57.5mph <= speed < 62.5mph	0.02	0.00	0.00	0.00	0.02	0.08	0.15	0.02	0.02	0.02	0.04	0.02	0.02
	14	65	62.5mph <= speed < 67.5mph	0.02	0.00	0.00	0.00	0.02	0.08	0.14	0.02	0.02	0.02	0.04	0.02	0.03
	15	70	67.5mph <= speed < 72.5mph	0.02	0.00	0.00	0.00	0.02	0.08	0.13	0.02	0.02	0.02	0.04	0.02	0.03
	16	75	72.5mph <= speed	0.02	0.00	0.00	0.00	0.02	0.08	0.13	0.02	0.02	0.02	0.04	0.02	0.03

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.06	0.01	0.01	0.01	0.24	1.06	1.90	0.19	0.20	0.26	0.31	0.20	0.26
	2	5	2.5mph <= speed < 7.5mph	0.03	0.01	0.01	0.01	0.13	0.54	0.92	0.11	0.10	0.13	0.15	0.11	0.14
	3	10	7.5mph <= speed < 12.5mph	0.02	0.00	0.00	0.01	0.08	0.32	0.52	0.06	0.05	0.07	0.08	0.07	0.08
	4	15	12.5mph <= speed < 17.5mph	0.01	0.00	0.00	0.00	0.06	0.25	0.38	0.06	0.04	0.05	0.06	0.06	0.07
	5	20	17.5mph <= speed < 22.5mph	0.02	0.00	0.00	0.00	0.06	0.22	0.31	0.05	0.03	0.04	0.05	0.05	0.07
	6	25	22.5mph <= speed < 27.5mph	0.02	0.00	0.00	0.00	0.05	0.20	0.27	0.05	0.03	0.04	0.05	0.05	0.06
	7	30	27.5mph <= speed < 32.5mph	0.02	0.00	0.00	0.00	0.05	0.19	0.25	0.05	0.03	0.04	0.06	0.04	0.06
	8	35	32.5mph <= speed < 37.5mph	0.03	0.00	0.00	0.00	0.04	0.15	0.22	0.04	0.03	0.03	0.08	0.04	0.05
	9	40	37.5mph <= speed < 42.5mph	0.04	0.01	0.00	0.00	0.04	0.14	0.21	0.04	0.03	0.04	0.12	0.03	0.04
	10	45	42.5mph <= speed < 47.5mph	0.04	0.01	0.00	0.01	0.03	0.13	0.20	0.03	0.03	0.04	0.15	0.03	0.04
	11	50	47.5mph <= speed < 52.5mph	0.04	0.01	0.01	0.01	0.03	0.12	0.19	0.03	0.03	0.04	0.16	0.03	0.04
	12	55	52.5mph <= speed < 57.5mph	0.04	0.01	0.00	0.00	0.03	0.11	0.19	0.03	0.03	0.04	0.15	0.03	0.03
	13	60	57.5mph <= speed < 62.5mph	0.03	0.01	0.00	0.00	0.03	0.10	0.18	0.02	0.03	0.04	0.13	0.02	0.03
	14	65	62.5mph <= speed < 67.5mph	0.03	0.00	0.00	0.00	0.03	0.10	0.16	0.02	0.03	0.03	0.12	0.02	0.03
	15	70	67.5mph <= speed < 72.5mph	0.03	0.00	0.00	0.00	0.03	0.10	0.15	0.02	0.03	0.03	0.12	0.02	0.03
	16	75	72.5mph <= speed	0.03	0.01	0.00	0.01	0.03	0.10	0.15	0.03	0.02	0.03	0.11	0.02	0.03

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.06	0.01	0.01	0.01	0.23	1.02	1.86	0.16	0.20	0.26	0.31	0.20	0.26
	2	5	2.5mph <= speed < 7.5mph	0.04	0.01	0.01	0.01	0.13	0.51	0.91	0.10	0.10	0.12	0.15	0.11	0.14
	3	10	7.5mph <= speed < 12.5mph	0.03	0.01	0.00	0.01	0.08	0.28	0.48	0.07	0.05	0.07	0.08	0.07	0.09
	4	15	12.5mph <= speed < 17.5mph	0.03	0.01	0.00	0.01	0.07	0.15	0.29	0.06	0.04	0.05	0.06	0.06	0.08
	5	20	17.5mph <= speed < 22.5mph	0.03	0.00	0.00	0.01	0.06	0.14	0.24	0.05	0.03	0.04	0.05	0.05	0.07
	6	25	22.5mph <= speed < 27.5mph	0.02	0.00	0.00	0.00	0.05	0.13	0.21	0.05	0.03	0.04	0.04	0.05	0.06
	7	30	27.5mph <= speed < 32.5mph	0.02	0.00	0.00	0.00	0.05	0.13	0.20	0.05	0.03	0.03	0.04	0.05	0.06
	8	35	32.5mph <= speed < 37.5mph	0.02	0.00	0.00	0.00	0.04	0.12	0.17	0.04	0.02	0.03	0.04	0.04	0.05
	9	40	37.5mph <= speed < 42.5mph	0.02	0.00	0.00	0.00	0.04	0.12	0.16	0.03	0.02	0.03	0.04	0.03	0.04
	10	45	42.5mph <= speed < 47.5mph	0.02	0.00	0.00	0.00	0.03	0.12	0.15	0.03	0.02	0.03	0.04	0.03	0.04
	11	50	47.5mph <= speed < 52.5mph	0.02	0.00	0.00	0.00	0.03	0.11	0.16	0.03	0.02	0.02	0.04	0.03	0.03
	12	55	52.5mph <= speed < 57.5mph	0.02	0.00	0.00	0.00	0.03	0.10	0.18	0.02	0.02	0.02	0.04	0.02	0.03
	13	60	57.5mph <= speed < 62.5mph	0.02	0.00	0.00	0.00	0.02	0.09	0.17	0.02	0.02	0.02	0.04	0.02	0.03
	14	65	62.5mph <= speed < 67.5mph	0.02	0.00	0.00	0.00	0.02	0.09	0.15	0.02	0.02	0.02	0.04	0.02	0.03
	15	70	67.5mph <= speed < 72.5mph	0.02	0.00	0.00	0.00	0.02	0.09	0.15	0.02	0.02	0.02	0.04	0.02	0.03
	16	75	72.5mph <= speed	0.02	0.00	0.00	0.00	0.03	0.09	0.14	0.02	0.02	0.02	0.04	0.02	0.03

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	47.93	1.82	1.72	2.03	2.53	7.42	2.86	2.55	6.85	2.52	13.49	2.48	2.48
	2	5	2.5mph <= speed < 7.5mph	25.71	1.10	1.05	1.27	1.37	4.39	1.51	1.42	3.71	1.31	7.19	1.38	1.38
	3	10	7.5mph <= speed < 12.5mph	14.67	0.73	0.70	0.85	0.77	3.01	0.84	0.79	2.24	0.70	4.35	0.77	0.77
	4	15	12.5mph <= speed < 17.5mph	11.28	0.59	0.57	0.69	0.61	2.72	0.66	0.60	1.96	0.54	3.89	0.58	0.58
	5	20	17.5mph <= speed < 22.5mph	10.10	0.56	0.56	0.65	0.51	2.59	0.58	0.52	1.83	0.46	3.69	0.50	0.50
	6	25	22.5mph <= speed < 27.5mph	9.79	0.54	0.54	0.63	0.46	2.50	0.52	0.46	1.71	0.41	3.58	0.45	0.45
	7	30	27.5mph <= speed < 32.5mph	9.75	0.59	0.59	0.67	0.40	2.37	0.47	0.42	1.70	0.37	3.52	0.40	0.40
	8	35	32.5mph <= speed < 37.5mph	10.38	0.76	0.79	0.79	0.37	1.95	0.43	0.38	1.52	0.34	3.18	0.37	0.37
	9	40	37.5mph <= speed < 42.5mph	10.87	0.89	0.92	0.91	0.35	1.82	0.41	0.36	1.46	0.32	3.04	0.34	0.34
	10	45	42.5mph <= speed < 47.5mph	11.24	0.98	1.01	0.99	0.33	1.70	0.39	0.34	1.40	0.31	2.91	0.32	0.32
	11	50	47.5mph <= speed < 52.5mph	11.30	0.99	1.04	1.02	0.32	1.54	0.37	0.32	1.32	0.29	2.73	0.31	0.30
	12	55	52.5mph <= speed < 57.5mph	11.32	0.94	1.02	1.01	0.30	1.41	0.35	0.30	1.24	0.28	2.54	0.29	0.29
	13	60	57.5mph <= speed < 62.5mph	11.40	0.93	1.00	1.01	0.28	1.28	0.32	0.29	1.12	0.26	2.28	0.28	0.28
	14	65	62.5mph <= speed < 67.5mph	11.73	0.94	1.04	1.06	0.27	1.26	0.31	0.27	1.05	0.24	2.17	0.26	0.26
	15	70	67.5mph <= speed < 72.5mph	11.54	1.06	1.21	1.26	0.25	1.24	0.29	0.25	0.99	0.23	2.08	0.24	0.24
	16	75	72.5mph <= speed	11.12	1.32	1.50	1.59	0.23	1.25	0.28	0.23	0.96	0.22	2.03	0.23	0.22

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	47.29	1.72	1.63	1.98	2.36	6.95	2.62	2.01	6.80	2.51	13.38	2.49	2.49
	2	5	2.5mph <= speed < 7.5mph	26.09	1.24	1.18	1.41	1.35	3.72	1.22	1.18	3.64	1.29	7.03	1.38	1.38
	3	10	7.5mph <= speed < 12.5mph	15.49	1.00	0.96	1.12	0.75	2.14	0.68	0.77	2.23	0.70	4.31	0.77	0.77
	4	15	12.5mph <= speed < 17.5mph	11.95	0.92	0.89	1.03	0.61	0.96	0.36	0.61	1.96	0.54	3.86	0.59	0.59
	5	20	17.5mph <= speed < 22.5mph	10.29	0.82	0.80	0.92	0.52	1.13	0.33	0.52	1.82	0.46	3.62	0.51	0.51
	6	25	22.5mph <= speed < 27.5mph	9.52	0.63	0.64	0.74	0.46	1.23	0.31	0.47	1.68	0.41	3.45	0.45	0.45
	7	30	27.5mph <= speed < 32.5mph	9.08	0.64	0.64	0.74	0.41	1.30	0.29	0.42	1.61	0.37	3.28	0.41	0.41
	8	35	32.5mph <= speed < 37.5mph	9.74	0.59	0.61	0.70	0.37	1.28	0.28	0.38	1.37	0.34	2.81	0.37	0.37
	9	40	37.5mph <= speed < 42.5mph	10.45	0.54	0.58	0.67	0.35	1.27	0.26	0.36	1.25	0.32	2.57	0.35	0.35
	10	45	42.5mph <= speed < 47.5mph	10.97	0.51	0.57	0.65	0.34	1.26	0.25	0.34	1.17	0.31	2.39	0.33	0.32
	11	50	47.5mph <= speed < 52.5mph	11.32	0.52	0.57	0.64	0.32	1.27	0.30	0.32	1.08	0.29	2.20	0.31	0.31
	12	55	52.5mph <= speed < 57.5mph	11.61	0.54	0.60	0.67	0.30	1.27	0.34	0.30	1.01	0.28	2.05	0.30	0.30
	13	60	57.5mph <= speed < 62.5mph	11.85	0.57	0.65	0.72	0.29	1.15	0.32	0.29	0.91	0.26	1.83	0.28	0.28
	14	65	62.5mph <= speed < 67.5mph	11.95	0.63	0.74	0.81	0.27	1.14	0.30	0.27	0.86	0.24	1.76	0.26	0.26
	15	70	67.5mph <= speed < 72.5mph	11.76	0.76	0.93	1.01	0.25	1.13	0.29	0.25	0.82	0.23	1.71	0.24	0.24
	16	75	72.5mph <= speed	11.45	1.07	1.29	1.38	0.24	1.15	0.28	0.23	0.79	0.22	1.69	0.23	0.23

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.34	0.01	0.04	0.10	7.61	9.28	8.26	8.99	5.27	6.72	5.45	8.28	8.56
	2	5	2.5mph <= speed < 7.5mph	0.84	0.01	0.03	0.06	3.99	4.92	4.01	4.86	2.59	3.18	2.73	4.52	4.68
	3	10	7.5mph <= speed < 12.5mph	0.59	0.01	0.02	0.04	2.51	2.97	2.36	2.89	1.53	1.79	1.60	2.69	2.80
	4	15	12.5mph <= speed < 17.5mph	0.49	0.01	0.01	0.03	2.05	2.35	1.84	2.39	1.21	1.38	1.31	2.21	2.31
	5	20	17.5mph <= speed < 22.5mph	0.49	0.01	0.01	0.02	1.75	2.04	1.54	2.04	1.03	1.14	1.14	1.89	1.97
	6	25	22.5mph <= speed < 27.5mph	0.56	0.01	0.02	0.02	1.57	1.83	1.34	1.84	0.90	1.00	1.02	1.70	1.77
	7	30	27.5mph <= speed < 32.5mph	0.62	0.01	0.02	0.03	1.49	1.76	1.26	1.75	0.88	0.92	1.00	1.61	1.68
	8	35	32.5mph <= speed < 37.5mph	0.72	0.02	0.03	0.03	1.28	1.54	1.12	1.51	0.79	0.83	0.94	1.39	1.45
	9	40	37.5mph <= speed < 42.5mph	0.79	0.02	0.03	0.04	1.22	1.49	1.06	1.44	0.77	0.77	0.93	1.33	1.38
	10	45	42.5mph <= speed < 47.5mph	0.85	0.03	0.04	0.04	1.18	1.45	1.01	1.38	0.74	0.73	0.92	1.28	1.32
	11	50	47.5mph <= speed < 52.5mph	0.87	0.03	0.04	0.05	1.15	1.42	0.96	1.31	0.72	0.68	0.91	1.22	1.25
	12	55	52.5mph <= speed < 57.5mph	0.88	0.03	0.04	0.05	1.13	1.40	0.93	1.25	0.70	0.65	0.90	1.17	1.19
	13	60	57.5mph <= speed < 62.5mph	0.89	0.03	0.04	0.05	1.13	1.36	0.87	1.27	0.66	0.61	0.86	1.19	1.21
	14	65	62.5mph <= speed < 67.5mph	0.92	0.04	0.05	0.06	1.16	1.41	0.92	1.31	0.65	0.60	0.87	1.24	1.26
	15	70	67.5mph <= speed < 72.5mph	0.89	0.05	0.06	0.07	1.20	1.46	0.96	1.35	0.64	0.59	0.87	1.28	1.30
	16	75	72.5mph <= speed	0.85	0.06	0.08	0.09	1.24	1.53	1.02	1.41	0.65	0.60	0.89	1.34	1.35

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.32	0.01	0.04	0.10	7.07	9.03	7.32	6.46	5.22	6.65	5.40	8.32	8.61
	2	5	2.5mph <= speed < 7.5mph	0.87	0.01	0.03	0.06	3.90	4.64	3.08	4.05	2.53	3.10	2.67	4.48	4.64
	3	10	7.5mph <= speed < 12.5mph	0.64	0.01	0.03	0.04	2.48	2.50	1.82	2.85	1.52	1.76	1.58	2.71	2.82
	4	15	12.5mph <= speed < 17.5mph	0.57	0.02	0.02	0.04	2.07	1.39	0.86	2.41	1.20	1.35	1.28	2.24	2.35
	5	20	17.5mph <= speed < 22.5mph	0.54	0.02	0.02	0.04	1.77	1.29	0.86	2.05	1.00	1.10	1.09	1.91	1.99
	6	25	22.5mph <= speed < 27.5mph	0.55	0.01	0.02	0.03	1.58	1.22	0.86	1.84	0.86	0.96	0.95	1.71	1.79
	7	30	27.5mph <= speed < 32.5mph	0.56	0.02	0.02	0.03	1.49	1.18	0.85	1.74	0.82	0.87	0.92	1.62	1.69
	8	35	32.5mph <= speed < 37.5mph	0.66	0.02	0.02	0.03	1.26	1.11	0.78	1.47	0.73	0.76	0.84	1.38	1.44
	9	40	37.5mph <= speed < 42.5mph	0.76	0.02	0.03	0.04	1.20	1.05	0.73	1.39	0.69	0.70	0.82	1.31	1.36
	10	45	42.5mph <= speed < 47.5mph	0.83	0.02	0.03	0.04	1.15	1.01	0.69	1.33	0.66	0.65	0.81	1.26	1.30
	11	50	47.5mph <= speed < 52.5mph	0.88	0.02	0.03	0.04	1.12	1.18	0.77	1.25	0.64	0.60	0.80	1.19	1.22
	12	55	52.5mph <= speed < 57.5mph	0.91	0.02	0.03	0.04	1.09	1.32	0.84	1.18	0.62	0.56	0.78	1.14	1.16
	13	60	57.5mph <= speed < 62.5mph	0.94	0.03	0.04	0.04	1.10	1.29	0.79	1.21	0.58	0.52	0.75	1.16	1.18
	14	65	62.5mph <= speed < 67.5mph	0.94	0.03	0.04	0.05	1.14	1.34	0.84	1.26	0.57	0.51	0.76	1.21	1.23
	15	70	67.5mph <= speed < 72.5mph	0.91	0.04	0.06	0.07	1.18	1.40	0.89	1.31	0.57	0.51	0.78	1.26	1.28
	16	75	72.5mph <= speed	0.88	0.06	0.07	0.09	1.23	1.48	0.96	1.38	0.57	0.52	0.80	1.33	1.34

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	3.91	0.01	0.01	0.02	0.51	0.69	0.54	0.52	0.72	0.51	1.16	0.50	0.50
	2	5	2.5mph <= speed < 7.5mph	2.03	0.01	0.01	0.01	0.28	0.41	0.30	0.30	0.40	0.28	0.63	0.29	0.29
	3	10	7.5mph <= speed < 12.5mph	1.10	0.00	0.01	0.01	0.15	0.24	0.16	0.16	0.22	0.14	0.35	0.15	0.15
	4	15	12.5mph <= speed < 17.5mph	0.84	0.00	0.00	0.01	0.10	0.18	0.11	0.11	0.17	0.10	0.27	0.10	0.10
	5	20	17.5mph <= speed < 22.5mph	0.70	0.00	0.00	0.00	0.08	0.14	0.09	0.08	0.13	0.08	0.23	0.08	0.08
	6	25	22.5mph <= speed < 27.5mph	0.60	0.00	0.00	0.00	0.06	0.11	0.07	0.07	0.11	0.06	0.19	0.06	0.06
	7	30	27.5mph <= speed < 32.5mph	0.54	0.00	0.00	0.00	0.05	0.10	0.06	0.06	0.10	0.06	0.17	0.05	0.05
	8	35	32.5mph <= speed < 37.5mph	0.51	0.00	0.00	0.01	0.05	0.08	0.05	0.05	0.08	0.05	0.14	0.05	0.05
	9	40	37.5mph <= speed < 42.5mph	0.49	0.00	0.00	0.01	0.04	0.07	0.05	0.04	0.07	0.05	0.12	0.04	0.04
	10	45	42.5mph <= speed < 47.5mph	0.47	0.00	0.01	0.01	0.04	0.06	0.04	0.04	0.06	0.04	0.10	0.04	0.04
	11	50	47.5mph <= speed < 52.5mph	0.45	0.00	0.01	0.01	0.04	0.05	0.04	0.04	0.05	0.04	0.08	0.04	0.04
	12	55	52.5mph <= speed < 57.5mph	0.43	0.00	0.01	0.01	0.03	0.05	0.04	0.03	0.05	0.04	0.07	0.03	0.03
	13	60	57.5mph <= speed < 62.5mph	0.42	0.00	0.01	0.01	0.03	0.04	0.03	0.03	0.04	0.03	0.06	0.03	0.03
	14	65	62.5mph <= speed < 67.5mph	0.41	0.00	0.01	0.01	0.03	0.04	0.03	0.03	0.04	0.03	0.06	0.03	0.03
	15	70	67.5mph <= speed < 72.5mph	0.41	0.01	0.01	0.01	0.03	0.04	0.03	0.03	0.03	0.03	0.05	0.03	0.03
	16	75	72.5mph <= speed	0.39	0.01	0.01	0.01	0.02	0.03	0.03	0.02	0.03	0.03	0.05	0.02	0.02

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	3.86	0.01	0.01	0.02	0.46	0.64	0.49	0.38	0.72	0.51	1.15	0.51	0.51
	2	5	2.5mph <= speed < 7.5mph	2.05	0.01	0.01	0.01	0.27	0.33	0.22	0.23	0.39	0.27	0.62	0.29	0.29
	3	10	7.5mph <= speed < 12.5mph	1.14	0.00	0.01	0.01	0.14	0.18	0.12	0.15	0.22	0.14	0.35	0.15	0.15
	4	15	12.5mph <= speed < 17.5mph	0.84	0.00	0.01	0.01	0.10	0.10	0.07	0.10	0.16	0.10	0.26	0.10	0.10
	5	20	17.5mph <= speed < 22.5mph	0.69	0.00	0.00	0.01	0.08	0.09	0.06	0.08	0.13	0.08	0.21	0.08	0.08
	6	25	22.5mph <= speed < 27.5mph	0.59	0.00	0.00	0.01	0.06	0.08	0.05	0.07	0.10	0.06	0.16	0.06	0.06
	7	30	27.5mph <= speed < 32.5mph	0.53	0.00	0.00	0.01	0.05	0.08	0.05	0.06	0.09	0.06	0.14	0.05	0.05
	8	35	32.5mph <= speed < 37.5mph	0.50	0.00	0.00	0.01	0.05	0.07	0.04	0.05	0.07	0.05	0.11	0.05	0.05
	9	40	37.5mph <= speed < 42.5mph	0.48	0.00	0.00	0.01	0.04	0.06	0.04	0.04	0.06	0.05	0.09	0.04	0.04
	10	45	42.5mph <= speed < 47.5mph	0.46	0.00	0.00	0.00	0.04	0.05	0.03	0.04	0.05	0.04	0.08	0.04	0.04
	11	50	47.5mph <= speed < 52.5mph	0.44	0.00	0.00	0.00	0.04	0.05	0.04	0.04	0.04	0.04	0.06	0.04	0.04
	12	55	52.5mph <= speed < 57.5mph	0.43	0.00	0.00	0.00	0.03	0.04	0.04	0.03	0.04	0.04	0.05	0.03	0.03
	13	60	57.5mph <= speed < 62.5mph	0.42	0.00	0.00	0.01	0.03	0.04	0.03	0.03	0.03	0.03	0.04	0.03	0.03
	14	65	62.5mph <= speed < 67.5mph	0.41	0.00	0.00	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03
	15	70	67.5mph <= speed < 72.5mph	0.41	0.00	0.01	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03
	16	75	72.5mph <= speed	0.40	0.01	0.01	0.01	0.02	0.03	0.03	0.02	0.03	0.03	0.04	0.02	0.02

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.05	0.00	0.00	0.01	0.14	0.12	0.11	0.15	0.08	0.11	0.08	0.13	0.15
	2	5	2.5mph <= speed < 7.5mph	0.03	0.00	0.00	0.00	0.08	0.07	0.05	0.08	0.04	0.05	0.04	0.07	0.08
	3	10	7.5mph <= speed < 12.5mph	0.02	0.00	0.00	0.00	0.05	0.04	0.03	0.05	0.02	0.03	0.02	0.04	0.05
	4	15	12.5mph <= speed < 17.5mph	0.01	0.00	0.00	0.00	0.04	0.04	0.02	0.05	0.02	0.02	0.02	0.04	0.05
	5	20	17.5mph <= speed < 22.5mph	0.01	0.00	0.00	0.00	0.04	0.03	0.02	0.04	0.01	0.02	0.01	0.04	0.04
	6	25	22.5mph <= speed < 27.5mph	0.01	0.00	0.00	0.00	0.03	0.03	0.02	0.04	0.01	0.02	0.01	0.03	0.04
	7	30	27.5mph <= speed < 32.5mph	0.02	0.00	0.00	0.00	0.03	0.03	0.02	0.04	0.01	0.02	0.02	0.03	0.04
	8	35	32.5mph <= speed < 37.5mph	0.03	0.00	0.00	0.00	0.03	0.02	0.01	0.03	0.01	0.01	0.02	0.03	0.03
	9	40	37.5mph <= speed < 42.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.03	0.02	0.01	0.03	0.02	0.03
	10	45	42.5mph <= speed < 47.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.03	0.02	0.01	0.03	0.02	0.03
	11	50	47.5mph <= speed < 52.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.02	0.01	0.03	0.02	0.02
	12	55	52.5mph <= speed < 57.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.02	0.01	0.03	0.02	0.02
	13	60	57.5mph <= speed < 62.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.02	0.01	0.03	0.02	0.02
	14	65	62.5mph <= speed < 67.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.03	0.02	0.02
	15	70	67.5mph <= speed < 72.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.03	0.02	0.02
	16	75	72.5mph <= speed	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.03	0.02	0.02

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.05	0.00	0.00	0.01	0.14	0.12	0.11	0.13	0.08	0.11	0.08	0.13	0.15
	2	5	2.5mph <= speed < 7.5mph	0.03	0.00	0.00	0.00	0.08	0.07	0.05	0.08	0.04	0.05	0.04	0.07	0.08
	3	10	7.5mph <= speed < 12.5mph	0.03	0.00	0.00	0.00	0.05	0.04	0.03	0.05	0.02	0.03	0.02	0.05	0.05
	4	15	12.5mph <= speed < 17.5mph	0.02	0.00	0.00	0.00	0.04	0.02	0.02	0.05	0.02	0.02	0.02	0.04	0.05
	5	20	17.5mph <= speed < 22.5mph	0.02	0.00	0.00	0.00	0.04	0.02	0.01	0.04	0.01	0.02	0.01	0.04	0.04
	6	25	22.5mph <= speed < 27.5mph	0.02	0.00	0.00	0.00	0.03	0.02	0.01	0.04	0.01	0.02	0.01	0.03	0.04
	7	30	27.5mph <= speed < 32.5mph	0.02	0.00	0.00	0.00	0.03	0.02	0.01	0.04	0.01	0.01	0.01	0.03	0.04
	8	35	32.5mph <= speed < 37.5mph	0.02	0.00	0.00	0.00	0.03	0.02	0.01	0.03	0.01	0.01	0.01	0.02	0.03
	9	40	37.5mph <= speed < 42.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.03	0.01	0.01	0.01	0.02	0.03
	10	45	42.5mph <= speed < 47.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.03	0.01	0.01	0.01	0.02	0.02
	11	50	47.5mph <= speed < 52.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.02
	12	55	52.5mph <= speed < 57.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.02
	13	60	57.5mph <= speed < 62.5mph	0.02	0.00	0.00	0.00	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.02
	14	65	62.5mph <= speed < 67.5mph	0.02	0.00	0.00	0.00	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.02
	15	70	67.5mph <= speed < 72.5mph	0.02	0.00	0.00	0.00	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.02
	16	75	72.5mph <= speed	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.02	0.02	0.02

Urban Restricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.05	0.00	0.00	0.01	0.15	0.13	0.12	0.17	0.09	0.12	0.09	0.15	0.16
	2	5	2.5mph <= speed < 7.5mph	0.03	0.00	0.00	0.00	0.08	0.07	0.06	0.09	0.04	0.06	0.04	0.08	0.09
	3	10	7.5mph <= speed < 12.5mph	0.02	0.00	0.00	0.00	0.05	0.05	0.03	0.06	0.03	0.03	0.02	0.05	0.05
	4	15	12.5mph <= speed < 17.5mph	0.01	0.00	0.00	0.00	0.04	0.04	0.02	0.05	0.02	0.02	0.02	0.04	0.05
	5	20	17.5mph <= speed < 22.5mph	0.01	0.00	0.00	0.00	0.04	0.03	0.02	0.05	0.02	0.02	0.02	0.04	0.04
	6	25	22.5mph <= speed < 27.5mph	0.02	0.00	0.00	0.00	0.04	0.03	0.02	0.04	0.01	0.02	0.01	0.04	0.04
	7	30	27.5mph <= speed < 32.5mph	0.02	0.00	0.00	0.00	0.03	0.03	0.02	0.04	0.01	0.02	0.02	0.03	0.04
	8	35	32.5mph <= speed < 37.5mph	0.03	0.00	0.00	0.00	0.03	0.03	0.02	0.03	0.01	0.02	0.02	0.03	0.03
	9	40	37.5mph <= speed < 42.5mph	0.03	0.00	0.00	0.00	0.03	0.02	0.01	0.03	0.02	0.01	0.03	0.03	0.03
	10	45	42.5mph <= speed < 47.5mph	0.04	0.00	0.00	0.00	0.02	0.02	0.01	0.03	0.02	0.01	0.03	0.02	0.03
	11	50	47.5mph <= speed < 52.5mph	0.04	0.00	0.00	0.00	0.02	0.02	0.01	0.03	0.02	0.01	0.03	0.02	0.03
	12	55	52.5mph <= speed < 57.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.02	0.01	0.03	0.02	0.02
	13	60	57.5mph <= speed < 62.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.02	0.01	0.03	0.02	0.02
	14	65	62.5mph <= speed < 67.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.02	0.01	0.03	0.02	0.02
	15	70	67.5mph <= speed < 72.5mph	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.02	0.01	0.03	0.02	0.02
	16	75	72.5mph <= speed	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.02	0.01	0.03	0.02	0.02

Urban Unrestricted	avgSp	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.05	0.00	0.00	0.01	0.15	0.13	0.12	0.14	0.09	0.12	0.09	0.15	0.16
	2	5	2.5mph <= speed < 7.5mph	0.04	0.00	0.00	0.00	0.08	0.07	0.06	0.08	0.04	0.06	0.04	0.08	0.09
	3	10	7.5mph <= speed < 12.5mph	0.03	0.00	0.00	0.00	0.05	0.04	0.03	0.06	0.03	0.03	0.02	0.05	0.06
	4	15	12.5mph <= speed < 17.5mph	0.03	0.00	0.00	0.00	0.05	0.02	0.02	0.05	0.02	0.02	0.02	0.04	0.05
	5	20	17.5mph <= speed < 22.5mph	0.02	0.00	0.00	0.00	0.04	0.02	0.02	0.05	0.02	0.02	0.01	0.04	0.05
	6	25	22.5mph <= speed < 27.5mph	0.02	0.00	0.00	0.00	0.04	0.02	0.01	0.04	0.01	0.02	0.01	0.04	0.04
	7	30	27.5mph <= speed < 32.5mph	0.02	0.00	0.00	0.00	0.03	0.02	0.01	0.04	0.01	0.02	0.01	0.04	0.04
	8	35	32.5mph <= speed < 37.5mph	0.02	0.00	0.00	0.00	0.03	0.02	0.01	0.03	0.01	0.01	0.01	0.03	0.03
	9	40	37.5mph <= speed < 42.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.03	0.01	0.01	0.01	0.03	0.03
	10	45	42.5mph <= speed < 47.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.03	0.01	0.01	0.01	0.02	0.03
	11	50	47.5mph <= speed < 52.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.02
	12	55	52.5mph <= speed < 57.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.02
	13	60	57.5mph <= speed < 62.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.02
	14	65	62.5mph <= speed < 67.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.02
	15	70	67.5mph <= speed < 72.5mph	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.02	0.02	0.02
	16	75	72.5mph <= speed	0.02	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.01	0.01	0.02	0.02	0.02

**Operational
Mobile Source Air Toxics (MSAT) Analysis**

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20433_i81_msats_2020_rates_cty_24h4s_excDiesP10 (moves runid=2).mrs
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  <modeldomain value="SINGLE"/>
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Onondaga County"/>
  </geographicselections>
  <timespan>
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    <month id="4"/>
    <month id="7"/>
    <month id="10"/>
    <day id="2"/>
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    <beginhour id="1"/>
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sourcetypeid="62" sourcetyponame="Combination Long-haul Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="61" sourcetyponame="Combination Short-haul Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="41" sourcetyponame="Intercity Bus"/>
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sourcetypeid="32" sourcetyponame="Light Commercial Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="54" sourcetyponame="Motor Home"/>
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sourcetypeid="21" sourcetyponame="Passenger Car"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="31" sourcetyponame="Passenger Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="51" sourcetyponame="Refuse Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="43" sourcetyponame="School Bus"/>
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sourcetypeid="53" sourcetyponame="Single Unit Long-haul Truck"/>
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sourcetypeid="52" sourcetyponame="Single Unit Short-haul Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="42" sourcetyponame="Transit Bus"/>
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sourcetypeid="32" sourcetyponame="Light Commercial Truck"/>
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sourcetypeid="21" sourcetyponame="Passenger Car"/>
    <onroadvehicleselection fueltypeid="9" fueltypedesc="Electricity"
sourcetypeid="31" sourcetyponame="Passenger Truck"/>
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sourcetypeid="32" sourcetyponame="Light Commercial Truck"/>
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sourcetypeid="21" sourcetyponame="Passenger Car"/>
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sourcetypeid="31" sourcetyponame="Passenger Truck"/>
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sourcetypeid="61" sourcetyponame="Combination Short-haul Truck"/>
    <onroadvehicleselection fueltypeid="1" fueltypedesc="Gasoline"
sourcetypeid="32" sourcetyponame="Light Commercial Truck"/>

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20433_i81_msats_2020_rates_cty_24h4s_excDiesP10 (moves runid=2).mrs
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sourcetypeid="54" sourcetyponame="Motor Home"/>
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sourcetypeid="21" sourcetyponame="Passenger Car"/>
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sourcetypeid="31" sourcetyponame="Passenger Truck"/>
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sourcetypeid="51" sourcetyponame="Refuse Truck"/>
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sourcetypeid="53" sourcetyponame="Single Unit Long-haul Truck"/>
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sourcetypeid="52" sourcetyponame="Single Unit Short-haul Truck"/>
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pollutantname="1,3-Butadiene" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="170"
pollutantname="Acenaphthene gas" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="170"
pollutantname="Acenaphthene gas" processkey="15" processname="Crankcase Running Exhaust"/>
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particle" processkey="1" processname="Running Exhaust"/>
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particle" processkey="15" processname="Crankcase Running Exhaust"/>
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pollutantname="Acenaphthylene gas" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="171"
pollutantname="Acenaphthylene gas" processkey="15" processname="Crankcase Running
Exhaust"/>
  <pollutantprocessassociation pollutantkey="71"
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  <pollutantprocessassociation pollutantkey="71"
pollutantname="Acenaphthylene particle" processkey="15" processname="Crankcase Running
Exhaust"/>
  <pollutantprocessassociation pollutantkey="27" pollutantname="Acrolein"
processkey="1" processname="Running Exhaust"/>
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processkey="15" processname="Crankcase Running Exhaust"/>
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gas" processkey="1" processname="Running Exhaust"/>
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gas" processkey="15" processname="Crankcase Running Exhaust"/>
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particle" processkey="1" processname="Running Exhaust"/>
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particle" processkey="15" processname="Crankcase Running Exhaust"/>
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Exhaust"/>
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    <pollutantprocessassociation pollutantkey="73"
pollutantname="Benz(a)anthracene particle" processkey="15" processname="Crankcase Running
Exhaust"/>
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processkey="1" processname="Running Exhaust"/>
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processkey="11" processname="Evap Permeation"/>
    <pollutantprocessassociation pollutantkey="20" pollutantname="Benzene"
processkey="13" processname="Evap Fuel Leaks"/>
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processkey="15" processname="Crankcase Running Exhaust"/>
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Exhaust"/>
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Exhaust"/>
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Exhaust"/>
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Exhaust"/>
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Running Exhaust"/>
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pollutantname="Benzo(g,h,i)perylene gas" processkey="15" processname="Crankcase Running
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pollutantname="Benzo(g,h,i)perylene particle" processkey="1" processname="Running
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pollutantname="Benzo(g,h,i)perylene particle" processkey="15" processname="Crankcase
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pollutantname="Benzo(k)fluoranthene gas" processkey="15" processname="Crankcase Running
Exhaust"/>
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Exhaust"/>
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pollutantname="Benzo(k)fluoranthene particle" processkey="15" processname="Crankcase
Running Exhaust"/>
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gas" processkey="1" processname="Running Exhaust"/>
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gas" processkey="15" processname="Crankcase Running Exhaust"/>
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20433_i81_msats_2020_rates_cty_24h4s_excDiesP10 (moves runid=2).mrs
particle" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="118" pollutantname="Composite -
NonECPM" processkey="1" processname="Running Exhaust"/>
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NonECPM" processkey="15" processname="Crankcase Running Exhaust"/>
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Exhaust"/>
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Exhaust"/>
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pollutantname="Dibenzo(a,h)anthracene particle" processkey="15" processname="Crankcase
Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="112" pollutantname="Elemental
Carbon" processkey="1" processname="Running Exhaust"/>
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Carbon" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="169"
pollutantname="Fluoranthene gas" processkey="1" processname="Running Exhaust"/>
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pollutantname="Fluoranthene gas" processkey="15" processname="Crankcase Running Exhaust"/>
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particle" processkey="1" processname="Running Exhaust"/>
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particle" processkey="15" processname="Crankcase Running Exhaust"/>
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gas" processkey="1" processname="Running Exhaust"/>
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gas" processkey="15" processname="Crankcase Running Exhaust"/>
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pollutantname="Formaldehyde" processkey="15" processname="Crankcase Running Exhaust"/>
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(aerosol)" processkey="1" processname="Running Exhaust"/>
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(aerosol)" processkey="15" processname="Crankcase Running Exhaust"/>
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Exhaust"/>
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particle" processkey="1" processname="Running Exhaust"/>
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20433_i81_msats_2020_rates_cty_24h4s_excDiesP10 (moves runid=2).mrs
particle" processkey="15" processname="Crankcase Running Exhaust"/>
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  <pollutantprocessassociation pollutantkey="79" pollutantname="Non-Methane
Hydrocarbons" processkey="11" processname="Evap Permeation"/>
  <pollutantprocessassociation pollutantkey="79" pollutantname="Non-Methane
Hydrocarbons" processkey="13" processname="Evap Fuel Leaks"/>
  <pollutantprocessassociation pollutantkey="79" pollutantname="Non-Methane
Hydrocarbons" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="111" pollutantname="Organic
Carbon" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="111" pollutantname="Organic
Carbon" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="183"
pollutantname="Phenanthrene gas" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="183"
pollutantname="Phenanthrene gas" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="83" pollutantname="Phenanthrene
particle" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="83" pollutantname="Phenanthrene
particle" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="184" pollutantname="Pyrene gas"
processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="184" pollutantname="Pyrene gas"
processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="84" pollutantname="Pyrene
particle" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="84" pollutantname="Pyrene
particle" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="115" pollutantname="Sulfate
Particulate" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="115" pollutantname="Sulfate
Particulate" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="1" pollutantname="Total Gaseous
Hydrocarbons" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="1" pollutantname="Total Gaseous
Hydrocarbons" processkey="11" processname="Evap Permeation"/>
  <pollutantprocessassociation pollutantkey="1" pollutantname="Total Gaseous
Hydrocarbons" processkey="13" processname="Evap Fuel Leaks"/>
  <pollutantprocessassociation pollutantkey="1" pollutantname="Total Gaseous
Hydrocarbons" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="87" pollutantname="Volatile
Organic Compounds" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="87" pollutantname="Volatile
Organic Compounds" processkey="11" processname="Evap Permeation"/>
  <pollutantprocessassociation pollutantkey="87" pollutantname="Volatile
Organic Compounds" processkey="13" processname="Evap Fuel Leaks"/>
  <pollutantprocessassociation pollutantkey="87" pollutantname="Volatile
Organic Compounds" processkey="15" processname="Crankcase Running Exhaust"/>
</pollutantprocessassociations>
<databaseselections>
  <databaseselection servername="" databasename="moves2014_nylev"
description=""/>
</databaseselections>
<internalcontrolstrategies>
<internalcontrolstrategy
classname="gov.epa.otaq.moves.master.implementation.ghg.internalcontrolstrategies.rateofpr
ogress.RateOfProgressStrategy"><![CDATA[
useParameters    No

]]></internalcontrolstrategy>
  </internalcontrolstrategies>
  <inputdatabase servername="" databasename="" description=""/>
  <uncertaintyparameters uncertaintymodeenabled="false"
numberofruns persimulation="0" numberofsimulations="0"/>
  <geographicoutputdetail description="LINK"/>

```

```

20433_i81_msats_2020_rates_cty_24h4s_excDiesP10 (moves runid=2).mrs
<outputemissionsbreakdownselection>
  <modelyear selected="false"/>
  <fueltype selected="false"/>
  <fuelsubtype selected="false"/>
  <emissionprocess selected="true"/>
  <onroadoffroad selected="true"/>
  <roadtype selected="true"/>
  <sourceusetype selected="true"/>
  <movesvehicletype selected="false"/>
  <onroadscc selected="false"/>
  <estimateuncertainty selected="false" numberOfIterations="2"
keepSampledData="false" keepIterations="false"/>
  <sector selected="false"/>
  <engtechid selected="false"/>
  <hpclass selected="false"/>
  <regclassid selected="false"/>
</outputemissionsbreakdownselection>
<outputdatabase servername="" databasename="20433_i81_meso_rates_output"
description=""/>
  <outputtimestep value="Hour"/>
  <outputvmtdata value="true"/>
  <outputsho value="false"/>
  <outputsh value="false"/>
  <outputshp value="false"/>
  <outputshidling value="true"/>
  <outputstarts value="true"/>
  <outputpopulation value="true"/>
  <scaleinputdatabase servername="localhost"
databasename="20433_i81_meso_2020_rates_input" description=""/>
  <pmsize value="0"/>
  <outputfactors>
    <timefactors selected="true" units="Hours"/>
    <distancefactors selected="true" units="Miles"/>
    <massfactors selected="true" units="Grams" energyunits="Million BTU"/>
  </outputfactors>
  <savedata>

  </savedata>

  <donotexecute>

  </donotexecute>

  <generatordatabase shouldsave="false" servername="" databasename=""
description=""/>
    <donotperformfinalaggregation selected="false"/>
    <lookupableflags scenarioid="ETCMSATsExDP10_24H4S" truncateoutput="true"
truncateactivity="true" truncatebaserates="true"/>
  </runspec>

```

```

20433_i81_msats_2020_rates_cty_24h4s_onlyDiesP10 (moves runid=3).mrs
<runspec version="MOVES2014a-20151028">
  <description><![CDATA[ETC MSATs Diesel PM10 only]]></description>
  <models>
    <model value="ONROAD"/>
  </models>
  <modelscale value="Rates"/>
  <modeldomain value="SINGLE"/>
  <geographicselections>
    <geographicselection type="COUNTY" key="36067" description="NEW YORK -
Onondaga County"/>
  </geographicselections>
  <timespan>
    <year key="2020"/>
    <month id="1"/>
    <month id="4"/>
    <month id="7"/>
    <month id="10"/>
    <day id="2"/>
    <day id="5"/>
    <beginhour id="1"/>
    <endhour id="24"/>
    <aggregateBy key="Hour"/>
  </timespan>
  <onroadvehicleselections>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="62" sourcetyponame="Combination Long-haul Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="61" sourcetyponame="Combination Short-haul Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="41" sourcetyponame="Intercity Bus"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="32" sourcetyponame="Light Commercial Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="54" sourcetyponame="Motor Home"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="21" sourcetyponame="Passenger Car"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="31" sourcetyponame="Passenger Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="51" sourcetyponame="Refuse Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="43" sourcetyponame="School Bus"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="53" sourcetyponame="Single Unit Long-haul Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="52" sourcetyponame="Single Unit Short-haul Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="42" sourcetyponame="Transit Bus"/>
  </onroadvehicleselections>
  <offroadvehicleselections>
  </offroadvehicleselections>
  <offroadvehiclesscgs>
  </offroadvehiclesscgs>
  <roadtypes separateramps="false">
    <roadtype roadtypeid="4" roadtyponame="Urban Restricted Access"
modelCombination="M1"/>
    <roadtype roadtypeid="5" roadtyponame="Urban Unrestricted Access"
modelCombination="M1"/>
  </roadtypes>
  <pollutantprocessassociations>
    <pollutantprocessassociation pollutantkey="118" pollutantname="Composite -
NonECPM" processkey="1" processname="Running Exhaust"/>
    <pollutantprocessassociation pollutantkey="118" pollutantname="Composite -
NonECPM" processkey="15" processname="Crankcase Running Exhaust"/>
    <pollutantprocessassociation pollutantkey="112" pollutantname="Elemental
Carbon" processkey="1" processname="Running Exhaust"/>

```



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20433_i81_msats_2020_rates_cty_24h4s_onlyDiesP10 (moves runid=3).mrs
  <pollutantprocessassociation pollutantkey="112" pollutantname="Elemental
Carbon" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="119" pollutantname="H2O
(aerosol)" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="119" pollutantname="H2O
(aerosol)" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="79" pollutantname="Non-Methane
Hydrocarbons" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="79" pollutantname="Non-Methane
Hydrocarbons" processkey="11" processname="Evap Permeation"/>
  <pollutantprocessassociation pollutantkey="79" pollutantname="Non-Methane
Hydrocarbons" processkey="13" processname="Evap Fuel Leaks"/>
  <pollutantprocessassociation pollutantkey="79" pollutantname="Non-Methane
Hydrocarbons" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="100" pollutantname="Primary
Exhaust PM10 - Total" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="100" pollutantname="Primary
Exhaust PM10 - Total" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="110" pollutantname="Primary
Exhaust PM2.5 - Total" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="110" pollutantname="Primary
Exhaust PM2.5 - Total" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="115" pollutantname="Sulfate
Particulate" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="115" pollutantname="Sulfate
Particulate" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="1" pollutantname="Total Gaseous
Hydrocarbons" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="1" pollutantname="Total Gaseous
Hydrocarbons" processkey="11" processname="Evap Permeation"/>
  <pollutantprocessassociation pollutantkey="1" pollutantname="Total Gaseous
Hydrocarbons" processkey="13" processname="Evap Fuel Leaks"/>
  <pollutantprocessassociation pollutantkey="1" pollutantname="Total Gaseous
Hydrocarbons" processkey="15" processname="Crankcase Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="87" pollutantname="Volatile
Organic Compounds" processkey="1" processname="Running Exhaust"/>
  <pollutantprocessassociation pollutantkey="87" pollutantname="Volatile
Organic Compounds" processkey="11" processname="Evap Permeation"/>
  <pollutantprocessassociation pollutantkey="87" pollutantname="Volatile
Organic Compounds" processkey="13" processname="Evap Fuel Leaks"/>
  <pollutantprocessassociation pollutantkey="87" pollutantname="Volatile
Organic Compounds" processkey="15" processname="Crankcase Running Exhaust"/>
</pollutantprocessassociations>
<databaseselections>
  <databaseselection servername="" databasename="moves2014_nylev"
description=""/>
</databaseselections>
<internalcontrolstrategies>
<internalcontrolstrategy
classname="gov.epa.otaq.moves.master.implementation.ghg.internalcontrolstrategies.rateofpr
ogress.RateOfProgressStrategy"><![CDATA[
useParameters    No

]]></internalcontrolstrategy>
  </internalcontrolstrategies>
  <inputdatabase servername="" databasename="" description=""/>
  <uncertaintyparameters uncertaintymodeenabled="false"
numberofruns persimulation="0" numberofsimulations="0"/>
  <geographicoutputdetail description="LINK"/>
  <outputemissionsbreakdownselection>
    <modelyear selected="false"/>
    <fueltype selected="false"/>
    <fuelsubtype selected="false"/>
    <emissionprocess selected="true"/>
    <onroadoffroad selected="true"/>
    <roadtype selected="true"/>

```

```

20433_i81_msats_2020_rates_cty_24h4s_onlyDiesP10 (moves runid=3).mrs
  <sourceusetype selected="true"/>
  <movesvehicletype selected="false"/>
  <onroadsc selected="false"/>
  <estimateuncertainty selected="false" numberOfIterations="2"
keepSampledData="false" keepIterations="false"/>
  <sector selected="false"/>
  <engtechid selected="false"/>
  <hpclass selected="false"/>
  <regclassid selected="false"/>
</outputemissionsbreakdownselection>
  <outputdatabase servername="" databasename="20433_i81_meso_rates_output"
description=""/>
  <outputtimestep value="Hour"/>
  <outputvmtdata value="true"/>
  <outputsho value="false"/>
  <outputsh value="false"/>
  <outputshp value="false"/>
  <outputshidling value="true"/>
  <outputstarts value="true"/>
  <outputpopulation value="true"/>
  <scaleinputdatabase servername="localhost"
databasename="20433_i81_meso_2020_rates_input" description=""/>
  <pmsize value="0"/>
  <outputfactors>
    <timefactors selected="true" units="Hours"/>
    <distancefactors selected="true" units="Miles"/>
    <massfactors selected="true" units="Grams" energyunits="Million BTU"/>
  </outputfactors>
  <savedata>

  </savedata>

  <donotexecute>

  </donotexecute>

  <generatordatabase shouldsave="false" servername="" databasename=""
description=""/>
    <donotperformfinalaggregation selected="false"/>
    <lookupableflags scenarioid="ETCMSATsDP10_24H4S" truncateoutput="true"
truncateactivity="true" truncatebaserates="true"/>
  </runspec>

```

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.0E+00	1.3E-02	9.1E-02	4.1E-01	1.6E+00	2.1E+00	4.2E+00	9.5E-01	9.6E-01	7.9E-01	2.0E+00	5.6E-01	8.4E-01
	2	5	2.5mph <= speed < 7.5mph	0.0E+00	7.8E-03	4.9E-02	2.2E-01	8.4E-01	1.2E+00	2.3E+00	5.0E-01	4.9E-01	4.0E-01	1.0E+00	3.0E-01	4.5E-01
	3	10	7.5mph <= speed < 12.5mph	0.0E+00	4.8E-03	2.8E-02	1.2E-01	5.0E-01	7.2E-01	1.4E+00	2.9E-01	2.7E-01	2.2E-01	5.6E-01	1.8E-01	2.7E-01
	4	15	12.5mph <= speed < 17.5mph	0.0E+00	3.3E-03	1.9E-02	9.1E-02	4.0E-01	5.8E-01	1.0E+00	2.5E-01	2.0E-01	1.6E-01	4.1E-01	1.5E-01	2.3E-01
	5	20	17.5mph <= speed < 22.5mph	0.0E+00	2.7E-03	1.4E-02	6.8E-02	3.5E-01	5.2E-01	8.8E-01	2.2E-01	1.7E-01	1.4E-01	3.3E-01	1.3E-01	2.1E-01
	6	25	22.5mph <= speed < 27.5mph	0.0E+00	2.7E-03	1.3E-02	5.9E-02	3.1E-01	4.6E-01	7.5E-01	2.0E-01	1.4E-01	1.2E-01	2.8E-01	1.2E-01	1.9E-01
	7	30	27.5mph <= speed < 32.5mph	0.0E+00	3.0E-03	1.2E-02	5.4E-02	2.9E-01	4.5E-01	6.8E-01	1.9E-01	1.3E-01	1.1E-01	2.5E-01	1.1E-01	1.8E-01
	8	35	32.5mph <= speed < 37.5mph	0.0E+00	3.6E-03	1.3E-02	5.1E-02	2.4E-01	3.7E-01	6.0E-01	1.5E-01	1.2E-01	9.7E-02	2.2E-01	9.1E-02	1.4E-01
	9	40	37.5mph <= speed < 42.5mph	0.0E+00	4.1E-03	1.3E-02	4.9E-02	2.2E-01	3.5E-01	5.5E-01	1.4E-01	1.1E-01	9.1E-02	2.0E-01	8.5E-02	1.3E-01
	10	45	42.5mph <= speed < 47.5mph	0.0E+00	4.4E-03	1.3E-02	4.8E-02	2.0E-01	3.3E-01	5.1E-01	1.4E-01	1.0E-01	8.6E-02	1.9E-01	8.0E-02	1.3E-01
	11	50	47.5mph <= speed < 52.5mph	0.0E+00	4.4E-03	1.3E-02	4.5E-02	1.9E-01	3.1E-01	4.8E-01	1.2E-01	9.5E-02	8.1E-02	1.8E-01	7.2E-02	1.1E-01
	12	55	52.5mph <= speed < 57.5mph	0.0E+00	4.1E-03	1.3E-02	4.3E-02	1.7E-01	2.8E-01	4.5E-01	1.0E-01	8.9E-02	7.6E-02	1.7E-01	6.3E-02	9.8E-02
	13	60	57.5mph <= speed < 62.5mph	0.0E+00	3.9E-03	1.2E-02	4.2E-02	1.6E-01	2.6E-01	4.1E-01	9.6E-02	8.2E-02	7.0E-02	1.6E-01	5.9E-02	9.0E-02
	14	65	62.5mph <= speed < 67.5mph	0.0E+00	3.9E-03	1.2E-02	4.2E-02	1.6E-01	2.6E-01	3.9E-01	9.5E-02	7.7E-02	6.6E-02	1.5E-01	5.9E-02	9.2E-02
	15	70	67.5mph <= speed < 72.5mph	0.0E+00	4.1E-03	1.2E-02	4.1E-02	1.5E-01	2.6E-01	3.7E-01	9.5E-02	7.3E-02	6.2E-02	1.4E-01	6.0E-02	9.3E-02
	16	75	72.5mph <= speed	0.0E+00	4.6E-03	1.2E-02	4.1E-02	1.5E-01	2.7E-01	3.5E-01	9.6E-02	7.0E-02	5.9E-02	1.4E-01	6.1E-02	9.7E-02

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.0E+00	1.3E-02	9.2E-02	4.1E-01	1.5E+00	2.0E+00	3.7E+00	7.7E-01	9.5E-01	7.9E-01	2.0E+00	5.6E-01	8.5E-01
	2	5	2.5mph <= speed < 7.5mph	0.0E+00	8.1E-03	4.9E-02	2.2E-01	8.4E-01	1.0E+00	1.7E+00	4.5E-01	4.8E-01	4.0E-01	1.0E+00	3.0E-01	4.5E-01
	3	10	7.5mph <= speed < 12.5mph	0.0E+00	5.5E-03	2.8E-02	1.2E-01	5.0E-01	5.7E-01	9.8E-01	2.9E-01	2.7E-01	2.1E-01	5.5E-01	1.8E-01	2.7E-01
	4	15	12.5mph <= speed < 17.5mph	0.0E+00	4.6E-03	2.1E-02	9.1E-02	4.1E-01	2.9E-01	4.9E-01	2.5E-01	2.0E-01	1.6E-01	4.0E-01	1.5E-01	2.4E-01
	5	20	17.5mph <= speed < 22.5mph	0.0E+00	4.0E-03	1.7E-02	7.4E-02	3.5E-01	2.9E-01	4.7E-01	2.2E-01	1.6E-01	1.3E-01	3.2E-01	1.3E-01	2.1E-01
	6	25	22.5mph <= speed < 27.5mph	0.0E+00	3.2E-03	1.4E-02	6.1E-02	3.2E-01	2.9E-01	4.6E-01	2.0E-01	1.4E-01	1.2E-01	2.6E-01	1.2E-01	1.9E-01
	7	30	27.5mph <= speed < 32.5mph	0.0E+00	3.0E-03	1.2E-02	5.2E-02	3.0E-01	2.8E-01	4.5E-01	1.9E-01	1.3E-01	1.0E-01	2.4E-01	1.2E-01	1.8E-01
	8	35	32.5mph <= speed < 37.5mph	0.0E+00	2.8E-03	1.1E-02	4.8E-02	2.4E-01	2.8E-01	4.1E-01	1.5E-01	1.1E-01	9.1E-02	2.1E-01	9.0E-02	1.4E-01
	9	40	37.5mph <= speed < 42.5mph	0.0E+00	2.7E-03	1.1E-02	4.5E-02	2.1E-01	2.8E-01	3.8E-01	1.3E-01	1.0E-01	8.4E-02	1.9E-01	8.3E-02	1.3E-01
	10	45	42.5mph <= speed < 47.5mph	0.0E+00	2.7E-03	1.0E-02	4.3E-02	1.9E-01	2.8E-01	3.5E-01	1.2E-01	9.3E-02	7.8E-02	1.8E-01	7.7E-02	1.2E-01
	11	50	47.5mph <= speed < 52.5mph	0.0E+00	2.7E-03	1.0E-02	4.2E-02	1.7E-01	2.6E-01	3.8E-01	1.1E-01	8.6E-02	7.2E-02	1.7E-01	6.8E-02	1.1E-01
	12	55	52.5mph <= speed < 57.5mph	0.0E+00	2.8E-03	1.0E-02	4.1E-02	1.6E-01	2.5E-01	4.1E-01	9.1E-02	8.1E-02	6.8E-02	1.6E-01	5.8E-02	8.9E-02
	13	60	57.5mph <= speed < 62.5mph	0.0E+00	2.8E-03	1.1E-02	4.1E-02	1.4E-01	2.3E-01	3.8E-01	8.3E-02	7.4E-02	6.2E-02	1.5E-01	5.3E-02	8.1E-02
	14	65	62.5mph <= speed < 67.5mph	0.0E+00	2.9E-03	1.1E-02	4.1E-02	1.4E-01	2.3E-01	3.5E-01	8.4E-02	7.0E-02	5.9E-02	1.4E-01	5.4E-02	8.3E-02
	15	70	67.5mph <= speed < 72.5mph	0.0E+00	3.2E-03	1.1E-02	4.0E-02	1.4E-01	2.3E-01	3.3E-01	8.5E-02	6.6E-02	5.5E-02	1.4E-01	5.5E-02	8.5E-02
	16	75	72.5mph <= speed	0.0E+00	3.9E-03	1.2E-02	4.0E-02	1.4E-01	2.4E-01	3.1E-01	8.8E-02	6.4E-02	5.3E-02	1.4E-01	5.7E-02	9.0E-02

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.5E-01	5.2E-03	4.8E-03	6.6E-03	2.5E-02	1.0E-01	7.8E-02	1.6E-02	4.2E-02	2.4E-02	2.3E-01	1.2E-02	1.4E-02
	2	5	2.5mph <= speed < 7.5mph	8.0E-02	2.9E-03	2.8E-03	3.9E-03	1.4E-02	5.9E-02	4.3E-02	9.0E-03	2.3E-02	1.3E-02	1.2E-01	6.6E-03	7.9E-03
	3	10	7.5mph <= speed < 12.5mph	4.3E-02	1.7E-03	1.8E-03	2.5E-03	7.2E-03	3.7E-02	2.4E-02	4.8E-03	1.3E-02	6.8E-03	7.1E-02	3.5E-03	4.2E-03
	4	15	12.5mph <= speed < 17.5mph	3.3E-02	1.3E-03	1.4E-03	2.0E-03	5.2E-03	2.9E-02	1.8E-02	3.2E-03	1.0E-02	5.1E-03	5.6E-02	2.4E-03	2.8E-03
	5	20	17.5mph <= speed < 22.5mph	2.7E-02	1.0E-03	1.2E-03	1.6E-03	4.1E-03	2.5E-02	1.5E-02	2.5E-03	8.3E-03	4.2E-03	4.8E-02	1.8E-03	2.1E-03
	6	25	22.5mph <= speed < 27.5mph	2.4E-02	9.1E-04	1.1E-03	1.4E-03	3.3E-03	2.2E-02	1.2E-02	2.1E-03	6.8E-03	3.5E-03	4.2E-02	1.5E-03	1.8E-03
	7	30	27.5mph <= speed < 32.5mph	2.1E-02	8.6E-04	1.1E-03	1.4E-03	2.9E-03	2.0E-02	1.1E-02	1.8E-03	6.1E-03	3.1E-03	3.8E-02	1.3E-03	1.5E-03
	8	35	32.5mph <= speed < 37.5mph	2.0E-02	8.9E-04	1.2E-03	1.4E-03	2.6E-03	1.6E-02	9.4E-03	1.6E-03	5.0E-03	2.7E-03	3.2E-02	1.2E-03	1.4E-03
	9	40	37.5mph <= speed < 42.5mph	1.9E-02	9.1E-04	1.3E-03	1.5E-03	2.4E-03	1.5E-02	8.5E-03	1.4E-03	4.3E-03	2.5E-03	2.8E-02	1.0E-03	1.3E-03
	10	45	42.5mph <= speed < 47.5mph	1.8E-02	9.2E-04	1.4E-03	1.5E-03	2.2E-03	1.4E-02	7.7E-03	1.3E-03	3.7E-03	2.3E-03	2.5E-02	9.4E-04	1.2E-03
	11	50	47.5mph <= speed < 52.5mph	1.8E-02	9.0E-04	1.4E-03	1.5E-03	2.0E-03	1.3E-02	7.0E-03	1.2E-03	3.2E-03	2.1E-03	2.1E-02	8.7E-04	1.1E-03
	12	55	52.5mph <= speed < 57.5mph	1.7E-02	8.6E-04	1.4E-03	1.5E-03	1.9E-03	1.2E-02	6.5E-03	1.1E-03	2.8E-03	1.9E-03	1.8E-02	8.1E-04	1.0E-03
	13	60	57.5mph <= speed < 62.5mph	1.7E-02	8.4E-04	1.4E-03	1.5E-03	1.8E-03	1.1E-02	5.9E-03	1.0E-03	2.4E-03	1.7E-03	1.6E-02	7.5E-04	9.4E-04
	14	65	62.5mph <= speed < 67.5mph	1.6E-02	8.7E-04	1.5E-03	1.5E-03	1.7E-03	1.1E-02	5.7E-03	9.5E-04	2.2E-03	1.6E-03	1.6E-02	6.9E-04	8.8E-04
	15	70	67.5mph <= speed < 72.5mph	1.6E-02	9.8E-04	1.7E-03	1.8E-03	1.6E-03	1.1E-02	5.5E-03	8.8E-04	2.1E-03	1.5E-03	1.6E-02	6.5E-04	8.3E-04
	16	75	72.5mph <= speed	1.5E-02	1.2E-03	2.0E-03	2.2E-03	1.5E-03	1.2E-02	5.3E-03	8.3E-04	2.0E-03	1.5E-03	1.7E-02	6.1E-04	7.9E-04

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.5E-01	5.2E-03	4.7E-03	6.5E-03	2.3E-02	9.9E-02	7.3E-02	1.2E-02	4.1E-02	2.4E-02	2.3E-01	1.2E-02	1.4E-02
	2	5	2.5mph <= speed < 7.5mph	8.0E-02	3.0E-03	2.9E-03	3.9E-03	1.3E-02	5.5E-02	3.6E-02	7.1E-03	2.3E-02	1.3E-02	1.2E-01	6.6E-03	7.9E-03
	3	10	7.5mph <= speed < 12.5mph	4.5E-02	1.8E-03	2.0E-03	2.6E-03	7.0E-03	2.9E-02	1.9E-02	4.6E-03	1.3E-02	6.8E-03	7.0E-02	3.5E-03	4.2E-03
	4	15	12.5mph <= speed < 17.5mph	3.3E-02	1.4E-03	1.7E-03	2.2E-03	5.2E-03	1.6E-02	1.1E-02	3.2E-03	9.7E-03	5.0E-03	5.4E-02	2.3E-03	2.8E-03
	5	20	17.5mph <= speed < 22.5mph	2.7E-02	1.2E-03	1.5E-03	1.9E-03	4.0E-03	1.5E-02	9.5E-03	2.4E-03	7.7E-03	4.0E-03	4.4E-02	1.8E-03	2.1E-03
	6	25	22.5mph <= speed < 27.5mph	2.3E-02	1.1E-03	1.3E-03	1.7E-03	3.3E-03	1.5E-02	8.7E-03	2.1E-03	6.0E-03	3.3E-03	3.6E-02	1.5E-03	1.8E-03
	7	30	27.5mph <= speed < 32.5mph	2.1E-02	9.5E-04	1.2E-03	1.6E-03	2.8E-03	1.5E-02	8.2E-03	1.8E-03	5.3E-03	2.9E-03	3.2E-02	1.3E-03	1.5E-03
	8	35	32.5mph <= speed < 37.5mph	2.0E-02	8.5E-04	1.1E-03	1.4E-03	2.6E-03	1.3E-02	7.2E-03	1.6E-03	4.2E-03	2.5E-03	2.5E-02	1.2E-03	1.4E-03
	9	40	37.5mph <= speed < 42.5mph	1.9E-02	7.8E-04	1.1E-03	1.3E-03	2.4E-03	1.2E-02	6.6E-03	1.4E-03	3.5E-03	2.3E-03	2.1E-02	1.0E-03	1.3E-03
	10	45	42.5mph <= speed < 47.5mph	1.8E-02	7.3E-04	1.1E-03	1.2E-03	2.2E-03	1.1E-02	6.0E-03	1.3E-03	3.0E-03	2.0E-03	1.8E-02	9.4E-04	1.2E-03
	11	50	47.5mph <= speed < 52.5mph	1.7E-02	7.1E-04	1.0E-03	1.2E-03	2.1E-03	1.1E-02	6.0E-03	1.2E-03	2.5E-03	1.8E-03	1.5E-02	8.7E-04	1.1E-03
	12	55	52.5mph <= speed < 57.5mph	1.7E-02	7.0E-04	1.0E-03	1.2E-03	1.9E-03	1.0E-02	6.0E-03	1.1E-03	2.1E-03	1.7E-03	1.3E-02	8.1E-04	1.0E-03
	13	60	57.5mph <= speed < 62.5mph	1.7E-02	7.1E-04	1.1E-03	1.2E-03	1.8E-03	9.7E-03	5.5E-03	1.0E-03	1.8E-03	1.5E-03	1.1E-02	7.5E-04	9.5E-04
	14	65	62.5mph <= speed < 67.5mph	1.6E-02	7.4E-04	1.2E-03	1.3E-03	1.7E-03	9.9E-03	5.3E-03	9.4E-04	1.7E-03	1.4E-03	1.1E-02	7.0E-04	8.8E-04
	15	70	67.5mph <= speed < 72.5mph	1.6E-02	8.6E-04	1.5E-03	1.6E-03	1.6E-03	1.0E-02	5.1E-03	8.7E-04	1.6E-03	1.4E-03	1.2E-02	6.5E-04	8.3E-04
	16	75	72.5mph <= speed	1.6E-02	1.1E-03	1.9E-03	2.1E-03	1.5E-03	1.1E-02	5.0E-03	8.2E-04	1.6E-03	1.3E-03	1.3E-02	6.1E-04	7.9E-04

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	5.9E-02	1.8E-03	3.0E-03	9.6E-03	2.9E-01	8.0E-01	6.4E-01	2.0E-01	1.7E-01	2.1E-01	1.8E-01	1.6E-01	1.8E-01
	2	5	2.5mph <= speed < 7.5mph	3.1E-02	1.0E-03	1.7E-03	5.2E-03	1.6E-01	4.6E-01	3.5E-01	1.2E-01	9.2E-02	1.1E-01	9.8E-02	9.1E-02	1.0E-01
	3	10	7.5mph <= speed < 12.5mph	1.7E-02	6.2E-04	1.1E-03	3.0E-03	8.4E-02	2.8E-01	1.9E-01	6.2E-02	4.9E-02	5.8E-02	5.4E-02	4.9E-02	5.5E-02
	4	15	12.5mph <= speed < 17.5mph	1.3E-02	4.6E-04	8.1E-04	2.3E-03	6.0E-02	2.2E-01	1.4E-01	4.2E-02	3.5E-02	4.2E-02	4.1E-02	3.3E-02	3.7E-02
	5	20	17.5mph <= speed < 22.5mph	1.1E-02	3.7E-04	6.7E-04	1.8E-03	4.7E-02	1.8E-01	1.1E-01	3.1E-02	2.8E-02	3.3E-02	3.4E-02	2.5E-02	2.8E-02
	6	25	22.5mph <= speed < 27.5mph	9.1E-03	3.3E-04	6.0E-04	1.6E-03	3.8E-02	1.6E-01	9.2E-02	2.6E-02	2.3E-02	2.7E-02	2.8E-02	2.1E-02	2.4E-02
	7	30	27.5mph <= speed < 32.5mph	8.2E-03	3.2E-04	5.8E-04	1.4E-03	3.3E-02	1.5E-01	8.0E-02	2.2E-02	2.0E-02	2.4E-02	2.5E-02	1.8E-02	2.0E-02
	8	35	32.5mph <= speed < 37.5mph	7.7E-03	3.4E-04	6.4E-04	1.4E-03	3.0E-02	1.2E-01	7.1E-02	2.0E-02	1.8E-02	2.1E-02	2.2E-02	1.6E-02	1.8E-02
	9	40	37.5mph <= speed < 42.5mph	7.4E-03	3.5E-04	6.7E-04	1.4E-03	2.7E-02	1.1E-01	6.4E-02	1.8E-02	1.6E-02	1.9E-02	1.9E-02	1.4E-02	1.6E-02
	10	45	42.5mph <= speed < 47.5mph	7.1E-03	3.6E-04	6.9E-04	1.4E-03	2.5E-02	1.0E-01	5.9E-02	1.6E-02	1.5E-02	1.8E-02	1.7E-02	1.3E-02	1.5E-02
	11	50	47.5mph <= speed < 52.5mph	6.8E-03	3.5E-04	6.9E-04	1.3E-03	2.3E-02	9.4E-02	5.4E-02	1.5E-02	1.3E-02	1.6E-02	1.6E-02	1.2E-02	1.4E-02
	12	55	52.5mph <= speed < 57.5mph	6.6E-03	3.3E-04	6.7E-04	1.3E-03	2.2E-02	8.8E-02	5.0E-02	1.4E-02	1.2E-02	1.5E-02	1.4E-02	1.1E-02	1.3E-02
	13	60	57.5mph <= speed < 62.5mph	6.4E-03	3.3E-04	6.6E-04	1.2E-03	2.0E-02	8.2E-02	4.6E-02	1.3E-02	1.1E-02	1.4E-02	1.2E-02	1.0E-02	1.2E-02
	14	65	62.5mph <= speed < 67.5mph	6.3E-03	3.4E-04	7.0E-04	1.2E-03	1.9E-02	8.3E-02	4.3E-02	1.2E-02	1.1E-02	1.3E-02	1.2E-02	9.4E-03	1.1E-02
	15	70	67.5mph <= speed < 72.5mph	6.1E-03	3.8E-04	8.0E-04	1.4E-03	1.8E-02	8.3E-02	4.0E-02	1.1E-02	9.8E-03	1.2E-02	1.2E-02	8.7E-03	1.0E-02
	16	75	72.5mph <= speed	5.9E-03	4.6E-04	9.3E-04	1.5E-03	1.7E-02	8.5E-02	3.8E-02	1.0E-02	9.1E-03	1.1E-02	1.1E-02	8.2E-03	9.9E-03

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	5.9E-02	1.8E-03	2.9E-03	9.6E-03	2.7E-01	7.8E-01	5.9E-01	1.6E-01	1.7E-01	2.1E-01	1.8E-01	1.6E-01	1.8E-01
	2	5	2.5mph <= speed < 7.5mph	3.1E-02	1.0E-03	1.7E-03	5.2E-03	1.6E-01	4.2E-01	2.9E-01	9.1E-02	9.2E-02	1.1E-01	9.7E-02	9.1E-02	1.0E-01
	3	10	7.5mph <= speed < 12.5mph	1.7E-02	6.6E-04	1.1E-03	3.1E-03	8.1E-02	2.2E-01	1.6E-01	5.9E-02	4.9E-02	5.8E-02	5.3E-02	4.8E-02	5.5E-02
	4	15	12.5mph <= speed < 17.5mph	1.3E-02	5.3E-04	9.1E-04	2.3E-03	6.0E-02	1.3E-01	9.0E-02	4.1E-02	3.5E-02	4.2E-02	4.0E-02	3.2E-02	3.7E-02
	5	20	17.5mph <= speed < 22.5mph	1.0E-02	4.6E-04	8.0E-04	2.0E-03	4.7E-02	1.2E-01	7.5E-02	3.1E-02	2.8E-02	3.3E-02	3.2E-02	2.4E-02	2.8E-02
	6	25	22.5mph <= speed < 27.5mph	9.0E-03	3.9E-04	7.0E-04	1.7E-03	3.8E-02	1.1E-01	6.7E-02	2.6E-02	2.2E-02	2.7E-02	2.6E-02	2.1E-02	2.3E-02
	7	30	27.5mph <= speed < 32.5mph	8.1E-03	3.6E-04	6.4E-04	1.5E-03	3.3E-02	1.1E-01	6.1E-02	2.2E-02	1.9E-02	2.3E-02	2.3E-02	1.8E-02	2.0E-02
	8	35	32.5mph <= speed < 37.5mph	7.6E-03	3.2E-04	6.0E-04	1.4E-03	3.0E-02	9.7E-02	5.5E-02	2.0E-02	1.7E-02	2.1E-02	1.9E-02	1.6E-02	1.8E-02
	9	40	37.5mph <= speed < 42.5mph	7.2E-03	2.9E-04	5.7E-04	1.3E-03	2.7E-02	9.0E-02	5.0E-02	1.8E-02	1.6E-02	1.9E-02	1.7E-02	1.4E-02	1.6E-02
	10	45	42.5mph <= speed < 47.5mph	6.9E-03	2.8E-04	5.4E-04	1.2E-03	2.5E-02	8.4E-02	4.6E-02	1.6E-02	1.4E-02	1.8E-02	1.5E-02	1.3E-02	1.5E-02
	11	50	47.5mph <= speed < 52.5mph	6.7E-03	2.7E-04	5.3E-04	1.2E-03	2.4E-02	8.1E-02	4.8E-02	1.5E-02	1.3E-02	1.6E-02	1.3E-02	1.2E-02	1.4E-02
	12	55	52.5mph <= speed < 57.5mph	6.5E-03	2.7E-04	5.3E-04	1.1E-03	2.2E-02	7.9E-02	4.9E-02	1.4E-02	1.2E-02	1.5E-02	1.2E-02	1.1E-02	1.3E-02
	13	60	57.5mph <= speed < 62.5mph	6.4E-03	2.7E-04	5.5E-04	1.1E-03	2.0E-02	7.4E-02	4.6E-02	1.3E-02	1.1E-02	1.4E-02	1.0E-02	1.0E-02	1.2E-02
	14	65	62.5mph <= speed < 67.5mph	6.3E-03	2.9E-04	5.9E-04	1.2E-03	1.9E-02	7.5E-02	4.3E-02	1.2E-02	1.0E-02	1.3E-02	1.0E-02	9.4E-03	1.1E-02
	15	70	67.5mph <= speed < 72.5mph	6.2E-03	3.4E-04	7.2E-04	1.3E-03	1.8E-02	7.6E-02	4.0E-02	1.1E-02	9.6E-03	1.2E-02	1.0E-02	8.7E-03	1.0E-02
	16	75	72.5mph <= speed	6.0E-03	4.2E-04	8.8E-04	1.5E-03	1.7E-02	7.9E-02	3.8E-02	1.0E-02	8.9E-03	1.1E-02	9.9E-03	8.2E-03	9.9E-03

Urban Restricted	avgSpeedBinID	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61
	1	2.5	0	speed < 2.5mph	2.6E-03	5.7E-04	4.5E-04	6.4E-04	7.3E-03	2.1E-02	2.3E-02	3.8E-03	4.0E-03	5.1E-03	2.1E-02	2.3E-03
	2	5	2.5	2.5mph <= speed < 7.5mph	1.4E-03	3.1E-04	2.5E-04	3.5E-04	4.0E-03	1.2E-02	1.3E-02	2.1E-03	2.1E-03	2.8E-03	1.1E-02	1.3E-03
	3	10	7.5	7.5mph <= speed < 12.5mph	7.3E-04	1.7E-04	1.5E-04	2.0E-04	2.1E-03	6.8E-03	7.1E-03	1.1E-03	1.2E-03	1.5E-03	6.3E-03	6.9E-04
	4	15	12.5	12.5mph <= speed < 17.5mph	5.6E-04	1.3E-04	1.2E-04	1.6E-04	1.5E-03	5.2E-03	5.2E-03	7.7E-04	8.4E-04	1.1E-03	5.0E-03	4.7E-04
	5	20	17.5	17.5mph <= speed < 22.5mph	4.6E-04	9.8E-05	9.2E-05	1.2E-04	1.2E-03	4.4E-03	4.2E-03	5.8E-04	6.8E-04	8.8E-04	4.4E-03	3.6E-04
	6	25	22.5	22.5mph <= speed < 27.5mph	4.0E-04	8.4E-05	7.9E-05	1.1E-04	9.9E-04	3.8E-03	3.5E-03	4.9E-04	5.6E-04	7.4E-04	3.8E-03	3.0E-04
	7	30	27.5	27.5mph <= speed < 32.5mph	3.6E-04	7.5E-05	7.2E-05	9.5E-05	8.6E-04	3.5E-03	3.1E-03	4.2E-04	4.9E-04	6.5E-04	3.6E-03	2.6E-04
	8	35	32.5	32.5mph <= speed < 37.5mph	3.4E-04	7.2E-05	7.0E-05	8.9E-05	7.9E-04	3.0E-03	2.7E-03	3.8E-04	4.4E-04	5.8E-04	3.0E-03	2.3E-04
	9	40	37.5	37.5mph <= speed < 42.5mph	3.2E-04	6.9E-05	6.7E-05	8.4E-05	7.2E-04	2.7E-03	2.5E-03	3.4E-04	4.0E-04	5.3E-04	2.7E-03	2.1E-04
	10	45	42.5	42.5mph <= speed < 47.5mph	3.1E-04	6.7E-05	6.5E-05	8.1E-05	6.7E-04	2.6E-03	2.2E-03	3.1E-04	3.6E-04	4.8E-04	2.5E-03	1.9E-04
	11	50	47.5	47.5mph <= speed < 52.5mph	3.0E-04	6.3E-05	6.3E-05	7.7E-05	6.3E-04	2.4E-03	2.1E-03	2.9E-04	3.3E-04	4.4E-04	2.2E-03	1.8E-04
	12	55	52.5	52.5mph <= speed < 57.5mph	2.9E-04	6.0E-05	5.9E-05	7.2E-05	5.9E-04	2.3E-03	1.9E-03	2.7E-04	3.1E-04	4.1E-04	2.0E-03	1.7E-04
	13	60	57.5	57.5mph <= speed < 62.5mph	2.8E-04	5.8E-05	5.7E-05	7.0E-05	5.5E-04	2.1E-03	1.8E-03	2.5E-04	2.9E-04	3.8E-04	1.8E-03	1.6E-04
	14	65	62.5	62.5mph <= speed < 67.5mph	2.8E-04	5.7E-05	5.8E-05	6.9E-05	5.2E-04	2.1E-03	1.7E-03	2.3E-04	2.7E-04	3.5E-04	1.8E-03	1.5E-04
	15	70	67.5	67.5mph <= speed < 72.5mph	2.7E-04	6.1E-05	6.2E-05	7.3E-05	4.9E-04	2.1E-03	1.6E-03	2.2E-04	2.5E-04	3.3E-04	1.9E-03	1.4E-04
	16	75	72.5	72.5mph <= speed	2.6E-04	6.9E-05	6.9E-05	8.0E-05	4.7E-04	2.2E-03	1.5E-03	2.0E-04	2.4E-04	3.1E-04	1.9E-03	1.3E-04

Urban Unrestricted	avgSpeedBinID	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61
	1	2.5	0	speed < 2.5mph	2.6E-03	5.7E-04	4.5E-04	6.4E-04	6.8E-03	2.0E-02	2.2E-02	2.9E-03	3.9E-03	5.1E-03	2.1E-02	2.3E-03
	2	5	2.5	2.5mph <= speed < 7.5mph	1.4E-03	3.1E-04	2.5E-04	3.5E-04	3.9E-03	1.1E-02	1.1E-02	1.7E-03	2.1E-03	2.7E-03	1.1E-02	1.3E-03
	3	10	7.5	7.5mph <= speed < 12.5mph	7.6E-04	1.7E-04	1.5E-04	2.0E-04	2.1E-03	5.6E-03	5.8E-03	1.1E-03	1.1E-03	1.5E-03	6.3E-03	6.9E-04
	4	15	12.5	12.5mph <= speed < 17.5mph	5.6E-04	1.3E-04	1.2E-04	1.5E-04	1.5E-03	3.2E-03	3.3E-03	7.6E-04	8.4E-04	1.1E-03	4.9E-03	4.7E-04
	5	20	17.5	17.5mph <= speed < 22.5mph	4.6E-04	1.1E-04	9.8E-05	1.3E-04	1.2E-03	2.9E-03	2.8E-03	5.8E-04	6.7E-04	8.6E-04	4.1E-03	3.5E-04
	6	25	22.5	22.5mph <= speed < 27.5mph	4.0E-04	9.1E-05	8.5E-05	1.1E-04	9.9E-04	2.7E-03	2.5E-03	4.9E-04	5.5E-04	7.2E-04	3.4E-03	3.0E-04
	7	30	27.5	27.5mph <= speed < 32.5mph	3.5E-04	7.9E-05	7.4E-05	9.7E-05	8.6E-04	2.5E-03	2.3E-03	4.2E-04	4.8E-04	6.3E-04	3.1E-03	2.6E-04
	8	35	32.5	32.5mph <= speed < 37.5mph	3.3E-04	7.0E-05	6.7E-05	8.7E-05	7.9E-04	2.3E-03	2.1E-03	3.8E-04	4.3E-04	5.5E-04	2.5E-03	2.3E-04
	9	40	37.5	37.5mph <= speed < 42.5mph	3.2E-04	6.3E-05	6.2E-05	8.1E-05	7.2E-04	2.1E-03	1.9E-03	3.4E-04	3.8E-04	5.0E-04	2.2E-03	2.1E-04
	10	45	42.5	42.5mph <= speed < 47.5mph	3.0E-04	5.8E-05	5.8E-05	7.5E-05	6.7E-04	2.0E-03	1.8E-03	3.1E-04	3.5E-04	4.5E-04	1.9E-03	1.9E-04
	11	50	47.5	47.5mph <= speed < 52.5mph	2.9E-04	5.5E-05	5.5E-05	7.1E-05	6.3E-04	2.1E-03	1.8E-03	2.9E-04	3.2E-04	4.1E-04	1.7E-03	1.8E-04
	12	55	52.5	52.5mph <= speed < 57.5mph	2.9E-04	5.3E-05	5.3E-05	6.8E-05	5.9E-04	2.1E-03	1.8E-03	2.7E-04	3.0E-04	3.8E-04	1.5E-03	1.7E-04
	13	60	57.5	57.5mph <= speed < 62.5mph	2.8E-04	5.2E-05	5.2E-05	6.6E-05	5.6E-04	2.0E-03	1.7E-03	2.5E-04	2.7E-04	3.5E-04	1.3E-03	1.6E-04
	14	65	62.5	62.5mph <= speed < 67.5mph	2.8E-04	5.2E-05	5.3E-05	6.7E-05	5.2E-04	2.0E-03	1.6E-03	2.3E-04	2.6E-04	3.2E-04	1.4E-03	1.5E-04
	15	70	67.5	67.5mph <= speed < 72.5mph	2.7E-04	5.6E-05	5.8E-05	7.0E-05	4.9E-04	2.0E-03	1.5E-03	2.1E-04	2.4E-04	3.1E-04	1.5E-03	1.4E-04
	16	75	72.5	72.5mph <= speed	2.6E-04	6.5E-05	6.6E-05	7.8E-05	4.7E-04	2.1E-03	1.5E-03	2.0E-04	2.3E-04	2.9E-04	1.6E-03	1.3E-04

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.5E-03	9.3E-05	1.7E-04	6.6E-04	2.0E-02	3.3E-02	5.1E-02	1.3E-02	1.1E-02	1.3E-02	1.1E-02	9.3E-03	1.1E-02
	2	5	2.5mph <= speed < 7.5mph	1.3E-03	5.3E-05	9.8E-05	3.5E-04	1.1E-02	1.8E-02	2.8E-02	7.3E-03	6.1E-03	7.2E-03	6.2E-03	5.3E-03	6.4E-03
	3	10	7.5mph <= speed < 12.5mph	7.1E-04	3.1E-05	6.0E-05	2.0E-04	6.0E-03	9.5E-03	1.5E-02	3.9E-03	3.2E-03	3.8E-03	3.4E-03	2.8E-03	3.4E-03
	4	15	12.5mph <= speed < 17.5mph	5.4E-04	2.3E-05	4.6E-05	1.5E-04	4.3E-03	6.9E-03	1.1E-02	2.6E-03	2.3E-03	2.7E-03	2.5E-03	1.9E-03	2.3E-03
	5	20	17.5mph <= speed < 22.5mph	4.5E-04	1.9E-05	3.8E-05	1.2E-04	3.4E-03	5.5E-03	9.0E-03	2.0E-03	1.8E-03	2.2E-03	2.1E-03	1.4E-03	1.7E-03
	6	25	22.5mph <= speed < 27.5mph	3.9E-04	1.7E-05	3.3E-05	1.0E-04	2.7E-03	4.5E-03	7.5E-03	1.7E-03	1.5E-03	1.8E-03	1.8E-03	1.2E-03	1.5E-03
	7	30	27.5mph <= speed < 32.5mph	3.5E-04	1.6E-05	3.2E-05	9.2E-05	2.4E-03	4.0E-03	6.5E-03	1.4E-03	1.3E-03	1.5E-03	1.6E-03	1.0E-03	1.3E-03
	8	35	32.5mph <= speed < 37.5mph	3.3E-04	1.6E-05	3.4E-05	8.8E-05	2.2E-03	3.7E-03	5.7E-03	1.3E-03	1.2E-03	1.4E-03	1.3E-03	9.3E-04	1.1E-03
	9	40	37.5mph <= speed < 42.5mph	3.1E-04	1.7E-05	3.5E-05	8.5E-05	2.0E-03	3.4E-03	5.2E-03	1.1E-03	1.1E-03	1.3E-03	1.2E-03	8.3E-04	1.0E-03
	10	45	42.5mph <= speed < 47.5mph	3.0E-04	1.7E-05	3.6E-05	8.2E-05	1.8E-03	3.3E-03	4.8E-03	1.0E-03	9.7E-04	1.2E-03	1.1E-03	7.6E-04	9.4E-04
	11	50	47.5mph <= speed < 52.5mph	2.9E-04	1.7E-05	3.5E-05	7.9E-05	1.7E-03	3.1E-03	4.4E-03	9.6E-04	8.9E-04	1.1E-03	9.8E-04	7.0E-04	8.8E-04
	12	55	52.5mph <= speed < 57.5mph	2.8E-04	1.6E-05	3.4E-05	7.5E-05	1.6E-03	3.0E-03	4.1E-03	8.9E-04	8.3E-04	1.0E-03	8.9E-04	6.5E-04	8.2E-04
	13	60	57.5mph <= speed < 62.5mph	2.7E-04	1.6E-05	3.3E-05	7.3E-05	1.5E-03	2.9E-03	3.7E-03	8.2E-04	7.6E-04	9.2E-04	8.0E-04	6.1E-04	7.7E-04
	14	65	62.5mph <= speed < 67.5mph	2.7E-04	1.6E-05	3.5E-05	7.3E-05	1.4E-03	2.8E-03	3.5E-03	7.6E-04	7.1E-04	8.5E-04	7.6E-04	5.6E-04	7.2E-04
	15	70	67.5mph <= speed < 72.5mph	2.6E-04	1.8E-05	4.0E-05	7.8E-05	1.3E-03	2.7E-03	3.3E-03	7.1E-04	6.6E-04	7.9E-04	7.3E-04	5.2E-04	6.8E-04
	16	75	72.5mph <= speed	2.5E-04	2.1E-05	4.6E-05	8.5E-05	1.3E-03	2.6E-03	3.1E-03	6.7E-04	6.1E-04	7.4E-04	7.1E-04	5.0E-04	6.5E-04

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.5E-03	9.3E-05	1.7E-04	6.5E-04	1.9E-02	3.1E-02	4.8E-02	9.8E-03	1.1E-02	1.3E-02	1.1E-02	9.3E-03	1.1E-02
	2	5	2.5mph <= speed < 7.5mph	1.3E-03	5.3E-05	9.8E-05	3.5E-04	1.1E-02	1.5E-02	2.3E-02	5.7E-03	6.0E-03	7.2E-03	6.1E-03	5.3E-03	6.4E-03
	3	10	7.5mph <= speed < 12.5mph	7.4E-04	3.3E-05	6.2E-05	2.0E-04	5.8E-03	8.2E-03	1.3E-02	3.7E-03	3.2E-03	3.8E-03	3.3E-03	2.8E-03	3.4E-03
	4	15	12.5mph <= speed < 17.5mph	5.4E-04	2.6E-05	5.0E-05	1.5E-04	4.3E-03	4.8E-03	7.3E-03	2.6E-03	2.3E-03	2.7E-03	2.5E-03	1.9E-03	2.3E-03
	5	20	17.5mph <= speed < 22.5mph	4.4E-04	2.2E-05	4.3E-05	1.2E-04	3.4E-03	4.0E-03	6.1E-03	2.0E-03	1.8E-03	2.1E-03	2.0E-03	1.4E-03	1.7E-03
	6	25	22.5mph <= speed < 27.5mph	3.8E-04	1.9E-05	3.8E-05	1.1E-04	2.7E-03	3.5E-03	5.4E-03	1.7E-03	1.5E-03	1.8E-03	1.6E-03	1.2E-03	1.5E-03
	7	30	27.5mph <= speed < 32.5mph	3.5E-04	1.7E-05	3.4E-05	9.4E-05	2.4E-03	3.1E-03	4.9E-03	1.4E-03	1.3E-03	1.5E-03	1.4E-03	1.0E-03	1.3E-03
	8	35	32.5mph <= speed < 37.5mph	3.2E-04	1.6E-05	3.2E-05	8.6E-05	2.2E-03	2.8E-03	4.4E-03	1.3E-03	1.2E-03	1.4E-03	1.2E-03	9.3E-04	1.1E-03
	9	40	37.5mph <= speed < 42.5mph	3.1E-04	1.4E-05	3.0E-05	8.0E-05	2.0E-03	2.5E-03	4.0E-03	1.1E-03	1.0E-03	1.3E-03	1.1E-03	8.4E-04	1.0E-03
	10	45	42.5mph <= speed < 47.5mph	3.0E-04	1.3E-05	2.9E-05	7.6E-05	1.8E-03	2.3E-03	3.7E-03	1.0E-03	9.6E-04	1.2E-03	9.7E-04	7.6E-04	9.5E-04
	11	50	47.5mph <= speed < 52.5mph	2.9E-04	1.3E-05	2.8E-05	7.2E-05	1.7E-03	2.7E-03	3.9E-03	9.6E-04	8.8E-04	1.1E-03	8.7E-04	7.1E-04	8.8E-04
	12	55	52.5mph <= speed < 57.5mph	2.8E-04	1.3E-05	2.8E-05	6.9E-05	1.6E-03	3.0E-03	4.0E-03	8.9E-04	8.1E-04	9.9E-04	7.8E-04	6.6E-04	8.3E-04
	13	60	57.5mph <= speed < 62.5mph	2.7E-04	1.3E-05	2.8E-05	6.8E-05	1.5E-03	2.8E-03	3.7E-03	8.2E-04	7.5E-04	9.2E-04	7.1E-04	6.1E-04	7.7E-04
	14	65	62.5mph <= speed < 67.5mph	2.7E-04	1.4E-05	3.0E-05	6.9E-05	1.4E-03	2.7E-03	3.5E-03	7.6E-04	7.0E-04	8.5E-04	6.8E-04	5.6E-04	7.2E-04
	15	70	67.5mph <= speed < 72.5mph	2.6E-04	1.6E-05	3.6E-05	7.4E-05	1.3E-03	2.6E-03	3.2E-03	7.1E-04	6.5E-04	7.9E-04	6.6E-04	5.2E-04	6.8E-04
	16	75	72.5mph <= speed	2.6E-04	2.0E-05	4.3E-05	8.2E-05	1.3E-03	2.6E-03	3.0E-03	6.6E-04	6.0E-04	7.3E-04	6.4E-04	4.9E-04	6.5E-04

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.8E-06	1.2E-06	7.5E-07	8.1E-07	0.0E+00	2.2E-06	6.3E-07	4.9E-09	7.9E-07	2.8E-07	7.6E-06	3.5E-10	0.0E+00
	2	5	2.5mph <= speed < 7.5mph	1.7E-06	7.4E-07	5.0E-07	5.5E-07	0.0E+00	1.3E-06	3.4E-07	3.3E-09	4.1E-07	1.5E-07	4.2E-06	2.7E-10	0.0E+00
	3	10	7.5mph <= speed < 12.5mph	1.1E-06	4.7E-07	3.5E-07	3.8E-07	0.0E+00	1.3E-06	2.1E-07	2.4E-09	2.3E-07	8.1E-08	2.4E-06	1.8E-10	0.0E+00
	4	15	12.5mph <= speed < 17.5mph	7.1E-07	3.2E-07	2.5E-07	2.8E-07	0.0E+00	1.1E-06	1.6E-07	6.6E-09	1.8E-07	6.2E-08	1.9E-06	2.7E-10	0.0E+00
	5	20	17.5mph <= speed < 22.5mph	7.8E-07	2.6E-07	2.2E-07	2.3E-07	0.0E+00	1.4E-06	1.5E-07	4.2E-09	1.6E-07	5.8E-08	1.7E-06	1.6E-10	0.0E+00
	6	25	22.5mph <= speed < 27.5mph	8.2E-07	2.7E-07	2.4E-07	2.5E-07	0.0E+00	1.4E-06	1.5E-07	5.3E-09	1.5E-07	5.7E-08	1.6E-06	1.8E-10	0.0E+00
	7	30	27.5mph <= speed < 32.5mph	1.1E-06	3.2E-07	2.8E-07	3.0E-07	0.0E+00	2.8E-06	2.5E-07	6.6E-09	2.4E-07	1.1E-07	3.0E-06	2.0E-10	0.0E+00
	8	35	32.5mph <= speed < 37.5mph	1.6E-06	4.3E-07	3.9E-07	3.7E-07	0.0E+00	2.6E-06	3.6E-07	4.2E-09	3.8E-07	2.2E-07	5.4E-06	1.1E-10	0.0E+00
	9	40	37.5mph <= speed < 42.5mph	1.8E-06	5.1E-07	4.6E-07	4.5E-07	0.0E+00	3.7E-06	6.2E-07	5.8E-09	6.0E-07	3.9E-07	8.9E-06	1.4E-10	0.0E+00
	10	45	42.5mph <= speed < 47.5mph	2.0E-06	5.6E-07	5.1E-07	5.0E-07	0.0E+00	4.4E-06	7.8E-07	7.5E-09	7.9E-07	5.3E-07	1.1E-05	1.6E-10	0.0E+00
	11	50	47.5mph <= speed < 52.5mph	2.0E-06	5.6E-07	5.2E-07	5.0E-07	0.0E+00	4.9E-06	9.0E-07	7.7E-09	8.7E-07	5.8E-07	1.2E-05	1.6E-10	0.0E+00
	12	55	52.5mph <= speed < 57.5mph	1.8E-06	5.2E-07	4.8E-07	4.8E-07	0.0E+00	5.3E-06	9.9E-07	7.1E-09	8.5E-07	5.6E-07	1.2E-05	1.5E-10	0.0E+00
	13	60	57.5mph <= speed < 62.5mph	1.7E-06	4.9E-07	4.5E-07	4.6E-07	0.0E+00	5.6E-06	1.0E-06	6.8E-09	8.0E-07	5.2E-07	1.0E-05	1.5E-10	0.0E+00
	14	65	62.5mph <= speed < 67.5mph	1.6E-06	4.9E-07	4.4E-07	4.5E-07	0.0E+00	6.3E-06	1.1E-06	7.2E-09	7.5E-07	4.8E-07	9.9E-06	1.7E-10	0.0E+00
	15	70	67.5mph <= speed < 72.5mph	1.5E-06	5.1E-07	4.5E-07	4.8E-07	0.0E+00	6.7E-06	1.1E-06	7.6E-09	7.1E-07	4.5E-07	9.6E-06	1.8E-10	0.0E+00
	16	75	72.5mph <= speed	1.5E-06	5.7E-07	4.8E-07	5.2E-07	0.0E+00	7.6E-06	1.1E-06	8.2E-09	7.0E-07	4.3E-07	9.5E-06	2.1E-10	0.0E+00

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.8E-06	1.2E-06	7.4E-07	8.1E-07	0.0E+00	3.7E-06	6.0E-07	3.5E-09	7.9E-07	2.7E-07	7.6E-06	3.6E-10	0.0E+00
	2	5	2.5mph <= speed < 7.5mph	1.9E-06	7.9E-07	5.6E-07	6.1E-07	0.0E+00	2.8E-06	3.0E-07	2.8E-09	4.0E-07	1.5E-07	4.2E-06	2.7E-10	0.0E+00
	3	10	7.5mph <= speed < 12.5mph	1.5E-06	5.8E-07	4.7E-07	5.2E-07	0.0E+00	9.2E-07	1.6E-07	2.4E-09	2.3E-07	8.1E-08	2.4E-06	1.9E-10	0.0E+00
	4	15	12.5mph <= speed < 17.5mph	1.4E-06	5.1E-07	4.3E-07	4.8E-07	0.0E+00	5.2E-07	8.3E-08	7.1E-09	1.7E-07	5.9E-08	1.8E-06	2.9E-10	0.0E+00
	5	20	17.5mph <= speed < 22.5mph	1.3E-06	4.4E-07	4.0E-07	4.4E-07	0.0E+00	1.5E-06	1.3E-07	4.4E-09	1.4E-07	5.1E-08	1.5E-06	1.6E-10	0.0E+00
	6	25	22.5mph <= speed < 27.5mph	1.1E-06	3.4E-07	3.3E-07	3.5E-07	0.0E+00	2.1E-06	1.7E-07	5.5E-09	1.2E-07	4.1E-08	1.2E-06	1.8E-10	0.0E+00
	7	30	27.5mph <= speed < 32.5mph	9.9E-07	3.2E-07	3.0E-07	3.3E-07	0.0E+00	2.4E-06	1.9E-07	6.5E-09	1.4E-07	4.5E-08	1.3E-06	1.9E-10	0.0E+00
	8	35	32.5mph <= speed < 37.5mph	9.9E-07	3.1E-07	2.9E-07	3.1E-07	0.0E+00	2.2E-06	1.4E-07	3.1E-09	1.5E-07	4.6E-08	1.3E-06	9.4E-11	0.0E+00
	9	40	37.5mph <= speed < 42.5mph	1.0E-06	3.0E-07	2.7E-07	2.9E-07	0.0E+00	2.0E-06	1.0E-07	3.7E-09	1.7E-07	4.9E-08	1.4E-06	1.0E-10	0.0E+00
	10	45	42.5mph <= speed < 47.5mph	1.0E-06	2.9E-07	2.7E-07	2.8E-07	0.0E+00	1.9E-06	7.4E-08	4.2E-09	1.8E-07	5.1E-08	1.5E-06	1.1E-10	0.0E+00
	11	50	47.5mph <= speed < 52.5mph	1.0E-06	3.0E-07	2.7E-07	2.9E-07	0.0E+00	2.2E-06	1.4E-07	4.0E-09	2.0E-07	5.2E-08	1.6E-06	9.7E-11	0.0E+00
	12	55	52.5mph <= speed < 57.5mph	1.1E-06	3.1E-07	2.8E-07	2.9E-07	0.0E+00	2.4E-06	1.8E-07	3.4E-09	2.1E-07	5.3E-08	1.7E-06	7.4E-11	0.0E+00
	13	60	57.5mph <= speed < 62.5mph	1.1E-06	3.2E-07	2.9E-07	3.1E-07	0.0E+00	2.5E-06	2.1E-07	3.4E-09	2.1E-07	5.5E-08	1.7E-06	6.9E-11	0.0E+00
	14	65	62.5mph <= speed < 67.5mph	1.2E-06	3.3E-07	3.0E-07	3.2E-07	0.0E+00	3.3E-06	2.7E-07	4.2E-09	2.3E-07	6.4E-08	2.2E-06	9.1E-11	0.0E+00
	15	70	67.5mph <= speed < 72.5mph	1.2E-06	3.7E-07	3.4E-07	3.6E-07	0.0E+00	4.0E-06	3.4E-07	4.9E-09	2.4E-07	7.1E-08	2.7E-06	1.1E-10	0.0E+00
	16	75	72.5mph <= speed	1.2E-06	4.6E-07	3.9E-07	4.1E-07	0.0E+00	5.0E-06	4.1E-07	5.8E-09	2.7E-07	8.3E-08	3.2E-06	1.4E-10	0.0E+00

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.5E-03	1.6E-04	1.5E-04	4.5E-04	1.5E-02	2.2E-02	4.3E-02	8.4E-03	7.4E-03	8.2E-03	9.7E-03	4.8E-03	7.3E-03
	2	5	2.5mph <= speed < 7.5mph	1.3E-03	9.0E-05	9.2E-05	2.5E-04	7.9E-03	1.1E-02	2.4E-02	4.4E-03	3.9E-03	4.3E-03	5.2E-03	2.6E-03	3.9E-03
	3	10	7.5mph <= speed < 12.5mph	7.1E-04	5.5E-05	6.0E-05	1.4E-04	4.1E-03	6.0E-03	1.3E-02	2.2E-03	2.1E-03	2.3E-03	2.8E-03	1.3E-03	2.0E-03
	4	15	12.5mph <= speed < 17.5mph	5.4E-04	3.9E-05	4.5E-05	1.1E-04	2.9E-03	4.3E-03	9.7E-03	1.5E-03	1.5E-03	1.7E-03	2.2E-03	9.0E-04	1.3E-03
	5	20	17.5mph <= speed < 22.5mph	4.6E-04	3.2E-05	3.8E-05	8.5E-05	2.2E-03	3.4E-03	7.9E-03	1.1E-03	1.2E-03	1.3E-03	1.8E-03	6.9E-04	1.0E-03
	6	25	22.5mph <= speed < 27.5mph	4.0E-04	3.0E-05	3.6E-05	7.5E-05	1.8E-03	2.8E-03	6.5E-03	9.4E-04	1.0E-03	1.1E-03	1.5E-03	5.7E-04	8.3E-04
	7	30	27.5mph <= speed < 32.5mph	3.8E-04	3.1E-05	3.7E-05	7.1E-05	1.5E-03	2.6E-03	5.6E-03	7.8E-04	8.6E-04	9.6E-04	1.4E-03	4.8E-04	7.0E-04
	8	35	32.5mph <= speed < 37.5mph	3.8E-04	3.7E-05	4.5E-05	7.2E-05	1.4E-03	2.4E-03	5.0E-03	7.1E-04	7.7E-04	8.6E-04	1.4E-03	4.3E-04	6.3E-04
	9	40	37.5mph <= speed < 42.5mph	3.8E-04	4.1E-05	5.0E-05	7.4E-05	1.3E-03	2.3E-03	4.4E-03	6.2E-04	7.0E-04	7.8E-04	1.4E-03	3.8E-04	5.6E-04
	10	45	42.5mph <= speed < 47.5mph	3.8E-04	4.4E-05	5.3E-05	7.5E-05	1.1E-03	2.2E-03	4.0E-03	5.6E-04	6.5E-04	7.3E-04	1.5E-03	3.5E-04	5.0E-04
	11	50	47.5mph <= speed < 52.5mph	3.7E-04	4.4E-05	5.3E-05	7.3E-05	1.0E-03	2.1E-03	3.6E-03	5.1E-04	6.0E-04	6.7E-04	1.4E-03	3.2E-04	4.6E-04
	12	55	52.5mph <= speed < 57.5mph	3.5E-04	4.1E-05	5.1E-05	6.9E-05	9.4E-04	2.0E-03	3.3E-03	4.6E-04	5.5E-04	6.2E-04	1.3E-03	2.9E-04	4.2E-04
	13	60	57.5mph <= speed < 62.5mph	3.4E-04	3.9E-05	4.9E-05	6.6E-05	8.5E-04	1.9E-03	3.0E-03	4.1E-04	5.1E-04	5.6E-04	1.1E-03	2.6E-04	3.8E-04
	14	65	62.5mph <= speed < 67.5mph	3.3E-04	3.9E-05	5.0E-05	6.7E-05	7.7E-04	1.8E-03	2.7E-03	3.7E-04	4.6E-04	5.2E-04	1.1E-03	2.3E-04	3.5E-04
	15	70	67.5mph <= speed < 72.5mph	3.2E-04	4.2E-05	5.4E-05	7.1E-05	7.1E-04	1.7E-03	2.4E-03	3.4E-04	4.2E-04	4.8E-04	1.0E-03	2.1E-04	3.2E-04
	16	75	72.5mph <= speed	3.1E-04	4.8E-05	6.1E-05	7.9E-05	6.6E-04	1.7E-03	2.1E-03	3.1E-04	3.9E-04	4.4E-04	1.0E-03	2.0E-04	3.0E-04

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.4E-03	1.5E-04	1.5E-04	4.5E-04	1.4E-02	2.0E-02	3.9E-02	6.6E-03	7.4E-03	8.2E-03	9.7E-03	4.9E-03	7.3E-03
	2	5	2.5mph <= speed < 7.5mph	1.3E-03	9.2E-05	9.6E-05	2.5E-04	7.7E-03	9.4E-03	1.8E-02	3.6E-03	3.8E-03	4.3E-03	5.2E-03	2.6E-03	3.8E-03
	3	10	7.5mph <= speed < 12.5mph	7.6E-04	6.1E-05	6.8E-05	1.5E-04	3.9E-03	5.1E-03	1.0E-02	2.1E-03	2.1E-03	2.3E-03	2.8E-03	1.3E-03	2.0E-03
	4	15	12.5mph <= speed < 17.5mph	5.7E-04	5.1E-05	5.8E-05	1.2E-04	2.9E-03	2.9E-03	5.5E-03	1.5E-03	1.5E-03	1.6E-03	2.1E-03	9.0E-04	1.3E-03
	5	20	17.5mph <= speed < 22.5mph	4.7E-04	4.4E-05	5.2E-05	9.9E-05	2.2E-03	2.4E-03	4.8E-03	1.1E-03	1.2E-03	1.3E-03	1.7E-03	6.9E-04	1.0E-03
	6	25	22.5mph <= speed < 27.5mph	4.1E-04	3.5E-05	4.5E-05	8.3E-05	1.8E-03	2.2E-03	4.3E-03	9.4E-04	9.8E-04	1.1E-03	1.4E-03	5.8E-04	8.3E-04
	7	30	27.5mph <= speed < 32.5mph	3.7E-04	3.3E-05	4.1E-05	7.5E-05	1.5E-03	2.0E-03	4.0E-03	7.9E-04	8.5E-04	9.6E-04	1.2E-03	4.9E-04	7.0E-04
	8	35	32.5mph <= speed < 37.5mph	3.5E-04	3.0E-05	3.8E-05	6.8E-05	1.4E-03	1.8E-03	3.6E-03	7.1E-04	7.6E-04	8.5E-04	1.1E-03	4.4E-04	6.3E-04
	9	40	37.5mph <= speed < 42.5mph	3.4E-04	2.8E-05	3.6E-05	6.3E-05	1.3E-03	1.7E-03	3.3E-03	6.3E-04	6.8E-04	7.7E-04	9.4E-04	3.9E-04	5.6E-04
	10	45	42.5mph <= speed < 47.5mph	3.3E-04	2.8E-05	3.5E-05	5.9E-05	1.2E-03	1.5E-03	3.1E-03	5.6E-04	6.2E-04	7.1E-04	8.4E-04	3.5E-04	5.1E-04
	11	50	47.5mph <= speed < 52.5mph	3.2E-04	2.7E-05	3.5E-05	5.7E-05	1.0E-03	1.7E-03	3.2E-03	5.1E-04	5.6E-04	6.4E-04	7.5E-04	3.2E-04	4.6E-04
	12	55	52.5mph <= speed < 57.5mph	3.1E-04	2.8E-05	3.5E-05	5.5E-05	9.5E-04	1.8E-03	3.3E-03	4.6E-04	5.2E-04	5.9E-04	6.8E-04	2.9E-04	4.2E-04
	13	60	57.5mph <= speed < 62.5mph	3.1E-04	2.8E-05	3.6E-05	5.5E-05	8.5E-04	1.7E-03	3.0E-03	4.1E-04	4.7E-04	5.4E-04	6.2E-04	2.6E-04	3.8E-04
	14	65	62.5mph <= speed < 67.5mph	3.1E-04	3.0E-05	3.9E-05	5.7E-05	7.7E-04	1.6E-03	2.6E-03	3.7E-04	4.3E-04	5.0E-04	6.2E-04	2.3E-04	3.5E-04
	15	70	67.5mph <= speed < 72.5mph	3.0E-04	3.3E-05	4.5E-05	6.2E-05	7.1E-04	1.6E-03	2.3E-03	3.3E-04	4.0E-04	4.6E-04	6.3E-04	2.1E-04	3.2E-04
	16	75	72.5mph <= speed	3.0E-04	4.1E-05	5.4E-05	7.1E-05	6.5E-04	1.6E-03	2.1E-03	3.1E-04	3.6E-04	4.2E-04	6.4E-04	2.0E-04	3.0E-04

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.0E+00	1.0E-02	7.5E-02	1.0E-01	2.4E-01	1.3E+00	1.9E+00	1.9E-01	2.8E-01	2.6E-01	6.8E-01	2.0E-01	2.6E-01
	2	5	2.5mph <= speed < 7.5mph	0.0E+00	6.0E-03	4.0E-02	5.4E-02	1.3E-01	6.4E-01	9.4E-01	1.1E-01	1.3E-01	1.3E-01	3.3E-01	1.1E-01	1.4E-01
	3	10	7.5mph <= speed < 12.5mph	0.0E+00	3.6E-03	2.2E-02	3.0E-02	7.7E-02	3.8E-01	5.3E-01	6.5E-02	7.5E-02	6.8E-02	1.8E-01	6.6E-02	8.5E-02
	4	15	12.5mph <= speed < 17.5mph	0.0E+00	2.5E-03	1.4E-02	2.0E-02	6.4E-02	3.0E-01	3.9E-01	5.9E-02	5.6E-02	5.1E-02	1.3E-01	5.7E-02	7.5E-02
	5	20	17.5mph <= speed < 22.5mph	0.0E+00	2.0E-03	9.5E-03	1.4E-02	5.7E-02	2.6E-01	3.2E-01	5.3E-02	4.6E-02	4.3E-02	1.1E-01	5.1E-02	6.7E-02
	6	25	22.5mph <= speed < 27.5mph	0.0E+00	2.0E-03	8.4E-03	1.2E-02	5.2E-02	2.4E-01	2.7E-01	4.9E-02	4.0E-02	3.8E-02	9.3E-02	4.7E-02	6.2E-02
	7	30	27.5mph <= speed < 32.5mph	0.0E+00	2.1E-03	7.8E-03	1.1E-02	4.9E-02	2.2E-01	2.5E-01	4.8E-02	3.7E-02	3.5E-02	8.6E-02	4.5E-02	5.9E-02
	8	35	32.5mph <= speed < 37.5mph	0.0E+00	2.4E-03	7.7E-03	1.1E-02	4.0E-02	1.8E-01	2.2E-01	3.8E-02	3.3E-02	3.1E-02	7.6E-02	3.6E-02	4.7E-02
	9	40	37.5mph <= speed < 42.5mph	0.0E+00	2.7E-03	7.6E-03	1.1E-02	3.7E-02	1.7E-01	2.1E-01	3.6E-02	3.1E-02	3.0E-02	7.3E-02	3.4E-02	4.4E-02
	10	45	42.5mph <= speed < 47.5mph	0.0E+00	2.8E-03	7.6E-03	1.1E-02	3.4E-02	1.6E-01	2.0E-01	3.4E-02	3.0E-02	2.8E-02	7.0E-02	3.2E-02	4.1E-02
	11	50	47.5mph <= speed < 52.5mph	0.0E+00	2.8E-03	7.3E-03	1.1E-02	3.2E-02	1.4E-01	1.9E-01	3.0E-02	2.8E-02	2.7E-02	6.7E-02	2.9E-02	3.7E-02
	12	55	52.5mph <= speed < 57.5mph	0.0E+00	2.6E-03	6.9E-03	1.0E-02	2.9E-02	1.3E-01	1.8E-01	2.6E-02	2.7E-02	2.6E-02	6.5E-02	2.5E-02	3.2E-02
	13	60	57.5mph <= speed < 62.5mph	0.0E+00	2.5E-03	6.7E-03	9.9E-03	2.7E-02	1.2E-01	1.7E-01	2.4E-02	2.5E-02	2.4E-02	6.1E-02	2.3E-02	3.0E-02
	14	65	62.5mph <= speed < 67.5mph	0.0E+00	2.5E-03	6.8E-03	1.0E-02	2.7E-02	1.2E-01	1.6E-01	2.4E-02	2.4E-02	2.2E-02	5.7E-02	2.4E-02	3.0E-02
	15	70	67.5mph <= speed < 72.5mph	0.0E+00	2.6E-03	6.7E-03	1.0E-02	2.7E-02	1.2E-01	1.5E-01	2.4E-02	2.3E-02	2.1E-02	5.4E-02	2.4E-02	3.0E-02
	16	75	72.5mph <= speed	0.0E+00	2.9E-03	6.7E-03	1.0E-02	2.7E-02	1.2E-01	1.4E-01	2.5E-02	2.2E-02	2.0E-02	5.1E-02	2.4E-02	3.1E-02

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.0E+00	1.0E-02	7.6E-02	1.0E-01	2.3E-01	1.2E+00	1.9E+00	1.6E-01	2.8E-01	2.6E-01	6.8E-01	2.0E-01	2.6E-01
	2	5	2.5mph <= speed < 7.5mph	0.0E+00	6.1E-03	3.9E-02	5.3E-02	1.3E-01	6.0E-01	9.3E-01	9.7E-02	1.3E-01	1.3E-01	3.3E-01	1.1E-01	1.4E-01
	3	10	7.5mph <= speed < 12.5mph	0.0E+00	4.0E-03	2.1E-02	2.9E-02	7.8E-02	3.3E-01	4.9E-01	6.5E-02	7.5E-02	6.8E-02	1.8E-01	6.6E-02	8.6E-02
	4	15	12.5mph <= speed < 17.5mph	0.0E+00	3.3E-03	1.5E-02	2.1E-02	6.6E-02	1.8E-01	2.9E-01	6.0E-02	5.6E-02	5.0E-02	1.3E-01	5.9E-02	7.7E-02
	5	20	17.5mph <= speed < 22.5mph	0.0E+00	2.8E-03	1.2E-02	1.7E-02	5.8E-02	1.6E-01	2.5E-01	5.4E-02	4.6E-02	4.2E-02	1.1E-01	5.3E-02	6.9E-02
	6	25	22.5mph <= speed < 27.5mph	0.0E+00	2.4E-03	9.4E-03	1.4E-02	5.3E-02	1.5E-01	2.2E-01	5.0E-02	3.9E-02	3.7E-02	9.0E-02	4.8E-02	6.4E-02
	7	30	27.5mph <= speed < 32.5mph	0.0E+00	2.2E-03	7.7E-03	1.1E-02	5.0E-02	1.5E-01	2.0E-01	4.8E-02	3.6E-02	3.3E-02	8.4E-02	4.6E-02	6.0E-02
	8	35	32.5mph <= speed < 37.5mph	0.0E+00	2.0E-03	7.0E-03	1.0E-02	3.9E-02	1.5E-01	1.8E-01	3.6E-02	3.1E-02	2.9E-02	7.4E-02	3.5E-02	4.6E-02
	9	40	37.5mph <= speed < 42.5mph	0.0E+00	1.9E-03	6.6E-03	9.8E-03	3.6E-02	1.4E-01	1.6E-01	3.3E-02	2.9E-02	2.7E-02	7.0E-02	3.3E-02	4.3E-02
	10	45	42.5mph <= speed < 47.5mph	0.0E+00	1.8E-03	6.4E-03	9.5E-03	3.3E-02	1.4E-01	1.5E-01	3.1E-02	2.8E-02	2.6E-02	6.7E-02	3.0E-02	4.0E-02
	11	50	47.5mph <= speed < 52.5mph	0.0E+00	1.9E-03	6.3E-03	9.4E-03	2.9E-02	1.3E-01	1.7E-01	2.7E-02	2.7E-02	2.5E-02	6.5E-02	2.7E-02	3.4E-02
	12	55	52.5mph <= speed < 57.5mph	0.0E+00	1.9E-03	6.3E-03	9.4E-03	2.7E-02	1.2E-01	1.8E-01	2.3E-02	2.6E-02	2.4E-02	6.4E-02	2.3E-02	2.9E-02
	13	60	57.5mph <= speed < 62.5mph	0.0E+00	1.9E-03	6.3E-03	9.4E-03	2.5E-02	1.0E-01	1.7E-01	2.1E-02	2.4E-02	2.2E-02	5.9E-02	2.1E-02	2.7E-02
	14	65	62.5mph <= speed < 67.5mph	0.0E+00	1.9E-03	6.3E-03	9.5E-03	2.5E-02	1.0E-01	1.6E-01	2.2E-02	2.2E-02	2.1E-02	5.6E-02	2.2E-02	2.7E-02
	15	70	67.5mph <= speed < 72.5mph	0.0E+00	2.1E-03	6.3E-03	9.5E-03	2.5E-02	1.0E-01	1.5E-01	2.2E-02	2.1E-02	2.0E-02	5.3E-02	2.2E-02	2.8E-02
	16	75	72.5mph <= speed	0.0E+00	2.5E-03	6.4E-03	9.6E-03	2.5E-02	1.1E-01	1.4E-01	2.3E-02	2.0E-02	1.9E-02	5.0E-02	2.3E-02	2.9E-02

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.4E-01	1.1E-03	1.1E-03	1.5E-03	7.9E-03	3.8E-02	5.3E-02	7.1E-03	2.6E-02	1.3E-02	1.1E-01	7.2E-03	7.5E-03
	2	5	2.5mph <= speed < 7.5mph	7.2E-02	7.0E-04	7.2E-04	9.9E-04	4.4E-03	2.1E-02	3.0E-02	4.1E-03	1.4E-02	7.2E-03	5.9E-02	4.1E-03	4.3E-03
	3	10	7.5mph <= speed < 12.5mph	3.9E-02	4.7E-04	5.0E-04	6.8E-04	2.3E-03	1.1E-02	1.6E-02	2.2E-03	8.1E-03	3.8E-03	3.3E-02	2.2E-03	2.3E-03
	4	15	12.5mph <= speed < 17.5mph	3.0E-02	3.4E-04	3.6E-04	5.1E-04	1.6E-03	8.0E-03	1.2E-02	1.5E-03	6.2E-03	2.8E-03	2.6E-02	1.5E-03	1.5E-03
	5	20	17.5mph <= speed < 22.5mph	2.5E-02	2.9E-04	3.2E-04	4.4E-04	1.3E-03	6.3E-03	9.6E-03	1.1E-03	5.1E-03	2.3E-03	2.2E-02	1.1E-03	1.2E-03
	6	25	22.5mph <= speed < 27.5mph	2.1E-02	2.7E-04	3.1E-04	4.2E-04	1.0E-03	5.2E-03	7.9E-03	9.3E-04	4.2E-03	1.9E-03	1.9E-02	9.3E-04	9.7E-04
	7	30	27.5mph <= speed < 32.5mph	1.9E-02	2.8E-04	3.3E-04	4.4E-04	8.5E-04	4.6E-03	6.9E-03	7.8E-04	3.7E-03	1.6E-03	1.6E-02	7.9E-04	8.2E-04
	8	35	32.5mph <= speed < 37.5mph	1.8E-02	3.3E-04	4.3E-04	5.2E-04	7.8E-04	4.2E-03	6.0E-03	7.0E-04	3.0E-03	1.4E-03	1.3E-02	7.1E-04	7.4E-04
	9	40	37.5mph <= speed < 42.5mph	1.7E-02	3.6E-04	4.9E-04	5.8E-04	7.0E-04	3.9E-03	5.4E-03	6.2E-04	2.6E-03	1.3E-03	1.1E-02	6.3E-04	6.6E-04
	10	45	42.5mph <= speed < 47.5mph	1.6E-02	3.8E-04	5.3E-04	6.3E-04	6.3E-04	3.6E-03	4.9E-03	5.6E-04	2.2E-03	1.1E-03	9.4E-03	5.7E-04	6.0E-04
	11	50	47.5mph <= speed < 52.5mph	1.6E-02	3.9E-04	5.5E-04	6.4E-04	5.8E-04	3.5E-03	4.5E-03	5.1E-04	1.9E-03	9.9E-04	7.8E-03	5.2E-04	5.5E-04
	12	55	52.5mph <= speed < 57.5mph	1.5E-02	3.7E-04	5.4E-04	6.3E-04	5.3E-04	3.3E-03	4.1E-03	4.7E-04	1.6E-03	8.9E-04	6.3E-03	4.8E-04	5.2E-04
	13	60	57.5mph <= speed < 62.5mph	1.5E-02	3.7E-04	5.5E-04	6.4E-04	4.8E-04	3.2E-03	3.8E-03	4.3E-04	1.4E-03	8.0E-04	5.3E-03	4.4E-04	4.8E-04
	14	65	62.5mph <= speed < 67.5mph	1.5E-02	3.9E-04	6.0E-04	7.0E-04	4.4E-04	3.0E-03	3.5E-03	3.9E-04	1.3E-03	7.4E-04	5.0E-03	4.1E-04	4.4E-04
	15	70	67.5mph <= speed < 72.5mph	1.4E-02	4.6E-04	7.2E-04	8.6E-04	4.1E-04	2.9E-03	3.3E-03	3.6E-04	1.2E-03	6.8E-04	4.7E-03	3.8E-04	4.1E-04
	16	75	72.5mph <= speed	1.4E-02	5.7E-04	8.8E-04	1.1E-03	3.8E-04	2.8E-03	3.1E-03	3.4E-04	1.1E-03	6.4E-04	4.6E-03	3.6E-04	3.9E-04

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.4E-01	1.1E-03	1.1E-03	1.5E-03	7.1E-03	3.7E-02	4.9E-02	5.3E-03	2.5E-02	1.3E-02	1.1E-01	7.2E-03	7.6E-03
	2	5	2.5mph <= speed < 7.5mph	7.2E-02	7.2E-04	7.4E-04	1.0E-03	4.3E-03	1.8E-02	2.4E-02	3.1E-03	1.4E-02	7.1E-03	5.9E-02	4.1E-03	4.3E-03
	3	10	7.5mph <= speed < 12.5mph	4.0E-02	5.1E-04	5.6E-04	7.7E-04	2.2E-03	9.6E-03	1.3E-02	2.1E-03	8.1E-03	3.8E-03	3.3E-02	2.2E-03	2.3E-03
	4	15	12.5mph <= speed < 17.5mph	3.0E-02	4.5E-04	5.0E-04	6.8E-04	1.6E-03	5.7E-03	7.4E-03	1.5E-03	6.0E-03	2.7E-03	2.5E-02	1.5E-03	1.5E-03
	5	20	17.5mph <= speed < 22.5mph	2.4E-02	4.0E-04	4.7E-04	6.3E-04	1.2E-03	4.7E-03	6.4E-03	1.1E-03	4.7E-03	2.2E-03	2.0E-02	1.1E-03	1.1E-03
	6	25	22.5mph <= speed < 27.5mph	2.1E-02	3.5E-04	4.2E-04	5.6E-04	9.9E-04	4.1E-03	5.7E-03	9.2E-04	3.7E-03	1.8E-03	1.5E-02	9.2E-04	9.7E-04
	7	30	27.5mph <= speed < 32.5mph	1.9E-02	3.3E-04	4.0E-04	5.4E-04	8.5E-04	3.7E-03	5.3E-03	7.8E-04	3.2E-03	1.5E-03	1.3E-02	7.8E-04	8.2E-04
	8	35	32.5mph <= speed < 37.5mph	1.8E-02	3.0E-04	3.9E-04	5.1E-04	7.8E-04	3.2E-03	4.7E-03	7.0E-04	2.5E-03	1.3E-03	1.0E-02	7.1E-04	7.4E-04
	9	40	37.5mph <= speed < 42.5mph	1.7E-02	2.8E-04	3.8E-04	4.9E-04	7.0E-04	2.9E-03	4.2E-03	6.2E-04	2.1E-03	1.1E-03	8.2E-03	6.3E-04	6.6E-04
	10	45	42.5mph <= speed < 47.5mph	1.6E-02	2.7E-04	3.8E-04	4.7E-04	6.3E-04	2.6E-03	3.9E-03	5.6E-04	1.7E-03	1.0E-03	6.6E-03	5.7E-04	6.0E-04
	11	50	47.5mph <= speed < 52.5mph	1.6E-02	2.7E-04	3.8E-04	4.7E-04	5.8E-04	3.0E-03	3.9E-03	5.1E-04	1.4E-03	8.9E-04	5.2E-03	5.2E-04	5.6E-04
	12	55	52.5mph <= speed < 57.5mph	1.5E-02	2.8E-04	3.9E-04	4.9E-04	5.3E-04	3.3E-03	3.9E-03	4.7E-04	1.2E-03	7.9E-04	4.0E-03	4.9E-04	5.2E-04
	13	60	57.5mph <= speed < 62.5mph	1.5E-02	2.9E-04	4.2E-04	5.2E-04	4.8E-04	3.1E-03	3.6E-03	4.2E-04	9.7E-04	7.1E-04	3.2E-03	4.5E-04	4.8E-04
	14	65	62.5mph <= speed < 67.5mph	1.5E-02	3.2E-04	4.9E-04	5.9E-04	4.4E-04	3.0E-03	3.4E-03	3.9E-04	9.0E-04	6.6E-04	3.2E-03	4.1E-04	4.4E-04
	15	70	67.5mph <= speed < 72.5mph	1.4E-02	4.0E-04	6.3E-04	7.6E-04	4.1E-04	2.9E-03	3.2E-03	3.6E-04	8.6E-04	6.1E-04	3.2E-03	3.8E-04	4.1E-04
	16	75	72.5mph <= speed	1.4E-02	5.1E-04	8.1E-04	9.9E-04	3.8E-04	2.8E-03	3.0E-03	3.4E-04	8.3E-04	5.8E-04	3.2E-03	3.5E-04	3.9E-04

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	5.4E-02	3.2E-04	1.2E-03	3.2E-03	1.3E-01	4.4E-01	5.1E-01	1.2E-01	1.0E-01	1.4E-01	1.3E-01	1.2E-01	1.2E-01
	2	5	2.5mph <= speed < 7.5mph	2.8E-02	2.2E-04	6.9E-04	1.7E-03	6.9E-02	2.4E-01	2.8E-01	6.6E-02	5.6E-02	7.3E-02	7.0E-02	6.7E-02	6.8E-02
	3	10	7.5mph <= speed < 12.5mph	1.5E-02	1.6E-04	4.2E-04	1.0E-03	3.7E-02	1.3E-01	1.5E-01	3.5E-02	3.0E-02	3.8E-02	3.8E-02	3.5E-02	3.6E-02
	4	15	12.5mph <= speed < 17.5mph	1.1E-02	1.2E-04	3.1E-04	7.5E-04	2.6E-02	9.6E-02	1.1E-01	2.3E-02	2.1E-02	2.7E-02	2.8E-02	2.4E-02	2.4E-02
	5	20	17.5mph <= speed < 22.5mph	9.6E-03	1.0E-04	2.6E-04	6.0E-04	2.0E-02	7.6E-02	8.9E-02	1.8E-02	1.7E-02	2.2E-02	2.3E-02	1.8E-02	1.8E-02
	6	25	22.5mph <= speed < 27.5mph	8.3E-03	1.0E-04	2.3E-04	5.3E-04	1.6E-02	6.2E-02	7.3E-02	1.5E-02	1.4E-02	1.8E-02	1.9E-02	1.5E-02	1.5E-02
	7	30	27.5mph <= speed < 32.5mph	7.4E-03	1.1E-04	2.3E-04	5.0E-04	1.4E-02	5.4E-02	6.4E-02	1.2E-02	1.2E-02	1.5E-02	1.6E-02	1.3E-02	1.3E-02
	8	35	32.5mph <= speed < 37.5mph	7.0E-03	1.3E-04	2.6E-04	5.1E-04	1.2E-02	4.9E-02	5.6E-02	1.1E-02	1.1E-02	1.4E-02	1.4E-02	1.1E-02	1.2E-02
	9	40	37.5mph <= speed < 42.5mph	6.7E-03	1.5E-04	2.8E-04	5.2E-04	1.1E-02	4.5E-02	5.1E-02	9.9E-03	9.5E-03	1.2E-02	1.2E-02	1.0E-02	1.0E-02
	10	45	42.5mph <= speed < 47.5mph	6.4E-03	1.6E-04	2.9E-04	5.3E-04	1.0E-02	4.1E-02	4.7E-02	9.0E-03	8.7E-03	1.1E-02	1.1E-02	9.1E-03	9.5E-03
	11	50	47.5mph <= speed < 52.5mph	6.2E-03	1.6E-04	2.9E-04	5.2E-04	9.2E-03	3.9E-02	4.3E-02	8.2E-03	7.9E-03	1.0E-02	9.9E-03	8.4E-03	8.7E-03
	12	55	52.5mph <= speed < 57.5mph	6.0E-03	1.5E-04	2.9E-04	5.0E-04	8.4E-03	3.7E-02	4.0E-02	7.6E-03	7.3E-03	9.6E-03	8.8E-03	7.7E-03	8.1E-03
	13	60	57.5mph <= speed < 62.5mph	5.8E-03	1.5E-04	2.8E-04	5.0E-04	7.7E-03	3.5E-02	3.7E-02	6.9E-03	6.7E-03	8.9E-03	7.9E-03	7.1E-03	7.4E-03
	14	65	62.5mph <= speed < 67.5mph	5.7E-03	1.6E-04	3.0E-04	5.2E-04	7.1E-03	3.3E-02	3.4E-02	6.4E-03	6.2E-03	8.2E-03	7.3E-03	6.5E-03	6.8E-03
	15	70	67.5mph <= speed < 72.5mph	5.6E-03	1.9E-04	3.5E-04	5.8E-04	6.6E-03	3.2E-02	3.2E-02	5.9E-03	5.7E-03	7.6E-03	6.8E-03	6.1E-03	6.4E-03
	16	75	72.5mph <= speed	5.4E-03	2.4E-04	4.1E-04	6.7E-04	6.1E-03	3.1E-02	3.0E-02	5.5E-03	5.3E-03	7.1E-03	6.4E-03	5.7E-03	6.0E-03

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	5.3E-02	3.1E-04	1.2E-03	3.1E-03	1.1E-01	4.2E-01	4.7E-01	8.6E-02	1.0E-01	1.4E-01	1.3E-01	1.2E-01	1.2E-01
	2	5	2.5mph <= speed < 7.5mph	2.8E-02	2.2E-04	7.0E-04	1.7E-03	6.8E-02	2.1E-01	2.3E-01	5.1E-02	5.5E-02	7.3E-02	6.9E-02	6.6E-02	6.8E-02
	3	10	7.5mph <= speed < 12.5mph	1.6E-02	1.8E-04	4.5E-04	1.0E-03	3.5E-02	1.1E-01	1.2E-01	3.3E-02	2.9E-02	3.8E-02	3.7E-02	3.5E-02	3.6E-02
	4	15	12.5mph <= speed < 17.5mph	1.2E-02	1.6E-04	3.6E-04	8.1E-04	2.6E-02	6.6E-02	7.1E-02	2.3E-02	2.1E-02	2.7E-02	2.7E-02	2.3E-02	2.4E-02
	5	20	17.5mph <= speed < 22.5mph	9.4E-03	1.5E-04	3.1E-04	6.8E-04	2.0E-02	5.5E-02	6.0E-02	1.7E-02	1.7E-02	2.1E-02	2.2E-02	1.8E-02	1.8E-02
	6	25	22.5mph <= speed < 27.5mph	8.2E-03	1.3E-04	2.8E-04	5.9E-04	1.6E-02	4.8E-02	5.3E-02	1.5E-02	1.3E-02	1.7E-02	1.7E-02	1.5E-02	1.5E-02
	7	30	27.5mph <= speed < 32.5mph	7.3E-03	1.3E-04	2.6E-04	5.4E-04	1.3E-02	4.4E-02	4.8E-02	1.2E-02	1.2E-02	1.5E-02	1.5E-02	1.3E-02	1.3E-02
	8	35	32.5mph <= speed < 37.5mph	6.9E-03	1.2E-04	2.4E-04	5.0E-04	1.2E-02	3.8E-02	4.3E-02	1.1E-02	1.0E-02	1.4E-02	1.3E-02	1.1E-02	1.2E-02
	9	40	37.5mph <= speed < 42.5mph	6.5E-03	1.1E-04	2.3E-04	4.7E-04	1.1E-02	3.4E-02	3.9E-02	9.9E-03	9.3E-03	1.2E-02	1.1E-02	1.0E-02	1.0E-02
	10	45	42.5mph <= speed < 47.5mph	6.3E-03	1.1E-04	2.3E-04	4.5E-04	1.0E-02	3.1E-02	3.6E-02	9.0E-03	8.5E-03	1.1E-02	1.0E-02	9.2E-03	9.5E-03
	11	50	47.5mph <= speed < 52.5mph	6.1E-03	1.1E-04	2.2E-04	4.4E-04	9.2E-03	3.4E-02	3.8E-02	8.2E-03	7.7E-03	1.0E-02	8.9E-03	8.4E-03	8.7E-03
	12	55	52.5mph <= speed < 57.5mph	5.9E-03	1.1E-04	2.3E-04	4.4E-04	8.4E-03	3.6E-02	3.9E-02	7.6E-03	7.1E-03	9.6E-03	7.9E-03	7.8E-03	8.1E-03
	13	60	57.5mph <= speed < 62.5mph	5.8E-03	1.2E-04	2.4E-04	4.4E-04	7.7E-03	3.4E-02	3.6E-02	6.9E-03	6.5E-03	8.9E-03	7.1E-03	7.1E-03	7.4E-03
	14	65	62.5mph <= speed < 67.5mph	5.7E-03	1.3E-04	2.6E-04	4.7E-04	7.1E-03	3.2E-02	3.4E-02	6.4E-03	6.0E-03	8.2E-03	6.6E-03	6.5E-03	6.8E-03
	15	70	67.5mph <= speed < 72.5mph	5.6E-03	1.6E-04	3.1E-04	5.4E-04	6.5E-03	3.1E-02	3.2E-02	5.9E-03	5.6E-03	7.6E-03	6.2E-03	6.0E-03	6.3E-03
	16	75	72.5mph <= speed	5.4E-03	2.1E-04	3.8E-04	6.4E-04	6.1E-03	3.0E-02	3.0E-02	5.4E-03	5.2E-03	7.0E-03	5.9E-03	5.6E-03	6.0E-03

Urban Restricted	avgSpeedBinID	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61
	1	2.5	0	speed < 2.5mph	1.3E-03	1.6E-05	2.1E-05	5.2E-05	8.3E-04	1.2E-02	1.7E-02	5.3E-04	1.2E-03	2.0E-03	4.7E-03	6.7E-04
	2	5	2.5	2.5mph <= speed < 7.5mph	6.7E-04	9.3E-06	1.2E-05	2.8E-05	4.6E-04	6.3E-03	9.3E-03	3.0E-04	6.4E-04	1.1E-03	2.6E-03	3.8E-04
	3	10	7.5	7.5mph <= speed < 12.5mph	3.6E-04	5.7E-06	7.1E-06	1.6E-05	2.4E-04	3.3E-03	5.1E-03	1.6E-04	3.4E-04	5.7E-04	1.4E-03	2.0E-04
	4	15	12.5	12.5mph <= speed < 17.5mph	2.8E-04	4.0E-06	5.3E-06	1.2E-05	1.7E-04	2.3E-03	3.7E-03	1.1E-04	2.5E-04	4.3E-04	1.1E-03	1.4E-04
	5	20	17.5	17.5mph <= speed < 22.5mph	2.3E-04	3.3E-06	4.3E-06	9.6E-06	1.3E-04	1.8E-03	3.0E-03	8.1E-05	2.0E-04	3.5E-04	9.0E-04	1.0E-04
	6	25	22.5	22.5mph <= speed < 27.5mph	2.0E-04	3.1E-06	3.8E-06	8.2E-06	1.0E-04	1.5E-03	2.5E-03	6.8E-05	1.6E-04	2.9E-04	7.5E-04	8.7E-05
	7	30	27.5	27.5mph <= speed < 32.5mph	1.8E-04	3.3E-06	3.6E-06	7.4E-06	8.9E-05	1.3E-03	2.2E-03	5.8E-05	1.4E-04	2.5E-04	6.6E-04	7.5E-05
	8	35	32.5	32.5mph <= speed < 37.5mph	1.7E-04	3.9E-06	3.9E-06	7.0E-06	8.2E-05	1.3E-03	1.9E-03	5.2E-05	1.2E-04	2.2E-04	5.5E-04	6.7E-05
	9	40	37.5	37.5mph <= speed < 42.5mph	1.6E-04	4.4E-06	4.1E-06	6.7E-06	7.3E-05	1.2E-03	1.7E-03	4.6E-05	1.1E-04	1.9E-04	4.7E-04	6.1E-05
	10	45	42.5	42.5mph <= speed < 47.5mph	1.5E-04	4.7E-06	4.3E-06	6.5E-06	6.6E-05	1.1E-03	1.6E-03	4.2E-05	1.0E-04	1.7E-04	4.1E-04	5.5E-05
	11	50	47.5	47.5mph <= speed < 52.5mph	1.5E-04	4.8E-06	4.3E-06	6.2E-06	6.0E-05	1.1E-03	1.4E-03	3.8E-05	9.4E-05	1.5E-04	3.5E-04	5.2E-05
	12	55	52.5	52.5mph <= speed < 57.5mph	1.4E-04	4.6E-06	4.3E-06	6.0E-06	5.5E-05	1.1E-03	1.3E-03	3.5E-05	8.7E-05	1.4E-04	3.0E-04	4.8E-05
	13	60	57.5	57.5mph <= speed < 62.5mph	1.4E-04	4.7E-06	4.5E-06	5.8E-06	5.1E-05	1.0E-03	1.2E-03	3.2E-05	8.0E-05	1.2E-04	2.7E-04	4.5E-05
	14	65	62.5	62.5mph <= speed < 67.5mph	1.4E-04	5.1E-06	5.1E-06	6.1E-06	4.7E-05	9.9E-04	1.1E-03	3.0E-05	7.4E-05	1.2E-04	2.5E-04	4.2E-05
	15	70	67.5	67.5mph <= speed < 72.5mph	1.3E-04	6.1E-06	6.3E-06	6.8E-06	4.3E-05	9.5E-04	1.1E-03	2.8E-05	6.9E-05	1.1E-04	2.3E-04	3.9E-05
	16	75	72.5	72.5mph <= speed	1.3E-04	7.3E-06	8.3E-06	8.2E-06	4.0E-05	9.3E-04	1.0E-03	2.6E-05	6.4E-05	1.0E-04	2.2E-04	3.7E-05

Urban Unrestricted	avgSpeedBinID	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61
	1	2.5	0	speed < 2.5mph	1.3E-03	1.6E-05	2.1E-05	5.1E-05	7.4E-04	1.1E-02	1.6E-02	4.0E-04	1.2E-03	2.0E-03	4.6E-03	6.7E-04
	2	5	2.5	2.5mph <= speed < 7.5mph	6.8E-04	9.5E-06	1.2E-05	2.8E-05	4.5E-04	5.5E-03	7.7E-03	2.3E-04	6.3E-04	1.1E-03	2.5E-03	3.8E-04
	3	10	7.5	7.5mph <= speed < 12.5mph	3.8E-04	6.3E-06	7.2E-06	1.6E-05	2.3E-04	2.9E-03	4.2E-03	1.5E-04	3.4E-04	5.7E-04	1.4E-03	2.0E-04
	4	15	12.5	12.5mph <= speed < 17.5mph	2.8E-04	5.2E-06	5.6E-06	1.2E-05	1.7E-04	1.8E-03	2.4E-03	1.1E-04	2.5E-04	4.2E-04	1.0E-03	1.4E-04
	5	20	17.5	17.5mph <= speed < 22.5mph	2.3E-04	4.6E-06	4.8E-06	1.0E-05	1.3E-04	1.4E-03	2.0E-03	8.0E-05	1.9E-04	3.3E-04	8.3E-04	1.0E-04
	6	25	22.5	22.5mph <= speed < 27.5mph	2.0E-04	3.9E-06	4.2E-06	8.6E-06	1.0E-04	1.2E-03	1.8E-03	6.8E-05	1.6E-04	2.7E-04	6.6E-04	8.7E-05
	7	30	27.5	27.5mph <= speed < 32.5mph	1.8E-04	3.7E-06	3.9E-06	7.6E-06	8.9E-05	1.1E-03	1.6E-03	5.7E-05	1.4E-04	2.3E-04	5.7E-04	7.4E-05
	8	35	32.5	32.5mph <= speed < 37.5mph	1.6E-04	3.5E-06	3.8E-06	7.0E-06	8.2E-05	9.4E-04	1.5E-03	5.2E-05	1.2E-04	2.0E-04	4.6E-04	6.7E-05
	9	40	37.5	37.5mph <= speed < 42.5mph	1.6E-04	3.4E-06	3.8E-06	6.5E-06	7.3E-05	8.4E-04	1.3E-03	4.6E-05	1.1E-04	1.7E-04	3.9E-04	6.1E-05
	10	45	42.5	42.5mph <= speed < 47.5mph	1.5E-04	3.3E-06	3.7E-06	6.1E-06	6.6E-05	7.7E-04	1.2E-03	4.2E-05	1.0E-04	1.6E-04	3.4E-04	5.6E-05
	11	50	47.5	47.5mph <= speed < 52.5mph	1.5E-04	3.4E-06	3.7E-06	5.7E-06	6.0E-05	9.4E-04	1.3E-03	3.8E-05	9.2E-05	1.4E-04	2.8E-04	5.2E-05
	12	55	52.5	52.5mph <= speed < 57.5mph	1.4E-04	3.6E-06	3.8E-06	5.6E-06	5.5E-05	1.1E-03	1.3E-03	3.5E-05	8.5E-05	1.2E-04	2.4E-04	4.8E-05
	13	60	57.5	57.5mph <= speed < 62.5mph	1.4E-04	3.8E-06	4.1E-06	5.6E-06	5.0E-05	1.0E-03	1.2E-03	3.2E-05	7.8E-05	1.1E-04	2.1E-04	4.5E-05
	14	65	62.5	62.5mph <= speed < 67.5mph	1.4E-04	4.2E-06	4.7E-06	5.8E-06	4.6E-05	1.0E-03	1.1E-03	3.0E-05	7.2E-05	1.0E-04	2.0E-04	4.2E-05
	15	70	67.5	67.5mph <= speed < 72.5mph	1.3E-04	5.3E-06	5.9E-06	6.6E-06	4.3E-05	9.5E-04	1.1E-03	2.7E-05	6.7E-05	9.7E-05	1.9E-04	3.9E-05
	16	75	72.5	72.5mph <= speed	1.3E-04	6.8E-06	8.0E-06	8.0E-06	4.0E-05	9.3E-04	9.9E-04	2.6E-05	6.3E-05	9.1E-05	1.9E-04	3.7E-05

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.3E-03	1.4E-05	5.6E-05	1.7E-04	6.2E-03	3.0E-02	4.0E-02	5.4E-03	5.6E-03	7.3E-03	7.7E-03	5.6E-03	5.9E-03
	2	5	2.5mph <= speed < 7.5mph	1.2E-03	9.7E-06	3.2E-05	9.2E-05	3.4E-03	1.6E-02	2.2E-02	3.1E-03	3.0E-03	3.9E-03	4.2E-03	3.2E-03	3.4E-03
	3	10	7.5mph <= speed < 12.5mph	6.4E-04	7.0E-06	1.9E-05	5.3E-05	1.8E-03	8.2E-03	1.2E-02	1.6E-03	1.6E-03	2.1E-03	2.2E-03	1.7E-03	1.8E-03
	4	15	12.5mph <= speed < 17.5mph	4.9E-04	5.3E-06	1.4E-05	3.9E-05	1.3E-03	5.8E-03	8.7E-03	1.1E-03	1.1E-03	1.5E-03	1.7E-03	1.1E-03	1.2E-03
	5	20	17.5mph <= speed < 22.5mph	4.1E-04	4.6E-06	1.2E-05	3.2E-05	9.9E-04	4.6E-03	7.0E-03	8.3E-04	9.1E-04	1.2E-03	1.3E-03	8.6E-04	9.1E-04
	6	25	22.5mph <= speed < 27.5mph	3.5E-04	4.4E-06	1.1E-05	2.8E-05	7.9E-04	3.7E-03	5.8E-03	6.9E-04	7.4E-04	9.5E-04	1.1E-03	7.3E-04	7.6E-04
	7	30	27.5mph <= speed < 32.5mph	3.1E-04	4.7E-06	1.0E-05	2.6E-05	6.7E-04	3.3E-03	5.0E-03	5.9E-04	6.4E-04	8.2E-04	9.6E-04	6.1E-04	6.5E-04
	8	35	32.5mph <= speed < 37.5mph	3.0E-04	5.6E-06	1.2E-05	2.6E-05	6.1E-04	3.1E-03	4.5E-03	5.3E-04	5.7E-04	7.4E-04	8.4E-04	5.5E-04	5.8E-04
	9	40	37.5mph <= speed < 42.5mph	2.8E-04	6.3E-06	1.2E-05	2.6E-05	5.5E-04	2.9E-03	4.0E-03	4.7E-04	5.2E-04	6.7E-04	7.4E-04	4.9E-04	5.2E-04
	10	45	42.5mph <= speed < 47.5mph	2.7E-04	6.7E-06	1.3E-05	2.6E-05	5.0E-04	2.8E-03	3.7E-03	4.2E-04	4.7E-04	6.1E-04	6.7E-04	4.5E-04	4.7E-04
	11	50	47.5mph <= speed < 52.5mph	2.6E-04	6.8E-06	1.3E-05	2.5E-05	4.5E-04	2.7E-03	3.4E-03	3.9E-04	4.3E-04	5.6E-04	6.0E-04	4.1E-04	4.4E-04
	12	55	52.5mph <= speed < 57.5mph	2.5E-04	6.6E-06	1.3E-05	2.5E-05	4.1E-04	2.6E-03	3.2E-03	3.6E-04	4.0E-04	5.2E-04	5.4E-04	3.8E-04	4.1E-04
	13	60	57.5mph <= speed < 62.5mph	2.4E-04	6.6E-06	1.2E-05	2.4E-05	3.8E-04	2.5E-03	2.9E-03	3.3E-04	3.7E-04	4.8E-04	4.9E-04	3.5E-04	3.7E-04
	14	65	62.5mph <= speed < 67.5mph	2.4E-04	7.0E-06	1.3E-05	2.5E-05	3.5E-04	2.4E-03	2.7E-03	3.0E-04	3.4E-04	4.5E-04	4.5E-04	3.2E-04	3.5E-04
	15	70	67.5mph <= speed < 72.5mph	2.4E-04	8.3E-06	1.5E-05	2.8E-05	3.2E-04	2.3E-03	2.5E-03	2.8E-04	3.1E-04	4.2E-04	4.2E-04	3.0E-04	3.2E-04
	16	75	72.5mph <= speed	2.3E-04	1.0E-05	1.8E-05	3.2E-05	3.0E-04	2.2E-03	2.4E-03	2.6E-04	2.9E-04	3.9E-04	4.0E-04	2.8E-04	3.0E-04

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.2E-03	1.4E-05	5.6E-05	1.7E-04	5.6E-03	2.8E-02	3.7E-02	4.0E-03	5.5E-03	7.3E-03	7.7E-03	5.6E-03	5.9E-03
	2	5	2.5mph <= speed < 7.5mph	1.2E-03	1.0E-05	3.2E-05	9.3E-05	3.3E-03	1.4E-02	1.8E-02	2.4E-03	3.0E-03	3.9E-03	4.1E-03	3.2E-03	3.4E-03
	3	10	7.5mph <= speed < 12.5mph	6.6E-04	7.9E-06	2.0E-05	5.5E-05	1.7E-03	7.2E-03	9.9E-03	1.6E-03	1.6E-03	2.0E-03	2.2E-03	1.7E-03	1.8E-03
	4	15	12.5mph <= speed < 17.5mph	4.9E-04	7.2E-06	1.6E-05	4.2E-05	1.3E-03	4.3E-03	5.7E-03	1.1E-03	1.1E-03	1.5E-03	1.6E-03	1.1E-03	1.2E-03
	5	20	17.5mph <= speed < 22.5mph	4.0E-04	6.6E-06	1.4E-05	3.5E-05	9.8E-04	3.5E-03	4.7E-03	8.2E-04	9.0E-04	1.2E-03	1.3E-03	8.5E-04	9.0E-04
	6	25	22.5mph <= speed < 27.5mph	3.4E-04	5.8E-06	1.2E-05	3.0E-05	7.8E-04	3.0E-03	4.2E-03	6.9E-04	7.3E-04	9.4E-04	1.0E-03	7.2E-04	7.6E-04
	7	30	27.5mph <= speed < 32.5mph	3.1E-04	5.6E-06	1.1E-05	2.7E-05	6.7E-04	2.6E-03	3.8E-03	5.9E-04	6.3E-04	8.1E-04	9.1E-04	6.1E-04	6.5E-04
	8	35	32.5mph <= speed < 37.5mph	2.9E-04	5.2E-06	1.1E-05	2.5E-05	6.2E-04	2.3E-03	3.4E-03	5.3E-04	5.7E-04	7.4E-04	7.9E-04	5.5E-04	5.8E-04
	9	40	37.5mph <= speed < 42.5mph	2.8E-04	4.8E-06	1.0E-05	2.4E-05	5.5E-04	2.1E-03	3.1E-03	4.7E-04	5.1E-04	6.7E-04	7.0E-04	4.9E-04	5.2E-04
	10	45	42.5mph <= speed < 47.5mph	2.7E-04	4.6E-06	1.0E-05	2.3E-05	5.0E-04	1.9E-03	2.9E-03	4.2E-04	4.6E-04	6.1E-04	6.2E-04	4.5E-04	4.8E-04
	11	50	47.5mph <= speed < 52.5mph	2.6E-04	4.7E-06	9.9E-06	2.2E-05	4.5E-04	2.3E-03	3.0E-03	3.9E-04	4.2E-04	5.6E-04	5.6E-04	4.1E-04	4.4E-04
	12	55	52.5mph <= speed < 57.5mph	2.5E-04	4.9E-06	1.0E-05	2.2E-05	4.2E-04	2.6E-03	3.1E-03	3.6E-04	3.9E-04	5.2E-04	5.0E-04	3.8E-04	4.1E-04
	13	60	57.5mph <= speed < 62.5mph	2.5E-04	5.1E-06	1.0E-05	2.2E-05	3.8E-04	2.5E-03	2.9E-03	3.3E-04	3.6E-04	4.8E-04	4.6E-04	3.5E-04	3.8E-04
	14	65	62.5mph <= speed < 67.5mph	2.4E-04	5.7E-06	1.1E-05	2.3E-05	3.5E-04	2.4E-03	2.7E-03	3.0E-04	3.3E-04	4.5E-04	4.2E-04	3.2E-04	3.5E-04
	15	70	67.5mph <= speed < 72.5mph	2.4E-04	7.1E-06	1.4E-05	2.6E-05	3.2E-04	2.3E-03	2.5E-03	2.8E-04	3.1E-04	4.1E-04	4.0E-04	3.0E-04	3.2E-04
	16	75	72.5mph <= speed	2.3E-04	9.3E-06	1.7E-05	3.0E-05	3.0E-04	2.2E-03	2.4E-03	2.6E-04	2.9E-04	3.8E-04	3.7E-04	2.8E-04	3.0E-04

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.7E-06	6.7E-07	4.1E-07	5.0E-07	0.0E+00	9.6E-08	1.1E-07	7.9E-09	7.3E-07	5.5E-08	2.4E-06	7.8E-13	0.0E+00
	2	5	2.5mph <= speed < 7.5mph	1.6E-06	4.0E-07	2.7E-07	3.3E-07	0.0E+00	5.7E-08	5.6E-08	5.1E-09	3.6E-07	2.8E-08	1.2E-06	6.0E-13	0.0E+00
	3	10	7.5mph <= speed < 12.5mph	1.0E-06	2.5E-07	1.9E-07	2.3E-07	0.0E+00	4.5E-08	3.4E-08	3.5E-09	2.1E-07	1.6E-08	6.7E-07	4.8E-13	0.0E+00
	4	15	12.5mph <= speed < 17.5mph	6.8E-07	1.7E-07	1.4E-07	1.6E-07	0.0E+00	3.7E-08	2.9E-08	8.0E-09	1.6E-07	1.4E-08	5.3E-07	2.7E-12	0.0E+00
	5	20	17.5mph <= speed < 22.5mph	7.5E-07	1.4E-07	1.2E-07	1.4E-07	0.0E+00	3.6E-08	2.7E-08	5.1E-09	1.4E-07	1.5E-08	4.9E-07	1.5E-12	0.0E+00
	6	25	22.5mph <= speed < 27.5mph	7.9E-07	1.4E-07	1.3E-07	1.5E-07	0.0E+00	3.3E-08	3.2E-08	6.4E-09	1.3E-07	1.8E-08	5.2E-07	2.1E-12	0.0E+00
	7	30	27.5mph <= speed < 32.5mph	1.1E-06	1.6E-07	1.5E-07	1.7E-07	0.0E+00	5.3E-08	5.2E-08	7.7E-09	2.0E-07	5.0E-08	1.0E-06	2.4E-12	0.0E+00
	8	35	32.5mph <= speed < 37.5mph	1.5E-06	2.1E-07	2.1E-07	2.1E-07	0.0E+00	4.6E-08	8.5E-08	5.1E-09	3.2E-07	1.2E-07	2.0E-06	1.1E-12	0.0E+00
	9	40	37.5mph <= speed < 42.5mph	1.8E-06	2.4E-07	2.4E-07	2.5E-07	0.0E+00	6.0E-08	1.6E-07	6.7E-09	4.9E-07	2.5E-07	3.5E-06	1.7E-12	0.0E+00
	10	45	42.5mph <= speed < 47.5mph	1.9E-06	2.7E-07	2.7E-07	2.7E-07	0.0E+00	6.9E-08	2.1E-07	8.5E-09	6.4E-07	3.6E-07	4.7E-06	2.3E-12	0.0E+00
	11	50	47.5mph <= speed < 52.5mph	1.9E-06	2.6E-07	2.7E-07	2.7E-07	0.0E+00	7.6E-08	2.5E-07	8.8E-09	7.1E-07	4.0E-07	5.0E-06	2.4E-12	0.0E+00
	12	55	52.5mph <= speed < 57.5mph	1.7E-06	2.4E-07	2.5E-07	2.6E-07	0.0E+00	8.1E-08	2.8E-07	8.2E-09	6.9E-07	3.9E-07	4.7E-06	2.4E-12	0.0E+00
	13	60	57.5mph <= speed < 62.5mph	1.6E-06	2.3E-07	2.4E-07	2.5E-07	0.0E+00	8.3E-08	2.9E-07	7.8E-09	6.5E-07	3.6E-07	4.2E-06	2.4E-12	0.0E+00
	14	65	62.5mph <= speed < 67.5mph	1.5E-06	2.2E-07	2.3E-07	2.5E-07	0.0E+00	8.5E-08	3.0E-07	7.7E-09	6.1E-07	3.2E-07	4.0E-06	2.6E-12	0.0E+00
	15	70	67.5mph <= speed < 72.5mph	1.5E-06	2.2E-07	2.4E-07	2.6E-07	0.0E+00	8.4E-08	2.8E-07	7.7E-09	5.8E-07	2.9E-07	3.7E-06	2.7E-12	0.0E+00
	16	75	72.5mph <= speed	1.4E-06	2.4E-07	2.5E-07	2.9E-07	0.0E+00	8.6E-08	2.8E-07	7.8E-09	5.7E-07	2.7E-07	3.6E-06	2.9E-12	0.0E+00

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.7E-06	6.7E-07	4.0E-07	4.9E-07	0.0E+00	1.2E-07	1.0E-07	5.7E-09	7.2E-07	5.5E-08	2.4E-06	7.9E-13	0.0E+00
	2	5	2.5mph <= speed < 7.5mph	1.9E-06	4.3E-07	3.0E-07	3.6E-07	0.0E+00	8.3E-08	5.0E-08	4.2E-09	3.6E-07	2.7E-08	1.2E-06	6.2E-13	0.0E+00
	3	10	7.5mph <= speed < 12.5mph	1.5E-06	3.1E-07	2.5E-07	3.0E-07	0.0E+00	3.3E-08	2.6E-08	3.5E-09	2.0E-07	1.6E-08	6.6E-07	5.0E-13	0.0E+00
	4	15	12.5mph <= speed < 17.5mph	1.3E-06	2.7E-07	2.4E-07	2.8E-07	0.0E+00	2.0E-08	1.3E-08	8.5E-09	1.5E-07	1.4E-08	5.1E-07	2.9E-12	0.0E+00
	5	20	17.5mph <= speed < 22.5mph	1.2E-06	2.3E-07	2.2E-07	2.5E-07	0.0E+00	3.3E-08	2.3E-08	5.4E-09	1.3E-07	1.3E-08	4.3E-07	1.6E-12	0.0E+00
	6	25	22.5mph <= speed < 27.5mph	1.1E-06	1.8E-07	1.8E-07	2.1E-07	0.0E+00	4.1E-08	2.9E-08	6.6E-09	1.0E-07	1.1E-08	3.6E-07	2.2E-12	0.0E+00
	7	30	27.5mph <= speed < 32.5mph	9.5E-07	1.6E-07	1.6E-07	1.9E-07	0.0E+00	4.6E-08	3.3E-08	7.5E-09	1.2E-07	1.4E-08	4.1E-07	2.5E-12	0.0E+00
	8	35	32.5mph <= speed < 37.5mph	9.6E-07	1.5E-07	1.5E-07	1.8E-07	0.0E+00	4.0E-08	2.4E-08	3.7E-09	1.3E-07	1.6E-08	4.8E-07	8.5E-13	0.0E+00
	9	40	37.5mph <= speed < 42.5mph	9.8E-07	1.4E-07	1.4E-07	1.7E-07	0.0E+00	3.6E-08	1.8E-08	4.4E-09	1.5E-07	1.8E-08	5.6E-07	1.1E-12	0.0E+00
	10	45	42.5mph <= speed < 47.5mph	1.0E-06	1.3E-07	1.4E-07	1.6E-07	0.0E+00	3.2E-08	1.3E-08	4.8E-09	1.7E-07	2.1E-08	6.3E-07	1.3E-12	0.0E+00
	11	50	47.5mph <= speed < 52.5mph	1.0E-06	1.3E-07	1.4E-07	1.6E-07	0.0E+00	3.6E-08	2.9E-08	4.7E-09	1.8E-07	2.2E-08	6.9E-07	1.2E-12	0.0E+00
	12	55	52.5mph <= speed < 57.5mph	1.0E-06	1.3E-07	1.4E-07	1.7E-07	0.0E+00	4.0E-08	4.2E-08	4.2E-09	1.9E-07	2.4E-08	7.4E-07	8.6E-13	0.0E+00
	13	60	57.5mph <= speed < 62.5mph	1.1E-06	1.3E-07	1.5E-07	1.7E-07	0.0E+00	4.1E-08	4.5E-08	4.2E-09	1.9E-07	2.5E-08	7.7E-07	7.7E-13	0.0E+00
	14	65	62.5mph <= speed < 67.5mph	1.1E-06	1.4E-07	1.6E-07	1.8E-07	0.0E+00	4.4E-08	5.3E-08	4.5E-09	2.1E-07	2.6E-08	8.9E-07	9.8E-13	0.0E+00
	15	70	67.5mph <= speed < 72.5mph	1.1E-06	1.5E-07	1.7E-07	2.0E-07	0.0E+00	4.7E-08	6.1E-08	4.8E-09	2.2E-07	2.7E-08	1.0E-06	1.2E-12	0.0E+00
	16	75	72.5mph <= speed	1.1E-06	1.8E-07	2.0E-07	2.3E-07	0.0E+00	5.0E-08	6.8E-08	5.3E-09	2.4E-07	2.9E-08	1.1E-06	1.5E-12	0.0E+00

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.2E-03	4.5E-05	3.9E-05	8.9E-05	1.6E-03	1.8E-02	2.7E-02	1.0E-03	2.2E-03	2.6E-03	5.0E-03	1.3E-03	1.7E-03
	2	5	2.5mph <= speed < 7.5mph	1.2E-03	2.8E-05	2.6E-05	5.3E-05	8.5E-04	9.0E-03	1.4E-02	5.6E-04	1.2E-03	1.3E-03	2.6E-03	7.1E-04	9.0E-04
	3	10	7.5mph <= speed < 12.5mph	6.4E-04	1.8E-05	1.8E-05	3.3E-05	4.4E-04	4.7E-03	7.7E-03	3.0E-04	6.3E-04	7.0E-04	1.4E-03	3.7E-04	4.7E-04
	4	15	12.5mph <= speed < 17.5mph	4.8E-04	1.3E-05	1.3E-05	2.4E-05	3.1E-04	3.3E-03	5.6E-03	2.1E-04	4.6E-04	5.1E-04	1.1E-03	2.6E-04	3.2E-04
	5	20	17.5mph <= speed < 22.5mph	4.1E-04	1.1E-05	1.1E-05	2.0E-05	2.4E-04	2.6E-03	4.5E-03	1.6E-04	3.7E-04	4.1E-04	8.8E-04	2.0E-04	2.5E-04
	6	25	22.5mph <= speed < 27.5mph	3.6E-04	1.1E-05	1.1E-05	1.9E-05	2.0E-04	2.1E-03	3.7E-03	1.3E-04	3.0E-04	3.4E-04	7.4E-04	1.7E-04	2.1E-04
	7	30	27.5mph <= speed < 32.5mph	3.4E-04	1.2E-05	1.3E-05	2.0E-05	1.7E-04	1.8E-03	3.2E-03	1.2E-04	2.7E-04	2.9E-04	6.7E-04	1.4E-04	1.7E-04
	8	35	32.5mph <= speed < 37.5mph	3.5E-04	1.5E-05	1.7E-05	2.3E-05	1.5E-04	1.7E-03	2.8E-03	1.0E-04	2.4E-04	2.7E-04	6.3E-04	1.3E-04	1.6E-04
	9	40	37.5mph <= speed < 42.5mph	3.5E-04	1.7E-05	2.0E-05	2.5E-05	1.4E-04	1.6E-03	2.6E-03	9.1E-05	2.3E-04	2.5E-04	6.4E-04	1.1E-04	1.4E-04
	10	45	42.5mph <= speed < 47.5mph	3.4E-04	1.9E-05	2.2E-05	2.7E-05	1.2E-04	1.5E-03	2.4E-03	8.3E-05	2.2E-04	2.3E-04	6.5E-04	1.0E-04	1.3E-04
	11	50	47.5mph <= speed < 52.5mph	3.3E-04	1.9E-05	2.2E-05	2.7E-05	1.1E-04	1.4E-03	2.2E-03	7.6E-05	2.0E-04	2.2E-04	6.2E-04	9.3E-05	1.2E-04
	12	55	52.5mph <= speed < 57.5mph	3.2E-04	1.8E-05	2.1E-05	2.6E-05	1.0E-04	1.4E-03	2.0E-03	6.9E-05	1.9E-04	2.0E-04	5.7E-04	8.6E-05	1.1E-04
	13	60	57.5mph <= speed < 62.5mph	3.0E-04	1.7E-05	2.0E-05	2.5E-05	9.0E-05	1.3E-03	1.9E-03	6.3E-05	1.7E-04	1.9E-04	5.1E-04	7.8E-05	9.8E-05
	14	65	62.5mph <= speed < 67.5mph	3.0E-04	1.7E-05	2.1E-05	2.6E-05	8.3E-05	1.2E-03	1.7E-03	5.8E-05	1.6E-04	1.7E-04	4.7E-04	7.2E-05	9.1E-05
	15	70	67.5mph <= speed < 72.5mph	2.9E-04	1.8E-05	2.3E-05	2.9E-05	7.6E-05	1.1E-03	1.5E-03	5.4E-05	1.5E-04	1.6E-04	4.3E-04	6.7E-05	8.5E-05
	16	75	72.5mph <= speed	2.8E-04	2.1E-05	2.6E-05	3.4E-05	7.1E-05	1.1E-03	1.4E-03	5.1E-05	1.4E-04	1.5E-04	4.0E-04	6.3E-05	8.0E-05

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.2E-03	4.5E-05	3.9E-05	8.9E-05	1.5E-03	1.7E-02	2.5E-02	7.7E-04	2.2E-03	2.6E-03	5.0E-03	1.3E-03	1.7E-03
	2	5	2.5mph <= speed < 7.5mph	1.2E-03	3.0E-05	2.8E-05	5.5E-05	8.3E-04	7.8E-03	1.2E-02	4.5E-04	1.1E-03	1.3E-03	2.6E-03	7.1E-04	9.0E-04
	3	10	7.5mph <= speed < 12.5mph	6.8E-04	2.2E-05	2.2E-05	3.8E-05	4.2E-04	4.2E-03	6.6E-03	2.9E-04	6.2E-04	7.0E-04	1.4E-03	3.7E-04	4.7E-04
	4	15	12.5mph <= speed < 17.5mph	5.1E-04	1.9E-05	2.0E-05	3.2E-05	3.1E-04	2.5E-03	3.8E-03	2.1E-04	4.5E-04	5.0E-04	1.0E-03	2.5E-04	3.2E-04
	5	20	17.5mph <= speed < 22.5mph	4.3E-04	1.7E-05	1.8E-05	2.9E-05	2.4E-04	2.0E-03	3.2E-03	1.6E-04	3.6E-04	4.0E-04	8.4E-04	2.0E-04	2.4E-04
	6	25	22.5mph <= speed < 27.5mph	3.7E-04	1.4E-05	1.6E-05	2.4E-05	2.0E-04	1.7E-03	2.8E-03	1.3E-04	2.9E-04	3.4E-04	6.8E-04	1.7E-04	2.1E-04
	7	30	27.5mph <= speed < 32.5mph	3.3E-04	1.3E-05	1.5E-05	2.3E-05	1.7E-04	1.5E-03	2.5E-03	1.2E-04	2.6E-04	2.9E-04	5.9E-04	1.4E-04	1.8E-04
	8	35	32.5mph <= speed < 37.5mph	3.1E-04	1.2E-05	1.4E-05	2.1E-05	1.5E-04	1.3E-03	2.2E-03	1.0E-04	2.3E-04	2.6E-04	5.1E-04	1.3E-04	1.6E-04
	9	40	37.5mph <= speed < 42.5mph	3.0E-04	1.1E-05	1.3E-05	2.0E-05	1.4E-04	1.2E-03	2.0E-03	9.1E-05	2.0E-04	2.4E-04	4.5E-04	1.1E-04	1.4E-04
	10	45	42.5mph <= speed < 47.5mph	2.9E-04	1.0E-05	1.3E-05	1.9E-05	1.2E-04	1.1E-03	1.9E-03	8.2E-05	1.9E-04	2.2E-04	4.1E-04	1.0E-04	1.3E-04
	11	50	47.5mph <= speed < 52.5mph	2.8E-04	1.0E-05	1.3E-05	1.9E-05	1.1E-04	1.2E-03	1.9E-03	7.4E-05	1.7E-04	2.0E-04	3.7E-04	9.3E-05	1.2E-04
	12	55	52.5mph <= speed < 57.5mph	2.8E-04	1.1E-05	1.3E-05	1.9E-05	1.0E-04	1.4E-03	2.0E-03	6.7E-05	1.6E-04	1.9E-04	3.4E-04	8.5E-05	1.1E-04
	13	60	57.5mph <= speed < 62.5mph	2.8E-04	1.1E-05	1.4E-05	2.0E-05	9.0E-05	1.3E-03	1.9E-03	6.1E-05	1.5E-04	1.7E-04	3.0E-04	7.8E-05	9.7E-05
	14	65	62.5mph <= speed < 67.5mph	2.8E-04	1.2E-05	1.5E-05	2.1E-05	8.2E-05	1.2E-03	1.7E-03	5.7E-05	1.3E-04	1.6E-04	2.9E-04	7.2E-05	9.0E-05
	15	70	67.5mph <= speed < 72.5mph	2.7E-04	1.4E-05	1.8E-05	2.4E-05	7.5E-05	1.1E-03	1.5E-03	5.3E-05	1.3E-04	1.4E-04	2.7E-04	6.7E-05	8.4E-05
	16	75	72.5mph <= speed	2.7E-04	1.7E-05	2.3E-05	3.0E-05	7.0E-05	1.1E-03	1.3E-03	5.0E-05	1.2E-04	1.3E-04	2.6E-04	6.3E-05	7.9E-05

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.0E+00	9.0E-03	7.1E-02	6.3E-02	1.5E-01	1.6E-01	1.2E-01	1.7E-01	1.2E-01	1.2E-01	1.2E-01	1.5E-01	1.6E-01
	2	5	2.5mph <= speed < 7.5mph	0.0E+00	5.2E-03	3.8E-02	3.3E-02	8.2E-02	8.6E-02	5.9E-02	9.1E-02	5.8E-02	5.9E-02	5.9E-02	7.9E-02	8.7E-02
	3	10	7.5mph <= speed < 12.5mph	0.0E+00	3.1E-03	2.1E-02	1.8E-02	5.2E-02	5.5E-02	3.4E-02	5.7E-02	3.3E-02	3.2E-02	3.2E-02	4.9E-02	5.5E-02
	4	15	12.5mph <= speed < 17.5mph	0.0E+00	2.1E-03	1.3E-02	1.2E-02	4.4E-02	4.5E-02	2.5E-02	5.2E-02	2.5E-02	2.4E-02	2.4E-02	4.3E-02	5.0E-02
	5	20	17.5mph <= speed < 22.5mph	0.0E+00	1.7E-03	9.0E-03	8.0E-03	3.9E-02	4.1E-02	2.1E-02	4.7E-02	2.1E-02	2.0E-02	2.0E-02	3.9E-02	4.5E-02
	6	25	22.5mph <= speed < 27.5mph	0.0E+00	1.7E-03	7.9E-03	7.0E-03	3.6E-02	3.8E-02	1.8E-02	4.4E-02	1.8E-02	1.8E-02	1.7E-02	3.6E-02	4.2E-02
	7	30	27.5mph <= speed < 32.5mph	0.0E+00	1.8E-03	7.3E-03	6.6E-03	3.5E-02	3.6E-02	1.7E-02	4.3E-02	1.7E-02	1.7E-02	1.7E-02	3.5E-02	4.1E-02
	8	35	32.5mph <= speed < 37.5mph	0.0E+00	2.0E-03	7.2E-03	6.5E-03	2.8E-02	2.9E-02	1.5E-02	3.4E-02	1.5E-02	1.5E-02	1.5E-02	2.8E-02	3.2E-02
	9	40	37.5mph <= speed < 42.5mph	0.0E+00	2.2E-03	7.1E-03	6.5E-03	2.6E-02	2.7E-02	1.4E-02	3.2E-02	1.4E-02	1.5E-02	1.4E-02	2.6E-02	3.0E-02
	10	45	42.5mph <= speed < 47.5mph	0.0E+00	2.3E-03	7.0E-03	6.5E-03	2.4E-02	2.5E-02	1.4E-02	3.0E-02	1.4E-02	1.4E-02	1.4E-02	2.5E-02	2.8E-02
	11	50	47.5mph <= speed < 52.5mph	0.0E+00	2.3E-03	6.8E-03	6.2E-03	2.2E-02	2.3E-02	1.3E-02	2.7E-02	1.3E-02	1.4E-02	1.4E-02	2.2E-02	2.5E-02
	12	55	52.5mph <= speed < 57.5mph	0.0E+00	2.1E-03	6.5E-03	6.0E-03	2.1E-02	2.1E-02	1.3E-02	2.3E-02	1.3E-02	1.3E-02	1.3E-02	1.9E-02	2.2E-02
	13	60	57.5mph <= speed < 62.5mph	0.0E+00	2.0E-03	6.3E-03	5.8E-03	1.9E-02	2.0E-02	1.2E-02	2.2E-02	1.2E-02	1.2E-02	1.3E-02	1.8E-02	2.0E-02
	14	65	62.5mph <= speed < 67.5mph	0.0E+00	2.1E-03	6.3E-03	5.8E-03	1.9E-02	2.0E-02	1.2E-02	2.2E-02	1.1E-02	1.1E-02	1.2E-02	1.9E-02	2.1E-02
	15	70	67.5mph <= speed < 72.5mph	0.0E+00	2.1E-03	6.2E-03	5.8E-03	1.9E-02	2.0E-02	1.2E-02	2.2E-02	1.1E-02	1.1E-02	1.2E-02	1.9E-02	2.1E-02
	16	75	72.5mph <= speed	0.0E+00	2.4E-03	6.2E-03	5.9E-03	1.9E-02	2.1E-02	1.1E-02	2.3E-02	1.0E-02	1.0E-02	1.1E-02	1.9E-02	2.2E-02

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	0.0E+00	9.0E-03	7.2E-02	6.4E-02	1.5E-01	1.6E-01	1.2E-01	1.4E-01	1.2E-01	1.2E-01	1.2E-01	1.5E-01	1.6E-01
	2	5	2.5mph <= speed < 7.5mph	0.0E+00	5.2E-03	3.7E-02	3.3E-02	8.2E-02	8.5E-02	6.0E-02	8.4E-02	5.7E-02	5.9E-02	5.9E-02	7.8E-02	8.7E-02
	3	10	7.5mph <= speed < 12.5mph	0.0E+00	3.4E-03	2.0E-02	1.8E-02	5.3E-02	4.7E-02	3.1E-02	5.7E-02	3.3E-02	3.2E-02	3.2E-02	4.9E-02	5.6E-02
	4	15	12.5mph <= speed < 17.5mph	0.0E+00	2.7E-03	1.4E-02	1.3E-02	4.5E-02	2.5E-02	1.9E-02	5.3E-02	2.4E-02	2.4E-02	2.4E-02	4.4E-02	5.1E-02
	5	20	17.5mph <= speed < 22.5mph	0.0E+00	2.4E-03	1.1E-02	1.0E-02	4.0E-02	2.4E-02	1.6E-02	4.8E-02	2.0E-02	2.0E-02	2.0E-02	4.0E-02	4.6E-02
	6	25	22.5mph <= speed < 27.5mph	0.0E+00	2.0E-03	8.9E-03	8.1E-03	3.7E-02	2.4E-02	1.4E-02	4.5E-02	1.7E-02	1.8E-02	1.7E-02	3.7E-02	4.3E-02
	7	30	27.5mph <= speed < 32.5mph	0.0E+00	1.8E-03	7.3E-03	6.7E-03	3.5E-02	2.3E-02	1.3E-02	4.2E-02	1.6E-02	1.6E-02	1.6E-02	3.5E-02	4.1E-02
	8	35	32.5mph <= speed < 37.5mph	0.0E+00	1.7E-03	6.6E-03	6.1E-03	2.7E-02	2.3E-02	1.2E-02	3.2E-02	1.4E-02	1.4E-02	1.4E-02	2.7E-02	3.1E-02
	9	40	37.5mph <= speed < 42.5mph	0.0E+00	1.6E-03	6.2E-03	5.7E-03	2.5E-02	2.3E-02	1.1E-02	3.0E-02	1.3E-02	1.3E-02	1.3E-02	2.5E-02	2.9E-02
	10	45	42.5mph <= speed < 47.5mph	0.0E+00	1.6E-03	6.0E-03	5.5E-03	2.3E-02	2.3E-02	1.0E-02	2.8E-02	1.3E-02	1.3E-02	1.3E-02	2.3E-02	2.7E-02
	11	50	47.5mph <= speed < 52.5mph	0.0E+00	1.6E-03	5.9E-03	5.4E-03	2.1E-02	2.1E-02	1.1E-02	2.4E-02	1.2E-02	1.2E-02	1.3E-02	2.1E-02	2.3E-02
	12	55	52.5mph <= speed < 57.5mph	0.0E+00	1.6E-03	5.9E-03	5.4E-03	1.9E-02	1.9E-02	1.3E-02	2.0E-02	1.2E-02	1.2E-02	1.3E-02	1.8E-02	1.9E-02
	13	60	57.5mph <= speed < 62.5mph	0.0E+00	1.6E-03	5.9E-03	5.4E-03	1.8E-02	1.7E-02	1.2E-02	1.9E-02	1.1E-02	1.1E-02	1.2E-02	1.7E-02	1.8E-02
	14	65	62.5mph <= speed < 67.5mph	0.0E+00	1.6E-03	5.9E-03	5.5E-03	1.8E-02	1.8E-02	1.2E-02	1.9E-02	1.0E-02	1.0E-02	1.2E-02	1.7E-02	1.9E-02
	15	70	67.5mph <= speed < 72.5mph	0.0E+00	1.8E-03	5.9E-03	5.5E-03	1.8E-02	1.8E-02	1.1E-02	2.0E-02	1.0E-02	9.8E-03	1.1E-02	1.7E-02	1.9E-02
	16	75	72.5mph <= speed	0.0E+00	2.1E-03	6.0E-03	5.6E-03	1.8E-02	1.9E-02	1.1E-02	2.1E-02	9.7E-03	9.5E-03	1.1E-02	1.8E-02	2.0E-02

No Motorcycle output for Diesel fuel (for Diesel PM)

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.3E-01	6.7E-04	6.1E-04	7.7E-04	6.6E-03	8.4E-03	7.7E-03	6.7E-03	2.1E-02	6.6E-03	4.3E-02	6.5E-03	6.5E-03
	2	5	2.5mph <= speed < 7.5mph	6.8E-02	4.1E-04	3.7E-04	4.7E-04	3.6E-03	4.9E-03	4.2E-03	3.9E-03	1.2E-02	3.6E-03	2.4E-02	3.7E-03	3.7E-03
	3	10	7.5mph <= speed < 12.5mph	3.7E-02	2.6E-04	2.4E-04	3.1E-04	1.9E-03	2.9E-03	2.2E-03	2.1E-03	6.7E-03	1.8E-03	1.3E-02	2.0E-03	2.0E-03
	4	15	12.5mph <= speed < 17.5mph	2.8E-02	1.9E-04	1.8E-04	2.3E-04	1.3E-03	2.1E-03	1.6E-03	1.4E-03	5.1E-03	1.3E-03	1.0E-02	1.3E-03	1.3E-03
	5	20	17.5mph <= speed < 22.5mph	2.3E-02	1.6E-04	1.5E-04	1.9E-04	1.0E-03	1.7E-03	1.3E-03	1.0E-03	4.2E-03	1.0E-03	8.8E-03	9.9E-04	9.9E-04
	6	25	22.5mph <= speed < 27.5mph	2.0E-02	1.5E-04	1.4E-04	1.8E-04	8.3E-04	1.3E-03	1.0E-03	8.7E-04	3.5E-03	8.4E-04	7.4E-03	8.4E-04	8.4E-04
	7	30	27.5mph <= speed < 32.5mph	1.8E-02	1.5E-04	1.5E-04	1.9E-04	7.1E-04	1.2E-03	8.8E-04	7.4E-04	3.1E-03	7.2E-04	6.5E-03	7.1E-04	7.1E-04
	8	35	32.5mph <= speed < 37.5mph	1.7E-02	1.7E-04	1.8E-04	2.1E-04	6.5E-04	9.7E-04	7.9E-04	6.6E-04	2.5E-03	6.6E-04	5.3E-03	6.3E-04	6.3E-04
	9	40	37.5mph <= speed < 42.5mph	1.6E-02	1.9E-04	2.0E-04	2.3E-04	5.8E-04	8.4E-04	7.0E-04	5.8E-04	2.1E-03	5.9E-04	4.4E-03	5.6E-04	5.6E-04
	10	45	42.5mph <= speed < 47.5mph	1.6E-02	2.0E-04	2.1E-04	2.5E-04	5.2E-04	7.3E-04	6.3E-04	5.3E-04	1.8E-03	5.4E-04	3.8E-03	5.1E-04	5.1E-04
	11	50	47.5mph <= speed < 52.5mph	1.5E-02	2.0E-04	2.2E-04	2.5E-04	4.8E-04	6.4E-04	5.7E-04	4.8E-04	1.5E-03	5.0E-04	3.1E-03	4.6E-04	4.6E-04
	12	55	52.5mph <= speed < 57.5mph	1.4E-02	1.9E-04	2.1E-04	2.5E-04	4.4E-04	5.7E-04	5.2E-04	4.4E-04	1.3E-03	4.6E-04	2.6E-03	4.3E-04	4.3E-04
	13	60	57.5mph <= speed < 62.5mph	1.4E-02	1.9E-04	2.1E-04	2.5E-04	4.0E-04	5.0E-04	4.8E-04	4.0E-04	1.1E-03	4.2E-04	2.1E-03	3.9E-04	3.9E-04
	14	65	62.5mph <= speed < 67.5mph	1.4E-02	2.0E-04	2.3E-04	2.7E-04	3.7E-04	4.7E-04	4.4E-04	3.7E-04	1.0E-03	3.9E-04	2.0E-03	3.6E-04	3.6E-04
	15	70	67.5mph <= speed < 72.5mph	1.3E-02	2.4E-04	2.7E-04	3.2E-04	3.4E-04	4.4E-04	4.0E-04	3.4E-04	9.4E-04	3.6E-04	1.9E-03	3.3E-04	3.3E-04
	16	75	72.5mph <= speed	1.3E-02	2.9E-04	3.2E-04	3.9E-04	3.2E-04	4.2E-04	3.7E-04	3.2E-04	8.9E-04	3.4E-04	1.9E-03	3.1E-04	3.1E-04

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	1.3E-01	6.7E-04	6.0E-04	7.6E-04	5.9E-03	7.8E-03	6.8E-03	5.0E-03	2.1E-02	6.6E-03	4.3E-02	6.5E-03	6.5E-03
	2	5	2.5mph <= speed < 7.5mph	6.8E-02	4.1E-04	3.8E-04	4.8E-04	3.5E-03	4.0E-03	3.1E-03	3.0E-03	1.1E-02	3.5E-03	2.3E-02	3.7E-03	3.7E-03
	3	10	7.5mph <= speed < 12.5mph	3.8E-02	2.9E-04	2.7E-04	3.4E-04	1.8E-03	2.2E-03	1.7E-03	1.9E-03	6.6E-03	1.8E-03	1.3E-02	2.0E-03	2.0E-03
	4	15	12.5mph <= speed < 17.5mph	2.8E-02	2.4E-04	2.3E-04	2.9E-04	1.3E-03	1.2E-03	9.5E-04	1.4E-03	4.9E-03	1.3E-03	9.8E-03	1.3E-03	1.3E-03
	5	20	17.5mph <= speed < 22.5mph	2.3E-02	2.2E-04	2.1E-04	2.6E-04	1.0E-03	1.1E-03	8.1E-04	1.0E-03	3.9E-03	1.0E-03	7.9E-03	9.9E-04	9.9E-04
	6	25	22.5mph <= speed < 27.5mph	2.0E-02	1.9E-04	1.9E-04	2.3E-04	8.2E-04	1.0E-03	7.3E-04	8.7E-04	3.0E-03	8.3E-04	6.1E-03	8.3E-04	8.3E-04
	7	30	27.5mph <= speed < 32.5mph	1.8E-02	1.8E-04	1.7E-04	2.2E-04	7.0E-04	9.5E-04	6.7E-04	7.3E-04	2.6E-03	7.1E-04	5.3E-03	7.0E-04	7.0E-04
	8	35	32.5mph <= speed < 37.5mph	1.7E-02	1.6E-04	1.7E-04	2.1E-04	6.5E-04	8.2E-04	5.9E-04	6.6E-04	2.1E-03	6.6E-04	4.1E-03	6.3E-04	6.3E-04
	9	40	37.5mph <= speed < 42.5mph	1.6E-02	1.5E-04	1.6E-04	2.0E-04	5.8E-04	7.2E-04	5.3E-04	5.8E-04	1.7E-03	5.9E-04	3.3E-03	5.6E-04	5.6E-04
	10	45	42.5mph <= speed < 47.5mph	1.5E-02	1.4E-04	1.5E-04	1.9E-04	5.3E-04	6.5E-04	4.8E-04	5.2E-04	1.4E-03	5.4E-04	2.7E-03	5.1E-04	5.1E-04
	11	50	47.5mph <= speed < 52.5mph	1.5E-02	1.4E-04	1.5E-04	1.9E-04	4.8E-04	5.7E-04	4.9E-04	4.8E-04	1.1E-03	5.0E-04	2.1E-03	4.7E-04	4.6E-04
	12	55	52.5mph <= speed < 57.5mph	1.4E-02	1.4E-04	1.6E-04	1.9E-04	4.4E-04	5.1E-04	5.0E-04	4.4E-04	9.1E-04	4.6E-04	1.6E-03	4.3E-04	4.3E-04
	13	60	57.5mph <= speed < 62.5mph	1.4E-02	1.5E-04	1.7E-04	2.0E-04	4.0E-04	4.5E-04	4.6E-04	4.0E-04	7.5E-04	4.2E-04	1.3E-03	3.9E-04	3.9E-04
	14	65	62.5mph <= speed < 67.5mph	1.4E-02	1.6E-04	1.9E-04	2.3E-04	3.7E-04	4.2E-04	4.2E-04	3.7E-04	7.0E-04	3.9E-04	1.3E-03	3.6E-04	3.6E-04
	15	70	67.5mph <= speed < 72.5mph	1.4E-02	2.0E-04	2.3E-04	2.8E-04	3.4E-04	4.0E-04	3.9E-04	3.4E-04	6.7E-04	3.6E-04	1.3E-03	3.3E-04	3.3E-04
	16	75	72.5mph <= speed	1.3E-02	2.6E-04	2.9E-04	3.6E-04	3.2E-04	3.8E-04	3.6E-04	3.2E-04	6.5E-04	3.4E-04	1.3E-03	3.1E-04	3.1E-04

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	5.1E-02	1.4E-04	1.0E-03	2.2E-03	1.1E-01	1.3E-01	1.1E-01	1.1E-01	8.2E-02	1.1E-01	7.4E-02	1.1E-01	1.1E-01
	2	5	2.5mph <= speed < 7.5mph	2.6E-02	1.0E-04	5.6E-04	1.2E-03	6.1E-02	7.4E-02	6.2E-02	6.4E-02	4.4E-02	6.0E-02	4.0E-02	6.3E-02	6.3E-02
	3	10	7.5mph <= speed < 12.5mph	1.4E-02	7.7E-05	3.2E-04	6.5E-04	3.2E-02	4.2E-02	3.3E-02	3.4E-02	2.3E-02	3.1E-02	2.1E-02	3.3E-02	3.3E-02
	4	15	12.5mph <= speed < 17.5mph	1.1E-02	5.8E-05	2.4E-04	4.9E-04	2.3E-02	3.1E-02	2.3E-02	2.3E-02	1.7E-02	2.2E-02	1.5E-02	2.2E-02	2.2E-02
	5	20	17.5mph <= speed < 22.5mph	9.1E-03	5.1E-05	1.9E-04	3.9E-04	1.8E-02	2.4E-02	1.8E-02	1.7E-02	1.3E-02	1.7E-02	1.2E-02	1.7E-02	1.7E-02
	6	25	22.5mph <= speed < 27.5mph	7.9E-03	4.9E-05	1.7E-04	3.4E-04	1.4E-02	2.0E-02	1.5E-02	1.4E-02	1.1E-02	1.4E-02	1.0E-02	1.4E-02	1.4E-02
	7	30	27.5mph <= speed < 32.5mph	7.1E-03	5.3E-05	1.6E-04	3.1E-04	1.2E-02	1.7E-02	1.3E-02	1.2E-02	9.2E-03	1.2E-02	8.7E-03	1.2E-02	1.2E-02
	8	35	32.5mph <= speed < 37.5mph	6.7E-03	6.5E-05	1.6E-04	3.0E-04	1.1E-02	1.4E-02	1.1E-02	1.1E-02	8.3E-03	1.1E-02	7.7E-03	1.1E-02	1.1E-02
	9	40	37.5mph <= speed < 42.5mph	6.3E-03	7.4E-05	1.6E-04	2.9E-04	9.8E-03	1.3E-02	1.0E-02	9.6E-03	7.4E-03	1.0E-02	6.8E-03	9.5E-03	9.5E-03
	10	45	42.5mph <= speed < 47.5mph	6.1E-03	7.9E-05	1.6E-04	2.9E-04	8.8E-03	1.1E-02	9.3E-03	8.7E-03	6.7E-03	9.1E-03	6.1E-03	8.5E-03	8.5E-03
	11	50	47.5mph <= speed < 52.5mph	5.9E-03	8.0E-05	1.6E-04	2.8E-04	8.0E-03	9.7E-03	8.5E-03	8.0E-03	6.1E-03	8.3E-03	5.5E-03	7.8E-03	7.8E-03
	12	55	52.5mph <= speed < 57.5mph	5.7E-03	7.8E-05	1.5E-04	2.7E-04	7.4E-03	8.6E-03	7.9E-03	7.4E-03	5.6E-03	7.7E-03	4.9E-03	7.2E-03	7.2E-03
	13	60	57.5mph <= speed < 62.5mph	5.5E-03	7.7E-05	1.5E-04	2.6E-04	6.8E-03	7.7E-03	7.3E-03	6.7E-03	5.2E-03	7.1E-03	4.5E-03	6.6E-03	6.6E-03
	14	65	62.5mph <= speed < 67.5mph	5.4E-03	8.3E-05	1.5E-04	2.6E-04	6.2E-03	7.2E-03	6.7E-03	6.2E-03	4.8E-03	6.6E-03	4.1E-03	6.1E-03	6.1E-03
	15	70	67.5mph <= speed < 72.5mph	5.3E-03	9.8E-05	1.7E-04	2.8E-04	5.8E-03	6.7E-03	6.1E-03	5.7E-03	4.4E-03	6.1E-03	3.8E-03	5.6E-03	5.6E-03
	16	75	72.5mph <= speed	5.1E-03	1.2E-04	1.8E-04	3.0E-04	5.4E-03	6.4E-03	5.6E-03	5.3E-03	4.1E-03	5.7E-03	3.5E-03	5.2E-03	5.2E-03

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	5.0E-02	1.4E-04	1.0E-03	2.2E-03	9.9E-02	1.2E-01	1.0E-01	8.3E-02	8.2E-02	1.1E-01	7.4E-02	1.1E-01	1.1E-01
	2	5	2.5mph <= speed < 7.5mph	2.7E-02	1.1E-04	5.6E-04	1.2E-03	6.0E-02	5.9E-02	4.6E-02	4.9E-02	4.4E-02	5.9E-02	3.9E-02	6.3E-02	6.3E-02
	3	10	7.5mph <= speed < 12.5mph	1.5E-02	8.8E-05	3.3E-04	6.7E-04	3.0E-02	3.2E-02	2.6E-02	3.2E-02	2.3E-02	3.1E-02	2.1E-02	3.3E-02	3.3E-02
	4	15	12.5mph <= speed < 17.5mph	1.1E-02	8.1E-05	2.5E-04	5.0E-04	2.3E-02	1.8E-02	1.4E-02	2.3E-02	1.7E-02	2.2E-02	1.5E-02	2.2E-02	2.2E-02
	5	20	17.5mph <= speed < 22.5mph	9.0E-03	7.6E-05	2.1E-04	4.2E-04	1.7E-02	1.6E-02	1.2E-02	1.7E-02	1.3E-02	1.7E-02	1.2E-02	1.7E-02	1.7E-02
	6	25	22.5mph <= speed < 27.5mph	7.7E-03	6.6E-05	1.8E-04	3.5E-04	1.4E-02	1.5E-02	1.0E-02	1.4E-02	1.0E-02	1.4E-02	9.5E-03	1.4E-02	1.4E-02
	7	30	27.5mph <= speed < 32.5mph	6.9E-03	6.4E-05	1.6E-04	3.2E-04	1.2E-02	1.4E-02	9.3E-03	1.2E-02	9.0E-03	1.2E-02	8.2E-03	1.2E-02	1.2E-02
	8	35	32.5mph <= speed < 37.5mph	6.5E-03	6.0E-05	1.5E-04	2.9E-04	1.1E-02	1.2E-02	8.3E-03	1.1E-02	8.1E-03	1.1E-02	7.3E-03	1.1E-02	1.1E-02
	9	40	37.5mph <= speed < 42.5mph	6.2E-03	5.6E-05	1.4E-04	2.7E-04	9.8E-03	1.1E-02	7.6E-03	9.7E-03	7.3E-03	1.0E-02	6.4E-03	9.5E-03	9.5E-03
	10	45	42.5mph <= speed < 47.5mph	6.0E-03	5.4E-05	1.4E-04	2.6E-04	8.9E-03	9.5E-03	7.0E-03	8.7E-03	6.6E-03	9.1E-03	5.7E-03	8.6E-03	8.6E-03
	11	50	47.5mph <= speed < 52.5mph	5.8E-03	5.5E-05	1.3E-04	2.5E-04	8.1E-03	8.6E-03	7.4E-03	8.0E-03	6.0E-03	8.4E-03	5.1E-03	7.8E-03	7.8E-03
	12	55	52.5mph <= speed < 57.5mph	5.6E-03	5.7E-05	1.3E-04	2.4E-04	7.4E-03	7.9E-03	7.8E-03	7.4E-03	5.5E-03	7.8E-03	4.6E-03	7.2E-03	7.2E-03
	13	60	57.5mph <= speed < 62.5mph	5.5E-03	6.0E-05	1.3E-04	2.4E-04	6.7E-03	7.1E-03	7.3E-03	6.7E-03	5.0E-03	7.2E-03	4.1E-03	6.6E-03	6.6E-03
	14	65	62.5mph <= speed < 67.5mph	5.4E-03	6.7E-05	1.4E-04	2.4E-04	6.2E-03	6.6E-03	6.6E-03	6.2E-03	4.6E-03	6.6E-03	3.8E-03	6.1E-03	6.1E-03
	15	70	67.5mph <= speed < 72.5mph	5.3E-03	8.3E-05	1.5E-04	2.6E-04	5.7E-03	6.2E-03	6.1E-03	5.7E-03	4.3E-03	6.1E-03	3.5E-03	5.6E-03	5.6E-03
	16	75	72.5mph <= speed	5.2E-03	1.1E-04	1.7E-04	2.9E-04	5.4E-03	5.9E-03	5.6E-03	5.3E-03	4.0E-03	5.7E-03	3.3E-03	5.2E-03	5.2E-03

Urban Restricted	avgSpeedBinID	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61
	1	2.5	0	speed < 2.5mph	0.0E+00	5.8E-08	3.4E-06	7.6E-06	4.1E-04	3.5E-04	4.2E-04	4.1E-04	2.8E-04	4.1E-04	2.2E-04	4.0E-04
	2	5	2.5	2.5mph <= speed < 7.5mph	0.0E+00	4.1E-08	1.8E-06	4.0E-06	2.2E-04	1.9E-04	2.3E-04	2.4E-04	1.5E-04	2.2E-04	1.2E-04	2.3E-04
	3	10	7.5	7.5mph <= speed < 12.5mph	0.0E+00	3.1E-08	9.4E-07	2.1E-06	1.2E-04	1.0E-04	1.2E-04	1.2E-04	7.9E-05	1.1E-04	6.0E-05	1.2E-04
	4	15	12.5	12.5mph <= speed < 17.5mph	0.0E+00	2.3E-08	7.0E-07	1.6E-06	8.4E-05	7.1E-05	8.5E-05	8.3E-05	5.6E-05	8.2E-05	4.3E-05	8.2E-05
	5	20	17.5	17.5mph <= speed < 22.5mph	0.0E+00	2.0E-08	5.5E-07	1.2E-06	6.5E-05	5.5E-05	6.6E-05	6.3E-05	4.4E-05	6.4E-05	3.4E-05	6.2E-05
	6	25	22.5	22.5mph <= speed < 27.5mph	0.0E+00	2.0E-08	4.6E-07	1.1E-06	5.2E-05	4.4E-05	5.4E-05	5.3E-05	3.5E-05	5.2E-05	2.7E-05	5.2E-05
	7	30	27.5	27.5mph <= speed < 32.5mph	0.0E+00	2.1E-08	4.1E-07	9.3E-07	4.4E-05	3.7E-05	4.6E-05	4.5E-05	3.0E-05	4.4E-05	2.3E-05	4.4E-05
	8	35	32.5	32.5mph <= speed < 37.5mph	0.0E+00	2.6E-08	3.7E-07	8.5E-07	4.0E-05	3.4E-05	4.2E-05	4.0E-05	2.8E-05	4.1E-05	2.1E-05	3.9E-05
	9	40	37.5	37.5mph <= speed < 42.5mph	0.0E+00	2.9E-08	3.4E-07	7.9E-07	3.6E-05	3.1E-05	3.8E-05	3.5E-05	2.5E-05	3.7E-05	1.9E-05	3.5E-05
	10	45	42.5	42.5mph <= speed < 47.5mph	0.0E+00	3.1E-08	3.2E-07	7.4E-07	3.3E-05	2.8E-05	3.4E-05	3.2E-05	2.3E-05	3.3E-05	1.8E-05	3.1E-05
	11	50	47.5	47.5mph <= speed < 52.5mph	0.0E+00	3.2E-08	3.0E-07	7.0E-07	3.0E-05	2.5E-05	3.1E-05	2.9E-05	2.1E-05	3.1E-05	1.6E-05	2.9E-05
	12	55	52.5	52.5mph <= speed < 57.5mph	0.0E+00	3.1E-08	2.8E-07	6.6E-07	2.7E-05	2.3E-05	2.9E-05	2.7E-05	1.9E-05	2.8E-05	1.5E-05	2.7E-05
	13	60	57.5	57.5mph <= speed < 62.5mph	0.0E+00	3.1E-08	2.7E-07	6.2E-07	2.5E-05	2.1E-05	2.7E-05	2.5E-05	1.8E-05	2.6E-05	1.4E-05	2.4E-05
	14	65	62.5	62.5mph <= speed < 67.5mph	0.0E+00	3.3E-08	2.6E-07	6.0E-07	2.3E-05	1.9E-05	2.4E-05	2.3E-05	1.6E-05	2.4E-05	1.3E-05	2.2E-05
	15	70	67.5	67.5mph <= speed < 72.5mph	0.0E+00	3.9E-08	2.4E-07	5.8E-07	2.1E-05	1.8E-05	2.2E-05	2.1E-05	1.5E-05	2.2E-05	1.2E-05	2.1E-05
	16	75	72.5	72.5mph <= speed	0.0E+00	4.8E-08	2.3E-07	5.7E-07	2.0E-05	1.7E-05	2.1E-05	2.0E-05	1.4E-05	2.1E-05	1.1E-05	1.9E-05

Urban Unrestricted	avgSpeedBinID	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61
	1	2.5	0	speed < 2.5mph	0.0E+00	5.7E-08	3.4E-06	7.6E-06	3.7E-04	3.1E-04	3.7E-04	3.1E-04	2.8E-04	4.1E-04	2.1E-04	4.0E-04
	2	5	2.5	2.5mph <= speed < 7.5mph	0.0E+00	4.2E-08	1.8E-06	4.0E-06	2.2E-04	1.4E-04	1.7E-04	1.8E-04	1.5E-04	2.2E-04	1.1E-04	2.3E-04
	3	10	7.5	7.5mph <= speed < 12.5mph	0.0E+00	3.5E-08	9.5E-07	2.1E-06	1.1E-04	7.9E-05	9.4E-05	1.2E-04	7.8E-05	1.1E-04	6.0E-05	1.2E-04
	4	15	12.5	12.5mph <= speed < 17.5mph	0.0E+00	3.3E-08	6.8E-07	1.5E-06	8.3E-05	4.4E-05	5.2E-05	8.3E-05	5.5E-05	8.1E-05	4.3E-05	8.1E-05
	5	20	17.5	17.5mph <= speed < 22.5mph	0.0E+00	3.0E-08	5.4E-07	1.2E-06	6.4E-05	3.6E-05	4.3E-05	6.2E-05	4.3E-05	6.3E-05	3.4E-05	6.1E-05
	6	25	22.5	22.5mph <= speed < 27.5mph	0.0E+00	2.6E-08	4.5E-07	1.0E-06	5.1E-05	3.2E-05	3.8E-05	5.2E-05	3.5E-05	5.2E-05	2.7E-05	5.2E-05
	7	30	27.5	27.5mph <= speed < 32.5mph	0.0E+00	2.6E-08	4.0E-07	9.1E-07	4.4E-05	2.9E-05	3.4E-05	4.4E-05	3.0E-05	4.4E-05	2.3E-05	4.4E-05
	8	35	32.5	32.5mph <= speed < 37.5mph	0.0E+00	2.4E-08	3.6E-07	8.3E-07	4.0E-05	2.5E-05	3.1E-05	4.0E-05	2.8E-05	4.1E-05	2.1E-05	3.9E-05
	9	40	37.5	32.5mph <= speed < 37.5mph	0.0E+00	2.2E-08	3.4E-07	7.7E-07	3.6E-05	2.3E-05	2.8E-05	3.6E-05	2.5E-05	3.7E-05	1.9E-05	3.5E-05
	10	45	42.5	32.5mph <= speed < 37.5mph	0.0E+00	2.1E-08	3.2E-07	7.3E-07	3.3E-05	2.1E-05	2.6E-05	3.2E-05	2.3E-05	3.4E-05	1.8E-05	3.2E-05
	11	50	47.5	32.5mph <= speed < 37.5mph	0.0E+00	2.2E-08	3.0E-07	6.8E-07	3.0E-05	2.2E-05	2.7E-05	2.9E-05	2.1E-05	3.1E-05	1.6E-05	2.9E-05
	12	55	52.5	32.5mph <= speed < 37.5mph	0.0E+00	2.3E-08	2.8E-07	6.5E-07	2.7E-05	2.3E-05	2.9E-05	2.7E-05	1.9E-05	2.9E-05	1.5E-05	2.7E-05
	13	60	57.5	32.5mph <= speed < 37.5mph	0.0E+00	2.4E-08	2.7E-07	6.2E-07	2.5E-05	2.1E-05	2.7E-05	2.5E-05	1.8E-05	2.6E-05	1.4E-05	2.4E-05
	14	65	62.5	32.5mph <= speed < 37.5mph	0.0E+00	2.7E-08	2.6E-07	6.0E-07	2.3E-05	1.9E-05	2.4E-05	2.3E-05	1.6E-05	2.4E-05	1.3E-05	2.2E-05
	15	70	67.5	32.5mph <= speed < 37.5mph	0.0E+00	3.3E-08	2.4E-07	5.8E-07	2.1E-05	1.8E-05	2.2E-05	2.1E-05	1.5E-05	2.2E-05	1.1E-05	2.1E-05
	16	75	72.5	32.5mph <= speed < 37.5mph	0.0E+00	4.4E-08	2.3E-07	5.7E-07	2.0E-05	1.7E-05	2.0E-05	1.9E-05	1.4E-05	2.1E-05	1.0E-05	1.9E-05

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.1E-03	6.1E-06	4.7E-05	1.0E-04	5.1E-03	4.4E-03	5.3E-03	5.1E-03	3.8E-03	5.1E-03	3.3E-03	5.0E-03	5.0E-03
	2	5	2.5mph <= speed < 7.5mph	1.1E-03	4.3E-06	2.5E-05	5.4E-05	2.8E-03	2.4E-03	2.9E-03	2.9E-03	2.0E-03	2.8E-03	1.8E-03	2.9E-03	2.9E-03
	3	10	7.5mph <= speed < 12.5mph	6.0E-04	3.3E-06	1.4E-05	3.0E-05	1.5E-03	1.3E-03	1.5E-03	1.6E-03	1.1E-03	1.4E-03	9.5E-04	1.5E-03	1.5E-03
	4	15	12.5mph <= speed < 17.5mph	4.5E-04	2.5E-06	1.1E-05	2.2E-05	1.0E-03	9.0E-04	1.1E-03	1.0E-03	7.7E-04	1.0E-03	7.0E-04	1.0E-03	1.0E-03
	5	20	17.5mph <= speed < 22.5mph	3.8E-04	2.2E-06	8.7E-06	1.8E-05	8.1E-04	7.0E-04	8.3E-04	7.8E-04	6.0E-04	8.0E-04	5.6E-04	7.7E-04	7.7E-04
	6	25	22.5mph <= speed < 27.5mph	3.3E-04	2.1E-06	7.6E-06	1.5E-05	6.4E-04	5.6E-04	6.7E-04	6.6E-04	4.9E-04	6.5E-04	4.5E-04	6.5E-04	6.5E-04
	7	30	27.5mph <= speed < 32.5mph	2.9E-04	2.3E-06	7.0E-06	1.4E-05	5.5E-04	4.7E-04	5.8E-04	5.6E-04	4.2E-04	5.6E-04	3.9E-04	5.5E-04	5.5E-04
	8	35	32.5mph <= speed < 37.5mph	2.8E-04	2.8E-06	7.1E-06	1.3E-05	5.0E-04	4.3E-04	5.2E-04	5.0E-04	3.8E-04	5.1E-04	3.5E-04	4.9E-04	4.9E-04
	9	40	37.5mph <= speed < 42.5mph	2.6E-04	3.1E-06	7.2E-06	1.3E-05	4.5E-04	3.9E-04	4.7E-04	4.4E-04	3.4E-04	4.6E-04	3.1E-04	4.4E-04	4.4E-04
	10	45	42.5mph <= speed < 47.5mph	2.5E-04	3.3E-06	7.2E-06	1.3E-05	4.1E-04	3.5E-04	4.3E-04	4.0E-04	3.1E-04	4.2E-04	2.8E-04	3.9E-04	3.9E-04
	11	50	47.5mph <= speed < 52.5mph	2.4E-04	3.4E-06	7.0E-06	1.2E-05	3.7E-04	3.2E-04	3.9E-04	3.7E-04	2.8E-04	3.8E-04	2.5E-04	3.6E-04	3.6E-04
	12	55	52.5mph <= speed < 57.5mph	2.4E-04	3.3E-06	6.7E-06	1.2E-05	3.4E-04	2.9E-04	3.6E-04	3.4E-04	2.6E-04	3.6E-04	2.2E-04	3.3E-04	3.3E-04
	13	60	57.5mph <= speed < 62.5mph	2.3E-04	3.3E-06	6.5E-06	1.1E-05	3.1E-04	2.7E-04	3.3E-04	3.1E-04	2.4E-04	3.3E-04	2.0E-04	3.0E-04	3.0E-04
	14	65	62.5mph <= speed < 67.5mph	2.3E-04	3.5E-06	6.7E-06	1.2E-05	2.9E-04	2.5E-04	3.1E-04	2.8E-04	2.2E-04	3.0E-04	1.9E-04	2.8E-04	2.8E-04
	15	70	67.5mph <= speed < 72.5mph	2.2E-04	4.2E-06	7.2E-06	1.2E-05	2.7E-04	2.3E-04	2.8E-04	2.6E-04	2.0E-04	2.8E-04	1.7E-04	2.6E-04	2.6E-04
	16	75	72.5mph <= speed	2.1E-04	5.1E-06	7.9E-06	1.3E-05	2.5E-04	2.1E-04	2.6E-04	2.4E-04	1.9E-04	2.6E-04	1.6E-04	2.4E-04	2.4E-04

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.1E-03	6.0E-06	4.7E-05	1.0E-04	4.6E-03	3.9E-03	4.7E-03	3.8E-03	3.7E-03	5.1E-03	3.3E-03	5.1E-03	5.1E-03
	2	5	2.5mph <= speed < 7.5mph	1.1E-03	4.5E-06	2.6E-05	5.4E-05	2.7E-03	1.8E-03	2.1E-03	2.3E-03	2.0E-03	2.7E-03	1.8E-03	2.9E-03	2.9E-03
	3	10	7.5mph <= speed < 12.5mph	6.2E-04	3.7E-06	1.5E-05	3.1E-05	1.4E-03	1.0E-03	1.2E-03	1.5E-03	1.1E-03	1.4E-03	9.4E-04	1.5E-03	1.5E-03
	4	15	12.5mph <= speed < 17.5mph	4.6E-04	3.4E-06	1.1E-05	2.3E-05	1.0E-03	5.6E-04	6.6E-04	1.0E-03	7.6E-04	1.0E-03	6.8E-04	1.0E-03	1.0E-03
	5	20	17.5mph <= speed < 22.5mph	3.7E-04	3.2E-06	9.5E-06	1.9E-05	8.0E-04	4.6E-04	5.4E-04	7.8E-04	5.9E-04	7.9E-04	5.4E-04	7.6E-04	7.6E-04
	6	25	22.5mph <= speed < 27.5mph	3.2E-04	2.8E-06	8.1E-06	1.6E-05	6.4E-04	4.0E-04	4.8E-04	6.6E-04	4.8E-04	6.4E-04	4.3E-04	6.5E-04	6.5E-04
	7	30	27.5mph <= speed < 32.5mph	2.9E-04	2.7E-06	7.3E-06	1.4E-05	5.5E-04	3.7E-04	4.3E-04	5.6E-04	4.1E-04	5.5E-04	3.7E-04	5.5E-04	5.5E-04
	8	35	32.5mph <= speed < 37.5mph	2.7E-04	2.5E-06	6.8E-06	1.3E-05	5.0E-04	3.2E-04	3.8E-04	5.0E-04	3.7E-04	5.1E-04	3.3E-04	4.9E-04	4.9E-04
	9	40	37.5mph <= speed < 42.5mph	2.6E-04	2.3E-06	6.4E-06	1.2E-05	4.5E-04	2.9E-04	3.5E-04	4.4E-04	3.3E-04	4.6E-04	2.9E-04	4.4E-04	4.4E-04
	10	45	42.5mph <= speed < 47.5mph	2.5E-04	2.3E-06	6.1E-06	1.2E-05	4.1E-04	2.7E-04	3.2E-04	4.0E-04	3.0E-04	4.2E-04	2.6E-04	3.9E-04	3.9E-04
	11	50	47.5mph <= speed < 52.5mph	2.4E-04	2.3E-06	5.9E-06	1.1E-05	3.7E-04	2.8E-04	3.4E-04	3.7E-04	2.7E-04	3.9E-04	2.3E-04	3.6E-04	3.6E-04
	12	55	52.5mph <= speed < 57.5mph	2.3E-04	2.4E-06	5.8E-06	1.1E-05	3.4E-04	2.9E-04	3.6E-04	3.4E-04	2.5E-04	3.6E-04	2.1E-04	3.3E-04	3.3E-04
	13	60	57.5mph <= speed < 62.5mph	2.3E-04	2.5E-06	5.8E-06	1.1E-05	3.1E-04	2.7E-04	3.4E-04	3.1E-04	2.3E-04	3.3E-04	1.9E-04	3.0E-04	3.0E-04
	14	65	62.5mph <= speed < 67.5mph	2.3E-04	2.8E-06	6.0E-06	1.1E-05	2.9E-04	2.4E-04	3.1E-04	2.8E-04	2.1E-04	3.0E-04	1.7E-04	2.8E-04	2.8E-04
	15	70	67.5mph <= speed < 72.5mph	2.2E-04	3.5E-06	6.7E-06	1.2E-05	2.6E-04	2.3E-04	2.8E-04	2.6E-04	2.0E-04	2.8E-04	1.6E-04	2.6E-04	2.6E-04
	16	75	72.5mph <= speed	2.2E-04	4.6E-06	7.6E-06	1.3E-05	2.5E-04	2.1E-04	2.6E-04	2.4E-04	1.8E-04	2.6E-04	1.5E-04	2.4E-04	2.4E-04

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.6E-06	3.2E-07	2.2E-07	2.7E-07	0.0E+00	1.1E-07	3.6E-08	8.6E-09	7.4E-07	0.0E+00	1.9E-06	0.0E+00	0.0E+00
	2	5	2.5mph <= speed < 7.5mph	1.6E-06	1.8E-07	1.4E-07	1.7E-07	0.0E+00	6.5E-08	1.8E-08	5.5E-09	3.7E-07	0.0E+00	9.3E-07	0.0E+00	0.0E+00
	3	10	7.5mph <= speed < 12.5mph	1.0E-06	1.1E-07	9.8E-08	1.2E-07	0.0E+00	4.9E-08	1.1E-08	3.8E-09	2.1E-07	0.0E+00	5.1E-07	0.0E+00	0.0E+00
	4	15	12.5mph <= speed < 17.5mph	6.6E-07	7.4E-08	7.1E-08	8.7E-08	0.0E+00	4.0E-08	8.2E-09	8.8E-09	1.6E-07	0.0E+00	3.9E-07	0.0E+00	0.0E+00
	5	20	17.5mph <= speed < 22.5mph	7.3E-07	6.1E-08	6.3E-08	7.4E-08	0.0E+00	4.0E-08	7.1E-09	5.6E-09	1.4E-07	0.0E+00	3.4E-07	0.0E+00	0.0E+00
	6	25	22.5mph <= speed < 27.5mph	7.6E-07	5.9E-08	6.5E-08	7.7E-08	0.0E+00	3.7E-08	6.9E-09	7.0E-09	1.3E-07	0.0E+00	3.4E-07	0.0E+00	0.0E+00
	7	30	27.5mph <= speed < 32.5mph	1.1E-06	6.2E-08	7.4E-08	8.7E-08	0.0E+00	6.0E-08	9.5E-09	8.4E-09	2.0E-07	0.0E+00	5.6E-07	0.0E+00	0.0E+00
	8	35	32.5mph <= speed < 37.5mph	1.5E-06	7.0E-08	9.9E-08	1.1E-07	0.0E+00	5.4E-08	1.3E-08	5.6E-09	3.1E-07	0.0E+00	8.9E-07	0.0E+00	0.0E+00
	9	40	37.5mph <= speed < 42.5mph	1.7E-06	7.7E-08	1.2E-07	1.2E-07	0.0E+00	6.9E-08	1.9E-08	7.3E-09	4.6E-07	0.0E+00	1.4E-06	0.0E+00	0.0E+00
	10	45	42.5mph <= speed < 47.5mph	1.9E-06	8.1E-08	1.3E-07	1.4E-07	0.0E+00	8.0E-08	2.3E-08	9.3E-09	6.0E-07	0.0E+00	1.8E-06	0.0E+00	0.0E+00
	11	50	47.5mph <= speed < 52.5mph	1.8E-06	8.0E-08	1.3E-07	1.4E-07	0.0E+00	8.8E-08	2.6E-08	9.6E-09	6.6E-07	0.0E+00	1.9E-06	0.0E+00	0.0E+00
	12	55	52.5mph <= speed < 57.5mph	1.7E-06	7.5E-08	1.2E-07	1.3E-07	0.0E+00	9.5E-08	2.9E-08	9.0E-09	6.5E-07	0.0E+00	1.8E-06	0.0E+00	0.0E+00
	13	60	57.5mph <= speed < 62.5mph	1.6E-06	7.2E-08	1.1E-07	1.2E-07	0.0E+00	9.8E-08	2.9E-08	8.6E-09	6.1E-07	0.0E+00	1.6E-06	0.0E+00	0.0E+00
	14	65	62.5mph <= speed < 67.5mph	1.5E-06	7.2E-08	1.1E-07	1.2E-07	0.0E+00	1.0E-07	3.0E-08	8.4E-09	5.7E-07	0.0E+00	1.6E-06	0.0E+00	0.0E+00
	15	70	67.5mph <= speed < 72.5mph	1.4E-06	7.5E-08	1.1E-07	1.3E-07	0.0E+00	9.9E-08	3.0E-08	8.4E-09	5.5E-07	0.0E+00	1.6E-06	0.0E+00	0.0E+00
	16	75	72.5mph <= speed	1.4E-06	8.4E-08	1.2E-07	1.4E-07	0.0E+00	9.9E-08	3.1E-08	8.6E-09	5.4E-07	0.0E+00	1.6E-06	0.0E+00	0.0E+00

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.6E-06	3.2E-07	2.2E-07	2.7E-07	0.0E+00	1.4E-07	3.4E-08	6.2E-09	7.4E-07	0.0E+00	1.8E-06	0.0E+00	0.0E+00
	2	5	2.5mph <= speed < 7.5mph	1.8E-06	1.8E-07	1.6E-07	1.9E-07	0.0E+00	9.2E-08	1.5E-08	4.6E-09	3.7E-07	0.0E+00	9.1E-07	0.0E+00	0.0E+00
	3	10	7.5mph <= speed < 12.5mph	1.4E-06	1.2E-07	1.3E-07	1.5E-07	0.0E+00	3.6E-08	8.2E-09	3.9E-09	2.1E-07	0.0E+00	5.0E-07	0.0E+00	0.0E+00
	4	15	12.5mph <= speed < 17.5mph	1.3E-06	9.6E-08	1.2E-07	1.4E-07	0.0E+00	2.2E-08	4.4E-09	9.3E-09	1.6E-07	0.0E+00	3.7E-07	0.0E+00	0.0E+00
	5	20	17.5mph <= speed < 22.5mph	1.2E-06	8.3E-08	1.1E-07	1.3E-07	0.0E+00	3.5E-08	5.6E-09	5.9E-09	1.3E-07	0.0E+00	3.1E-07	0.0E+00	0.0E+00
	6	25	22.5mph <= speed < 27.5mph	1.0E-06	7.0E-08	9.1E-08	1.1E-07	0.0E+00	4.3E-08	6.4E-09	7.2E-09	1.0E-07	0.0E+00	2.5E-07	0.0E+00	0.0E+00
	7	30	27.5mph <= speed < 32.5mph	9.2E-07	6.4E-08	8.3E-08	9.9E-08	0.0E+00	4.8E-08	6.9E-09	8.2E-09	1.2E-07	0.0E+00	2.8E-07	0.0E+00	0.0E+00
	8	35	32.5mph <= speed < 37.5mph	9.3E-07	6.0E-08	7.7E-08	9.2E-08	0.0E+00	4.3E-08	5.3E-09	4.1E-09	1.3E-07	0.0E+00	3.3E-07	0.0E+00	0.0E+00
	9	40	37.5mph <= speed < 42.5mph	9.5E-07	5.7E-08	7.3E-08	8.7E-08	0.0E+00	4.0E-08	4.1E-09	4.8E-09	1.5E-07	0.0E+00	3.8E-07	0.0E+00	0.0E+00
	10	45	42.5mph <= speed < 47.5mph	9.7E-07	5.5E-08	7.0E-08	8.4E-08	0.0E+00	3.7E-08	3.2E-09	5.3E-09	1.7E-07	0.0E+00	4.2E-07	0.0E+00	0.0E+00
	11	50	47.5mph <= speed < 52.5mph	9.8E-07	5.5E-08	7.0E-08	8.4E-08	0.0E+00	4.6E-08	7.3E-09	5.1E-09	1.8E-07	0.0E+00	4.6E-07	0.0E+00	0.0E+00
	12	55	52.5mph <= speed < 57.5mph	1.0E-06	5.6E-08	7.1E-08	8.6E-08	0.0E+00	5.3E-08	1.1E-08	4.6E-09	1.9E-07	0.0E+00	4.9E-07	0.0E+00	0.0E+00
	13	60	57.5mph <= speed < 62.5mph	1.1E-06	5.6E-08	7.3E-08	8.8E-08	0.0E+00	5.5E-08	1.1E-08	4.6E-09	1.9E-07	0.0E+00	5.0E-07	0.0E+00	0.0E+00
	14	65	62.5mph <= speed < 67.5mph	1.1E-06	5.8E-08	7.7E-08	9.2E-08	0.0E+00	5.8E-08	1.3E-08	5.0E-09	2.1E-07	0.0E+00	5.9E-07	0.0E+00	0.0E+00
	15	70	67.5mph <= speed < 72.5mph	1.1E-06	6.3E-08	8.4E-08	1.0E-07	0.0E+00	6.1E-08	1.5E-08	5.3E-09	2.2E-07	0.0E+00	6.8E-07	0.0E+00	0.0E+00
	16	75	72.5mph <= speed	1.1E-06	7.4E-08	9.6E-08	1.1E-07	0.0E+00	6.3E-08	1.6E-08	5.8E-09	2.4E-07	0.0E+00	7.8E-07	0.0E+00	0.0E+00

Urban Restricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.0E-03	2.1E-05	2.1E-05	3.2E-05	7.3E-04	6.6E-04	7.5E-04	7.4E-04	7.7E-04	7.2E-04	1.0E-03	7.2E-04	7.2E-04
	2	5	2.5mph <= speed < 7.5mph	1.1E-03	1.3E-05	1.3E-05	2.0E-05	4.0E-04	3.7E-04	4.0E-04	4.2E-04	4.1E-04	3.8E-04	5.6E-04	4.1E-04	4.1E-04
	3	10	7.5mph <= speed < 12.5mph	5.9E-04	8.1E-06	8.9E-06	1.3E-05	2.1E-04	2.0E-04	2.1E-04	2.3E-04	2.3E-04	2.0E-04	3.1E-04	2.2E-04	2.2E-04
	4	15	12.5mph <= speed < 17.5mph	4.4E-04	5.7E-06	6.6E-06	9.4E-06	1.6E-04	1.5E-04	1.5E-04	1.6E-04	1.7E-04	1.4E-04	2.4E-04	1.5E-04	1.6E-04
	5	20	17.5mph <= speed < 22.5mph	3.8E-04	4.8E-06	5.8E-06	7.9E-06	1.2E-04	1.2E-04	1.2E-04	1.2E-04	1.4E-04	1.1E-04	2.0E-04	1.2E-04	1.2E-04
	6	25	22.5mph <= speed < 27.5mph	3.3E-04	4.6E-06	5.7E-06	7.7E-06	1.0E-04	9.5E-05	9.8E-05	1.1E-04	1.1E-04	9.2E-05	1.7E-04	1.0E-04	1.0E-04
	7	30	27.5mph <= speed < 32.5mph	3.2E-04	4.9E-06	6.2E-06	8.2E-06	8.7E-05	8.4E-05	8.4E-05	9.2E-05	1.0E-04	8.0E-05	1.6E-04	8.7E-05	8.9E-05
	8	35	32.5mph <= speed < 37.5mph	3.2E-04	5.7E-06	7.8E-06	9.4E-06	7.8E-05	7.4E-05	7.7E-05	8.0E-05	9.5E-05	7.3E-05	1.5E-04	7.6E-05	7.8E-05
	9	40	37.5mph <= speed < 42.5mph	3.2E-04	6.4E-06	8.9E-06	1.1E-05	7.0E-05	6.7E-05	7.0E-05	7.2E-05	9.3E-05	6.6E-05	1.6E-04	6.8E-05	7.0E-05
	10	45	42.5mph <= speed < 47.5mph	3.2E-04	6.7E-06	9.7E-06	1.1E-05	6.3E-05	6.2E-05	6.4E-05	6.6E-05	9.2E-05	6.1E-05	1.7E-04	6.2E-05	6.3E-05
	11	50	47.5mph <= speed < 52.5mph	3.1E-04	6.7E-06	9.8E-06	1.1E-05	5.8E-05	5.7E-05	5.9E-05	6.0E-05	8.8E-05	5.6E-05	1.6E-04	5.6E-05	5.8E-05
	12	55	52.5mph <= speed < 57.5mph	3.0E-04	6.4E-06	9.3E-06	1.1E-05	5.3E-05	5.2E-05	5.5E-05	5.5E-05	8.2E-05	5.2E-05	1.5E-04	5.2E-05	5.3E-05
	13	60	57.5mph <= speed < 62.5mph	2.8E-04	6.2E-06	8.9E-06	1.1E-05	4.9E-05	4.8E-05	5.1E-05	5.0E-05	7.5E-05	4.8E-05	1.3E-04	4.8E-05	4.8E-05
	14	65	62.5mph <= speed < 67.5mph	2.8E-04	6.4E-06	9.0E-06	1.1E-05	4.6E-05	4.6E-05	4.7E-05	4.7E-05	6.9E-05	4.4E-05	1.3E-04	4.4E-05	4.5E-05
	15	70	67.5mph <= speed < 72.5mph	2.7E-04	7.1E-06	9.7E-06	1.2E-05	4.3E-05	4.3E-05	4.4E-05	4.4E-05	6.5E-05	4.1E-05	1.2E-04	4.2E-05	4.3E-05
	16	75	72.5mph <= speed	2.6E-04	8.4E-06	1.1E-05	1.3E-05	4.1E-05	4.1E-05	4.1E-05	4.2E-05	6.3E-05	3.9E-05	1.2E-04	4.0E-05	4.1E-05

Urban Unrestricted	avgSpeedBinID	avgBinS	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	speed < 2.5mph	2.0E-03	2.1E-05	2.1E-05	3.2E-05	6.6E-04	6.0E-04	6.7E-04	5.6E-04	7.6E-04	7.2E-04	1.0E-03	7.2E-04	7.3E-04
	2	5	2.5mph <= speed < 7.5mph	1.1E-03	1.3E-05	1.4E-05	2.1E-05	3.9E-04	2.9E-04	3.1E-04	3.3E-04	4.1E-04	3.8E-04	5.5E-04	4.1E-04	4.1E-04
	3	10	7.5mph <= speed < 12.5mph	6.3E-04	8.9E-06	1.1E-05	1.5E-05	2.1E-04	1.6E-04	1.7E-04	2.2E-04	2.3E-04	2.0E-04	3.1E-04	2.2E-04	2.2E-04
	4	15	12.5mph <= speed < 17.5mph	4.7E-04	7.6E-06	9.6E-06	1.3E-05	1.5E-04	8.8E-05	9.5E-05	1.6E-04	1.6E-04	1.4E-04	2.3E-04	1.5E-04	1.6E-04
	5	20	17.5mph <= speed < 22.5mph	4.0E-04	6.7E-06	8.7E-06	1.2E-05	1.2E-04	7.6E-05	7.9E-05	1.2E-04	1.3E-04	1.1E-04	1.8E-04	1.2E-04	1.2E-04
	6	25	22.5mph <= speed < 27.5mph	3.4E-04	5.8E-06	7.6E-06	1.0E-05	9.9E-05	6.9E-05	7.0E-05	1.1E-04	1.0E-04	9.1E-05	1.4E-04	1.0E-04	1.0E-04
	7	30	27.5mph <= speed < 32.5mph	3.1E-04	5.4E-06	7.0E-06	9.3E-06	8.6E-05	6.4E-05	6.3E-05	9.1E-05	9.1E-05	7.9E-05	1.3E-04	8.7E-05	8.9E-05
	8	35	32.5mph <= speed < 37.5mph	2.9E-04	5.0E-06	6.5E-06	8.6E-06	7.8E-05	5.7E-05	5.6E-05	7.9E-05	7.9E-05	7.2E-05	1.1E-04	7.6E-05	7.8E-05
	9	40	37.5mph <= speed < 42.5mph	2.8E-04	4.7E-06	6.2E-06	8.1E-06	6.9E-05	5.2E-05	5.1E-05	7.1E-05	7.1E-05	6.5E-05	9.6E-05	6.8E-05	6.9E-05
	10	45	42.5mph <= speed < 47.5mph	2.7E-04	4.6E-06	6.0E-06	7.8E-06	6.3E-05	4.8E-05	4.7E-05	6.5E-05	6.4E-05	6.0E-05	8.6E-05	6.2E-05	6.3E-05
	11	50	47.5mph <= speed < 52.5mph	2.6E-04	4.6E-06	6.0E-06	7.8E-06	5.7E-05	4.8E-05	5.1E-05	5.9E-05	5.8E-05	5.5E-05	7.8E-05	5.6E-05	5.7E-05
	12	55	52.5mph <= speed < 57.5mph	2.6E-04	4.7E-06	6.1E-06	7.9E-06	5.3E-05	4.8E-05	5.3E-05	5.3E-05	5.3E-05	5.1E-05	7.1E-05	5.1E-05	5.2E-05
	13	60	57.5mph <= speed < 62.5mph	2.6E-04	4.8E-06	6.3E-06	8.2E-06	4.8E-05	4.5E-05	5.0E-05	4.9E-05	4.9E-05	4.8E-05	6.6E-05	4.7E-05	4.7E-05
	14	65	62.5mph <= speed < 67.5mph	2.6E-04	5.1E-06	6.8E-06	8.7E-06	4.5E-05	4.2E-05	4.6E-05	4.6E-05	4.6E-05	4.4E-05	6.8E-05	4.4E-05	4.4E-05
	15	70	67.5mph <= speed < 72.5mph	2.5E-04	6.0E-06	7.9E-06	9.9E-06	4.2E-05	4.0E-05	4.2E-05	4.3E-05	4.5E-05	4.1E-05	7.0E-05	4.1E-05	4.2E-05
	16	75	72.5mph <= speed	2.5E-04	7.4E-06	9.4E-06	1.2E-05	4.0E-05	3.8E-05	3.9E-05	4.1E-05	4.4E-05	3.8E-05	7.5E-05	3.9E-05	4.0E-05

Operational Greenhouse Gas Analysis


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sourcetypeid="62" sourcetyponame="Combination Long-haul Truck"/>
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    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="41" sourcetyponame="Intercity Bus"/>
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sourcetypeid="21" sourcetyponame="Passenger Car"/>
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sourcetypeid="31" sourcetyponame="Passenger Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="51" sourcetyponame="Refuse Truck"/>
    <onroadvehicleselection fueltypeid="2" fueltypedesc="Diesel Fuel"
sourcetypeid="43" sourcetyponame="School Bus"/>
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sourcetypeid="53" sourcetyponame="Single Unit Long-haul Truck"/>
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sourcetypeid="42" sourcetyponame="Transit Bus"/>
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sourcetypeid="32" sourcetyponame="Light Commercial Truck"/>
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sourcetypeid="21" sourcetyponame="Passenger Car"/>
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sourcetypeid="32" sourcetyponame="Light Commercial Truck"/>
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sourcetypeid="21" sourcetyponame="Passenger Car"/>
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sourcetypeid="31" sourcetyponame="Passenger Truck"/>
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sourcetypeid="61" sourcetyponame="Combination Short-haul Truck"/>
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sourcetypeid="32" sourcetyponame="Light Commercial Truck"/>

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sourcetypeid="31" sourcetyponame="Passenger Truck"/>
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sourcetypeid="51" sourcetyponame="Refuse Truck"/>
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(aerosol)" processkey="1" processname="Running Exhaust"/>
    <pollutantprocessassociation pollutantkey="5" pollutantname="Methane
(CH4)" processkey="1" processname="Running Exhaust"/>
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(N2O)" processkey="15" processname="Crankcase Running Exhaust"/>
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Exhaust PM2.5 - Total" processkey="1" processname="Running Exhaust"/>
    <pollutantprocessassociation pollutantkey="106" pollutantname="Primary
PM10 - Brakewear Particulate" processkey="9" processname="Brakewear"/>
    <pollutantprocessassociation pollutantkey="107" pollutantname="Primary
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PM2.5 - Brakewear Particulate" processkey="9" processname="Brakewear"/>
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PM2.5 - Tirewear Particulate" processkey="10" processname="Tirewear"/>
    <pollutantprocessassociation pollutantkey="115" pollutantname="Sulfate
Particulate" processkey="1" processname="Running Exhaust"/>
    <pollutantprocessassociation pollutantkey="91" pollutantname="Total Energy
Consumption" processkey="1" processname="Running Exhaust"/>

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20433_i81_ghg_2020_24H4S.mrs
    <pollutantprocessassociation pollutantkey="1" pollutantname="Total Gaseous
Hydrocarbons" processkey="1" processname="Running Exhaust"/>
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Hydrocarbons" processkey="15" processname="Crankcase Running Exhaust"/>
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description=""/>
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  </internalcontrolstrategies>
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  <donotexecute>

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20433_i81_ghg_2020_24H4S.mrs
  <donotperformfinalaggregation selected="false"/>
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CO2e 98
2020

Urban Restricted	avgSp	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	0	speed < 2.5mph	992.3	1684.6	2036.0	2150.8	7786.5	7588.8	7509.3	8048.7	6997.2	7495.1	6455.3	7831.3	7911.9
	2	5	2.5	2.5mph <= speed < 7.5mph	569.6	927.0	1133.0	1205.6	4276.8	4250.9	3777.6	4486.9	3494.1	3667.8	3286.6	4412.4	4465.2
	3	10	7.5	7.5mph <= speed < 12.5mph	362.2	549.6	682.0	726.0	2813.4	2823.4	2258.5	2787.6	2065.8	2068.5	1897.3	2741.4	2819.3
	4	15	12.5	12.5mph <= speed < 17.5mph	306.9	433.5	538.6	572.0	2389.8	2345.2	1807.7	2485.5	1663.9	1625.8	1573.0	2423.5	2510.2
	5	20	17.5	17.5mph <= speed < 22.5mph	271.9	363.4	450.8	475.9	2148.6	2076.5	1570.5	2199.2	1447.0	1395.1	1408.3	2137.1	2216.5
	6	25	22.5	22.5mph <= speed < 27.5mph	255.7	323.9	404.7	428.2	1979.6	1900.9	1395.3	2058.6	1288.3	1263.4	1288.9	2000.9	2076.6
	7	30	27.5	27.5mph <= speed < 32.5mph	250.1	301.2	378.6	400.5	1944.6	1860.3	1345.0	2034.8	1255.4	1196.7	1262.9	1966.7	2046.2
	8	35	32.5	32.5mph <= speed < 37.5mph	261.6	294.5	373.6	391.8	1655.2	1577.0	1172.0	1733.6	1111.5	1074.0	1145.0	1677.9	1746.9
	9	40	37.5	37.5mph <= speed < 42.5mph	269.6	289.3	369.3	386.3	1613.6	1528.9	1119.7	1700.8	1063.2	1019.8	1115.8	1645.9	1715.9
	10	45	42.5	42.5mph <= speed < 47.5mph	275.6	284.5	365.3	380.6	1581.7	1488.9	1073.8	1673.8	1020.3	970.5	1088.6	1621.5	1692.9
	11	50	47.5	47.5mph <= speed < 52.5mph	279.9	276.8	357.3	371.6	1552.4	1455.7	1022.8	1602.7	972.1	913.1	1049.1	1561.4	1630.6
	12	55	52.5	52.5mph <= speed < 57.5mph	283.5	269.4	349.7	362.9	1526.7	1427.8	978.8	1532.1	929.9	862.9	1013.4	1497.8	1560.1
	13	60	57.5	57.5mph <= speed < 62.5mph	287.6	264.4	345.1	358.0	1545.1	1405.3	925.5	1558.2	866.6	808.2	959.9	1521.9	1565.9
	14	65	62.5	62.5mph <= speed < 67.5mph	297.0	266.5	351.4	364.6	1615.7	1480.7	1007.5	1634.6	871.8	805.8	995.5	1618.7	1661.5
	15	70	67.5	67.5mph <= speed < 72.5mph	303.1	274.3	365.2	379.2	1681.1	1551.5	1087.3	1697.5	879.9	806.6	1031.5	1701.7	1743.5
	16	75	72.5	72.5mph <= speed	300.5	286.6	383.3	398.3	1770.4	1639.3	1175.4	1790.0	909.0	829.6	1085.4	1813.1	1851.3

Urban Unrestricted	avgSp	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	0	speed < 2.5mph	968.8	1651.2	2001.0	2129.2	7445.9	7389.9	6799.7	5705.2	6946.7	7431.0	6412.6	7880.3	7963.9
	2	5	2.5	2.5mph <= speed < 7.5mph	575.5	927.4	1131.7	1204.5	4203.5	3953.8	3046.4	3739.1	3429.5	3585.1	3234.1	4390.0	4444.9
	3	10	7.5	7.5mph <= speed < 12.5mph	378.9	565.4	697.1	742.1	2795.4	2177.8	1750.0	2756.0	2055.5	2041.4	1883.7	2768.6	2852.3
	4	15	12.5	12.5mph <= speed < 17.5mph	313.4	444.8	552.2	588.0	2435.8	1113.4	854.2	2531.9	1644.4	1595.9	1535.0	2475.6	2569.4
	5	20	17.5	17.5mph <= speed < 22.5mph	280.3	382.1	477.7	508.6	2185.6	1149.8	861.0	2227.1	1403.2	1348.6	1333.6	2176.4	2262.3
	6	25	22.5	22.5mph <= speed < 27.5mph	259.8	339.7	428.8	456.2	2000.7	1171.7	865.1	2069.4	1220.2	1199.5	1177.0	2028.0	2110.1
	7	30	27.5	27.5mph <= speed < 32.5mph	244.9	303.8	382.8	406.8	1956.2	1186.3	867.9	2024.6	1165.3	1106.2	1128.5	1986.2	2072.3
	8	35	32.5	32.5mph <= speed < 37.5mph	250.1	286.4	363.9	385.6	1630.9	1125.4	805.1	1680.9	992.4	954.5	982.8	1663.9	1738.4
	9	40	37.5	37.5mph <= speed < 42.5mph	257.6	275.4	353.0	373.1	1572.1	1079.8	757.9	1627.8	922.5	875.0	937.5	1617.4	1693.4
	10	45	42.5	42.5mph <= speed < 47.5mph	264.4	267.4	344.8	363.6	1526.3	1044.3	721.3	1586.4	866.9	811.3	901.0	1581.2	1658.4
	11	50	47.5	47.5mph <= speed < 52.5mph	271.2	261.7	338.6	356.4	1488.4	1195.7	787.9	1505.7	812.2	745.1	861.4	1509.1	1583.9
	12	55	52.5	52.5mph <= speed < 57.5mph	280.1	258.4	336.4	353.6	1457.5	1319.5	842.5	1426.6	767.4	690.9	828.9	1436.9	1504.3
	13	60	57.5	57.5mph <= speed < 62.5mph	291.3	257.2	338.1	354.8	1477.0	1308.5	792.3	1457.7	703.7	635.3	781.5	1462.8	1510.5
	14	65	62.5	62.5mph <= speed < 67.5mph	300.3	258.9	343.5	360.0	1555.7	1393.2	883.2	1546.3	716.8	639.6	831.0	1569.6	1615.9
	15	70	67.5	67.5mph <= speed < 72.5mph	306.9	267.0	357.9	375.0	1627.8	1474.1	972.5	1622.2	733.6	647.4	880.9	1661.1	1706.3
	16	75	72.5	72.5mph <= speed	307.1	281.5	379.4	396.5	1726.2	1573.0	1071.6	1727.5	770.7	678.0	948.2	1783.8	1825.1

CO2e 98
2030

Urban Restricted	avgSp	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	0	speed < 2.5mph	996.2	1190.5	1481.5	1584.0	7448.7	7533.9	7352.8	7686.4	6636.8	7122.0	6467.8	7548.0	7650.4
	2	5	2.5	2.5mph <= speed < 7.5mph	571.9	655.3	824.8	887.7	4100.5	4142.6	3694.9	4304.0	3314.7	3485.1	3257.9	4261.0	4326.8
	3	10	7.5	7.5mph <= speed < 12.5mph	363.7	388.6	496.9	534.4	2697.2	2707.3	2205.2	2675.4	1958.6	1965.4	1882.0	2645.7	2715.2
	4	15	12.5	12.5mph <= speed < 17.5mph	308.2	306.6	392.4	421.0	2289.5	2246.6	1760.9	2377.4	1577.0	1542.9	1551.4	2333.8	2412.0
	5	20	17.5	17.5mph <= speed < 22.5mph	273.1	257.0	328.5	350.4	2056.9	1986.4	1528.0	2100.2	1372.1	1323.5	1380.9	2054.3	2119.0
	6	25	22.5	22.5mph <= speed < 27.5mph	257.0	229.1	294.9	315.2	1895.0	1824.5	1357.6	1968.2	1221.7	1199.3	1257.4	1920.7	1989.9
	7	30	27.5	27.5mph <= speed < 32.5mph	251.4	213.1	275.9	294.8	1857.7	1785.1	1307.3	1945.0	1191.6	1135.1	1227.7	1887.5	1957.2
	8	35	32.5	32.5mph <= speed < 37.5mph	263.3	208.4	272.2	288.4	1583.7	1521.9	1139.8	1657.1	1055.1	1018.6	1110.4	1604.1	1660.9
	9	40	37.5	37.5mph <= speed < 42.5mph	271.5	204.8	269.1	284.3	1542.6	1479.0	1087.9	1624.1	1008.9	967.3	1077.7	1570.7	1623.2
	10	45	42.5	42.5mph <= speed < 47.5mph	277.7	201.4	266.1	280.2	1511.1	1443.7	1042.4	1597.1	968.0	920.7	1047.3	1545.1	1595.0
	11	50	47.5	47.5mph <= speed < 52.5mph	282.1	195.9	260.4	273.5	1482.4	1415.9	992.2	1526.1	922.4	866.1	1005.3	1485.2	1524.5
	12	55	52.5	52.5mph <= speed < 57.5mph	285.8	190.7	254.8	267.1	1457.3	1392.4	949.0	1456.9	882.5	818.3	967.9	1423.4	1451.3
	13	60	57.5	57.5mph <= speed < 62.5mph	290.1	187.1	251.5	263.5	1476.7	1376.7	896.9	1488.4	822.8	766.2	915.6	1451.1	1481.3
	14	65	62.5	62.5mph <= speed < 67.5mph	299.7	188.6	256.0	268.4	1544.4	1455.7	976.8	1559.3	826.9	763.6	957.3	1537.2	1559.4
	15	70	67.5	67.5mph <= speed < 72.5mph	305.9	194.2	266.0	279.1	1606.9	1529.7	1054.6	1617.6	833.8	764.0	998.9	1610.8	1626.4
	16	75	72.5	72.5mph <= speed	303.4	202.9	279.2	293.3	1691.9	1618.4	1142.6	1708.5	861.1	785.4	1060.2	1713.9	1719.5

Urban Unrestricted	avgSp	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	0	speed < 2.5mph	972.6	1166.9	1456.1	1568.1	7117.0	7232.5	6647.6	5478.8	6589.0	7061.1	6421.8	7592.7	7699.0
	2	5	2.5	2.5mph <= speed < 7.5mph	577.9	655.5	823.9	886.8	4029.3	3766.2	2969.1	3589.4	3253.5	3406.4	3199.8	4238.5	4306.9
	3	10	7.5	7.5mph <= speed < 12.5mph	380.5	399.9	507.8	546.2	2678.8	2099.5	1709.0	2644.7	1948.7	1939.6	1866.2	2671.5	2745.5
	4	15	12.5	12.5mph <= speed < 17.5mph	314.7	314.6	402.4	432.7	2333.5	1056.6	833.0	2421.1	1558.2	1514.3	1516.2	2383.2	2467.4
	5	20	17.5	17.5mph <= speed < 22.5mph	281.5	270.3	348.3	374.2	2092.1	1091.5	839.0	2125.9	1330.1	1279.3	1314.1	2091.2	2160.8
	6	25	22.5	22.5mph <= speed < 27.5mph	261.0	240.4	312.7	335.7	1915.0	1112.4	842.6	1977.7	1156.6	1138.7	1157.2	1945.6	2020.4
	7	30	27.5	27.5mph <= speed < 32.5mph	246.1	215.0	279.1	299.4	1868.3	1126.4	845.0	1934.4	1105.7	1049.2	1104.4	1905.1	1980.2
	8	35	32.5	32.5mph <= speed < 37.5mph	251.6	202.7	265.3	283.8	1560.2	1075.0	784.5	1605.7	941.7	905.1	959.0	1588.8	1649.9
	9	40	37.5	37.5mph <= speed < 42.5mph	259.4	194.9	257.3	274.6	1502.5	1036.4	739.2	1553.1	875.0	829.8	908.8	1541.1	1597.9
	10	45	42.5	42.5mph <= speed < 47.5mph	266.3	189.2	251.3	267.7	1457.6	1006.4	704.0	1512.2	822.0	769.5	868.4	1504.1	1557.5
	11	50	47.5	47.5mph <= speed < 52.5mph	273.3	185.2	246.7	262.4	1420.6	1163.8	766.0	1431.8	770.3	706.5	824.9	1432.3	1474.3
	12	55	52.5	52.5mph <= speed < 57.5mph	282.4	182.8	245.2	260.3	1390.4	1292.6	816.7	1354.3	728.0	655.0	789.4	1362.2	1392.0
	13	60	57.5	57.5mph <= speed < 62.5mph	293.8	182.0	246.4	261.2	1411.1	1288.2	767.6	1391.2	668.0	602.0	742.1	1392.1	1424.4
	14	65	62.5	62.5mph <= speed < 67.5mph	303.1	183.2	250.2	265.0	1486.5	1375.9	856.0	1473.5	679.5	605.6	797.3	1487.0	1510.8
	15	70	67.5	67.5mph <= speed < 72.5mph	309.8	188.9	260.7	276.0	1555.4	1459.1	942.9	1544.2	694.6	612.7	852.5	1568.4	1584.8
	16	75	72.5	72.5mph <= speed	310.1	199.2	276.4	291.9	1649.2	1558.1	1041.7	1647.4	729.5	641.4	926.9	1682.0	1687.5

CO2e 98
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Urban Restricted	avgSp	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	0	speed < 2.5mph	996.2	1042.2	1335.8	1397.0	7311.5	7235.1	7073.1	7647.1	6567.3	7068.0	6362.8	7522.1	7611.2
	2	5	2.5	2.5mph <= speed < 7.5mph	571.9	573.3	743.7	782.9	4028.8	3987.1	3552.1	4282.9	3280.4	3457.4	3176.9	4246.9	4305.6
	3	10	7.5	7.5mph <= speed < 12.5mph	363.7	339.7	447.9	471.3	2650.0	2602.8	2116.4	2662.4	1938.3	1949.8	1837.5	2636.9	2700.1
	4	15	12.5	12.5mph <= speed < 17.5mph	308.2	267.9	353.8	371.3	2248.9	2166.3	1685.0	2365.4	1560.7	1529.7	1508.3	2325.6	2398.0
	5	20	17.5	17.5mph <= speed < 22.5mph	273.1	224.7	296.1	309.0	2019.8	1915.8	1460.9	2089.5	1358.2	1311.2	1337.8	2046.9	2105.5
	6	25	22.5	22.5mph <= speed < 27.5mph	257.0	200.3	265.9	278.0	1860.8	1761.6	1298.4	1958.3	1209.4	1187.9	1213.4	1913.6	1977.8
	7	30	27.5	27.5mph <= speed < 32.5mph	251.4	186.2	248.8	260.0	1822.6	1722.7	1249.1	1935.2	1179.8	1123.5	1181.5	1880.5	1944.9
	8	35	32.5	32.5mph <= speed < 37.5mph	263.3	182.1	245.4	254.3	1554.7	1468.9	1090.8	1648.7	1044.7	1007.9	1067.2	1597.7	1649.4
	9	40	37.5	37.5mph <= speed < 42.5mph	271.5	179.0	242.6	250.7	1513.9	1427.2	1040.0	1615.8	999.0	956.7	1032.2	1564.2	1611.1
	10	45	42.5	42.5mph <= speed < 47.5mph	277.7	176.0	239.9	247.0	1482.7	1392.9	995.7	1588.9	958.5	910.2	999.8	1538.6	1582.4
	11	50	47.5	47.5mph <= speed < 52.5mph	282.1	171.2	234.7	241.2	1454.2	1366.5	947.5	1518.1	913.5	855.7	957.0	1478.8	1511.2
	12	55	52.5	52.5mph <= speed < 57.5mph	285.8	166.7	229.7	235.6	1429.3	1344.1	905.9	1449.1	874.0	808.1	919.3	1417.2	1437.9
	13	60	57.5	57.5mph <= speed < 62.5mph	290.1	163.6	226.7	232.4	1449.1	1329.2	855.9	1480.8	815.0	756.5	868.5	1445.2	1470.2
	14	65	62.5	62.5mph <= speed < 67.5mph	299.7	164.9	230.8	236.6	1515.6	1404.1	930.9	1551.3	818.8	754.1	913.4	1530.4	1546.5
	15	70	67.5	67.5mph <= speed < 72.5mph	305.9	169.7	239.8	246.1	1576.9	1474.4	1003.9	1609.2	825.5	754.8	957.9	1603.4	1611.8
	16	75	72.5	72.5mph <= speed	303.4	177.4	251.7	258.5	1660.3	1558.9	1090.5	1699.7	852.4	776.3	1023.3	1705.8	1703.3

Urban Unrestricted	avgSp	avgBinS	minSpeec	avgSpeedBinDesc	11	21	31	32	41	42	43	51	52	53	54	61	62
	1	2.5	0	speed < 2.5mph	972.6	1021.5	1312.8	1383.0	6983.5	6958.0	6384.4	5452.3	6520.1	7007.4	6315.0	7566.4	7659.4
	2	5	2.5	2.5mph <= speed < 7.5mph	577.9	573.6	742.8	782.2	3958.4	3638.4	2843.4	3572.0	3219.9	3379.1	3115.4	4224.4	4285.8
	3	10	7.5	7.5mph <= speed < 12.5mph	380.5	349.6	457.8	481.7	2631.4	2025.5	1639.9	2631.8	1928.5	1924.1	1820.3	2662.5	2730.1
	4	15	12.5	12.5mph <= speed < 17.5mph	314.7	274.9	362.8	381.6	2292.0	1021.2	798.5	2408.9	1542.0	1501.6	1475.7	2374.8	2453.0
	5	20	17.5	17.5mph <= speed < 22.5mph	281.5	236.2	314.0	330.1	2054.2	1055.0	804.3	2115.0	1316.4	1268.0	1277.5	2083.6	2146.9
	6	25	22.5	22.5mph <= speed < 27.5mph	261.0	210.0	281.9	296.1	1880.3	1075.3	807.8	1967.7	1144.7	1128.6	1122.8	1938.3	2007.9
	7	30	27.5	27.5mph <= speed < 32.5mph	246.1	187.8	251.7	264.0	1832.8	1088.8	810.1	1924.5	1094.6	1039.2	1067.9	1897.9	1967.5
	8	35	32.5	32.5mph <= speed < 37.5mph	251.6	177.1	239.2	250.3	1531.5	1037.8	752.6	1597.6	932.3	896.0	925.7	1582.4	1638.1
	9	40	37.5	37.5mph <= speed < 42.5mph	259.4	170.4	232.0	242.2	1474.4	999.5	709.4	1545.1	866.3	821.0	872.6	1534.7	1585.5
	10	45	42.5	42.5mph <= speed < 47.5mph	266.3	165.4	226.5	236.0	1429.8	969.8	675.9	1504.3	813.8	760.9	830.0	1497.6	1544.7
	11	50	47.5	47.5mph <= speed < 52.5mph	273.3	161.9	222.5	231.4	1393.3	1122.3	732.8	1424.2	762.8	698.0	784.9	1426.0	1460.8
	12	55	52.5	52.5mph <= speed < 57.5mph	282.4	159.9	221.0	229.5	1363.3	1247.2	779.4	1347.0	721.0	646.5	748.0	1356.0	1378.3
	13	60	57.5	57.5mph <= speed < 62.5mph	293.8	159.1	222.1	230.3	1384.5	1243.3	731.9	1384.0	661.6	593.9	701.3	1386.2	1413.3
	14	65	62.5	62.5mph <= speed < 67.5mph	303.1	160.2	225.6	233.7	1458.5	1326.6	814.9	1465.9	672.9	597.7	759.3	1480.3	1497.6
	15	70	67.5	67.5mph <= speed < 72.5mph	309.8	165.2	235.0	243.4	1526.2	1405.6	896.4	1536.0	687.6	605.0	816.9	1560.9	1569.9
	16	75	72.5	72.5mph <= speed	310.1	174.2	249.1	257.3	1618.1	1500.1	993.5	1638.9	722.0	633.6	895.1	1673.8	1670.7

**Construction
On-Site Sources Analysis**

Viaduct Alternative
PM25 24-Hour Analysis

Construction Equipment and Emissions

Work task	Equipment	Engine type	Size (hp)	Qty	Daily use	Average Use	PM25 Factor (g/hp-hr)	Short-Term PM25 Factor (g/s)
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	2%	0.067	4.78E-03
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	2%	0.067	4.78E-03
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	2%	0.055	6.20E-04
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	2%	0.055	6.20E-04
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	22%	0.144	8.16E-03
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	22%	0.144	8.16E-03
Demolition	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	3%	0.172	1.20E-04
Demolition	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	7%	0.074	2.63E-04
Demolition	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	13%	0.032	2.26E-03
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	40%	0.026	2.90E-03
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	40%	0.026	2.90E-03
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	55%	0.080	4.42E-03
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	55%	0.080	4.42E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.074	2.63E-04
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.032	2.21E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.032	2.21E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.032	2.21E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.032	2.21E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.032	2.26E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.032	2.26E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.032	2.26E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.032	2.26E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	17%	0.032	1.88E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	17%	0.032	1.88E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	14%	0.032	2.26E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	14%	0.032	2.26E-03
Superstructure	S.P. Crane, 4x4, 12 Ton	Diesel	200	1	35%	12%	0.032	6.20E-04
Earthworks	Hyd. Excavator, 1 C.Y.	Diesel	150	5	85%	11%	0.067	1.19E-02
Earthworks	Hyd. Excavator, 3.5 C.Y.	Diesel	200	4	85%	5%	0.032	6.11E-03
Earthworks	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	33%	0.055	6.20E-04
Earthworks	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	29%	0.172	1.20E-04
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	90%	7%	0.061	3.64E-03
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	90%	7%	0.061	3.64E-03
Earthworks	Dozer, 300 H.P.	Diesel	300	1	85%	49%	0.045	3.16E-03
Earthworks	Loader, Skid Steer, 30 H.P.	Diesel	30	1	85%	22%	0.093	6.61E-04

On-Site Construction Trucks and Emissions

Work task	Description	Number of Truck Trips per Day	Idling Emission Factor (g/hr)	Idling Time (min)	Cruise Emission Factor (g/VMT)	Cruise + Idling Emission Factor (g/day)	Short-Term PM25 Emissions (g/s)
Demolition	Dump Truck, 12 C.Y., 400 H.P.	26	2.404	3.0	0.537	4.522	1.04E-04
Superstructure	Dump Truck, 12 C.Y., 400 H.P.	33	2.404	3	0.537	5.740	1.04E-04
Superstructure	Concrete Truck	5	2.404	45	0.537	9.285	1.56E-03
Superstructure	Pickup Truck, 3/4 Ton	3	2.404	3	0.537	0.522	1.04E-04
Earthworks	Dump Truck, 12 C.Y., 400 H.P.	24	2.404	3	0.537	4.175	1.04E-04
Earthworks	Concrete Truck	9	2.404	45	0.537	16.714	1.56E-03
Earthworks	Light Truck, 1.5 Ton	5	2.404	3	0.537	0.870	1.04E-04

Viaduct Alternative
PM10 24-Hour Analysis

Construction Equipment and Emissions

Work task	Equipment	Engine type	Size (hp)	Qty	Daily use	Average Use	PM10 Factor (g/hp-hr)	Short-Term PM10 Factor (g/s)
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	2%	0.070	4.93E-03
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	2%	0.070	4.93E-03
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	2%	0.056	6.39E-04
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	2%	0.056	6.39E-04
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	22%	0.148	8.41E-03
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	22%	0.148	8.41E-03
Demolition	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	3%	0.178	1.23E-04
Demolition	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	7%	0.077	2.71E-04
Demolition	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	13%	0.033	2.33E-03
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	40%	0.027	2.99E-03
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	40%	0.027	2.99E-03
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	55%	0.083	4.55E-03
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	55%	0.083	4.55E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	0.077	2.71E-04
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.033	2.28E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.033	2.28E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.033	2.28E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.033	2.28E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.033	2.33E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.033	2.33E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.033	2.33E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.033	2.33E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	17%	0.033	1.94E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	17%	0.033	1.94E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	14%	0.033	2.33E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	14%	0.033	2.33E-03
Superstructure	S.P. Crane, 4x4, 12 Ton	Diesel	200	1	35%	12%	0.033	6.39E-04
Earthworks	Hyd. Excavator, 1 C.Y.	Diesel	150	5	85%	11%	0.070	1.23E-02
Earthworks	Hyd. Excavator, 3.5 C.Y.	Diesel	200	4	85%	5%	0.033	6.30E-03
Earthworks	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	33%	0.056	6.39E-04
Earthworks	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	29%	0.178	1.23E-04
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	90%	7%	0.063	3.75E-03
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	90%	7%	0.063	3.75E-03
Earthworks	Dozer, 300 H.P.	Diesel	300	1	85%	49%	0.046	3.26E-03
Earthworks	Loader, Skid Steer, 30 H.P.	Diesel	30	1	85%	22%	0.096	6.81E-04

On-Site Construction Trucks and Emissions

Work task	Description	Number of Truck Trips per Day	Idling Emission Factor (g/hr)	Idling Time (min)	Cruise Emission Factor (g/VMT)	Cruise + Idling Emission Factor (g/day)	Short-Term PM10 Emissions (g/s)
Demolition	Dump Truck, 12 C.Y., 400 H.P.	26	2.614	3.0	0.665	5.127	1.04E-04
Superstructure	Dump Truck, 12 C.Y., 400 H.P.	33	2.614	3	0.665	6.508	1.04E-04
Superstructure	Concrete Truck	5	2.614	45	0.665	10.133	1.56E-03
Superstructure	Pickup Truck, 3/4 Ton	3	2.614	3	0.665	0.592	1.04E-04
Earthworks	Dump Truck, 12 C.Y., 400 H.P.	24	2.614	3	0.665	4.733	1.04E-04
Earthworks	Concrete Truck	9	2.614	45	0.665	18.240	1.56E-03
Earthworks	Light Truck, 1.5 Ton	5	2.614	3	0.665	0.986	1.04E-04

Viaduct Alternative
CO 8-Hour Analysis

Construction Equipment and Emissions

Work task	Equipment	Engine type	Size (hp)	Qty	Daily use	Average Use	CO Factor (g/hp-hr)	Short-Term CO Factor (g/s)
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	2%	0.301	2.13E-02
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	2%	0.301	2.13E-02
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	2%	0.339	3.85E-03
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	2%	0.339	3.85E-03
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	22%	1.028	5.82E-02
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	22%	1.028	5.82E-02
Demolition	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	3%	113.906	7.91E-02
Demolition	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	7%	189.629	6.72E-01
Demolition	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	13%	0.160	1.13E-02
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	40%	0.761	8.46E-02
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	40%	0.761	8.46E-02
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	55%	0.398	2.19E-02
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	55%	0.398	2.19E-02
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	6.72E-01
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.160	1.11E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.160	1.13E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.160	1.13E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.160	1.13E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.160	1.13E-02
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	17%	0.160	9.42E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	17%	0.160	9.42E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	14%	0.160	1.13E-02
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	14%	0.160	1.13E-02
Superstructure	S.P. Crane, 4x4, 12 Ton	Diesel	200	1	35%	12%	0.160	3.10E-03
Earthworks	Hyd. Excavator, 1 C.Y.	Diesel	150	5	85%	11%	0.301	5.33E-02
Earthworks	Hyd. Excavator, 3.5 C.Y.	Diesel	200	4	85%	5%	0.192	3.63E-02
Earthworks	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	33%	0.339	3.85E-03
Earthworks	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	29%	113.906	7.91E-02
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	90%	7%	0.320	1.92E-02
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	90%	7%	0.320	1.92E-02
Earthworks	Dozer, 300 H.P.	Diesel	300	1	85%	49%	0.248	1.76E-02
Earthworks	Loader, Skid Steer, 30 H.P.	Diesel	30	1	85%	22%	0.568	4.02E-03

On-Site Construction Trucks and Emissions

Work task	Description	Number of Truck Trips per Day	Idling Emission Factor (g/hr)	Idling Time (min)	Cruise Emission Factor (g/VMT)	Cruise + Idling Emission Factor (g/day)	Short-Term CO Emissions (g/s)
Demolition	Dump Truck, 12 C.Y., 400 H.P.	26	15.898	3.0	3.634	30.114	1.04E-04
Superstructure	Dump Truck, 12 C.Y., 400 H.P.	33	15.898	3	3.634	38.222	1.04E-04
Superstructure	Concrete Truck	5	15.898	45	3.634	61.433	1.56E-03
Superstructure	Pickup Truck, 3/4 Ton	3	15.898	3	3.634	3.475	1.04E-04
Earthworks	Dump Truck, 12 C.Y., 400 H.P.	24	15.898	3	3.634	27.798	1.04E-04
Earthworks	Concrete Truck	9	15.898	45	3.634	110.580	1.56E-03
Earthworks	Light Truck, 1.5 Ton	5	15.898	3	3.634	5.791	1.04E-04

Viaduct Alternative
CO 1-Hour Analysis

Construction Equipment and Emissions

Work task	Equipment	Engine type	Size (hp)	Qty	Daily use	Average Use	CO Factor (g/hp-hr)	Short-Term CO Factor (g/s)
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	2%	0.301	2.51E-02
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	2%	0.301	2.51E-02
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	2%	0.339	4.53E-03
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	2%	0.339	4.53E-03
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	22%	1.028	6.85E-02
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	22%	1.028	6.85E-02
Demolition	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	3%	113.906	1.58E-01
Demolition	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	7%	189.629	7.90E-01
Demolition	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	13%	0.160	1.33E-02
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	40%	0.761	8.46E-02
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	40%	0.761	8.46E-02
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	55%	0.398	2.43E-02
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	55%	0.398	2.43E-02
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	81%	189.629	7.90E-01
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	25%	0.160	1.11E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.160	1.33E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.160	1.33E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.160	1.33E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	23%	0.160	1.33E-02
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	17%	0.160	1.11E-02
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	17%	0.160	1.11E-02
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	14%	0.160	1.33E-02
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	14%	0.160	1.33E-02
Superstructure	S.P. Crane, 4x4, 12 Ton	Diesel	200	1	35%	12%	0.160	8.86E-03
Earthworks	Hyd. Excavator, 1 C.Y.	Diesel	150	5	85%	11%	0.301	6.27E-02
Earthworks	Hyd. Excavator, 3.5 C.Y.	Diesel	200	4	85%	5%	0.192	4.27E-02
Earthworks	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	33%	0.339	4.53E-03
Earthworks	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	29%	113.906	1.58E-01
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	90%	7%	0.320	2.13E-02
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	90%	7%	0.320	2.13E-02
Earthworks	Dozer, 300 H.P.	Diesel	300	1	85%	49%	0.248	2.07E-02
Earthworks	Loader, Skid Steer, 30 H.P.	Diesel	30	1	85%	22%	0.568	4.73E-03

On-Site Construction Trucks and Emissions

Work task	Description	Number of Truck Trips per Day	Idling Emission Factor (g/hr)	Idling Time (min)	Cruise Emission Factor (g/VMT)	Cruise + Idling Emission Factor (g/day)		Short-Term CO Emissions (g/s)
Demolition	Dump Truck, 12 C.Y., 400 H.P.	26	15.898	3.0	3.634	30.114		1.04E-04
Superstructure	Dump Truck, 12 C.Y., 400 H.P.	33	15.898	3	3.634	38.222		1.04E-04
Superstructure	Concrete Truck	5	15.898	45	3.634	61.433		1.56E-03
Superstructure	Pickup Truck, 3/4 Ton	3	15.898	3	3.634	3.475		1.04E-04
Earthworks	Dump Truck, 12 C.Y., 400 H.P.	24	15.898	3	3.634	27.798		1.04E-04
Earthworks	Concrete Truck	9	15.898	45	3.634	110.580		1.56E-03
Earthworks	Light Truck, 1.5 Ton	5	15.898	3	3.634	5.791		1.04E-04

Viaduct Alternative PM_{2.5} Annual Analysis

Construction Equipment and Emissions

Work task	Start Date	End Date	Equipment	Equipment Type	Engine type	Size (hp)	Qty	Daily use	Average Use	PM25 Factor (g/hp-hr)	Annual PM25 Factor (g/s)
Demolition	1	72	Hyd. Excavator, 1 C.Y.	Excavators 1	Diesel	150	2	85%	2%	0.067	1.12E-04
Demolition	1	72	Hyd. Excavator, 1 C.Y.	Excavators 1	Diesel	150	2	85%	2%	0.067	1.12E-04
Demolition	1	72	Backhoe Loader, 48 H.P.	Tractors/Loaders/Backhoes 1	Diesel	48	1	85%	2%	0.055	1.46E-05
Demolition	1	72	Backhoe Loader, 48 H.P.	Tractors/Loaders/Backhoes 1	Diesel	48	1	85%	2%	0.055	1.46E-05
Demolition	1	72	Backhoe Loader, 80 H.P.	Tractors/Loaders/Backhoes 2	Diesel	80	3	85%	22%	0.144	2.11E-03
Demolition	1	72	Backhoe Loader, 80 H.P.	Tractors/Loaders/Backhoes 2	Diesel	80	3	85%	22%	0.144	2.11E-03
Demolition	1	72	Vibrating Plate, Gas, 21"	Plate Compactors	Gasoline	5	1	50%	3%	0.172	7.18E-06
Demolition	1	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	7%	0.074	2.17E-05
Demolition	1	72	Lattice Boom Crane, 150 Ton	100 ton Crawler Crane	Diesel	300	1	85%	13%	0.032	3.46E-04
											4.85E-03
Superstructure	13	72	Concrete Pump (Small)	Light Commercial Pumps	Diesel	400	1	100%	40%	0.026	1.16E-03
Superstructure	13	72	Concrete Pump (Small)	Light Commercial Pumps	Diesel	400	1	100%	40%	0.026	1.16E-03
Superstructure	13	72	Hammer, Diesel, 41k ft-lb	Bore/Drill Rigs	Diesel	220	1	90%	55%	0.080	2.70E-03
Superstructure	13	72	Hammer, Diesel, 41k ft-lb	Bore/Drill Rigs	Diesel	220	1	90%	55%	0.080	2.70E-03
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	0.074	2.52E-04
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	0.074	2.52E-04
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	0.074	2.52E-04
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	0.074	2.52E-04
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	0.074	2.52E-04
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	0.074	2.52E-04
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	0.074	2.52E-04
Superstructure	13	72	Crawler Crane, 75 Ton	100 ton Crawler Crane	Diesel	250	1	100%	25%	0.032	5.44E-04
Superstructure	13	72	Crawler Crane, 75 Ton	100 ton Crawler Crane	Diesel	250	1	100%	25%	0.032	5.44E-04
Superstructure	13	72	Crawler Crane, 75 Ton	100 ton Crawler Crane	Diesel	250	1	100%	25%	0.032	5.44E-04
Superstructure	13	72	Crawler Crane, 75 Ton	100 ton Crawler Crane	Diesel	250	1	100%	25%	0.032	5.44E-04
Superstructure	13	72	Lattice Boom Crane, 150 Ton	100 ton Crawler Crane	Diesel	300	1	85%	23%	0.032	6.20E-04
Superstructure	13	72	Lattice Boom Crane, 150 Ton	100 ton Crawler Crane	Diesel	300	1	85%	23%	0.032	6.20E-04
Superstructure	13	72	Lattice Boom Crane, 150 Ton	100 ton Crawler Crane	Diesel	300	1	85%	23%	0.032	6.20E-04
Superstructure	13	72	Lattice Boom Crane, 150 Ton	100 ton Crawler Crane	Diesel	300	1	85%	23%	0.032	6.20E-04
Superstructure	13	72	Hyd. Crane, 25 Ton	100 ton Crawler Crane	Diesel	250	1	85%	17%	0.032	3.78E-04
Superstructure	13	72	Hyd. Crane, 25 Ton	100 ton Crawler Crane	Diesel	250	1	85%	17%	0.032	3.78E-04
Superstructure	13	72	Hyd. Crane, 55 Ton	100 ton Crawler Crane	Diesel	300	1	85%	14%	0.032	3.82E-04
Superstructure	13	72	Hyd. Crane, 55 Ton	100 ton Crawler Crane	Diesel	300	1	85%	14%	0.032	3.82E-04
Superstructure	13	72	S.P. Crane, 4x4, 12 Ton	100 ton Crawler Crane	Diesel	200	1	35%	12%	0.032	2.11E-04
											1.59E-02
Earthworks	13	72	Hyd. Excavator, 1 C.Y.	Excavators 1	Diesel	150	5	85%	11%	0.067	1.55E-03
Earthworks	1	72	Hyd. Excavator, 3.5 C.Y.	Excavators 2	Diesel	200	4	85%	5%	0.032	3.59E-04
Earthworks	13	72	Backhoe Loader, 48 H.P.	Tractors/Loaders/Backhoes 1	Diesel	48	1	85%	33%	0.055	2.41E-04
Earthworks	13	72	Vibrating Plate, Gas, 21"	Plate Compactors	Gasoline	5	1	50%	29%	0.172	6.94E-05
Earthworks	1	72	Sheepsfoot Roller, 240 H.P.	Rollers	Diesel	240	1	90%	7%	0.061	2.83E-04
Earthworks	1	72	Sheepsfoot Roller, 240 H.P.	Rollers	Diesel	240	1	90%	7%	0.061	2.83E-04
Earthworks	1	72	Dozer, 300 H.P.	Crawler Tractors	Diesel	300	1	85%	49%	0.045	1.82E-03
Earthworks	13	72	Loader, Skid Steer, 30 H.P.	Skid Steer Loaders	Diesel	30	1	85%	22%	0.093	1.71E-04
											4.77E-03

On-Site Construction Trucks and Emissions

[illegible]

Viaduct Alternative NOx Annual Analysis

Construction Equipment and Emissions

Work task	Start Date	End Date	Equipment	Equipment Type	Engine type	Size (hp)	Qty	Daily use	Average Use	NO2 Factor (g/hp-hr)	Annual NO2 Factor (g/s)
Demolition	1	72	Hyd. Excavator, 1 C.Y.	Excavators 1	Diesel	150	2	85%	2%	0.714	1.19E-03
Demolition	1	72	Hyd. Excavator, 1 C.Y.	Excavators 1	Diesel	150	2	85%	2%	0.714	1.19E-03
Demolition	1	72	Backhoe Loader, 48 H.P.	Tractors/Loaders/Backhoes 1	Diesel	48	1	85%	2%	0.853	2.28E-04
Demolition	1	72	Backhoe Loader, 48 H.P.	Tractors/Loaders/Backhoes 1	Diesel	48	1	85%	2%	0.853	2.28E-04
Demolition	1	72	Backhoe Loader, 80 H.P.	Tractors/Loaders/Backhoes 2	Diesel	80	3	85%	22%	0.846	1.24E-02
Demolition	1	72	Backhoe Loader, 80 H.P.	Tractors/Loaders/Backhoes 2	Diesel	80	3	85%	22%	0.846	1.24E-02
Demolition	1	72	Vibrating Plate, Gas, 21"	Plate Compactors	Gasoline	5	1	50%	3%	1.345	5.60E-05
Demolition	1	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	7%	1.522	4.44E-04
Demolition	1	72	Lattice Boom Crane, 150 Ton	100 ton Crawler Crane	Diesel	300	1	85%	13%	0.719	7.78E-03
											3.59E-02
Superstructure	13	72	Concrete Pump (Small)	Light Commercial Pumps	Diesel	400	1	100%	40%	1.790	7.96E-02
Superstructure	13	72	Concrete Pump (Small)	Light Commercial Pumps	Diesel	400	1	100%	40%	1.790	7.96E-02
Superstructure	13	72	Hammer, Diesel, 41k ft-lb	Bore/Drill Rigs	Diesel	220	1	90%	55%	1.576	5.30E-02
Superstructure	13	72	Hammer, Diesel, 41k ft-lb	Bore/Drill Rigs	Diesel	220	1	90%	55%	1.576	5.30E-02
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	1.522	5.16E-03
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	1.522	5.16E-03
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	1.522	5.16E-03
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	1.522	5.16E-03
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	1.522	5.16E-03
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	1.522	5.16E-03
Superstructure	13	72	Welder, Gas Engine, 300 amp	Light Commercial Generator Sets	Gasoline	15	1	85%	81%	1.522	5.16E-03
Superstructure	13	72	Crawler Crane, 75 Ton	100 ton Crawler Crane	Diesel	250	1	100%	25%	0.719	1.23E-02
Superstructure	13	72	Crawler Crane, 75 Ton	100 ton Crawler Crane	Diesel	250	1	100%	25%	0.719	1.23E-02
Superstructure	13	72	Crawler Crane, 75 Ton	100 ton Crawler Crane	Diesel	250	1	100%	25%	0.719	1.23E-02
Superstructure	13	72	Crawler Crane, 75 Ton	100 ton Crawler Crane	Diesel	250	1	100%	25%	0.719	1.23E-02
Superstructure	13	72	Lattice Boom Crane, 150 Ton	100 ton Crawler Crane	Diesel	300	1	85%	23%	0.719	1.40E-02
Superstructure	13	72	Lattice Boom Crane, 150 Ton	100 ton Crawler Crane	Diesel	300	1	85%	23%	0.719	1.40E-02
Superstructure	13	72	Lattice Boom Crane, 150 Ton	100 ton Crawler Crane	Diesel	300	1	85%	23%	0.719	1.40E-02
Superstructure	13	72	Lattice Boom Crane, 150 Ton	100 ton Crawler Crane	Diesel	300	1	85%	23%	0.719	1.40E-02
Superstructure	13	72	Hyd. Crane, 25 Ton	100 ton Crawler Crane	Diesel	250	1	85%	17%	0.719	8.52E-03
Superstructure	13	72	Hyd. Crane, 25 Ton	100 ton Crawler Crane	Diesel	250	1	85%	17%	0.719	8.52E-03
Superstructure	13	72	Hyd. Crane, 55 Ton	100 ton Crawler Crane	Diesel	300	1	85%	14%	0.719	8.60E-03
Superstructure	13	72	Hyd. Crane, 55 Ton	100 ton Crawler Crane	Diesel	300	1	85%	14%	0.719	8.60E-03
Superstructure	13	72	S.P. Crane, 4x4, 12 Ton	100 ton Crawler Crane	Diesel	200	1	35%	12%	0.719	4.76E-03
											4.45E-01
Earthworks	13	72	Hyd. Excavator, 1 C.Y.	Excavators 1	Diesel	150	5	85%	11%	0.714	1.64E-02
Earthworks	1	72	Hyd. Excavator, 3.5 C.Y.	Excavators 2	Diesel	200	4	85%	5%	0.636	7.06E-03
Earthworks	13	72	Backhoe Loader, 48 H.P.	Tractors/Loaders/Backhoes 1	Diesel	48	1	85%	33%	0.853	3.75E-03
Earthworks	13	72	Vibrating Plate, Gas, 21"	Plate Compactors	Gasoline	5	1	50%	29%	1.345	5.42E-04
Earthworks	1	72	Sheepsfoot Roller, 240 H.P.	Rollers	Diesel	240	1	90%	7%	0.953	4.45E-03
Earthworks	1	72	Sheepsfoot Roller, 240 H.P.	Rollers	Diesel	240	1	90%	7%	0.953	4.45E-03
Earthworks	1	72	Dozer, 300 H.P.	Crawler Tractors	Diesel	300	1	85%	49%	0.760	3.10E-02
Earthworks	13	72	Loader, Skid Steer, 30 H.P.	Skid Steer Loaders	Diesel	30	1	85%	22%	0.942	1.73E-03
											6.94E-02

On-Site Construction Trucks and Emissions

[illegible]

Community Grid Alternative
PM2.5 24-Hour Analysis

Construction Equipment and Emissions								
Work task	Equipment	Engine type	Size (hp)	Qty	Daily use	Average Use	PM25 Factor (g/hp-hr)	Short-Term PM25 Factor (g/s)
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.067	4.78E-03
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.067	4.78E-03
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.055	6.20E-04
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.055	6.20E-04
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	0.144	8.16E-03
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	0.144	8.16E-03
Demolition	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	3%	0.172	1.20E-04
Demolition	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	2%	0.074	2.63E-04
Demolition	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	4%	0.032	2.26E-03
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	0.026	2.90E-03
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	0.026	2.90E-03
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	0.080	4.42E-03
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	0.080	4.42E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	2.63E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	2.63E-04
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.032	2.21E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.032	2.21E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.032	2.21E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.032	2.26E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.032	2.26E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.032	2.26E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.032	2.26E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.032	1.88E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.032	1.88E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	7%	0.032	2.26E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	7%	0.032	2.26E-03
Superstructure	S.P. Crane, 4x4, 12 Ton	Diesel	200	1	35%	30%	0.032	6.20E-04
Earthworks	Hyd. Excavator, 1 C.Y.	Diesel	150	5	85%	4%	0.067	1.19E-02
Earthworks	Hyd. Excavator, 3.5 C.Y.	Diesel	200	4	85%	8%	0.032	6.11E-03
Earthworks	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	33%	0.055	6.20E-04
Earthworks	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	12%	0.172	1.20E-04
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.061	0.00E+00
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.061	0.00E+00
Earthworks	Dozer, 300 H.P.	Diesel	300	1	85%	29%	0.045	3.16E-03
Earthworks	Loader, Skid Steer, 30 H.P.	Diesel	30	1	85%	42%	0.093	6.61E-04

On-Site Construction Trucks and Emissions								
Work task	Description	Number of Truck Trips per Day	Idling Emission Factor (g/hr)	Idling Time (min)	Cruise Emission Factor (g/VMT)	Cruise + Idling Emission Factor (g/day)		Short-Term PM25 Emissions (g/s)
Demolition	Dump Truck, 12 C.Y., 400 H.P.	23	2.404	3.0	0.537	4.001		1.04E-04
Superstructure	Dump Truck, 12 C.Y., 400 H.P.	23	2.404	3	0.537	4.001		1.04E-04
Superstructure	Concrete Truck	3	2.404	45	0.537	5.571		1.56E-03
Superstructure	Pickup Truck, 3/4 Ton	2	2.404	3	0.537	0.348		1.04E-04
Earthworks	Dump Truck, 12 C.Y., 400 H.P.	23	2.404	3	0.537	4.001		1.04E-04
Earthworks	Concrete Truck	3	2.404	45	0.537	5.571		1.56E-03
Earthworks	Light Truck, 1.5 Ton	2	2.404	3	0.537	0.348		1.04E-04

Community Grid Alternative
PM10 24-Hour Analysis

Construction Equipment and Emissions								
Work task	Equipment	Engine type	Size (hp)	Qty	Daily use	Average Use	PM10 Factor (g/hp-hr)	Short-Term PM10 Factor (g/s)
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.070	4.93E-03
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.070	4.93E-03
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.056	6.39E-04
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.056	6.39E-04
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	0.148	8.41E-03
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	0.148	8.41E-03
Demolition	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	3%	0.178	1.23E-04
Demolition	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	2%	0.077	2.71E-04
Demolition	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	4%	0.033	2.33E-03
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	0.027	2.99E-03
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	0.027	2.99E-03
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	0.083	4.55E-03
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	0.083	4.55E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.077	2.71E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.077	2.71E-04
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.033	2.28E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.033	2.28E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.033	2.28E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.033	2.33E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.033	2.33E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.033	2.33E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.033	2.33E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.033	1.94E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.033	1.94E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	7%	0.033	2.33E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	7%	0.033	2.33E-03
Superstructure	S.P. Crane, 4x4, 12 Ton	Diesel	200	1	35%	30%	0.033	6.39E-04
Earthworks	Hyd. Excavator, 1 C.Y.	Diesel	150	5	85%	4%	0.070	1.23E-02
Earthworks	Hyd. Excavator, 3.5 C.Y.	Diesel	200	4	85%	8%	0.033	6.30E-03
Earthworks	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	33%	0.056	6.39E-04
Earthworks	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	12%	0.178	1.23E-04
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.063	0.00E+00
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.063	0.00E+00
Earthworks	Dozer, 300 H.P.	Diesel	300	1	85%	29%	0.046	3.26E-03
Earthworks	Loader, Skid Steer, 30 H.P.	Diesel	30	1	85%	42%	0.096	6.81E-04

On-Site Construction Trucks and Emissions								
Work task	Description	Number of Truck Trips per Day	Idling Emission Factor (g/hr)	Idling Time (min)	Cruise Emission Factor (g/VMT)	Cruise + Idling Emission Factor (g/day)		Short-Term PM10 Emissions (g/s)
Demolition	Dump Truck, 12 C.Y., 400 H.P.	23	2.614	3.0	0.665	4.536		1.04E-04
Superstructure	Dump Truck, 12 C.Y., 400 H.P.	23	2.614	3	0.665	4.536		1.04E-04
Superstructure	Concrete Truck	3	2.614	45	0.665	6.080		1.56E-03
Superstructure	Pickup Truck, 3/4 Ton	2	2.614	3	0.665	0.394		1.04E-04
Earthworks	Dump Truck, 12 C.Y., 400 H.P.	23	2.614	3	0.665	4.536		1.04E-04
Earthworks	Concrete Truck	3	2.614	45	0.665	6.080		1.56E-03
Earthworks	Light Truck, 1.5 Ton	2	2.614	3	0.665	0.394		1.04E-04

Community Grid Alternative
CO 8-Hour Analysis

Construction Equipment and Emissions

Work task	Equipment	Engine type	Size (hp)	Qty	Daily use	Average Use	CO Factor (g/hp-hr)	Short-Term CO 8-Hour Factor (g/s)
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.301	2.13E-02
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.301	2.13E-02
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.339	3.85E-03
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.339	3.85E-03
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	1.028	5.82E-02
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	1.028	5.82E-02
Demolition	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	3%	113.906	7.91E-02
Demolition	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	2%	189.629	6.72E-01
Demolition	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	4%	0.160	1.13E-02
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	0.761	8.46E-02
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	0.761	8.46E-02
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	0.398	2.19E-02
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	0.398	2.19E-02
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	6.72E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	6.72E-01
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.160	1.11E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.160	1.13E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.160	1.13E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.160	1.13E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.160	1.13E-02
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.160	9.42E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.160	9.42E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	7%	0.160	1.13E-02
Superstructure	S.P. Crane, 4x4, 12 Ton	Diesel	200	1	35%	30%	0.160	3.10E-03
Earthworks	Hyd. Excavator, 1 C.Y.	Diesel	150	5	85%	4%	0.301	5.33E-02
Earthworks	Hyd. Excavator, 3.5 C.Y.	Diesel	200	4	85%	8%	0.192	3.63E-02
Earthworks	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	33%	0.339	3.85E-03
Earthworks	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	12%	113.906	7.91E-02
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.320	0.00E+00
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.320	0.00E+00
Earthworks	Dozer, 300 H.P.	Diesel	300	1	85%	29%	0.248	1.76E-02
Earthworks	Loader, Skid Steer, 30 H.P.	Diesel	30	1	85%	42%	0.568	4.02E-03

On-Site Construction Trucks and Emissions

Work task	Description	Number of Truck Trips per Day	Idling Emission Factor (g/hr)	Idling Time (min)	Cruise Emission Factor (g/VMT)	Cruise + Idling Emission Factor (g/day)	Short-Term CO Emissions (g/s)
Demolition	Dump Truck, 12 C.Y., 400 H.P.	23	15.898	3.0	3.634	26.640	1.04E-04
Superstructure	Dump Truck, 12 C.Y., 400 H.P.	23	15.898	3	3.634	26.640	1.04E-04
Superstructure	Concrete Truck	3	15.898	45	3.634	36.860	1.56E-03
Superstructure	Pickup Truck, 3/4 Ton	2	15.898	3	3.634	2.316	1.04E-04
Earthworks	Dump Truck, 12 C.Y., 400 H.P.	23	15.898	3	3.634	26.640	1.04E-04
Earthworks	Concrete Truck	3	15.898	45	3.634	36.860	1.56E-03
Earthworks	Light Truck, 1.5 Ton	2	15.898	3	3.634	2.316	1.04E-04

Community Grid Alternative
CO 1-Hour Analysis

Construction Equipment and Emissions

Work task	Equipment	Engine type	Size (hp)	Qty	Daily use	Average Use	CO Factor (g/hp-hr)	Short-Term CO1-Hour Factor (g/s)
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.301	2.51E-02
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.301	2.51E-02
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.339	4.53E-03
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.339	4.53E-03
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	1.028	6.85E-02
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	1.028	6.85E-02
Demolition	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	3%	113.906	1.58E-01
Demolition	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	2%	189.629	7.90E-01
Demolition	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	4%	0.160	1.33E-02
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	0.761	8.46E-02
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	0.761	8.46E-02
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	0.398	2.43E-02
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	0.398	2.43E-02
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	7.90E-01
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	189.629	7.90E-01
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.160	1.11E-02
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.160	1.11E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.160	1.33E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.160	1.33E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.160	1.33E-02
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.160	1.33E-02
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.160	1.11E-02
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.160	1.11E-02
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	7%	0.160	1.33E-02
Superstructure	S.P. Crane, 4x4, 12 Ton	Diesel	200	1	35%	30%	0.160	8.86E-03
Earthworks	Hyd. Excavator, 1 C.Y.	Diesel	150	5	85%	4%	0.301	6.27E-02
Earthworks	Hyd. Excavator, 3.5 C.Y.	Diesel	200	4	85%	8%	0.192	4.27E-02
Earthworks	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	33%	0.339	4.53E-03
Earthworks	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	12%	113.906	1.58E-01
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.320	2.13E-02
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.320	2.13E-02
Earthworks	Dozer, 300 H.P.	Diesel	300	1	85%	29%	0.248	2.07E-02
Earthworks	Loader, Skid Steer, 30 H.P.	Diesel	30	1	85%	42%	0.568	4.73E-03

On-Site Construction Trucks and Emissions

Work task	Description	Number of Truck Trips per Day	Idling Emission Factor (g/hr)	Idling Time (min)	Cruise Emission Factor (g/VMT)	Cruise + Idling Emission Factor (g/day)	Short-Term CO Emissions (g/s)
Demolition	Dump Truck, 12 C.Y., 400 H.P.	23	15.898	3.0	3.634	26.640	1.04E-04
Superstructure	Dump Truck, 12 C.Y., 400 H.P.	23	15.898	3	3.634	26.640	1.04E-04
Superstructure	Concrete Truck	3	15.898	45	3.634	36.860	1.56E-03
Superstructure	Pickup Truck, 3/4 Ton	2	15.898	3	3.634	2.316	1.04E-04
Earthworks	Dump Truck, 12 C.Y., 400 H.P.	23	15.898	3	3.634	26.640	1.04E-04
Earthworks	Concrete Truck	3	15.898	45	3.634	36.860	1.56E-03
Earthworks	Light Truck, 1.5 Ton	2	15.898	3	3.634	2.316	1.04E-04

Community Grid Alternative PM2.5 Annual Analysis

Construction Equipment and Emissions

Work task	Equipment	Engine type	Size (hp)	Qty	Daily use	Average Use	PM25 Factor (g/hp-hr)	Annual PM25 Factor (g/s)
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.067	2.25E-04
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.067	2.25E-04
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.055	7.29E-06
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.055	7.29E-06
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	0.144	5.76E-04
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	0.144	5.76E-04
Demolition	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	3%	0.172	7.18E-06
Demolition	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	2%	0.074	6.20E-06
Demolition	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	4%	0.032	1.06E-04
								1.74E-03
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	0.026	5.51E-04
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	0.026	5.51E-04
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	0.080	1.67E-03
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	0.080	1.67E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	1.27E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	1.27E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	1.27E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	1.27E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	1.27E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	1.27E-04
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	0.074	1.27E-04
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.032	3.32E-04
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.032	3.32E-04
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.032	3.32E-04
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.032	3.32E-04
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.032	3.19E-04
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.032	3.19E-04
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.032	3.19E-04
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.032	3.19E-04
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.032	1.77E-04
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.032	1.77E-04
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	7%	0.032	1.86E-04
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	7%	0.032	1.86E-04
Superstructure	S.P. Crane, 4x4, 12 Ton	Diesel	200	1	35%	30%	0.032	5.32E-04
								9.19E-03
Earthworks	Hyd. Excavator, 1 C.Y.	Diesel	150	5	85%	4%	0.067	5.62E-04
Earthworks	Hyd. Excavator, 3.5 C.Y.	Diesel	200	4	85%	8%	0.032	5.75E-04
Earthworks	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	33%	0.055	2.41E-04
Earthworks	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	12%	0.172	2.87E-05
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.061	0.00E+00
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.061	0.00E+00
Earthworks	Dozer, 300 H.P.	Diesel	300	1	85%	29%	0.045	1.08E-03
Earthworks	Loader, Skid Steer, 30 H.P.	Diesel	30	1	85%	42%	0.093	3.27E-04
								2.81E-03

On-Site Construction Trucks and Emissions

[illegible]

Community Grid Alternative NO2 Annual Analysis

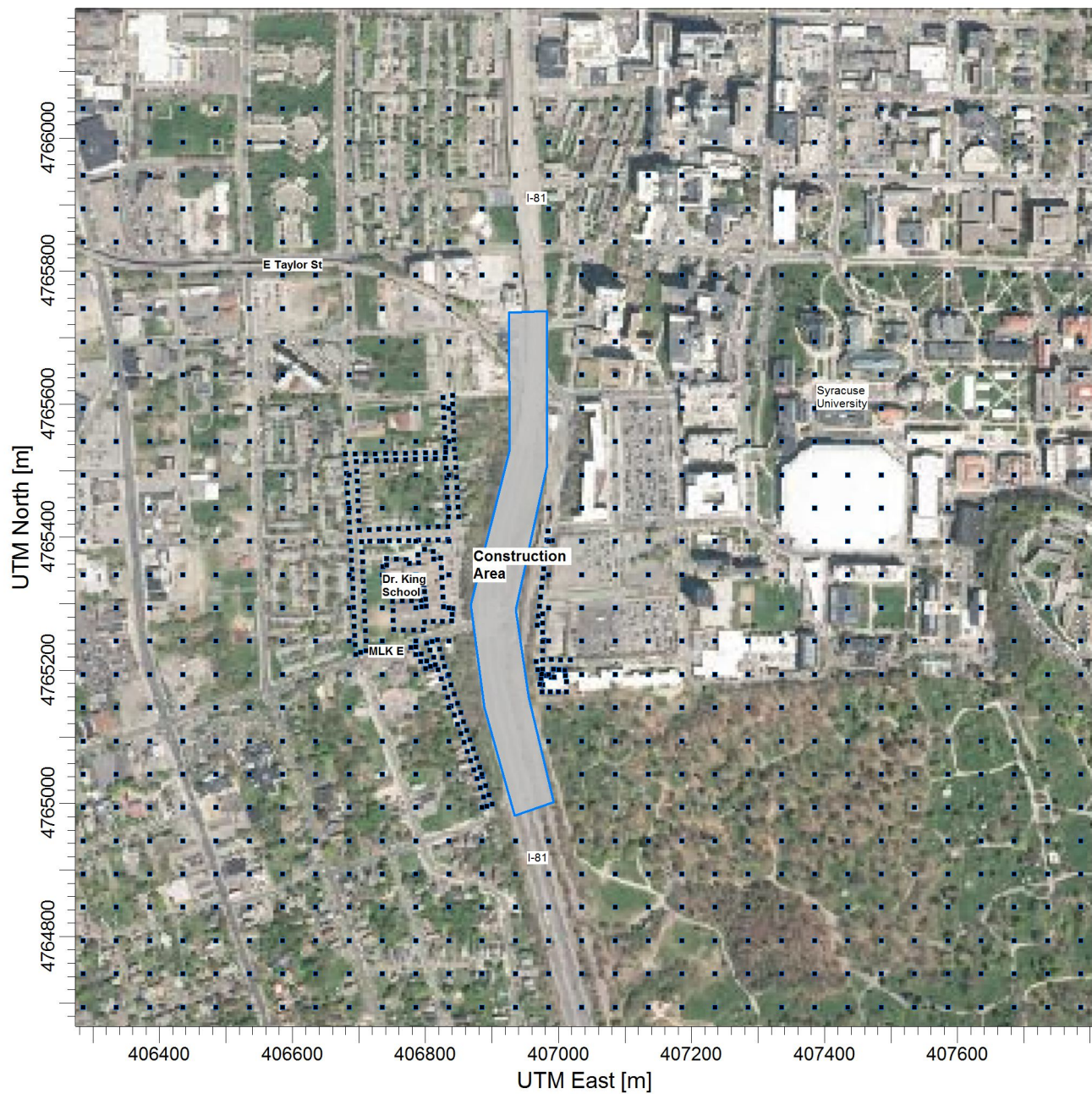
Construction Equipment and Emissions

Work task	Equipment	Engine type	Size (hp)	Qty	Daily use	Average Use	NO2 Factor (g/hp-hr)	Annual NO2 Factor (g/s)
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.714	2.38E-03
Demolition	Hyd. Excavator, 1 C.Y.	Diesel	150	2	85%	4%	0.714	2.38E-03
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.853	1.14E-04
Demolition	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	1%	0.853	1.14E-04
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	0.846	3.39E-03
Demolition	Backhoe Loader, 80 H.P.	Diesel	80	3	85%	6%	0.846	3.39E-03
Demolition	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	3%	1.345	5.60E-05
Demolition	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	2%	1.522	1.27E-04
Demolition	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	4%	0.719	2.40E-03
								1.43E-02
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	1.790	3.78E-02
Superstructure	Concrete Pump (Small)	Diesel	400	1	100%	19%	1.790	3.78E-02
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	1.576	3.27E-02
Superstructure	Hammer, Diesel, 41k ft-lb	Diesel	220	1	90%	34%	1.576	3.27E-02
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	1.522	2.60E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	1.522	2.60E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	1.522	2.60E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	1.522	2.60E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	1.522	2.60E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	1.522	2.60E-03
Superstructure	Welder, Gas Engine, 300 amp	Gasoline	15	1	85%	41%	1.522	2.60E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.719	7.48E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.719	7.48E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.719	7.48E-03
Superstructure	Crawler Crane, 75 Ton	Diesel	250	1	100%	15%	0.719	7.48E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.719	7.19E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.719	7.19E-03
Superstructure	Lattice Boom Crane, 150 Ton	Diesel	300	1	85%	12%	0.719	7.19E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.719	3.99E-03
Superstructure	Hyd. Crane, 25 Ton	Diesel	250	1	85%	8%	0.719	3.99E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	7%	0.719	4.19E-03
Superstructure	Hyd. Crane, 55 Ton	Diesel	300	1	85%	7%	0.719	4.19E-03
Superstructure	S.P. Crane, 4x4, 12 Ton	Diesel	200	1	35%	30%	0.719	1.20E-02
								2.46E-01
Earthworks	Hyd. Excavator, 1 C.Y.	Diesel	150	5	85%	4%	0.714	5.95E-03
Earthworks	Hyd. Excavator, 3.5 C.Y.	Diesel	200	4	85%	8%	0.636	1.13E-02
Earthworks	Backhoe Loader, 48 H.P.	Diesel	48	1	85%	33%	0.853	3.75E-03
Earthworks	Vibrating Plate, Gas, 21"	Gasoline	5	1	50%	12%	1.345	2.24E-04
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.953	0.00E+00
Earthworks	Sheepsfoot Roller, 240 H.P.	Diesel	240	1	0%	0%	0.953	0.00E+00
Earthworks	Dozer, 300 H.P.	Diesel	300	1	85%	29%	0.760	1.84E-02
Earthworks	Loader, Skid Steer, 30 H.P.	Diesel	30	1	85%	42%	0.942	3.30E-03
								4.29E-02

On-Site Construction Trucks and Emissions

[illegible]

PROJECT TITLE:
I-81 Construction Analysis



COMMENTS:	SOURCES: 51	Construction Area and Receptors Map	
	RECEPTORS: 1174 ■		
		SCALE: 1:9,622 0  0.3 km	
			PROJECT NO.:

Construction
Mobile Source Microscale Analysis

Construction Traffic
Diversions Analysis
Site - Viaduct
Links and Receptors



Construction Traffic
Diversions Analysis
Site - Community Grid
Links and Receptors



Note: Links with projected hourly volumes below 1 veh/hr use hourly volume of 1 veh/hr.

Cal3QHC Link Number	Link Description	Link Coordinates (m)				Mixing Width	Traffic Volumes																								MOVES2014a Emissions Reference	Fugitive Dust Emission Reference		
		Head		Tail			Hour																											
		X (UTM)	Y (UTM)	X (UTM)	Y (UTM)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			Daily Total	
1	S1-1:N Crouse NB @ Lodi Str	7,456.3	7,377.0	7,455.6	7,353.2	4.2	45	34	25	20	12	20	105	220	340	246	246	278	293	284	263	313	231	293	166	120	102	79	75	47	3,857	101	3	
2	S1-2:N Crouse NB @ Hawley A	7,455.6	7,353.2	7,451.0	7,234.0	4.5	45	34	25	20	12	20	105	220	340	246	246	278	293	284	263	313	231	293	166	120	102	79	75	47	3,857	102	3	
3	S1-3:N Crouse NB @ Burnet A	7,451.0	7,234.0	7,451.0	7,188.3	5.0	45	34	25	20	12	20	105	220	340	246	246	278	293	284	263	313	231	293	166	120	102	79	75	47	3,857	103	3	
4	S1-4:N Crouse NB @ Canal St	7,447.8	7,071.2	7,447.2	7,024.7	6.6	122	91	68	55	32	55	284	595	521	667	667	753	794	771	712	848	1029	794	451	325	275	212	203	127	10,451	104	4	
5	S1-5:S Crouse NB @ Erie Bou	7,447.2	7,024.7	7,445.5	6,961.2	5.7	113	84	63	50	30	50	262	548	437	615	615	694	731	710	656	781	991	731	416	299	254	196	187	117	9,630	105	4	
6	S1-6:S Crouse NB @ Water St	7,445.5	6,961.2	7,445.9	6,925.4	5.7	113	84	63	50	30	50	262	548	437	615	615	694	731	710	656	781	991	731	416	299	254	196	187	117	9,630	105	4	
7	S1-7:S Crouse NB @ Water St	7,445.9	6,925.4	7,445.5	6,913.7	5.7	113	84	63	50	30	50	262	548	437	615	615	694	731	710	656	781	991	731	416	299	254	196	187	117	9,630	105	4	
8	S1-8:S Crouse NB @ Water St	7,445.5	6,913.7	7,442.4	6,874.2	5.7	113	84	63	50	30	50	262	548	437	615	615	694	731	710	656	781	991	731	416	299	254	196	187	117	9,630	105	4	
9	S1-9:S Crouse NB @ Water St	7,442.4	6,874.2	7,438.9	6,824.8	5.7	113	84	63	50	30	50	262	548	437	615	615	694	731	710	656	781	991	731	416	299	254	196	187	117	9,630	105	4	
10	S1-10:S Crouse NB @ Water St	7,438.9	6,824.8	7,437.5	6,767.7	3.7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24	106	1	
11	S1-11:S Crouse NB @ E Fayett	7,433.4	6,767.8	7,434.8	6,824.9	2.5	48	35	27	21	13	21	110	231	352	259	259	292	307	299	276	328	248	307	175	126	107	82	79	49	4,051	107	3	
12	S1-12:S Crouse SB fr E Fayett	7,434.8	6,824.9	7,434.4	6,874.7	7.0	48	35	27	21	13	21	110	231	352	259	259	292	307	299	276	328	248	307	175	126	107	82	79	49	4,051	108	3	
13	S1-13:S Crouse SB @ E Fayett	7,434.4	6,874.7	7,433.6	6,894.7	7.0	48	35	27	21	13	21	110	231	352	259	259	292	307	299	276	328	248	307	175	126	107	82	79	49	4,051	108	3	
14	S1-14:S Crouse SB @ E Fayett	7,433.6	6,894.7	7,434.0	6,917.3	7.0	48	35	27	21	13	21	110	231	352	259	259	292	307	299	276	328	248	307	175	126	107	82	79	49	4,051	108	3	
15	S1-15:S Crouse SB @ E Fayett	7,434.0	6,917.3	7,434.7	6,931.2	7.0	48	35	27	21	13	21	110	231	352	259	259	292	307	299	276	328	248	307	175	126	107	82	79	49	4,051	108	3	
16	S1-16:S Crouse SB @ E Fayett	7,434.7	6,931.2	7,436.0	6,948.4	7.0	48	35	27	21	13	21	110	231	352	259	259	292	307	299	276	328	248	307	175	126	107	82	79	49	4,051	108	3	
17	S1-17:S Crouse SB @ E Fayett	7,436.0	6,948.4	7,437.5	6,961.3	7.0	48	35	27	21	13	21	110	231	352	259	259	292	307	299	276	328	248	307	175	126	107	82	79	49	4,051	108	3	
18	S1-18:S Crouse SB @ E Fayett	7,437.5	6,961.3	7,439.1	7,024.7	7.0	48	35	27	21	13	21	110	231	352	259	259	292	307	299	276	328	248	307	175	126	107	82	79	49	4,051	108	3	
19	S1-19:S Crouse SB @ E Fayett	7,439.1	7,024.7	7,441.2	7,071.4	6.5	69	51	38	31	18	31	160	335	516	375	375	423	446	433	401	477	355	446	254	183	155	120	114	71	5,877	109	4	
20	S1-20:S Crouse SB @ Water St	7,441.2	7,071.4	7,443.3	7,120.3	5.5	128	95	71	57	33	57	297	623	903	698	698	787	830	806	745	886	718	830	472	340	288	222	213	132	10,929	110	4	
21	S1-21:N Crouse SB @ Erie Bou	7,445.6	7,234.8	7,452.4	7,353.2	4.5	27	20	15	12	7	12	61	128	126	144	144	162	162	171	166	153	182	207	171	97	70	60	46	44	28	2,253	111	2
22	S1-22:N Crouse SB @ Canal St	7,452.4	7,353.2	7,453.1	7,377.1	4.2	27	20	15	12	7	12	61	128	126	144	144	162	162	171	166	153	182	207	171	97	70	60	46	44	28	2,253	112	2
23	S1-23:N Crouse SB @ Burnet A	7,749.3	7,057.0	7,625.4	7,060.9	6.0	205	152	114	91	54	91	478	1000	1087	1121	1121	1265	1333	1295	1197	1424	1518	1333	758	546	462	356	341	213	17,555	113	3	
24	S1-24:N Crouse SB @ Hawley A	7,625.4	7,060.9	7,444.2	7,066.1	5.8	205	152	114	91	54	91	478	1000	1087	1121	1121	1265	1333	1295	1197	1424	1518	1333	758	546	462	356	341	213	17,555	114	3	
25	S1-25:Erie Bou EB @ Walnut S	7,444.3	7,068.0	7,390.4	7,069.9	9.3	205	152	114	91	54	91	478	1000	1087	1121	1121	1265	1333	1295	1197	1424	1518	1333	758	546	462	356	341	213	17,555	115	4	
26	S1-26:Erie Bou EB @ Universi	7,390.3	7,068.0	7,164.6	7,075.5	7.4	205	152	114	91	54	91	478	1000	1087	1121	1121	1265	1333	1295	1197	1424	1518	1333	758	546	462	356	341	213	17,555	115	4	
27	S1-27:Erie Bou EB @ Crouse A	7,164.6	7,075.5	6,985.6	7,080.4	6.1	205	152	114	91	54	91	478	1000	1087	1121	1121	1265	1333	1295	1197	1424	1518	1333	758	546	462	356	341	213	17,555	116	4	
28	S1-28:Erie Bou EB @ Crouse A	7,446.2	7,120.3	7,349.7	7,121.2	4.0	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	2	1	1	1	1	1	1	27	117	1	
29	S1-29:Erie Bou EB @ Forman A	7,709.4	7,223.8	7,597.9	7,228.8	4.1	58	43	33	26	15	26	135	283	195	318	318	358	378	367	339	403	542	378	215	155	131	101	97	60	4,974	118	3	
30	S1-30:Canal St EB @ Walnut S	7,597.9	7,228.8	7,449.7	7,231.6	4.1	58	43	33	26	15	26	135	283	195	318	318	358	378	367	339	403	542	378	215	155	131	101	97	60	4,974	118	3	
31	S1-31:Canal St EB @ Universi	7,449.7	7,231.6	7,229.1	7,235.6	3.4	58	43	33	26	15	26	135	283	195	318	318	358	378	367	339	403	542	378	215	155	131	101	97	60	4,974	119	3	
32	S1-32:Canal St EB @ Crouse A	7,229.1	7,235.6	7,187.9	7,236.3	3.4	58	43	33	26	15	26	135	283	195	318	318	358	378	367	339	403	542	378	215	155	131	101	97	60	4,974	120	3	
33	S1-33:Burnet A EB @ Lodi Str	7,709.4	7,223.8	7,449.7	7,231.6	3.5	41	31	23	19	11	19	95	199	229	223	223	251	265	257</														

Site 1

Community Grid Alternative Construction Period

Cal3QHC Link Information

Cal3QHC Link Number	Link Description	Link Coordinates (m)				Mixing Width	Traffic Volumes																								MOVES2014a Emissions Reference	Fugitive Dust Emission Reference	
		Head		Tail			Hour																										
		X (UTM)	Y (UTM)	X (UTM)	Y (UTM)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			Daily Total
74	S1-74:I-690 Of WB @ Crouse A	7,564.0	7,183.8	7,659.0	7,173.6	10.6	794	588	441	353	206	353	1851	3879	4034	4349	4349	4907	5172	5025	4643	5524	6073	5172	2939	2116	1793	1381	1323	823	68,088	144	5
75	S1-75:I-690 Of WB @ Crouse A	7,659.0	7,173.6	7,734.4	7,167.7	10.6	794	588	441	353	206	353	1851	3879	4034	4349	4349	4907	5172	5025	4643	5524	6073	5172	2939	2116	1793	1381	1323	823	68,088	144	5

Note: Links with projected hourly volumes below 1 veh/hr use hourly volume of 1 veh/hr.

Cal3QHC Link Number	Link Description	Link Coordinates (m)					Mixing Width	Traffic Volumes																								MOVES2014a Emissions Reference	Fugitive Dust Emission Reference
		Head		Tail		Hour																											
		X (UTM)	Y (UTM)	X (UTM)	Y (UTM)	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Total		
1	S5-1:I-81 NB @ I-81 of	6,967.7	5,597.1	6,916.3	5,394.9	17.5	443	293	213	218	296	656	1354	2279	3234	1736	1885	2089	2307	2231	2672	3433	2860	3597	2211	1659	1529	1557	1005	758	40,515	501	3
2	S5-2:I-81 NB @ I-81 of	6,916.3	5,394.9	6,911.3	5,371.9	17.5	443	293	213	218	296	656	1354	2279	3234	1736	1885	2089	2307	2231	2672	3433	2860	3597	2211	1659	1529	1557	1005	758	40,515	501	3
3	S5-3:I-81 NB @ I-81 of	6,911.3	5,371.9	6,902.9	5,325.6	17.5	443	293	213	218	296	656	1354	2279	3234	1736	1885	2089	2307	2231	2672	3433	2860	3597	2211	1659	1529	1557	1005	758	40,515	501	3
4	S5-4:I-81 NB @ I-81 of	6,902.9	5,325.6	6,900.7	5,271.1	17.5	443	293	213	218	296	656	1354	2279	3234	1736	1885	2089	2307	2231	2672	3433	2860	3597	2211	1659	1529	1557	1005	758	40,515	501	4
5	S5-5:I-81 NB @ I-81 of	6,900.7	5,271.1	6,901.4	5,227.8	17.5	443	293	213	218	296	656	1354	2279	3234	1736	1885	2089	2307	2231	2672	3433	2860	3597	2211	1659	1529	1557	1005	758	40,515	501	4
6	S5-6:I-81 NB @ I-81 of	6,901.4	5,227.8	6,907.3	5,183.6	17.5	443	293	213	218	296	656	1354	2279	3234	1736	1885	2089	2307	2231	2672	3433	2860	3597	2211	1659	1529	1557	1005	758	40,515	501	4
7	S5-7:I-81 NB @ I-81 of	6,907.3	5,183.6	6,917.6	5,134.4	17.5	443	293	213	218	296	656	1354	2279	3234	1736	1885	2089	2307	2231	2672	3433	2860	3597	2211	1659	1529	1557	1005	758	40,515	501	4
8	S5-8:I-81 NB @ I-81 of	6,917.6	5,134.4	6,954.5	4,989.9	17.5	443	293	213	218	296	656	1354	2279	3234	1736	1885	2089	2307	2231	2672	3433	2860	3597	2211	1659	1529	1557	1005	758	40,515	502	4
9	S5-9:I-81 SB @ I-81 on	6,939.0	4,989.3	6,894.5	5,163.7	17.5	387	232	185	227	382	1013	2213	3155	2198	2195	2032	1989	2086	2252	2368	2589	3216	2533	2018	1345	1142	1060	832	573	38,222	503	4
10	S5-10:I-81 SB @ I-81 on	6,894.5	5,163.7	6,887.5	5,221.6	17.5	387	232	185	227	382	1013	2213	3155	2198	2195	2032	1989	2086	2252	2368	2589	3216	2533	2018	1345	1142	1060	832	573	38,222	504	1
11	S5-11:I-81 SB @ I-81 on	6,887.5	5,221.6	6,885.3	5,267.3	17.5	387	232	185	227	382	1013	2213	3155	2198	2195	2032	1989	2086	2252	2368	2589	3216	2533	2018	1345	1142	1060	832	573	38,222	504	3
12	S5-12:I-81 SB @ I-81 on	6,885.3	5,267.3	6,886.2	5,294.2	17.5	387	232	185	227	382	1013	2213	3155	2198	2195	2032	1989	2086	2252	2368	2589	3216	2533	2018	1345	1142	1060	832	573	38,222	504	3
13	S5-13:I-81 SB @ I-81 on	6,886.2	5,294.2	6,891.6	5,332.1	17.5	387	232	185	227	382	1013	2213	3155	2198	2195	2032	1989	2086	2252	2368	2589	3216	2533	2018	1345	1142	1060	832	573	38,222	504	3
14	S5-14:I-81 SB @ I-81 on	6,891.6	5,332.1	6,897.0	5,370.0	17.5	387	232	185	227	382	1013	2213	3155	2198	2195	2032	1989	2086	2252	2368	2589	3216	2533	2018	1345	1142	1060	832	573	38,222	504	3
15	S5-15:I-81 SB @ I-81 on	6,897.0	5,370.0	6,907.5	5,409.8	17.5	387	232	185	227	382	1013	2213	3155	2198	2195	2032	1989	2086	2252	2368	2589	3216	2533	2018	1345	1142	1060	832	573	38,222	504	3
16	S5-16:I-81 SB @ I-81 on	6,907.5	5,409.8	6,917.9	5,449.6	17.5	387	232	185	227	382	1013	2213	3155	2198	2195	2032	1989	2086	2252	2368	2589	3216	2533	2018	1345	1142	1060	832	573	38,222	504	3
17	S5-17:I-81 SB @ I-81 on	6,917.9	5,449.6	6,940.2	5,541.8	17.5	387	232	185	227	382	1013	2213	3155	2198	2195	2032	1989	2086	2252	2368	2589	3216	2533	2018	1345	1142	1060	832	573	38,222	504	3
18	S5-18:I-81 SB @ I-81 on	6,940.2	5,541.8	6,950.0	5,598.5	17.5	387	232	185	227	382	1013	2213	3155	2198	2195	2032	1989	2086	2252	2368	2589	3216	2533	2018	1345	1142	1060	832	573	38,222	504	3
19	S5-19:Martin L EB @ Almond S	7,016.5	5,587.8	7,016.5	5,551.0	14.1	44	27	25	12	24	62	177	293	473	384	332	314	307	294	322	346	230	286	244	191	151	108	91	77	4,814	505	4
20	S5-20:Martin L EB fr Oakwood	7,016.5	5,551.0	7,014.8	5,495.4	11.1	44	27	25	12	24	62	177	293	473	384	332	314	307	294	322	346	230	286	244	191	151	108	91	77	4,814	505	4
21	S5-21:Martin L EB fr Oakwood	7,014.8	5,495.4	6,971.9	5,415.3	11.1	44	27	25	12	24	62	177	293	473	384	332	314	307	294	322	346	230	286	244	191	151	108	91	77	4,814	505	2
22	S5-22:Martin L EB fr Oakwood	6,971.9	5,415.3	6,951.9	5,381.5	11.1	44	27	25	12	24	62	177	293	473	384	332	314	307	294	322	346	230	286	244	191	151	108	91	77	4,814	505	2
23	S5-23:Martin L EB fr Oakwood	6,951.9	5,381.5	6,939.4	5,289.6	11.1	44	27	25	12	24	62	177	293	473	384	332	314	307	294	322	346	230	286	244	191	151	108	91	77	4,814	505	3
24	S5-24:Martin L EB fr Oakwood	6,939.4	5,289.6	6,813.2	5,248.5	11.1	44	27	25	12	24	62	177	293	473	384	332	314	307	294	322	346	230	286	244	191	151	108	91	77	4,814	505	3
25	S5-25:Martin L EB fr Oakwood	6,813.2	5,248.5	6,714.8	5,216.5	11.1	44	27	25	12	24	62	177	293	473	384	332	314	307	294	322	346	230	286	244	191	151	108	91	77	4,814	505	4
26	S5-26:Martin L EB fr Oakwood	6,714.8	5,216.5	6,702.7	5,213.9	11.1	44	27	25	12	24	62	177	293	473	384	332	314	307	294	322	346	230	286	244	191	151	108	91	77	4,814	505	4
27	S5-27:Martin L EB @ Oakwood	6,702.7	5,213.9	6,646.9	5,194.7	11.1	24	14	14	7	13	33	94	155	233	203	176	167	163	156	171	183	139	151	129	101	80	58	48	41	2,553	506	4
28	S5-28:Martin L WB fr Oakwood	6,645.4	5,199.3	6,700.8	5,217.4	11.1	26	16	15	7	14	36	103	171	122	224	194	184	179	172	188	202	288	167	143	111	88	63	53	45	2,811	507	1
29	S5-29:Martin L WB @ Oakwood	6,700.8	5,217.4	6,931.1	5,293.0	11.1	24	15	14	7	13	34	95	158	124	207	179	169	165	159	174	186	254	154	132	103	81	58	49	42	2,596	508	3
30	S5-30:Martin L WB fr Almond S	6,931.1	5,293.0	6,937.1	5,308.8	11.1	24	15	14	7	13	34	95	158	124	207	179	169	165	159	174	186	254	154	132	103	81	58	49	42	2,596	508	3
31	S5-31:Martin L WB fr Almond S	6,937.1	5,308.8	6,947.9	5,383.7	11.1	24	15	14	7	13	34	95	158	124	207	179	169	165	159	174	186	254	154	132	103	81	58	49	42	2,596	508	3
32	S5-32:Martin L WB fr Almond S	6,947.9	5,383.7	6,965.6	5,413.2	11.1	24	15	14	7	13	34	95	158	124	207	179	169	165	159	174	186	254	154	132	103	81	58	49	42	2,596	508	3
33	S5-33:Martin L WB fr Almond S	6,965.6	5,413.2	7,008.2	5,492.8	11.1	24	15	14	7	13	34	95	158	124	207	179	169	165	159	174	186	254	154	132	103	81	58	49	42	2,596	508	3
34	S5-34:Martin L WB fr Almond S	7,008.2	5,492.8	7,010.0	5,551.4	11.1	24	15	14	7	13	34	95	158	124	207	179	169	165	159	174	186	254	154	132	103	81	58	49	42	2,596	508	3
35	S5-35:Martin L WB fr Almond S	7,010.0	5,551.4	7,010.0	5,589.5	14.1	24	15	14	7	13	34	95	158	124	207	179	169	165	159	174	186	254	154	132	103	81	58	49	42	2,596	508	3

Note: Links with projected hourly volumes below 1 veh/hr use hourly volume of 1 veh/hr.

Site 5

Viaduct Alternative Construction Period

Cal3QHC Link Information

Cal3QHC Link Number	Link Description	Link Coordinates (m)				Mixing Width	Traffic Volumes																								MOVES2014a Emissions Reference	Fugitive Dust Emission Reference	
		Head		Tail			Hour																										
		X (UTM)	Y (UTM)	X (UTM)	Y (UTM)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			Daily Total
1	S5-1:I-81 of NB @ Martin L	6,935.8	5,289.3	6,927.0	5,221.0	13.2	124	82	60	61	83	184	380	640	1384	487	529	586	647	626	750	963	325	1009	620	466	429	437	282	213	11,367	501	3
2	S5-2:I-81 of NB @ Martin L	6,927.0	5,221.0	6,928.0	5,178.5	13.2	124	82	60	61	83	184	380	640	1384	487	529	586	647	626	750	963	325	1009	620	466	429	437	282	213	11,367	501	3
3	S5-3:I-81 of NB @ Martin L	6,928.0	5,178.5	6,935.3	5,129.1	13.2	124	82	60	61	83	184	380	640	1384	487	529	586	647	626	750	963	325	1009	620	466	429	437	282	213	11,367	501	3
4	S5-4:I-81 of NB @ Martin L	6,935.3	5,129.1	6,962.5	4,984.0	13.2	124	82	60	61	83	184	380	640	1384	487	529	586	647	626	750	963	325	1009	620	466	429	437	282	213	11,367	502	4
5	S5-5:I-81 on SB fr Martin L	6,932.8	4,961.4	6,877.5	5,123.6	13.2	419	251	200	246	414	1099	2401	3424	2344	2382	2205	2158	2264	2444	2570	2809	3531	2749	2190	1459	1239	1150	902	621	41,471	503	4
6	S5-6:I-81 on SB fr Martin L	6,877.5	5,123.6	6,861.9	5,185.1	13.2	419	251	200	246	414	1099	2401	3424	2344	2382	2205	2158	2264	2444	2570	2809	3531	2749	2190	1459	1239	1150	902	621	41,471	504	4
7	S5-7:I-81 on SB fr Martin L	6,861.9	5,185.1	6,849.1	5,259.5	13.2	419	251	200	246	414	1099	2401	3424	2344	2382	2205	2158	2264	2444	2570	2809	3531	2749	2190	1459	1239	1150	902	621	41,471	504	4
8	S5-8:Martin L EB @ Almond S	7,016.5	5,587.8	7,016.5	5,551.0	14.1	5	3	3	2	3	7	19	31	52	41	35	34	33	31	34	37	22	31	26	21	16	12	10	9	517	505	4
9	S5-9:Martin L EB fr I-81 of	7,016.5	5,551.0	7,014.8	5,495.4	11.1	5	3	3	2	3	7	19	31	52	41	35	34	33	31	34	37	22	31	26	21	16	12	10	9	517	505	4
10	S5-10:Martin L EB fr I-81 of	7,014.8	5,495.4	6,971.9	5,415.3	11.1	5	3	3	2	3	7	19	31	52	41	35	34	33	31	34	37	22	31	26	21	16	12	10	9	517	505	1
11	S5-11:Martin L EB fr I-81 of	6,971.9	5,415.3	6,951.9	5,381.5	11.1	5	3	3	2	3	7	19	31	52	41	35	34	33	31	34	37	22	31	26	21	16	12	10	9	517	505	3
12	S5-12:Martin L EB fr I-81 of	6,951.9	5,381.5	6,939.3	5,288.5	11.1	5	3	3	2	3	7	19	31	52	41	35	34	33	31	34	37	22	31	26	21	16	12	10	9	517	505	3
13	S5-13:Martin L EB @ I-81 of	6,939.3	5,288.5	6,849.4	5,257.6	11.1	5	3	3	2	3	7	19	31	52	41	35	34	33	31	34	37	22	31	26	21	16	12	10	9	517	505	3
14	S5-14:Martin L EB @ I-81 on	6,849.4	5,257.6	6,702.7	5,213.9	11.1	74	45	42	21	39	104	297	491	442	644	557	527	515	494	540	579	737	479	409	319	252	181	152	129	8,069	506	3
15	S5-15:Martin L EB @ Oakwood	6,702.7	5,213.9	6,646.9	5,194.7	11.1	58	35	33	16	31	82	233	386	451	506	438	414	405	388	425	456	476	377	322	251	199	143	120	102	6,347	507	3
16	S5-16:Martin L WB fr Oakwood	6,645.4	5,199.3	6,700.8	5,217.4	11.1	58	35	33	16	31	82	233	386	451	506	438	414	405	388	425	456	476	377	322	251	199	143	120	102	6,347	507	3
17	S5-17:Martin L WB @ Oakwood	6,700.8	5,217.4	6,848.7	5,262.9	15.6	58	35	33	16	31	82	233	386	451	506	438	414	405	388	425	456	476	377	322	251	199	143	120	102	6,347	507	3
18	S5-18:Martin L WB @ I-81 on	6,848.7	5,262.9	6,934.7	5,292.5	15.6	58	35	33	16	31	82	233	386	451	506	438	414	405	388	425	456	476	377	322	251	199	143	120	102	6,347	507	3
19	S5-19:Martin L WB @ I-81 of	6,934.7	5,292.5	6,947.9	5,383.7	11.1	18	11	10	5	10	24	69	114	89	150	130	123	120	115	126	135	185	112	95	75	59	43	36	30	1,884	508	4
20	S5-20:Martin L WB @ I-81 of	6,947.9	5,383.7	6,965.6	5,413.2	11.1	18	11	10	5	10	24	69	114	89	150	130	123	120	115	126	135	185	112	95	75	59	43	36	30	1,884	508	4
21	S5-21:Martin L WB @ I-81 of	6,965.6	5,413.2	7,008.2	5,492.8	11.1	18	11	10	5	10	24	69	114	89	150	130	123	120	115	126	135	185	112	95	75	59	43	36	30	1,884	508	2
22	S5-22:Martin L WB @ I-81 of	7,008.2	5,492.8	7,010.0	5,551.4	11.1	18	11	10	5	10	24	69	114	89	150	130	123	120	115	126	135	185	112	95	75	59	43	36	30	1,884	508	2
23	S5-23:Martin L WB @ I-81 of	7,010.0	5,551.4	7,010.0	5,589.5	14.1	18	11	10	5	10	24	69	114	89	150	130	123	120	115	126	135	185	112	95	75	59	43	36	30	1,884	508	3

Note: Links with projected hourly volumes below 1 veh/hr use hourly volume of 1 veh/hr.

	MOVES2014a Emissions Reference	Community Grid Alternative Construction Period							
		PM ₁₀ Emission Rate (g/mi)				PM _{2.5} Emission Rate (g/mi)			
		AM	MD	PM	ON	AM	PM	AM	PM
Site 1	101	0.270054026	0.26853455	0.272471907	0.066845854	0.060731475	0.059387319	0.059960465	0.01844475
	102	0.270054026	0.26853455	0.272471907	0.066845854	0.060731475	0.059387319	0.059960465	0.01844475
	103	0.270054026	0.26853455	0.272471907	0.066845854	0.060731475	0.059387319	0.059960465	0.01844475
	104	0.240633113	0.239150141	0.497787543	0.066845854	0.054888987	0.053577135	0.107517802	0.01844475
	105	0.102114045	0.100799093	0.091246285	0.066845854	0.028206202	0.027042967	0.023855177	0.01844475
	106	0	0	0	0	0	0	0	0
	107	0.072907757	0.072106964	0.124157902	0.066845854	0.019640308	0.018932026	0.031078165	0.01844475
	108	0.072907757	0.072106964	0.124157902	0.066845854	0.019640308	0.018932026	0.031078165	0.01844475
	109	0.120839517	0.119505963	0.135617232	0.066845854	0.031613967	0.03043423	0.033315455	0.01844475
	110	0.19888137	0.197447904	0.327808226	0.066845854	0.046780907	0.045512859	0.070909516	0.01844475
	111	0.150143317	0.148773958	0.166459909	0.066845854	0.037176412	0.035965072	0.039084834	0.01844475
	112	0.150143317	0.148773958	0.166459909	0.066845854	0.037176412	0.035965072	0.039084834	0.01844475
	113	0.298706235	0.297232438	0.522489043	0.096763158	0.105583396	0.104279618	0.1920797	0.038848774
	114	0.298706235	0.297232438	0.522489043	0.096763158	0.105583396	0.104279618	0.1920797	0.038848774
	115	0.298706235	0.297232438	0.522489043	0.096763158	0.105583396	0.104279618	0.1920797	0.038848774
	116	0.298706235	0.297232438	0.522489043	0.096763158	0.105583396	0.104279618	0.1920797	0.038848774
	117	0.298706235	0.297232438	0.522489043	0.096763158	0.105583396	0.104279618	0.1920797	0.038848774
	118	0.102194855	0.100879802	0.105312016	0.066845854	0.028221254	0.027057919	0.027697683	0.01844475
	119	0.102194855	0.100879802	0.105312016	0.066845854	0.028221254	0.027057919	0.027697683	0.01844475
	120	0.102194855	0.100879802	0.105312016	0.066845854	0.028221254	0.027057919	0.027697683	0.01844475
	121	0.108382872	0.107061719	0.107526073	0.066845854	0.029373107	0.028204372	0.028108001	0.01844475
	122	0.108382872	0.107061719	0.107526073	0.066845854	0.029373107	0.028204372	0.028108001	0.01844475
	123	0.108382872	0.107061719	0.107526073	0.066845854	0.029373107	0.028204372	0.028108001	0.01844475
	124	0.108382872	0.107061719	0.107526073	0.066845854	0.029373107	0.028204372	0.028108001	0.01844475
	125	0.171578103	0.170186042	0.369437055	0.066845854	0.04120499	0.039973547	0.079146151	0.01844475
	126	0.171578103	0.170186042	0.369437055	0.066845854	0.04120499	0.039973547	0.079146151	0.01844475
	127	0.171578103	0.170186042	0.369437055	0.066845854	0.04120499	0.039973547	0.079146151	0.01844475
	128	0.066967132	0.066036415	0.075939808	0.044060923	0.034027806	0.033204476	0.038332318	0.028797213
	129	0.06702954	0.066103832	0.076037823	0.044047785	0.033917925	0.033099103	0.038173881	0.028742142
	130	0.066970037	0.066038419	0.075941311	0.044062667	0.034042061	0.03321793	0.038345276	0.028805198
	131	0.067029741	0.066104033	0.076038023	0.044048266	0.033918216	0.033099394	0.038174071	0.028742878
	132	0.217188876	0.216515916	0.389736222	0.044060472	0.092381715	0.091786404	0.146970616	0.028796381
	133	0.216983517	0.216305641	0.388227919	0.044116265	0.092620883	0.092021258	0.146905874	0.028905027
	134	0.217294214	0.21662316	0.389751255	0.043979645	0.091953541	0.091359835	0.146293833	0.028666827
	135	0.217184261	0.216511502	0.389601928	0.044059681	0.09231771	0.091722499	0.146793728	0.028768219
	136	0.232344152	0.230870981	0.202790724	0.066845854	0.0532767	0.051973549	0.046337835	0.01844475
	137	0.088535565	0.087679826	0.083782824	0.08442279	0.033378501	0.032621459	0.029864042	0.030430166
	138	0.067182393	0.0663828	0.066224882	0.066845854	0.018742484	0.018035102	0.017895386	0.01844475
	139	0.27344852	0.271924843	0.177391177	0.066845854	0.061406773	0.060058917	0.041508835	0.01844475
	140	0.067024632	0.066098723	0.076036821	0.044049799	0.03392076	0.033101738	0.038179363	0.028745927
	141	0.066967132	0.066036415	0.075939808	0.044060923	0.034027806	0.033204476	0.038332318	0.028797213
	142	0.21728047	0.216608112	0.389245147	0.04404554	0.092119173	0.091524464	0.146259057	0.028737977
	143	0.21719018	0.21651722	0.389713172	0.0440594	0.092382919	0.091787608	0.146967609	0.02879746
	144	0.21724907	0.216576711	0.389238132	0.044048266	0.09212138	0.09152657	0.146258055	0.028742878

Site 5	MOVES2014a Emissions Reference	Viaduct Alternative Construction Period							
		PM ₁₀ Emission Rate (g/mi)				PM _{2.5} Emission Rate (g/mi)			
		AM	MD	PM	ON	AM	MD	PM	ON
	501	0.276810925	0.275857699	0.214822224	0.058994948	0.100135095	0.099291887	0.092197943	0.039914776
	502	0.316469438	0.315780295	0.250692198	0.062465686	0.094014303	0.093404647	0.084519499	0.035908774
	503	0.08580719	0.081691854	0.077861262	0.072953392	0.069703411	0.066062987	0.060140899	0.059299699
	504	0.04857106	0.047539948	0.050436368	0.039507473	0.031197731	0.030285548	0.028716855	0.02547092
	505	0.150020502	0.148651244	0.141585324	0.066845854	0.03715324	0.035941999	0.034431714	0.01844475
	506	0.073865268	0.073064375	0.099611555	0.066845854	0.019790526	0.019082044	0.026544769	0.01844475
	507	0.128201919	0.127342299	0.247947071	0.168815937	0.057218904	0.056458425	0.116885	0.087799067
	508	0.363764414	0.362670997	0.51598097	0.331526394	0.215321768	0.214354205	0.273073268	0.198459135

Resuspended Fine Paved Road Dust

Fugitive Dust Emission Reference	PM10							
	Road Type v/day	Emission Factor g/VMT	PM Size (maximum diameter) micrometer	k g/VMT	a	b	Avg. Vehicle Weight tons	Silt content g/m ²
1	ADT > 500	1.71	10	1.0	0.91	1.02	2.7	0.60
2	5,000 > ADT ≥ 500	0.628	10	1.0	0.91	1.02	2.7	0.20
3	10,000 ≥ ADT ≥ 5,000	0.210	10	1.0	0.91	1.02	2.7	0.06
4	ADT > 10,000	0.112	10	1.0	0.91	1.02	2.7	0.03
5	ADT > 10,000 Limited access roads	0.059	10	1.0	0.91	1.02	2.7	0.015

Location	Avg. Vehicle Weight (lbs)
NY State	5,324
NYMA	5,565
Richmond	5,085
Queens	5,119
Manhattan	5,085
Bronx	5,149
Kings	5,055
Unknown default	6,000