

APPENDIX 14

**HOUSTON-GALVESTON-BRAZORIA (HGB) 2008-EIGHT-HOUR
OZONE REASONABLE FURTHER PROGRESS (RFP) ON-ROAD
MOBILE EMISSIONS INVENTORIES**

Dallas-Fort Worth and Houston-Galveston-Brazoria Severe
Areas Reasonable Further Progress State Implementation Plan
Revision for the 2008 Eight-Hour Ozone National Ambient Air
Quality Standard

Project Number 2023-108-SIP-NR

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Houston-Galveston-Brazoria (HGB) 2008-Eight-Hour Ozone Reasonable Further Progress (RFP) On-Road Mobile Emissions Inventories

FINAL REPORT

Prepared for the Texas Commission on Environmental
Quality (TCEQ)

June 2021

Texas A&M Transportation Institute



FINAL REPORT

Grant No: 582-21-11553-022

**Task 5.2 Final Report – Houston-Galveston-Brazoria (HGB)
2008-Eight-Hour Ozone Reasonable Further Progress
(RFP) On-Road Mobile Emissions Inventories**

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EXECUTIVE SUMMARY

This report describes emissions inventory (EI) development work conducted by the Texas A&M Transportation Institute (TTI) on behalf of the Texas Commission on Environmental Quality (TCEQ). Specifically, TTI developed a set of on-road mobile source EIs for the eight-county Houston-Galveston-Brazoria (HGB) area (Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties). TTI developed ozone season, summer weekday EIs for 2011, 2017, 2018, 2020, 2023, 2026, and 2027. The project also produced individual control strategy emission reductions estimates for the 2017 and later analysis years. This work was in support of TCEQ’s HGB 2008 eight-hour ozone nonattainment area reasonable further progress (RFP) state implementation plan (SIP) revision. There were 13 RFP scenario EIs as delineated in Table 1.

Table 1. HGB RFP Inventory Scenarios.

| No. | RFP Inventory | Activity Input ¹ | Emission Rates Input ² |
|-----|------------------------|------------------------------------|-----------------------------------|
| 1 | 2011 Base Year | 2011 (Base Year) | 2011 Control Strategy |
| 2 | 2017 Pre-1990 Controls | 2017 (Milestone Year) | 2017 Pre-1990 Controls |
| 3 | 2017 Control Strategy | 2017 (Milestone Year) | 2017 Control Strategy |
| 4 | 2018 Pre-1990 Controls | 2018 (Milestone Contingency Year) | 2018 Pre-1990 Controls |
| 5 | 2018 Control Strategy | 2018 (Milestone Contingency Year) | 2018 Control Strategy |
| 6 | 2020 Pre-1990 Controls | 2020 (Milestone Year) | 2020 Pre-1990 Controls |
| 7 | 2020 Control Strategy | 2020 (Milestone Year) | 2020 Control Strategy |
| 8 | 2023 Pre-1990 Controls | 2023 (Milestone Contingency Year) | 2023 Pre-1990 Controls |
| 9 | 2023 Control Strategy | 2023 (Milestone Contingency Year) | 2023 Control Strategy |
| 10 | 2026 Pre-1990 Controls | 2026 (Attainment Year) | 2026 Pre-1990 Controls |
| 11 | 2026 Control Strategy | 2026 (Attainment Year) | 2026 Control Strategy |
| 12 | 2027 Pre-1990 Controls | 2027 (Attainment Contingency Year) | 2027 Pre-1990 Controls |
| 13 | 2027 Control Strategy | 2027 (Attainment Contingency Year) | 2027 Control Strategy |

¹ For EI calculations: vehicle miles traveled (VMT) mix, link VMT/speeds, and off-network activity.

² “Pre-1990 Controls” rates are for the calendar year of evaluation fleet but exclude post-1990 Clean Air Act Amendment (CAAA) controls – no Inspection and Maintenance (I/M) program, no post-1990 Federal Motor Vehicle Control Program (FMVCP) effects, no reformulated gasoline (RFG) (uses pre-1992 conventional gasoline with 1992 summer Reid vapor pressure [RVP] limit promulgated prior to the enactment of the 1990 CAAA), no Texas Low Emissions Diesel (TxLED). “Control Strategy” rates include effects of control strategies current for each analysis year (i.e., both pre- and post-1990 FMVCP, RFG, I/M [depending on county], TxLED fuel).

TTI developed the inventories of traffic activity and total emissions at a temporal scale of each hour of the day based on individual roadway links acquired from the HGB area travel demand model (TDM), provided by the Houston-Galveston Area Council (H-GAC). TTI estimated on-road mobile source vehicle activity and emissions for on-network (roadways) and off-network (e.g., parking areas, driveways) activity categories. As shown in Table 1, the RFP EIs include the control strategy scenario for all years and the pre-

1990 (pre-90) control scenario for all analysis years other than the base year. These two RFP scenarios enable the estimation of emissions reductions from control strategies. The following pollutants were modeled: volatile organic compounds (VOC), oxides of nitrogen (NO_x), carbon monoxide (CO), ammonia (NH₃); sulfur dioxide (SO₂), atmospheric carbon dioxide (CO₂), and particulate matter (PM) pollutants in both 2.5 and 10-micron size categories (PM_{2.5} and PM₁₀). Individual control strategy emissions reduction estimates were produced for VOC and NO_x.

TTI developed the EIs using the latest version of the MOtor Vehicle Emissions Simulator (MOVES)—MOVES3 and associated Environmental Protection Agency (EPA) guidance documentation.^{1, 2} The EIs were developed using a rates-per-activity approach, which develops and applies MOVES emission rates externally with local activity data. The inventory methods included gasoline and diesel-powered vehicle combinations modeled for on-network and off-network activity and emissions. The on-network or roadway-based activity consists of VMT and average operational speeds and off-network activity consists of off-network idling hours, source hours parked, vehicle starts, source hours extended idling, and diesel auxiliary power unit hours. The EIs were calculated using a mix of local data inputs (e.g., registration data, local TDMs, traffic count data) and MOVES defaults. The latest (readily) available data, models, and procedures were used, as well as the latest planning assumptions, to assure that motor vehicle emissions budgets to be established by TCEQ in the SIP will be consistent with transportation conformity analysis requirements.

TTI calculated the EIs using utilities developed and maintained by TTI (the TTI EI utilities, updated for use with MOVES3).³ The EI results were summarized into various formats specified for reporting and air quality planning processes as described below:

- Emissions Inventory Data Files:
 - RFP EI and individual control reductions summaries (spreadsheet file).

¹ EPA's latest March 2021 MOVES3.0.1 release was used in this analysis.

² *MOVES3 Technical Guidance: Using MOVES to Prepare Emission Inventories for State Implementation Plans and Transportation Conformity*, EPA, November 2020.

³ TTI's MOVES2014a-compatible inventory estimation utilities are detailed in: *TTI Emissions Inventory Estimation Utilities Using MOVES: MOVES2014aUTL User's Guide*, TTI, August 2016. Note that the TTI utilities have been updated for use with MOVES3, however, the main inventory process and procedures are consistent with TTI's MOVES2014a-based utilities, and its user guide is provided for reference until the TTI's MOVES3 utilities document is available.

- EI output files – standard tab-delimited, hourly, and 24-hour report summaries of EIs by MOVES source use type (SUT) and fuel type (FT) combination (or vehicle type) and TDM roadway class.
- EI extracts – various tab-delimited EI aggregations from the TTI EI utilities standard output.
- Extensible markup language (XML)-formatted EI summaries – for uploading to TCEQ’s Texas Air Emissions Repository (TexAER).
- Emissions Factor Data Files:
 - MOVES model input data, build and run files, as well as post-processing adjustment factors.

Table 2, Table 3, and Table 4 summarize the pollutant totals EI estimates and individual control strategy reduction estimates for the HGB eight-county area. Table 2 regional EI pollutant totals are for VOC, NO_x, CO, NH₃, SO₂, CO₂, PM_{2.5}, and PM₁₀. The PM estimates in are the aggregates of exhaust, brakewear, and tirewear processes; VOC includes exhaust and evaporative emission processes. Table 3 and Table 4 summarize control strategy reduction estimates for VOC and NO_x, respectively.

Table 2. HGB Eight-County Area Summer Weekday On-Road Mobile Source RFP Emissions Inventories (Tons).

Base Year¹

| Year | VMT | Speed | VOC | CO | NO _x | SO ₂ | NH ₃ | CO ₂ | PM _{2.5} | PM ₁₀ |
|------|-------------|-------|-------|----------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| 2011 | 145,516,066 | 30.32 | 84.12 | 1,244.41 | 179.34 | 1.52 | 5.86 | 89,915.60 | 6.44 | 14.82 |

Pre-1990 Controls²

| Year | VMT | Speed | VOC | CO | NO _x | SO ₂ | NH ₃ | CO ₂ | PM _{2.5} | PM ₁₀ |
|------|-------------|-------|--------|-----------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| 2017 | 173,533,549 | 34.63 | 619.10 | 8,950.79 | 1,047.74 | 48.76 | 19.82 | 98,733.37 | 20.97 | 30.57 |
| 2018 | 178,967,556 | 37.72 | 609.63 | 8,785.97 | 1,081.45 | 50.77 | 20.59 | 100,247.06 | 21.44 | 30.38 |
| 2020 | 187,942,688 | 37.56 | 641.98 | 9,232.64 | 1,138.21 | 53.52 | 21.63 | 105,494.76 | 22.64 | 32.10 |
| 2023 | 199,141,361 | 37.49 | 680.43 | 9,772.96 | 1,205.41 | 56.90 | 22.96 | 111,792.68 | 24.01 | 34.05 |
| 2026 | 208,706,310 | 37.19 | 716.68 | 10,288.79 | 1,264.15 | 59.69 | 24.05 | 117,411.78 | 25.22 | 35.87 |
| 2027 | 211,938,550 | 37.07 | 729.07 | 10,465.46 | 1,284.15 | 60.65 | 24.42 | 119,335.62 | 25.65 | 36.51 |

Control Strategy³

| Year | VMT | Speed | VOC | CO | NO _x | SO ₂ | NH ₃ | CO ₂ | PM _{2.5} | PM ₁₀ |
|------|-------------|-------|-------|--------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| 2017 | 173,533,549 | 34.63 | 48.53 | 913.01 | 99.11 | 1.08 | 5.01 | 96,167.69 | 3.95 | 11.85 |
| 2018 | 178,967,556 | 37.72 | 45.03 | 861.23 | 92.17 | 1.12 | 4.99 | 95,767.64 | 3.60 | 10.77 |
| 2020 | 187,942,688 | 37.56 | 39.14 | 812.98 | 74.87 | 0.58 | 4.91 | 96,275.67 | 3.01 | 10.53 |
| 2023 | 199,141,361 | 37.49 | 33.85 | 724.71 | 59.45 | 0.57 | 4.97 | 94,947.26 | 2.62 | 10.58 |
| 2026 | 208,706,310 | 37.19 | 28.98 | 643.75 | 49.08 | 0.55 | 5.06 | 92,682.63 | 2.43 | 10.87 |
| 2027 | 211,938,550 | 37.07 | 27.98 | 621.01 | 47.31 | 0.55 | 5.11 | 92,046.58 | 2.40 | 11.01 |

¹ Base year inventory: 2011 activity inputs and 2011 current control strategy emission rates.

² Pre-1990 controls inventories: analysis year activity inputs and analysis year pre-1990 controls emission rates. Rates are for analysis year fleet but exclude post-1990 CAAA controls – no I/M program, no post-1990 FMVCP effects, no RFG (instead uses pre-1992 conventional gasoline with 1992 summer RVP limit promulgated prior to the enactment of the 1990 CAAA), and no TxLED.

³ Control strategy inventories: analysis year activity inputs and analysis year control strategy emission rates. Rates include effects of control strategies for analysis year (i.e., both pre- and post-1990 FMVCP, Tier 3 RFG and Ultra Low Sulfur Diesel (ULSD), I/M [depending on county], and TxLED).

Table 3. HGB Eight-County Area Summer Weekday RFP Control Scenario Inventories and VOC Reductions (Tons) by Analysis Year.

| VOC Emissions Analysis | 2011 | 2017 | 2018 | 2020 | 2023 | 2026 | 2027 |
|---|-------|--------|--------|--------|--------|--------|--------|
| Pre-1990 Controls Inventory | - | 619.10 | 609.63 | 641.98 | 680.43 | 716.68 | 729.07 |
| Control Strategy Inventory | 84.12 | 48.53 | 45.03 | 39.14 | 33.85 | 28.98 | 27.98 |
| Total Reductions | - | 570.56 | 564.60 | 602.84 | 646.58 | 687.70 | 701.09 |
| FMVCP Reductions | - | 554.73 | 550.59 | 589.50 | 635.40 | 677.98 | 691.79 |
| Tier 3 RFG and ULSD ¹ Reductions | - | 10.81 | 9.34 | 9.01 | 7.04 | 5.65 | 5.22 |
| I/M Reductions | - | 5.02 | 4.66 | 4.34 | 4.13 | 4.08 | 4.08 |
| TxLED Reductions | - | - | - | - | - | - | - |

¹ RFG with Tier 3 sulfur and pre-1990 diesel replaced with ULSD.

Notes: Columns may not total due to rounding, and "-" = "not applicable".

Table 4. HGB Eight-County Area Summer Weekday RFP Control Scenario Inventories and NO_x Reductions (Tons) by Analysis Year.

| NO _x Emissions Analysis | 2011 | 2017 | 2018 | 2020 | 2023 | 2026 | 2027 |
|---|--------|----------|----------|----------|----------|----------|----------|
| Pre-1990 Controls Inventory | - | 1,047.74 | 1,081.45 | 1,138.21 | 1,205.41 | 1,264.15 | 1,284.15 |
| Control Strategy Inventory | 179.34 | 99.11 | 92.17 | 74.87 | 59.45 | 49.08 | 47.31 |
| Total Reductions | - | 948.63 | 989.28 | 1,063.33 | 1,145.96 | 1,215.07 | 1,236.83 |
| FMVCP Reductions | - | 907.99 | 953.12 | 1,030.35 | 1,122.54 | 1,197.68 | 1,220.91 |
| Tier 3 RFG and ULSD ¹ Reductions | - | 32.30 | 28.80 | 27.55 | 19.48 | 14.18 | 12.86 |
| I/M Reductions | - | 5.37 | 4.52 | 2.90 | 1.84 | 1.36 | 1.25 |
| TxLED Reductions | - | 2.97 | 2.84 | 2.53 | 2.10 | 1.85 | 1.81 |

¹ RFG with Tier 3 sulfur and pre-1990 diesel replaced with ULSD.

Notes: Columns may not total due to rounding, and "-" = "not applicable".

1.0 INTRODUCTION

The Texas Commission on Environmental Quality (TCEQ) works with local planning districts, the Texas Department of Transportation (TxDOT), and the Texas A&M Transportation Institute (TTI) to provide on-road, mobile source emissions inventories of air pollutants. TCEQ typically funds mobile source inventory work in support of the federal Clean Air Act Amendment (CAAA).

Accurate emissions inventories (EIs) are critical if state, local, and federal agencies are to attain, and maintain, the National Ambient Air Quality Standards (NAAQS) that the U.S. Environmental Protection Agency (EPA) has established for criteria pollutants such as ozone, particulate matter (PM), and carbon monoxide (CO), as well as to control hazardous air pollutant (HAP) emissions.

This report describes work conducted by TTI on behalf of TCEQ. The work involves the calculation of EIs for the Houston-Galveston-Brazoria (HGB) area's eight ozone nonattainment counties of Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller. Ozone season, summer weekday EIs were developed for 2011, 2017, 2018, 2020, 2023, 2026, and 2027, along with emissions reductions from individual control strategies estimated for the 2017 and later analysis years.

The EIs and control strategy reduction estimates have been commissioned to be used for air quality planning by TCEQ. Specifically, this work was in support of TCEQ's plans to update the state implementation plan (SIP) which will require a reasonable further progress (RFP) analysis from the base year to the attainment year to demonstrate continued progress toward attainment of the EPA's 2008 eight-hour ozone standard for the HGB eight-county nonattainment area. The HGB RFP EIs were developed using the latest version of EPA's Motor Vehicle Emissions Simulator (MOVES) and the latest planning assumptions to assure the motor vehicle emissions budgets set by the SIP revision will be consistent with transportation conformity analysis requirements.

1.1 OBJECTIVE

The purpose of this document is to describe the methods and data used to develop on-road mobile source, ozone season, summer weekday RFP EIs and control strategy reductions for the HGB region. The RFP EIs were required for the base year (2011), RFP milestone years (2017 and 2020), milestone contingency years (2018 and 2023), attainment year (2026), and an attainment contingency year (2027). Individual control measure reduction estimates were required for the milestone years and attainment year,

and contingency measure control reduction estimates were required for the milestone and attainment contingency years.

The pollutants inventoried were volatile organic compounds (VOC), oxides of nitrogen (NO_x), carbon monoxide (CO), ammonia (NH₃); sulfur dioxide (SO₂), atmospheric carbon dioxide (CO₂), and particulate matter (PM) pollutants in both 2.5 and 10-micron size categories (PM_{2.5} and PM₁₀). Individual control strategy emissions reduction estimates were produced for VOC and NO_x. The EIs were estimated based on on-network and off-network traffic activity. On-network activity includes vehicle miles traveled on regional roadways. Off-network activity includes traffic activity such as vehicle starts, off-network idling (ONI), source hours parked, and long-haul truck hotelling.

The methods used to calculate the EIs are an extension of historically consistent traffic activity and emission rate methods developed by TTI. The HGB area is served by a Travel Demand Model (TDM) administered by the Houston-Galveston Area Council (H-GAC). As such, the EI calculations described in this document are based on an hourly, link-level analysis that uses the outputs of the regional TDM, other local data sources consistent with the region (e.g., seasonal day type and hourly travel factors; vehicle population data; and environmental inputs), and MOVES default inputs. This report details all the data sources used to define the EIs developed for this project.

At the request of TCEQ, the EIs were developed using the latest version of the EPA's on-road emissions inventory software—MOVES3. MOVES3 was released in November 2020 (and updated in March 2021) to replace the MOVES2014b version of the software. The EI methods described in this document have been developed to incorporate the latest information on on-road mobile source emissions and methods outlined in the associated EPA guidance for conducting MOVES3 based EIs.

In addition to calculating EIs and control strategy reductions, this project involves the development of electronic deliverables that were post-processed from the EI results into formats suitable for reporting and air quality planning. These outputs include:

- Emissions inventory data files:
 - RFP EI and individual control reductions summaries (spreadsheet file).
 - EI output files – standard tab-delimited, hourly and 24-hour EI summaries by county, MOVES source use type (SUT) and fuel type (FT) combination (or vehicle type), and TDM roadway class.
 - EI extracts – various tab-delimited EI aggregations from the TTI EI utilities standard output.

- Extensible markup language (XML)-formatted EI summaries – for uploading to TCEQ’s Texas Air Emissions Repository (TexAER).
- Emissions factor data files:
 - MOVES model input data, build and run files, as well as post-processing adjustment factors.

1.2 SUMMARY OF MODELING METHODOLOGY

Each EI was calculated using a detailed MOVES rates-per-activity method based on the HGB regional TDM. This approach calculates on-network emissions at the scale of each link defined by the regional TDM outputs.

The TTI rates-activity estimation methods were performed in four basic steps, simplified below:

1. **Calculate Emission Rates:** MOVES3 was used to estimate regional emission rates (or factors) relevant to the analysis area and RFP scenario. The rates were calculated based on local inputs to MOVES such as temperature and humidity, fuel formulations, etc. These emission rates were post-processed into the input form specific to RFP scenarios and required by the utility for the emissions calculations (to include conversions, adjustments, and reformatting).
2. **Estimate Traffic Activity:** The local TDM data sets (designated for each analysis year) were processed to derive 24 hourly vehicle miles traveled (VMT) and speed estimates for all TDM links as well as for added intrazonal links. Further processing was done to convert VMT based on Highway Performance Monitoring System (HPMS) factors and seasonal and daily adjustment factors. Local automatic traffic recorder (ATR) traffic count data was used to process the TDM activity information. After the on-network activity was estimated, off-network activity was calculated using outputs from the processed travel model, vehicle population data, and MOVES default inputs. The traffic activity was processed to replicate operating conditions described by the summer weekday EI scenario.
3. **Calculate Total Emissions:** The emission rates calculated in Step 1 were multiplied by the on- and off-network activity calculated in Step 2. This yielded emissions estimates in units of mass calculated at a spatial scale of each link (on-network) or county (off-network) for each hour of the day.

4. **Postprocess EI Outputs:** Outputs (for each pollutant) were post-processed into a variety of formats and electronic deliverables for reporting purposes and for air quality planning.

Subsequent sections of this report describe these simplified steps in more detail.

1.3 EMISSIONS INVENTORY AND CONTROL STRATEGY REDUCTIONS SCOPE

The following is a simplified view of the scope (entities modeled and data inputs) agreed upon with the TCEQ project manager. The scope for the EIs is outlined first followed by the scope for estimation of the control strategy reductions.

1.3.1 RFP Emissions Inventories

For consistency with EPA EI development guidance, TTI used the most recent activity information, based upon current travel demand modeling; the most recent version of the EPA's on-road emissions model, MOVES3⁴; and methods agreed upon with the TCEQ Project Manager and consistent with EPA's RFP guidance.

Geography, Time Period, and Day Type:

- Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties.
- Analysis years 2011, 2017, 2018, 2020, 2023, 2026, and 2027.
- Summer season of June through August.
- Weekday activity (average Monday through Friday).

Two RFP Control Scenarios:

- EIs with pre-1990 controls only.
- EIs with pre- and post-1990 controls strategies.

Table 5 lists the RFP inventories with activity and emission rate components which when combined produce the 13 required RFP EIs.

⁴ MOVES3.0.1 (EPA, March 2021), the latest version of MOVES3 at the time of the analysis, was used.

Table 5. HGB RFP Inventory Scenarios.

| No. | RFP Inventory | Activity Input ¹ | Emission Rates Input ² |
|-----|------------------------|------------------------------------|-----------------------------------|
| 1 | 2011 Base Year | 2011 (Base Year) | 2011 Control Strategy |
| 2 | 2017 Pre-1990 Controls | 2017 (Milestone Year) | 2017 Pre-1990 Controls |
| 3 | 2017 Control Strategy | 2017 (Milestone Year) | 2017 Control Strategy |
| 4 | 2018 Pre-1990 Controls | 2018 (Milestone Contingency Year) | 2018 Pre-1990 Controls |
| 5 | 2018 Control Strategy | 2018 (Milestone Contingency Year) | 2018 Control Strategy |
| 6 | 2020 Pre-1990 Controls | 2020 (Milestone Year) | 2020 Pre-1990 Controls |
| 7 | 2020 Control Strategy | 2020 (Milestone Year) | 2020 Control Strategy |
| 8 | 2023 Pre-1990 Controls | 2023 (Milestone Contingency Year) | 2023 Pre-1990 Controls |
| 9 | 2023 Control Strategy | 2023 (Milestone Contingency Year) | 2023 Control Strategy |
| 10 | 2026 Pre-1990 Controls | 2026 (Attainment Year) | 2026 Pre-1990 Controls |
| 11 | 2026 Control Strategy | 2026 (Attainment Year) | 2026 Control Strategy |
| 12 | 2027 Pre-1990 Controls | 2027 (Attainment Contingency Year) | 2027 Pre-1990 Controls |
| 13 | 2027 Control Strategy | 2027 (Attainment Contingency Year) | 2027 Control Strategy |

¹ For external inventory calculations: vehicle miles traveled (VMT) mix, link VMT/speeds, and off-network activity.

² "Pre-1990 Controls" rates are for the calendar year of evaluation fleet but exclude post-1990 Clean Air Act Amendment (CAAA) controls – no Inspection and Maintenance (I/M) program, no post-1990 Federal Motor Vehicle Control Program (FMVCP) effects, no reformulated gasoline (RFG) (uses pre-1992 conventional gasoline with 1992 summer Reid vapor pressure [RVP] limit promulgated prior to the enactment of the 1990 CAAA), no Texas Low Emissions Diesel (TxLED). "Control Strategy" rates include effects of control strategies current for subject analysis year (i.e., both pre- and post-1990 FMVCP, RFG, I/M [depending on county], TxLED fuel).

Source Use Types, Activity Types, and Emissions Processes:

- *Source use and fuel types (the various combinations of these are referred to as vehicle types) modeled:* See Table 6.
- *Traffic activity modeled:* VMT, vehicle starts, hotelling hours (classified by auxiliary power unit [APU], engine on, engine off), source hours parked, off-network idling.
- *Vehicle-based emissions processes modeled:* running exhaust; crankcase running exhaust; start exhaust; crankcase start exhaust; extended idle exhaust; crankcase extended idle exhaust; auxiliary power exhaust; evaporative permeation; evaporative fuel vapor venting; evaporative liquid leaks; brakewear; tirewear.
- *Refueling emissions processes modeled:* not applicable.

Table 6. MOVES SUT/Fuel Types (Vehicle Types).

| SUT ID | SUT Description | SUT Abbreviation ¹ | Fuel Types |
|--------|------------------------------|-------------------------------|------------------|
| 11 | Motorcycle | MC | Gasoline |
| 21 | Passenger Car | PC | Gasoline, Diesel |
| 31 | Passenger Truck | PT | Gasoline, Diesel |
| 32 | Light Commercial Truck | LCT | Gasoline, Diesel |
| 41 | Other Buses | OBus | Gasoline, Diesel |
| 42 | Transit Bus | TBus | Gasoline, Diesel |
| 43 | School Bus | SBus | Gasoline, Diesel |
| 51 | Refuse Truck | RT | Gasoline, Diesel |
| 52 | Single Unit Short-Haul Truck | SUSHT | Gasoline, Diesel |
| 53 | Single Unit Long-Haul Truck | SULHT | Gasoline, Diesel |
| 54 | Motor Home | MH | Gasoline, Diesel |
| 61 | Combination Short-Haul Truck | CShT | Gasoline, Diesel |
| 62 | Combination Long-Haul Truck | CLhT | Diesel |

¹ The SUT/fuel type, or vehicle type, labels are the combined SUT abbreviation and fuel type names separated by an underscore (e.g., MC_Gas, RT_Diesel, and SBus_Gas are gasoline-powered motorcycles, diesel-powered refuse trucks, and gasoline-powered school buses, respectively).

Pollutants Modeled:

- VOC; CO; NO_x; NH₃; SO₂; primary PM₁₀ - exhaust, brakewear, and tirewear; primary PM_{2.5} - exhaust, brakewear, and tirewear; and atmospheric CO₂.

Emission Rate (MOVES) Input Data and Adjustments:

- *Emission rates:* EPA's latest Mobile Source Emission Rate Model – MOVES3.0.1 (herein abbreviated to MOVES). This latest version of the model was released in March 2021 and downloaded from the following link: <https://www.epa.gov/moves/latest-versionmotor-vehicle-emission-simulator-moves>.
- *Local environmental input data:* 2011 climate inputs (temperature, humidity, barometric pressure) provided by TCEQ.
- *Local age distributions:* County registration data for locality-specific age distributions input. The latest available registration data (2018 end-of-year [no mid-year available]) was used for historical years (no other local registration data was available) and for the future analysis years.
- *Control program parameters:* RVP and fuel settings, for example, based upon the EI type as defined by the RFP analysis control scenarios.
- *Local fuel formulation input data:*
 - Consistent with Code of Federal Regulations (CFR) Title 40 – Protection of the Environment, Part 80 – Regulation of Fuels and Fuel Additives, Section 27 –

- Controls and Prohibitions on Gasoline Volatility (40 CFR § 80.27), as appropriate for RFP control scenarios.
- HGB reformulated gasoline program as appropriate for RFP control scenarios.
 - Federally regulated gasoline and diesel sulfur levels or latest available fuel survey data for RFP control scenarios.
 - EPA's reformulated gasoline compliance data and the TCEQ fuel property survey data, including RVP, to develop model inputs. TCEQ provided the 2011, 2017, and 2020 Summer Fuel Field Study Final Report and associated electronic files.
- *Inspection and maintenance program information:* The I/M program currently in place for Brazoria, Fort Bend, Galveston, Harris, and Montgomery Counties, as appropriate for RFP control scenarios.
 - *Federal motor vehicle control programs:* The effects of all the federal motor vehicle control programs that are included as default inputs in MOVES, consistent with RFP control scenarios.
 - *Texas Low Emission Diesel:* Post-processed the diesel vehicle NO_x emission factors to account for the TxLED program, consistent with 30 Texas Administrative Code (TAC) Sections 114.312-114.319, for RFP control scenarios as appropriate. Used year-specific TxLED adjustment factors developed using the benefit information described in the EPA Memorandum "Texas Low Emission Diesel Fuel Benefits," and the method as documented in previous Texas on-road emissions inventory development reports.

Traffic Activity Input Data:

- *Traffic activity:* The latest available link data, trips data, and zonal radii data sets extracted from the H-GAC 2011, 2017, 2018, 2020, 2023, 2026, and 2027 TDMs were used. TDM link VMT for the historical analysis years was scaled for consistency with analysis year, seasonally adjusted (summer weekday), HPMS-based, county VMT control totals.
- *Traffic patterns:* TxDOT traffic count data from the area (multiple years through latest available 2019) was used to derive seasonal, day type, and hour of day traffic patterns.
- *HPMS consistency adjustment factor:* HPMS data and validation year TDM data.
- *Base hotelling hours data:* TTI's 2017 hotelling study.⁵
- *Hotelling mode distributions:* MOVES default.

⁵ Heavy-Duty Vehicle Idle Activity Study Final Report, prepared by TTI for TCEQ, July 2019.

- *Vehicle starts*: Number of weekday starts per vehicle from MOVES (based on a combination of MOVES default and local data) and local vehicle type population estimates.
- *Vehicle population data*: End of year 2018 vehicle registrations and age class data classified by source use and fuel type provided by Texas Department of Motor Vehicles (TxDMV), scaled to estimate analysis year values using county VMT ratios.
- *Off-network idling*: MOVES default total idle fractions and road idle fractions in combination with local roadway network activity estimates (VMT and speeds).
- *Local fleet mix data*:
 - TxDOT traffic classification data.
 - TxDMV vehicle registrations data.
 - Classified by gasoline- and diesel-powered MOVES source use types.

Emissions inventory Outputs:

The following output files were produced by county in formats required by TCEQ:

- Emissions inventory data files:
 - RFP EI and individual control reductions summaries (spreadsheet file).
 - EI output files – standard tab-delimited, hourly and 24-hour EI summaries by county, MOVES SUT and fuel type combination (or vehicle type), and TDM roadway class.
 - EI extracts – various tab-delimited EI aggregations from the TTI EI utilities standard output.
 - XML-formatted EI summaries – for uploading to TCEQ’s TexAER.
- Emissions factor data files:
 - MOVES model input data, build and run files, as well as post-processing adjustment factors (i.e., input data, structured query language [SQL] scripts to load the data into MOVES county input databases [CDBs], CDBs, MOVES run specification [MRS] files, and TxLED NO_x adjustment factors).

1.3.2 RFP Control Reductions

To complete this part of the work, TTI developed emissions reduction estimates for each on-road mobile source control strategy for the 2017, 2018, 2020, 2023, 2026, and 2027 HGB RFP analysis years. The entire MOVES-based control strategy reduction was

subdivided into individual control reductions using a MOVES-based methodology submitted to and approved by the TCEQ Project Manager.

TTI ensured the methods were consistent with the standard Texas on-road mobile source control strategy quantification methods, the EPA's RFP guidance, and TxLED NO_x reductions estimation guidance. Other than for TxLED, the applicable methodology included applying successive individual controls—specifically the FMVCP, fuels, and I/M control strategies—and rerunning the MOVES model to obtain information to individually quantify emissions reductions for each control program/technology. TTI post-processed the emissions reductions for TxLED using methods consistent with TxLED effects estimation guidance. Since MOVES does not separate the reductions from the individual components of the FMVCP such as Tier 1, Tier 2, Tier 3, and the 2007 heavy-duty diesel vehicle certification standard, the effects of FMVCP were calculated as one control reduction.

For the HGB RFP control reduction estimates to be consistent with the requirements for RFP EI analyses, TTI developed the emissions reduction estimates using the same version of the EPA's MOVES model, MOVES3.0.1, and methods and inputs consistent with the RFP EI analyses described in Section 1.3.1.

1.4 REPORT STRUCTURE

This report is further divided into the following sections:

- Section 2 details the data and calculations used to calculate regional on-network and off-network traffic activity.
- Section 3 details the calculation of emission rates via MOVES and subsequent rates modifications.
- Section 4 details the methods used to calculate regional emissions.
- Section 5 completes the narrative with a discussion of quality assurance and quality control.
- The list of references is followed by the set of appendices to complete the report.

2.0 ESTIMATING TRAFFIC ACTIVITY

On-network and off-network activity are required to estimate mobile source emissions. TTI uses a method that calculates on-network emissions using VMT by hour and direction for each link in a TDM. Off-network emissions are calculated using county-level, hourly estimates of activity, including ONI hours, source hours parked (SHP), starts, source hours extended idling (SHEI), and APU hours. Both on- and off-network activity (and emissions) are divided into the various vehicle type components. This section describes the methods used to develop on- and off-network activity.

2.1 VEHICLE MILES OF TRAVEL

The hourly, link-based EI development process requires VMT estimates by hour and direction for each link in the TDM. VMT is adjusted for HPMS consistency and to reflect estimated traffic activity patterns characteristic of a typical seasonal day type scenario (i.e., analysis year summer weekday). Operational (congested) link speed estimates corresponding to these traffic conditions are also required. All calculations were conducted using a suite of EI utilities developed by TTI (see Appendix A).

2.1.1 Data Sources

Directional link VMT and speeds were calculated using the latest available link data, trips data, and zonal radii data sets extracted from the HGB 2011, 2017, 2018, 2020, 2023, 2026, and 2027 TDMs.⁶ Since intrazonal VMT are not accounted for in the TDMs, the intrazonal VMT was estimated using the TDM trip matrix and zonal radii data.

Several other data sources were used to adjust the VMT for HPMS consistency and to estimate the season and day type-specific VMT. HPMS VMT estimates⁷ were used to adjust the total TDM-based VMT. Seasonal day type factors derived from local ATR data were used to translate the traffic activity scenario represented by the TDM to those defined by the EI scenario. These seasonal day type factors were estimated using ATR data collected from 2010 through 2019. Depending on the application, the data were either combined from the ATR stations within the eight-county region for use with all

⁶ The 2011 and 2017 TDMs were existing datasets provided previously by H-GAC to TTI for emissions inventory analyses, whereas the 2018, 2020, 2023, 2026, and 2027 TDM data sets were newly provided by H-GAC (spring 2021) for this analysis. All TDM datasets used were the latest available.

⁷ HPMS VMT estimates are based on traffic count data collected according to a statistical sampling procedure specified by the Federal Highway Administration (FHWA). The EPA and FHWA have endorsed HPMS as the appropriate source of VMT and require that VMT used to construct on-road mobile source emissions estimates be consistent with that reported through HPMS.

counties, or from within the Beaumont TxDOT District for use with Chambers and Liberty counties, and from within the Houston TxDOT District for use with Harris, Galveston, Fort Bend, Brazoria, Montgomery, and Waller counties.

2.1.2 Travel Model VMT Adjustments

The following sections describe the steps TTI used to transform TDM-based VMT estimates for each analysis year to the summer weekday hourly VMT estimates required for the emissions analysis.

The TDM VMT was adjusted for HPMS consistency and to represent the summer weekday. For 2011, 2017, and 2018, which by definition are historical years (i.e., HPMS VMT data exists for these years), county-level VMT control totals were used to develop VMT adjustment factors. For 2020, 2023, 2026, and 2027, which are future years (i.e., HPMS VMT data does not yet exist for these years), a regional HPMS factor and summer weekday factors were used. Hourly travel factors were also applied to distribute the link VMT estimates over each hour of each day.

2.1.2.1 Historical Years – VMT Control Totals and VMT Adjustments

To estimate the HPMS-consistent summer weekday VMT for the 2011, 2017, and 2018 historical year scenarios, county-level summer weekday VMT control totals were used to develop VMT adjustment factors for each county and year. The VMT control totals are comprised of two key components: the analysis year county-level HPMS annual average daily traffic (AADT) VMT and the AADT-to-summer weekday adjustment factor.

The AADT-to-summer weekday adjustment factors were developed for each county using aggregated ATR data for the years 2010 through 2019. Since the HGB area spans two TxDOT districts, two summer weekday adjustment factors were developed, one for the counties in the Beaumont TxDOT District, and one for the counties in Houston TxDOT District. These factors were calculated by dividing the average June through August Monday through Friday count by the AADT count. Table 7 shows the HGB district AADT-to-summer weekday factors used in developing the VMT control totals.

Table 7. HGB AADT-to-Summer Weekday Adjustment Factors.

| TxDOT District | Weekday Adjustment Factor |
|----------------|---------------------------|
| Beaumont | 1.03336 |
| Houston | 1.07307 |

¹ Only used for Chambers and Liberty counties.

² Only used for Harris, Galveston, Fort Bend, Brazoria, Montgomery, and Waller counties.

The VMT control totals were calculated by multiplying the analysis year HPMS AADT VMT for each county by the summer weekday adjustment factors. To develop the county-level VMT adjustment factors, the county's control totals were then divided by the county total VMT (TDM assignment VMT plus intrazonal VMT estimate) from the TDM designated for the analysis year. For each link in the TDM, the volume was multiplied by the corresponding VMT adjustment factor (based on the county where the link was located). The adjusted link volumes were then multiplied by the associated link lengths to produce the analysis year link-level HPMS consistent, summer weekday VMT estimates. This same adjustment was applied to the intrazonal VMT.

2.1.2.2 Future Years – HPMS Adjustment Factor

For the future years, an HPMS adjustment factor was used to adjust the total VMT (TDM assignment VMT plus intrazonal VMT estimate) from each TDM for HPMS consistency. While TTI typically calculates this factor, the HPMS factor used in this analysis (0.938371) was provided directly by H-GAC.

2.1.2.3 Future Years – Summer Weekday Adjustment Factors

Seasonal adjustment factors were used to adjust the future year TDM link and estimated intrazonal VMT to reflect the summer weekday. These adjustment factors were developed using aggregated ATR data for the years 2010 through 2019. Since the HGB area spans two TxDOT districts, two summer weekday adjustment factors were developed. These factors were calculated using local ATR data by dividing the average day-of-week traffic volumes by the average non-summer weekday traffic (ANSWT) volumes. Table 8 shows the seasonal adjustment factors by TxDOT district.

Table 8. HGB ANSWT-to-Summer Weekday Adjustment Factors.

| TxDOT District | Weekday Seasonal Adjustment Factor |
|----------------|------------------------------------|
| Beaumont | 0.98644 |
| Houston | 1.01341 |

2.1.3 Summer Weekday VMT Summaries

The final HPMS-consistent, VMT is comprised of two parts: the link-level VMT and the estimated intrazonal VMT. For the historical years (2011, 2017, and 2018), the volume for each link was multiplied by the county summer weekday VMT control total-based VMT factor corresponding to the link's county code and by the link's respective length to

estimate the link-level summer weekday VMT. For the future years (2020, 2023, 2026, and 2027), the volume on each link was multiplied by the HPMS factor, the summer weekday adjustment factor, and the link's respective length to estimate the link-level summer weekday VMT. These sets of factors were also applied to the associated intrazonal VMT estimates. Table 9 shows the TDM and summer weekday VMT summaries.

Table 9. HGB Summer Weekday County VMT Summaries.

| County | 2011 | 2017 | 2018 | 2020 | 2023 | 2026 | 2027 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Brazoria | 6,162,491 | 8,789,421 | 9,067,168 | 9,505,035 | 9,946,487 | 10,603,845 | 10,758,504 |
| Chambers | 2,658,258 | 2,884,385 | 2,917,999 | 3,200,135 | 3,372,234 | 3,416,170 | 3,423,817 |
| Fort Bend | 10,125,152 | 13,088,380 | 13,913,127 | 15,936,044 | 17,720,105 | 19,246,957 | 19,730,806 |
| Galveston | 5,869,213 | 7,308,748 | 7,420,160 | 7,480,017 | 7,779,087 | 8,041,908 | 8,101,603 |
| Harris | 104,092,920 | 121,284,329 | 124,745,752 | 129,119,047 | 135,949,243 | 141,713,687 | 143,750,372 |
| Liberty | 2,253,804 | 2,396,281 | 2,446,129 | 3,093,346 | 3,252,779 | 3,355,538 | 3,382,329 |
| Montgomery | 12,272,514 | 15,274,852 | 15,891,927 | 16,843,097 | 18,104,578 | 19,144,967 | 19,536,904 |
| Waller | 2,081,878 | 2,507,354 | 2,565,514 | 2,766,182 | 3,017,082 | 3,183,487 | 3,254,457 |

2.1.4 Hourly Travel Factors

Hourly travel factors were used to distribute the TDM and intrazonal VMT to each hour of the day. These hourly travel factors were developed using the multi-year (2010 through 2019) aggregated ATR station data for the eight-county HGB region. To maintain VMT proportions within each of the four assignment time periods, the hourly fractions were normalized within each time period to produce the time period hourly travel factors. Each factor (i.e., 24, or one for each hour of the day) was then multiplied by the link volume (in addition to the other VMT adjustment factors). These adjusted link volumes were then multiplied by their respective link lengths to estimate the link level, summer weekday VMT. These factors were also multiplied by the estimated intrazonal VMT to produce the final hourly, summer weekday VMT. Table 10 shows the summer weekday time period hourly travel factors.

Table 10. Summer Weekday Time Period Hourly Travel Factors.

| Assignment | Hour | Base Factor | Time Period Factor ¹ |
|------------|--------------------------|-------------|---------------------------------|
| AM Peak | 6:00 a.m. to 7:00 a.m. | 0.062469 | 0.334676 |
| AM Peak | 7:00 a.m. to 8:00 a.m. | 0.066920 | 0.358522 |
| AM Peak | 8:00 a.m. to 9:00 a.m. | 0.057266 | 0.306801 |
| Mid-Day | 9:00 a.m. to 10:00 a.m. | 0.051661 | 0.161257 |
| Mid-Day | 10:00 a.m. to 11:00 a.m. | 0.050387 | 0.157280 |
| Mid-Day | 11:00 a.m. to 12:00 p.m. | 0.052108 | 0.162652 |
| Mid-Day | 12:00 p.m. to 1:00 p.m. | 0.053986 | 0.168515 |
| Mid-Day | 1:00 p.m. to 2:00 p.m. | 0.054713 | 0.170784 |
| Mid-Day | 2:00 p.m. to 3:00 p.m. | 0.057509 | 0.179511 |
| PM Peak | 3:00 p.m. to 4:00 p.m. | 0.062908 | 0.241973 |
| PM Peak | 4:00 p.m. to 5:00 p.m. | 0.067456 | 0.259467 |
| PM Peak | 5:00 p.m. to 6:00 p.m. | 0.070399 | 0.270787 |
| PM Peak | 6:00 p.m. to 7:00 p.m. | 0.059216 | 0.227772 |
| Overnight | 7:00 p.m. to 8:00 p.m. | 0.046370 | 0.046370 |
| Overnight | 8:00 p.m. to 9:00 p.m. | 0.036011 | 0.036011 |
| Overnight | 9:00 p.m. to 10:00 p.m. | 0.031184 | 0.031184 |
| Overnight | 10:00 p.m. to 11:00 p.m. | 0.024436 | 0.024436 |
| Overnight | 11:00 p.m. to 12:00 a.m. | 0.016584 | 0.016584 |
| Overnight | 12:00 a.m. to 1:00 a.m. | 0.009164 | 0.009164 |
| Overnight | 1:00 a.m. to 2:00 a.m. | 0.006058 | 0.006058 |
| Overnight | 2:00 a.m. to 3:00 a.m. | 0.005639 | 0.005639 |
| Overnight | 3:00 a.m. to 4:00 a.m. | 0.006211 | 0.006211 |
| Overnight | 4:00 a.m. to 5:00 a.m. | 0.013328 | 0.013328 |
| Overnight | 5:00 a.m. to 6:00 a.m. | 0.038017 | 0.038017 |

¹ Used in the hourly VMT calculation process.

2.1.5 Link Speeds

The operational speeds for each link, excluding centroid connectors and the special intrazonal links, were calculated using the Houston speed model. The Houston speed model calculates these speeds using the travel model speed, speed factors (consisting of a free-flow speed factor and level of service [LOS] E speed factor), and a volume-to-capacity (V/C) ratio-based speed reduction factor (SRF) for each link.

The speed factors were used to convert the link-level travel model (input) speed to a free-flow speed and an LOS E speed (i.e., application of these factors results in two speeds). The free-flow speed factors (grouped by functional class and area type) were calculated by dividing the distance-weighted free-flow speed by the distance-weighted input speed for each functional class/area type combination. The distance-weighted free-flow speeds were calculated using output from the detailed speed model used by

H-GAC in the travel model development process (as provided by H-GAC) with link volumes set to 0 (i.e., $V/C = 0$). The LOS E speed factors were calculated in a similar manner (distance-weighted LOS E speed divided by distance-weighted input speed) using the detailed speed model output with link volumes set equal to capacity (i.e., $V/C = 1$). Appendix E shows the speed factors and the network functional class and functional group relationship.

The link-specific V/C ratio is calculated as the time period (hourly) volume divided by the time period capacity. The V/C ratio is expressed as:

$$v/c \text{ ratio} = V_h / C_h$$

Where:

V_h = the hourly link volume (travel model \times HPMS factor \times seasonal adjustment factor \times hourly time period factor; Weekend profile factor is included for Saturday and Sunday).

C_h = the hourly link capacity (travel model capacity \times hourly capacity factor). Appendix E shows the hourly capacity factors.

After the V/C ratio was calculated, the link-specific SRF was determined using the V/C ratio, the link-specific SRF area type, the link-specific SRF functional class, and the SRFs. The SRFs are for V/C ratios of 0 to 1 in 0.05 increments (i.e., 0, 0.05, 0.10, ..., 0.95, 1.0). Appendix E shows these SRFs. The link-specific SRF was calculated using linear interpolation. For V/C ratios greater than 1.0, an SRF is not required.

The speed model (for V/C ratios from 0.00 to 1.00) is expressed as:

$$S_{V/C} = S_{0.0} - SRF_{V/C} \times (S_{0.0} - S_{1.0})$$

Where:

$S_{V/C}$ = estimated directional speed for the forecast V/C ratio on the link in the given direction.

$S_{0.0}$ = estimated free-flow speed for the V/C ratio equal to 0.0.

$S_{1.0}$ = estimated LOS E speed for the V/C ratio equal to 1.0.

$SRF_{V/C}$ = SRF for the V/C ratio on the link. The V/C ratio can be 0.0 to 1.0.

For V/C ratios greater than 1.0 and less than 1.5, the following speed model extension was used:

$$S_{V/C} = S_{1.0} \times (1.15 / (1.0 + (0.15 \times (v/c)^4)))$$

Where:

$S_{V/C}$ = estimated directional speed for the forecast V/C ratio on the link in the given direction.

$S_{1.0}$ = estimated LOS E speed for the V/C ratio equal to 1.0.

v/c = the forecast V/C ratio on the link. The V/C ratio can be 1.0 to 1.5.

For V/C ratios greater than 1.5, the speed was calculated using the previous speed model extension, except the V/C ratio was set to 1.5.

These speed models were applied to all functional classes excluding the centroid connector and intrazonal functional classes. For these functional classes, capacity data were not used. The centroid connector travel model input speeds were used as the centroid connector operational speeds estimates. Operational speeds for the intrazonal functional class were estimated by zone as the average of the zone's centroid connector speeds.

The hourly and 24-hour speed (VMT/vehicle hours traveled [VHT]) summaries by county and road type were provided electronically to TCEQ (see Appendix B for electronic data descriptions).

2.2 OFF-NETWORK ACTIVITY

Off-network activity includes ONI hours, SHP, starts, and long-haul combination truck hotelling hours (split into various fractions of activity, such as SHEI and diesel APU hours). These quantities are estimated for each hour of the day at a spatial scale of a county and each vehicle type.

2.2.1 Vehicle Population

Vehicle population data was used to estimate SHP and vehicle starts off-network activity. The vehicle population estimates were derived from end of year 2018, county-specific vehicle registration data provided by the TxDMV, TxDOT district level VMT mix data, and HPMS-reported county-level VMT totals.

Scaling factors (VMT ratios) were used with the 2018 vehicle population estimates to produce the vehicle population estimates specific to each of the analysis years.

The end of year 2018 TxDMV vehicle registration data was provided in the form of total vehicles registered by county, aggregated by the vehicle categories shown in the first column of Table 11. These TxDMV vehicle categories were disaggregated to MOVES SUT and fuel type aggregations shown in the corresponding row of the second column of Table 11.

The following steps were used to disaggregate the TxDMV vehicle registration data to vehicle population data by vehicle type:

- 1) VMT mix data was used to calculate the proportional representation of each MOVES vehicle type within each TxDMV aggregation class (first column of Table 11).
- 2) The proportional fractions calculated in Step 1 were multiplied by the total number of vehicles reported in each TxDMV vehicle registration category to obtain the estimated number of vehicles (populations) for each modeled MOVES vehicle type.
- 3) The long-haul truck vehicle type populations (see the last row of Table 11) were estimated as an extension of their estimated short-haul vehicle type population counterparts. This was accomplished by multiplying a long-haul-to-short-haul ratio derived from the weekday vehicle type VMT mix, by the associated short-haul truck vehicle type populations, from Step 2.

The VMT mix data used in these calculations was the TxDOT district-level, 24-hour weekday VMT mix described in more detail in the “Vehicle Type VMT Mix” section and included in Appendix D.

The methods above yielded 2018 vehicle population data for each of the vehicle types modeled in the EIs.

Analysis year vehicle type populations were then calculated by applying a vehicle types population growth factor (VPGF). The VPGF was calculated using county-level HPMS reported total VMT for the registration data year (2018) and each analysis year (2011, 2017, 2018, 2020, 2023, 2026, and 2027):

$$VPGF = \text{Analysis Year VMT} / \text{Registration Year VMT}$$

Table 11. TxDMV Registration Aggregations for Estimating Vehicle Populations.

| Vehicle Registration ¹ Aggregation | Associated Vehicle Type ² |
|--|--|
| Motorcycles | MC_Gas |
| Passenger Cars (PC) | PC_Gas; PC_Diesel |
| Trucks ≤ 8.5 K gross vehicle weight rating (GVWR, in pounds) | PT_Gas; PT_Diesel; LCT_Gas; LCT_Diesel |
| Trucks > 8.5 and ≤ 19.5 K GVWR | RT_Gas; RT_Diesel SUSht_Gas; SUSht_Diesel MH_Gas; MH_Diesel OBus_Gas; OBus_Diesel TBus_Gas; TBus_Diesel SBus_Gas; SBus_Diesel |
| Trucks > 19.5 K GVWR | CShT_Gas; CShT_Diesel |
| NA ¹ | SULht_Gas; SULht_Diesel CLht_Gas; CLht_Diesel |

¹The four long-haul SUT/fuel type populations are estimated using a long-haul-to-short-haul weekday SUT VMT mix ratio applied to the short-haul SUT population estimate.

²The year-end 2018 TxDMV county registrations data extracts were used (consisting of: 1—light-duty cars, trucks, and motorcycles; 2—heavy-duty diesel trucks; and 3—heavy-duty gasoline trucks) for estimating the vehicle populations.

2.2.2 ONI Hours

Off-network idling, or ONI, is idling activity that occurs while a vehicle is idling in a parking lot, drive-through, driveway, while waiting to pick up passengers, or loading/unloading cargo. ONI applies to all MOVES source types.

TTI estimates county ONI activity (i.e., source hours idling [SHI] off-network) for each hour of the day using the following formula:

$$ONI\ Hours = (SHO_{network} \times TIF - SHI_{network}) / (1 - TIF).$$

Where:

$SHO_{network}$ is the source hours operating on each link. This is calculated by dividing the VMT associated with each link by the link's congested speed.

$SHI_{network}$ is the total source hours idling that occurs on the network (idling that occurs as a component of drive cycles) and is calculated by multiplying $SHO_{network}$ by a road idle fraction (RIF). RIF is the proportion of idling (in units of time) that occurs within a drive-cycle at a specified operational speed. Default values for RIF were used as defined in the MOVES data table "roadidlefraction".

TIF is the total idle fraction, or total idling time on and off-network, divided by total SHO on and off-network: $TIF = (SHI_{network} + ONI) / (SHO_{network} + ONI)$. Default values for TIF were used as defined in the MOVES data table "totalidlefraction".

TTI estimated the summer weekday county ONI hours by vehicle type using a combination of the MOVES SUT factors that vary by MOVES day type and/or month (i.e., roadidlefraction and June-July-August average totalidlefraction) in combination with local summer weekday activity factors by county.

2.2.3 SHP

County-level, vehicle type SHP was calculated for each hour of the summer weekday as the difference, by vehicle type, between the local vehicle population (total available vehicle hours) minus summer weekday source operating hours (SHO).

Adjusted SHP was then calculated by subtracting ONI hours from the previously calculated SHP. Appendix E summarizes county-level 24-hour summer weekday adjusted SHP by vehicle type for each analysis year. Hourly summaries were provided electronically to TCEQ; see Appendix B for electronic data descriptions.

2.2.4 Vehicle Starts

Vehicle starts were estimated using county-level vehicle type populations, and data from MOVES representing the average number of vehicle starts per vehicle type per hour for the summer weekday.

The starts per vehicle type per hour were calculated using MOVES with data on the age distribution and fuel fractions of the local fleet⁸. TTI used local age distributions and fuel fractions inputs to MOVES combined with MOVES default parameters (startsageadjustment, startsmoonthadjust [June through August average], and startspervehicle) to produce hourly starts per vehicle output representative of the June through August summer period and the weekday day type.

For each hour of the day, the MOVES summer weekday starts per vehicle output data were multiplied by the local vehicle type population estimates to produce the total

⁸ Previously with MOVES2014, TTI used MOVES default start per vehicle (which varied only by MOVES day type) in combination with local vehicle populations to estimate vehicle starts activity. In MOVES3, vehicle starts per hour also vary by county (because age distributions also vary by county).

number of starts by vehicle type per hour of the average summer weekday. The 24-hour summaries by year, county, and vehicle type are summarized in Appendix E.

2.2.5 Hotelling: SHEI and APU Hours

Hotelling hours were calculated for heavy-duty, long-haul trucks only (i.e., SUT 62⁹) in several steps. First, the base, total hotelling hours were calculated using information from a TCEQ extended idling study¹⁰. Scaling factors were then used to convert these base hotelling hours to those relevant to each EI scenario (defined by analysis year, season, and day type); and hourly factors were applied to allocate to each hour of the day. Estimates were then made of the proportions of hotelling hours that occur in each of the four hotelling categories: idling using the main engine (SHEI), diesel APU operation, electric APU operation, or main engine off and no auxiliary power¹¹.

2.2.5.1 24-Hour Hotelling

County-level hotelling scaling factors were developed to transform base 2017 winter weekday total daily hotelling hours to daily hotelling hours for each EI scenario. Scaling factors were calculated using the ratio of heavy-duty long haul VMT for a 2017 winter weekday relative to heavy-duty long haul VMT for each EI scenario (scenario SUT 62 VMT divided by 2017 winter weekday SUT 62 VMT).

Total daily hotelling for each county EI was calculated by multiplying the appropriate scaling factor by the county total daily hotelling hours from the 2017 winter weekday hotelling hours study.

2.2.5.2 Hotelling by Hour

Daily hotelling hours were allocated to each hour of the day as a function of the inverse of the activity scenario hourly VHT fractions for SUT 62. The hourly VHT fractions were calculated using the hourly VHT from the SHP estimation process (VHT = SHO). The inverses of these hourly VHT fractions were calculated and then normalized across all hours to produce the county-level, hotelling hours hourly distribution.

⁹ SUT 62 represents long-haul combination trucks, for which only diesel fuel types are modeled.

¹⁰ *Heavy-Duty Vehicle Idle Activity Study, Final Report*. Texas A&M Transportation Institute, Environment and Air Quality Division. July 2019.

<https://www.tceq.texas.gov/assets/public/implementation/air/am/contracts/reports/mob/582177430806-20190722-TTI-HeavyDutyIdleActivityStudyFinal.pdf>

¹¹ Note that only SHEI and APU diesel hoteling generate emissions. The other fractions are calculated for completeness.

If the hourly hotelling hours (as calculated above) were greater than SHP (for SUT 62), the final hotelling hours estimate was set to the SHP.

2.2.5.3 SHEI and APU Hours

The hourly, county-level, hotelling estimates were then factored to calculate SHEI and diesel APU hours activity components using extended idle and APU fractions. The SHEI and APU fractions were derived using MOVES defaults based on SUT 62 model year data. The updated MOVES SHEI and APU hotelling distributions¹² are shown in Table 12. Note that only SHEI and diesel APU are used to calculate emissions.

Table 12. Hotelling Activity Distributions by Model Year and Operating Mode Fraction.

| First Model Year | Last Model Year | 200 Extend/Idling | 201 Diesel Aux | 203 Battery AC | 204 APU Off |
|------------------|-----------------|----------------------|-------------------|-------------------|----------------|
| 1960 | 2009 | 0.80 | 0 | 0 | 0.20 |
| 2010 | 2020 | 0.73 | 0.07 | 0 | 0.20 |
| 2021 | 2023 | 0.48 | 0.24 | 0.08 | 0.20 |
| 2024 | 2026 | 0.40 | 0.32 | 0.08 | 0.20 |
| 2027 | 2050 | 0.36 | 0.32 | 0.12 | 0.20 |

2.3 VEHICLE TYPE VMT MIX

VMT mix represents the fraction of on-road fleet VMT attributable to each SUT by fuel type. It is used to subdivide the total VMT estimates on each link into VMT by vehicle type. Hourly VMT estimates by vehicle type are combined with the appropriate emissions factors in the link-emissions calculations.

VMT mixes were calculated and applied at the scale of:

- Each TxDOT District.
- Each analysis year (EI years).
- Each MOVES roadway type.
- Day Type (Weekday).
- Four time periods per day (AM peak, midday, PM peak, and overnight).

¹² Current MOVES3 defaults (previously adopted while in draft stage for use in the TCEQ 2017 truck extended idling study).

VMT mixes were calculated using local vehicle classification count and ATR data, MOVES defaults, and local registration data. Figure 1 shows a simplified view of the method used to estimate VMT mix¹³, which includes the following steps (numbered in Figure 1):

1. MOVES – Data files of MOVES default values extracted from MOVES databases or standard runs.
2. TxDOT Classification Counts – Data files of standard TxDOT classification data assembled and used for determining the in-use road fleet mix.
3. TxDMV Registration Data – Data files of standard TxDMV vehicle registration summary data assembled and used for determining the in-use road fleet mix.
4. TxDOT ATR Data – Data files of TxDOT ATR data assembled and used to allocate VMT by season and day-of-week.
5. Single Unit Local vs. Total SUT_HDVyy – Procedure based on registration data to generate factors to separate Single Unit versus Combined Unit trucks by region. (SUT_HDVyy has multiple outputs based on vehicle category and fuel.)
6. Combination Local vs. Total SUT_HDXyy – Procedure based on MOVES default data to generate short-haul and long-haul combination truck proportions.
7. Day-of-Week (DOW) Factors by Urban Area/TxDOT District – Seasonal day-of-week factors from TxDOT ATR data used to allocate VMT by season and day-of-week by urban area/TxDOT district.
8. Single Unit Short-Haul vs. Long-Haul SUT_SSHZ – Procedure to separate single unit short-haul versus single unit long-haul using factors generated at SUT_HDVyy and classification count data. Short-haul and long-haul are functionally defined as local and pass-through.
9. Combination Short-Haul vs. Long-Haul SUT_CSHZ – Procedure to separate combination short-haul versus combination long-haul with factors generated using MOVES defaults and classification count data. Short-haul and long-haul are functionally defined as local and pass-through.

¹³ *Developing MOVES Source Use Types and VMT Mix for Conformity Analysis* (TxDOT Air Quality / Conformity IAC-A - TTI Task 409252-0643: Maintain, Update and Enhance Traffic Activity Estimation and Forecasting Methods), Texas Department of Transportation, Austin, TX, August 2016.

10. PV and LDT Fuel MF_Fuelyy – Procedure to generate passenger vehicle and light truck fuel allocation by year based on MOVES national default values and local registration data.
11. Single Unit and Combination Truck Fuel SUT_HDVyy – Procedure to generate single unit and combined truck fuel allocation factors from registration data. (SUT_HDVyy has multiple outputs based on vehicle category and fuel.)
12. SUT_yyddtt – Procedure to generate SUT proportions by year, day type, and time period, based on the previous steps.
13. MOVES SUTs – Output file of MOVES SUTs by region, analysis year, day type, and time period. For MOVES3, P_ICB41D is renamed P_OB41D (per the redefined MOVES3 category equivalent to the previous MOVES2014 category), and P_OB41G is added and set to zero (since we have no data to support the proportion of the “Other Buses” category that is gasoline-fueled).¹⁴

¹⁴ Specifically, the intercity bus category (ICB41) is redefined and renamed “Other Buses” (OB41). Intercity bus was previously considered diesel only. While there is currently no data available to determine the proportion, or even existence of gas fueled “Other Buses” vehicles, the category is necessary to be consistent with MOVES3. Pending additional data, “Other Buses” (OB41) is treated as equivalent to “Intercity Bus” (ICB41) and a placeholder “null” gasoline fueled “Other Buses” (OB41G) is added. The rest of the procedure is identical to the current VMT mix procedure. Thus, these measures and procedures, as modified, provide a functional, hybrid region-specific, disaggregate link-level application of MOVES3 to the extent possible with the data currently available. This hybrid is consistent with previous applications in terms of activity inputs and fleet data.

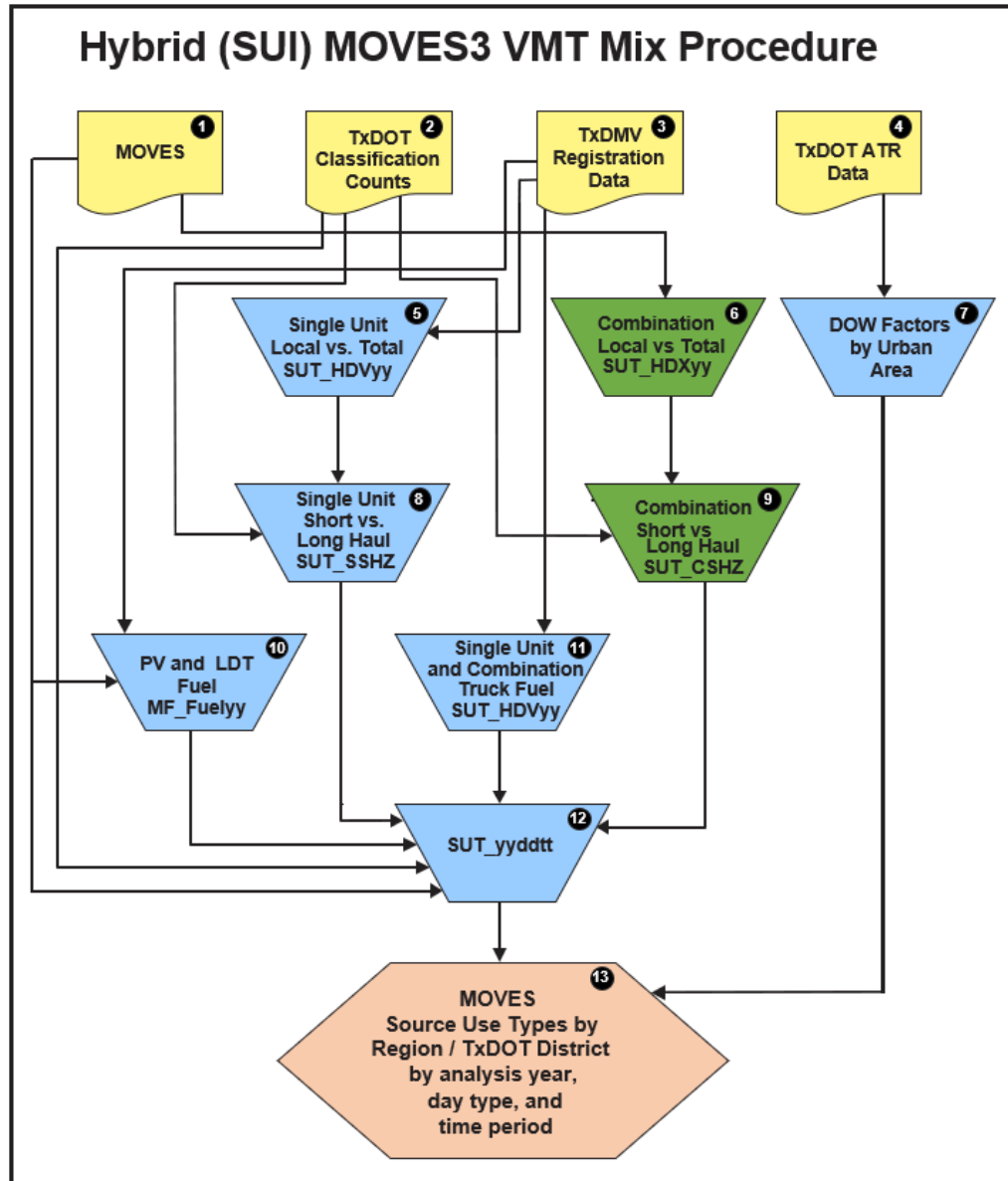


Figure 1. Simplified Overview of the VMT Mix Process.

Using the same data sets and a similar procedure, aggregate (i.e., all road-type categories), TxDOT district-level weekday vehicle type VMT mixes (used in the vehicle population estimation process) were also produced. To ensure general applicability and consistency across all study areas, all VMT mixes were developed in five-year increments beginning with the year 2005 and applied to the analysis years based on Table 13.

Table 13. VMT Mix Year/Analysis Year Correlations.

| VMT Mix Year | Analysis Years |
|---------------------|-----------------------|
| 2005 | 2003 through 2007 |
| 2010 | 2008 through 2012 |
| 2015 | 2013 through 2017 |
| 2020 | 2018 through 2022 |
| 2025 | 2023 through 2027 |
| 2030 | 2028 through 2032 |
| 2035 | 2033 through 2037 |
| 2040 | 2038 through 2042 |
| 2045 | 2043 through 2047 |
| 2050 | 2048 through 2050 |

3.0 EMISSION RATES

This section describes the development of the emission rates (for each pollutant). The emission rates were calculated using EPA's MOVES3 emissions factor model with local and default data. The resulting MOVES3 emission rates were then post-processed using TTI's EI utilities to yield the emission rates used to calculate total emissions. The emission rates were developed based on the *TTI Emissions Inventory Utilities User's Guide* methods and procedures but updated as needed to accommodate MOVES3 and EPA's *Technical Guidance*¹⁵ applicable to MOVES3 inventory development. Special techniques were employed to model emission rates for particular RFP control scenarios.

This initial focus is on the general emission rates development process used for both of the RFP scenarios (i.e., current controls and pre-1990 controls) and the extra incremental individual control scenarios. The final section provides the details on differences in the inputs between all the scenarios and the stepwise development procedure starting with pre-1990 controls, stepping through adding individual controls, and finishing with the current control scenario.

3.1 OVERVIEW

MOVES emission rates mode runs were developed to produce MOVES output databases containing emissions and activity data (some of which were used during the activity estimation methods described previously). Data contained in each MOVES output database was then post-processed into the final on-road emission rates used in each EI.

Emission rates were developed for the summer weekday. These emission rates were then used with the traffic activity levels characteristic of the average summer weekday time period to calculate the full EI.¹⁶

MOVES output rates were post processed using an on-road rates look-up table post-processor utility to convert rates into the units defined by the on- and off-network activity detailed in the previous section (emissions per mile for VMT, emissions per start for vehicle starts, emissions per SHP, etc.). Table 14 defines the rates produced for the external inventory calculations relative to traffic activity measures.

¹⁵ EPA. 2020. *MOVES3 Technical Guidance: Using MOVES to Prepare Emission Inventories for State Implementation Plans and Transportation Conformity*, EPA-420-B-20-052, Office of Transportation and Air Quality. November 2020.

¹⁶ Separate emission rates are needed by MOVES day type, since some emission rate output varies by day type (e.g., start emission rates, due to different weekday versus weekend cold start distributions by hour of day).

Additional post processing was done to the rates to adjust diesel NO_x rates to account for the TxLED fuel (a pre-2011-implemented control measure) used in each HGB county.

Table 14. Emission Rates by Emissions Process and Activity Factor.

| MOVES Emissions Process | Activity ¹ | Emission Rates ² |
|--|-----------------------|-----------------------------|
| Running Exhaust | VMT | mass/mile (mass/mi) |
| Crankcase Running Exhaust | VMT | mass/mi |
| Brake Wear | VMT | mass/mi |
| Tire Wear | VMT | mass/mi |
| Start Exhaust | Starts | mass/start |
| Crankcase Start Exhaust | Starts | mass/start |
| Extended Idle Exhaust | SHEI | mass/hour |
| Crankcase Extended Idle Exhaust | SHEI | mass/hour |
| Auxiliary Power Exhaust | APU Hours | mass/hour |
| Running exhaust – Road Type 1 off-network | ONI Hours | mass/hour |
| Evaporative Permeation Evaporative Fuel Vapor Venting Evaporative Fuel Leaks | VMT, SHP | mass/mi, mass/hour |

¹ VMT, ONI hours, SHP, vehicle starts, and hotelling activity (SHEI and APU hours) are the basic activity factors. SHEI and APU hours are for combination long-haul trucks only.

² All mass per activity rates shown are available in MOVES rates table output, except for mass/SHP, which is produced using the TTI EI utility.

This RFP inventory analysis required sets of emissions factors for the two main RFP control scenarios: pre-1990 controls, and control strategy (or current controls). The difference between pre-1990 controls and control strategy emissions is the emissions reductions due to the combined effects of individual post-1990 CAAA controls.

For calculating emissions reductions from individual post-1990 controls measures, extra MOVES runs were needed. The set-ups for these runs added post-1990 FMVCP, RFG, I/M, and TxLED effects sequentially to the pre-1990 controls set-ups. Rates from these runs were used in estimating the individual control program emissions reductions for 2017, 2018, 2020, 2023, 2026, and 2027 analysis years.

The five control scenarios (with labeling as used in the modeling files) are:

- "CS0" = Pre-1990 Controls scenario.
- "CS1" = CS0 + post-1990 FMVCP.
- "CS2" = CS1 + RFG.
- "CS3" = CS2 + I/M Program.
- "CSC" = CS3 +TxLED fuel (i.e., current control strategy scenario).

Table 15 shows the control measures modeled in the two RFP control scenarios.

Table 15. Control Measure Modeling by RFP Control Scenario.

| Individual Control Measures ¹ | Method | RFP Pre-1990 Controls (CS0) | RFP Control Strategy (CSC) |
|--|---|-----------------------------|----------------------------|
| Pre-1990 CAAA FMVCP | MOVES inputs | √ | √ |
| 1992 Federal Controls on Gasoline Volatility | MOVES inputs | √ | |
| RFG | MOVES inputs | | √ |
| Post-1990 CAAA FMVCP | | | |
| Tier 1 | | | |
| National Low Emission Vehicle Program | | | |
| Tier 2 | | | |
| Tier 3 | | | |
| Heavy-Duty | | | |
| 2004 Diesel | MOVES inputs | | √ |
| 2005 Gasoline | | | |
| 2007 Gasoline and Diesel | | | |
| Highway Motorcycle 2006 | | | |
| Light- and Medium-Duty 2010 Cold Weather | | | |
| Light- and Heavy-Duty Greenhouse Gas (GHG) | | | |
| I/M Program | MOVES inputs | | √ |
| TxLED Fuel | Post-process diesel vehicle NO _x rates | | √ |

¹ For the pre-1990 scenario, MOVES diesel and gasoline property inputs reflected pre-1990 diesel sulfur and pre-1992 conventional gasoline with 1992 summer Reid vapor pressure [RVP] limit promulgated prior to the enactment of the 1990 CAAA. For the control strategy scenario, MOVES gasoline and diesel inputs reflected Ultra Low Sulfur Diesel (ULSD), RFG for 2017 consistent with the actual, summer 2017 Houston RFG survey data, and for later years, the latest available (2020 survey-based) RFG inputs except with sulfur set to the Tier 3 sulfur (10 ppm) standard; Post-1990 FMVCP all together, per MOVES limitation; I/M for Harris, Brazoria, Fort Bend, Galveston, and Montgomery Counties; and TxLED effects adjustment to diesel vehicle NO_x emissions for all counties.

The following sections describe the emission rates development process in terms of MRS files and CDB inputs, executing MOVES emission rates runs, and post-processing, with the focus mainly on current controls. The last section details the pre-1990 controls and incremental individual control emission rates modeling procedures and inputs.

3.2 MOVES RUN SPECIFICATIONS

The MRS is a file (in XML format) that defines the place, time, road categories, vehicle and fuel types, pollutants and emissions processes, and overall scale and level of output detail for the model run. TTI created an MRS for one county and scenario using the MOVES graphical user interface (GUI), then converted the MRS to a template from which

all the required MRS files were built. Table 16 describes the MRS selections used, followed by sections describing the input data used per selection.

Table 16. MRS Selections by MOVES GUI Panel.

| Navigation Panel | Detail Panel | Selection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|--|-------------|---|---|---|---|---|----------------|---|---|---|---|---|------------------|---|---|---|---|---|-------------------------|---|---|---|---|---|--------------|---|---|---|---|---|--------------|---|---|---|---|---|-------------|---|---|---|---|---|---------------|---|---|---|---|---|-------------------------------|---|---|---|---|---|------------------------------|---|---|---|---|---|-------------|---|---|---|---|---|-------------------------------|---|---|---|---|---|------------------------------|---|---|---|---|---|
| Scale ¹ | Model; Domain/Scale; Calculation Type | On-Road; County; Emission Rates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Spans ¹ | Years – Months – Days – Hours | <YEAR> - <MONTH> - <DAY-TYPE> - All | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Geographic Bounds ¹ | States; Counties; Selections | Texas - <COUNTY>; ¹ <TX COUNTY SELECTION> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| On-Road Vehicles ² | <p>SUT/Fuel Combinations:</p> <p>1 – Gasoline, 2 – Diesel, 3 – Compressed natural gas (CNG), 5 – E85 (85% ethanol-15% gasoline blend), 9 – Electric</p> | <p><u>SUT:</u></p> <table border="0"> <tr> <td>Motorcycle:</td> <td>1</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Passenger Car:</td> <td>1</td> <td>2</td> <td>-</td> <td>5</td> <td>9</td> </tr> <tr> <td>Passenger Truck:</td> <td>1</td> <td>2</td> <td>-</td> <td>5</td> <td>9</td> </tr> <tr> <td>Light Commercial Truck:</td> <td>1</td> <td>2</td> <td>-</td> <td>5</td> <td>9</td> </tr> <tr> <td>Other Buses:</td> <td>1</td> <td>2</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>Transit Bus:</td> <td>1</td> <td>2</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>School Bus:</td> <td>1</td> <td>2</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>Refuse Truck:</td> <td>1</td> <td>2</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>Single Unit Short-Haul Truck:</td> <td>1</td> <td>2</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>Single Unit Long-Haul Truck:</td> <td>1</td> <td>2</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>Motor Home:</td> <td>1</td> <td>2</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>Combination Short-Haul Truck:</td> <td>1</td> <td>2</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>Combination Long-Haul Truck:</td> <td>-</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table> <p><u>Fuel Types</u></p> | Motorcycle: | 1 | - | - | - | - | Passenger Car: | 1 | 2 | - | 5 | 9 | Passenger Truck: | 1 | 2 | - | 5 | 9 | Light Commercial Truck: | 1 | 2 | - | 5 | 9 | Other Buses: | 1 | 2 | 3 | - | - | Transit Bus: | 1 | 2 | 3 | - | - | School Bus: | 1 | 2 | 3 | - | - | Refuse Truck: | 1 | 2 | 3 | - | - | Single Unit Short-Haul Truck: | 1 | 2 | 3 | - | - | Single Unit Long-Haul Truck: | 1 | 2 | 3 | - | - | Motor Home: | 1 | 2 | 3 | - | - | Combination Short-Haul Truck: | 1 | 2 | 3 | - | - | Combination Long-Haul Truck: | - | 2 | - | - | - |
| Motorcycle: | 1 | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Passenger Car: | 1 | 2 | - | 5 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Passenger Truck: | 1 | 2 | - | 5 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Light Commercial Truck: | 1 | 2 | - | 5 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other Buses: | 1 | 2 | 3 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transit Bus: | 1 | 2 | 3 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| School Bus: | 1 | 2 | 3 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Refuse Truck: | 1 | 2 | 3 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Single Unit Short-Haul Truck: | 1 | 2 | 3 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Single Unit Long-Haul Truck: | 1 | 2 | 3 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor Home: | 1 | 2 | 3 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Combination Short-Haul Truck: | 1 | 2 | 3 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Combination Long-Haul Truck: | - | 2 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Road Type | Selected Road Types | Off-Network – Rural Restricted Access – Rural Unrestricted Access – Urban Restricted Access – Urban Unrestricted Access | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pollutants ³ and Processes | VOC; CO; NO _x ; Atmospheric CO ₂ ; SO ₂ ; NH ₃ ; PM _{2.5} ; Total Exhaust, Brakewear, and Tirewear; PM ₁₀ ; Total Exhaust, Brakewear, and Tirewear | Dependent on pollutant: Running Exhaust, Start Exhaust, Extended Idle Exhaust, Auxiliary Power Exhaust, Crankcase Running Exhaust, Crankcase Start Exhaust, Crankcase Extended Idle Exhaust, Evap Permeation, Fuel Vapor Venting, Fuel Leaks; Brakewear, Tirewear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General Output | Output Database; Units; Activity | <MOVES OUTPUT DATABASE NAME>; ¹ Grams, KiloJoules, Miles; Distance Traveled, Hotelling Hours, Population, Starts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output Emissions Detail | Output Aggregation; For All Vehicles/Equipment; On-Road | Time: Hour, Geographic: Link; Fuel Type, Emissions Process; Road Type, Source Use Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Create Input Database | Domain Input Database | <COUNTY DATABASE (CDB) INPUT NAME> ¹ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Advanced Features | Aggregation and Data Handling | Only the “clear BaseRateOutput after rate calculations” box is checked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

¹ Limited to one county per County Scale run. County Federal Information Processing Standards (FIPS) code, year, and season/day type labels were included in the MRS file and output database names.

² Although MOVES requires all fuel types to be included in MRSs, only gasoline and diesel were modeled.

³ Pre-requisite pollutants that were needed to model the reported pollutants are not shown.

3.2.1 Scale

The MOVES Domain/Scale “County” was selected as is required for SIP inventory estimates. The MOVES Calculation Type “Emission Rates” was selected for MOVES to produce the emissions rates with speed bin indexing, as needed for the link-based inventory estimation process.

3.2.2 Time Spans

The Time Spans parameters were specified to provide the most detail available, which is the hourly aggregation level, for all hours of the day, for the selected year, month, and day type. One analysis year (2011, 2017, 2018, 2020, 2023, 2026, or 2027) was selected, and one “Months” (July) and one “Days” (Weekdays) selection was made. The July weekday MRS selection together with the other MOVES inputs and MRS settings produced emission rates for the average June through August weekday.

3.2.3 Geographic Bounds

Per the MOVES County Scale, only one county was selected per run.

3.2.4 On-Road Vehicles and Road Type

The local VMT mixes developed for the study include the SUT/fuel type combinations modeled with MOVES, namely, gasoline and diesel. The VMT mixes specify the vehicle fleet as the gasoline and diesel SUTs designated as “on-road vehicles” selections in Table 16. These SUT/fuel type combinations were selected in all the MRSs. All other SUT/fuel type combinations available in MOVES were also selected as required by MOVES, but only gasoline and diesel were modeled. Fuel types output was controlled through adjustments to the MOVES default fuel engine fractions via the MOVES Alternate Vehicle and Fuel Technology (AVFT) table and to the MOVES default flex fuel vehicle fuel type usage fractions in the MOVES fuelusagefraction table (discussed later). All five MOVES road type categories were selected.

3.2.5 Pollutants and Processes

In addition to the required pollutants within the scope of the inventory, MOVES requires that additional pollutants be selected for “chained” pollutants (i.e., pollutants that are calculated as a function of another MOVES pollutant). Of the pollutants listed for the inventory, the following additional pollutants were selected, as required by the model,

due to chaining: non-methane hydrocarbons and total gaseous hydrocarbons (for VOC); total energy consumption (TEC) (for CO₂ and SO₂); and Composite – NonECPM, Elemental Carbon, H₂O (aerosol), and sulfate for Primary Exhaust PM_{2.5} - Total. All of the associated on-road processes available by the selected pollutants were included except for the two area source refueling emissions processes which were not required.

3.2.6 Output Features

The output units were grams, kilojoules, and miles. The activity categories were pre-set by MOVES rates mode (and not adjustable) for inclusion in the output database. The selected output detail level was by hour, link (in MOVES rates mode “link” is the combination of county, road type, and speed bin), pollutant, process, road type, SUT, and fuel type.

The MOVES model produces results at different aggregation levels that are selected in the MRS. The detailed, hourly, link-based inventory method required MOVES weekday day-type rates at the following MOVES output detail level:

- Source use types.
- Fuel types.
- Road type (four actual MOVES road categories and off-network).
- Hours of day.
- Speed bin (16 - in miles-based rate tables).
- Pollutants.
- On-road emissions processes.

For each EI, the vehicle fleet fuel types were modeled using only the predominant on-road fuels of gasoline and diesel (alternate fuels were considered de minimis). The five road type categories in MOVES are Off-Network¹⁷, Rural Restricted Access, Rural Unrestricted Access, Urban Restricted Access, and Urban Unrestricted Access. The rates for each of the actual four MOVES road types are indexed by the 16 MOVES speed bin average speeds: 2.5, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, and 75 mph.

¹⁷ The Off-Network road type is not a ‘real’ road type and is instead used as a placeholder to define off-network emissions.

3.3 MOVES COUNTY INPUT DATABASES

MOVES CDBs were created for each county and year. The CDBs were populated with local input data (such as local fleet age distributions, fuel formulations, meteorological conditions) as well as MOVES defaults.

TTI developed procedures to build and check each CDB. The basic procedure was to write a MySQL script to produce one county scenario CDB and convert it to a template from which all of the CDB scripts were built. The scripts were then run in batch mode to produce all CDBs for the analysis.

Data for populating the CDBs were first prepared in the form of text files and/or MySQL databases (e.g., for local fuels, weather data), and some values were provided directly in the CDB builder MySQL script. Any default data used was selected from the MOVES default database, MOVESDB20210209. After running the scripts to produce the CDBs, the CDBs were checked to verify all CDB tables were built and populated as intended.

Table 17 provides an outline and brief description of the CDBs, followed by a discussion of the development of the local data and the defaults contained therein. Unless otherwise stated, the CDB table data applies to all counties and years. Specific differences in inputs by RFP and incremental control scenarios are discussed in a later section.

Table 17. CDB Input Tables.

| Table | Data Source | Notes |
|-------------------------------|------------------------------------|--|
| auditlog | empty table used | Table must be present for MOVES to recognize CDB |
| year | MOVES default | Sets analysis year as base year (i.e., activity inputs supplied, not forecast by MOVES) |
| state | MOVES default | Identifies the state and idle region |
| hourvmtfraction | MOVES default | Hourly VMT fractions by source type, road type, day type |
| dayvmtfraction | MOVES default | Weekend and weekday period VMT fractions by month for each source type and road type |
| monthvmtfraction | MOVES default (3-month average) | Month VMT fractions by source type |
| hpmsvtypeyear | MOVES default | Annual VMT by HPMS vehicle type |
| roadtypedistribution | MOVES default | Source type VMT fractions by MOVES road type |
| avgspeeddistribution | MOVES default | Driving time fractions by speed bin for each source type, road type, day type, hour |
| sourcetypeyear | MOVES default | Source type populations |
| startsperrypervehicle | MOVES default | Average starts per day by source type and day type |
| startshourfraction | MOVES default | Average hourly allocation of starts by source type and day type |
| startsmothadjust | MOVES default (3-month average) | Average monthly multiplicative adjustment to startsperryperday |
| startsageadjustment | MOVES default | Source type starts by vehicle age relative to the number of starts at age 0 (lower frequency of starts with age) |
| startsupmodedistribution | MOVES default | Distribution of engine start soak times by source type, age, day type, hour |
| totalidlefraction | MOVES default (3-month average) | Ratio of total source hours idling (SHI) and total source hours operating (SHO) for each source type by month, day type, idle region, county type (Metropolitan Statistical Area [MSA] or non-MSA) |
| hotellingactivitydistribution | MOVES default | Allocation of hoteling to four operating modes by zone (e.g., county) and model year group |
| hotellingagefraction | empty table used | Hourly hoteling distribution by age for each zone and day type – included to preempt commandline execution errors |
| hotellinghourfraction | empty table used | Zone and day type hoteling hourly allocations – included to preempt commandline execution errors |
| hotellinghoursperday | empty table used | Year, zone, day type hoteling hours – included to preempt commandline execution errors |
| hotellingmothadjust | empty table used | Hotelling monthly adjustment for each zone and month – included to preempt commandline execution errors |
| zone | MOVES default (set factors = 1) | SHO geographic allocation factors, set to 1.0 for county scale runs |
| zoneroadtype | MOVES default (set factors = 1) | Road type VMT allocation factors to county road type VMT, set to 1.0 for county scale runs |

| Table | Data Source | Notes |
|---------------------------|--|--|
| fuelusagefraction | Local | Flex fuel vehicle fuel type usage, set for Texas modeling assumption: flex fuel vehicles operate totally on gasoline |
| fuelsupply | Local /defaults | Market shares of fuel formulations set to reflect Texas modeling assumptions of gasoline and diesel only, although all MOVES default alternative fuels were also included as required to run MOVES3 (i.e., CNG, E85, and electric were included but not used as specified by AVFT and fuel usage configurations) |
| fuelformulation | Local /defaults | Gasoline and diesel formulations by fuel region based on Texas regional survey data and defaults as needed, with MOVES default CNG, E85, and electric as required to run MOVES3 |
| avft | Local /defaults | Set for Texas modeling assumptions, i.e., gasoline and diesel only, but also include default flex fuel vehicle fractions which are set to 100% gasoline use via the fuelusagefraction table |
| sourcetypeagedistribution | local/default (actual analysis year default) | Distribution by 31 age categories for each source type, based on latest available county vehicle registrations, and MOVES defaults where needed (i.e., for buses, refuse trucks, motor homes) |
| imcoverage | local | Empty for non-I/M counties, or includes I/M program modeling parameters characterizing the local program applicable to the county, to include updated compliance factors based on TCEQ I/M program statistics for Houston |
| county | local | Identifies the county, barometric pressure, high or low altitude, and whether the county is an MSA or non-MSA county |
| zonemonthhour | local | Provides zone hourly temperatures and relative humidity by month using month ID 7 (July) to represent the summer season (populated with local June through August averages) |
| countyyear | local | Stage II refueling control program adjustments, set to zero to reflect the program is no longer in effect (applicable to area sources and does not affect on-road emission rates, but is included as a standard practice) |

3.3.1 Year, State, and County Inputs

The year, state, and county tables are populated with data identifying the analysis year, state, and county of the run.

The yearID field of the “year” table was populated with the analysis year value, and the year was set as a base year (to specify that certain user-input fleet and activity data were to be used, rather than forecast by MOVES during the model runs). As part of designating the appropriate fuel supply for the modeling scenario, the fueleyearID in the year table was also set to the analysis year. With MOVES3, an idleregionID was added to modify the state table.

StateID “48” (Texas) was inserted in the state table. In addition to identifying the county of analysis, the county table contains barometric pressure, and altitude information (discussed further with other meteorological inputs). The county data were selected from a prepared local “meteorology” database containing tables of weather data records for the analysis. Additionally, information on whether the county is in an MSA is included in the county table.

3.3.2 Activity and Vehicle Population Inputs

The TTI EI methodology uses an emission rate by activity method that calculates emissions by multiplying local activity estimates and MOVES-based emission rates external to MOVES. However, MOVES rates mode CDBs require activity inputs in order to calculate the emission rates per activity estimates used in the TTI EI method.

For this reason, default activity input parameters were used to populate the following MOVES tables: hourvmtfraction, dayvmtfraction, monthvmtfraction, hpmsvtypeyear, roadtypedistribution, avgspeeddistribution, sourcetypeyear, startsperdaypervehicle, startshourfraction, startsmmonthadjust, startsageadjustment, startssopmodedistribution, totalidlefraction, and hotellingactivitydistribution. Data for all these tables were selected and inserted from the MOVES default database. In the case of the startsmmonthadjust and totalidlefraction, which vary by month, the MOVES default data were averaged for the three-month summer season period (same for MOVES default monthvmtfraction, for consistency).

The zone and zoneroadtype tables contain zonal sub-allocation activity factors. For county scale analyses, county is equal to zone; therefore these allocation factors were set to 1.0.

3.3.3 Age Distributions and Fuel Engine Fractions Inputs

Local age distributions, or age fractions for each SUT, and local fuel fractions by SUT and model year (or technology), were used, in conjunction with MOVES defaults as needed.

These data were sourced from TxDMV 2018 year-end registration data for each county (this data was used for each analysis year). The age distributions and fuel engine fractions inputs were calculated and written to text files in preparation for loading the data into their CDB tables: the sourcetypeagedistribution table for age distributions and the avft table for fuel engine fractions.

The local TxDMV registration data provides fuel type fractions (proportion of gasoline or diesel-powered vehicles) for heavy-duty vehicles but does not for light-duty vehicles. MOVES default fuel fractions were therefore applied to estimate light-duty fuel fractions. Only gasoline and diesel vehicles were explicitly included in the CDBs¹⁸.

Table 18 summarizes the data sources and aggregation levels used to estimate the local sourcetypeagedistribution and avft inputs to MOVES (inputs summarized in Appendix G).

¹⁸ This was decided after consultation with the TCEQ sponsor.

Table 18. Sources and Aggregations for Age Distributions and Fuel Fractions.

| SUT Name | SUT ID | TxDMV Category ¹ Aggregations for Age Distributions and Fuel/Engine Fractions | Geographic Aggregation for Age Distributions | Geographic Aggregation for Fuel/Engine Fractions ² |
|----------------------------------|--------|---|--|--|
| Motorcycle | 11 | Motorcycles | County | n/a – 100% gasoline, no Fuel/Engine Fractions |
| Passenger Car | 21 | Passenger Cars | County | MOVES default ² |
| Passenger Truck | 31 | Total Trucks <=8500 | County | MOVES default ² |
| Light Commercial Truck | 32 | Total Trucks <=8500 | County | MOVES default ² |
| Single-Unit Short- Haul Truck | 52 | >8500+ >10000+ >14000+ >16000 | Region | Texas Statewide |
| Single-Unit Long- Haul Truck | 53 | >8500+ >10000+ >14000+ >16000 | Texas Statewide | Texas Statewide |
| Refuse Truck | 51 | MOVES default ³ | MOVES default ³ | MOVES default ³ |
| Motor Home | 54 | MOVES default ³ | MOVES default ³ | MOVES default ³ |
| Other Buses | 41 | MOVES default ³ | MOVES default ³ | MOVES default ³ |
| Transit Bus ² | 42 | MOVES default ³ | MOVES default ³ | MOVES default ³ |
| School Bus | 43 | MOVES default ³ | MOVES default ³ | MOVES default ³ |
| Combination Short-Haul Truck | 61 | >19500+ >26000+ >33000+ >60000 | Region | Texas Statewide |
| Combination Long-Haul Truck | 62 | >19500+ >26000+ >33000+ >60000 | Texas Statewide | n/a – 100 % diesel, no Fuel/Engine Fractions |

¹ TxDMV year-end 2018 (latest available, used for all years) county vehicle registrations data were used for developing local inputs (weights are GVWR in units of pounds). The MOVES model default age distributions were from the MOVESDB20210209 database.

² MOVES fuel engine fraction defaults (for gasoline, diesel, E85 capability) were used for light-duty SUTs (with E85 use set to zero in the fuelusagefraction table). MOVES default fuel engine fractions were taken from the MOVESDB20210209 sample vehicle population table.

³ MOVES default values consistent with the analysis year.

3.3.4 Meteorological Inputs

Meteorological data was used to develop MOVES “county” (barometric pressure) and “zonemonthhour” (temperature and relative humidity) table inputs. These inputs were developed as seasonal hourly temperature and relative humidity, and 24-hour barometric pressure averages, using the hourly data from multiple weather stations within the Houston area (originally developed and applied in the TCEQ’s 2011 HGB periodic emissions inventory analysis¹⁹). Altitude was set to low. Table 19 summarizes

¹⁹ 2011 On-Road Mobile Source Actual Annual and Weekday Emissions Inventories: Houston Area, TTI, August 2012.

the temperature and relative humidity inputs. Barometric pressure input for the period was 29.9544 Inches of Mercury.

Table 19. Meteorological Inputs.

| Hour | Temperature (Degrees Fahrenheit) | Relative Humidity (Percent) |
|------|----------------------------------|-----------------------------|
| 1 | 81.78 | 77.92 |
| 2 | 81.05 | 80.26 |
| 3 | 80.42 | 82.41 |
| 4 | 79.88 | 83.82 |
| 5 | 79.38 | 85.06 |
| 6 | 78.92 | 86.09 |
| 7 | 78.66 | 86.78 |
| 8 | 79.91 | 84.25 |
| 9 | 82.99 | 76.56 |
| 10 | 85.64 | 67.93 |
| 11 | 88.01 | 59.29 |
| 12 | 90.11 | 52.73 |
| 13 | 91.82 | 48.13 |
| 14 | 92.94 | 45.45 |
| 15 | 93.60 | 43.78 |
| 16 | 93.82 | 43.29 |
| 17 | 93.55 | 43.99 |
| 18 | 92.67 | 45.94 |
| 19 | 91.15 | 49.19 |
| 20 | 88.90 | 54.47 |
| 21 | 86.34 | 61.24 |
| 22 | 84.64 | 66.62 |
| 23 | 83.45 | 71.05 |
| 24 | 82.54 | 74.73 |

Source: Provided by TCEQ. Houston area weather station data averages for the 2011 June through August period developed originally for the 2011 Air Emissions Reporting Requirements (AERR) inventories, TTI, August 2012. Hour "1" is midnight to 1 a.m., etc.

3.3.5 Fuels Inputs

TTI used various data sources to produce the best available Houston summer fuel formulation inputs to MOVES.

3.3.5.1 Assumptions, Sources, and Procedures

Four MOVES fuels input tables must be consistent for the fuel types defined by the scope of the inventory analysis. These are:

- AVFT (SUT fuel type distributions by model year).
- fuel formulation (fuel properties for the fuels supplied in the study area).
- fuel supply (market shares of each study area fuel formulation).
- fuel usage fraction (fuel types used by flex fuel vehicles).

As defined by the scope of the EIs, only gasoline and diesel fuels were modeled²⁰. Therefore the AVFT model year fuel fractions were normalized for only gasoline, diesel, and flex fuel vehicles (i.e., vehicles with the capability to be powered by gasoline or E85 [a blend of 85% ethanol and 15% gasoline, by volume]). Flex fuel vehicle fuel usage was set to 100% gasoline via the fuel usage fraction table. Gasoline and diesel fuel properties and market shares were then specified in the fuel formulation and fuel supply tables.

The gasoline and diesel fuel property inputs were sourced using local fuel survey data by season and year, supplemented as needed by MOVES defaults and other data (e.g., the U.S. Department of Energy [DOE] annual fuel sales statistics). For future years where no survey data was yet available, the latest available local fuel properties were used, and particular regulated properties were replaced with expected future year values (e.g., regulatory standards or limits, reflected in the MOVES default values for the analysis year and season).

The local data include historical and current, latest available retail outlet seasonal fuel surveys of gasoline and diesel fuel, and annual, estimated state-level fuels sales statistics. The local data also include summaries from which to estimate biodiesel (BD) volumes relative to petroleum diesel sales volumes and gasoline sales estimates by the three grades (regular, mid-grade, premium).

Retail outlet survey data consisted of TCEQ statewide summer gasoline and diesel sampling surveys and EPA summer RFG compliance surveys for Texas RFG areas. The TCEQ survey data applicable to these EIs includes the 2011, 2017, and 2020 summer season statewide surveys. The applicable EPA RFG summer survey data was available from yearly data sets ranging from 2011 through 2020, with separate data for Houston and Dallas areas. TTI used the EPA RFG compliance survey data specific to Houston. For diesel, TTI used TCEQ's statewide diesel surveys data, supplemented with biodiesel volume content estimates based on the DOE Energy Information Administration's (EIA) diesel sales statistics. Biodiesel percentages were updated based on EIA State Energy

²⁰ MOVES3 requires that inputs are developed for all on-road vehicle fuel types available in MOVES, regardless of the local inventory scope. Inclusion of all on-road fuels in the MRSs was needed to prevent MOVES "missing fuels inputs" run errors.

Data System (SEDS) state-level 2011, 2017, and 2018 (latest available) transportation sector BD consumption estimates for Texas.

The fuel formulation development procedures for RFG involved aggregating and averaging RFG properties for Houston by fuel grade, then weighting them into composite properties using relative sales volumes by grade. For diesel sulfur, consistently stable across the state, the statewide averages were calculated and used for all counties.

TTI prepared inputs for both the pre-1990 and control strategy RFP scenarios. The control strategy fuel formulation inputs were based on the local, retail outlet survey data, and where appropriate, expected future year values, as described above. For the pre-1990 controls scenario, TTI used an appropriate MOVES default gasoline formulation. The pre-1990 controls diesel formulation used was developed by TTI for previous analyses based on National Institute for Petroleum and Energy Research (NIPER)-developed information on pre-regulation diesel sulfur content.

The local, summer season, fuels inputs to MOVES were supplied in the CDB fuelsupply and fuelformulation tables. The fuel supply for each county, year, and month (July for summer) consisted of one local gasoline and one local diesel formulation. Each gasoline and diesel formulation market share in the fuel supply was therefore 1.0.²¹

3.3.5.2 Fuel Formulations

Table 20 and Table 21 summarize the gasoline and diesel fuel property inputs. Note that CetaneIndex and PAHContent fields in the fuelformulation table are not currently enabled for use in MOVES. Fuel formulation inputs for the other fuel types in MOVES (i.e., CNG, E85, and electricity), although not shown, were also input as required.

²¹ As stated previously, MOVES3 requires inputs for all on-road vehicle fuel types available in MOVES to be included, regardless of the local inventory scope. The other on-road fuels in MOVES (i.e., CNG, E85, and electricity) were also selected in the MRSs to prevent MOVES “missing fuels inputs” run errors.

Table 20. HGB Counties Reformulated Gasoline MOVES Fuel Formulation Table Inputs.

| Fuel Formulation Field ¹ | Unit | Pre-1990 Controls Fuel ² | 2011 | 2017 | 2018 | 2020 | 2021+ |
|-------------------------------------|--------|-------------------------------------|--------|--------|--------|--------|--------|
| fuelFormulationID | - | 10001 | 11724 | 17724 | 18724 | 13724 | 14724 |
| fuelSubtypeID | - | 10 | 12 | 12 | 12 | 12 | 12 |
| RVP | psi | 7.80 | 7.06 | 7.01 | 7.13 | 7.15 | 7.15 |
| sulfurLevel | ppm | 429.96 | 29.52 | 19.49 | 20.57 | 10.01 | 10.00 |
| ETOHVolume | vol.% | 0 | 9.76 | 9.67 | 9.73 | 9.56 | 9.56 |
| MTBEVolume | vol.% | 0 | 0 | 0 | 0 | 0 | 0 |
| ETBEVolume | vol.% | 0 | 0 | 0 | 0 | 0 | 0 |
| TAMEVolume | vol.% | 0 | 0 | 0 | 0 | 0 | 0 |
| aromaticContent | vol.% | 26.40 | 14.75 | 15.62 | 14.42 | 16.89 | 16.89 |
| olefinContent | vol.% | 11.90 | 13.17 | 10.83 | 11.98 | 10.29 | 10.29 |
| benzeneContent | vol.% | 1.64 | 0.53 | 0.51 | 0.51 | 0.42 | 0.42 |
| e200 | vap.% | 46.04 | 49.21 | 49.02 | 49.01 | 48.26 | 48.26 |
| e300 | vap.% | 81.43 | 84.64 | 84.54 | 84.73 | 84.89 | 84.89 |
| BioDieseEsterVolume | vol.% | \N | \N | \N | \N | \N | \N |
| CetaneIndex | - | \N | \N | \N | \N | \N | \N |
| PAHContent | vol.% | \N | \N | \N | \N | \N | \N |
| T50 | deg. F | 207.90 | 202.18 | 203.13 | 203.14 | 206.18 | 206.18 |
| T90 | deg. F | 336.54 | 328.58 | 327.89 | 327.07 | 326.87 | 326.87 |

¹ TTI based the RFG formulations on EPA's Houston RFG compliance (summer) surveys for 2011, 2017, 2018, and 2020 (latest available). RFG properties are actual averages (calculated as composites of averages by fuel grade using sales fractions based on Texas RFG sales volume data from the EIA). The RFG properties for future years are based on the latest survey, except for sulfur, which is set to the expected future level (MOVES3 default, consistent with the Tier 3 standard). Fuel subtype ID 12 is 10% ethanol blended in gasoline (E10).

² For the Pre-1990 Controls fuel, the fuel formulation ID 10001 is consistent with TCEQ's most recent HGB RFP emissions analysis (TTI 2019). The 7.8 psi RVP limit formulation (not available in MOVES3) is from MOVES2014b. Fuel subtype ID 10 is non-oxygenated conventional gasoline.

Table 21. HGB Diesel MOVES Fuel Formulation Table Inputs.

| Fuel Formulation Field | Unit | Pre-1990 Controls Fuel ¹ | 2011 | 2017 | 2018 | 2020 | 2021+ |
|----------------------------------|--------|-------------------------------------|-------|-------|-------|-------|-------|
| fuelFormulationID | - | 32500 | 30572 | 31706 | 31806 | 30585 | 30600 |
| fuelSubtypeID ² | - | 20 | 21 | 21 | 21 | 21 | 21 |
| RVP | psi | \N | \N | \N | \N | \N | \N |
| sulfurLevel ³ | ppm | 2500.00 | 5.72 | 6.37 | 6.37 | 5.85 | 6.00 |
| ETOHVolume | vol.% | \N | \N | \N | \N | \N | \N |
| MTBEVolume | vol.% | \N | \N | \N | \N | \N | \N |
| ETBEVolume | vol.% | \N | \N | \N | \N | \N | \N |
| TAMEVolume | vol.% | \N | \N | \N | \N | \N | \N |
| aromaticContent | vol.% | \N | \N | \N | \N | \N | \N |
| olefinContent | vol.% | \N | \N | \N | \N | \N | \N |
| benzeneContent | vol.% | \N | \N | \N | \N | \N | \N |
| e200 | vap.% | \N | \N | \N | \N | \N | \N |
| e300 | vap.% | \N | \N | \N | \N | \N | \N |
| BioDieseEsterVolume ⁴ | vol.% | 0 | 1.89 | 4.68 | 4.86 | 4.86 | 4.86 |
| CetaneIndex | - | \N | \N | \N | \N | \N | \N |
| PAHContent | vol.% | \N | \N | \N | \N | \N | \N |
| T50 | deg. F | \N | \N | \N | \N | \N | \N |
| T90 | deg. F | \N | \N | \N | \N | \N | \N |

¹ For the Pre-1990 Controls fuel, the fuel formulation ID 32500 is consistent with TCEQ's most recent HGB RFP emissions analysis (TTI 2019). The diesel formulation is based on NIPER U.S. refiner survey summaries which placed average sulfur content for the typical No. 2 diesel, within the post-1979/pre-1993 regulation period, in the 2,500 to 3,000 ppm range.

² Fuel subtype ID 20 is conventional diesel. Fuel subtype ID 21 is biodiesel.

³ Diesel sulfur was based on statewide averages of TCEQ survey data (2018 used nearest survey-based value) with MOVES default for expected future year value.

⁴ BD percentages are based on EIA transportation sector BD consumption estimates for Texas, by year, 2018 latest available for future years.

The actual fuel formation and fuel supply input database tables used were included in the electronic data submittal as described in Appendix B.

3.3.6 I/M Inputs

To model a local I/M program design, it must be defined using MOVES I/M coverage parameters by source type, entered in the MOVES imcoverage table. The appropriate internal MOVES I/M factors for modeling a local I/M program are designated in a model run by the local program input data in the imcoverage table.²²

²² In general, MOVES produces a local I/M program effect as an adjustment to the model's internal reference I/M program effect (i.e., represented as the "standard I/M difference" in the pair of MOVES

MOVES adjusts emissions (Hydrocarbons [HC], CO, and NO_x) at the source-type level to incorporate the benefits of the local I/M program design specified using the MOVES I/M coverage table parameters. TTI previously produced a comprehensive set of MOVES imcoverage records for Texas I/M counties to use in place of MOVES defaults.

TTI produced the local I/M coverage input parameters to represent Texas I/M program designs as specified in the Texas I/M SIP and Texas rules. The I/M program requires annual emissions testing of gasoline vehicles within a 2-through-24 year vehicle age coverage window (motorcycles, military tactical vehicles, diesel-powered vehicles, and antique vehicles are excluded). A gas cap integrity test is required on all these vehicles, and depending on the model year, gross vehicle weight (GVW) (threshold of 8,500 pounds GVW separating light-duty and heavy-duty class), and I/M area, current vehicle emissions testing may use On-Board Diagnostics (OBD) tests, the Acceleration Simulation Mode (ASM-2) test, or the Two-Speed Idle (TSI) test.

Table 22 and associated notes describe MOVES imcoverage records developed by TTI for the years available in MOVES applicable to each HGB I/M county. For additional I/M program details, see the current I/M SIP and/or pertinent Texas Administrative Code.²³

Following is the general approach used to build the Texas imcoverage tables:

- Identified MOVES I/M test standards applicable to Texas I/M counties in consultation with TCEQ (see Table 22, column 4).
- Queried the MOVES database to determine the extent to which MOVES provides I/M effects corresponding to Texas I/M Programs (i.e., test frequency, fuel type, and test types). From the result, listed the SUTs, test standards, pollutant and emissions process combinations with I/M effects in MOVES (i.e., with non-zero MOVES I/M factors and corresponding base emission rates with non-zero standard I/M differences).
- Categorized counties and years in groups under the pertinent MOVES test standards.
- Assigned MOVES I/M Program IDs such that: 1) all MOVES default I/M Program IDs were excluded; and 2) for each year ID, each I/M Program ID represented a

emissions rates [I/M – No I/M], which are specific to vehicle regulatory class categories of which the source types are composed). MOVES contains a large set of “I/M factors” by source type (in the MOVES imfactor table) computed specifically for adjusting the MOVES standard I/M difference to reflect the effects of local I/M program design alternatives.

²³ Revision to the State Implementation Plan Mobile Source Strategies, Inspection and Maintenance State Implementation Plan Revision, TCEQ, adopted February 12, 2014.

unique combination of test standard, test frequency, begin model year, and end model year.

Table 22. MOVES I/M Coverage Inputs for Annual Inspections of Gasoline Vehicles (Harris, Brazoria, Fort Bend, Galveston, Montgomery Counties).

| Year ID ¹ | Begin Model Year ID ¹ | End Model Year ID ¹ | Test Standards ID ² | Source TypeID ³ |
|------------------------------|----------------------------------|--------------------------------|---------------------------------------|----------------------------|
| 2011 2017 2018 | 1987 1993 1994 | 1995 1995 1995 | 23 (A2525/5015 Phase) 41 (Evp Cap) | 21 (PC), 31 (PT), 32 (LCT) |
| 2011 2017 2018 | 1996 1996 1996 | 2009 2015 2016 | 51 (Exh OBD) 45 (Evp Cap, OBD) | 21 (PC), 31 (PT), 32 (LCT) |
| 2020 2023 2026 2027 | 1996 1999 2002 2003 | 2018 2021 2024 2025 | 51 (Exh OBD) 45 (Evp Cap, OBD) | 21 (PC), 31 (PT), 32 (LCT) |

¹ begmodelyearID and endmodelyearID define the range of model years covered. Respectively, the 2 through 24-year vehicle age coverage window is first and last model years are calculated as YearID – 24, and YearID – 2. Note that for analysis years (i.e., Year ID) 2018 and earlier, there are two sets of tests, one for 1995 model years and older, and the other for 1996 and newer, whereas starting in analysis year 2020 the older set of tests (and model years) has phased out of the coverage window. ² Pollutant/processes affected are starts and running exhaust HC, CO, NO_x, and tank vapor venting HC.

³ PC = Passenger Car; PT= Passenger Truck; and LCT – Light Commercial Truck. Source type compliance factor field input values were updated and provided by TCEQ for this analysis (March 2021), per Section 4.9.6, *MOVES Technical Guidance*, EPA, November 2020. The compliance factors were based on local I/M program statistics by analysis year, and the latest available data (2019) for future years. The HGB I/M county MOVES compliance factors by year, in percent, are:

- ✓ 2011: PC – 88.89; PT – 85.44; LCT – 66.90.
- ✓ 2017: PC – 95.50; PT – 91.79; LCT – 71.87.
- ✓ 2018: PC – 93.20; PT – 89.58; LCT – 70.14.
- ✓ 2019 and later: PC – 95.00; PT – 91.31; LCT – 71.49.

3.4 CHECKS AND RUNS

After completing the input data preparation, the CDBs were checked to verify that all 32 tables were in the appropriate CDBs and the tables were populated with data as intended. The MRSs were executed in batches using the MOVES commandline tool. After completion, TTI verified that the MOVES runs were error-free (i.e., checked all run log text files for errors and warnings and compared record counts in each rate table between output databases).

3.5 POST-PROCESSING RUNS

Each MOVES output database was post-processed using TTI's MOVES emission rates post-processing utility, updated for MOVES3, for on-road mobile emission rates. Post-processing for each MOVES run was essentially performed in two steps, first to convert MOVES output mass/vehicle parked vehicle evaporative rates to mass/SHP-based emission rates, then, as applicable, to adjust for TxLED effects on diesel vehicle NO_x emission rates. The final emission rates were compiled in lookup tables for input to the emission calculations.

- The mass/SHP off-network evaporative process rates were calculated using data from the CDB, the MOVES default database, and the MOVES rateperprofile and ratepervehicle emission rate output. The utility also copied the mass/mile, mass/start, and mass/hour rates along with the units into emission rate tables. The utility created the look-up tables ttirateperdistance (which also includes the rateperhour rates for off-network idling), ttirateperstart, ttirateperhour (for SHEI and APU hours), and ttiratepershp for each scenario.
- For the RFP control strategy scenario runs, this step applied TxLED adjustments (see factors provided by TCEQ in Table 23) to the diesel vehicle NO_x emissions rates for all counties. (TxLED was not included for the Pre-1990 Controls scenario modeling.) TCEQ produced these average diesel SUT NO_x adjustments using 4.8 percent and 6.2 percent reductions for 2002 and later, and 2001 and earlier model years, respectively.²⁴ The adjusted rate tables were input to the on-road mobile source emissions calculator utility.²⁵

See the utility descriptions in Appendix A for more information.

²⁴ Reductions as detailed in the EPA Office of Transportation and Air Quality Memorandum, RE: Texas Low Emission Diesel [LED] Fuel Benefits, September 27, 2001.

²⁵ The TxLED counties list may be found at: <http://www.tceq.texas.gov/airquality/mobilesource/txled/txled-affected-counties>. For full details on the TCEQ TxLED factor development procedure, see TxLED estimation spreadsheets at: <ftp://amdaftp.tceq.texas.gov/pub/EI/onroad/txled/>.

Table 23. TxLED NO_x Adjustment Factors Summary by Year.

| Diesel Fuel Source Use Type | 2011 | 2017 | 2018 | 2020 | 2023 | 2026 | 2027 |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Passenger Car | 0.9419 | 0.9491 | 0.9503 | 0.9508 | 0.9514 | 0.9517 | 0.9518 |
| Passenger Truck | 0.9430 | 0.9459 | 0.9464 | 0.9477 | 0.9489 | 0.9498 | 0.9501 |
| Light Commercial Truck | 0.9430 | 0.9455 | 0.9460 | 0.9473 | 0.9485 | 0.9494 | 0.9496 |
| Other Bus | 0.9423 | 0.9450 | 0.9456 | 0.9468 | 0.9481 | 0.9494 | 0.9498 |
| Transit Bus | 0.9467 | 0.9493 | 0.9496 | 0.9502 | 0.9508 | 0.9512 | 0.9513 |
| School Bus | 0.9433 | 0.9466 | 0.9471 | 0.9481 | 0.9494 | 0.9503 | 0.9506 |
| Refuse Truck | 0.9436 | 0.9463 | 0.9468 | 0.9479 | 0.9495 | 0.9508 | 0.9512 |
| Single Unit Short-Haul Truck | 0.9486 | 0.9508 | 0.9510 | 0.9514 | 0.9518 | 0.9519 | 0.9520 |
| Single Unit Long-Haul Truck | 0.9489 | 0.9509 | 0.9510 | 0.9513 | 0.9516 | 0.9518 | 0.9518 |
| Motor Home | 0.9439 | 0.9447 | 0.9450 | 0.9456 | 0.9467 | 0.9483 | 0.9491 |
| Combination Short-Haul Truck | 0.9461 | 0.9500 | 0.9502 | 0.9506 | 0.9513 | 0.9517 | 0.9518 |
| Combination Long-Haul Truck | 0.9444 | 0.9482 | 0.9485 | 0.9492 | 0.9507 | 0.9514 | 0.9516 |

The resulting hourly on-road rates were input to the emissions utility to calculate the on-road mobile source inventories for each county RFP inventory scenario. All emissions factor modeling inputs used in the inventories were provided electronically as described in Appendix B.

3.6 PRE-1990 CONTROLS SCENARIO AND EMISSION RATES FOR INDIVIDUAL CONTROL REDUCTIONS

In a manner consistent with the development of the CS0 and CSC scenario emission rates, TTI produced emission rates for the CS1, CS2, and CS3 incremental control scenarios needed for estimating the individual control measure emissions reductions. Table 24 summarizes the run sequence.

Note that MOVES2014b includes the *Compute Rate-of-Progress "No Clean Air Act Amendments"* feature which assigns 1993 model year emission rates to all post-1993 vehicles. This enabled excluding post-1990 CAAA FMVCP effects in emission rates output, needed for the "Pre-1990 Controls" (CS0) scenario. Since this feature was omitted from MOVES3, TCEQ and TTI agreed on using an alternative method for excluding post-1990 FMVCP effects. This alternative used for the CS0 scenario was to modify the age distributions input to MOVES by setting the 1994 and later model year age fractions to zero and renormalizing the distributions for 1993 and older model years. This alternative provided a conservative result in that "less-deteriorated" or lower mileage 1993 model year vehicles were modeled as not existing in the fleet, shifting toward an overall higher average mileage, or older fleet. Also, since 1993 model year

vehicles completely rotate out of the MOVES fleet starting in 2024, the 2023 analysis year CS0 emission rates were used as surrogates for the 2026 and 2027 analysis year CS0 RFP scenario emission rates.

MOVES post-processor utility runs on the CS0 and CSC scenarios were used in combination with post-processor results for the extra runs needed to produce the five scenarios of emissions estimates. The CS0 and CSC runs and added individual control runs are summarized for the overall emission rates development process, which includes the development of MOVES setups (MRSs, CDBs), and post-processing set-ups. (Utility runs to calculate the emissions estimates are discussed in the next section).

Table 24. Emission Factor Control Scenarios Modeling Sequence.

| Scenario Label | Controls Increment | MOVES CDB | MRS MOVES Runs | Post-process Rates/SHP (TxLED) |
|----------------|--------------------------|---|----------------|--------------------------------|
| CS0 | Pre-1990 Controls (base) | Pre-1990 controls with age distributions set to 1993 model year fleet | CS0 labels | √ CS0_calc (no TxLED) |
| CS1 | CS0 + post-1990 FMVCP | Same as CS0 except used current age distributions | CS1 labels | √ CS1_calc (no TxLED) |
| CS2 | CS1 + RFG and ULSD | Same as CS1 except current fuels replaced pre-1990 fuels | CS2 labels | √ CS2_calc (no TxLED) |
| CS3 | CS2 + I/M | Same as CS2 except I/M coverage records added (except non-I/M counties) | CS3 labels | √ CS3_calc (no TxLED) |
| CSC | CS3 + TxLED | Same as CS3 CDB | CS3 labels | √ CSC_adj (TxLED-adjusted) |

As shown in Table 24, the CS1, CS2, and CS3 control scenarios required the full process stream of set-ups and runs, with no TxLED adjustment applied. The CS3 scenario after adjustment for TxLED is the existing CSC full control strategy scenario (i.e., CS3 is the pre-TxLED-adjusted CSC). This series of additional emissions factor modeling set-ups and runs was executed for 2017, 2018, 2020, 2023, 2026, and 2027 analysis years.

The emissions factors for the CS1, CS2, and CS3 incremental control scenarios for each year and county were input with appropriate activity inputs to the emissions calculation utility to produce the emissions estimates that, together with the existing CS0 and CSC scenario emissions, were used to quantify the individual control measure emissions reductions, discussed in a later section.

The MOVES emissions factor set-ups used (MRS files and CDBs) were provided as a part of the electronic data submittal (see Appendix B).

4.0 EMISSIONS CALCULATIONS

TTI calculated hourly on-road mobile emissions by county for each inventory scenario using the TTI EI utilities. The TDM link-based inventory methodology calculated on- and off-network emissions by multiplying traffic activity by emission rates. The VMT-based emissions calculations used the TDM link-based VMT and congested speeds to estimate link-level emissions. The off-network emissions calculations used off-network activity (ONI hours, SHP, starts, SHEI, and APU hours) to estimate emissions at the county level.

The TTI EI utilities produced emissions outputs aggregated by county, hour, road functional class, road area type, vehicle type, pollutant, pollutant process, and link for on-network emissions; and county, hour, road functional class, vehicle type, pollutant, and pollutant process for off-network emissions.

These outputs were then post-processed to produce electronic files in formats suitable for submission to the TCEQ sponsor, including a standard tab-delimited EI summary, various tab-delimited EI summary aggregations, a tab-delimited source classification code (SCC)-coded EI summary, and an XML-formatted EI summary of the RFP control strategy EIs.

4.1 INPUTS

County-level hourly link (on-network) and off-network emissions for each inventory scenario were calculated using TTI's EI utilities and the following inputs:

- *County of inventory* – from study area counties list, including county FIPS, link data county code, TxDOT district ID, county group FIPS (where applicable), TxLED flag, county type flag (MSA or non-MSA).
- *Vehicle type VMT mix* – time period TxDOT district-level VMT mix by MOVES roadway type.
- *Time period designation* – the four VMT mix time periods to hour-of-day associations.
- *Roadway-based activity* – link (and intrazonal link)-specific, hourly, directional, operational VMT and speed estimates as developed by the EI utility to include A node, B node, county number, TDM road type (functional class) code, link length, congested (operational) speed, VMT, and TDM area type code.
- *TDM road type designations* – TDM road type and area type codes to MOVES road type codes (and to VMT mix road type, and rates road type codes) (see Table 25).

- *Off-network activity* – county, hourly ONI hours, SHP, starts, SHEI, and APU hours by vehicle type.
- *Pollutant/process/units list* – for emissions.
- *Roadway-based emissions factors* – MOVES-based, county level by pollutant, process, hour, average speed, MOVES road type, SUT, and fuel type.
- *Off-network (parked vehicle) emissions factors* – MOVES-based, county level by pollutant, process, hour, SUT, and fuel type.
- *SCCs* – mapping for MOVES source type, fuel type, road type, and process codes to output SCCs.
- *MOVES pollutant codes to National Emissions Inventory (NEI) pollutant codes* – for SCC output.

4.1.1 VMT-Based On-network Emissions

The VMT-based emissions were calculated for each hour using the time-period TxDOT-level SUT/fuel type VMT mix, the link VMT and speeds estimates, the MOVES-based “on-network” emissions factors, and the link road type/area type-to-MOVES road type designations. Each link was assigned a MOVES road type based on the link’s road type and area type (see Table 25). The link VMT was distributed to each vehicle type using the VMT mix from the appropriate time period based on the link’s MOVES road type. The time period VMT mixes were applied by the hour as follows: morning peak – 6 a.m. to 9 a.m.; mid-day – 9 a.m. to 3 p.m.; evening peak – 3 p.m. to 7 p.m.; and overnight – 7 p.m. to 6 a.m.

The emissions factors by hour for each vehicle type and MOVES road type were selected based on the designated hour of the link data file, each link’s MOVES road type code, and each link’s speed. For link speeds falling between MOVES speed bin average speeds, emissions factors were interpolated from bounding speeds. For link speeds falling outside of the MOVES speed range (less than 2.5 mph and greater than 75 mph), the emissions factors for the associated bounding speeds were used. The mass/mi rates were multiplied by the link vehicle type VMT producing the link-level emissions estimates. This was performed for each hour of the day.

Table 25. H-GAC TDM Road Type/Area Type to MOVES Road Type Designations.

| TDM Road Type (Code - Name) ¹ | TDM Area Type (Code - Name) ¹ | MOVES Road Type (Code - Name) ^{1, 2} |
|---|--|--|
| 3 - Toll Roads | 5 – Rural | 2 – Rural Restricted Access |
| 10 - Rural Interstate | 5 – Rural | 2 – Rural Restricted Access |
| 11 - Rural Other Freeway | 5 – Rural | 2 – Rural Restricted Access |
| 4 - Ramps (Fwy/Toll/Frnt) | 5 – Rural | 3 – Rural Unrestricted Access |
| 8 - Local (Centroid Connector) | 5 – Rural | 3 – Rural Unrestricted Access |
| 12 - Rural Principal Arterial | 5 – Rural | 3 – Rural Unrestricted Access |
| 13 - Rural Other Arterial | 5 – Rural | 3 – Rural Unrestricted Access |
| 14 - Rural Major Collector | 5 – Rural | 3 – Rural Unrestricted Access |
| 15 - Rural Collector | 5 – Rural | 3 – Rural Unrestricted Access |
| 1 - Urban Interstate | 1 – CBD; 2 – Urban; 3 – Urban Fringe | 4 – Urban Restricted Access |
| 2 - Urban Other Freeway | 2 – Urban; 3 – Urban Fringe | 4 – Urban Restricted Access |
| 3 - Toll Roads | 1 – CBD; 2 – Urban; 3 – Urban Fringe; 4 – Suburban | 4 – Urban Restricted Access |
| 10 - Rural Interstate | 2 – Urban; 3 – Urban Fringe; 4 – Suburban | 4 – Urban Restricted Access |
| 11 - Rural Other Freeway | 3 - Urban Fringe; 4 – Suburban | 4 – Urban Restricted Access |
| 4 - Ramps (Fwy/Toll/Frnt) | 1 – CBD; 2 – Urban; 3 – Urban Fringe; 4 – Suburban | 5 – Urban Unrestricted Access |
| 5 - Urban Principal Arterial | 1 – CBD; 2 – Urban; 3 – Urban Fringe | 5 – Urban Unrestricted Access |
| 6 - Urban Other Arterial | 1 – CBD; 2 – Urban; 3 – Urban Fringe; 4 – Suburban | 5 – Urban Unrestricted Access |
| 7 - Urban Collector | 1 – CBD; 2 – Urban; 3 – Urban Fringe | 5 – Urban Unrestricted Access |
| 8 - Local (Centroid Connector) | 1 – CBD; 2 – Urban; 3 – Urban Fringe; 4 – Suburban | 5 – Urban Unrestricted Access |
| 12 - Rural Principal Arterial | 3 – Urban Fringe; 4 – Suburban | 5 – Urban Unrestricted Access |
| 13 - Rural Other Arterial | 3 – Urban Fringe; 4 – Suburban | 5 – Urban Unrestricted Access |
| 14 - Rural Major Collector | 3 – Urban Fringe; 4 – Suburban | 5 – Urban Unrestricted Access |
| 15 - Rural Collector | 3 – Urban Fringe; 4 – Suburban | 5 – Urban Unrestricted Access |
| 40 - Local (Intrazonal) | 40 – Local (Intrazonal) | 5 – Urban Unrestricted Access |

¹ The TDM road type and area type code combinations are also correlated to VMT mix road type codes and emission rate road type codes, which, for this analysis, are identical to the MOVES road type codes.

² The four period, time-of-day VMT mix to hour-of-day designations are: AM peak – three hours of 6 a.m. to 9 a.m.; mid-day – six hours of 9 a.m. to 3 p.m.; PM peak – four hours of 3 p.m. to 7 p.m.; and overnight – 11 hours of 7 p.m. to 6 a.m.

4.1.2 Off-Network Emissions

The off-network emissions were calculated at the county-level by multiplying the hourly MOVES-based SUT/fuel type off-network emissions factors by the appropriate county-level hourly SUT/fuel type off-network activity, which was determined by the pollutant process (and MOVES road type “1” for ONI) and associated emission rates table. The off-

network emissions calculations used off-network activity (ONI hours, SHP, starts, SHEI, and APU hours) to estimate emissions at the county level.

4.2 EMISSIONS OUTPUT

The TTI EI utilities hourly link-based emissions output data sets included three output files per run:

- A log file summarizing run times and min/max output file sizes, etc.
- A tab-delimited summary output file consisting of one header section followed by hourly and 24-hour totals data blocks of on-road activity and emissions (in units of pounds). Hourly and 24-hour total summaries are by road type and vehicle type of VMT, VHT, speed (VMT/VHT), pollutant totals, and pollutant process totals (with the “off-network” category listed as the last road type preceding the TOTALS row in each data block), and with starts, SHP, SHEI, and APU activity rows last in the activity data block for each time period.
- A tab-delimited summary SCC output file that contains the 24-hour totals of VMT and emissions (in units of pounds) using inventory data aggregations, SCCs, and pollutant codes consistent with the EPA’s 2017 NEI.

The pollutants reported are listed in Table 26.

Table 26. Pollutants.

| Pollutant ID | Pollutant Name |
|--------------|---|
| 2 | Carbon Monoxide (CO) |
| 3 | Oxides of Nitrogen (NO _x) |
| 30 | Ammonia (NH ₃) |
| 31 | Sulfur Dioxide (SO ₂) |
| 87 | Volatile Organic Compounds (VOC) |
| 90 | Atmospheric CO ₂ |
| 100 | Primary Exhaust PM ₁₀ – Total |
| 106 | Primary PM ₁₀ –Brakewear Particulate |
| 107 | Primary PM ₁₀ – Tirewear Particulate |
| 110 | Primary Exhaust PM _{2.5} – Total |
| 116 | Primary PM _{2.5} – Brakewear Particulate |
| 117 | Primary PM _{2.5} – Tirewear Particulate |

Additional post-processors produced inventory extracts from the standard tab-delimited output in seven different aggregations. All these files were provided as a part of the data package as described in Appendix B.

4.2.1 Summary of Results

Table 27, Table 28, and Table 29 summarize the resulting pollutant totals inventory estimates and individual control strategy reduction estimates for the HGB eight-county area. The PM emissions estimates in Table 27 are aggregates of exhaust processes, brakewear, and tirewear.

Table 27. HGB Eight-County Area Summer Weekday On-Road Mobile Source RFP Emissions Inventories (Tons/Day).

Base Year¹

| Year | VMT | Speed | VOC | CO | NO _x | SO ₂ | NH ₃ | CO ₂ | PM _{2.5} | PM ₁₀ |
|------|-------------|-------|-------|----------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| 2011 | 145,516,066 | 30.32 | 84.12 | 1,244.41 | 179.34 | 1.52 | 5.86 | 89,915.60 | 6.44 | 14.82 |

Pre-1990 Controls²

| Year | VMT | Speed | VOC | CO | NO _x | SO ₂ | NH ₃ | CO ₂ | PM _{2.5} | PM ₁₀ |
|------|-------------|-------|--------|-----------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| 2017 | 173,533,549 | 34.63 | 619.10 | 8,950.79 | 1,047.74 | 48.76 | 19.82 | 98,733.37 | 20.97 | 30.57 |
| 2018 | 178,967,556 | 37.72 | 609.63 | 8,785.97 | 1,081.45 | 50.77 | 20.59 | 100,247.06 | 21.44 | 30.38 |
| 2020 | 187,942,688 | 37.56 | 641.98 | 9,232.64 | 1,138.21 | 53.52 | 21.63 | 105,494.76 | 22.64 | 32.10 |
| 2023 | 199,141,361 | 37.49 | 680.43 | 9,772.96 | 1,205.41 | 56.90 | 22.96 | 111,792.68 | 24.01 | 34.05 |
| 2026 | 208,706,310 | 37.19 | 716.68 | 10,288.79 | 1,264.15 | 59.69 | 24.05 | 117,411.78 | 25.22 | 35.87 |
| 2027 | 211,938,550 | 37.07 | 729.07 | 10,465.46 | 1,284.15 | 60.65 | 24.42 | 119,335.62 | 25.65 | 36.51 |

Control Strategy³

| Year | VMT | Speed | VOC | CO | NO _x | SO ₂ | NH ₃ | CO ₂ | PM _{2.5} | PM ₁₀ |
|------|-------------|-------|-------|--------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| 2017 | 173,533,549 | 34.63 | 48.53 | 913.01 | 99.11 | 1.08 | 5.01 | 96,167.69 | 3.95 | 11.85 |
| 2018 | 178,967,556 | 37.72 | 45.03 | 861.23 | 92.17 | 1.12 | 4.99 | 95,767.64 | 3.60 | 10.77 |
| 2020 | 187,942,688 | 37.56 | 39.14 | 812.98 | 74.87 | 0.58 | 4.91 | 96,275.67 | 3.01 | 10.53 |
| 2023 | 199,141,361 | 37.49 | 33.85 | 724.71 | 59.45 | 0.57 | 4.97 | 94,947.26 | 2.62 | 10.58 |
| 2026 | 208,706,310 | 37.19 | 28.98 | 643.75 | 49.08 | 0.55 | 5.06 | 92,682.63 | 2.43 | 10.87 |
| 2027 | 211,938,550 | 37.07 | 27.98 | 621.01 | 47.31 | 0.55 | 5.11 | 92,046.58 | 2.40 | 11.01 |

¹ Base year inventory: 2011 activity inputs and 2011 current control strategy emission rates.

² Pre-1990 controls inventories: analysis year activity inputs and analysis year pre-1990 controls emission rates. Rates are for analysis year fleet but exclude post-1990 CAAA controls – no I/M program, no post-1990 FMVCP effects, no RFG (instead uses pre-1992 conventional gasoline with 1992 summer RVP limit promulgated prior to the enactment of the 1990 CAAA), and no TxLED.

³ Control strategy inventories: analysis year activity inputs and analysis year control strategy emission rates. Rates include effects of control strategies for analysis year (i.e., both pre- and post-1990 FMVCP, Tier 3 RFG and Ultra Low Sulfur Diesel, I/M [depending on county], and TxLED).

Table 28. HGB Eight-County Area Summer Weekday RFP Control Scenario Inventories and VOC Reductions (Tons) by Analysis Year.

| VOC Emissions Analysis | 2011 | 2017 | 2018 | 2020 | 2023 | 2026 | 2027 |
|---|-------|--------|--------|--------|--------|--------|--------|
| Pre-90 Control Inventory | - | 619.10 | 609.63 | 641.98 | 680.43 | 716.68 | 729.07 |
| Control Strategy Inventory | 84.12 | 48.53 | 45.03 | 39.14 | 33.85 | 28.98 | 27.98 |
| Total Reductions | - | 570.56 | 564.60 | 602.84 | 646.58 | 687.70 | 701.09 |
| FMVCP Reductions | - | 554.73 | 550.59 | 589.50 | 635.40 | 677.98 | 691.79 |
| Tier 3 RFG and ULSD ¹ Reductions | - | 10.81 | 9.34 | 9.01 | 7.04 | 5.65 | 5.22 |
| I/M Reductions | - | 5.02 | 4.66 | 4.34 | 4.13 | 4.08 | 4.08 |
| TxLED Reductions | - | - | - | - | - | - | - |

¹ RFG with Tier 3 sulfur and pre-1990 diesel replaced with Ultra Low Sulfur Diesel.

Notes: Columns may not total due to rounding, and "-" = "not applicable".

Table 29. HGB Eight-County Area Summer Weekday RFP Control Scenario Inventories and NO_x Reductions (Tons) by Analysis Year.

| NO _x Emissions Analysis | 2011 | 2017 | 2018 | 2020 | 2023 | 2026 | 2027 |
|---|--------|----------|----------|----------|----------|----------|----------|
| Pre-90 Control Inventory | - | 1,047.74 | 1,081.45 | 1,138.21 | 1,205.41 | 1,264.15 | 1,284.15 |
| Control Strategy Inventory | 179.34 | 99.11 | 92.17 | 74.87 | 59.45 | 49.08 | 47.31 |
| Total Reductions | - | 948.63 | 989.28 | 1,063.33 | 1,145.96 | 1,215.07 | 1,236.83 |
| FMVCP Reductions | - | 907.99 | 953.12 | 1,030.35 | 1,122.54 | 1,197.68 | 1,220.91 |
| Tier 3 RFG and ULSD ¹ Reductions | - | 32.30 | 28.80 | 27.55 | 19.48 | 14.18 | 12.86 |
| I/M Reductions | - | 5.37 | 4.52 | 2.90 | 1.84 | 1.36 | 1.25 |
| TxLED Reductions | - | 2.97 | 2.84 | 2.53 | 2.10 | 1.85 | 1.81 |

¹ RFG with Tier 3 sulfur and pre-1990 diesel replaced with Ultra Low Sulfur Diesel.

Notes: Columns may not total due to rounding, and "-" = "not applicable".

4.3 XML-FORMATTED 24-HOUR SUMMARIES FOR TEXAER

TTI further post-processed the 24-hour summer weekday control strategy scenario SCC-labeled inventory output for each analysis year, using the TTI's XML formatting utility, into the NEI Emissions Inventory System (EIS) Consolidated Emissions Reporting Schema (CERS) XML format for inclusion in TCEQ's TexAER database.

The tab-delimited SCC-based inventory data files output by the utility were produced for direct input to the XML utility using inventory data aggregation and coding (SCCs and pollutant codes) consistent with EPA's latest (2020) NEI, as required for

compatibility with TexAER. The current NEI SCC codes are aggregations of the more detailed MOVES SCC codes, providing the total emissions for each valid NEI pollutant by source type and fuel type (e.g., for on-road, by pollutant, the total of all roadway-based and off-network processes, excluding refueling).

The on-road EI XML summaries include VOC, CO, NO_x, SO₂, NH₃, CO₂, PM_{2.5}, and PM₁₀ (PMs are aggregate of exhaust, tirewear, and brakewear). Each run produced an XML file and one tab-delimited SCC-labeled inventory summary per county included in the run. Further details may be found in Appendix B.

5.0 QUALITY ASSURANCE

Analyses and results were subjected to appropriate internal review and quality assurance (QA)/quality control (QC) procedures, including independent verification and reasonableness checks. All work was completed consistent with applicable elements of American Society for Quality, American National Standard (ASQ/ANSI): E4:2014: *Quality Management Systems for Environmental Information and Technology Programs – Requirements with Guidance for Use*, February 2014, and the TCEQ Quality Management Plan.

The Quality Assurance Project Plans (QAPP) category and project type most closely matching the intended use of this analysis are QAPP Category II (for important, highly visible Agency projects involving areas such as supporting the development of environmental regulations or standards) and Modeling for NAAQS Compliance. Internal review and quality control measures consistent with the QA category and project type-specific requirements provided in Guidance for Quality Assurance Project Plans for Modeling, EPA QA/G-5M,²⁶ along with appropriate audits or assessments of data and reporting of findings, were employed. These include but are not limited to the elements outlined, per EPA Requirements for Quality Assurance Project Plans (EPA QA/R-5),²⁷ in the following description.

5.1 PROJECT MANAGEMENT

The definition and background of the problem addressed by this project, the project/task description, and project documents and records produced are as described previously in the Purpose and Background sections of the Grant Activity Description (GAD). No special training or certifications were required. The TTI project manager assured that the appropriate project personnel had and used the most current, approved version of the QAPP.

The objective was to produce the emissions inventory product of the quality suited to its purpose as specified (i.e., inventories needed to support RFP analyses), in accordance with the appropriate guidance and methods documents as referenced, and in consultation with the TCEQ project manager.

Basic criteria were used to assure the acceptable quality of the product, including the following.

²⁶ PDF available at: <https://www.epa.gov/sites/production/files/2015-06/documents/g5m-final.pdf>.

²⁷ PDF available at: https://www.epa.gov/sites/production/files/2016-06/documents/r5-final_0.pdf.

- The product met the purpose of the emissions analysis.
- The full extent of the modeling domain was included.
- Agreed methods, models, tools, and data were used.
- The output data sets were produced in required formats.
- Any deficiencies found (as discussed in Section 5.5) were corrected.
- Aggregate results were comparable with available, similarly produced emissions estimates.

5.2 MEASUREMENT AND DATA ACQUISITION

Note that no sampling of data was involved in the EI development; thus, only existing data (non-direct measurements) were used for this project.

The data needed for project implementation was for the development of emission rate model inputs and adjustment factors and the development of the activity inputs for external emissions calculations. Existing data acquired from various organizations (e.g., TxDOT, MPOs, TCEQ, EPA) was reviewed by TTI for suitability, and in most cases was previously QA'd by the providing agency. These data sets may include HPMS data (from TxDOT's Roadway Inventory Functional Classification Record [RIFCREC] report); regional travel demand model data; speed model data; vehicle registration data; ATR data; vehicle classification count data; meteorological data; fuels data; MOVES emissions model data; extended idling activity data; and vehicle I/M program design data.

Any significant problems found during the review, verification, and/or validation (see QA criteria and methods discussed in Section 5.5) were corrected, and the QA procedure was repeated until satisfied. No significant problems were found.

5.3 DATA MANAGEMENT

The project team used the same electronic project folder structure on each individual workstation. As various scripts, inputs, and outputs were developed in the process, data were shared within the team for crosschecking. To perform the MOVES model runs, a computer cluster (multiple computers) configuration or individual workstation configuration was used. After input data were QA'd, data sets were backed up and stored in compressed files.

After the final product was completed, all the project data was archived onto a local or an external drive. A complete archive of the project data is kept by TTI (the computer models and EI development utilities used in the process included). The electronic data

submittal package (containing the project deliverables as listed in Appendix B) was produced along with data description (and copied to a shared folder and/or external hard drive) and delivered to TCEQ.

5.4 ASSESSMENT AND OVERSIGHT

The following assessments were performed.

- Verified that the overall scope was met (i.e., consistent with the intended purpose, for specified temporal resolution and geographic coverage, for specified sources, pollutants, and emissions processes).
- Checked that input data was prepared according to the plan.
- Checked that correct output data was produced. Records were kept of the checks performed.

In the case of any inconsistency or deficiency found, the issue was directly communicated to responsible staff for correction (or outside agency staff involved, if any). After any correction, QA checks were repeated to assure the additional work resulted in the intended result and were noted in the QA record.

Any major problems were reported to the project manager and communicated to the project team as needed, as well as when various data elements passed QA checks and were ready next steps. The project manager ensured all of the QA checks performed were compiled and maintained in the project archives.

In addition, technical systems audits were performed. Audits of data quality at the requisite 25 percent level were performed for any data produced as part of this study. QA findings were reported in both the draft and the final reports.

5.5 DATA VALIDATION AND USABILITY

Erroneous or improper inputs at any point during the EI development process may produce inaccurate emissions estimates. The TTI project team performed QA checks at each step of the analysis to ensure data quality.

The criteria for passing quality checks are summarized in the following. These QA guidelines were used to ensure the development of EIs that were as accurate as possible and met the requirements of TCEQ's intended use.

As previously stated, TTI verified the overall scope of the emissions analysis to include:

- Purpose (i.e., needed for RFP SIP analysis).
- Modeling domain (e.g., analysis years, geographic coverage, seasonal periods, days, sources, pollutants).
- Methods, models, and data (e.g., default versus local input data sources).
- Procedures, tools, and required emissions output data sets.

TTI performed checks on input data, model execution, and output, as follows:

- Input data preparation:
 - The basis of input data sets as planned (e.g., actual, historical, latest available, validated model); aggregation levels.
 - Depending on the procedure and input data set, verification of calculations.
 - Use of correct data dimensions, fields, coding, labeling, formats; distributions sum to 1.0 where appropriate.
 - Reasonability checks: (discussed in the next section).
 - External data sources quality assurance verification.
- Model or utility execution:
 - Correct number of utility or model run input files per application.
 - Utility control or model run specifications verification (e.g., per the applicable user guide, correct inputs, output options).
- Output:
 - Correct output files by type and quantity.
 - Expected output file sizes.
 - Warnings and errors (e.g., checks of any written to output run logs).
 - Required data, proper coding/labeling, formats.
 - Assessment of any unusual results.

TTI performed further checks for consistency, completeness, and reasonability of data output from model or utility applications.

- Any activity, emission rate, or emissions adjustments were performed as intended.
- Noted whether directional differences were as expected (e.g., between scenarios with temporal or geographic variation).
- Checked for consistency (e.g., input data control totals versus output summaries, utility raw results versus post-processed results).
- Compared results to results from previous similar analyses where available.

Any additional data products required for the emissions analysis were subjected to the appropriate QA checks previously listed. Any issues found needing resolution were corrected, and appropriate QA checks were performed until satisfied, ensuring the project results met TCEQ requirements, i.e., as outlined in the GAD and QAPP.

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APPENDIX A: EMISSIONS ESTIMATION UTILITIES FOR MOVES-BASED EMISSIONS INVENTORIES (ELECTRONIC ONLY)

This appendix is available separately in an electronic format (e.g., .docx, .xlsx, .pdf, .txt, .zip, or other format) and can be provided upon request.

APPENDIX B: HGB RFP ON-ROAD INVENTORIES ELECTRONIC DATA SUBMITTAL (ELECTRONIC ONLY)

This appendix is available separately in an electronic format (e.g., .docx, .xlsx, .pdf, .txt, .zip, or other format) and can be provided upon request.

APPENDIX C: TXDOT DISTRICT VMT MIX BY DAY-OF-WEEK

VMT Mix Year/Analysis Year Correlations

| VMT Mix Year | Analysis Years |
|--------------|-------------------|
| 2000 | 1998 through 2002 |
| 2005 | 2003 through 2007 |
| 2010 | 2008 through 2012 |
| 2015 | 2013 through 2017 |
| 2020 | 2018 through 2022 |
| 2025 | 2023 through 2027 |
| 2030 | 2028 through 2032 |

TxDOT District/HGB Counties

| TxDOT District | District Code | HGB County | County FIPS |
|----------------|---------------|------------|-------------|
| Beaumont | D05 | Chambers | 48071 |
| Beaumont | D05 | Liberty | 48291 |
| Houston | D13 | Brazoria | 48039 |
| Houston | D13 | Fort Bend | 48157 |
| Houston | D13 | Galveston | 48167 |
| Houston | D13 | Harris | 48201 |
| Houston | D13 | Montgomery | 48339 |
| Houston | D13 | Waller | 48473 |

VMT Mix Year/Analysis Year Correlations

| Roadway Type | Roadway Code |
|--------------------|--------------|
| Rural Restricted | RT2 |
| Rural Unrestricted | RT3 |
| Urban Restricted | RT4 |
| Urban Unrestricted | RT5 |

2010 Weekday VMT Mix – Beaumont TxDOT District (2011 Activity Scenario)

| SUT/FT | AM Peak RT2 | AM Peak RT3 | AM Peak RT4 | AM Peak RT5 | Mid-Day RT2 | Mid-Day RT3 | Mid-Day RT4 | Mid-Day RT5 | PM Peak RT2 | PM Peak RT3 | PM Peak RT4 | PM Peak RT5 | Over-night RT2 | Over-night RT3 | Over-night RT4 | Over-night RT5 |
|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|
| 11_G | 0.00054 | 0.00052 | 0.00055 | 0.00067 | 0.00049 | 0.00051 | 0.00053 | 0.00064 | 0.00049 | 0.00057 | 0.00056 | 0.00069 | 0.00041 | 0.00054 | 0.00049 | 0.00069 |
| 21_G | 0.53243 | 0.52124 | 0.55050 | 0.66948 | 0.48581 | 0.50751 | 0.53206 | 0.63531 | 0.48467 | 0.56704 | 0.55371 | 0.68693 | 0.40848 | 0.54097 | 0.48659 | 0.68481 |
| 21_D | 0.00214 | 0.00209 | 0.00221 | 0.00269 | 0.00195 | 0.00204 | 0.00214 | 0.00255 | 0.00195 | 0.00228 | 0.00222 | 0.00276 | 0.00164 | 0.00217 | 0.00195 | 0.00275 |
| 31_G | 0.22657 | 0.26272 | 0.20155 | 0.21983 | 0.22483 | 0.26388 | 0.19155 | 0.23704 | 0.22946 | 0.26963 | 0.19385 | 0.22499 | 0.20153 | 0.24835 | 0.15558 | 0.21579 |
| 31_D | 0.00322 | 0.00373 | 0.00286 | 0.00312 | 0.00319 | 0.00375 | 0.00272 | 0.00337 | 0.00326 | 0.00383 | 0.00275 | 0.00319 | 0.00286 | 0.00353 | 0.00221 | 0.00306 |
| 32_G | 0.05646 | 0.06547 | 0.05022 | 0.05478 | 0.05602 | 0.06575 | 0.04773 | 0.05907 | 0.05718 | 0.06719 | 0.04831 | 0.05606 | 0.05022 | 0.06189 | 0.03877 | 0.05377 |
| 32_D | 0.00316 | 0.00366 | 0.00281 | 0.00307 | 0.00314 | 0.00368 | 0.00267 | 0.00331 | 0.00320 | 0.00376 | 0.00270 | 0.00314 | 0.00281 | 0.00346 | 0.00217 | 0.00301 |
| 41_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 41_D | 0.00095 | 0.00353 | 0.00136 | 0.00245 | 0.00055 | 0.00192 | 0.00142 | 0.00195 | 0.00071 | 0.00066 | 0.00117 | 0.00165 | 0.00094 | 0.00064 | 0.00169 | 0.00142 |
| 42_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 42_D | 0.00039 | 0.00146 | 0.00056 | 0.00101 | 0.00023 | 0.00079 | 0.00058 | 0.00080 | 0.00029 | 0.00027 | 0.00048 | 0.00068 | 0.00039 | 0.00026 | 0.00069 | 0.00059 |
| 43_G | 0.00001 | 0.00005 | 0.00002 | 0.00003 | 0.00001 | 0.00002 | 0.00002 | 0.00003 | 0.00001 | 0.00001 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00002 | 0.00002 |
| 43_D | 0.00122 | 0.00454 | 0.00175 | 0.00315 | 0.00071 | 0.00247 | 0.00182 | 0.00251 | 0.00091 | 0.00084 | 0.00151 | 0.00212 | 0.00120 | 0.00083 | 0.00217 | 0.00183 |
| 51_G | 0.00048 | 0.00075 | 0.00049 | 0.00041 | 0.00052 | 0.00080 | 0.00058 | 0.00056 | 0.00036 | 0.00053 | 0.00041 | 0.00020 | 0.00057 | 0.00055 | 0.00046 | 0.00030 |
| 51_D | 0.00086 | 0.00133 | 0.00087 | 0.00072 | 0.00092 | 0.00142 | 0.00104 | 0.00100 | 0.00064 | 0.00094 | 0.00073 | 0.00036 | 0.00101 | 0.00099 | 0.00082 | 0.00054 |
| 52_G | 0.01056 | 0.01632 | 0.01064 | 0.00887 | 0.01132 | 0.01739 | 0.01272 | 0.01225 | 0.00786 | 0.01156 | 0.00898 | 0.00435 | 0.01241 | 0.01209 | 0.01009 | 0.00666 |
| 52_D | 0.01886 | 0.02915 | 0.01899 | 0.01584 | 0.02022 | 0.03105 | 0.02271 | 0.02187 | 0.01404 | 0.02064 | 0.01604 | 0.00777 | 0.02216 | 0.02159 | 0.01801 | 0.01190 |
| 53_G | 0.00037 | 0.00057 | 0.00037 | 0.00031 | 0.00040 | 0.00061 | 0.00045 | 0.00043 | 0.00028 | 0.00041 | 0.00032 | 0.00015 | 0.00044 | 0.00043 | 0.00036 | 0.00023 |
| 53_D | 0.00066 | 0.00103 | 0.00067 | 0.00056 | 0.00071 | 0.00109 | 0.00080 | 0.00077 | 0.00049 | 0.00073 | 0.00056 | 0.00027 | 0.00078 | 0.00076 | 0.00063 | 0.00042 |
| 54_G | 0.00037 | 0.00056 | 0.00037 | 0.00031 | 0.00039 | 0.00060 | 0.00044 | 0.00042 | 0.00027 | 0.00040 | 0.00031 | 0.00015 | 0.00043 | 0.00042 | 0.00035 | 0.00023 |
| 54_D | 0.00065 | 0.00101 | 0.00066 | 0.00055 | 0.00070 | 0.00107 | 0.00079 | 0.00076 | 0.00049 | 0.00071 | 0.00055 | 0.00027 | 0.00077 | 0.00075 | 0.00062 | 0.00041 |
| 61_G | 0.00296 | 0.00169 | 0.00322 | 0.00026 | 0.00397 | 0.00198 | 0.00374 | 0.00032 | 0.00408 | 0.00101 | 0.00348 | 0.00009 | 0.00614 | 0.00211 | 0.00583 | 0.00024 |
| 61_D | 0.02955 | 0.01693 | 0.03217 | 0.00256 | 0.03962 | 0.01974 | 0.03738 | 0.00324 | 0.04079 | 0.01013 | 0.03476 | 0.00090 | 0.06136 | 0.02104 | 0.05827 | 0.00244 |
| 62_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 62_D | 0.10760 | 0.06164 | 0.11715 | 0.00933 | 0.14430 | 0.07191 | 0.13612 | 0.01181 | 0.14856 | 0.03688 | 0.12657 | 0.00326 | 0.22345 | 0.07663 | 0.21222 | 0.00888 |

2010 Weekday VMT Mix – Houston TxDOT District (2011 Activity Scenario)

| SUT/FT | AM Peak RT2 | AM Peak RT3 | AM Peak RT4 | AM Peak RT5 | Mid-Day RT2 | Mid-Day RT3 | Mid-Day RT4 | Mid-Day RT5 | PM Peak RT2 | PM Peak RT3 | PM Peak RT4 | PM Peak RT5 | Over-night RT2 | Over-night RT3 | Over-night RT4 | Over-night RT5 |
|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|
| 11_G | 0.00072 | 0.00065 | 0.00071 | 0.00073 | 0.00053 | 0.00058 | 0.00066 | 0.00068 | 0.00069 | 0.00066 | 0.00072 | 0.00074 | 0.00065 | 0.00068 | 0.00071 | 0.00074 |
| 21_G | 0.71351 | 0.64458 | 0.70404 | 0.72626 | 0.52937 | 0.57402 | 0.65990 | 0.68121 | 0.68227 | 0.65913 | 0.71222 | 0.74004 | 0.64239 | 0.67728 | 0.70899 | 0.73657 |
| 21_D | 0.00287 | 0.00259 | 0.00283 | 0.00292 | 0.00213 | 0.00231 | 0.00265 | 0.00274 | 0.00274 | 0.00265 | 0.00286 | 0.00297 | 0.00258 | 0.00272 | 0.00285 | 0.00296 |
| 31_G | 0.18248 | 0.20802 | 0.18296 | 0.17773 | 0.15530 | 0.22683 | 0.19178 | 0.19089 | 0.16609 | 0.22166 | 0.18456 | 0.17487 | 0.19602 | 0.19104 | 0.16234 | 0.16268 |
| 31_D | 0.00259 | 0.00295 | 0.00260 | 0.00252 | 0.00221 | 0.00322 | 0.00272 | 0.00271 | 0.00236 | 0.00315 | 0.00262 | 0.00248 | 0.00278 | 0.00271 | 0.00231 | 0.00231 |
| 32_G | 0.04547 | 0.05183 | 0.04559 | 0.04429 | 0.03870 | 0.05652 | 0.04779 | 0.04757 | 0.04139 | 0.05523 | 0.04599 | 0.04358 | 0.04885 | 0.04760 | 0.04045 | 0.04054 |
| 32_D | 0.00254 | 0.00290 | 0.00255 | 0.00248 | 0.00217 | 0.00316 | 0.00267 | 0.00266 | 0.00232 | 0.00309 | 0.00257 | 0.00244 | 0.00273 | 0.00266 | 0.00226 | 0.00227 |
| 41_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 41_D | 0.00185 | 0.00144 | 0.00141 | 0.00143 | 0.00056 | 0.00094 | 0.00089 | 0.00098 | 0.00008 | 0.00043 | 0.00102 | 0.00051 | 0.00185 | 0.00053 | 0.00100 | 0.00047 |
| 42_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 42_D | 0.00076 | 0.00059 | 0.00058 | 0.00059 | 0.00023 | 0.00039 | 0.00037 | 0.00040 | 0.00003 | 0.00018 | 0.00042 | 0.00021 | 0.00076 | 0.00022 | 0.00041 | 0.00020 |
| 43_G | 0.00002 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00000 | 0.00001 | 0.00001 | 0.00001 | 0.00002 | 0.00001 | 0.00001 | 0.00001 |
| 43_D | 0.00238 | 0.00185 | 0.00181 | 0.00184 | 0.00072 | 0.00121 | 0.00114 | 0.00126 | 0.00010 | 0.00056 | 0.00131 | 0.00066 | 0.00238 | 0.00069 | 0.00128 | 0.00061 |
| 51_G | 0.00037 | 0.00077 | 0.00056 | 0.00045 | 0.00107 | 0.00111 | 0.00085 | 0.00074 | 0.00044 | 0.00055 | 0.00041 | 0.00036 | 0.00053 | 0.00058 | 0.00042 | 0.00035 |
| 51_D | 0.00036 | 0.00073 | 0.00053 | 0.00043 | 0.00101 | 0.00105 | 0.00081 | 0.00070 | 0.00042 | 0.00052 | 0.00039 | 0.00034 | 0.00050 | 0.00055 | 0.00040 | 0.00033 |
| 52_G | 0.00739 | 0.01515 | 0.01095 | 0.00896 | 0.02103 | 0.02181 | 0.01681 | 0.01462 | 0.00877 | 0.01087 | 0.00813 | 0.00703 | 0.01040 | 0.01136 | 0.00826 | 0.00687 |
| 52_D | 0.00702 | 0.01438 | 0.01040 | 0.00851 | 0.01996 | 0.02070 | 0.01596 | 0.01388 | 0.00833 | 0.01032 | 0.00772 | 0.00667 | 0.00987 | 0.01079 | 0.00784 | 0.00653 |
| 53_G | 0.00109 | 0.00224 | 0.00162 | 0.00133 | 0.00311 | 0.00323 | 0.00249 | 0.00217 | 0.00130 | 0.00161 | 0.00120 | 0.00104 | 0.00154 | 0.00168 | 0.00122 | 0.00102 |
| 53_D | 0.00104 | 0.00213 | 0.00154 | 0.00126 | 0.00296 | 0.00307 | 0.00236 | 0.00206 | 0.00123 | 0.00153 | 0.00114 | 0.00099 | 0.00146 | 0.00160 | 0.00116 | 0.00097 |
| 54_G | 0.00028 | 0.00058 | 0.00042 | 0.00034 | 0.00081 | 0.00084 | 0.00064 | 0.00056 | 0.00034 | 0.00042 | 0.00031 | 0.00027 | 0.00040 | 0.00044 | 0.00032 | 0.00026 |
| 54_D | 0.00027 | 0.00055 | 0.00040 | 0.00033 | 0.00077 | 0.00079 | 0.00061 | 0.00053 | 0.00032 | 0.00040 | 0.00030 | 0.00026 | 0.00038 | 0.00041 | 0.00030 | 0.00025 |
| 61_G | 0.00050 | 0.00085 | 0.00053 | 0.00033 | 0.00403 | 0.00145 | 0.00091 | 0.00062 | 0.00150 | 0.00050 | 0.00048 | 0.00027 | 0.00137 | 0.00086 | 0.00107 | 0.00063 |
| 61_D | 0.00576 | 0.00983 | 0.00608 | 0.00375 | 0.04639 | 0.01669 | 0.01043 | 0.00718 | 0.01724 | 0.00577 | 0.00557 | 0.00310 | 0.01577 | 0.00992 | 0.01227 | 0.00727 |
| 62_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 62_D | 0.02072 | 0.03536 | 0.02189 | 0.01351 | 0.16693 | 0.06007 | 0.03753 | 0.02583 | 0.06203 | 0.02077 | 0.02003 | 0.01117 | 0.05676 | 0.03568 | 0.04414 | 0.02617 |

2015 Weekday VMT Mix – Beaumont TxDOT District (2017 Activity Scenario)

| SUT/FT | AM Peak RT2 | AM Peak RT3 | AM Peak RT4 | AM Peak RT5 | Mid-Day RT2 | Mid-Day RT3 | Mid-Day RT4 | Mid-Day RT5 | PM Peak RT2 | PM Peak RT3 | PM Peak RT4 | PM Peak RT5 | Over-night RT2 | Over-night RT3 | Over-night RT4 | Over-night RT5 |
|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|
| 11_G | 0.00054 | 0.00052 | 0.00055 | 0.00067 | 0.00049 | 0.00051 | 0.00053 | 0.00064 | 0.00049 | 0.00057 | 0.00056 | 0.00069 | 0.00041 | 0.00054 | 0.00049 | 0.00069 |
| 21_G | 0.53082 | 0.51967 | 0.54885 | 0.66747 | 0.48435 | 0.50598 | 0.53046 | 0.63339 | 0.48321 | 0.56533 | 0.55205 | 0.68486 | 0.40725 | 0.53934 | 0.48513 | 0.68275 |
| 21_D | 0.00374 | 0.00366 | 0.00387 | 0.00471 | 0.00341 | 0.00357 | 0.00374 | 0.00447 | 0.00341 | 0.00399 | 0.00389 | 0.00483 | 0.00287 | 0.00380 | 0.00342 | 0.00481 |
| 31_G | 0.22719 | 0.26345 | 0.20210 | 0.22044 | 0.22545 | 0.26461 | 0.19207 | 0.23769 | 0.23009 | 0.27037 | 0.19439 | 0.22561 | 0.20209 | 0.24904 | 0.15601 | 0.21638 |
| 31_D | 0.00346 | 0.00401 | 0.00308 | 0.00336 | 0.00343 | 0.00403 | 0.00292 | 0.00362 | 0.00350 | 0.00412 | 0.00296 | 0.00344 | 0.00308 | 0.00379 | 0.00238 | 0.00330 |
| 32_G | 0.05569 | 0.06458 | 0.04954 | 0.05404 | 0.05527 | 0.06487 | 0.04708 | 0.05827 | 0.05640 | 0.06628 | 0.04765 | 0.05531 | 0.04954 | 0.06105 | 0.03824 | 0.05304 |
| 32_D | 0.00305 | 0.00354 | 0.00272 | 0.00296 | 0.00303 | 0.00356 | 0.00258 | 0.00320 | 0.00309 | 0.00364 | 0.00261 | 0.00303 | 0.00272 | 0.00335 | 0.00210 | 0.00291 |
| 41_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 41_D | 0.00030 | 0.00112 | 0.00043 | 0.00078 | 0.00018 | 0.00061 | 0.00045 | 0.00062 | 0.00023 | 0.00021 | 0.00037 | 0.00052 | 0.00030 | 0.00020 | 0.00053 | 0.00045 |
| 42_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 42_D | 0.00060 | 0.00224 | 0.00087 | 0.00155 | 0.00035 | 0.00122 | 0.00090 | 0.00124 | 0.00045 | 0.00042 | 0.00074 | 0.00104 | 0.00059 | 0.00041 | 0.00107 | 0.00090 |
| 43_G | 0.00002 | 0.00006 | 0.00002 | 0.00004 | 0.00001 | 0.00003 | 0.00002 | 0.00003 | 0.00001 | 0.00001 | 0.00002 | 0.00003 | 0.00002 | 0.00001 | 0.00003 | 0.00003 |
| 43_D | 0.00165 | 0.00615 | 0.00238 | 0.00426 | 0.00096 | 0.00335 | 0.00247 | 0.00340 | 0.00124 | 0.00114 | 0.00204 | 0.00287 | 0.00163 | 0.00112 | 0.00294 | 0.00248 |
| 51_G | 0.00049 | 0.00076 | 0.00050 | 0.00042 | 0.00053 | 0.00081 | 0.00060 | 0.00057 | 0.00037 | 0.00054 | 0.00042 | 0.00020 | 0.00058 | 0.00057 | 0.00047 | 0.00031 |
| 51_D | 0.00088 | 0.00137 | 0.00089 | 0.00074 | 0.00095 | 0.00145 | 0.00106 | 0.00102 | 0.00066 | 0.00097 | 0.00075 | 0.00036 | 0.00104 | 0.00101 | 0.00084 | 0.00056 |
| 52_G | 0.01053 | 0.01627 | 0.01060 | 0.00884 | 0.01129 | 0.01733 | 0.01268 | 0.01221 | 0.00784 | 0.01152 | 0.00895 | 0.00434 | 0.01237 | 0.01205 | 0.01005 | 0.00664 |
| 52_D | 0.01880 | 0.02905 | 0.01893 | 0.01579 | 0.02015 | 0.03095 | 0.02263 | 0.02180 | 0.01399 | 0.02057 | 0.01599 | 0.00775 | 0.02209 | 0.02152 | 0.01795 | 0.01186 |
| 53_G | 0.00037 | 0.00057 | 0.00037 | 0.00031 | 0.00040 | 0.00061 | 0.00045 | 0.00043 | 0.00028 | 0.00041 | 0.00032 | 0.00015 | 0.00044 | 0.00042 | 0.00035 | 0.00023 |
| 53_D | 0.00066 | 0.00102 | 0.00067 | 0.00056 | 0.00071 | 0.00109 | 0.00080 | 0.00077 | 0.00049 | 0.00072 | 0.00056 | 0.00027 | 0.00078 | 0.00076 | 0.00063 | 0.00042 |
| 54_G | 0.00039 | 0.00060 | 0.00039 | 0.00033 | 0.00042 | 0.00064 | 0.00047 | 0.00045 | 0.00029 | 0.00043 | 0.00033 | 0.00016 | 0.00046 | 0.00045 | 0.00037 | 0.00025 |
| 54_D | 0.00069 | 0.00107 | 0.00070 | 0.00058 | 0.00074 | 0.00114 | 0.00084 | 0.00080 | 0.00052 | 0.00076 | 0.00059 | 0.00029 | 0.00082 | 0.00079 | 0.00066 | 0.00044 |
| 61_G | 0.00296 | 0.00169 | 0.00322 | 0.00026 | 0.00397 | 0.00198 | 0.00374 | 0.00032 | 0.00408 | 0.00101 | 0.00348 | 0.00009 | 0.00614 | 0.00211 | 0.00583 | 0.00024 |
| 61_D | 0.02955 | 0.01693 | 0.03217 | 0.00256 | 0.03962 | 0.01974 | 0.03738 | 0.00324 | 0.04079 | 0.01013 | 0.03476 | 0.00090 | 0.06136 | 0.02104 | 0.05827 | 0.00244 |
| 62_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 62_D | 0.10760 | 0.06164 | 0.11715 | 0.00933 | 0.14430 | 0.07191 | 0.13612 | 0.01181 | 0.14856 | 0.03688 | 0.12657 | 0.00326 | 0.22345 | 0.07663 | 0.21222 | 0.00888 |

2015 Weekday VMT Mix – Houston TxDOT District (2017 Activity Scenario)

| SUT/FT | AM Peak RT2 | AM Peak RT3 | AM Peak RT4 | AM Peak RT5 | Mid-Day RT2 | Mid-Day RT3 | Mid-Day RT4 | Mid-Day RT5 | PM Peak RT2 | PM Peak RT3 | PM Peak RT4 | PM Peak RT5 | Over-night RT2 | Over-night RT3 | Over-night RT4 | Over-night RT5 |
|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|
| 11_G | 0.00072 | 0.00065 | 0.00071 | 0.00073 | 0.00053 | 0.00058 | 0.00066 | 0.00068 | 0.00069 | 0.00066 | 0.00072 | 0.00074 | 0.00065 | 0.00068 | 0.00071 | 0.00074 |
| 21_G | 0.71136 | 0.64264 | 0.70192 | 0.72407 | 0.52778 | 0.57229 | 0.65791 | 0.67916 | 0.68022 | 0.65715 | 0.71007 | 0.73781 | 0.64045 | 0.67524 | 0.70685 | 0.73435 |
| 21_D | 0.00501 | 0.00453 | 0.00495 | 0.00510 | 0.00372 | 0.00403 | 0.00464 | 0.00479 | 0.00480 | 0.00463 | 0.00501 | 0.00520 | 0.00451 | 0.00476 | 0.00498 | 0.00518 |
| 31_G | 0.18280 | 0.20838 | 0.18327 | 0.17804 | 0.15557 | 0.22723 | 0.19212 | 0.19122 | 0.16638 | 0.22204 | 0.18488 | 0.17518 | 0.19636 | 0.19137 | 0.16262 | 0.16296 |
| 31_D | 0.00297 | 0.00339 | 0.00298 | 0.00289 | 0.00253 | 0.00369 | 0.00312 | 0.00311 | 0.00271 | 0.00361 | 0.00301 | 0.00285 | 0.00319 | 0.00311 | 0.00264 | 0.00265 |
| 32_G | 0.04486 | 0.05113 | 0.04497 | 0.04369 | 0.03818 | 0.05576 | 0.04714 | 0.04692 | 0.04083 | 0.05449 | 0.04537 | 0.04299 | 0.04819 | 0.04696 | 0.03991 | 0.03999 |
| 32_D | 0.00246 | 0.00280 | 0.00247 | 0.00240 | 0.00209 | 0.00306 | 0.00259 | 0.00257 | 0.00224 | 0.00299 | 0.00249 | 0.00236 | 0.00264 | 0.00258 | 0.00219 | 0.00219 |
| 41_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 41_D | 0.00059 | 0.00046 | 0.00045 | 0.00045 | 0.00018 | 0.00030 | 0.00028 | 0.00031 | 0.00003 | 0.00014 | 0.00032 | 0.00016 | 0.00059 | 0.00017 | 0.00032 | 0.00015 |
| 42_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 42_D | 0.00118 | 0.00091 | 0.00089 | 0.00091 | 0.00036 | 0.00060 | 0.00056 | 0.00062 | 0.00005 | 0.00027 | 0.00065 | 0.00033 | 0.00117 | 0.00034 | 0.00063 | 0.00030 |
| 43_G | 0.00003 | 0.00003 | 0.00002 | 0.00003 | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00000 | 0.00001 | 0.00002 | 0.00001 | 0.00003 | 0.00001 | 0.00002 | 0.00001 |
| 43_D | 0.00323 | 0.00251 | 0.00246 | 0.00250 | 0.00098 | 0.00164 | 0.00154 | 0.00170 | 0.00014 | 0.00075 | 0.00178 | 0.00089 | 0.00322 | 0.00093 | 0.00174 | 0.00082 |
| 51_G | 0.00038 | 0.00079 | 0.00057 | 0.00047 | 0.00109 | 0.00113 | 0.00087 | 0.00076 | 0.00046 | 0.00056 | 0.00042 | 0.00037 | 0.00054 | 0.00059 | 0.00043 | 0.00036 |
| 51_D | 0.00036 | 0.00075 | 0.00054 | 0.00044 | 0.00104 | 0.00108 | 0.00083 | 0.00072 | 0.00043 | 0.00054 | 0.00040 | 0.00035 | 0.00051 | 0.00056 | 0.00041 | 0.00034 |
| 52_G | 0.00737 | 0.01510 | 0.01092 | 0.00893 | 0.02096 | 0.02174 | 0.01676 | 0.01457 | 0.00874 | 0.01083 | 0.00811 | 0.00700 | 0.01037 | 0.01133 | 0.00823 | 0.00685 |
| 52_D | 0.00699 | 0.01433 | 0.01036 | 0.00848 | 0.01990 | 0.02064 | 0.01591 | 0.01383 | 0.00830 | 0.01028 | 0.00770 | 0.00665 | 0.00984 | 0.01075 | 0.00781 | 0.00651 |
| 53_G | 0.00109 | 0.00224 | 0.00162 | 0.00132 | 0.00310 | 0.00322 | 0.00248 | 0.00216 | 0.00129 | 0.00160 | 0.00120 | 0.00104 | 0.00154 | 0.00168 | 0.00122 | 0.00101 |
| 53_D | 0.00104 | 0.00212 | 0.00153 | 0.00126 | 0.00295 | 0.00306 | 0.00236 | 0.00205 | 0.00123 | 0.00152 | 0.00114 | 0.00098 | 0.00146 | 0.00159 | 0.00116 | 0.00096 |
| 54_G | 0.00030 | 0.00062 | 0.00045 | 0.00037 | 0.00086 | 0.00089 | 0.00069 | 0.00060 | 0.00036 | 0.00044 | 0.00033 | 0.00029 | 0.00042 | 0.00046 | 0.00034 | 0.00028 |
| 54_D | 0.00029 | 0.00059 | 0.00042 | 0.00035 | 0.00082 | 0.00085 | 0.00065 | 0.00057 | 0.00034 | 0.00042 | 0.00032 | 0.00027 | 0.00040 | 0.00044 | 0.00032 | 0.00027 |
| 61_G | 0.00050 | 0.00085 | 0.00053 | 0.00033 | 0.00403 | 0.00145 | 0.00091 | 0.00062 | 0.00150 | 0.00050 | 0.00048 | 0.00027 | 0.00137 | 0.00086 | 0.00107 | 0.00063 |
| 61_D | 0.00576 | 0.00983 | 0.00608 | 0.00375 | 0.04639 | 0.01669 | 0.01043 | 0.00718 | 0.01724 | 0.00577 | 0.00557 | 0.00310 | 0.01577 | 0.00992 | 0.01227 | 0.00727 |
| 62_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 62_D | 0.02072 | 0.03536 | 0.02189 | 0.01351 | 0.16693 | 0.06007 | 0.03753 | 0.02583 | 0.06203 | 0.02077 | 0.02003 | 0.01117 | 0.05676 | 0.03568 | 0.04414 | 0.02617 |

2020 Weekday VMT Mix – Beaumont TxDOT District (2018 and 2020 Activity Scenarios)

| SUT/FT | AM Peak RT2 | AM Peak RT3 | AM Peak RT4 | AM Peak RT5 | Mid-Day RT2 | Mid-Day RT3 | Mid-Day RT4 | Mid-Day RT5 | PM Peak RT2 | PM Peak RT3 | PM Peak RT4 | PM Peak RT5 | Over-night RT2 | Over-night RT3 | Over-night RT4 | Over-night RT5 |
|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|
| 11_G | 0.00054 | 0.00052 | 0.00055 | 0.00067 | 0.00049 | 0.00051 | 0.00053 | 0.00064 | 0.00049 | 0.00057 | 0.00056 | 0.00069 | 0.00041 | 0.00054 | 0.00049 | 0.00069 |
| 21_G | 0.52975 | 0.51862 | 0.54774 | 0.66612 | 0.48337 | 0.50496 | 0.52939 | 0.63212 | 0.48224 | 0.56419 | 0.55093 | 0.68348 | 0.40643 | 0.53825 | 0.48415 | 0.68137 |
| 21_D | 0.00481 | 0.00471 | 0.00497 | 0.00605 | 0.00439 | 0.00459 | 0.00481 | 0.00574 | 0.00438 | 0.00512 | 0.00500 | 0.00621 | 0.00369 | 0.00489 | 0.00440 | 0.00619 |
| 31_G | 0.22650 | 0.26264 | 0.20149 | 0.21977 | 0.22476 | 0.26380 | 0.19149 | 0.23697 | 0.22939 | 0.26955 | 0.19380 | 0.22492 | 0.20147 | 0.24828 | 0.15553 | 0.21572 |
| 31_D | 0.00415 | 0.00481 | 0.00369 | 0.00403 | 0.00412 | 0.00484 | 0.00351 | 0.00434 | 0.00420 | 0.00494 | 0.00355 | 0.00412 | 0.00369 | 0.00455 | 0.00285 | 0.00395 |
| 32_G | 0.05564 | 0.06451 | 0.04949 | 0.05398 | 0.05521 | 0.06480 | 0.04703 | 0.05821 | 0.05634 | 0.06621 | 0.04760 | 0.05525 | 0.04949 | 0.06098 | 0.03820 | 0.05299 |
| 32_D | 0.00311 | 0.00361 | 0.00277 | 0.00302 | 0.00309 | 0.00363 | 0.00263 | 0.00326 | 0.00315 | 0.00371 | 0.00266 | 0.00309 | 0.00277 | 0.00341 | 0.00214 | 0.00297 |
| 41_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 41_D | 0.00030 | 0.00112 | 0.00043 | 0.00078 | 0.00018 | 0.00061 | 0.00045 | 0.00062 | 0.00023 | 0.00021 | 0.00037 | 0.00052 | 0.00030 | 0.00020 | 0.00053 | 0.00045 |
| 42_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 42_D | 0.00060 | 0.00225 | 0.00087 | 0.00156 | 0.00035 | 0.00123 | 0.00090 | 0.00124 | 0.00045 | 0.00042 | 0.00075 | 0.00105 | 0.00060 | 0.00041 | 0.00107 | 0.00091 |
| 43_G | 0.00002 | 0.00006 | 0.00002 | 0.00004 | 0.00001 | 0.00003 | 0.00002 | 0.00003 | 0.00001 | 0.00001 | 0.00002 | 0.00003 | 0.00002 | 0.00001 | 0.00003 | 0.00002 |
| 43_D | 0.00164 | 0.00614 | 0.00237 | 0.00426 | 0.00096 | 0.00335 | 0.00246 | 0.00339 | 0.00124 | 0.00114 | 0.00204 | 0.00286 | 0.00163 | 0.00112 | 0.00293 | 0.00247 |
| 51_G | 0.00048 | 0.00075 | 0.00049 | 0.00041 | 0.00052 | 0.00080 | 0.00058 | 0.00056 | 0.00036 | 0.00053 | 0.00041 | 0.00020 | 0.00057 | 0.00055 | 0.00046 | 0.00030 |
| 51_D | 0.00086 | 0.00133 | 0.00087 | 0.00072 | 0.00092 | 0.00142 | 0.00104 | 0.00100 | 0.00064 | 0.00094 | 0.00073 | 0.00036 | 0.00101 | 0.00099 | 0.00082 | 0.00054 |
| 52_G | 0.01056 | 0.01632 | 0.01064 | 0.00887 | 0.01132 | 0.01739 | 0.01272 | 0.01225 | 0.00786 | 0.01156 | 0.00898 | 0.00435 | 0.01241 | 0.01209 | 0.01009 | 0.00666 |
| 52_D | 0.01886 | 0.02915 | 0.01899 | 0.01584 | 0.02022 | 0.03105 | 0.02271 | 0.02187 | 0.01404 | 0.02064 | 0.01604 | 0.00777 | 0.02216 | 0.02159 | 0.01801 | 0.01190 |
| 53_G | 0.00037 | 0.00057 | 0.00037 | 0.00031 | 0.00040 | 0.00061 | 0.00045 | 0.00043 | 0.00028 | 0.00041 | 0.00032 | 0.00015 | 0.00044 | 0.00043 | 0.00036 | 0.00023 |
| 53_D | 0.00066 | 0.00103 | 0.00067 | 0.00056 | 0.00071 | 0.00109 | 0.00080 | 0.00077 | 0.00049 | 0.00073 | 0.00056 | 0.00027 | 0.00078 | 0.00076 | 0.00063 | 0.00042 |
| 54_G | 0.00037 | 0.00056 | 0.00037 | 0.00031 | 0.00039 | 0.00060 | 0.00044 | 0.00042 | 0.00027 | 0.00040 | 0.00031 | 0.00015 | 0.00043 | 0.00042 | 0.00035 | 0.00023 |
| 54_D | 0.00065 | 0.00101 | 0.00066 | 0.00055 | 0.00070 | 0.00107 | 0.00079 | 0.00076 | 0.00049 | 0.00071 | 0.00055 | 0.00027 | 0.00077 | 0.00075 | 0.00062 | 0.00041 |
| 61_G | 0.00326 | 0.00187 | 0.00355 | 0.00028 | 0.00438 | 0.00218 | 0.00413 | 0.00036 | 0.00451 | 0.00112 | 0.00384 | 0.00010 | 0.00678 | 0.00232 | 0.00644 | 0.00027 |
| 61_D | 0.03260 | 0.01868 | 0.03550 | 0.00283 | 0.04372 | 0.02179 | 0.04125 | 0.00358 | 0.04501 | 0.01117 | 0.03835 | 0.00099 | 0.06770 | 0.02322 | 0.06430 | 0.00269 |
| 62_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 62_D | 0.10424 | 0.05972 | 0.11349 | 0.00904 | 0.13979 | 0.06966 | 0.13187 | 0.01144 | 0.14392 | 0.03573 | 0.12261 | 0.00316 | 0.21647 | 0.07423 | 0.20559 | 0.00860 |

2020 Weekday VMT Mix – Houston TxDOT District (2018 and 2020 Activity Scenarios)

| SUT/FT | AM Peak RT2 | AM Peak RT3 | AM Peak RT4 | AM Peak RT5 | Mid-Day RT2 | Mid-Day RT3 | Mid-Day RT4 | Mid-Day RT5 | PM Peak RT2 | PM Peak RT3 | PM Peak RT4 | PM Peak RT5 | Over-night RT2 | Over-night RT3 | Over-night RT4 | Over-night RT5 |
|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|
| 11_G | 0.00072 | 0.00065 | 0.00071 | 0.00073 | 0.00053 | 0.00058 | 0.00066 | 0.00068 | 0.00069 | 0.00066 | 0.00072 | 0.00074 | 0.00065 | 0.00068 | 0.00071 | 0.00074 |
| 21_G | 0.70993 | 0.64134 | 0.70051 | 0.72261 | 0.52671 | 0.57114 | 0.65658 | 0.67779 | 0.67885 | 0.65583 | 0.70864 | 0.73632 | 0.63916 | 0.67388 | 0.70543 | 0.73287 |
| 21_D | 0.00645 | 0.00582 | 0.00636 | 0.00656 | 0.00478 | 0.00519 | 0.00596 | 0.00616 | 0.00617 | 0.00596 | 0.00644 | 0.00669 | 0.00580 | 0.00612 | 0.00641 | 0.00666 |
| 31_G | 0.18242 | 0.20795 | 0.18290 | 0.17768 | 0.15526 | 0.22677 | 0.19173 | 0.19083 | 0.16604 | 0.22159 | 0.18451 | 0.17482 | 0.19596 | 0.19098 | 0.16229 | 0.16263 |
| 31_D | 0.00334 | 0.00381 | 0.00335 | 0.00326 | 0.00285 | 0.00416 | 0.00351 | 0.00350 | 0.00304 | 0.00406 | 0.00338 | 0.00320 | 0.00359 | 0.00350 | 0.00297 | 0.00298 |
| 32_G | 0.04481 | 0.05108 | 0.04493 | 0.04364 | 0.03814 | 0.05570 | 0.04709 | 0.04687 | 0.04078 | 0.05443 | 0.04532 | 0.04294 | 0.04813 | 0.04691 | 0.03986 | 0.03995 |
| 32_D | 0.00251 | 0.00286 | 0.00251 | 0.00244 | 0.00213 | 0.00312 | 0.00264 | 0.00262 | 0.00228 | 0.00305 | 0.00254 | 0.00240 | 0.00269 | 0.00263 | 0.00223 | 0.00224 |
| 41_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 41_D | 0.00059 | 0.00046 | 0.00045 | 0.00045 | 0.00018 | 0.00030 | 0.00028 | 0.00031 | 0.00003 | 0.00014 | 0.00032 | 0.00016 | 0.00059 | 0.00017 | 0.00032 | 0.00015 |
| 42_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 42_D | 0.00118 | 0.00092 | 0.00090 | 0.00091 | 0.00036 | 0.00060 | 0.00056 | 0.00062 | 0.00005 | 0.00028 | 0.00065 | 0.00033 | 0.00118 | 0.00034 | 0.00064 | 0.00030 |
| 43_G | 0.00003 | 0.00003 | 0.00002 | 0.00003 | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00000 | 0.00001 | 0.00002 | 0.00001 | 0.00003 | 0.00001 | 0.00002 | 0.00001 |
| 43_D | 0.00322 | 0.00251 | 0.00245 | 0.00249 | 0.00098 | 0.00163 | 0.00154 | 0.00170 | 0.00014 | 0.00075 | 0.00177 | 0.00089 | 0.00321 | 0.00093 | 0.00174 | 0.00082 |
| 51_G | 0.00037 | 0.00077 | 0.00056 | 0.00045 | 0.00107 | 0.00111 | 0.00085 | 0.00074 | 0.00044 | 0.00055 | 0.00041 | 0.00036 | 0.00053 | 0.00058 | 0.00042 | 0.00035 |
| 51_D | 0.00036 | 0.00073 | 0.00053 | 0.00043 | 0.00101 | 0.00105 | 0.00081 | 0.00070 | 0.00042 | 0.00052 | 0.00039 | 0.00034 | 0.00050 | 0.00055 | 0.00040 | 0.00033 |
| 52_G | 0.00739 | 0.01515 | 0.01095 | 0.00896 | 0.02103 | 0.02181 | 0.01681 | 0.01462 | 0.00877 | 0.01087 | 0.00813 | 0.00703 | 0.01040 | 0.01136 | 0.00826 | 0.00687 |
| 52_D | 0.00702 | 0.01438 | 0.01040 | 0.00851 | 0.01996 | 0.02070 | 0.01596 | 0.01388 | 0.00833 | 0.01032 | 0.00772 | 0.00667 | 0.00987 | 0.01079 | 0.00784 | 0.00653 |
| 53_G | 0.00109 | 0.00224 | 0.00162 | 0.00133 | 0.00311 | 0.00323 | 0.00249 | 0.00217 | 0.00130 | 0.00161 | 0.00120 | 0.00104 | 0.00154 | 0.00168 | 0.00122 | 0.00102 |
| 53_D | 0.00104 | 0.00213 | 0.00154 | 0.00126 | 0.00296 | 0.00307 | 0.00236 | 0.00206 | 0.00123 | 0.00153 | 0.00114 | 0.00099 | 0.00146 | 0.00160 | 0.00116 | 0.00097 |
| 54_G | 0.00028 | 0.00058 | 0.00042 | 0.00034 | 0.00081 | 0.00084 | 0.00064 | 0.00056 | 0.00034 | 0.00042 | 0.00031 | 0.00027 | 0.00040 | 0.00044 | 0.00032 | 0.00026 |
| 54_D | 0.00027 | 0.00055 | 0.00040 | 0.00033 | 0.00077 | 0.00079 | 0.00061 | 0.00053 | 0.00032 | 0.00040 | 0.00030 | 0.00026 | 0.00038 | 0.00041 | 0.00030 | 0.00025 |
| 61_G | 0.00055 | 0.00094 | 0.00058 | 0.00036 | 0.00445 | 0.00160 | 0.00100 | 0.00069 | 0.00165 | 0.00055 | 0.00053 | 0.00030 | 0.00151 | 0.00095 | 0.00118 | 0.00070 |
| 61_D | 0.00635 | 0.01084 | 0.00671 | 0.00414 | 0.05119 | 0.01842 | 0.01151 | 0.00792 | 0.01902 | 0.00637 | 0.00614 | 0.00342 | 0.01741 | 0.01094 | 0.01354 | 0.00802 |
| 62_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 62_D | 0.02007 | 0.03426 | 0.02120 | 0.01308 | 0.16172 | 0.05819 | 0.03636 | 0.02502 | 0.06009 | 0.02012 | 0.01940 | 0.01082 | 0.05499 | 0.03456 | 0.04276 | 0.02535 |

2025 Weekday VMT Mix – Beaumont TxDOT District (2023, 2026, and 2027 Activity Scenarios)

| SUT/FT | AM Peak RT2 | AM Peak RT3 | AM Peak RT4 | AM Peak RT5 | Mid-Day RT2 | Mid-Day RT3 | Mid-Day RT4 | Mid-Day RT5 | PM Peak RT2 | PM Peak RT3 | PM Peak RT4 | PM Peak RT5 | Over-night RT2 | Over-night RT3 | Over-night RT4 | Over-night RT5 |
|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|
| 11_G | 0.00054 | 0.00052 | 0.00055 | 0.00067 | 0.00049 | 0.00051 | 0.00053 | 0.00064 | 0.00049 | 0.00057 | 0.00056 | 0.00069 | 0.00041 | 0.00054 | 0.00049 | 0.00069 |
| 21_G | 0.52868 | 0.51758 | 0.54663 | 0.66478 | 0.48240 | 0.50394 | 0.52832 | 0.63084 | 0.48127 | 0.56305 | 0.54982 | 0.68210 | 0.40561 | 0.53717 | 0.48317 | 0.68000 |
| 21_D | 0.00588 | 0.00576 | 0.00608 | 0.00739 | 0.00537 | 0.00560 | 0.00588 | 0.00702 | 0.00535 | 0.00626 | 0.00612 | 0.00759 | 0.00451 | 0.00597 | 0.00537 | 0.00756 |
| 31_G | 0.22627 | 0.26238 | 0.20128 | 0.21955 | 0.22454 | 0.26354 | 0.19129 | 0.23673 | 0.22916 | 0.26928 | 0.19360 | 0.22469 | 0.20127 | 0.24803 | 0.15537 | 0.21550 |
| 31_D | 0.00438 | 0.00508 | 0.00390 | 0.00425 | 0.00435 | 0.00510 | 0.00370 | 0.00458 | 0.00444 | 0.00522 | 0.00375 | 0.00435 | 0.00390 | 0.00480 | 0.00301 | 0.00417 |
| 32_G | 0.05564 | 0.06451 | 0.04949 | 0.05398 | 0.05521 | 0.06480 | 0.04703 | 0.05821 | 0.05634 | 0.06621 | 0.04760 | 0.05525 | 0.04949 | 0.06098 | 0.03820 | 0.05299 |
| 32_D | 0.00311 | 0.00361 | 0.00277 | 0.00302 | 0.00309 | 0.00363 | 0.00263 | 0.00326 | 0.00315 | 0.00371 | 0.00266 | 0.00309 | 0.00277 | 0.00341 | 0.00214 | 0.00297 |
| 41_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 41_D | 0.00030 | 0.00112 | 0.00043 | 0.00078 | 0.00018 | 0.00061 | 0.00045 | 0.00062 | 0.00023 | 0.00021 | 0.00037 | 0.00052 | 0.00030 | 0.00020 | 0.00053 | 0.00045 |
| 42_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 42_D | 0.00061 | 0.00227 | 0.00088 | 0.00157 | 0.00036 | 0.00124 | 0.00091 | 0.00125 | 0.00046 | 0.00042 | 0.00075 | 0.00106 | 0.00060 | 0.00041 | 0.00108 | 0.00091 |
| 43_G | 0.00002 | 0.00006 | 0.00002 | 0.00004 | 0.00001 | 0.00003 | 0.00002 | 0.00003 | 0.00001 | 0.00001 | 0.00002 | 0.00003 | 0.00002 | 0.00001 | 0.00003 | 0.00002 |
| 43_D | 0.00164 | 0.00613 | 0.00236 | 0.00424 | 0.00096 | 0.00334 | 0.00246 | 0.00338 | 0.00123 | 0.00114 | 0.00203 | 0.00285 | 0.00162 | 0.00111 | 0.00292 | 0.00246 |
| 51_G | 0.00048 | 0.00075 | 0.00049 | 0.00041 | 0.00052 | 0.00080 | 0.00058 | 0.00056 | 0.00036 | 0.00053 | 0.00041 | 0.00020 | 0.00057 | 0.00055 | 0.00046 | 0.00030 |
| 51_D | 0.00086 | 0.00133 | 0.00087 | 0.00072 | 0.00092 | 0.00142 | 0.00104 | 0.00100 | 0.00064 | 0.00094 | 0.00073 | 0.00036 | 0.00101 | 0.00099 | 0.00082 | 0.00054 |
| 52_G | 0.01059 | 0.01636 | 0.01066 | 0.00889 | 0.01135 | 0.01743 | 0.01274 | 0.01227 | 0.00788 | 0.01158 | 0.00900 | 0.00436 | 0.01244 | 0.01212 | 0.01011 | 0.00668 |
| 52_D | 0.01890 | 0.02921 | 0.01903 | 0.01588 | 0.02026 | 0.03112 | 0.02276 | 0.02191 | 0.01407 | 0.02068 | 0.01608 | 0.00779 | 0.02221 | 0.02164 | 0.01805 | 0.01192 |
| 53_G | 0.00037 | 0.00058 | 0.00038 | 0.00031 | 0.00040 | 0.00061 | 0.00045 | 0.00043 | 0.00028 | 0.00041 | 0.00032 | 0.00015 | 0.00044 | 0.00043 | 0.00036 | 0.00024 |
| 53_D | 0.00067 | 0.00103 | 0.00067 | 0.00056 | 0.00071 | 0.00110 | 0.00080 | 0.00077 | 0.00050 | 0.00073 | 0.00057 | 0.00027 | 0.00078 | 0.00076 | 0.00064 | 0.00042 |
| 54_G | 0.00034 | 0.00053 | 0.00034 | 0.00029 | 0.00037 | 0.00056 | 0.00041 | 0.00040 | 0.00025 | 0.00037 | 0.00029 | 0.00014 | 0.00040 | 0.00039 | 0.00033 | 0.00022 |
| 54_D | 0.00061 | 0.00094 | 0.00061 | 0.00051 | 0.00065 | 0.00100 | 0.00073 | 0.00071 | 0.00045 | 0.00067 | 0.00052 | 0.00025 | 0.00072 | 0.00070 | 0.00058 | 0.00038 |
| 61_G | 0.00338 | 0.00194 | 0.00368 | 0.00029 | 0.00453 | 0.00226 | 0.00427 | 0.00037 | 0.00466 | 0.00116 | 0.00397 | 0.00010 | 0.00702 | 0.00241 | 0.00666 | 0.00028 |
| 61_D | 0.03375 | 0.01933 | 0.03674 | 0.00293 | 0.04526 | 0.02255 | 0.04270 | 0.00370 | 0.04660 | 0.01157 | 0.03970 | 0.00102 | 0.07009 | 0.02403 | 0.06656 | 0.00279 |
| 62_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 62_D | 0.10298 | 0.05899 | 0.11212 | 0.00893 | 0.13810 | 0.06882 | 0.13028 | 0.01130 | 0.14218 | 0.03529 | 0.12113 | 0.00312 | 0.21385 | 0.07333 | 0.20310 | 0.00850 |

2025 Weekday VMT Mix – Houston TxDOT District (2023, 2026, and 2027 Activity Scenarios)

| SUT/FT | AM Peak RT2 | AM Peak RT3 | AM Peak RT4 | AM Peak RT5 | Mid-Day RT2 | Mid-Day RT3 | Mid-Day RT4 | Mid-Day RT5 | PM Peak RT2 | PM Peak RT3 | PM Peak RT4 | PM Peak RT5 | Over-night RT2 | Over-night RT3 | Over-night RT4 | Over-night RT5 |
|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|
| 11_G | 0.00072 | 0.00065 | 0.00071 | 0.00073 | 0.00053 | 0.00058 | 0.00066 | 0.00068 | 0.00069 | 0.00066 | 0.00072 | 0.00074 | 0.00065 | 0.00068 | 0.00071 | 0.00074 |
| 21_G | 0.70849 | 0.64005 | 0.69909 | 0.72115 | 0.52565 | 0.56999 | 0.65526 | 0.67642 | 0.67748 | 0.65450 | 0.70721 | 0.73484 | 0.63787 | 0.67252 | 0.70401 | 0.73140 |
| 21_D | 0.00788 | 0.00712 | 0.00778 | 0.00802 | 0.00585 | 0.00634 | 0.00729 | 0.00752 | 0.00754 | 0.00728 | 0.00787 | 0.00817 | 0.00709 | 0.00748 | 0.00783 | 0.00813 |
| 31_G | 0.18224 | 0.20774 | 0.18272 | 0.17749 | 0.15510 | 0.22653 | 0.19153 | 0.19064 | 0.16588 | 0.22137 | 0.18432 | 0.17464 | 0.19576 | 0.19079 | 0.16213 | 0.16247 |
| 31_D | 0.00353 | 0.00402 | 0.00354 | 0.00344 | 0.00300 | 0.00439 | 0.00371 | 0.00369 | 0.00321 | 0.00429 | 0.00357 | 0.00338 | 0.00379 | 0.00370 | 0.00314 | 0.00315 |
| 32_G | 0.04481 | 0.05108 | 0.04493 | 0.04364 | 0.03814 | 0.05570 | 0.04709 | 0.04687 | 0.04078 | 0.05443 | 0.04532 | 0.04294 | 0.04813 | 0.04691 | 0.03986 | 0.03995 |
| 32_D | 0.00251 | 0.00286 | 0.00251 | 0.00244 | 0.00213 | 0.00312 | 0.00264 | 0.00262 | 0.00228 | 0.00305 | 0.00254 | 0.00240 | 0.00269 | 0.00263 | 0.00223 | 0.00224 |
| 41_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 41_D | 0.00059 | 0.00046 | 0.00045 | 0.00045 | 0.00018 | 0.00030 | 0.00028 | 0.00031 | 0.00003 | 0.00014 | 0.00032 | 0.00016 | 0.00059 | 0.00017 | 0.00032 | 0.00015 |
| 42_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 42_D | 0.00119 | 0.00093 | 0.00091 | 0.00092 | 0.00036 | 0.00060 | 0.00057 | 0.00063 | 0.00005 | 0.00028 | 0.00066 | 0.00033 | 0.00119 | 0.00034 | 0.00064 | 0.00030 |
| 43_G | 0.00003 | 0.00003 | 0.00002 | 0.00003 | 0.00001 | 0.00002 | 0.00002 | 0.00002 | 0.00000 | 0.00001 | 0.00002 | 0.00001 | 0.00003 | 0.00001 | 0.00002 | 0.00001 |
| 43_D | 0.00321 | 0.00250 | 0.00245 | 0.00248 | 0.00098 | 0.00163 | 0.00154 | 0.00169 | 0.00014 | 0.00075 | 0.00177 | 0.00089 | 0.00320 | 0.00092 | 0.00173 | 0.00082 |
| 51_G | 0.00037 | 0.00077 | 0.00056 | 0.00045 | 0.00107 | 0.00111 | 0.00085 | 0.00074 | 0.00044 | 0.00055 | 0.00041 | 0.00036 | 0.00053 | 0.00058 | 0.00042 | 0.00035 |
| 51_D | 0.00036 | 0.00073 | 0.00053 | 0.00043 | 0.00101 | 0.00105 | 0.00081 | 0.00070 | 0.00042 | 0.00052 | 0.00039 | 0.00034 | 0.00050 | 0.00055 | 0.00040 | 0.00033 |
| 52_G | 0.00741 | 0.01518 | 0.01097 | 0.00898 | 0.02107 | 0.02185 | 0.01685 | 0.01465 | 0.00879 | 0.01089 | 0.00815 | 0.00704 | 0.01042 | 0.01139 | 0.00827 | 0.00689 |
| 52_D | 0.00703 | 0.01441 | 0.01042 | 0.00852 | 0.02001 | 0.02075 | 0.01600 | 0.01391 | 0.00834 | 0.01034 | 0.00774 | 0.00669 | 0.00989 | 0.01081 | 0.00785 | 0.00654 |
| 53_G | 0.00110 | 0.00225 | 0.00163 | 0.00133 | 0.00312 | 0.00324 | 0.00250 | 0.00217 | 0.00130 | 0.00161 | 0.00121 | 0.00104 | 0.00154 | 0.00169 | 0.00123 | 0.00102 |
| 53_D | 0.00104 | 0.00213 | 0.00154 | 0.00126 | 0.00296 | 0.00307 | 0.00237 | 0.00206 | 0.00124 | 0.00153 | 0.00115 | 0.00099 | 0.00147 | 0.00160 | 0.00116 | 0.00097 |
| 54_G | 0.00027 | 0.00054 | 0.00039 | 0.00032 | 0.00075 | 0.00078 | 0.00060 | 0.00052 | 0.00031 | 0.00039 | 0.00029 | 0.00025 | 0.00037 | 0.00041 | 0.00030 | 0.00025 |
| 54_D | 0.00025 | 0.00052 | 0.00037 | 0.00031 | 0.00072 | 0.00074 | 0.00057 | 0.00050 | 0.00030 | 0.00037 | 0.00028 | 0.00024 | 0.00035 | 0.00039 | 0.00028 | 0.00023 |
| 61_G | 0.00057 | 0.00098 | 0.00060 | 0.00037 | 0.00461 | 0.00166 | 0.00104 | 0.00071 | 0.00171 | 0.00057 | 0.00055 | 0.00031 | 0.00157 | 0.00098 | 0.00122 | 0.00072 |
| 61_D | 0.00658 | 0.01123 | 0.00695 | 0.00429 | 0.05299 | 0.01907 | 0.01191 | 0.00820 | 0.01969 | 0.00659 | 0.00636 | 0.00354 | 0.01802 | 0.01133 | 0.01401 | 0.00831 |
| 62_G | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 62_D | 0.01983 | 0.03384 | 0.02095 | 0.01293 | 0.15976 | 0.05749 | 0.03592 | 0.02472 | 0.05937 | 0.01988 | 0.01917 | 0.01069 | 0.05432 | 0.03415 | 0.04224 | 0.02504 |

APPENDIX D: TXDOT DISTRICT AGGREGATE WEEKDAY VMT MIX

TxDOT District/HGB Counties

| TxDOT District | District Code | HGB County | County FIPS |
|----------------|---------------|------------|-------------|
| Beaumont | D05 | Chambers | 48071 |
| Beaumont | D05 | Liberty | 48291 |
| Houston | D13 | Brazoria | 48039 |
| Houston | D13 | Fort Bend | 48157 |
| Houston | D13 | Galveston | 48167 |
| Houston | D13 | Harris | 48201 |
| Houston | D13 | Montgomery | 48339 |
| Houston | D13 | Waller | 48473 |

VMT Mix Year/Analysis Year Correlations

| VMT Mix Year | Analysis Years |
|--------------|-------------------|
| 2000 | 1998 through 2002 |
| 2005 | 2003 through 2007 |
| 2010 | 2008 through 2012 |
| 2015 | 2013 through 2017 |
| 2020 | 2018 through 2022 |
| 2025 | 2023 through 2027 |
| 2030 | 2028 through 2032 |

Aggregate Weekday VMT Mix – Beaumont TxDOT District

| SUT/FT | 2010 ¹ | 2015 ² | 2020 ³ | 2025 ⁴ |
|--------|-------------------|-------------------|-------------------|-------------------|
| 11_G | 0.00053 | 0.00053 | 0.00053 | 0.00053 |
| 21_G | 0.52888 | 0.52728 | 0.52622 | 0.52516 |
| 21_D | 0.00212 | 0.00372 | 0.00478 | 0.00584 |
| 31_G | 0.21812 | 0.21872 | 0.21805 | 0.21783 |
| 31_D | 0.00310 | 0.00333 | 0.00400 | 0.00422 |
| 32_G | 0.05435 | 0.05362 | 0.05356 | 0.05356 |
| 32_D | 0.00304 | 0.00294 | 0.00300 | 0.00300 |
| 41_G | 0 | 0 | 0 | 0 |
| 41_D | 0.00150 | 0.00048 | 0.00048 | 0.00048 |
| 42_G | 0 | 0 | 0 | 0 |
| 42_D | 0.00062 | 0.00095 | 0.00096 | 0.00096 |
| 43_G | 0.00002 | 0.00003 | 0.00003 | 0.00003 |
| 43_D | 0.00193 | 0.00262 | 0.00261 | 0.00260 |
| 51_G | 0.00058 | 0.00059 | 0.00058 | 0.00058 |
| 51_D | 0.00103 | 0.00105 | 0.00103 | 0.00103 |
| 52_G | 0.01257 | 0.01253 | 0.01257 | 0.01260 |
| 52_D | 0.02245 | 0.02238 | 0.02245 | 0.02250 |
| 53_G | 0.00044 | 0.00044 | 0.00044 | 0.00044 |
| 53_D | 0.00079 | 0.00079 | 0.00079 | 0.00079 |
| 54_G | 0.00043 | 0.00046 | 0.00043 | 0.00041 |
| 54_D | 0.00078 | 0.00083 | 0.00078 | 0.00073 |
| 61_G | 0.00310 | 0.00310 | 0.00342 | 0.00354 |
| 61_D | 0.03094 | 0.03094 | 0.03414 | 0.03534 |
| 62_G | 0 | 0 | 0 | 0 |
| 62_D | 0.11268 | 0.11268 | 0.10916 | 0.10784 |

¹ 2011 activity scenario.

² 2017 activity scenario.

³ 2018 and 2020 activity scenarios

⁴ 2023, 2026, and 2027 activity scenarios.

Aggregate Weekday VMT Mix – Houston TxDOT District

| SUT/FT | 2010 ¹ | 2015 ² | 2020 ³ | 2025 ⁴ |
|--------|-------------------|-------------------|-------------------|-------------------|
| 11_G | 0.00069 | 0.00069 | 0.00069 | 0.00069 |
| 21_G | 0.68452 | 0.68246 | 0.68109 | 0.67971 |
| 21_D | 0.00275 | 0.00481 | 0.00619 | 0.00756 |
| 31_G | 0.18512 | 0.18545 | 0.18507 | 0.18488 |
| 31_D | 0.00263 | 0.00302 | 0.00339 | 0.00358 |
| 32_G | 0.04613 | 0.04551 | 0.04546 | 0.04546 |
| 32_D | 0.00258 | 0.00250 | 0.00254 | 0.00254 |
| 41_G | 0 | 0 | 0 | 0 |
| 41_D | 0.00103 | 0.00033 | 0.00033 | 0.00033 |
| 42_G | 0 | 0 | 0 | 0 |
| 42_D | 0.00042 | 0.00065 | 0.00065 | 0.00066 |
| 43_G | 0.00001 | 0.00002 | 0.00002 | 0.00002 |
| 43_D | 0.00132 | 0.00179 | 0.00179 | 0.00178 |
| 51_G | 0.00064 | 0.00066 | 0.00064 | 0.00064 |
| 51_D | 0.00061 | 0.00063 | 0.00061 | 0.00061 |
| 52_G | 0.01268 | 0.01264 | 0.01268 | 0.01271 |
| 52_D | 0.01204 | 0.01200 | 0.01204 | 0.01207 |
| 53_G | 0.00188 | 0.00187 | 0.00188 | 0.00188 |
| 53_D | 0.00178 | 0.00178 | 0.00178 | 0.00179 |
| 54_G | 0.00049 | 0.00052 | 0.00049 | 0.00046 |
| 54_D | 0.00046 | 0.00049 | 0.00046 | 0.00043 |
| 61_G | 0.00078 | 0.00078 | 0.00086 | 0.00089 |
| 61_D | 0.00901 | 0.00901 | 0.00994 | 0.01029 |
| 62_G | 0 | 0 | 0 | 0 |
| 62_D | 0.03241 | 0.03241 | 0.03140 | 0.03102 |

¹ 2011 activity scenario.

² 2017 activity scenario.

³ 2018 and 2020 activity scenarios

⁴ 2023, 2026, and 2027 activity scenarios.

APPENDIX E: CAPACITY FACTORS, SPEED FACTORS, AND SPEED REDUCTION FACTORS

Capacity Factors

| Time of Day Assignment | Capacity Factor ¹ |
|------------------------|------------------------------|
| AM Peak | 0.3333333 |
| Mid-Day | 0.1666667 |
| PM Peak | 0.2500000 |
| Overnight | 0.0909091 |

¹ To obtain hourly capacities, a single capacity factor for each time-of-day assignment is used for all area types and functional classifications.

Free-Flow (V/C=0) Speed Factors for Houston/Galveston Speed Model

| Functional Class Code and Description | Area Type Code and Description | Distance Weighted Input Speeds ¹ | Distance Weighted Free-Flow Speeds ² | Free-Flow Speed Factor ³ |
|---------------------------------------|--------------------------------|---|---|-------------------------------------|
| 1 - Urban Interstate | 1 - CBD | 50.85 | 56.40 | 1.10906 |
| 1 - Urban Interstate | 2 - Urban | 52.55 | 61.40 | 1.16842 |
| 2 - Urban Other Freeway | 1 - CBD | N/A | 58.00 | 1.21154 |
| 2 - Urban Other Freeway | 2 - Urban | 52.00 | 63.00 | 1.21154 |
| 3 - Toll Road | 1 - CBD | N/A | 34.50 | 0.62652 |
| 3 - Toll Road | 2 - Urban | 57.58 | 36.08 | 0.62652 |
| 3 - Toll Road | 3 - Urban Fringe | 61.69 | 36.14 | 0.58577 |
| 3 - Toll Road | 4 - Suburban | 64.34 | 37.99 | 0.59040 |
| 3 - Toll Road | 5 - Rural | 59.13 | 38.43 | 0.64991 |
| 4 - Ramp | 1 - CBD | 28.62 | 35.13 | 1.22734 |
| 4 - Ramp | 2 - Urban | 40.06 | 36.26 | 0.90509 |
| 4 - Ramp | 3 - Urban Fringe | 43.22 | 38.52 | 0.89119 |
| 4 - Ramp | 4 - Suburban | 44.82 | 45.71 | 1.01987 |
| 4 - Ramp | 5 - Rural | 55.16 | 52.11 | 0.94478 |
| 5 - Urban Principal Arterial | 1 - CBD | 24.72 | 26.52 | 1.07262 |
| 5 - Urban Principal Arterial | 2 - Urban | 35.78 | 29.69 | 0.82974 |
| 6 - Urban Other Arterial | 1 - CBD | 22.00 | 24.64 | 1.11996 |
| 6 - Urban Other Arterial | 2 - Urban | 34.57 | 27.31 | 0.79001 |
| 7 - Urban Collector | 1 - CBD | 20.94 | 24.17 | 1.15413 |
| 7 - Urban Collector | 2 - Urban | 35.36 | 25.78 | 0.72901 |
| 10 - Rural Interstate | 3 - Urban Fringe | 57.84 | 61.40 | 1.06152 |
| 10 - Rural Interstate | 4 - Suburban | 59.15 | 67.20 | 1.13613 |
| 10 - Rural Interstate | 5 - Rural | 62.00 | 68.57 | 1.10599 |
| 11 - Rural Other Freeway | 3 - Urban Fringe | 62.00 | 63.00 | 1.01613 |
| 11 - Rural Other Freeway | 4 - Suburban | 62.00 | 69.00 | 1.11290 |
| 11 - Rural Other Freeway | 5 - Rural | 64.00 | 71.00 | 1.10938 |
| 12 - Rural Principal Arterial | 3 - Urban Fringe | 40.23 | 33.75 | 0.83890 |
| 12 - Rural Principal Arterial | 4 - Suburban | 46.12 | 42.48 | 0.92125 |
| 12 - Rural Principal Arterial | 5 - Rural | 60.00 | 55.53 | 0.92536 |
| 13 - Rural Other Arterial | 3 - Urban Fringe | 39.05 | 30.51 | 0.78131 |
| 13 - Rural Other Arterial | 4 - Suburban | 43.03 | 39.85 | 0.92612 |
| 13 - Rural Other Arterial | 5 - Rural | 53.97 | 54.07 | 1.00194 |
| 14 - Rural Major Collector | 3 - Urban Fringe | 38.00 | 27.76 | 0.73061 |
| 14 - Rural Major Collector | 4 - Suburban | 41.00 | 49.22 | 1.20059 |
| 14 - Rural Major Collector | 5 - Rural | 53.00 | 54.06 | 1.02009 |
| 15 - Rural Collector | 3 - Urban Fringe | 36.00 | 24.07 | 0.66864 |
| 15 - Rural Collector | 4 - Suburban | 40.00 | 35.58 | 0.88938 |
| 15 - Rural Collector | 5 - Rural | 49.00 | 49.86 | 1.01762 |

¹ Based on 2012 TDM data.

² Calculated from detailed speed model runs by H-GAC with link volumes set to 0 (V/C=0).

³ When input speeds are not available, speed factors are taken from the nearest area type.

LOS E (V/C=1) Speed Factors for Houston/Galveston Speed Model

| Functional Class Code and Description | Area Type Code and Description | Distance Weighted Input Speeds ¹ | Distance Weighted Free-Flow Speeds ² | Free-Flow Speed Factor ³ |
|---------------------------------------|--------------------------------|---|---|-------------------------------------|
| 1 - Urban Interstate | 1 - CBD | 50.85 | 34.35 | 0.67549 |
| 1 - Urban Interstate | 2 - Urban | 52.55 | 34.35 | 0.65370 |
| 2 - Urban Other Freeway | 1 - CBD | N/A | 35.00 | 0.67308 |
| 2 - Urban Other Freeway | 2 - Urban | 52.00 | 35.00 | 0.67308 |
| 3 - Toll Road | 1 - CBD | N/A | 24.77 | 0.43011 |
| 3 - Toll Road | 2 - Urban | 57.58 | 24.77 | 0.43011 |
| 3 - Toll Road | 3 - Urban Fringe | 61.69 | 26.52 | 0.42983 |
| 3 - Toll Road | 4 - Suburban | 64.34 | 29.54 | 0.45920 |
| 3 - Toll Road | 5 - Rural | 59.13 | 29.70 | 0.50229 |
| 4 - Ramp | 1 - CBD | 28.62 | 31.68 | 1.10692 |
| 4 - Ramp | 2 - Urban | 40.06 | 30.03 | 0.74952 |
| 4 - Ramp | 3 - Urban Fringe | 43.22 | 33.24 | 0.76908 |
| 4 - Ramp | 4 - Suburban | 44.82 | 41.22 | 0.91979 |
| 4 - Ramp | 5 - Rural | 55.16 | 49.01 | 0.88861 |
| 5 - Urban Principal Arterial | 1 - CBD | 24.72 | 22.13 | 0.89529 |
| 5 - Urban Principal Arterial | 2 - Urban | 35.78 | 24.44 | 0.68294 |
| 6 - Urban Other Arterial | 1 - CBD | 22.00 | 20.80 | 0.94565 |
| 6 - Urban Other Arterial | 2 - Urban | 34.57 | 22.76 | 0.65833 |
| 7 - Urban Collector | 1 - CBD | 20.94 | 20.06 | 0.95782 |
| 7 - Urban Collector | 2 - Urban | 35.36 | 21.23 | 0.60033 |
| 10 - Rural Interstate | 3 - Urban Fringe | 57.84 | 39.25 | 0.67860 |
| 10 - Rural Interstate | 4 - Suburban | 59.15 | 49.08 | 0.82973 |
| 10 - Rural Interstate | 5 - Rural | 62.00 | 49.08 | 0.79157 |
| 11 - Rural Other Freeway | 3 - Urban Fringe | 62.00 | 40.00 | 0.64516 |
| 11 - Rural Other Freeway | 4 - Suburban | 62.00 | 50.00 | 0.80645 |
| 11 - Rural Other Freeway | 5 - Rural | 64.00 | 50.00 | 0.78125 |
| 12 - Rural Principal Arterial | 3 - Urban Fringe | 40.23 | 27.30 | 0.67871 |
| 12 - Rural Principal Arterial | 4 - Suburban | 46.12 | 32.64 | 0.70784 |
| 12 - Rural Principal Arterial | 5 - Rural | 60.00 | 38.32 | 0.63858 |
| 13 - Rural Other Arterial | 3 - Urban Fringe | 39.05 | 24.81 | 0.63540 |
| 13 - Rural Other Arterial | 4 - Suburban | 43.03 | 30.15 | 0.70070 |
| 13 - Rural Other Arterial | 5 - Rural | 53.97 | 38.46 | 0.71270 |
| 14 - Rural Major Collector | 3 - Urban Fringe | 38.00 | 22.22 | 0.58465 |
| 14 - Rural Major Collector | 4 - Suburban | 41.00 | 34.09 | 0.83151 |
| 14 - Rural Major Collector | 5 - Rural | 53.00 | 36.83 | 0.69499 |
| 15 - Rural Collector | 3 - Urban Fringe | 36.00 | 19.74 | 0.54845 |
| 15 - Rural Collector | 4 - Suburban | 40.00 | 26.40 | 0.65994 |
| 15 - Rural Collector | 5 - Rural | 49.00 | 34.33 | 0.70057 |

¹ Based on 2012 TDM data.

² Calculated from detailed speed model runs by H-GAC with link volumes set to 0 (V/C=0).

³ When input speeds are not available, speed factors are taken from the nearest area type.

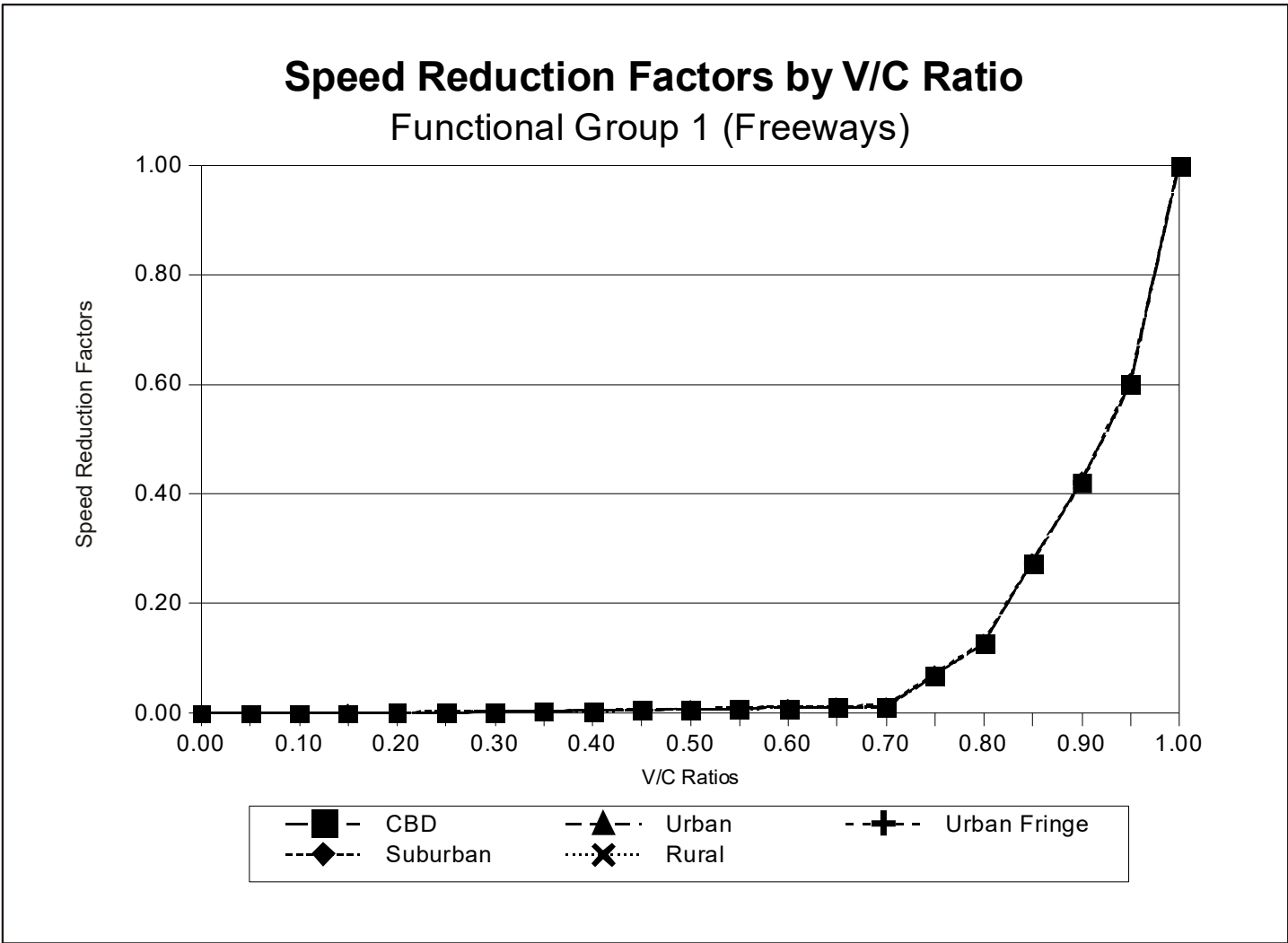


Figure 1. Freeway Speed Reduction Factors by V/C Ratio.

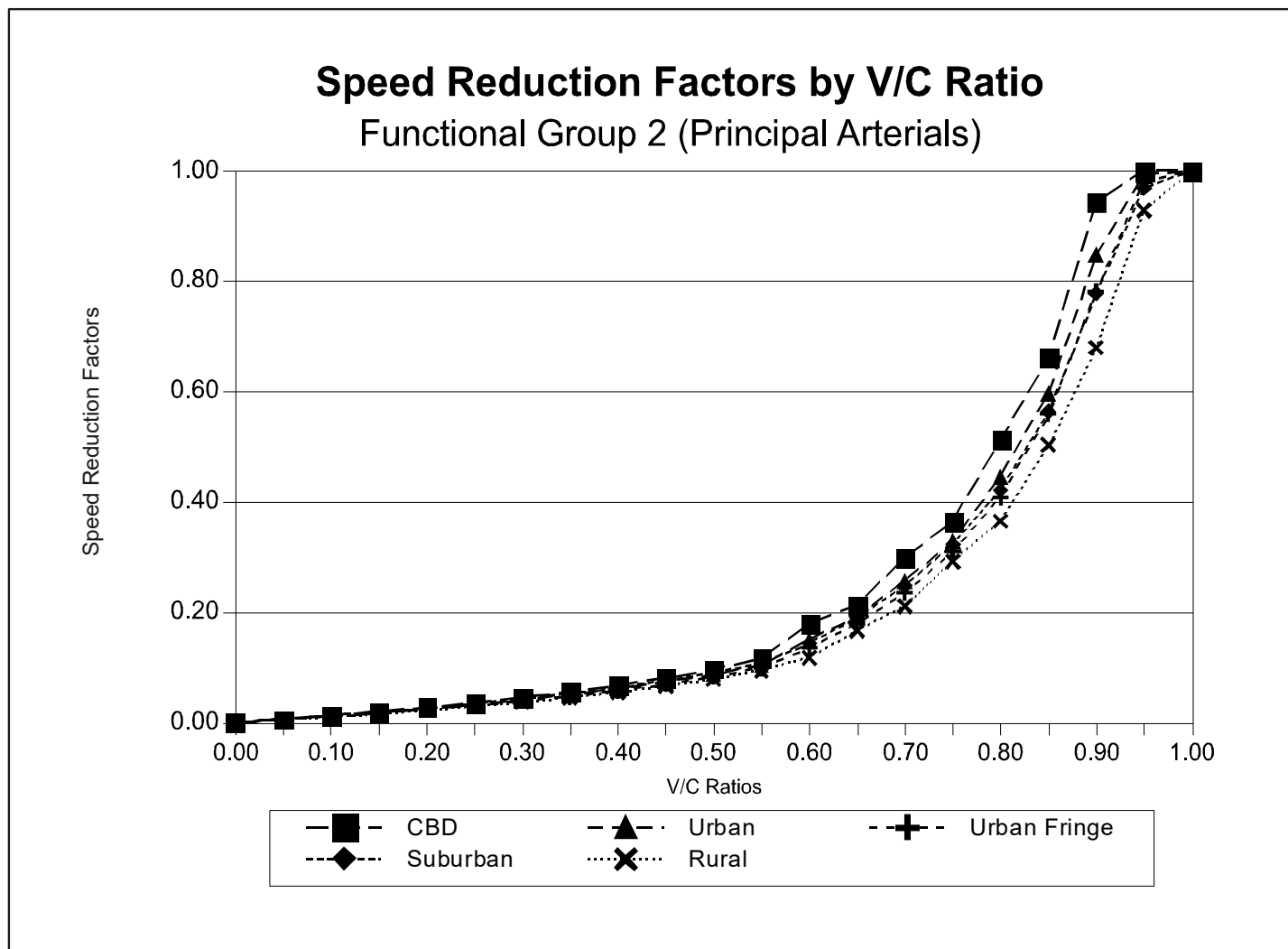


Figure 2. Principal Arterial Speed Reduction Factors by V/C Ratio.

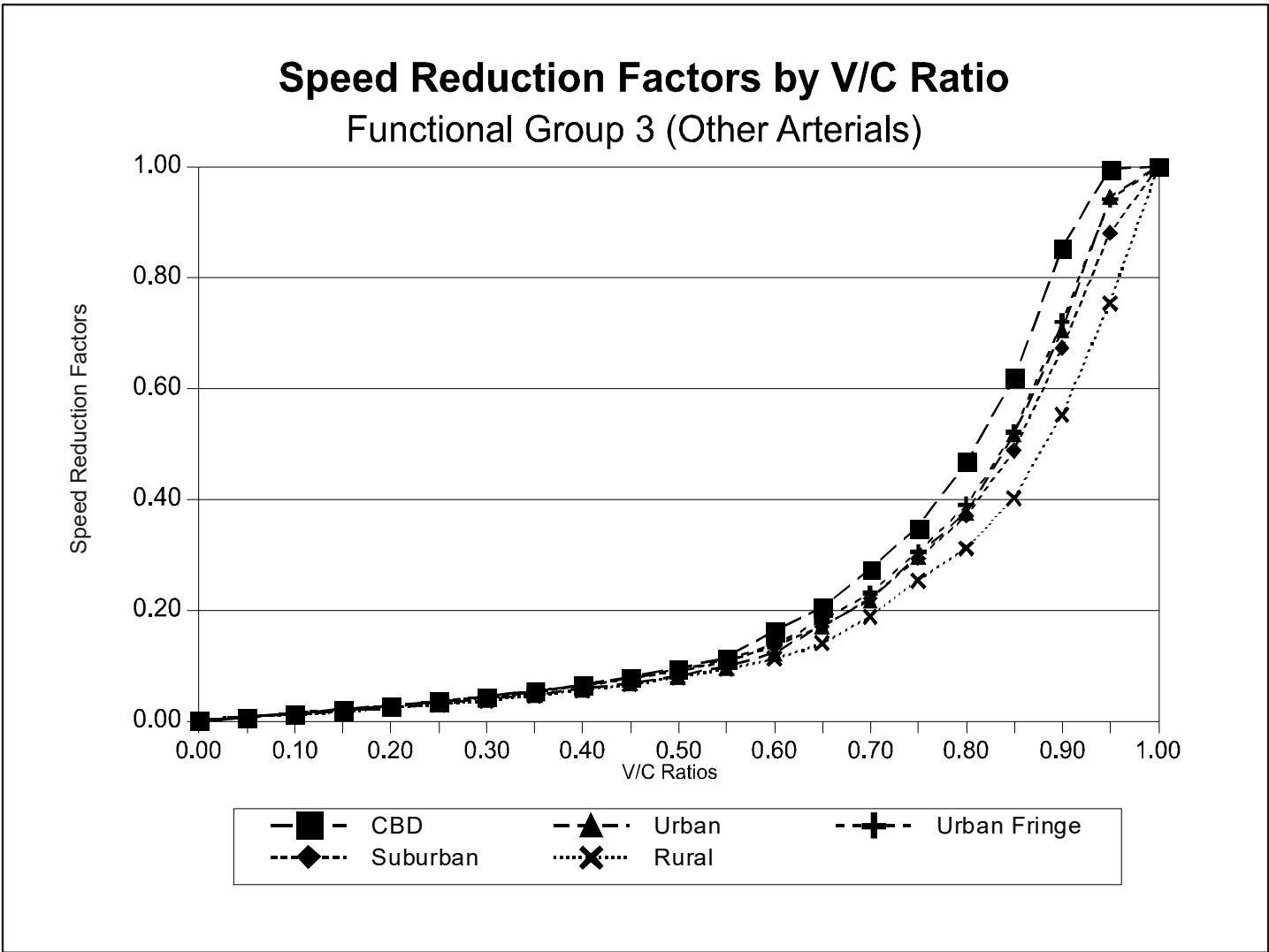


Figure 3. Other Arterial Speed Reduction Factors by V/C Ratio.

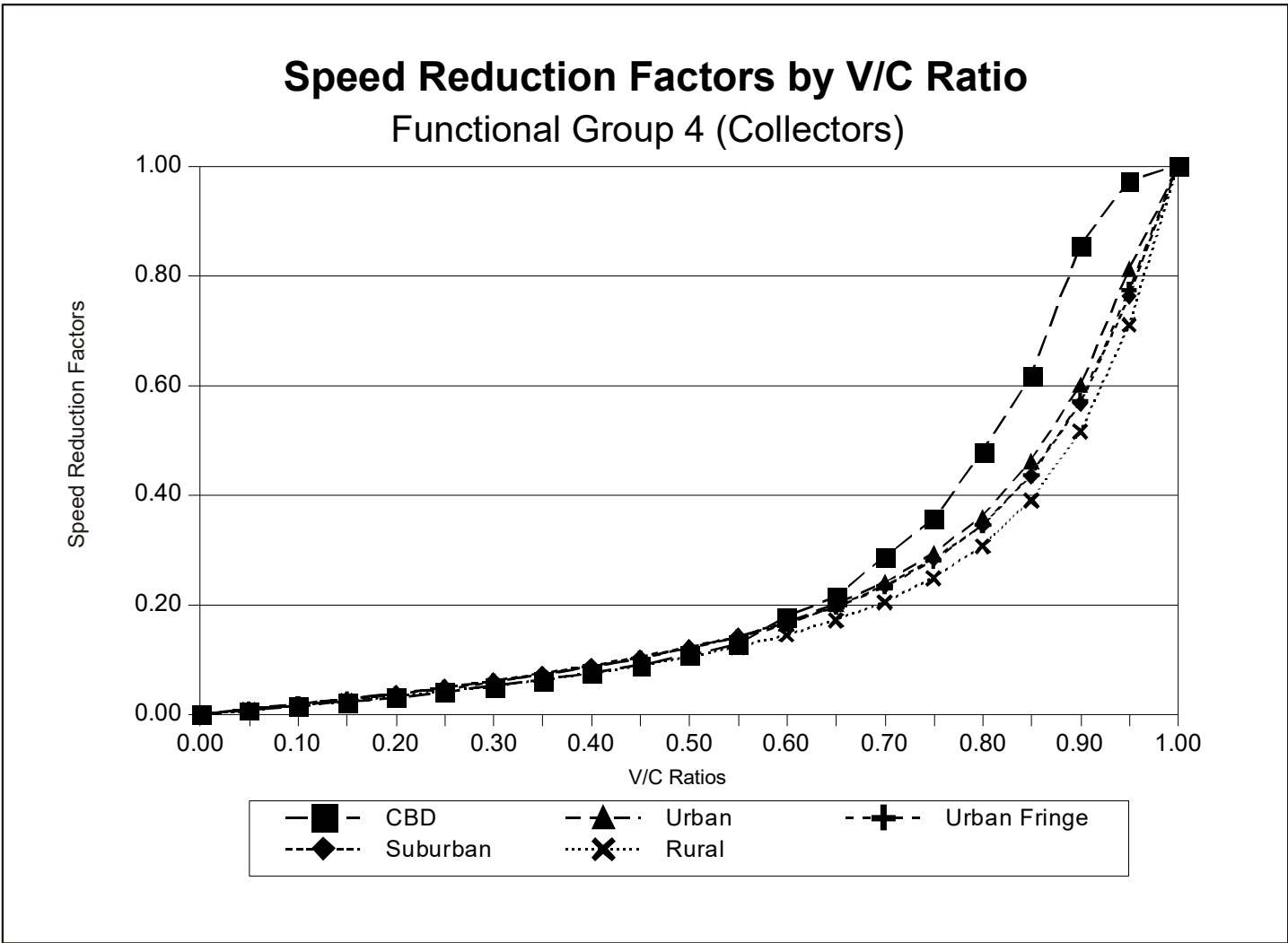


Figure 4. Collector Speed Reduction Factors by V/C Ratio.

Functional Classification to Functional Group Relationship for the Application of Speed Reduction Factors.

| Functional Group | Corresponding Network Functional Classifications |
|--------------------------------------|---|
| 1. Freeways, Interstates | 1. Urban Interstate Freeways 2. Urban Other Freeways 3. Toll Roads 10. Rural Interstate Freeways 11. Rural Other Freeways |
| 2. Principal Arterials | 5. Urban Principal Arterials 12. Rural Principal Arterials |
| 3. Other Arterials, Major Collectors | 6. Urban Other Arterials 13. Rural Other Arterials 14. Rural Major Collectors |
| 4. Collectors | 4. Ramps 7. Urban Collectors 15. Rural Collectors |

APPENDIX F: VEHICLE POPULATION ESTIMATES AND 24-HOUR SHP, STARTS, SHEI, AND APU SUMMARIES

TxDOT District/HGB Counties

| TxDOT District | District Code | HGB County | County FIPS |
|----------------|---------------|------------|-------------|
| Beaumont | D05 | Chambers | 48071 |
| Beaumont | D05 | Liberty | 48291 |
| Houston | D13 | Brazoria | 48039 |
| Houston | D13 | Fort Bend | 48157 |
| Houston | D13 | Galveston | 48167 |
| Houston | D13 | Harris | 48201 |
| Houston | D13 | Montgomery | 48339 |
| Houston | D13 | Waller | 48473 |

2011 Vehicle Population Estimates by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|---------|---------|-----------|--------|---------|--------|
| 11_G | 3,673 | 609 | 4,946 | 4,914 | 30,191 | 1,155 | 7,427 | 638 |
| 21_G | 126,792 | 19,243 | 338,639 | 139,800 | 2,003,807 | 33,939 | 257,092 | 19,141 |
| 21_D | 509 | 77 | 1,360 | 562 | 8,050 | 136 | 1,033 | 77 |
| 31_G | 40,408 | 9,234 | 51,615 | 40,833 | 455,169 | 17,714 | 69,316 | 8,583 |
| 31_D | 574 | 131 | 733 | 580 | 6,467 | 252 | 985 | 122 |
| 32_G | 10,069 | 2,301 | 12,862 | 10,175 | 113,424 | 4,414 | 17,273 | 2,139 |
| 32_D | 563 | 129 | 719 | 569 | 6,344 | 247 | 966 | 120 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 309 | 124 | 296 | 265 | 2,681 | 169 | 538 | 93 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 126 | 51 | 121 | 108 | 1,093 | 70 | 220 | 38 |
| 43_G | 3 | 2 | 3 | 3 | 26 | 2 | 5 | 1 |
| 43_D | 397 | 160 | 379 | 340 | 3,436 | 218 | 690 | 120 |
| 51_G | 192 | 48 | 184 | 165 | 1,666 | 65 | 334 | 58 |
| 51_D | 183 | 85 | 175 | 157 | 1,588 | 116 | 319 | 55 |
| 52_G | 3,810 | 1,041 | 3,641 | 3,265 | 33,007 | 1,419 | 6,627 | 1,150 |
| 52_D | 3,618 | 1,859 | 3,457 | 3,100 | 31,341 | 2,534 | 6,293 | 1,092 |
| 53_G | 565 | 36 | 540 | 484 | 4,894 | 50 | 983 | 170 |
| 53_D | 535 | 65 | 511 | 458 | 4,633 | 89 | 930 | 161 |
| 54_G | 147 | 36 | 141 | 126 | 1,275 | 49 | 256 | 44 |
| 54_D | 138 | 65 | 132 | 118 | 1,197 | 88 | 240 | 42 |
| 61_G | 148 | 72 | 298 | 79 | 3,926 | 118 | 297 | 61 |
| 61_D | 1,710 | 720 | 3,441 | 909 | 45,353 | 1,173 | 3,436 | 707 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 6,151 | 2,621 | 12,376 | 3,271 | 163,139 | 4,273 | 12,358 | 2,544 |

2017 Vehicle Population Estimates by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|---------|---------|-----------|--------|---------|--------|
| 11_G | 5,239 | 660 | 6,394 | 6,120 | 35,178 | 1,228 | 9,244 | 768 |
| 21_G | 180,297 | 20,817 | 436,430 | 173,565 | 2,327,728 | 35,975 | 319,025 | 22,983 |
| 21_D | 1,271 | 147 | 3,076 | 1,223 | 16,406 | 254 | 2,249 | 162 |
| 31_G | 57,731 | 10,048 | 66,834 | 50,935 | 531,245 | 18,886 | 86,420 | 10,355 |
| 31_D | 940 | 153 | 1,088 | 829 | 8,651 | 288 | 1,407 | 169 |
| 32_G | 14,167 | 2,463 | 16,401 | 12,500 | 130,369 | 4,630 | 21,208 | 2,541 |
| 32_D | 778 | 135 | 901 | 687 | 7,162 | 254 | 1,165 | 140 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 141 | 43 | 122 | 106 | 1,000 | 58 | 214 | 36 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 278 | 85 | 241 | 208 | 1,969 | 114 | 422 | 71 |
| 43_G | 9 | 3 | 7 | 6 | 61 | 4 | 13 | 2 |
| 43_D | 766 | 235 | 664 | 573 | 5,424 | 314 | 1,163 | 195 |
| 51_G | 283 | 53 | 245 | 211 | 2,000 | 71 | 429 | 72 |
| 51_D | 270 | 94 | 234 | 202 | 1,909 | 126 | 409 | 69 |
| 52_G | 5,412 | 1,126 | 4,687 | 4,049 | 38,298 | 1,504 | 8,214 | 1,379 |
| 52_D | 5,138 | 2,011 | 4,449 | 3,844 | 36,359 | 2,686 | 7,798 | 1,309 |
| 53_G | 801 | 40 | 693 | 599 | 5,666 | 53 | 1,215 | 204 |
| 53_D | 762 | 71 | 660 | 570 | 5,393 | 95 | 1,157 | 194 |
| 54_G | 223 | 41 | 193 | 167 | 1,576 | 55 | 338 | 57 |
| 54_D | 210 | 75 | 182 | 157 | 1,485 | 100 | 318 | 53 |
| 61_G | 211 | 78 | 385 | 98 | 4,575 | 125 | 370 | 74 |
| 61_D | 2,439 | 781 | 4,447 | 1,132 | 52,843 | 1,247 | 4,276 | 852 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 8,774 | 2,843 | 15,998 | 4,073 | 190,082 | 4,543 | 15,382 | 3,064 |

2018 Vehicle Population Estimates by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|---------|---------|-----------|--------|---------|--------|
| 11_G | 5,405 | 668 | 6,797 | 6,213 | 36,182 | 1,254 | 9,617 | 786 |
| 21_G | 185,619 | 21,017 | 462,995 | 175,856 | 2,389,345 | 36,650 | 331,244 | 23,469 |
| 21_D | 1,687 | 191 | 4,208 | 1,598 | 21,715 | 333 | 3,010 | 213 |
| 31_G | 59,438 | 10,134 | 70,907 | 51,610 | 545,339 | 19,220 | 89,735 | 10,575 |
| 31_D | 1,089 | 186 | 1,299 | 945 | 9,989 | 353 | 1,644 | 194 |
| 32_G | 14,600 | 2,489 | 17,417 | 12,677 | 133,955 | 4,721 | 22,042 | 2,598 |
| 32_D | 816 | 139 | 973 | 708 | 7,485 | 264 | 1,232 | 145 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 146 | 44 | 130 | 107 | 1,029 | 59 | 223 | 37 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 287 | 87 | 256 | 212 | 2,027 | 118 | 440 | 73 |
| 43_G | 9 | 3 | 8 | 7 | 62 | 4 | 14 | 2 |
| 43_D | 791 | 237 | 706 | 583 | 5,582 | 320 | 1,211 | 200 |
| 51_G | 283 | 53 | 252 | 208 | 1,996 | 71 | 433 | 71 |
| 51_D | 270 | 94 | 241 | 199 | 1,902 | 126 | 413 | 68 |
| 52_G | 5,604 | 1,142 | 5,001 | 4,127 | 39,543 | 1,540 | 8,579 | 1,416 |
| 52_D | 5,321 | 2,040 | 4,749 | 3,918 | 37,547 | 2,750 | 8,146 | 1,345 |
| 53_G | 831 | 40 | 741 | 612 | 5,863 | 54 | 1,272 | 210 |
| 53_D | 787 | 72 | 702 | 579 | 5,551 | 97 | 1,204 | 199 |
| 54_G | 217 | 39 | 193 | 159 | 1,528 | 53 | 332 | 55 |
| 54_D | 203 | 71 | 181 | 150 | 1,435 | 96 | 311 | 51 |
| 61_G | 218 | 79 | 409 | 99 | 4,703 | 128 | 385 | 75 |
| 61_D | 2,516 | 790 | 4,728 | 1,150 | 54,354 | 1,273 | 4,449 | 872 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 7,949 | 2,526 | 14,935 | 3,631 | 171,703 | 4,072 | 14,054 | 2,753 |

2020 Vehicle Population Estimates by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|---------|---------|-----------|--------|---------|--------|
| 11_G | 5,666 | 733 | 7,785 | 6,263 | 37,450 | 1,586 | 10,193 | 847 |
| 21_G | 194,583 | 23,049 | 530,313 | 177,274 | 2,473,110 | 46,347 | 351,069 | 25,304 |
| 21_D | 1,768 | 209 | 4,820 | 1,611 | 22,477 | 421 | 3,191 | 230 |
| 31_G | 62,309 | 11,113 | 81,216 | 52,026 | 564,457 | 24,305 | 95,105 | 11,402 |
| 31_D | 1,141 | 204 | 1,488 | 953 | 10,339 | 446 | 1,742 | 209 |
| 32_G | 15,305 | 2,730 | 19,950 | 12,780 | 138,651 | 5,970 | 23,361 | 2,801 |
| 32_D | 855 | 153 | 1,115 | 714 | 7,747 | 334 | 1,305 | 156 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 153 | 48 | 149 | 108 | 1,065 | 74 | 237 | 40 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 301 | 96 | 294 | 213 | 2,098 | 149 | 466 | 78 |
| 43_G | 9 | 3 | 9 | 7 | 65 | 5 | 14 | 2 |
| 43_D | 829 | 260 | 809 | 587 | 5,778 | 404 | 1,284 | 216 |
| 51_G | 297 | 58 | 289 | 210 | 2,066 | 90 | 459 | 77 |
| 51_D | 283 | 103 | 276 | 200 | 1,969 | 160 | 437 | 73 |
| 52_G | 5,875 | 1,253 | 5,728 | 4,160 | 40,929 | 1,947 | 9,092 | 1,527 |
| 52_D | 5,578 | 2,238 | 5,439 | 3,950 | 38,863 | 3,478 | 8,633 | 1,450 |
| 53_G | 871 | 44 | 849 | 617 | 6,068 | 68 | 1,348 | 226 |
| 53_D | 825 | 79 | 804 | 584 | 5,746 | 122 | 1,276 | 214 |
| 54_G | 227 | 43 | 221 | 161 | 1,582 | 67 | 351 | 59 |
| 54_D | 213 | 78 | 208 | 151 | 1,485 | 121 | 330 | 55 |
| 61_G | 228 | 87 | 469 | 100 | 4,868 | 161 | 408 | 81 |
| 61_D | 2,638 | 866 | 5,415 | 1,159 | 56,260 | 1,610 | 4,715 | 940 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 8,333 | 2,770 | 17,107 | 3,661 | 177,722 | 5,149 | 14,896 | 2,969 |

2023 Vehicle Population Estimates by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|---------|---------|-----------|--------|---------|--------|
| 11_G | 5,929 | 772 | 8,657 | 6,514 | 39,431 | 1,668 | 10,956 | 924 |
| 21_G | 203,211 | 24,239 | 588,496 | 183,991 | 2,598,680 | 48,638 | 376,603 | 27,544 |
| 21_D | 2,260 | 270 | 6,545 | 2,046 | 28,904 | 541 | 4,189 | 306 |
| 31_G | 65,136 | 11,699 | 90,216 | 54,051 | 593,703 | 25,532 | 102,123 | 12,423 |
| 31_D | 1,261 | 227 | 1,747 | 1,047 | 11,496 | 495 | 1,978 | 241 |
| 32_G | 16,016 | 2,877 | 22,183 | 13,291 | 145,985 | 6,278 | 25,111 | 3,055 |
| 32_D | 895 | 161 | 1,239 | 743 | 8,157 | 352 | 1,403 | 171 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 160 | 50 | 166 | 113 | 1,122 | 78 | 254 | 43 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 320 | 101 | 332 | 225 | 2,243 | 156 | 509 | 87 |
| 43_G | 10 | 3 | 10 | 7 | 68 | 5 | 15 | 3 |
| 43_D | 863 | 273 | 894 | 607 | 6,049 | 424 | 1,372 | 234 |
| 51_G | 310 | 61 | 321 | 218 | 2,175 | 94 | 493 | 84 |
| 51_D | 296 | 108 | 306 | 208 | 2,073 | 168 | 470 | 80 |
| 52_G | 6,162 | 1,323 | 6,385 | 4,337 | 43,196 | 2,052 | 9,797 | 1,669 |
| 52_D | 5,852 | 2,363 | 6,063 | 4,118 | 41,021 | 3,665 | 9,303 | 1,585 |
| 53_G | 911 | 46 | 944 | 641 | 6,389 | 72 | 1,449 | 247 |
| 53_D | 868 | 83 | 899 | 611 | 6,083 | 129 | 1,380 | 235 |
| 54_G | 223 | 43 | 231 | 157 | 1,563 | 67 | 355 | 60 |
| 54_D | 208 | 77 | 216 | 147 | 1,461 | 119 | 331 | 56 |
| 61_G | 239 | 91 | 521 | 104 | 5,124 | 170 | 438 | 89 |
| 61_D | 2,760 | 913 | 6,022 | 1,205 | 59,237 | 1,693 | 5,069 | 1,025 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 8,321 | 2,785 | 18,153 | 3,633 | 178,575 | 5,167 | 15,280 | 3,090 |

2026 Vehicle Population Estimates by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|---------|---------|-----------|--------|---------|--------|
| 11_G | 6,321 | 782 | 9,403 | 6,734 | 41,103 | 1,720 | 11,586 | 975 |
| 21_G | 216,641 | 24,555 | 639,203 | 190,207 | 2,708,867 | 50,174 | 398,245 | 29,063 |
| 21_D | 2,410 | 273 | 7,109 | 2,116 | 30,129 | 558 | 4,429 | 323 |
| 31_G | 69,440 | 11,851 | 97,989 | 55,877 | 618,876 | 26,339 | 107,992 | 13,108 |
| 31_D | 1,345 | 230 | 1,897 | 1,082 | 11,984 | 510 | 2,091 | 254 |
| 32_G | 17,075 | 2,914 | 24,095 | 13,740 | 152,175 | 6,476 | 26,554 | 3,223 |
| 32_D | 954 | 163 | 1,346 | 768 | 8,503 | 363 | 1,484 | 180 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 171 | 51 | 180 | 116 | 1,169 | 81 | 269 | 46 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 341 | 102 | 360 | 233 | 2,338 | 161 | 538 | 91 |
| 43_G | 10 | 3 | 11 | 7 | 71 | 5 | 16 | 3 |
| 43_D | 920 | 277 | 971 | 628 | 6,306 | 437 | 1,451 | 247 |
| 51_G | 331 | 62 | 349 | 226 | 2,267 | 97 | 522 | 89 |
| 51_D | 315 | 110 | 333 | 215 | 2,161 | 173 | 497 | 85 |
| 52_G | 6,570 | 1,341 | 6,935 | 4,483 | 45,027 | 2,117 | 10,359 | 1,761 |
| 52_D | 6,239 | 2,394 | 6,586 | 4,257 | 42,760 | 3,781 | 9,838 | 1,673 |
| 53_G | 972 | 47 | 1,026 | 663 | 6,660 | 74 | 1,532 | 261 |
| 53_D | 925 | 84 | 977 | 631 | 6,341 | 133 | 1,459 | 248 |
| 54_G | 238 | 44 | 251 | 162 | 1,630 | 69 | 375 | 64 |
| 54_D | 222 | 78 | 235 | 152 | 1,523 | 123 | 350 | 60 |
| 61_G | 255 | 93 | 566 | 108 | 5,341 | 175 | 464 | 94 |
| 61_D | 2,943 | 925 | 6,541 | 1,246 | 61,749 | 1,747 | 5,360 | 1,082 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 8,871 | 2,822 | 19,717 | 3,756 | 186,146 | 5,331 | 16,158 | 3,260 |

2027 Vehicle Population Estimates by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|---------|---------|-----------|--------|---------|--------|
| 11_G | 6,413 | 784 | 9,639 | 6,784 | 41,694 | 1,734 | 11,823 | 997 |
| 21_G | 219,801 | 24,610 | 655,272 | 191,619 | 2,747,799 | 50,575 | 406,398 | 29,711 |
| 21_D | 2,445 | 274 | 7,288 | 2,131 | 30,562 | 562 | 4,520 | 330 |
| 31_G | 70,453 | 11,878 | 100,453 | 56,292 | 627,771 | 26,549 | 110,203 | 13,401 |
| 31_D | 1,364 | 230 | 1,945 | 1,090 | 12,156 | 514 | 2,134 | 259 |
| 32_G | 17,324 | 2,921 | 24,700 | 13,842 | 154,362 | 6,528 | 27,098 | 3,295 |
| 32_D | 968 | 164 | 1,380 | 773 | 8,625 | 366 | 1,514 | 184 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 173 | 51 | 185 | 117 | 1,186 | 81 | 274 | 47 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 346 | 102 | 369 | 235 | 2,372 | 163 | 549 | 94 |
| 43_G | 10 | 3 | 11 | 7 | 72 | 5 | 17 | 3 |
| 43_D | 933 | 277 | 996 | 632 | 6,397 | 440 | 1,481 | 252 |
| 51_G | 336 | 62 | 358 | 227 | 2,300 | 98 | 532 | 91 |
| 51_D | 320 | 110 | 341 | 217 | 2,192 | 174 | 507 | 86 |
| 52_G | 6,665 | 1,344 | 7,109 | 4,516 | 45,674 | 2,134 | 10,572 | 1,801 |
| 52_D | 6,330 | 2,399 | 6,751 | 4,289 | 43,375 | 3,811 | 10,039 | 1,710 |
| 53_G | 986 | 47 | 1,052 | 668 | 6,756 | 75 | 1,564 | 266 |
| 53_D | 939 | 84 | 1,001 | 636 | 6,433 | 134 | 1,489 | 254 |
| 54_G | 241 | 44 | 257 | 163 | 1,653 | 69 | 383 | 65 |
| 54_D | 225 | 78 | 241 | 153 | 1,545 | 124 | 358 | 61 |
| 61_G | 258 | 93 | 580 | 109 | 5,418 | 176 | 473 | 96 |
| 61_D | 2,986 | 927 | 6,705 | 1,255 | 62,636 | 1,761 | 5,470 | 1,106 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 9,001 | 2,828 | 20,213 | 3,784 | 188,822 | 5,373 | 16,489 | 3,333 |

2011 24-Hour Weekday ONI Hour Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|--------|-------|--------|--------|---------|-------|--------|-------|
| 11_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21_G | 30,587 | 9,488 | 52,333 | 33,300 | 591,807 | 8,688 | 58,631 | 8,538 |
| 21_D | 123 | 38 | 210 | 134 | 2,378 | 35 | 236 | 34 |
| 31_G | 9,049 | 4,637 | 15,084 | 8,682 | 152,200 | 4,067 | 17,877 | 2,918 |
| 31_D | 128 | 66 | 214 | 123 | 2,160 | 58 | 254 | 41 |
| 32_G | 2,255 | 1,155 | 3,759 | 2,163 | 37,928 | 1,014 | 4,455 | 727 |
| 32_D | 126 | 65 | 210 | 121 | 2,122 | 57 | 249 | 41 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 69 | 48 | 127 | 76 | 1,582 | 44 | 145 | 20 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 19 | 16 | 34 | 19 | 373 | 13 | 41 | 6 |
| 43_G | 0 | 0 | 1 | 0 | 6 | 0 | 1 | 0 |
| 43_D | 36 | 32 | 61 | 33 | 598 | 26 | 78 | 13 |
| 51_G | 87 | 34 | 143 | 76 | 1,414 | 28 | 176 | 31 |
| 51_D | 82 | 60 | 135 | 72 | 1,339 | 50 | 167 | 29 |
| 52_G | 997 | 435 | 1,634 | 855 | 15,350 | 366 | 2,028 | 367 |
| 52_D | 946 | 778 | 1,551 | 812 | 14,574 | 653 | 1,926 | 348 |
| 53_G | 148 | 15 | 242 | 127 | 2,276 | 13 | 300 | 54 |
| 53_D | 140 | 27 | 230 | 120 | 2,162 | 23 | 286 | 52 |
| 54_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54_D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61_G | 53 | 46 | 85 | 41 | 714 | 37 | 109 | 21 |
| 61_D | 609 | 463 | 974 | 474 | 8,221 | 368 | 1,251 | 242 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 673 | 553 | 1,052 | 468 | 7,000 | 436 | 1,387 | 292 |

2017 24-Hour Weekday ONI Hour Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|--------|-------|--------|--------|---------|-------|--------|--------|
| 11_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21_G | 42,230 | 8,692 | 69,724 | 38,387 | 665,127 | 8,950 | 75,488 | 10,025 |
| 21_D | 298 | 61 | 492 | 271 | 4,689 | 63 | 532 | 71 |
| 31_G | 11,901 | 4,090 | 18,626 | 9,903 | 171,768 | 4,027 | 21,028 | 3,161 |
| 31_D | 193 | 62 | 303 | 161 | 2,793 | 61 | 342 | 51 |
| 32_G | 2,920 | 1,003 | 4,571 | 2,430 | 42,150 | 987 | 5,160 | 776 |
| 32_D | 160 | 55 | 251 | 133 | 2,313 | 54 | 283 | 43 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 31 | 10 | 53 | 29 | 536 | 15 | 59 | 7 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 45 | 18 | 71 | 39 | 726 | 24 | 85 | 13 |
| 43_G | 1 | 0 | 1 | 1 | 13 | 0 | 2 | 0 |
| 43_D | 79 | 33 | 116 | 63 | 1,176 | 45 | 146 | 24 |
| 51_G | 107 | 25 | 164 | 88 | 1,543 | 26 | 191 | 31 |
| 51_D | 102 | 45 | 156 | 83 | 1,462 | 47 | 182 | 30 |
| 52_G | 1,212 | 320 | 1,818 | 960 | 16,858 | 339 | 2,141 | 354 |
| 52_D | 1,151 | 571 | 1,726 | 912 | 16,006 | 605 | 2,032 | 336 |
| 53_G | 179 | 11 | 269 | 142 | 2,497 | 12 | 317 | 52 |
| 53_D | 170 | 20 | 255 | 135 | 2,369 | 21 | 301 | 50 |
| 54_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54_D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61_G | 72 | 71 | 94 | 49 | 824 | 37 | 121 | 28 |
| 61_D | 831 | 711 | 1,085 | 561 | 9,482 | 367 | 1,392 | 324 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 945 | 867 | 1,131 | 560 | 9,290 | 447 | 1,551 | 384 |

2018 24-Hour Weekday ONI Hour Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|--------|-------|--------|--------|---------|-------|--------|-------|
| 11_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21_G | 41,890 | 8,085 | 72,839 | 38,177 | 662,798 | 8,803 | 77,191 | 9,379 |
| 21_D | 381 | 73 | 662 | 347 | 6,021 | 80 | 701 | 85 |
| 31_G | 11,598 | 3,819 | 19,314 | 9,904 | 171,456 | 3,914 | 21,100 | 2,934 |
| 31_D | 213 | 70 | 354 | 181 | 3,141 | 72 | 387 | 54 |
| 32_G | 2,849 | 938 | 4,744 | 2,433 | 42,113 | 961 | 5,183 | 721 |
| 32_D | 159 | 52 | 265 | 136 | 2,357 | 54 | 290 | 40 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 33 | 11 | 58 | 29 | 547 | 16 | 62 | 8 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 51 | 19 | 81 | 41 | 790 | 27 | 93 | 14 |
| 43_G | 1 | 0 | 2 | 1 | 15 | 0 | 2 | 0 |
| 43_D | 90 | 36 | 134 | 69 | 1,319 | 49 | 160 | 27 |
| 51_G | 102 | 23 | 167 | 82 | 1,457 | 25 | 185 | 30 |
| 51_D | 97 | 41 | 158 | 77 | 1,382 | 45 | 176 | 28 |
| 52_G | 1,194 | 302 | 1,902 | 937 | 16,401 | 331 | 2,138 | 349 |
| 52_D | 1,133 | 540 | 1,806 | 890 | 15,572 | 591 | 2,030 | 332 |
| 53_G | 177 | 11 | 282 | 139 | 2,430 | 12 | 317 | 52 |
| 53_D | 168 | 19 | 268 | 132 | 2,307 | 21 | 301 | 49 |
| 54_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54_D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61_G | 81 | 83 | 115 | 51 | 922 | 41 | 136 | 32 |
| 61_D | 932 | 828 | 1,316 | 585 | 10,598 | 411 | 1,562 | 371 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 948 | 894 | 1,249 | 559 | 9,593 | 445 | 1,544 | 393 |

2020 24-Hour Weekday ONI Hour Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|--------|-------|--------|--------|---------|--------|--------|--------|
| 11_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21_G | 44,189 | 8,963 | 83,773 | 38,535 | 688,163 | 11,193 | 82,243 | 10,150 |
| 21_D | 401 | 81 | 761 | 350 | 6,252 | 102 | 747 | 92 |
| 31_G | 12,220 | 4,239 | 22,230 | 9,997 | 178,104 | 4,974 | 22,476 | 3,178 |
| 31_D | 224 | 78 | 407 | 183 | 3,263 | 91 | 412 | 58 |
| 32_G | 3,002 | 1,041 | 5,460 | 2,455 | 43,746 | 1,222 | 5,521 | 781 |
| 32_D | 168 | 58 | 306 | 137 | 2,448 | 68 | 309 | 44 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 35 | 12 | 67 | 30 | 568 | 20 | 67 | 9 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 53 | 21 | 93 | 42 | 821 | 34 | 98 | 15 |
| 43_G | 1 | 0 | 2 | 1 | 15 | 1 | 2 | 0 |
| 43_D | 94 | 40 | 153 | 70 | 1,370 | 62 | 169 | 29 |
| 51_G | 107 | 26 | 192 | 82 | 1,515 | 32 | 198 | 32 |
| 51_D | 102 | 46 | 182 | 78 | 1,437 | 57 | 187 | 30 |
| 52_G | 1,255 | 338 | 2,195 | 945 | 17,045 | 422 | 2,277 | 378 |
| 52_D | 1,192 | 604 | 2,084 | 897 | 16,184 | 753 | 2,162 | 359 |
| 53_G | 186 | 12 | 325 | 140 | 2,525 | 15 | 337 | 56 |
| 53_D | 177 | 21 | 309 | 133 | 2,398 | 27 | 320 | 53 |
| 54_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54_D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61_G | 85 | 90 | 132 | 51 | 959 | 52 | 144 | 35 |
| 61_D | 977 | 902 | 1,520 | 590 | 11,024 | 521 | 1,656 | 398 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 993 | 974 | 1,439 | 564 | 9,973 | 564 | 1,632 | 421 |

2023 24-Hour Weekday ONI Hour Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|--------|-------|--------|--------|---------|--------|--------|--------|
| 11_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21_G | 47,306 | 9,397 | 92,742 | 40,027 | 723,903 | 11,511 | 88,331 | 11,212 |
| 21_D | 526 | 105 | 1,031 | 445 | 8,051 | 128 | 982 | 125 |
| 31_G | 13,226 | 4,449 | 24,753 | 10,395 | 187,711 | 5,143 | 24,176 | 3,506 |
| 31_D | 256 | 86 | 479 | 201 | 3,635 | 100 | 468 | 68 |
| 32_G | 3,252 | 1,094 | 6,086 | 2,556 | 46,153 | 1,265 | 5,944 | 862 |
| 32_D | 182 | 61 | 341 | 143 | 2,583 | 71 | 333 | 48 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 37 | 13 | 74 | 31 | 600 | 21 | 72 | 10 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 56 | 23 | 105 | 44 | 878 | 35 | 107 | 17 |
| 43_G | 1 | 0 | 2 | 1 | 16 | 1 | 2 | 0 |
| 43_D | 98 | 42 | 172 | 72 | 1,448 | 65 | 182 | 32 |
| 51_G | 117 | 27 | 215 | 86 | 1,600 | 34 | 213 | 35 |
| 51_D | 111 | 48 | 204 | 81 | 1,517 | 60 | 201 | 34 |
| 52_G | 1,371 | 355 | 2,457 | 984 | 18,038 | 442 | 2,454 | 418 |
| 52_D | 1,302 | 634 | 2,333 | 935 | 17,128 | 790 | 2,330 | 397 |
| 53_G | 203 | 13 | 364 | 146 | 2,673 | 16 | 364 | 62 |
| 53_D | 193 | 22 | 345 | 138 | 2,536 | 28 | 345 | 59 |
| 54_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54_D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61_G | 88 | 99 | 155 | 55 | 1,049 | 60 | 160 | 40 |
| 61_D | 1,011 | 989 | 1,781 | 634 | 12,082 | 594 | 1,843 | 462 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 976 | 1,020 | 1,621 | 579 | 10,444 | 614 | 1,734 | 467 |

2026 24-Hour Weekday ONI Hour Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|--------|-------|---------|--------|---------|--------|--------|--------|
| 11_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21_G | 50,808 | 9,542 | 101,002 | 41,432 | 757,206 | 11,896 | 94,054 | 11,883 |
| 21_D | 565 | 106 | 1,123 | 461 | 8,421 | 132 | 1,046 | 132 |
| 31_G | 14,215 | 4,518 | 27,067 | 10,761 | 196,484 | 5,319 | 25,731 | 3,722 |
| 31_D | 275 | 88 | 524 | 208 | 3,805 | 103 | 498 | 72 |
| 32_G | 3,495 | 1,111 | 6,655 | 2,646 | 48,310 | 1,308 | 6,327 | 915 |
| 32_D | 196 | 62 | 372 | 148 | 2,703 | 73 | 354 | 51 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 40 | 13 | 81 | 32 | 628 | 22 | 76 | 10 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 60 | 23 | 114 | 45 | 918 | 37 | 113 | 18 |
| 43_G | 1 | 0 | 2 | 1 | 17 | 1 | 2 | 0 |
| 43_D | 104 | 42 | 186 | 75 | 1,511 | 67 | 192 | 34 |
| 51_G | 126 | 28 | 236 | 89 | 1,678 | 35 | 227 | 38 |
| 51_D | 119 | 49 | 224 | 84 | 1,592 | 62 | 215 | 36 |
| 52_G | 1,472 | 361 | 2,696 | 1,018 | 18,912 | 458 | 2,614 | 443 |
| 52_D | 1,398 | 644 | 2,559 | 967 | 17,958 | 817 | 2,482 | 421 |
| 53_G | 218 | 13 | 399 | 151 | 2,803 | 16 | 387 | 66 |
| 53_D | 207 | 23 | 379 | 143 | 2,659 | 29 | 367 | 62 |
| 54_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54_D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61_G | 94 | 100 | 170 | 57 | 1,101 | 61 | 169 | 42 |
| 61_D | 1,087 | 1,000 | 1,952 | 656 | 12,677 | 612 | 1,950 | 483 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 1,049 | 1,030 | 1,774 | 600 | 10,928 | 632 | 1,826 | 487 |

2027 24-Hour Weekday ONI Hour Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|--------|-------|---------|--------|---------|--------|--------|--------|
| 11_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21_G | 51,607 | 9,566 | 103,623 | 41,776 | 769,204 | 12,003 | 96,124 | 12,166 |
| 21_D | 574 | 106 | 1,152 | 465 | 8,555 | 133 | 1,069 | 135 |
| 31_G | 14,447 | 4,530 | 27,820 | 10,847 | 199,645 | 5,367 | 26,306 | 3,814 |
| 31_D | 280 | 88 | 539 | 210 | 3,867 | 104 | 509 | 74 |
| 32_G | 3,552 | 1,114 | 6,840 | 2,667 | 49,087 | 1,320 | 6,468 | 938 |
| 32_D | 199 | 62 | 383 | 149 | 2,747 | 74 | 362 | 52 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 41 | 13 | 83 | 32 | 639 | 22 | 78 | 10 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 61 | 23 | 117 | 45 | 932 | 37 | 116 | 19 |
| 43_G | 1 | 0 | 2 | 1 | 17 | 1 | 2 | 0 |
| 43_D | 106 | 42 | 191 | 75 | 1,534 | 67 | 196 | 34 |
| 51_G | 128 | 28 | 243 | 89 | 1,707 | 35 | 232 | 38 |
| 51_D | 121 | 49 | 230 | 85 | 1,619 | 62 | 220 | 36 |
| 52_G | 1,497 | 362 | 2,775 | 1,026 | 19,228 | 462 | 2,674 | 454 |
| 52_D | 1,421 | 646 | 2,635 | 974 | 18,258 | 825 | 2,539 | 431 |
| 53_G | 222 | 13 | 411 | 152 | 2,850 | 16 | 396 | 67 |
| 53_D | 210 | 23 | 390 | 144 | 2,704 | 29 | 376 | 64 |
| 54_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54_D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61_G | 96 | 100 | 175 | 57 | 1,120 | 62 | 173 | 43 |
| 61_D | 1,108 | 1,002 | 2,012 | 661 | 12,893 | 617 | 1,992 | 491 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 1,069 | 1,032 | 1,828 | 604 | 11,101 | 637 | 1,863 | 496 |

2011 24-Hour Weekday Adjusted SHP Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|-----------|---------|-----------|-----------|------------|---------|-----------|---------|
| 11_G | 88,051 | 14,572 | 118,515 | 117,816 | 721,965 | 27,699 | 178,020 | 15,278 |
| 21_G | 2,900,064 | 419,263 | 7,876,910 | 3,194,217 | 44,878,242 | 775,236 | 5,892,991 | 421,171 |
| 21_D | 11,651 | 1,680 | 31,644 | 12,832 | 180,292 | 3,107 | 23,674 | 1,692 |
| 31_G | 927,970 | 200,945 | 1,167,665 | 938,383 | 10,108,693 | 406,888 | 1,580,304 | 193,031 |
| 31_D | 13,184 | 2,856 | 16,590 | 13,332 | 143,627 | 5,783 | 22,452 | 2,742 |
| 32_G | 231,241 | 50,070 | 290,970 | 233,835 | 2,518,973 | 101,386 | 393,796 | 48,102 |
| 32_D | 12,933 | 2,801 | 16,273 | 13,078 | 140,877 | 5,671 | 22,024 | 2,690 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 7,239 | 2,856 | 6,749 | 6,154 | 59,712 | 3,948 | 12,528 | 2,189 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 2,960 | 1,185 | 2,769 | 2,521 | 24,607 | 1,637 | 5,125 | 894 |
| 43_G | 70 | 38 | 65 | 59 | 574 | 53 | 121 | 21 |
| 43_D | 9,329 | 3,704 | 8,748 | 7,950 | 77,931 | 5,110 | 16,160 | 2,818 |
| 51_G | 4,424 | 1,080 | 4,094 | 3,784 | 36,705 | 1,510 | 7,641 | 1,326 |
| 51_D | 4,218 | 1,918 | 3,904 | 3,608 | 35,004 | 2,682 | 7,285 | 1,264 |
| 52_G | 88,398 | 23,703 | 82,331 | 75,639 | 740,086 | 32,973 | 152,874 | 26,524 |
| 52_D | 83,937 | 42,333 | 78,176 | 71,822 | 702,736 | 58,890 | 145,159 | 25,185 |
| 53_G | 13,107 | 829 | 12,207 | 11,215 | 109,729 | 1,154 | 22,667 | 3,933 |
| 53_D | 12,408 | 1,490 | 11,555 | 10,617 | 103,869 | 2,072 | 21,458 | 3,723 |
| 54_G | 3,455 | 825 | 3,246 | 2,957 | 29,207 | 1,140 | 5,987 | 1,039 |
| 54_D | 3,243 | 1,498 | 3,045 | 2,775 | 27,396 | 2,069 | 5,619 | 975 |
| 61_G | 3,386 | 1,588 | 6,878 | 1,753 | 91,741 | 2,708 | 6,795 | 1,406 |
| 61_D | 39,118 | 15,850 | 79,461 | 20,253 | 1,059,813 | 27,024 | 78,504 | 16,239 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 142,227 | 58,855 | 288,276 | 74,084 | 3,834,786 | 99,323 | 285,496 | 58,991 |

2017 24-Hour Weekday Adjusted SHP Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|-----------|---------|------------|-----------|------------|---------|-----------|---------|
| 11_G | 125,599 | 15,820 | 153,197 | 146,726 | 841,637 | 29,453 | 221,578 | 18,403 |
| 21_G | 4,138,408 | 463,710 | 10,145,358 | 3,981,600 | 52,587,465 | 824,952 | 7,315,353 | 508,390 |
| 21_D | 29,168 | 3,272 | 71,504 | 28,062 | 370,631 | 5,820 | 51,558 | 3,583 |
| 31_G | 1,332,835 | 224,317 | 1,517,266 | 1,175,495 | 11,916,797 | 436,048 | 1,980,011 | 234,935 |
| 31_D | 21,706 | 3,415 | 24,711 | 19,144 | 194,083 | 6,639 | 32,247 | 3,826 |
| 32_G | 327,082 | 54,992 | 372,343 | 288,471 | 2,924,430 | 106,899 | 485,902 | 57,654 |
| 32_D | 17,969 | 3,015 | 20,456 | 15,847 | 160,662 | 5,861 | 26,694 | 3,167 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 3,309 | 1,009 | 2,790 | 2,456 | 22,492 | 1,343 | 4,989 | 844 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 6,531 | 1,998 | 5,525 | 4,854 | 44,590 | 2,663 | 9,854 | 1,665 |
| 43_G | 201 | 63 | 171 | 150 | 1,380 | 85 | 304 | 51 |
| 43_D | 18,032 | 5,527 | 15,298 | 13,414 | 123,649 | 7,368 | 27,225 | 4,597 |
| 51_G | 6,548 | 1,218 | 5,506 | 4,878 | 44,505 | 1,642 | 9,874 | 1,661 |
| 51_D | 6,251 | 2,167 | 5,258 | 4,658 | 42,507 | 2,922 | 9,427 | 1,585 |
| 52_G | 126,235 | 26,078 | 106,790 | 94,150 | 865,109 | 35,100 | 190,616 | 32,043 |
| 52_D | 119,843 | 46,579 | 101,382 | 89,382 | 821,299 | 62,693 | 180,964 | 30,421 |
| 53_G | 18,675 | 916 | 15,798 | 13,928 | 127,977 | 1,232 | 28,199 | 4,740 |
| 53_D | 17,778 | 1,644 | 15,040 | 13,259 | 121,843 | 2,213 | 26,845 | 4,513 |
| 54_G | 5,243 | 969 | 4,468 | 3,913 | 36,281 | 1,301 | 7,930 | 1,333 |
| 54_D | 4,940 | 1,749 | 4,209 | 3,687 | 34,183 | 2,348 | 7,471 | 1,256 |
| 61_G | 4,842 | 1,661 | 8,935 | 2,192 | 107,055 | 2,888 | 8,504 | 1,684 |
| 61_D | 55,942 | 16,580 | 103,220 | 25,322 | 1,236,733 | 28,826 | 98,241 | 19,453 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 203,273 | 62,103 | 374,060 | 92,541 | 4,473,437 | 105,870 | 356,835 | 70,755 |

2018 24-Hour Weekday Adjusted SHP Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|-----------|---------|------------|-----------|------------|---------|-----------|---------|
| 11_G | 129,580 | 16,007 | 162,865 | 148,980 | 865,916 | 30,068 | 230,539 | 18,834 |
| 21_G | 4,273,628 | 471,906 | 10,777,665 | 4,051,259 | 54,247,842 | 842,679 | 7,606,026 | 523,959 |
| 21_D | 38,841 | 4,287 | 97,953 | 36,820 | 493,036 | 7,655 | 69,128 | 4,762 |
| 31_G | 1,376,747 | 227,905 | 1,614,061 | 1,195,070 | 12,295,608 | 444,911 | 2,060,526 | 241,509 |
| 31_D | 25,218 | 4,181 | 29,565 | 21,890 | 225,219 | 8,162 | 37,743 | 4,424 |
| 32_G | 338,180 | 55,981 | 396,474 | 293,554 | 3,020,266 | 109,284 | 506,142 | 59,324 |
| 32_D | 18,894 | 3,136 | 22,151 | 16,401 | 168,737 | 6,121 | 28,278 | 3,314 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 3,413 | 1,019 | 2,965 | 2,498 | 23,177 | 1,370 | 5,190 | 864 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 6,734 | 2,041 | 5,868 | 4,934 | 45,895 | 2,744 | 10,248 | 1,702 |
| 43_G | 208 | 64 | 181 | 152 | 1,421 | 86 | 316 | 53 |
| 43_D | 18,597 | 5,563 | 16,254 | 13,635 | 127,292 | 7,484 | 28,323 | 4,701 |
| 51_G | 6,567 | 1,216 | 5,688 | 4,818 | 44,631 | 1,651 | 9,985 | 1,652 |
| 51_D | 6,260 | 2,159 | 5,424 | 4,593 | 42,555 | 2,932 | 9,519 | 1,575 |
| 52_G | 130,939 | 26,540 | 114,116 | 96,153 | 896,896 | 35,997 | 199,381 | 32,967 |
| 52_D | 124,330 | 47,401 | 108,357 | 91,301 | 851,630 | 64,290 | 189,318 | 31,304 |
| 53_G | 19,414 | 929 | 16,920 | 14,256 | 132,983 | 1,260 | 29,562 | 4,888 |
| 53_D | 18,380 | 1,668 | 16,017 | 13,497 | 125,888 | 2,262 | 27,987 | 4,628 |
| 54_G | 5,107 | 918 | 4,485 | 3,753 | 35,308 | 1,243 | 7,789 | 1,288 |
| 54_D | 4,793 | 1,666 | 4,208 | 3,522 | 33,124 | 2,254 | 7,310 | 1,209 |
| 61_G | 4,974 | 1,649 | 9,452 | 2,225 | 109,860 | 2,937 | 8,812 | 1,712 |
| 61_D | 57,505 | 16,456 | 109,268 | 25,724 | 1,269,986 | 29,321 | 101,878 | 19,791 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 183,653 | 54,369 | 348,077 | 82,550 | 4,035,691 | 94,621 | 325,215 | 63,300 |

2020 24-Hour Weekday Adjusted SHP Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|-----------|---------|------------|-----------|------------|-----------|-----------|---------|
| 11_G | 135,836 | 17,555 | 186,541 | 150,182 | 896,262 | 38,023 | 244,335 | 20,307 |
| 21_G | 4,478,562 | 516,995 | 12,341,067 | 4,083,897 | 56,136,308 | 1,065,221 | 8,057,974 | 564,647 |
| 21_D | 40,704 | 4,696 | 112,162 | 37,117 | 510,200 | 9,676 | 73,235 | 5,132 |
| 31_G | 1,442,892 | 249,667 | 1,847,739 | 1,204,697 | 12,722,893 | 562,455 | 2,183,006 | 260,301 |
| 31_D | 26,430 | 4,580 | 33,845 | 22,067 | 233,046 | 10,318 | 39,986 | 4,768 |
| 32_G | 354,428 | 61,326 | 453,874 | 295,919 | 3,125,223 | 138,157 | 536,228 | 63,940 |
| 32_D | 19,802 | 3,435 | 25,358 | 16,533 | 174,601 | 7,739 | 29,959 | 3,572 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 3,577 | 1,117 | 3,394 | 2,518 | 23,983 | 1,732 | 5,499 | 931 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 7,058 | 2,236 | 6,719 | 4,974 | 47,492 | 3,470 | 10,859 | 1,835 |
| 43_G | 218 | 70 | 208 | 153 | 1,470 | 109 | 335 | 57 |
| 43_D | 19,493 | 6,098 | 18,611 | 13,745 | 131,725 | 9,463 | 30,013 | 5,068 |
| 51_G | 6,883 | 1,332 | 6,511 | 4,857 | 46,180 | 2,088 | 10,579 | 1,781 |
| 51_D | 6,561 | 2,365 | 6,208 | 4,630 | 44,032 | 3,707 | 10,086 | 1,698 |
| 52_G | 137,246 | 29,087 | 130,645 | 96,930 | 928,094 | 45,511 | 211,269 | 35,540 |
| 52_D | 130,320 | 51,949 | 124,051 | 92,037 | 881,254 | 81,283 | 200,606 | 33,746 |
| 53_G | 20,349 | 1,018 | 19,371 | 14,371 | 137,609 | 1,593 | 31,325 | 5,270 |
| 53_D | 19,265 | 1,828 | 18,337 | 13,606 | 130,267 | 2,860 | 29,655 | 4,989 |
| 54_G | 5,353 | 1,006 | 5,135 | 3,783 | 36,539 | 1,571 | 8,254 | 1,388 |
| 54_D | 5,024 | 1,826 | 4,818 | 3,550 | 34,279 | 2,851 | 7,746 | 1,303 |
| 61_G | 5,214 | 1,809 | 10,822 | 2,243 | 113,696 | 3,714 | 9,339 | 1,846 |
| 61_D | 60,281 | 18,062 | 125,110 | 25,933 | 1,314,325 | 37,074 | 107,969 | 21,345 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 192,517 | 59,663 | 398,576 | 83,219 | 4,176,719 | 119,645 | 344,665 | 68,266 |

2023 24-Hour Weekday Adjusted SHP Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|-----------|---------|------------|-----------|------------|-----------|-----------|---------|
| 11_G | 142,140 | 18,499 | 207,428 | 156,187 | 943,663 | 39,983 | 262,634 | 22,148 |
| 21_G | 4,670,968 | 543,852 | 13,698,424 | 4,238,846 | 58,982,205 | 1,118,802 | 8,644,035 | 613,933 |
| 21_D | 51,953 | 6,048 | 152,360 | 47,147 | 656,028 | 12,442 | 96,143 | 6,828 |
| 31_G | 1,506,075 | 262,899 | 2,052,823 | 1,251,624 | 13,380,224 | 591,166 | 2,344,035 | 283,437 |
| 31_D | 29,163 | 5,093 | 39,750 | 24,236 | 259,091 | 11,453 | 45,389 | 5,488 |
| 32_G | 370,328 | 64,642 | 504,769 | 307,762 | 3,290,068 | 145,356 | 576,375 | 69,694 |
| 32_D | 20,690 | 3,621 | 28,201 | 17,195 | 183,810 | 8,142 | 32,202 | 3,894 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 3,741 | 1,177 | 3,775 | 2,619 | 25,248 | 1,822 | 5,911 | 1,015 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 7,498 | 2,357 | 7,590 | 5,254 | 50,779 | 3,650 | 11,854 | 2,032 |
| 43_G | 228 | 74 | 231 | 160 | 1,548 | 115 | 360 | 62 |
| 43_D | 20,277 | 6,403 | 20,580 | 14,214 | 137,874 | 9,917 | 32,077 | 5,495 |
| 51_G | 7,192 | 1,404 | 7,239 | 5,052 | 48,613 | 2,195 | 11,372 | 1,941 |
| 51_D | 6,857 | 2,493 | 6,903 | 4,816 | 46,352 | 3,899 | 10,841 | 1,851 |
| 52_G | 143,800 | 30,730 | 145,604 | 101,048 | 979,360 | 47,977 | 227,631 | 38,842 |
| 52_D | 136,560 | 54,875 | 138,273 | 95,961 | 930,051 | 85,674 | 216,170 | 36,887 |
| 53_G | 21,269 | 1,073 | 21,535 | 14,946 | 144,847 | 1,675 | 33,668 | 5,745 |
| 53_D | 20,253 | 1,926 | 20,508 | 14,232 | 137,940 | 3,008 | 32,060 | 5,471 |
| 54_G | 5,255 | 1,012 | 5,361 | 3,694 | 36,120 | 1,576 | 8,330 | 1,421 |
| 54_D | 4,911 | 1,801 | 5,008 | 3,451 | 33,735 | 2,806 | 7,783 | 1,328 |
| 61_G | 5,458 | 1,895 | 12,007 | 2,326 | 119,548 | 3,891 | 10,019 | 2,006 |
| 61_D | 63,112 | 18,916 | 138,848 | 26,905 | 1,382,348 | 38,846 | 115,861 | 23,198 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 192,327 | 59,724 | 422,314 | 82,440 | 4,193,159 | 119,739 | 353,091 | 70,859 |

2026 24-Hour Weekday Adjusted SHP Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|-----------|---------|------------|-----------|------------|-----------|-----------|---------|
| 11_G | 151,532 | 18,739 | 225,298 | 161,463 | 983,653 | 41,246 | 277,721 | 23,369 |
| 21_G | 4,977,903 | 550,812 | 14,876,044 | 4,381,883 | 61,458,546 | 1,154,001 | 9,135,272 | 647,426 |
| 21_D | 55,367 | 6,125 | 165,458 | 48,738 | 683,571 | 12,833 | 101,607 | 7,201 |
| 31_G | 1,605,059 | 266,264 | 2,228,489 | 1,293,861 | 13,940,735 | 609,762 | 2,477,344 | 298,930 |
| 31_D | 31,080 | 5,158 | 43,152 | 25,054 | 269,945 | 11,813 | 47,971 | 5,788 |
| 32_G | 394,668 | 65,469 | 547,963 | 318,147 | 3,427,893 | 149,928 | 609,154 | 73,504 |
| 32_D | 22,050 | 3,667 | 30,614 | 17,775 | 191,510 | 8,398 | 34,033 | 4,106 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 3,987 | 1,192 | 4,099 | 2,707 | 26,307 | 1,879 | 6,248 | 1,071 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 7,992 | 2,387 | 8,241 | 5,431 | 52,912 | 3,765 | 12,532 | 2,144 |
| 43_G | 243 | 75 | 251 | 165 | 1,613 | 119 | 381 | 65 |
| 43_D | 21,614 | 6,485 | 22,347 | 14,695 | 143,673 | 10,229 | 33,912 | 5,798 |
| 51_G | 7,665 | 1,422 | 7,857 | 5,222 | 50,647 | 2,265 | 12,020 | 2,048 |
| 51_D | 7,308 | 2,525 | 7,492 | 4,978 | 48,291 | 4,021 | 11,460 | 1,952 |
| 52_G | 153,270 | 31,126 | 158,056 | 104,462 | 1,020,452 | 49,489 | 240,633 | 40,979 |
| 52_D | 145,553 | 55,583 | 150,098 | 99,202 | 969,074 | 88,373 | 228,518 | 38,915 |
| 53_G | 22,670 | 1,087 | 23,377 | 15,451 | 150,924 | 1,728 | 35,591 | 6,061 |
| 53_D | 21,587 | 1,951 | 22,262 | 14,712 | 143,728 | 3,103 | 33,891 | 5,772 |
| 54_G | 5,602 | 1,025 | 5,821 | 3,819 | 37,640 | 1,626 | 8,806 | 1,500 |
| 54_D | 5,235 | 1,825 | 5,437 | 3,568 | 35,155 | 2,894 | 8,228 | 1,401 |
| 61_G | 5,816 | 1,920 | 13,036 | 2,405 | 124,590 | 4,014 | 10,593 | 2,118 |
| 61_D | 67,253 | 19,171 | 150,749 | 27,814 | 1,440,649 | 40,075 | 122,501 | 24,492 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 204,968 | 60,522 | 458,554 | 85,224 | 4,370,217 | 123,526 | 373,338 | 74,801 |

2027 24-Hour Weekday Adjusted SHP Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|-----------|---------|------------|-----------|------------|-----------|-----------|---------|
| 11_G | 153,742 | 18,781 | 230,961 | 162,662 | 997,781 | 41,575 | 283,406 | 23,890 |
| 21_G | 5,050,178 | 552,028 | 15,249,255 | 4,414,183 | 62,331,485 | 1,163,150 | 9,320,861 | 661,740 |
| 21_D | 56,171 | 6,139 | 169,609 | 49,097 | 693,281 | 12,935 | 103,671 | 7,360 |
| 31_G | 1,628,338 | 266,851 | 2,284,069 | 1,303,420 | 14,138,260 | 614,598 | 2,527,647 | 305,544 |
| 31_D | 31,531 | 5,170 | 44,228 | 25,239 | 273,770 | 11,907 | 48,945 | 5,916 |
| 32_G | 400,392 | 65,613 | 561,630 | 320,498 | 3,476,462 | 151,117 | 621,523 | 75,130 |
| 32_D | 22,370 | 3,675 | 31,378 | 17,906 | 194,224 | 8,465 | 34,724 | 4,197 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 4,045 | 1,195 | 4,201 | 2,727 | 26,680 | 1,894 | 6,375 | 1,095 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 8,109 | 2,392 | 8,447 | 5,471 | 53,664 | 3,795 | 12,787 | 2,192 |
| 43_G | 246 | 75 | 257 | 166 | 1,636 | 120 | 389 | 67 |
| 43_D | 21,929 | 6,500 | 22,907 | 14,803 | 145,717 | 10,311 | 34,604 | 5,927 |
| 51_G | 7,776 | 1,425 | 8,052 | 5,261 | 51,364 | 2,283 | 12,265 | 2,093 |
| 51_D | 7,414 | 2,531 | 7,678 | 5,015 | 48,975 | 4,053 | 11,693 | 1,996 |
| 52_G | 155,495 | 31,195 | 161,990 | 105,235 | 1,034,942 | 49,882 | 245,533 | 41,890 |
| 52_D | 147,666 | 55,707 | 153,835 | 99,937 | 982,835 | 89,075 | 233,171 | 39,781 |
| 53_G | 22,999 | 1,089 | 23,959 | 15,565 | 153,067 | 1,741 | 36,316 | 6,196 |
| 53_D | 21,900 | 1,956 | 22,816 | 14,821 | 145,769 | 3,127 | 34,582 | 5,900 |
| 54_G | 5,683 | 1,027 | 5,966 | 3,847 | 38,176 | 1,638 | 8,986 | 1,533 |
| 54_D | 5,311 | 1,829 | 5,573 | 3,595 | 35,655 | 2,917 | 8,396 | 1,432 |
| 61_G | 5,899 | 1,925 | 13,361 | 2,423 | 126,370 | 4,046 | 10,809 | 2,165 |
| 61_D | 68,220 | 19,214 | 154,505 | 28,020 | 1,461,224 | 40,396 | 124,998 | 25,044 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 207,923 | 60,658 | 470,003 | 85,857 | 4,432,720 | 124,513 | 380,956 | 76,483 |

2011 24-Hour Weekday Starts Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|-----------|---------|-----------|---------|-----------|--------|
| 11_G | 638 | 106 | 859 | 853 | 5,241 | 201 | 1,289 | 111 |
| 21_G | 511,960 | 77,697 | 1,367,285 | 564,525 | 8,090,682 | 137,034 | 1,038,075 | 77,294 |
| 21_D | 2,069 | 315 | 5,577 | 2,247 | 32,928 | 557 | 4,201 | 306 |
| 31_G | 172,516 | 39,426 | 220,364 | 174,329 | 1,943,228 | 75,630 | 295,958 | 36,646 |
| 31_D | 2,352 | 537 | 3,003 | 2,377 | 26,527 | 1,032 | 4,022 | 500 |
| 32_G | 45,652 | 10,434 | 58,315 | 46,134 | 514,201 | 20,012 | 78,318 | 9,694 |
| 32_D | 2,485 | 566 | 3,173 | 2,510 | 28,032 | 1,091 | 4,258 | 530 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 2,165 | 869 | 2,068 | 1,855 | 18,752 | 1,184 | 3,765 | 653 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 986 | 401 | 943 | 845 | 8,545 | 547 | 1,716 | 298 |
| 43_G | 9 | 5 | 9 | 8 | 82 | 7 | 17 | 3 |
| 43_D | 1,762 | 710 | 1,683 | 1,510 | 15,261 | 968 | 3,064 | 532 |
| 51_G | 244 | 61 | 233 | 209 | 2,114 | 83 | 424 | 74 |
| 51_D | 350 | 163 | 334 | 300 | 3,029 | 222 | 608 | 105 |
| 52_G | 78,055 | 21,326 | 74,584 | 66,890 | 676,174 | 29,070 | 135,766 | 23,549 |
| 52_D | 81,087 | 41,671 | 77,482 | 69,489 | 702,446 | 56,804 | 141,041 | 24,464 |
| 53_G | 766 | 49 | 732 | 656 | 6,634 | 67 | 1,332 | 231 |
| 53_D | 804 | 98 | 769 | 689 | 6,968 | 134 | 1,399 | 243 |
| 54_G | 74 | 18 | 71 | 64 | 644 | 25 | 129 | 22 |
| 54_D | 77 | 36 | 74 | 66 | 668 | 49 | 134 | 23 |
| 61_G | 739 | 360 | 1,487 | 393 | 19,597 | 587 | 1,485 | 306 |
| 61_D | 11,282 | 4,747 | 22,697 | 5,998 | 299,195 | 7,740 | 22,665 | 4,666 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 3,430 | 1,461 | 6,900 | 1,823 | 90,958 | 2,382 | 6,890 | 1,418 |

2017 24-Hour Weekday Starts Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|-----------|---------|-----------|---------|-----------|--------|
| 11_G | 909 | 115 | 1,110 | 1,062 | 6,106 | 213 | 1,605 | 133 |
| 21_G | 727,658 | 84,019 | 1,761,465 | 700,470 | 9,394,221 | 145,175 | 1,287,740 | 92,744 |
| 21_D | 5,435 | 622 | 13,050 | 5,242 | 70,442 | 1,108 | 9,467 | 707 |
| 31_G | 246,327 | 42,867 | 285,149 | 217,326 | 2,266,704 | 80,589 | 368,683 | 44,189 |
| 31_D | 3,918 | 639 | 4,545 | 3,458 | 36,071 | 1,196 | 5,892 | 701 |
| 32_G | 64,443 | 11,203 | 74,591 | 56,852 | 592,966 | 21,063 | 96,466 | 11,560 |
| 32_D | 3,242 | 561 | 3,753 | 2,860 | 29,933 | 1,062 | 4,843 | 585 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 988 | 302 | 856 | 739 | 6,993 | 403 | 1,500 | 252 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 2,175 | 667 | 1,884 | 1,627 | 15,393 | 891 | 3,302 | 554 |
| 43_G | 31 | 10 | 27 | 23 | 221 | 13 | 47 | 8 |
| 43_D | 3,356 | 1,031 | 2,906 | 2,511 | 23,747 | 1,377 | 5,093 | 855 |
| 51_G | 254 | 48 | 220 | 190 | 1,799 | 64 | 386 | 65 |
| 51_D | 515 | 180 | 446 | 385 | 3,644 | 241 | 782 | 131 |
| 52_G | 122,387 | 25,458 | 105,989 | 91,571 | 866,113 | 34,004 | 185,766 | 31,180 |
| 52_D | 109,117 | 42,702 | 94,497 | 81,642 | 772,203 | 57,037 | 165,624 | 27,799 |
| 53_G | 1,218 | 60 | 1,055 | 912 | 8,623 | 80 | 1,849 | 310 |
| 53_D | 1,076 | 100 | 931 | 805 | 7,612 | 134 | 1,633 | 274 |
| 54_G | 113 | 21 | 98 | 85 | 800 | 28 | 172 | 29 |
| 54_D | 114 | 41 | 99 | 86 | 809 | 54 | 174 | 29 |
| 61_G | 1,262 | 468 | 2,302 | 586 | 27,348 | 747 | 2,213 | 441 |
| 61_D | 15,792 | 5,055 | 28,795 | 7,331 | 342,137 | 8,077 | 27,686 | 5,515 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 4,892 | 1,585 | 8,920 | 2,271 | 105,981 | 2,533 | 8,576 | 1,708 |

2018 24-Hour Weekday Starts Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|-----------|---------|-----------|---------|-----------|--------|
| 11_G | 938 | 116 | 1,180 | 1,078 | 6,281 | 218 | 1,669 | 136 |
| 21_G | 749,263 | 84,844 | 1,869,016 | 709,846 | 9,644,453 | 147,924 | 1,337,248 | 94,718 |
| 21_D | 7,099 | 795 | 17,559 | 6,737 | 91,787 | 1,427 | 12,498 | 918 |
| 31_G | 253,507 | 43,215 | 302,397 | 220,115 | 2,325,954 | 81,983 | 382,645 | 45,108 |
| 31_D | 4,598 | 788 | 5,499 | 3,995 | 42,166 | 1,485 | 6,985 | 815 |
| 32_G | 66,410 | 11,319 | 79,205 | 57,656 | 609,282 | 21,478 | 100,246 | 11,817 |
| 32_D | 3,390 | 579 | 4,047 | 2,945 | 31,195 | 1,102 | 5,120 | 606 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 1,020 | 305 | 910 | 751 | 7,198 | 411 | 1,562 | 258 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 2,245 | 682 | 2,004 | 1,653 | 15,843 | 919 | 3,437 | 567 |
| 43_G | 33 | 10 | 29 | 24 | 230 | 14 | 50 | 8 |
| 43_D | 3,462 | 1,038 | 3,089 | 2,549 | 24,424 | 1,399 | 5,299 | 875 |
| 51_G | 236 | 44 | 211 | 174 | 1,666 | 59 | 361 | 60 |
| 51_D | 514 | 179 | 459 | 379 | 3,628 | 241 | 787 | 130 |
| 52_G | 128,062 | 26,106 | 114,281 | 94,298 | 903,592 | 35,185 | 196,038 | 32,359 |
| 52_D | 112,127 | 42,994 | 100,061 | 82,565 | 791,156 | 57,946 | 171,644 | 28,333 |
| 53_G | 1,279 | 62 | 1,142 | 942 | 9,026 | 83 | 1,958 | 323 |
| 53_D | 1,100 | 100 | 982 | 810 | 7,765 | 135 | 1,685 | 278 |
| 54_G | 110 | 20 | 98 | 81 | 776 | 27 | 168 | 28 |
| 54_D | 110 | 38 | 98 | 81 | 778 | 52 | 169 | 28 |
| 61_G | 1,331 | 484 | 2,500 | 608 | 28,741 | 780 | 2,353 | 461 |
| 61_D | 16,258 | 5,103 | 30,547 | 7,427 | 351,180 | 8,228 | 28,745 | 5,631 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 4,432 | 1,408 | 8,327 | 2,025 | 95,733 | 2,270 | 7,836 | 1,535 |

2020 24-Hour Weekday Starts Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|-----------|---------|-----------|---------|-----------|---------|
| 11_G | 984 | 127 | 1,351 | 1,087 | 6,501 | 275 | 1,769 | 147 |
| 21_G | 785,657 | 93,070 | 2,141,336 | 715,769 | 9,985,252 | 187,113 | 1,417,557 | 102,157 |
| 21_D | 7,205 | 846 | 19,494 | 6,569 | 92,035 | 1,745 | 12,925 | 956 |
| 31_G | 265,417 | 47,330 | 345,925 | 221,612 | 2,404,542 | 103,553 | 405,006 | 48,583 |
| 31_D | 4,992 | 896 | 6,521 | 4,171 | 45,174 | 1,941 | 7,672 | 906 |
| 32_G | 69,556 | 12,400 | 90,634 | 58,069 | 630,125 | 27,144 | 106,135 | 12,735 |
| 32_D | 3,602 | 647 | 4,710 | 3,011 | 32,664 | 1,405 | 5,523 | 656 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 1,069 | 335 | 1,043 | 757 | 7,450 | 520 | 1,655 | 278 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 2,354 | 748 | 2,295 | 1,667 | 16,399 | 1,162 | 3,643 | 612 |
| 43_G | 36 | 12 | 35 | 25 | 249 | 18 | 55 | 9 |
| 43_D | 3,624 | 1,137 | 3,533 | 2,566 | 25,245 | 1,767 | 5,608 | 942 |
| 51_G | 201 | 39 | 196 | 142 | 1,400 | 61 | 311 | 52 |
| 51_D | 538 | 196 | 525 | 381 | 3,750 | 304 | 833 | 140 |
| 52_G | 135,532 | 28,905 | 132,151 | 95,969 | 944,228 | 44,921 | 209,761 | 35,225 |
| 52_D | 116,023 | 46,542 | 113,129 | 82,155 | 808,313 | 72,331 | 179,568 | 30,154 |
| 53_G | 1,356 | 68 | 1,322 | 960 | 9,446 | 106 | 2,098 | 352 |
| 53_D | 1,136 | 108 | 1,108 | 804 | 7,915 | 169 | 1,758 | 295 |
| 54_G | 116 | 22 | 113 | 82 | 806 | 34 | 179 | 30 |
| 54_D | 114 | 42 | 112 | 81 | 797 | 65 | 177 | 30 |
| 61_G | 1,450 | 551 | 2,976 | 637 | 30,916 | 1,025 | 2,591 | 516 |
| 61_D | 16,981 | 5,576 | 34,861 | 7,460 | 362,166 | 10,367 | 30,355 | 6,050 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 4,646 | 1,544 | 9,538 | 2,041 | 99,089 | 2,871 | 8,305 | 1,655 |

2023 24-Hour Weekday Starts Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|-----------|---------|------------|---------|-----------|---------|
| 11_G | 1,029 | 134 | 1,503 | 1,131 | 6,845 | 289 | 1,902 | 160 |
| 21_G | 820,584 | 97,880 | 2,376,485 | 742,963 | 10,493,589 | 196,390 | 1,520,708 | 111,217 |
| 21_D | 9,074 | 1,083 | 26,140 | 8,233 | 116,185 | 2,191 | 16,885 | 1,242 |
| 31_G | 276,927 | 49,732 | 383,541 | 229,799 | 2,524,360 | 108,574 | 434,102 | 52,837 |
| 31_D | 5,740 | 1,031 | 7,944 | 4,760 | 52,307 | 2,248 | 9,016 | 1,089 |
| 32_G | 72,639 | 13,040 | 100,570 | 60,267 | 662,157 | 28,492 | 113,856 | 13,868 |
| 32_D | 3,897 | 707 | 5,429 | 3,243 | 35,480 | 1,517 | 6,139 | 733 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 1,119 | 353 | 1,159 | 787 | 7,844 | 547 | 1,779 | 303 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 2,501 | 788 | 2,591 | 1,760 | 17,532 | 1,222 | 3,976 | 678 |
| 43_G | 37 | 12 | 39 | 26 | 263 | 19 | 60 | 10 |
| 43_D | 3,769 | 1,193 | 3,905 | 2,652 | 26,421 | 1,850 | 5,992 | 1,021 |
| 51_G | 166 | 33 | 172 | 117 | 1,165 | 51 | 264 | 45 |
| 51_D | 560 | 205 | 581 | 394 | 3,928 | 318 | 891 | 152 |
| 52_G | 142,314 | 30,564 | 147,450 | 100,149 | 997,583 | 47,399 | 226,245 | 38,551 |
| 52_D | 120,853 | 48,805 | 125,215 | 85,047 | 847,148 | 75,689 | 192,127 | 32,738 |
| 53_G | 1,418 | 72 | 1,470 | 998 | 9,943 | 112 | 2,255 | 384 |
| 53_D | 1,187 | 114 | 1,230 | 835 | 8,321 | 176 | 1,887 | 322 |
| 54_G | 114 | 22 | 118 | 80 | 800 | 34 | 181 | 31 |
| 54_D | 111 | 41 | 115 | 78 | 777 | 63 | 176 | 30 |
| 61_G | 1,548 | 593 | 3,378 | 676 | 33,226 | 1,100 | 2,843 | 575 |
| 61_D | 17,736 | 5,865 | 38,690 | 7,743 | 380,599 | 10,880 | 32,566 | 6,586 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 4,640 | 1,553 | 10,121 | 2,026 | 99,565 | 2,881 | 8,519 | 1,723 |

2026 24-Hour Weekday Starts Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|-----------|---------|------------|---------|-----------|---------|
| 11_G | 1,097 | 136 | 1,632 | 1,169 | 7,135 | 299 | 2,011 | 169 |
| 21_G | 874,658 | 99,136 | 2,580,744 | 767,926 | 10,936,754 | 202,567 | 1,607,753 | 117,336 |
| 21_D | 9,876 | 1,122 | 29,092 | 8,689 | 123,413 | 2,292 | 18,272 | 1,328 |
| 31_G | 294,813 | 50,319 | 416,056 | 237,241 | 2,627,571 | 111,823 | 458,464 | 55,658 |
| 31_D | 6,247 | 1,061 | 8,773 | 5,014 | 55,774 | 2,386 | 9,698 | 1,185 |
| 32_G | 77,259 | 13,181 | 108,990 | 62,159 | 688,582 | 29,321 | 120,129 | 14,598 |
| 32_D | 4,314 | 742 | 6,117 | 3,479 | 38,424 | 1,624 | 6,728 | 802 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 1,193 | 357 | 1,259 | 814 | 8,177 | 564 | 1,881 | 320 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 2,666 | 798 | 2,815 | 1,820 | 18,275 | 1,261 | 4,205 | 715 |
| 43_G | 42 | 13 | 44 | 28 | 285 | 20 | 66 | 11 |
| 43_D | 4,015 | 1,207 | 4,238 | 2,740 | 27,520 | 1,907 | 6,331 | 1,076 |
| 51_G | 107 | 20 | 113 | 73 | 733 | 32 | 169 | 29 |
| 51_D | 596 | 207 | 629 | 407 | 4,084 | 327 | 940 | 160 |
| 52_G | 149,803 | 30,571 | 158,132 | 102,225 | 1,026,748 | 48,279 | 236,225 | 40,164 |
| 52_D | 129,861 | 49,833 | 137,081 | 88,617 | 890,065 | 78,699 | 204,778 | 34,817 |
| 53_G | 1,491 | 72 | 1,574 | 1,018 | 10,220 | 113 | 2,351 | 400 |
| 53_D | 1,277 | 116 | 1,348 | 871 | 8,752 | 183 | 2,014 | 342 |
| 54_G | 122 | 22 | 129 | 83 | 838 | 35 | 193 | 33 |
| 54_D | 117 | 41 | 124 | 80 | 803 | 65 | 185 | 31 |
| 61_G | 1,645 | 599 | 3,656 | 696 | 34,519 | 1,131 | 2,996 | 605 |
| 61_D | 18,913 | 5,943 | 42,036 | 8,007 | 396,857 | 11,227 | 34,448 | 6,951 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 4,946 | 1,573 | 10,993 | 2,094 | 103,786 | 2,972 | 9,009 | 1,818 |

2027 24-Hour Weekday Starts Summaries by County FIPS.

| SUT/FT | 48039 | 48071 | 48157 | 48167 | 48201 | 48291 | 48339 | 48473 |
|--------|---------|--------|-----------|---------|------------|---------|-----------|---------|
| 11_G | 1,113 | 136 | 1,673 | 1,177 | 7,237 | 301 | 2,052 | 173 |
| 21_G | 887,286 | 99,343 | 2,645,237 | 773,513 | 11,092,383 | 204,160 | 1,640,418 | 119,938 |
| 21_D | 10,153 | 1,139 | 30,218 | 8,865 | 126,801 | 2,336 | 18,883 | 1,373 |
| 31_G | 299,038 | 50,422 | 426,437 | 238,950 | 2,664,632 | 112,677 | 467,761 | 56,875 |
| 31_D | 6,350 | 1,064 | 8,998 | 5,058 | 56,691 | 2,416 | 9,905 | 1,219 |
| 32_G | 78,334 | 13,202 | 111,667 | 62,582 | 698,011 | 29,534 | 122,516 | 14,911 |
| 32_D | 4,423 | 751 | 6,327 | 3,540 | 39,403 | 1,657 | 6,931 | 831 |
| 41_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41_D | 1,210 | 358 | 1,291 | 820 | 8,294 | 569 | 1,920 | 327 |
| 42_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42_D | 2,705 | 800 | 2,885 | 1,833 | 18,538 | 1,271 | 4,291 | 731 |
| 43_G | 43 | 13 | 45 | 29 | 291 | 21 | 67 | 11 |
| 43_D | 4,073 | 1,210 | 4,344 | 2,760 | 27,911 | 1,922 | 6,460 | 1,100 |
| 51_G | 84 | 15 | 89 | 57 | 573 | 24 | 133 | 23 |
| 51_D | 604 | 207 | 644 | 409 | 4,140 | 329 | 958 | 163 |
| 52_G | 151,033 | 30,447 | 161,089 | 102,337 | 1,034,960 | 48,359 | 239,546 | 40,801 |
| 52_D | 132,426 | 50,199 | 141,244 | 89,729 | 907,458 | 79,731 | 210,035 | 35,775 |
| 53_G | 1,502 | 71 | 1,602 | 1,018 | 10,291 | 114 | 2,382 | 406 |
| 53_D | 1,303 | 117 | 1,390 | 883 | 8,931 | 186 | 2,067 | 352 |
| 54_G | 124 | 23 | 133 | 84 | 853 | 36 | 197 | 34 |
| 54_D | 118 | 41 | 126 | 80 | 810 | 65 | 188 | 32 |
| 61_G | 1,667 | 599 | 3,744 | 701 | 34,974 | 1,139 | 3,054 | 617 |
| 61_D | 19,191 | 5,957 | 43,098 | 8,068 | 402,606 | 11,318 | 35,157 | 7,107 |
| 62_G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62_D | 5,018 | 1,577 | 11,270 | 2,110 | 105,278 | 2,996 | 9,193 | 1,858 |

2011 Weekday Hotelling Hours Summaries by Operating Mode.

| County FIPS | Hotelling Hours | SHEI | APU Hours | Other Mode Hours |
|-------------|-----------------|--------|-----------|------------------|
| 48039 | 935 | 736 | 13 | 187 |
| 48071 | 2,710 | 2,131 | 37 | 542 |
| 48157 | 5,087 | 4,000 | 69 | 1,017 |
| 48167 | 432 | 340 | 6 | 86 |
| 48201 | 44,814 | 35,242 | 610 | 8,963 |
| 48291 | 1,344 | 1,057 | 18 | 269 |
| 48339 | 5,931 | 4,664 | 81 | 1,186 |
| 48473 | 3,252 | 2,558 | 44 | 650 |

2017 Weekday Hotelling Hours Summaries by Operating Mode.

| County FIPS | Hotelling Hours | SHEI | APU Hours | Other Mode Hours |
|-------------|-----------------|--------|-----------|------------------|
| 48039 | 1,299 | 977 | 62 | 260 |
| 48071 | 4,032 | 3,032 | 193 | 806 |
| 48157 | 4,665 | 3,508 | 224 | 933 |
| 48167 | 479 | 360 | 23 | 96 |
| 48201 | 47,668 | 35,847 | 2,288 | 9,534 |
| 48291 | 1,464 | 1,101 | 70 | 293 |
| 48339 | 6,844 | 5,147 | 328 | 1,369 |
| 48473 | 4,360 | 3,279 | 209 | 872 |

2018 Weekday Hotelling Hours Summaries by Operating Mode.

| County FIPS | Hotelling Hours | SHEI | APU Hours | Other Mode Hours |
|-------------|-----------------|--------|-----------|------------------|
| 48039 | 1,352 | 1,013 | 68 | 270 |
| 48071 | 4,266 | 3,197 | 215 | 853 |
| 48157 | 4,898 | 3,671 | 247 | 980 |
| 48167 | 478 | 358 | 24 | 96 |
| 48201 | 48,201 | 36,131 | 2,429 | 9,640 |
| 48291 | 1,533 | 1,149 | 77 | 307 |
| 48339 | 7,011 | 5,255 | 353 | 1,402 |
| 48473 | 4,605 | 3,452 | 232 | 921 |

2020 Weekday Hotelling Hours Summaries by Operating Mode.

| County FIPS | Hotelling Hours | SHEI | APU Hours | Other Mode Hours |
|-------------|-----------------|--------|-----------|------------------|
| 48039 | 1,449 | 1,081 | 78 | 290 |
| 48071 | 4,762 | 3,554 | 256 | 952 |
| 48157 | 5,967 | 4,453 | 320 | 1,193 |
| 48167 | 492 | 367 | 26 | 98 |
| 48201 | 51,953 | 38,773 | 2,789 | 10,391 |
| 48291 | 1,972 | 1,472 | 106 | 394 |
| 48339 | 7,462 | 5,569 | 401 | 1,492 |
| 48473 | 4,991 | 3,725 | 268 | 998 |

2023 Weekday Hotelling Hours Summaries by Operating Mode.

| County FIPS | Hotelling Hours | SHEI | APU Hours | Other Mode Hours |
|-------------|-----------------|--------|-----------|------------------|
| 48039 | 1,346 | 903 | 145 | 298 |
| 48071 | 4,993 | 3,351 | 537 | 1,105 |
| 48157 | 6,672 | 4,478 | 717 | 1,477 |
| 48167 | 505 | 339 | 54 | 112 |
| 48201 | 54,253 | 36,410 | 5,834 | 12,009 |
| 48291 | 2,175 | 1,460 | 234 | 482 |
| 48339 | 7,922 | 5,317 | 852 | 1,754 |
| 48473 | 5,404 | 3,627 | 581 | 1,196 |

2026 Weekday Hotelling Hours Summaries by Operating Mode.

| County FIPS | Hotelling Hours | SHEI | APU Hours | Other Mode Hours |
|-------------|-----------------|--------|-----------|------------------|
| 48039 | 1,433 | 828 | 256 | 349 |
| 48071 | 5,037 | 2,911 | 901 | 1,225 |
| 48157 | 7,252 | 4,192 | 1,297 | 1,764 |
| 48167 | 522 | 302 | 93 | 127 |
| 48201 | 56,608 | 32,718 | 10,124 | 13,766 |
| 48291 | 2,234 | 1,291 | 400 | 543 |
| 48339 | 8,302 | 4,799 | 1,485 | 2,019 |
| 48473 | 5,615 | 3,245 | 1,004 | 1,365 |

2027 Weekday Hotelling Hours Summaries by Operating Mode.

| County FIPS | Hotelling Hours | SHEI | APU Hours | Other Mode Hours |
|--------------------|------------------------|-------------|------------------|-------------------------|
| 48039 | 1,458 | 798 | 291 | 369 |
| 48071 | 5,047 | 2,763 | 1,006 | 1,278 |
| 48157 | 7,450 | 4,078 | 1,485 | 1,887 |
| 48167 | 525 | 287 | 105 | 133 |
| 48201 | 57,444 | 31,445 | 11,450 | 14,549 |
| 48291 | 2,248 | 1,231 | 448 | 569 |
| 48339 | 8,459 | 4,630 | 1,686 | 2,142 |
| 48473 | 5,705 | 3,123 | 1,137 | 1,445 |

APPENDIX G: AGE DISTRIBUTIONS AND FUEL ENGINE FRACTIONS INPUTS TO MOVES

Brazoria County 2011 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.061795 | 0.061189 | 0.051236 | 0.051236 | 0.036180 | 0.074697 | 0.043899 | 0.020412 | 0.107326 | 0.108951 | 0.017572 | 0.054796 | 0.068825 |
| 1 | 0.060500 | 0.084498 | 0.069065 | 0.069065 | 0.039841 | 0.101513 | 0.042214 | 0.015110 | 0.098838 | 0.103650 | 0.002979 | 0.056698 | 0.059543 |
| 2 | 0.060130 | 0.085123 | 0.057148 | 0.057148 | 0.046623 | 0.104812 | 0.055843 | 0.028331 | 0.113632 | 0.111268 | 0.005313 | 0.044354 | 0.047903 |
| 3 | 0.053284 | 0.080094 | 0.054475 | 0.054475 | 0.049281 | 0.102921 | 0.059585 | 0.025227 | 0.089706 | 0.085755 | 0.020619 | 0.053668 | 0.060675 |
| 4 | 0.055134 | 0.089629 | 0.059136 | 0.059136 | 0.052966 | 0.076456 | 0.054774 | 0.076490 | 0.101333 | 0.102451 | 0.035762 | 0.064806 | 0.071965 |
| 5 | 0.056429 | 0.074963 | 0.058544 | 0.058544 | 0.068397 | 0.072053 | 0.055227 | 0.064970 | 0.056427 | 0.056032 | 0.048854 | 0.056252 | 0.057263 |
| 6 | 0.046994 | 0.069592 | 0.049366 | 0.049366 | 0.042648 | 0.057371 | 0.050452 | 0.056933 | 0.053431 | 0.050813 | 0.038874 | 0.057525 | 0.058116 |
| 7 | 0.045328 | 0.057499 | 0.039964 | 0.039964 | 0.042736 | 0.064267 | 0.058689 | 0.049088 | 0.069221 | 0.071436 | 0.060535 | 0.063625 | 0.060032 |
| 8 | 0.032562 | 0.047228 | 0.041399 | 0.041399 | 0.057372 | 0.070033 | 0.045203 | 0.055546 | 0.048059 | 0.048826 | 0.046135 | 0.032744 | 0.030871 |
| 9 | 0.028307 | 0.039774 | 0.034974 | 0.034974 | 0.054751 | 0.068493 | 0.055453 | 0.052116 | 0.017683 | 0.017043 | 0.044240 | 0.021855 | 0.019997 |
| 10 | 0.058464 | 0.031670 | 0.028719 | 0.028719 | 0.065557 | 0.068653 | 0.065744 | 0.057687 | 0.017940 | 0.016190 | 0.029414 | 0.028546 | 0.027428 |
| 11 | 0.053839 | 0.046170 | 0.046351 | 0.046351 | 0.078557 | 0.049889 | 0.060342 | 0.072218 | 0.044072 | 0.041381 | 0.055786 | 0.026198 | 0.024805 |
| 12 | 0.064755 | 0.043650 | 0.049287 | 0.049287 | 0.047578 | 0.034391 | 0.034339 | 0.060105 | 0.028590 | 0.027061 | 0.086656 | 0.087920 | 0.078722 |
| 13 | 0.061795 | 0.033678 | 0.045745 | 0.045745 | 0.039627 | 0.019471 | 0.033557 | 0.038712 | 0.030257 | 0.030204 | 0.039532 | 0.056383 | 0.050902 |
| 14 | 0.045143 | 0.030181 | 0.037120 | 0.037120 | 0.036599 | 0.009178 | 0.030650 | 0.026002 | 0.023951 | 0.025697 | 0.066825 | 0.048250 | 0.043087 |
| 15 | 0.037743 | 0.024954 | 0.039582 | 0.039582 | 0.029292 | 0.013218 | 0.027866 | 0.034289 | 0.018410 | 0.019228 | 0.035417 | 0.028953 | 0.024421 |
| 16 | 0.034598 | 0.020635 | 0.037778 | 0.037778 | 0.030064 | 0.002472 | 0.031547 | 0.039908 | 0.014718 | 0.015792 | 0.039586 | 0.022498 | 0.021618 |
| 17 | 0.036078 | 0.018056 | 0.039056 | 0.039056 | 0.023718 | 0.004862 | 0.016693 | 0.025686 | 0.013232 | 0.013489 | 0.041853 | 0.018760 | 0.016864 |
| 18 | 0.022202 | 0.014281 | 0.033604 | 0.033604 | 0.021178 | 0.000730 | 0.020301 | 0.020470 | 0.013138 | 0.013534 | 0.025183 | 0.025502 | 0.023545 |
| 19 | 0.014801 | 0.012135 | 0.026783 | 0.026783 | 0.013178 | 0.001112 | 0.018896 | 0.016540 | 0.010719 | 0.009828 | 0.024551 | 0.035354 | 0.032228 |
| 20 | 0.013136 | 0.008846 | 0.021819 | 0.021819 | 0.011799 | 0.000936 | 0.024538 | 0.021137 | 0.009528 | 0.009369 | 0.016394 | 0.027142 | 0.024374 |
| 21 | 0.008881 | 0.005942 | 0.013497 | 0.013497 | 0.017000 | 0.001181 | 0.026242 | 0.024395 | 0.003893 | 0.004506 | 0.025289 | 0.020163 | 0.018389 |
| 22 | 0.007586 | 0.004517 | 0.014353 | 0.014353 | 0.021289 | 0.000616 | 0.013673 | 0.017998 | 0.004563 | 0.004678 | 0.031470 | 0.013407 | 0.012671 |
| 23 | 0.007586 | 0.002589 | 0.010205 | 0.010205 | 0.013982 | 0.000249 | 0.014528 | 0.019271 | 0.002344 | 0.002323 | 0.028159 | 0.012108 | 0.012375 |
| 24 | 0.004255 | 0.002296 | 0.008783 | 0.008783 | 0.009457 | 0.000070 | 0.013551 | 0.017751 | 0.002225 | 0.002388 | 0.025783 | 0.012069 | 0.011774 |
| 25 | 0.004440 | 0.001692 | 0.007282 | 0.007282 | 0.007992 | 0.000024 | 0.010508 | 0.012854 | 0.001247 | 0.001414 | 0.015597 | 0.007491 | 0.008079 |
| 26 | 0.002960 | 0.001180 | 0.004596 | 0.004596 | 0.008237 | 0.000050 | 0.007903 | 0.012188 | 0.001003 | 0.001073 | 0.016256 | 0.005785 | 0.006273 |
| 27 | 0.001850 | 0.000913 | 0.003792 | 0.003792 | 0.006363 | 0.000037 | 0.006810 | 0.010137 | 0.000740 | 0.000713 | 0.015723 | 0.003739 | 0.003870 |
| 28 | 0.002220 | 0.000913 | 0.002713 | 0.002713 | 0.005349 | 0.000027 | 0.005974 | 0.008018 | 0.000677 | 0.000730 | 0.014339 | 0.002912 | 0.003640 |
| 29 | 0.001480 | 0.000657 | 0.002436 | 0.002436 | 0.004757 | 0.000020 | 0.004936 | 0.006995 | 0.000533 | 0.000653 | 0.014229 | 0.002335 | 0.003493 |
| 30 | 0.015726 | 0.005456 | 0.011193 | 0.011193 | 0.017635 | 0.000198 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Brazoria County 2017 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.061795 | 0.061189 | 0.051236 | 0.051236 | 0.078824 | 0.091142 | 0.083978 | 0.031614 | 0.107326 | 0.108951 | 0.016664 | 0.054796 | 0.068825 |
| 1 | 0.060500 | 0.084498 | 0.069065 | 0.069065 | 0.075667 | 0.090093 | 0.076580 | 0.032820 | 0.098838 | 0.103650 | 0.017093 | 0.056698 | 0.059543 |
| 2 | 0.060130 | 0.085123 | 0.057148 | 0.057148 | 0.067199 | 0.077034 | 0.075099 | 0.039904 | 0.113632 | 0.111268 | 0.017428 | 0.044354 | 0.047903 |
| 3 | 0.053284 | 0.080094 | 0.054475 | 0.054475 | 0.063959 | 0.079629 | 0.072132 | 0.035734 | 0.089706 | 0.085755 | 0.016351 | 0.053668 | 0.060675 |
| 4 | 0.055134 | 0.089629 | 0.059136 | 0.059136 | 0.041394 | 0.062045 | 0.040955 | 0.031878 | 0.101333 | 0.102451 | 0.020170 | 0.064806 | 0.071965 |
| 5 | 0.056429 | 0.074963 | 0.058544 | 0.058544 | 0.036596 | 0.068674 | 0.042028 | 0.032138 | 0.056427 | 0.056032 | 0.010539 | 0.056252 | 0.057263 |
| 6 | 0.046994 | 0.069592 | 0.049366 | 0.049366 | 0.032532 | 0.055132 | 0.043047 | 0.023869 | 0.053431 | 0.050813 | 0.019997 | 0.057525 | 0.058116 |
| 7 | 0.045328 | 0.057499 | 0.039964 | 0.039964 | 0.035230 | 0.072004 | 0.039560 | 0.017559 | 0.069221 | 0.071436 | 0.003389 | 0.063625 | 0.060032 |
| 8 | 0.032562 | 0.047228 | 0.041399 | 0.041399 | 0.039392 | 0.069145 | 0.049382 | 0.031958 | 0.048059 | 0.048826 | 0.005994 | 0.032744 | 0.030871 |
| 9 | 0.028307 | 0.039774 | 0.034974 | 0.034974 | 0.039680 | 0.062851 | 0.049899 | 0.027028 | 0.017683 | 0.017043 | 0.022758 | 0.021855 | 0.019997 |
| 10 | 0.058464 | 0.031670 | 0.028719 | 0.028719 | 0.041020 | 0.044016 | 0.043545 | 0.078002 | 0.017940 | 0.016190 | 0.038819 | 0.028546 | 0.027428 |
| 11 | 0.053839 | 0.046170 | 0.046351 | 0.046351 | 0.050566 | 0.038149 | 0.041402 | 0.063658 | 0.044072 | 0.041381 | 0.052497 | 0.026198 | 0.024805 |
| 12 | 0.064755 | 0.043650 | 0.049287 | 0.049287 | 0.030779 | 0.028742 | 0.036224 | 0.054189 | 0.028590 | 0.027061 | 0.041177 | 0.087920 | 0.078722 |
| 13 | 0.061795 | 0.033678 | 0.045745 | 0.045745 | 0.029860 | 0.029906 | 0.039417 | 0.045716 | 0.030257 | 0.030204 | 0.063961 | 0.056383 | 0.050902 |
| 14 | 0.045143 | 0.030181 | 0.037120 | 0.037120 | 0.038819 | 0.030838 | 0.029111 | 0.050432 | 0.023951 | 0.025697 | 0.048354 | 0.048250 | 0.043087 |
| 15 | 0.037743 | 0.024954 | 0.039582 | 0.039582 | 0.035967 | 0.028980 | 0.034482 | 0.045640 | 0.018410 | 0.019228 | 0.045680 | 0.028953 | 0.024421 |
| 16 | 0.034598 | 0.020635 | 0.037778 | 0.037778 | 0.041037 | 0.026572 | 0.038448 | 0.048454 | 0.014718 | 0.015792 | 0.030061 | 0.022498 | 0.021618 |
| 17 | 0.036078 | 0.018056 | 0.039056 | 0.039056 | 0.047968 | 0.018212 | 0.033726 | 0.058821 | 0.013232 | 0.013489 | 0.056177 | 0.018760 | 0.016864 |
| 18 | 0.022202 | 0.014281 | 0.033604 | 0.033604 | 0.028106 | 0.011607 | 0.017894 | 0.047873 | 0.013138 | 0.013534 | 0.087043 | 0.025502 | 0.023545 |
| 19 | 0.014801 | 0.012135 | 0.026783 | 0.026783 | 0.022635 | 0.006198 | 0.016732 | 0.030019 | 0.010719 | 0.009828 | 0.039384 | 0.035354 | 0.032228 |
| 20 | 0.013136 | 0.008846 | 0.021819 | 0.021819 | 0.020051 | 0.002680 | 0.014288 | 0.019410 | 0.009528 | 0.009369 | 0.065558 | 0.027142 | 0.024374 |
| 21 | 0.008881 | 0.005942 | 0.013497 | 0.013497 | 0.015338 | 0.003551 | 0.012169 | 0.024501 | 0.003893 | 0.004506 | 0.034386 | 0.020163 | 0.018389 |
| 22 | 0.007586 | 0.004517 | 0.014353 | 0.014353 | 0.015262 | 0.000636 | 0.013276 | 0.027421 | 0.004563 | 0.004678 | 0.037837 | 0.013407 | 0.012671 |
| 23 | 0.007586 | 0.002589 | 0.010205 | 0.010205 | 0.011438 | 0.001134 | 0.006577 | 0.016877 | 0.002344 | 0.002323 | 0.039588 | 0.012108 | 0.012375 |
| 24 | 0.004255 | 0.002296 | 0.008783 | 0.008783 | 0.009950 | 0.000160 | 0.007616 | 0.013002 | 0.002225 | 0.002388 | 0.023454 | 0.012069 | 0.011774 |
| 25 | 0.004440 | 0.001692 | 0.007282 | 0.007282 | 0.006052 | 0.000234 | 0.006794 | 0.010264 | 0.001247 | 0.001414 | 0.022808 | 0.007491 | 0.008079 |
| 26 | 0.002960 | 0.001180 | 0.004596 | 0.004596 | 0.005200 | 0.000182 | 0.008420 | 0.012742 | 0.001003 | 0.001073 | 0.015103 | 0.005785 | 0.006273 |
| 27 | 0.001850 | 0.000913 | 0.003792 | 0.003792 | 0.007295 | 0.000215 | 0.008562 | 0.014199 | 0.000740 | 0.000713 | 0.022934 | 0.003739 | 0.003870 |
| 28 | 0.002220 | 0.000913 | 0.002713 | 0.002713 | 0.008928 | 0.000108 | 0.004271 | 0.010231 | 0.000677 | 0.000730 | 0.028466 | 0.002912 | 0.003640 |
| 29 | 0.001480 | 0.000657 | 0.002436 | 0.002436 | 0.005620 | 0.000040 | 0.004325 | 0.010633 | 0.000533 | 0.000653 | 0.025257 | 0.002335 | 0.003493 |
| 30 | 0.015726 | 0.005456 | 0.011193 | 0.011193 | 0.017635 | 0.000091 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Brazoria County 2018 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.185384 | 0.183566 | 0.153707 | 0.153707 | 0.170292 | 0.170292 | 0.170292 | 0.178322 | 0.321977 | 0.326853 | 0.178322 | 0.164388 | 0.206475 |
| 1 | 0.181499 | 0.253494 | 0.207195 | 0.207195 | 0.234982 | 0.271088 | 0.250293 | 0.094206 | 0.296515 | 0.310950 | 0.050348 | 0.170095 | 0.178630 |
| 2 | 0.180389 | 0.255368 | 0.171444 | 0.171444 | 0.225573 | 0.267969 | 0.228243 | 0.097801 | 0.340895 | 0.333805 | 0.051643 | 0.133061 | 0.143708 |
| 3 | 0.159852 | 0.240281 | 0.163425 | 0.163425 | 0.200328 | 0.229125 | 0.223827 | 0.118909 | 0.269117 | 0.257264 | 0.052654 | 0.161004 | 0.182026 |
| 4 | 0.165402 | 0.268886 | 0.177409 | 0.177409 | 0.190669 | 0.236844 | 0.214986 | 0.106485 | 0.304000 | 0.307354 | 0.049401 | 0.194417 | 0.215896 |
| 5 | 0.169288 | 0.224889 | 0.175632 | 0.175632 | 0.121785 | 0.180751 | 0.120280 | 0.094113 | 0.169282 | 0.168097 | 0.060505 | 0.168757 | 0.171790 |
| 6 | 0.140981 | 0.208776 | 0.148098 | 0.148098 | 0.106239 | 0.195862 | 0.121598 | 0.093995 | 0.160293 | 0.152439 | 0.031390 | 0.172574 | 0.174347 |
| 7 | 0.135985 | 0.172498 | 0.119893 | 0.119893 | 0.094441 | 0.157239 | 0.124548 | 0.069810 | 0.207662 | 0.214307 | 0.059557 | 0.190875 | 0.180096 |
| 8 | 0.097687 | 0.141683 | 0.124198 | 0.124198 | 0.100901 | 0.200958 | 0.112733 | 0.050869 | 0.144177 | 0.146477 | 0.010020 | 0.098232 | 0.092613 |
| 9 | 0.084921 | 0.119323 | 0.104921 | 0.104921 | 0.112819 | 0.192979 | 0.140725 | 0.092586 | 0.053049 | 0.051128 | 0.017725 | 0.065566 | 0.059990 |
| 10 | 0.175393 | 0.095010 | 0.086157 | 0.086157 | 0.113644 | 0.175412 | 0.142197 | 0.078302 | 0.053820 | 0.048569 | 0.067292 | 0.085638 | 0.082283 |
| 11 | 0.161517 | 0.138511 | 0.139052 | 0.139052 | 0.115881 | 0.120155 | 0.122192 | 0.223826 | 0.132217 | 0.124143 | 0.113949 | 0.078593 | 0.074415 |
| 12 | 0.194265 | 0.130951 | 0.147861 | 0.147861 | 0.142848 | 0.104137 | 0.116180 | 0.182668 | 0.085769 | 0.081182 | 0.154099 | 0.263761 | 0.236165 |
| 13 | 0.185384 | 0.101033 | 0.137235 | 0.137235 | 0.085750 | 0.076701 | 0.100072 | 0.154000 | 0.090771 | 0.090613 | 0.119988 | 0.169150 | 0.152705 |
| 14 | 0.135430 | 0.090542 | 0.111360 | 0.111360 | 0.083188 | 0.079807 | 0.108891 | 0.129920 | 0.071853 | 0.077091 | 0.186378 | 0.144750 | 0.129260 |
| 15 | 0.113228 | 0.074861 | 0.118747 | 0.118747 | 0.108148 | 0.082296 | 0.080419 | 0.143322 | 0.055230 | 0.057683 | 0.140900 | 0.086858 | 0.073262 |
| 16 | 0.103793 | 0.061904 | 0.113335 | 0.113335 | 0.098800 | 0.075565 | 0.093755 | 0.128444 | 0.044154 | 0.047376 | 0.132126 | 0.067495 | 0.064854 |
| 17 | 0.108233 | 0.054168 | 0.117167 | 0.117167 | 0.112725 | 0.069285 | 0.104540 | 0.136364 | 0.039697 | 0.040467 | 0.086949 | 0.056279 | 0.050593 |
| 18 | 0.066605 | 0.042844 | 0.100812 | 0.100812 | 0.129893 | 0.046374 | 0.090229 | 0.163918 | 0.039415 | 0.040602 | 0.161282 | 0.076507 | 0.070634 |
| 19 | 0.044403 | 0.036406 | 0.080350 | 0.080350 | 0.076108 | 0.029555 | 0.047875 | 0.133409 | 0.032156 | 0.029485 | 0.249900 | 0.106063 | 0.096684 |
| 20 | 0.039408 | 0.026539 | 0.065457 | 0.065457 | 0.060410 | 0.015403 | 0.044035 | 0.082826 | 0.028583 | 0.028107 | 0.112225 | 0.081427 | 0.073121 |
| 21 | 0.026642 | 0.017826 | 0.040491 | 0.040491 | 0.053515 | 0.006659 | 0.037604 | 0.053554 | 0.011678 | 0.013518 | 0.186807 | 0.060490 | 0.055166 |
| 22 | 0.022757 | 0.013550 | 0.043059 | 0.043059 | 0.040935 | 0.008824 | 0.032027 | 0.067600 | 0.013690 | 0.014035 | 0.097982 | 0.040221 | 0.038012 |
| 23 | 0.022757 | 0.007768 | 0.030615 | 0.030615 | 0.040137 | 0.001542 | 0.034361 | 0.074902 | 0.007033 | 0.006970 | 0.107004 | 0.036325 | 0.037125 |
| 24 | 0.012766 | 0.006887 | 0.026349 | 0.026349 | 0.030080 | 0.002748 | 0.017023 | 0.046101 | 0.006676 | 0.007163 | 0.111956 | 0.036207 | 0.035321 |
| 25 | 0.013321 | 0.005077 | 0.021845 | 0.021845 | 0.026168 | 0.000387 | 0.019712 | 0.035515 | 0.003742 | 0.004242 | 0.066329 | 0.022472 | 0.024238 |
| 26 | 0.008881 | 0.003540 | 0.013787 | 0.013787 | 0.015680 | 0.000553 | 0.017287 | 0.027753 | 0.003009 | 0.003219 | 0.064012 | 0.017356 | 0.018818 |
| 27 | 0.005550 | 0.002739 | 0.011377 | 0.011377 | 0.013471 | 0.000431 | 0.021425 | 0.034453 | 0.002219 | 0.002140 | 0.042387 | 0.011216 | 0.011609 |
| 28 | 0.006660 | 0.002739 | 0.008138 | 0.008138 | 0.018901 | 0.000508 | 0.021786 | 0.038394 | 0.002031 | 0.002189 | 0.064364 | 0.008737 | 0.010919 |
| 29 | 0.004440 | 0.001970 | 0.007308 | 0.007308 | 0.022783 | 0.000249 | 0.010682 | 0.027382 | 0.001598 | 0.001959 | 0.079281 | 0.007005 | 0.010479 |
| 30 | 0.047179 | 0.016369 | 0.033578 | 0.033578 | 0.052904 | 0.000302 | 0.030184 | 0.040249 | 0.007691 | 0.010574 | 0.093226 | 0.024479 | 0.048766 |

Brazoria County 2020 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.061795 | 0.061189 | 0.051236 | 0.051236 | 0.056623 | 0.056623 | 0.056623 | 0.059505 | 0.107326 | 0.108951 | 0.059505 | 0.054796 | 0.068825 |
| 1 | 0.060500 | 0.084498 | 0.069065 | 0.069065 | 0.058906 | 0.058781 | 0.059000 | 0.060992 | 0.098838 | 0.103650 | 0.061446 | 0.056698 | 0.059543 |
| 2 | 0.060130 | 0.085123 | 0.057148 | 0.057148 | 0.055787 | 0.055441 | 0.055725 | 0.058218 | 0.113632 | 0.111268 | 0.059616 | 0.044354 | 0.047903 |
| 3 | 0.053284 | 0.080094 | 0.054475 | 0.054475 | 0.076979 | 0.088257 | 0.081903 | 0.030756 | 0.089706 | 0.085755 | 0.016832 | 0.053668 | 0.060675 |
| 4 | 0.055134 | 0.089629 | 0.059136 | 0.059136 | 0.073896 | 0.087241 | 0.074688 | 0.031930 | 0.101333 | 0.102451 | 0.017265 | 0.064806 | 0.071965 |
| 5 | 0.056429 | 0.074963 | 0.058544 | 0.058544 | 0.064800 | 0.073271 | 0.072235 | 0.038481 | 0.056427 | 0.056032 | 0.017480 | 0.056252 | 0.057263 |
| 6 | 0.046994 | 0.069592 | 0.049366 | 0.049366 | 0.060109 | 0.072950 | 0.067439 | 0.033841 | 0.053431 | 0.050813 | 0.016168 | 0.057525 | 0.058116 |
| 7 | 0.045328 | 0.057499 | 0.039964 | 0.039964 | 0.037895 | 0.054587 | 0.037185 | 0.029629 | 0.069221 | 0.071436 | 0.019658 | 0.063625 | 0.060032 |
| 8 | 0.032562 | 0.047228 | 0.041399 | 0.041399 | 0.032631 | 0.058063 | 0.037061 | 0.029329 | 0.048059 | 0.048826 | 0.010126 | 0.032744 | 0.030871 |
| 9 | 0.028307 | 0.039774 | 0.034974 | 0.034974 | 0.028626 | 0.045687 | 0.037403 | 0.021577 | 0.017683 | 0.017043 | 0.019072 | 0.021855 | 0.019997 |
| 10 | 0.058464 | 0.031670 | 0.028719 | 0.028719 | 0.030584 | 0.058389 | 0.033855 | 0.015723 | 0.017940 | 0.016190 | 0.003209 | 0.028546 | 0.027428 |
| 11 | 0.053839 | 0.046170 | 0.046351 | 0.046351 | 0.033749 | 0.055020 | 0.041655 | 0.028360 | 0.044072 | 0.041381 | 0.005636 | 0.026198 | 0.024805 |
| 12 | 0.064755 | 0.043650 | 0.049287 | 0.049287 | 0.033542 | 0.048997 | 0.041464 | 0.023756 | 0.028590 | 0.027061 | 0.021238 | 0.087920 | 0.078722 |
| 13 | 0.061795 | 0.033678 | 0.045745 | 0.045745 | 0.033749 | 0.032921 | 0.035112 | 0.067292 | 0.030257 | 0.030204 | 0.035704 | 0.056383 | 0.050902 |
| 14 | 0.045143 | 0.030181 | 0.037120 | 0.037120 | 0.041041 | 0.027942 | 0.032880 | 0.054391 | 0.023951 | 0.025697 | 0.047926 | 0.048250 | 0.043087 |
| 15 | 0.037743 | 0.024954 | 0.039582 | 0.039582 | 0.024637 | 0.020580 | 0.028321 | 0.045855 | 0.018410 | 0.019228 | 0.037318 | 0.028953 | 0.024421 |
| 16 | 0.034598 | 0.020635 | 0.037778 | 0.037778 | 0.023580 | 0.020997 | 0.030362 | 0.038331 | 0.014718 | 0.015792 | 0.057546 | 0.022498 | 0.021618 |
| 17 | 0.036078 | 0.018056 | 0.039056 | 0.039056 | 0.030235 | 0.021194 | 0.022079 | 0.041875 | 0.013232 | 0.013489 | 0.043179 | 0.018760 | 0.016864 |
| 18 | 0.022202 | 0.014281 | 0.033604 | 0.033604 | 0.027245 | 0.019074 | 0.025355 | 0.037181 | 0.013138 | 0.013534 | 0.040195 | 0.025502 | 0.023545 |
| 19 | 0.014801 | 0.012135 | 0.026783 | 0.026783 | 0.030654 | 0.017111 | 0.027831 | 0.039087 | 0.010719 | 0.009828 | 0.026252 | 0.035354 | 0.032228 |
| 20 | 0.013136 | 0.008846 | 0.021819 | 0.021819 | 0.034835 | 0.011221 | 0.023655 | 0.046548 | 0.009528 | 0.009369 | 0.048337 | 0.027142 | 0.024374 |
| 21 | 0.008881 | 0.005942 | 0.013497 | 0.013497 | 0.020123 | 0.006993 | 0.012353 | 0.037509 | 0.003893 | 0.004506 | 0.074328 | 0.020163 | 0.018389 |
| 22 | 0.007586 | 0.004517 | 0.014353 | 0.014353 | 0.015973 | 0.003645 | 0.011362 | 0.023287 | 0.004563 | 0.004678 | 0.033379 | 0.013407 | 0.012671 |
| 23 | 0.007586 | 0.002589 | 0.010205 | 0.010205 | 0.013951 | 0.001543 | 0.009553 | 0.014916 | 0.002344 | 0.002323 | 0.055151 | 0.012108 | 0.012375 |
| 24 | 0.004255 | 0.002296 | 0.008783 | 0.008783 | 0.010520 | 0.001999 | 0.008005 | 0.018640 | 0.002225 | 0.002388 | 0.028706 | 0.012069 | 0.011774 |
| 25 | 0.004440 | 0.001692 | 0.007282 | 0.007282 | 0.010315 | 0.000349 | 0.008588 | 0.020653 | 0.001247 | 0.001414 | 0.031349 | 0.007491 | 0.008079 |
| 26 | 0.002960 | 0.001180 | 0.004596 | 0.004596 | 0.007620 | 0.000609 | 0.004188 | 0.012591 | 0.001003 | 0.001073 | 0.032556 | 0.005785 | 0.006273 |
| 27 | 0.001850 | 0.000913 | 0.003792 | 0.003792 | 0.006533 | 0.000084 | 0.004770 | 0.009602 | 0.000740 | 0.000713 | 0.019139 | 0.003739 | 0.003870 |
| 28 | 0.002220 | 0.000913 | 0.002713 | 0.002713 | 0.003915 | 0.000120 | 0.004184 | 0.007503 | 0.000677 | 0.000730 | 0.018470 | 0.002912 | 0.003640 |
| 29 | 0.001480 | 0.000657 | 0.002436 | 0.002436 | 0.003315 | 0.000091 | 0.005102 | 0.009226 | 0.000533 | 0.000653 | 0.012139 | 0.002335 | 0.003493 |
| 30 | 0.015726 | 0.005456 | 0.011193 | 0.011193 | 0.017635 | 0.000219 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Brazoria County 2023 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.061795 | 0.061189 | 0.051236 | 0.051236 | 0.055916 | 0.055916 | 0.055916 | 0.058180 | 0.107326 | 0.108951 | 0.058180 | 0.054796 | 0.068825 |
| 1 | 0.060500 | 0.084498 | 0.069065 | 0.069065 | 0.056272 | 0.056177 | 0.056259 | 0.058179 | 0.098838 | 0.103650 | 0.058578 | 0.056698 | 0.059543 |
| 2 | 0.060130 | 0.085123 | 0.057148 | 0.057148 | 0.053703 | 0.053595 | 0.053754 | 0.056574 | 0.113632 | 0.111268 | 0.057461 | 0.044354 | 0.047903 |
| 3 | 0.053284 | 0.080094 | 0.054475 | 0.054475 | 0.055079 | 0.054952 | 0.055275 | 0.057472 | 0.089706 | 0.085755 | 0.058467 | 0.053668 | 0.060675 |
| 4 | 0.055134 | 0.089629 | 0.059136 | 0.059136 | 0.057299 | 0.057046 | 0.057596 | 0.058908 | 0.101333 | 0.102451 | 0.060375 | 0.064806 | 0.071965 |
| 5 | 0.056429 | 0.074963 | 0.058544 | 0.058544 | 0.053587 | 0.052974 | 0.053667 | 0.055701 | 0.056427 | 0.056032 | 0.058115 | 0.056252 | 0.057263 |
| 6 | 0.046994 | 0.069592 | 0.049366 | 0.049366 | 0.072106 | 0.081694 | 0.076767 | 0.028881 | 0.053431 | 0.050813 | 0.016156 | 0.057525 | 0.058116 |
| 7 | 0.045328 | 0.057499 | 0.039964 | 0.039964 | 0.067500 | 0.078131 | 0.068119 | 0.029440 | 0.069221 | 0.071436 | 0.016327 | 0.063625 | 0.060032 |
| 8 | 0.032562 | 0.047228 | 0.041399 | 0.041399 | 0.057694 | 0.063477 | 0.064077 | 0.034826 | 0.048059 | 0.048826 | 0.016279 | 0.032744 | 0.030871 |
| 9 | 0.028307 | 0.039774 | 0.034974 | 0.034974 | 0.052840 | 0.062167 | 0.059003 | 0.030340 | 0.017683 | 0.017043 | 0.014941 | 0.021855 | 0.019997 |
| 10 | 0.058464 | 0.031670 | 0.028719 | 0.028719 | 0.032885 | 0.045715 | 0.032079 | 0.026323 | 0.017940 | 0.016190 | 0.018033 | 0.028546 | 0.027428 |
| 11 | 0.053839 | 0.046170 | 0.046351 | 0.046351 | 0.027950 | 0.047838 | 0.031525 | 0.025805 | 0.044072 | 0.041381 | 0.009215 | 0.026198 | 0.024805 |
| 12 | 0.064755 | 0.043650 | 0.049287 | 0.049287 | 0.024205 | 0.037017 | 0.031373 | 0.018806 | 0.028590 | 0.027061 | 0.017221 | 0.087920 | 0.078722 |
| 13 | 0.061795 | 0.033678 | 0.045745 | 0.045745 | 0.025189 | 0.045712 | 0.027598 | 0.013446 | 0.030257 | 0.030204 | 0.002852 | 0.056383 | 0.050902 |
| 14 | 0.045143 | 0.030181 | 0.037120 | 0.037120 | 0.027435 | 0.042348 | 0.033477 | 0.024021 | 0.023951 | 0.025697 | 0.004971 | 0.048250 | 0.043087 |
| 15 | 0.037743 | 0.024954 | 0.039582 | 0.039582 | 0.026908 | 0.037037 | 0.032845 | 0.019936 | 0.018410 | 0.019228 | 0.018594 | 0.028953 | 0.024421 |
| 16 | 0.034598 | 0.020635 | 0.037778 | 0.037778 | 0.026714 | 0.024469 | 0.027413 | 0.055915 | 0.014718 | 0.015792 | 0.031004 | 0.022498 | 0.021618 |
| 17 | 0.036078 | 0.018056 | 0.039056 | 0.039056 | 0.032058 | 0.020412 | 0.025303 | 0.044760 | 0.013232 | 0.013489 | 0.041292 | 0.018760 | 0.016864 |
| 18 | 0.022202 | 0.014281 | 0.033604 | 0.033604 | 0.018731 | 0.014509 | 0.021163 | 0.037012 | 0.013138 | 0.013534 | 0.031647 | 0.025502 | 0.023545 |
| 19 | 0.014801 | 0.012135 | 0.026783 | 0.026783 | 0.017689 | 0.014544 | 0.022359 | 0.030639 | 0.010719 | 0.009828 | 0.048417 | 0.035354 | 0.032228 |
| 20 | 0.013136 | 0.008846 | 0.021819 | 0.021819 | 0.022068 | 0.014159 | 0.015781 | 0.032824 | 0.009528 | 0.009369 | 0.035754 | 0.027142 | 0.024374 |
| 21 | 0.008881 | 0.005942 | 0.013497 | 0.013497 | 0.019618 | 0.012516 | 0.017856 | 0.028859 | 0.003893 | 0.004506 | 0.033019 | 0.020163 | 0.018389 |
| 22 | 0.007586 | 0.004517 | 0.014353 | 0.014353 | 0.021770 | 0.011016 | 0.019305 | 0.030050 | 0.004563 | 0.004678 | 0.021400 | 0.013407 | 0.012671 |
| 23 | 0.007586 | 0.002589 | 0.010205 | 0.010205 | 0.024396 | 0.007096 | 0.016162 | 0.035423 | 0.002344 | 0.002323 | 0.039074 | 0.012108 | 0.012375 |
| 24 | 0.004255 | 0.002296 | 0.008783 | 0.008783 | 0.013900 | 0.004343 | 0.008313 | 0.028262 | 0.002225 | 0.002388 | 0.059603 | 0.012069 | 0.011774 |
| 25 | 0.004440 | 0.001692 | 0.007282 | 0.007282 | 0.010880 | 0.002220 | 0.007530 | 0.017378 | 0.001247 | 0.001414 | 0.026560 | 0.007491 | 0.008079 |
| 26 | 0.002960 | 0.001180 | 0.004596 | 0.004596 | 0.009369 | 0.000923 | 0.006234 | 0.011017 | 0.001003 | 0.001073 | 0.043513 | 0.005785 | 0.006273 |
| 27 | 0.001850 | 0.000913 | 0.003792 | 0.003792 | 0.006966 | 0.001173 | 0.005145 | 0.013629 | 0.000740 | 0.000713 | 0.022466 | 0.003739 | 0.003870 |
| 28 | 0.002220 | 0.000913 | 0.002713 | 0.002713 | 0.006734 | 0.000201 | 0.005435 | 0.014955 | 0.000677 | 0.000730 | 0.024344 | 0.002912 | 0.003640 |
| 29 | 0.001480 | 0.000657 | 0.002436 | 0.002436 | 0.004904 | 0.000344 | 0.002609 | 0.009023 | 0.000533 | 0.000653 | 0.025065 | 0.002335 | 0.003493 |
| 30 | 0.015726 | 0.005456 | 0.011193 | 0.011193 | 0.017635 | 0.000280 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Brazoria County 2026 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.061795 | 0.061189 | 0.051236 | 0.051236 | 0.053311 | 0.053311 | 0.053311 | 0.055878 | 0.107326 | 0.108951 | 0.055878 | 0.054796 | 0.068825 |
| 1 | 0.060500 | 0.084498 | 0.069065 | 0.069065 | 0.053213 | 0.053082 | 0.053192 | 0.055727 | 0.098838 | 0.103650 | 0.056089 | 0.056698 | 0.059543 |
| 2 | 0.060130 | 0.085123 | 0.057148 | 0.057148 | 0.053415 | 0.053131 | 0.053387 | 0.055943 | 0.113632 | 0.111268 | 0.056737 | 0.044354 | 0.047903 |
| 3 | 0.053284 | 0.080094 | 0.054475 | 0.054475 | 0.054397 | 0.054004 | 0.054308 | 0.056503 | 0.089706 | 0.085755 | 0.058147 | 0.053668 | 0.060675 |
| 4 | 0.055134 | 0.089629 | 0.059136 | 0.059136 | 0.054744 | 0.054257 | 0.054641 | 0.056502 | 0.101333 | 0.102451 | 0.058545 | 0.064806 | 0.071965 |
| 5 | 0.056429 | 0.074963 | 0.058544 | 0.058544 | 0.051675 | 0.051124 | 0.051612 | 0.054469 | 0.056427 | 0.056032 | 0.056986 | 0.056252 | 0.057263 |
| 6 | 0.046994 | 0.069592 | 0.049366 | 0.049366 | 0.051827 | 0.051090 | 0.051839 | 0.054374 | 0.053431 | 0.050813 | 0.057096 | 0.057525 | 0.058116 |
| 7 | 0.045328 | 0.057499 | 0.039964 | 0.039964 | 0.052672 | 0.051595 | 0.052695 | 0.054749 | 0.069221 | 0.071436 | 0.058059 | 0.063625 | 0.060032 |
| 8 | 0.032562 | 0.047228 | 0.041399 | 0.041399 | 0.048125 | 0.046622 | 0.047904 | 0.050848 | 0.048059 | 0.048826 | 0.055022 | 0.032744 | 0.030871 |
| 9 | 0.028307 | 0.039774 | 0.034974 | 0.034974 | 0.064014 | 0.070939 | 0.067696 | 0.026131 | 0.017683 | 0.017043 | 0.015178 | 0.021855 | 0.019997 |
| 10 | 0.058464 | 0.031670 | 0.028719 | 0.028719 | 0.059196 | 0.066851 | 0.059289 | 0.026395 | 0.017940 | 0.016190 | 0.015220 | 0.028546 | 0.027428 |
| 11 | 0.053839 | 0.046170 | 0.046351 | 0.046351 | 0.050025 | 0.053616 | 0.055111 | 0.030946 | 0.044072 | 0.041381 | 0.015055 | 0.026198 | 0.024805 |
| 12 | 0.064755 | 0.043650 | 0.049287 | 0.049287 | 0.045285 | 0.051800 | 0.050126 | 0.026719 | 0.028590 | 0.027061 | 0.013710 | 0.087920 | 0.078722 |
| 13 | 0.061795 | 0.033678 | 0.045745 | 0.045745 | 0.027519 | 0.037038 | 0.026572 | 0.022762 | 0.030257 | 0.030204 | 0.016287 | 0.056383 | 0.050902 |
| 14 | 0.045143 | 0.030181 | 0.037120 | 0.037120 | 0.023114 | 0.038227 | 0.025789 | 0.022114 | 0.023951 | 0.025697 | 0.008257 | 0.048250 | 0.043087 |
| 15 | 0.037743 | 0.024954 | 0.039582 | 0.039582 | 0.019768 | 0.029133 | 0.025323 | 0.015965 | 0.018410 | 0.019228 | 0.015311 | 0.028953 | 0.024421 |
| 16 | 0.034598 | 0.020635 | 0.037778 | 0.037778 | 0.020334 | 0.035504 | 0.022005 | 0.011312 | 0.014718 | 0.015792 | 0.002516 | 0.022498 | 0.021618 |
| 17 | 0.036078 | 0.018056 | 0.039056 | 0.039056 | 0.021884 | 0.032433 | 0.026359 | 0.020025 | 0.013232 | 0.013489 | 0.004349 | 0.018760 | 0.016864 |
| 18 | 0.022202 | 0.014281 | 0.033604 | 0.033604 | 0.020946 | 0.027559 | 0.025198 | 0.016314 | 0.013138 | 0.013534 | 0.016009 | 0.025502 | 0.023545 |
| 19 | 0.014801 | 0.012135 | 0.026783 | 0.026783 | 0.020545 | 0.017950 | 0.020764 | 0.045336 | 0.010719 | 0.009828 | 0.026480 | 0.035354 | 0.032228 |
| 20 | 0.013136 | 0.008846 | 0.021819 | 0.021819 | 0.024052 | 0.014542 | 0.018668 | 0.035616 | 0.009528 | 0.009369 | 0.034700 | 0.027142 | 0.024374 |
| 21 | 0.008881 | 0.005942 | 0.013497 | 0.013497 | 0.013883 | 0.010189 | 0.015413 | 0.029179 | 0.003893 | 0.004506 | 0.026380 | 0.020163 | 0.018389 |
| 22 | 0.007586 | 0.004517 | 0.014353 | 0.014353 | 0.012940 | 0.010052 | 0.016058 | 0.023923 | 0.004563 | 0.004678 | 0.040035 | 0.013407 | 0.012671 |
| 23 | 0.007586 | 0.002589 | 0.010205 | 0.010205 | 0.015951 | 0.009652 | 0.011191 | 0.025391 | 0.002344 | 0.002323 | 0.029321 | 0.012108 | 0.012375 |
| 24 | 0.004255 | 0.002296 | 0.008783 | 0.008783 | 0.014005 | 0.008408 | 0.012497 | 0.022116 | 0.002225 | 0.002388 | 0.026858 | 0.012069 | 0.011774 |
| 25 | 0.004440 | 0.001692 | 0.007282 | 0.007282 | 0.015337 | 0.007281 | 0.013322 | 0.022806 | 0.001247 | 0.001414 | 0.017266 | 0.007491 | 0.008079 |
| 26 | 0.002960 | 0.001180 | 0.004596 | 0.004596 | 0.016979 | 0.004626 | 0.011010 | 0.026631 | 0.001003 | 0.001073 | 0.031264 | 0.005785 | 0.006273 |
| 27 | 0.001850 | 0.000913 | 0.003792 | 0.003792 | 0.009554 | 0.002789 | 0.005589 | 0.021048 | 0.000740 | 0.000713 | 0.047300 | 0.003739 | 0.003870 |
| 28 | 0.002220 | 0.000913 | 0.002713 | 0.002713 | 0.007379 | 0.001402 | 0.004990 | 0.012815 | 0.000677 | 0.000730 | 0.020905 | 0.002912 | 0.003640 |
| 29 | 0.001480 | 0.000657 | 0.002436 | 0.002436 | 0.006276 | 0.000575 | 0.004078 | 0.008047 | 0.000533 | 0.000653 | 0.033963 | 0.002335 | 0.003493 |
| 30 | 0.015726 | 0.005456 | 0.011193 | 0.011193 | 0.017635 | 0.001218 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Brazoria County 2027 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.061795 | 0.061189 | 0.051236 | 0.051236 | 0.052770 | 0.052770 | 0.052770 | 0.055385 | 0.107326 | 0.108951 | 0.055385 | 0.054796 | 0.068825 |
| 1 | 0.060500 | 0.084498 | 0.069065 | 0.069065 | 0.052814 | 0.052631 | 0.052756 | 0.055139 | 0.098838 | 0.103650 | 0.056488 | 0.056698 | 0.059543 |
| 2 | 0.060130 | 0.085123 | 0.057148 | 0.057148 | 0.052718 | 0.052406 | 0.052638 | 0.054991 | 0.113632 | 0.111268 | 0.056702 | 0.044354 | 0.047903 |
| 3 | 0.053284 | 0.080094 | 0.054475 | 0.054475 | 0.052918 | 0.052454 | 0.052831 | 0.055204 | 0.089706 | 0.085755 | 0.057356 | 0.053668 | 0.060675 |
| 4 | 0.055134 | 0.089629 | 0.059136 | 0.059136 | 0.053891 | 0.053316 | 0.053743 | 0.055756 | 0.101333 | 0.102451 | 0.058781 | 0.064806 | 0.071965 |
| 5 | 0.056429 | 0.074963 | 0.058544 | 0.058544 | 0.053660 | 0.052939 | 0.053478 | 0.055275 | 0.056427 | 0.056032 | 0.058720 | 0.056252 | 0.057263 |
| 6 | 0.046994 | 0.069592 | 0.049366 | 0.049366 | 0.050110 | 0.049293 | 0.049951 | 0.052822 | 0.053431 | 0.050813 | 0.056704 | 0.057525 | 0.058116 |
| 7 | 0.045328 | 0.057499 | 0.039964 | 0.039964 | 0.050257 | 0.049260 | 0.050171 | 0.052730 | 0.069221 | 0.071436 | 0.056813 | 0.063625 | 0.060032 |
| 8 | 0.032562 | 0.047228 | 0.041399 | 0.041399 | 0.050525 | 0.049151 | 0.050427 | 0.052628 | 0.048059 | 0.048826 | 0.057311 | 0.032744 | 0.030871 |
| 9 | 0.028307 | 0.039774 | 0.034974 | 0.034974 | 0.046163 | 0.044413 | 0.045842 | 0.048878 | 0.017683 | 0.017043 | 0.054314 | 0.021855 | 0.019997 |
| 10 | 0.058464 | 0.031670 | 0.028719 | 0.028719 | 0.061404 | 0.067579 | 0.064781 | 0.025119 | 0.017940 | 0.016190 | 0.014982 | 0.028546 | 0.027428 |
| 11 | 0.053839 | 0.046170 | 0.046351 | 0.046351 | 0.056161 | 0.062912 | 0.056092 | 0.025148 | 0.044072 | 0.041381 | 0.014903 | 0.026198 | 0.024805 |
| 12 | 0.064755 | 0.043650 | 0.049287 | 0.049287 | 0.047461 | 0.050457 | 0.052138 | 0.029484 | 0.028590 | 0.027061 | 0.014741 | 0.087920 | 0.078722 |
| 13 | 0.061795 | 0.033678 | 0.045745 | 0.045745 | 0.042489 | 0.048150 | 0.046877 | 0.025230 | 0.030257 | 0.030204 | 0.013316 | 0.056383 | 0.050902 |
| 14 | 0.045143 | 0.030181 | 0.037120 | 0.037120 | 0.025820 | 0.034428 | 0.024850 | 0.021493 | 0.023951 | 0.025697 | 0.015819 | 0.048250 | 0.043087 |
| 15 | 0.037743 | 0.024954 | 0.039582 | 0.039582 | 0.021687 | 0.035534 | 0.024118 | 0.020881 | 0.018410 | 0.019228 | 0.008020 | 0.028953 | 0.024421 |
| 16 | 0.034598 | 0.020635 | 0.037778 | 0.037778 | 0.018340 | 0.026744 | 0.023407 | 0.014939 | 0.014718 | 0.015792 | 0.014749 | 0.022498 | 0.021618 |
| 17 | 0.036078 | 0.018056 | 0.039056 | 0.039056 | 0.018865 | 0.032592 | 0.020340 | 0.010585 | 0.013232 | 0.013489 | 0.002423 | 0.018760 | 0.016864 |
| 18 | 0.022202 | 0.014281 | 0.033604 | 0.033604 | 0.020074 | 0.029399 | 0.024077 | 0.018568 | 0.013138 | 0.013534 | 0.004155 | 0.025502 | 0.023545 |
| 19 | 0.014801 | 0.012135 | 0.026783 | 0.026783 | 0.019213 | 0.024981 | 0.023017 | 0.015126 | 0.010719 | 0.009828 | 0.015295 | 0.035354 | 0.032228 |
| 20 | 0.013136 | 0.008846 | 0.021819 | 0.021819 | 0.018630 | 0.016064 | 0.018740 | 0.041651 | 0.009528 | 0.009369 | 0.025089 | 0.027142 | 0.024374 |
| 21 | 0.008881 | 0.005942 | 0.013497 | 0.013497 | 0.021810 | 0.013014 | 0.016849 | 0.032722 | 0.003893 | 0.004506 | 0.032878 | 0.020163 | 0.018389 |
| 22 | 0.007586 | 0.004517 | 0.014353 | 0.014353 | 0.012589 | 0.009118 | 0.013911 | 0.026807 | 0.004563 | 0.004678 | 0.024995 | 0.013407 | 0.012671 |
| 23 | 0.007586 | 0.002589 | 0.010205 | 0.010205 | 0.011598 | 0.008880 | 0.014318 | 0.021775 | 0.002344 | 0.002323 | 0.037614 | 0.012108 | 0.012375 |
| 24 | 0.004255 | 0.002296 | 0.008783 | 0.008783 | 0.014297 | 0.008526 | 0.009979 | 0.023111 | 0.002225 | 0.002388 | 0.027548 | 0.012069 | 0.011774 |
| 25 | 0.004440 | 0.001692 | 0.007282 | 0.007282 | 0.012553 | 0.007427 | 0.011144 | 0.020130 | 0.001247 | 0.001414 | 0.025235 | 0.007491 | 0.008079 |
| 26 | 0.002960 | 0.001180 | 0.004596 | 0.004596 | 0.013586 | 0.006348 | 0.011734 | 0.020564 | 0.001003 | 0.001073 | 0.016085 | 0.005785 | 0.006273 |
| 27 | 0.001850 | 0.000913 | 0.003792 | 0.003792 | 0.015041 | 0.004033 | 0.009698 | 0.024014 | 0.000740 | 0.000713 | 0.029126 | 0.003739 | 0.003870 |
| 28 | 0.002220 | 0.000913 | 0.002713 | 0.002713 | 0.008463 | 0.002432 | 0.004923 | 0.018979 | 0.000677 | 0.000730 | 0.044065 | 0.002912 | 0.003640 |
| 29 | 0.001480 | 0.000657 | 0.002436 | 0.002436 | 0.006459 | 0.001206 | 0.004341 | 0.011447 | 0.000533 | 0.000653 | 0.019310 | 0.002335 | 0.003493 |
| 30 | 0.015726 | 0.005456 | 0.011193 | 0.011193 | 0.017635 | 0.001542 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Chambers County 2011 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067365 | 0.074170 | 0.061786 | 0.061786 | 0.036180 | 0.074697 | 0.043899 | 0.020412 | 0.107326 | 0.108951 | 0.017572 | 0.054796 | 0.068825 |
| 1 | 0.074850 | 0.102367 | 0.085650 | 0.085650 | 0.039841 | 0.101513 | 0.042214 | 0.015110 | 0.098838 | 0.103650 | 0.002979 | 0.056698 | 0.059543 |
| 2 | 0.059880 | 0.099585 | 0.070976 | 0.070976 | 0.046623 | 0.104812 | 0.055843 | 0.028331 | 0.113632 | 0.111268 | 0.005313 | 0.044354 | 0.047903 |
| 3 | 0.086826 | 0.089212 | 0.060009 | 0.060009 | 0.049281 | 0.102921 | 0.059585 | 0.025227 | 0.089706 | 0.085755 | 0.020619 | 0.053668 | 0.060675 |
| 4 | 0.061377 | 0.094964 | 0.061863 | 0.061863 | 0.052966 | 0.076456 | 0.054774 | 0.076490 | 0.101333 | 0.102451 | 0.035762 | 0.064806 | 0.071965 |
| 5 | 0.047904 | 0.075538 | 0.063176 | 0.063176 | 0.068397 | 0.072053 | 0.055227 | 0.064970 | 0.056427 | 0.056032 | 0.048854 | 0.056252 | 0.057263 |
| 6 | 0.052395 | 0.065871 | 0.050587 | 0.050587 | 0.042648 | 0.057371 | 0.050452 | 0.056933 | 0.053431 | 0.050813 | 0.038874 | 0.057525 | 0.058116 |
| 7 | 0.035928 | 0.056017 | 0.041628 | 0.041628 | 0.042736 | 0.064267 | 0.058689 | 0.049088 | 0.069221 | 0.071436 | 0.060535 | 0.063625 | 0.060032 |
| 8 | 0.019461 | 0.040881 | 0.043173 | 0.043173 | 0.057372 | 0.070033 | 0.045203 | 0.055546 | 0.048059 | 0.048826 | 0.046135 | 0.032744 | 0.030871 |
| 9 | 0.029940 | 0.032676 | 0.032592 | 0.032592 | 0.054751 | 0.068493 | 0.055453 | 0.052116 | 0.017683 | 0.017043 | 0.044240 | 0.021855 | 0.019997 |
| 10 | 0.055389 | 0.027773 | 0.027495 | 0.027495 | 0.065557 | 0.068653 | 0.065744 | 0.057687 | 0.017940 | 0.016190 | 0.029414 | 0.028546 | 0.027428 |
| 11 | 0.055389 | 0.040834 | 0.045876 | 0.045876 | 0.078557 | 0.049889 | 0.060342 | 0.072218 | 0.044072 | 0.041381 | 0.055786 | 0.026198 | 0.024805 |
| 12 | 0.050898 | 0.039655 | 0.045181 | 0.045181 | 0.047578 | 0.034391 | 0.034339 | 0.060105 | 0.028590 | 0.027061 | 0.086656 | 0.087920 | 0.078722 |
| 13 | 0.071856 | 0.028150 | 0.039002 | 0.039002 | 0.039627 | 0.019471 | 0.033557 | 0.038712 | 0.030257 | 0.030204 | 0.039532 | 0.056383 | 0.050902 |
| 14 | 0.043413 | 0.023199 | 0.032901 | 0.032901 | 0.036599 | 0.009178 | 0.030650 | 0.026002 | 0.023951 | 0.025697 | 0.066825 | 0.048250 | 0.043087 |
| 15 | 0.034431 | 0.023152 | 0.035218 | 0.035218 | 0.029292 | 0.013218 | 0.027866 | 0.034289 | 0.018410 | 0.019228 | 0.035417 | 0.028953 | 0.024421 |
| 16 | 0.038922 | 0.016645 | 0.034600 | 0.034600 | 0.030064 | 0.002472 | 0.031547 | 0.039908 | 0.014718 | 0.015792 | 0.039586 | 0.022498 | 0.021618 |
| 17 | 0.017964 | 0.015466 | 0.034909 | 0.034909 | 0.023718 | 0.004862 | 0.016693 | 0.025686 | 0.013232 | 0.013489 | 0.041853 | 0.018760 | 0.016864 |
| 18 | 0.011976 | 0.010798 | 0.030816 | 0.030816 | 0.021178 | 0.000730 | 0.020301 | 0.020470 | 0.013138 | 0.013534 | 0.025183 | 0.025502 | 0.023545 |
| 19 | 0.017964 | 0.010232 | 0.020853 | 0.020853 | 0.013178 | 0.001112 | 0.018896 | 0.016540 | 0.010719 | 0.009828 | 0.024551 | 0.035354 | 0.032228 |
| 20 | 0.010479 | 0.007591 | 0.017300 | 0.017300 | 0.011799 | 0.000936 | 0.024538 | 0.021137 | 0.009528 | 0.009369 | 0.016394 | 0.027142 | 0.024374 |
| 21 | 0.019461 | 0.005847 | 0.010504 | 0.010504 | 0.017000 | 0.001181 | 0.026242 | 0.024395 | 0.003893 | 0.004506 | 0.025289 | 0.020163 | 0.018389 |
| 22 | 0.005988 | 0.004149 | 0.012975 | 0.012975 | 0.021289 | 0.000616 | 0.013673 | 0.017998 | 0.004563 | 0.004678 | 0.031470 | 0.013407 | 0.012671 |
| 23 | 0.011976 | 0.002499 | 0.010040 | 0.010040 | 0.013982 | 0.000249 | 0.014528 | 0.019271 | 0.002344 | 0.002323 | 0.028159 | 0.012108 | 0.012375 |
| 24 | 0.001497 | 0.002310 | 0.006796 | 0.006796 | 0.009457 | 0.000070 | 0.013551 | 0.017751 | 0.002225 | 0.002388 | 0.025783 | 0.012069 | 0.011774 |
| 25 | 0.004491 | 0.001980 | 0.005329 | 0.005329 | 0.007992 | 0.000024 | 0.010508 | 0.012854 | 0.001247 | 0.001414 | 0.015597 | 0.007491 | 0.008079 |
| 26 | 0.004491 | 0.001273 | 0.003167 | 0.003167 | 0.008237 | 0.000050 | 0.007903 | 0.012188 | 0.001003 | 0.001073 | 0.016256 | 0.005785 | 0.006273 |
| 27 | 0.000000 | 0.000754 | 0.002858 | 0.002858 | 0.006363 | 0.000037 | 0.006810 | 0.010137 | 0.000740 | 0.000713 | 0.015723 | 0.003739 | 0.003870 |
| 28 | 0.000000 | 0.000660 | 0.001699 | 0.001699 | 0.005349 | 0.000027 | 0.005974 | 0.008018 | 0.000677 | 0.000730 | 0.014339 | 0.002912 | 0.003640 |
| 29 | 0.001497 | 0.000236 | 0.001931 | 0.001931 | 0.004757 | 0.000020 | 0.004936 | 0.006995 | 0.000533 | 0.000653 | 0.014229 | 0.002335 | 0.003493 |
| 30 | 0.005988 | 0.005517 | 0.009113 | 0.009113 | 0.017635 | 0.000198 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Chambers County 2017 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067365 | 0.074170 | 0.061786 | 0.061786 | 0.078824 | 0.091142 | 0.083978 | 0.031614 | 0.107326 | 0.108951 | 0.016664 | 0.054796 | 0.068825 |
| 1 | 0.074850 | 0.102367 | 0.085650 | 0.085650 | 0.075667 | 0.090093 | 0.076580 | 0.032820 | 0.098838 | 0.103650 | 0.017093 | 0.056698 | 0.059543 |
| 2 | 0.059880 | 0.099585 | 0.070976 | 0.070976 | 0.067199 | 0.077034 | 0.075099 | 0.039904 | 0.113632 | 0.111268 | 0.017428 | 0.044354 | 0.047903 |
| 3 | 0.086826 | 0.089212 | 0.060009 | 0.060009 | 0.063959 | 0.079629 | 0.072132 | 0.035734 | 0.089706 | 0.085755 | 0.016351 | 0.053668 | 0.060675 |
| 4 | 0.061377 | 0.094964 | 0.061863 | 0.061863 | 0.041394 | 0.062045 | 0.040955 | 0.031878 | 0.101333 | 0.102451 | 0.020170 | 0.064806 | 0.071965 |
| 5 | 0.047904 | 0.075538 | 0.063176 | 0.063176 | 0.036596 | 0.068674 | 0.042028 | 0.032138 | 0.056427 | 0.056032 | 0.010539 | 0.056252 | 0.057263 |
| 6 | 0.052395 | 0.065871 | 0.050587 | 0.050587 | 0.032532 | 0.055132 | 0.043047 | 0.023869 | 0.053431 | 0.050813 | 0.019997 | 0.057525 | 0.058116 |
| 7 | 0.035928 | 0.056017 | 0.041628 | 0.041628 | 0.035230 | 0.072004 | 0.039560 | 0.017559 | 0.069221 | 0.071436 | 0.003389 | 0.063625 | 0.060032 |
| 8 | 0.019461 | 0.040881 | 0.043173 | 0.043173 | 0.039392 | 0.069145 | 0.049382 | 0.031958 | 0.048059 | 0.048826 | 0.005994 | 0.032744 | 0.030871 |
| 9 | 0.029940 | 0.032676 | 0.032592 | 0.032592 | 0.039680 | 0.062851 | 0.049899 | 0.027028 | 0.017683 | 0.017043 | 0.022758 | 0.021855 | 0.019997 |
| 10 | 0.055389 | 0.027773 | 0.027495 | 0.027495 | 0.041020 | 0.044016 | 0.043545 | 0.078002 | 0.017940 | 0.016190 | 0.038819 | 0.028546 | 0.027428 |
| 11 | 0.055389 | 0.040834 | 0.045876 | 0.045876 | 0.050566 | 0.038149 | 0.041402 | 0.063658 | 0.044072 | 0.041381 | 0.052497 | 0.026198 | 0.024805 |
| 12 | 0.050898 | 0.039655 | 0.045181 | 0.045181 | 0.030779 | 0.028742 | 0.036224 | 0.054189 | 0.028590 | 0.027061 | 0.041177 | 0.087920 | 0.078722 |
| 13 | 0.071856 | 0.028150 | 0.039002 | 0.039002 | 0.029860 | 0.029906 | 0.039417 | 0.045716 | 0.030257 | 0.030204 | 0.063961 | 0.056383 | 0.050902 |
| 14 | 0.043413 | 0.023199 | 0.032901 | 0.032901 | 0.038819 | 0.030838 | 0.029111 | 0.050432 | 0.023951 | 0.025697 | 0.048354 | 0.048250 | 0.043087 |
| 15 | 0.034431 | 0.023152 | 0.035218 | 0.035218 | 0.035967 | 0.028980 | 0.034482 | 0.045640 | 0.018410 | 0.019228 | 0.045680 | 0.028953 | 0.024421 |
| 16 | 0.038922 | 0.016645 | 0.034600 | 0.034600 | 0.041037 | 0.026572 | 0.038448 | 0.048454 | 0.014718 | 0.015792 | 0.030061 | 0.022498 | 0.021618 |
| 17 | 0.017964 | 0.015466 | 0.034909 | 0.034909 | 0.047968 | 0.018212 | 0.033726 | 0.058821 | 0.013232 | 0.013489 | 0.056177 | 0.018760 | 0.016864 |
| 18 | 0.011976 | 0.010798 | 0.030816 | 0.030816 | 0.028106 | 0.011607 | 0.017894 | 0.047873 | 0.013138 | 0.013534 | 0.087043 | 0.025502 | 0.023545 |
| 19 | 0.017964 | 0.010232 | 0.020853 | 0.020853 | 0.022635 | 0.006198 | 0.016732 | 0.030019 | 0.010719 | 0.009828 | 0.039384 | 0.035354 | 0.032228 |
| 20 | 0.010479 | 0.007591 | 0.017300 | 0.017300 | 0.020051 | 0.002680 | 0.014288 | 0.019410 | 0.009528 | 0.009369 | 0.065558 | 0.027142 | 0.024374 |
| 21 | 0.019461 | 0.005847 | 0.010504 | 0.010504 | 0.015338 | 0.003551 | 0.012169 | 0.024501 | 0.003893 | 0.004506 | 0.034386 | 0.020163 | 0.018389 |
| 22 | 0.005988 | 0.004149 | 0.012975 | 0.012975 | 0.015262 | 0.000636 | 0.013276 | 0.027421 | 0.004563 | 0.004678 | 0.037837 | 0.013407 | 0.012671 |
| 23 | 0.011976 | 0.002499 | 0.010040 | 0.010040 | 0.011438 | 0.001134 | 0.006577 | 0.016877 | 0.002344 | 0.002323 | 0.039588 | 0.012108 | 0.012375 |
| 24 | 0.001497 | 0.002310 | 0.006796 | 0.006796 | 0.009950 | 0.000160 | 0.007616 | 0.013002 | 0.002225 | 0.002388 | 0.023454 | 0.012069 | 0.011774 |
| 25 | 0.004491 | 0.001980 | 0.005329 | 0.005329 | 0.006052 | 0.000234 | 0.006794 | 0.010264 | 0.001247 | 0.001414 | 0.022808 | 0.007491 | 0.008079 |
| 26 | 0.004491 | 0.001273 | 0.003167 | 0.003167 | 0.005200 | 0.000182 | 0.008420 | 0.012742 | 0.001003 | 0.001073 | 0.015103 | 0.005785 | 0.006273 |
| 27 | 0.000000 | 0.000754 | 0.002858 | 0.002858 | 0.007295 | 0.000215 | 0.008562 | 0.014199 | 0.000740 | 0.000713 | 0.022934 | 0.003739 | 0.003870 |
| 28 | 0.000000 | 0.000660 | 0.001699 | 0.001699 | 0.008928 | 0.000108 | 0.004271 | 0.010231 | 0.000677 | 0.000730 | 0.028466 | 0.002912 | 0.003640 |
| 29 | 0.001497 | 0.000236 | 0.001931 | 0.001931 | 0.005620 | 0.000040 | 0.004325 | 0.010633 | 0.000533 | 0.000653 | 0.025257 | 0.002335 | 0.003493 |
| 30 | 0.005988 | 0.005517 | 0.009113 | 0.009113 | 0.017635 | 0.000091 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Chambers County 2018 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067365 | 0.074170 | 0.061786 | 0.061786 | 0.056764 | 0.056764 | 0.056764 | 0.059441 | 0.107326 | 0.108951 | 0.059441 | 0.054796 | 0.068825 |
| 1 | 0.074850 | 0.102367 | 0.085650 | 0.085650 | 0.078327 | 0.090363 | 0.083431 | 0.031402 | 0.098838 | 0.103650 | 0.016783 | 0.056698 | 0.059543 |
| 2 | 0.059880 | 0.099585 | 0.070976 | 0.070976 | 0.075191 | 0.089323 | 0.076081 | 0.032600 | 0.113632 | 0.111268 | 0.017214 | 0.044354 | 0.047903 |
| 3 | 0.086826 | 0.089212 | 0.060009 | 0.060009 | 0.066776 | 0.076375 | 0.074609 | 0.039636 | 0.089706 | 0.085755 | 0.017551 | 0.053668 | 0.060675 |
| 4 | 0.061377 | 0.094964 | 0.061863 | 0.061863 | 0.063556 | 0.078948 | 0.071662 | 0.035495 | 0.101333 | 0.102451 | 0.016467 | 0.064806 | 0.071965 |
| 5 | 0.047904 | 0.075538 | 0.063176 | 0.063176 | 0.040595 | 0.060250 | 0.040093 | 0.031371 | 0.056427 | 0.056032 | 0.020168 | 0.056252 | 0.057263 |
| 6 | 0.052395 | 0.065871 | 0.050587 | 0.050587 | 0.035413 | 0.065287 | 0.040533 | 0.031332 | 0.053431 | 0.050813 | 0.010463 | 0.057525 | 0.058116 |
| 7 | 0.035928 | 0.056017 | 0.041628 | 0.041628 | 0.031480 | 0.052413 | 0.041516 | 0.023270 | 0.069221 | 0.071436 | 0.019852 | 0.063625 | 0.060032 |
| 8 | 0.019461 | 0.040881 | 0.043173 | 0.043173 | 0.033634 | 0.066986 | 0.037578 | 0.016956 | 0.048059 | 0.048826 | 0.003340 | 0.032744 | 0.030871 |
| 9 | 0.029940 | 0.032676 | 0.032592 | 0.032592 | 0.037606 | 0.064326 | 0.046908 | 0.030862 | 0.017683 | 0.017043 | 0.005908 | 0.021855 | 0.019997 |
| 10 | 0.055389 | 0.027773 | 0.027495 | 0.027495 | 0.037881 | 0.058471 | 0.047399 | 0.026101 | 0.017940 | 0.016190 | 0.022431 | 0.028546 | 0.027428 |
| 11 | 0.055389 | 0.040834 | 0.045876 | 0.045876 | 0.038627 | 0.040052 | 0.040731 | 0.074609 | 0.044072 | 0.041381 | 0.037983 | 0.026198 | 0.024805 |
| 12 | 0.050898 | 0.039655 | 0.045181 | 0.045181 | 0.047616 | 0.034712 | 0.038727 | 0.060889 | 0.028590 | 0.027061 | 0.051366 | 0.087920 | 0.078722 |
| 13 | 0.071856 | 0.028150 | 0.039002 | 0.039002 | 0.028583 | 0.025567 | 0.033357 | 0.051333 | 0.030257 | 0.030204 | 0.039996 | 0.056383 | 0.050902 |
| 14 | 0.043413 | 0.023199 | 0.032901 | 0.032901 | 0.027729 | 0.026602 | 0.036297 | 0.043307 | 0.023951 | 0.025697 | 0.062126 | 0.048250 | 0.043087 |
| 15 | 0.034431 | 0.023152 | 0.035218 | 0.035218 | 0.036049 | 0.027432 | 0.026806 | 0.047774 | 0.018410 | 0.019228 | 0.046967 | 0.028953 | 0.024421 |
| 16 | 0.038922 | 0.016645 | 0.034600 | 0.034600 | 0.032933 | 0.025188 | 0.031252 | 0.042815 | 0.014718 | 0.015792 | 0.044042 | 0.022498 | 0.021618 |
| 17 | 0.017964 | 0.015466 | 0.034909 | 0.034909 | 0.037575 | 0.023095 | 0.034847 | 0.045455 | 0.013232 | 0.013489 | 0.028983 | 0.018760 | 0.016864 |
| 18 | 0.011976 | 0.010798 | 0.030816 | 0.030816 | 0.043298 | 0.015458 | 0.030076 | 0.054639 | 0.013138 | 0.013534 | 0.053761 | 0.025502 | 0.023545 |
| 19 | 0.017964 | 0.010232 | 0.020853 | 0.020853 | 0.025369 | 0.009852 | 0.015958 | 0.044470 | 0.010719 | 0.009828 | 0.083300 | 0.035354 | 0.032228 |
| 20 | 0.010479 | 0.007591 | 0.017300 | 0.017300 | 0.020137 | 0.005134 | 0.014678 | 0.027609 | 0.009528 | 0.009369 | 0.037408 | 0.027142 | 0.024374 |
| 21 | 0.019461 | 0.005847 | 0.010504 | 0.010504 | 0.017838 | 0.002220 | 0.012535 | 0.017851 | 0.003893 | 0.004506 | 0.062269 | 0.020163 | 0.018389 |
| 22 | 0.005988 | 0.004149 | 0.012975 | 0.012975 | 0.013645 | 0.002941 | 0.010676 | 0.022533 | 0.004563 | 0.004678 | 0.032661 | 0.013407 | 0.012671 |
| 23 | 0.011976 | 0.002499 | 0.010040 | 0.010040 | 0.013379 | 0.000514 | 0.011454 | 0.024967 | 0.002344 | 0.002323 | 0.035668 | 0.012108 | 0.012375 |
| 24 | 0.001497 | 0.002310 | 0.006796 | 0.006796 | 0.010027 | 0.000916 | 0.005674 | 0.015367 | 0.002225 | 0.002388 | 0.037319 | 0.012069 | 0.011774 |
| 25 | 0.004491 | 0.001980 | 0.005329 | 0.005329 | 0.008723 | 0.000129 | 0.006571 | 0.011838 | 0.001247 | 0.001414 | 0.022110 | 0.007491 | 0.008079 |
| 26 | 0.004491 | 0.001273 | 0.003167 | 0.003167 | 0.005227 | 0.000184 | 0.005762 | 0.009251 | 0.001003 | 0.001073 | 0.021337 | 0.005785 | 0.006273 |
| 27 | 0.000000 | 0.000754 | 0.002858 | 0.002858 | 0.004490 | 0.000144 | 0.007142 | 0.011484 | 0.000740 | 0.000713 | 0.014129 | 0.003739 | 0.003870 |
| 28 | 0.000000 | 0.000660 | 0.001699 | 0.001699 | 0.006300 | 0.000169 | 0.007262 | 0.012798 | 0.000677 | 0.000730 | 0.021455 | 0.002912 | 0.003640 |
| 29 | 0.001497 | 0.000236 | 0.001931 | 0.001931 | 0.007594 | 0.000083 | 0.003561 | 0.009127 | 0.000533 | 0.000653 | 0.026427 | 0.002335 | 0.003493 |
| 30 | 0.005988 | 0.005517 | 0.009113 | 0.009113 | 0.017635 | 0.000101 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Chambers County 2020 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067365 | 0.074170 | 0.061786 | 0.061786 | 0.056623 | 0.056623 | 0.056623 | 0.059505 | 0.107326 | 0.108951 | 0.059505 | 0.054796 | 0.068825 |
| 1 | 0.074850 | 0.102367 | 0.085650 | 0.085650 | 0.058906 | 0.058781 | 0.059000 | 0.060992 | 0.098838 | 0.103650 | 0.061446 | 0.056698 | 0.059543 |
| 2 | 0.059880 | 0.099585 | 0.070976 | 0.070976 | 0.055787 | 0.055441 | 0.055725 | 0.058218 | 0.113632 | 0.111268 | 0.059616 | 0.044354 | 0.047903 |
| 3 | 0.086826 | 0.089212 | 0.060009 | 0.060009 | 0.076979 | 0.088257 | 0.081903 | 0.030756 | 0.089706 | 0.085755 | 0.016832 | 0.053668 | 0.060675 |
| 4 | 0.061377 | 0.094964 | 0.061863 | 0.061863 | 0.073896 | 0.087241 | 0.074688 | 0.031930 | 0.101333 | 0.102451 | 0.017265 | 0.064806 | 0.071965 |
| 5 | 0.047904 | 0.075538 | 0.063176 | 0.063176 | 0.064800 | 0.073271 | 0.072235 | 0.038481 | 0.056427 | 0.056032 | 0.017480 | 0.056252 | 0.057263 |
| 6 | 0.052395 | 0.065871 | 0.050587 | 0.050587 | 0.060109 | 0.072950 | 0.067439 | 0.033841 | 0.053431 | 0.050813 | 0.016168 | 0.057525 | 0.058116 |
| 7 | 0.035928 | 0.056017 | 0.041628 | 0.041628 | 0.037895 | 0.054587 | 0.037185 | 0.029629 | 0.069221 | 0.071436 | 0.019658 | 0.063625 | 0.060032 |
| 8 | 0.019461 | 0.040881 | 0.043173 | 0.043173 | 0.032631 | 0.058063 | 0.037061 | 0.029329 | 0.048059 | 0.048826 | 0.010126 | 0.032744 | 0.030871 |
| 9 | 0.029940 | 0.032676 | 0.032592 | 0.032592 | 0.028626 | 0.045687 | 0.037403 | 0.021577 | 0.017683 | 0.017043 | 0.019072 | 0.021855 | 0.019997 |
| 10 | 0.055389 | 0.027773 | 0.027495 | 0.027495 | 0.030584 | 0.058389 | 0.033855 | 0.015723 | 0.017940 | 0.016190 | 0.003209 | 0.028546 | 0.027428 |
| 11 | 0.055389 | 0.040834 | 0.045876 | 0.045876 | 0.033749 | 0.055020 | 0.041655 | 0.028360 | 0.044072 | 0.041381 | 0.005636 | 0.026198 | 0.024805 |
| 12 | 0.050898 | 0.039655 | 0.045181 | 0.045181 | 0.033542 | 0.048997 | 0.041464 | 0.023756 | 0.028590 | 0.027061 | 0.021238 | 0.087920 | 0.078722 |
| 13 | 0.071856 | 0.028150 | 0.039002 | 0.039002 | 0.033749 | 0.032921 | 0.035112 | 0.067292 | 0.030257 | 0.030204 | 0.035704 | 0.056383 | 0.050902 |
| 14 | 0.043413 | 0.023199 | 0.032901 | 0.032901 | 0.041041 | 0.027942 | 0.032880 | 0.054391 | 0.023951 | 0.025697 | 0.047926 | 0.048250 | 0.043087 |
| 15 | 0.034431 | 0.023152 | 0.035218 | 0.035218 | 0.024637 | 0.020580 | 0.028321 | 0.045855 | 0.018410 | 0.019228 | 0.037318 | 0.028953 | 0.024421 |
| 16 | 0.038922 | 0.016645 | 0.034600 | 0.034600 | 0.023580 | 0.020997 | 0.030362 | 0.038331 | 0.014718 | 0.015792 | 0.057546 | 0.022498 | 0.021618 |
| 17 | 0.017964 | 0.015466 | 0.034909 | 0.034909 | 0.030235 | 0.021194 | 0.022079 | 0.041875 | 0.013232 | 0.013489 | 0.043179 | 0.018760 | 0.016864 |
| 18 | 0.011976 | 0.010798 | 0.030816 | 0.030816 | 0.027245 | 0.019074 | 0.025355 | 0.037181 | 0.013138 | 0.013534 | 0.040195 | 0.025502 | 0.023545 |
| 19 | 0.017964 | 0.010232 | 0.020853 | 0.020853 | 0.030654 | 0.017111 | 0.027831 | 0.039087 | 0.010719 | 0.009828 | 0.026252 | 0.035354 | 0.032228 |
| 20 | 0.010479 | 0.007591 | 0.017300 | 0.017300 | 0.034835 | 0.011221 | 0.023655 | 0.046548 | 0.009528 | 0.009369 | 0.048337 | 0.027142 | 0.024374 |
| 21 | 0.019461 | 0.005847 | 0.010504 | 0.010504 | 0.020123 | 0.006993 | 0.012353 | 0.037509 | 0.003893 | 0.004506 | 0.074328 | 0.020163 | 0.018389 |
| 22 | 0.005988 | 0.004149 | 0.012975 | 0.012975 | 0.015973 | 0.003645 | 0.011362 | 0.023287 | 0.004563 | 0.004678 | 0.033379 | 0.013407 | 0.012671 |
| 23 | 0.011976 | 0.002499 | 0.010040 | 0.010040 | 0.013951 | 0.001543 | 0.009553 | 0.014916 | 0.002344 | 0.002323 | 0.055151 | 0.012108 | 0.012375 |
| 24 | 0.001497 | 0.002310 | 0.006796 | 0.006796 | 0.010520 | 0.001999 | 0.008005 | 0.018640 | 0.002225 | 0.002388 | 0.028706 | 0.012069 | 0.011774 |
| 25 | 0.004491 | 0.001980 | 0.005329 | 0.005329 | 0.010315 | 0.000349 | 0.008588 | 0.020653 | 0.001247 | 0.001414 | 0.031349 | 0.007491 | 0.008079 |
| 26 | 0.004491 | 0.001273 | 0.003167 | 0.003167 | 0.007620 | 0.000609 | 0.004188 | 0.012591 | 0.001003 | 0.001073 | 0.032556 | 0.005785 | 0.006273 |
| 27 | 0.000000 | 0.000754 | 0.002858 | 0.002858 | 0.006533 | 0.000084 | 0.004770 | 0.009602 | 0.000740 | 0.000713 | 0.019139 | 0.003739 | 0.003870 |
| 28 | 0.000000 | 0.000660 | 0.001699 | 0.001699 | 0.003915 | 0.000120 | 0.004184 | 0.007503 | 0.000677 | 0.000730 | 0.018470 | 0.002912 | 0.003640 |
| 29 | 0.001497 | 0.000236 | 0.001931 | 0.001931 | 0.003315 | 0.000091 | 0.005102 | 0.009226 | 0.000533 | 0.000653 | 0.012139 | 0.002335 | 0.003493 |
| 30 | 0.005988 | 0.005517 | 0.009113 | 0.009113 | 0.017635 | 0.000219 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Chambers County 2023 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067365 | 0.074170 | 0.061786 | 0.061786 | 0.055916 | 0.055916 | 0.055916 | 0.058180 | 0.107326 | 0.108951 | 0.058180 | 0.054796 | 0.068825 |
| 1 | 0.074850 | 0.102367 | 0.085650 | 0.085650 | 0.056272 | 0.056177 | 0.056259 | 0.058179 | 0.098838 | 0.103650 | 0.058578 | 0.056698 | 0.059543 |
| 2 | 0.059880 | 0.099585 | 0.070976 | 0.070976 | 0.053703 | 0.053595 | 0.053754 | 0.056574 | 0.113632 | 0.111268 | 0.057461 | 0.044354 | 0.047903 |
| 3 | 0.086826 | 0.089212 | 0.060009 | 0.060009 | 0.055079 | 0.054952 | 0.055275 | 0.057472 | 0.089706 | 0.085755 | 0.058467 | 0.053668 | 0.060675 |
| 4 | 0.061377 | 0.094964 | 0.061863 | 0.061863 | 0.057299 | 0.057046 | 0.057596 | 0.058908 | 0.101333 | 0.102451 | 0.060375 | 0.064806 | 0.071965 |
| 5 | 0.047904 | 0.075538 | 0.063176 | 0.063176 | 0.053587 | 0.052974 | 0.053667 | 0.055701 | 0.056427 | 0.056032 | 0.058115 | 0.056252 | 0.057263 |
| 6 | 0.052395 | 0.065871 | 0.050587 | 0.050587 | 0.072106 | 0.081694 | 0.076767 | 0.028881 | 0.053431 | 0.050813 | 0.016156 | 0.057525 | 0.058116 |
| 7 | 0.035928 | 0.056017 | 0.041628 | 0.041628 | 0.067500 | 0.078131 | 0.068119 | 0.029440 | 0.069221 | 0.071436 | 0.016327 | 0.063625 | 0.060032 |
| 8 | 0.019461 | 0.040881 | 0.043173 | 0.043173 | 0.057694 | 0.063477 | 0.064077 | 0.034826 | 0.048059 | 0.048826 | 0.016279 | 0.032744 | 0.030871 |
| 9 | 0.029940 | 0.032676 | 0.032592 | 0.032592 | 0.052840 | 0.062167 | 0.059003 | 0.030340 | 0.017683 | 0.017043 | 0.014941 | 0.021855 | 0.019997 |
| 10 | 0.055389 | 0.027773 | 0.027495 | 0.027495 | 0.032885 | 0.045715 | 0.032079 | 0.026323 | 0.017940 | 0.016190 | 0.018033 | 0.028546 | 0.027428 |
| 11 | 0.055389 | 0.040834 | 0.045876 | 0.045876 | 0.027950 | 0.047838 | 0.031525 | 0.025805 | 0.044072 | 0.041381 | 0.009215 | 0.026198 | 0.024805 |
| 12 | 0.050898 | 0.039655 | 0.045181 | 0.045181 | 0.024205 | 0.037017 | 0.031373 | 0.018806 | 0.028590 | 0.027061 | 0.017221 | 0.087920 | 0.078722 |
| 13 | 0.071856 | 0.028150 | 0.039002 | 0.039002 | 0.025189 | 0.045712 | 0.027598 | 0.013446 | 0.030257 | 0.030204 | 0.002852 | 0.056383 | 0.050902 |
| 14 | 0.043413 | 0.023199 | 0.032901 | 0.032901 | 0.027435 | 0.042348 | 0.033477 | 0.024021 | 0.023951 | 0.025697 | 0.004971 | 0.048250 | 0.043087 |
| 15 | 0.034431 | 0.023152 | 0.035218 | 0.035218 | 0.026908 | 0.037037 | 0.032845 | 0.019936 | 0.018410 | 0.019228 | 0.018594 | 0.028953 | 0.024421 |
| 16 | 0.038922 | 0.016645 | 0.034600 | 0.034600 | 0.026714 | 0.024469 | 0.027413 | 0.055915 | 0.014718 | 0.015792 | 0.031004 | 0.022498 | 0.021618 |
| 17 | 0.017964 | 0.015466 | 0.034909 | 0.034909 | 0.032058 | 0.020412 | 0.025303 | 0.044760 | 0.013232 | 0.013489 | 0.041292 | 0.018760 | 0.016864 |
| 18 | 0.011976 | 0.010798 | 0.030816 | 0.030816 | 0.018731 | 0.014509 | 0.021163 | 0.037012 | 0.013138 | 0.013534 | 0.031647 | 0.025502 | 0.023545 |
| 19 | 0.017964 | 0.010232 | 0.020853 | 0.020853 | 0.017689 | 0.014544 | 0.022359 | 0.030639 | 0.010719 | 0.009828 | 0.048417 | 0.035354 | 0.032228 |
| 20 | 0.010479 | 0.007591 | 0.017300 | 0.017300 | 0.022068 | 0.014159 | 0.015781 | 0.032824 | 0.009528 | 0.009369 | 0.035754 | 0.027142 | 0.024374 |
| 21 | 0.019461 | 0.005847 | 0.010504 | 0.010504 | 0.019618 | 0.012516 | 0.017856 | 0.028859 | 0.003893 | 0.004506 | 0.033019 | 0.020163 | 0.018389 |
| 22 | 0.005988 | 0.004149 | 0.012975 | 0.012975 | 0.021770 | 0.011016 | 0.019305 | 0.030050 | 0.004563 | 0.004678 | 0.021400 | 0.013407 | 0.012671 |
| 23 | 0.011976 | 0.002499 | 0.010040 | 0.010040 | 0.024396 | 0.007096 | 0.016162 | 0.035423 | 0.002344 | 0.002323 | 0.039074 | 0.012108 | 0.012375 |
| 24 | 0.001497 | 0.002310 | 0.006796 | 0.006796 | 0.013900 | 0.004343 | 0.008313 | 0.028262 | 0.002225 | 0.002388 | 0.059603 | 0.012069 | 0.011774 |
| 25 | 0.004491 | 0.001980 | 0.005329 | 0.005329 | 0.010880 | 0.002220 | 0.007530 | 0.017378 | 0.001247 | 0.001414 | 0.026560 | 0.007491 | 0.008079 |
| 26 | 0.004491 | 0.001273 | 0.003167 | 0.003167 | 0.009369 | 0.000923 | 0.006234 | 0.011017 | 0.001003 | 0.001073 | 0.043513 | 0.005785 | 0.006273 |
| 27 | 0.000000 | 0.000754 | 0.002858 | 0.002858 | 0.006966 | 0.001173 | 0.005145 | 0.013629 | 0.000740 | 0.000713 | 0.022466 | 0.003739 | 0.003870 |
| 28 | 0.000000 | 0.000660 | 0.001699 | 0.001699 | 0.006734 | 0.000201 | 0.005435 | 0.014955 | 0.000677 | 0.000730 | 0.024344 | 0.002912 | 0.003640 |
| 29 | 0.001497 | 0.000236 | 0.001931 | 0.001931 | 0.004904 | 0.000344 | 0.002609 | 0.009023 | 0.000533 | 0.000653 | 0.025065 | 0.002335 | 0.003493 |
| 30 | 0.005988 | 0.005517 | 0.009113 | 0.009113 | 0.017635 | 0.000280 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Chambers County 2026 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067365 | 0.074170 | 0.061786 | 0.061786 | 0.053311 | 0.053311 | 0.053311 | 0.055878 | 0.107326 | 0.108951 | 0.055878 | 0.054796 | 0.068825 |
| 1 | 0.074850 | 0.102367 | 0.085650 | 0.085650 | 0.053213 | 0.053082 | 0.053192 | 0.055727 | 0.098838 | 0.103650 | 0.056089 | 0.056698 | 0.059543 |
| 2 | 0.059880 | 0.099585 | 0.070976 | 0.070976 | 0.053415 | 0.053131 | 0.053387 | 0.055943 | 0.113632 | 0.111268 | 0.056737 | 0.044354 | 0.047903 |
| 3 | 0.086826 | 0.089212 | 0.060009 | 0.060009 | 0.054397 | 0.054004 | 0.054308 | 0.056503 | 0.089706 | 0.085755 | 0.058147 | 0.053668 | 0.060675 |
| 4 | 0.061377 | 0.094964 | 0.061863 | 0.061863 | 0.054744 | 0.054257 | 0.054641 | 0.056502 | 0.101333 | 0.102451 | 0.058545 | 0.064806 | 0.071965 |
| 5 | 0.047904 | 0.075538 | 0.063176 | 0.063176 | 0.051675 | 0.051124 | 0.051612 | 0.054469 | 0.056427 | 0.056032 | 0.056986 | 0.056252 | 0.057263 |
| 6 | 0.052395 | 0.065871 | 0.050587 | 0.050587 | 0.051827 | 0.051090 | 0.051839 | 0.054374 | 0.053431 | 0.050813 | 0.057096 | 0.057525 | 0.058116 |
| 7 | 0.035928 | 0.056017 | 0.041628 | 0.041628 | 0.052672 | 0.051595 | 0.052695 | 0.054749 | 0.069221 | 0.071436 | 0.058059 | 0.063625 | 0.060032 |
| 8 | 0.019461 | 0.040881 | 0.043173 | 0.043173 | 0.048125 | 0.046622 | 0.047904 | 0.050848 | 0.048059 | 0.048826 | 0.055022 | 0.032744 | 0.030871 |
| 9 | 0.029940 | 0.032676 | 0.032592 | 0.032592 | 0.064014 | 0.070939 | 0.067696 | 0.026131 | 0.017683 | 0.017043 | 0.015178 | 0.021855 | 0.019997 |
| 10 | 0.055389 | 0.027773 | 0.027495 | 0.027495 | 0.059196 | 0.066851 | 0.059289 | 0.026395 | 0.017940 | 0.016190 | 0.015220 | 0.028546 | 0.027428 |
| 11 | 0.055389 | 0.040834 | 0.045876 | 0.045876 | 0.050025 | 0.053616 | 0.055111 | 0.030946 | 0.044072 | 0.041381 | 0.015055 | 0.026198 | 0.024805 |
| 12 | 0.050898 | 0.039655 | 0.045181 | 0.045181 | 0.045285 | 0.051800 | 0.050126 | 0.026719 | 0.028590 | 0.027061 | 0.013710 | 0.087920 | 0.078722 |
| 13 | 0.071856 | 0.028150 | 0.039002 | 0.039002 | 0.027519 | 0.037038 | 0.026572 | 0.022762 | 0.030257 | 0.030204 | 0.016287 | 0.056383 | 0.050902 |
| 14 | 0.043413 | 0.023199 | 0.032901 | 0.032901 | 0.023114 | 0.038227 | 0.025789 | 0.022114 | 0.023951 | 0.025697 | 0.008257 | 0.048250 | 0.043087 |
| 15 | 0.034431 | 0.023152 | 0.035218 | 0.035218 | 0.019768 | 0.029133 | 0.025323 | 0.015965 | 0.018410 | 0.019228 | 0.015311 | 0.028953 | 0.024421 |
| 16 | 0.038922 | 0.016645 | 0.034600 | 0.034600 | 0.020334 | 0.035504 | 0.022005 | 0.011312 | 0.014718 | 0.015792 | 0.002516 | 0.022498 | 0.021618 |
| 17 | 0.017964 | 0.015466 | 0.034909 | 0.034909 | 0.021884 | 0.032433 | 0.026359 | 0.020025 | 0.013232 | 0.013489 | 0.004349 | 0.018760 | 0.016864 |
| 18 | 0.011976 | 0.010798 | 0.030816 | 0.030816 | 0.020946 | 0.027559 | 0.025198 | 0.016314 | 0.013138 | 0.013534 | 0.016009 | 0.025502 | 0.023545 |
| 19 | 0.017964 | 0.010232 | 0.020853 | 0.020853 | 0.020545 | 0.017950 | 0.020764 | 0.045336 | 0.010719 | 0.009828 | 0.026480 | 0.035354 | 0.032228 |
| 20 | 0.010479 | 0.007591 | 0.017300 | 0.017300 | 0.024052 | 0.014542 | 0.018668 | 0.035616 | 0.009528 | 0.009369 | 0.034700 | 0.027142 | 0.024374 |
| 21 | 0.019461 | 0.005847 | 0.010504 | 0.010504 | 0.013883 | 0.010189 | 0.015413 | 0.029179 | 0.003893 | 0.004506 | 0.026380 | 0.020163 | 0.018389 |
| 22 | 0.005988 | 0.004149 | 0.012975 | 0.012975 | 0.012940 | 0.010052 | 0.016058 | 0.023923 | 0.004563 | 0.004678 | 0.040035 | 0.013407 | 0.012671 |
| 23 | 0.011976 | 0.002499 | 0.010040 | 0.010040 | 0.015951 | 0.009652 | 0.011191 | 0.025391 | 0.002344 | 0.002323 | 0.029321 | 0.012108 | 0.012375 |
| 24 | 0.001497 | 0.002310 | 0.006796 | 0.006796 | 0.014005 | 0.008408 | 0.012497 | 0.022116 | 0.002225 | 0.002388 | 0.026858 | 0.012069 | 0.011774 |
| 25 | 0.004491 | 0.001980 | 0.005329 | 0.005329 | 0.015337 | 0.007281 | 0.013322 | 0.022806 | 0.001247 | 0.001414 | 0.017266 | 0.007491 | 0.008079 |
| 26 | 0.004491 | 0.001273 | 0.003167 | 0.003167 | 0.016979 | 0.004626 | 0.011010 | 0.026631 | 0.001003 | 0.001073 | 0.031264 | 0.005785 | 0.006273 |
| 27 | 0.000000 | 0.000754 | 0.002858 | 0.002858 | 0.009554 | 0.002789 | 0.005589 | 0.021048 | 0.000740 | 0.000713 | 0.047300 | 0.003739 | 0.003870 |
| 28 | 0.000000 | 0.000660 | 0.001699 | 0.001699 | 0.007379 | 0.001402 | 0.004990 | 0.012815 | 0.000677 | 0.000730 | 0.020905 | 0.002912 | 0.003640 |
| 29 | 0.001497 | 0.000236 | 0.001931 | 0.001931 | 0.006276 | 0.000575 | 0.004078 | 0.008047 | 0.000533 | 0.000653 | 0.033963 | 0.002335 | 0.003493 |
| 30 | 0.005988 | 0.005517 | 0.009113 | 0.009113 | 0.017635 | 0.001218 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Chambers County 2027 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067365 | 0.074170 | 0.061786 | 0.061786 | 0.052770 | 0.052770 | 0.052770 | 0.055385 | 0.107326 | 0.108951 | 0.055385 | 0.054796 | 0.068825 |
| 1 | 0.074850 | 0.102367 | 0.085650 | 0.085650 | 0.052814 | 0.052631 | 0.052756 | 0.055139 | 0.098838 | 0.103650 | 0.056488 | 0.056698 | 0.059543 |
| 2 | 0.059880 | 0.099585 | 0.070976 | 0.070976 | 0.052718 | 0.052406 | 0.052638 | 0.054991 | 0.113632 | 0.111268 | 0.056702 | 0.044354 | 0.047903 |
| 3 | 0.086826 | 0.089212 | 0.060009 | 0.060009 | 0.052918 | 0.052454 | 0.052831 | 0.055204 | 0.089706 | 0.085755 | 0.057356 | 0.053668 | 0.060675 |
| 4 | 0.061377 | 0.094964 | 0.061863 | 0.061863 | 0.053891 | 0.053316 | 0.053743 | 0.055756 | 0.101333 | 0.102451 | 0.058781 | 0.064806 | 0.071965 |
| 5 | 0.047904 | 0.075538 | 0.063176 | 0.063176 | 0.053660 | 0.052939 | 0.053478 | 0.055275 | 0.056427 | 0.056032 | 0.058720 | 0.056252 | 0.057263 |
| 6 | 0.052395 | 0.065871 | 0.050587 | 0.050587 | 0.050110 | 0.049293 | 0.049951 | 0.052822 | 0.053431 | 0.050813 | 0.056704 | 0.057525 | 0.058116 |
| 7 | 0.035928 | 0.056017 | 0.041628 | 0.041628 | 0.050257 | 0.049260 | 0.050171 | 0.052730 | 0.069221 | 0.071436 | 0.056813 | 0.063625 | 0.060032 |
| 8 | 0.019461 | 0.040881 | 0.043173 | 0.043173 | 0.050525 | 0.049151 | 0.050427 | 0.052628 | 0.048059 | 0.048826 | 0.057311 | 0.032744 | 0.030871 |
| 9 | 0.029940 | 0.032676 | 0.032592 | 0.032592 | 0.046163 | 0.044413 | 0.045842 | 0.048878 | 0.017683 | 0.017043 | 0.054314 | 0.021855 | 0.019997 |
| 10 | 0.055389 | 0.027773 | 0.027495 | 0.027495 | 0.061404 | 0.067579 | 0.064781 | 0.025119 | 0.017940 | 0.016190 | 0.014982 | 0.028546 | 0.027428 |
| 11 | 0.055389 | 0.040834 | 0.045876 | 0.045876 | 0.056161 | 0.062912 | 0.056092 | 0.025148 | 0.044072 | 0.041381 | 0.014903 | 0.026198 | 0.024805 |
| 12 | 0.050898 | 0.039655 | 0.045181 | 0.045181 | 0.047461 | 0.050457 | 0.052138 | 0.029484 | 0.028590 | 0.027061 | 0.014741 | 0.087920 | 0.078722 |
| 13 | 0.071856 | 0.028150 | 0.039002 | 0.039002 | 0.042489 | 0.048150 | 0.046877 | 0.025230 | 0.030257 | 0.030204 | 0.013316 | 0.056383 | 0.050902 |
| 14 | 0.043413 | 0.023199 | 0.032901 | 0.032901 | 0.025820 | 0.034428 | 0.024850 | 0.021493 | 0.023951 | 0.025697 | 0.015819 | 0.048250 | 0.043087 |
| 15 | 0.034431 | 0.023152 | 0.035218 | 0.035218 | 0.021687 | 0.035534 | 0.024118 | 0.020881 | 0.018410 | 0.019228 | 0.008020 | 0.028953 | 0.024421 |
| 16 | 0.038922 | 0.016645 | 0.034600 | 0.034600 | 0.018340 | 0.026744 | 0.023407 | 0.014939 | 0.014718 | 0.015792 | 0.014749 | 0.022498 | 0.021618 |
| 17 | 0.017964 | 0.015466 | 0.034909 | 0.034909 | 0.018865 | 0.032592 | 0.020340 | 0.010585 | 0.013232 | 0.013489 | 0.002423 | 0.018760 | 0.016864 |
| 18 | 0.011976 | 0.010798 | 0.030816 | 0.030816 | 0.020074 | 0.029399 | 0.024077 | 0.018568 | 0.013138 | 0.013534 | 0.004155 | 0.025502 | 0.023545 |
| 19 | 0.017964 | 0.010232 | 0.020853 | 0.020853 | 0.019213 | 0.024981 | 0.023017 | 0.015126 | 0.010719 | 0.009828 | 0.015295 | 0.035354 | 0.032228 |
| 20 | 0.010479 | 0.007591 | 0.017300 | 0.017300 | 0.018630 | 0.016064 | 0.018740 | 0.041651 | 0.009528 | 0.009369 | 0.025089 | 0.027142 | 0.024374 |
| 21 | 0.019461 | 0.005847 | 0.010504 | 0.010504 | 0.021810 | 0.013014 | 0.016849 | 0.032722 | 0.003893 | 0.004506 | 0.032878 | 0.020163 | 0.018389 |
| 22 | 0.005988 | 0.004149 | 0.012975 | 0.012975 | 0.012589 | 0.009118 | 0.013911 | 0.026807 | 0.004563 | 0.004678 | 0.024995 | 0.013407 | 0.012671 |
| 23 | 0.011976 | 0.002499 | 0.010040 | 0.010040 | 0.011598 | 0.008880 | 0.014318 | 0.021775 | 0.002344 | 0.002323 | 0.037614 | 0.012108 | 0.012375 |
| 24 | 0.001497 | 0.002310 | 0.006796 | 0.006796 | 0.014297 | 0.008526 | 0.009979 | 0.023111 | 0.002225 | 0.002388 | 0.027548 | 0.012069 | 0.011774 |
| 25 | 0.004491 | 0.001980 | 0.005329 | 0.005329 | 0.012553 | 0.007427 | 0.011144 | 0.020130 | 0.001247 | 0.001414 | 0.025235 | 0.007491 | 0.008079 |
| 26 | 0.004491 | 0.001273 | 0.003167 | 0.003167 | 0.013586 | 0.006348 | 0.011734 | 0.020564 | 0.001003 | 0.001073 | 0.016085 | 0.005785 | 0.006273 |
| 27 | 0.000000 | 0.000754 | 0.002858 | 0.002858 | 0.015041 | 0.004033 | 0.009698 | 0.024014 | 0.000740 | 0.000713 | 0.029126 | 0.003739 | 0.003870 |
| 28 | 0.000000 | 0.000660 | 0.001699 | 0.001699 | 0.008463 | 0.002432 | 0.004923 | 0.018979 | 0.000677 | 0.000730 | 0.044065 | 0.002912 | 0.003640 |
| 29 | 0.001497 | 0.000236 | 0.001931 | 0.001931 | 0.006459 | 0.001206 | 0.004341 | 0.011447 | 0.000533 | 0.000653 | 0.019310 | 0.002335 | 0.003493 |
| 30 | 0.005988 | 0.005517 | 0.009113 | 0.009113 | 0.017635 | 0.001542 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Fort Bend County 2011 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.056937 | 0.063854 | 0.059009 | 0.059009 | 0.036180 | 0.074697 | 0.043899 | 0.020412 | 0.107326 | 0.108951 | 0.017572 | 0.054796 | 0.068825 |
| 1 | 0.075769 | 0.085558 | 0.075577 | 0.075577 | 0.039841 | 0.101513 | 0.042214 | 0.015110 | 0.098838 | 0.103650 | 0.002979 | 0.056698 | 0.059543 |
| 2 | 0.064587 | 0.088792 | 0.063943 | 0.063943 | 0.046623 | 0.104812 | 0.055843 | 0.028331 | 0.113632 | 0.111268 | 0.005313 | 0.044354 | 0.047903 |
| 3 | 0.068118 | 0.085781 | 0.060124 | 0.060124 | 0.049281 | 0.102921 | 0.059585 | 0.025227 | 0.089706 | 0.085755 | 0.020619 | 0.053668 | 0.060675 |
| 4 | 0.065029 | 0.094456 | 0.062762 | 0.062762 | 0.052966 | 0.076456 | 0.054774 | 0.076490 | 0.101333 | 0.102451 | 0.035762 | 0.064806 | 0.071965 |
| 5 | 0.066500 | 0.081303 | 0.063767 | 0.063767 | 0.068397 | 0.072053 | 0.055227 | 0.064970 | 0.056427 | 0.056032 | 0.048854 | 0.056252 | 0.057263 |
| 6 | 0.056348 | 0.075357 | 0.054704 | 0.054704 | 0.042648 | 0.057371 | 0.050452 | 0.056933 | 0.053431 | 0.050813 | 0.038874 | 0.057525 | 0.058116 |
| 7 | 0.050611 | 0.060597 | 0.043556 | 0.043556 | 0.042736 | 0.064267 | 0.058689 | 0.049088 | 0.069221 | 0.071436 | 0.060535 | 0.063625 | 0.060032 |
| 8 | 0.034133 | 0.050231 | 0.043225 | 0.043225 | 0.057372 | 0.070033 | 0.045203 | 0.055546 | 0.048059 | 0.048826 | 0.046135 | 0.032744 | 0.030871 |
| 9 | 0.026482 | 0.042140 | 0.035874 | 0.035874 | 0.054751 | 0.068493 | 0.055453 | 0.052116 | 0.017683 | 0.017043 | 0.044240 | 0.021855 | 0.019997 |
| 10 | 0.051935 | 0.033392 | 0.026745 | 0.026745 | 0.065557 | 0.068653 | 0.065744 | 0.057687 | 0.017940 | 0.016190 | 0.029414 | 0.028546 | 0.027428 |
| 11 | 0.052082 | 0.043067 | 0.045179 | 0.045179 | 0.078557 | 0.049889 | 0.060342 | 0.072218 | 0.044072 | 0.041381 | 0.055786 | 0.026198 | 0.024805 |
| 12 | 0.058702 | 0.040085 | 0.048004 | 0.048004 | 0.047578 | 0.034391 | 0.034339 | 0.060105 | 0.028590 | 0.027061 | 0.086656 | 0.087920 | 0.078722 |
| 13 | 0.053700 | 0.030779 | 0.041205 | 0.041205 | 0.039627 | 0.019471 | 0.033557 | 0.038712 | 0.030257 | 0.030204 | 0.039532 | 0.056383 | 0.050902 |
| 14 | 0.042960 | 0.025314 | 0.033997 | 0.033997 | 0.036599 | 0.009178 | 0.030650 | 0.026002 | 0.023951 | 0.025697 | 0.066825 | 0.048250 | 0.043087 |
| 15 | 0.026924 | 0.021278 | 0.036492 | 0.036492 | 0.029292 | 0.013218 | 0.027866 | 0.034289 | 0.018410 | 0.019228 | 0.035417 | 0.028953 | 0.024421 |
| 16 | 0.035015 | 0.017481 | 0.034450 | 0.034450 | 0.030064 | 0.002472 | 0.031547 | 0.039908 | 0.014718 | 0.015792 | 0.039586 | 0.022498 | 0.021618 |
| 17 | 0.027218 | 0.014401 | 0.034251 | 0.034251 | 0.023718 | 0.004862 | 0.016693 | 0.025686 | 0.013232 | 0.013489 | 0.041853 | 0.018760 | 0.016864 |
| 18 | 0.018685 | 0.011207 | 0.030134 | 0.030134 | 0.021178 | 0.000730 | 0.020301 | 0.020470 | 0.013138 | 0.013534 | 0.025183 | 0.025502 | 0.023545 |
| 19 | 0.012358 | 0.009129 | 0.022904 | 0.022904 | 0.013178 | 0.001112 | 0.018896 | 0.016540 | 0.010719 | 0.009828 | 0.024551 | 0.035354 | 0.032228 |
| 20 | 0.009710 | 0.006637 | 0.017661 | 0.017661 | 0.011799 | 0.000936 | 0.024538 | 0.021137 | 0.009528 | 0.009369 | 0.016394 | 0.027142 | 0.024374 |
| 21 | 0.008092 | 0.004649 | 0.012771 | 0.012771 | 0.017000 | 0.001181 | 0.026242 | 0.024395 | 0.003893 | 0.004506 | 0.025289 | 0.020163 | 0.018389 |
| 22 | 0.005002 | 0.003228 | 0.011270 | 0.011270 | 0.021289 | 0.000616 | 0.013673 | 0.017998 | 0.004563 | 0.004678 | 0.031470 | 0.013407 | 0.012671 |
| 23 | 0.003531 | 0.001920 | 0.007771 | 0.007771 | 0.013982 | 0.000249 | 0.014528 | 0.019271 | 0.002344 | 0.002323 | 0.028159 | 0.012108 | 0.012375 |
| 24 | 0.004561 | 0.001445 | 0.006546 | 0.006546 | 0.009457 | 0.000070 | 0.013551 | 0.017751 | 0.002225 | 0.002388 | 0.025783 | 0.012069 | 0.011774 |
| 25 | 0.002207 | 0.001124 | 0.006270 | 0.006270 | 0.007992 | 0.000024 | 0.010508 | 0.012854 | 0.001247 | 0.001414 | 0.015597 | 0.007491 | 0.008079 |
| 26 | 0.002354 | 0.000856 | 0.003709 | 0.003709 | 0.008237 | 0.000050 | 0.007903 | 0.012188 | 0.001003 | 0.001073 | 0.016256 | 0.005785 | 0.006273 |
| 27 | 0.001913 | 0.000672 | 0.003002 | 0.003002 | 0.006363 | 0.000037 | 0.006810 | 0.010137 | 0.000740 | 0.000713 | 0.015723 | 0.003739 | 0.003870 |
| 28 | 0.000883 | 0.000565 | 0.002417 | 0.002417 | 0.005349 | 0.000027 | 0.005974 | 0.008018 | 0.000677 | 0.000730 | 0.014339 | 0.002912 | 0.003640 |
| 29 | 0.000441 | 0.000482 | 0.002031 | 0.002031 | 0.004757 | 0.000020 | 0.004936 | 0.006995 | 0.000533 | 0.000653 | 0.014229 | 0.002335 | 0.003493 |
| 30 | 0.017213 | 0.004221 | 0.010652 | 0.010652 | 0.017635 | 0.000198 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Fort Bend County 2017 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.056937 | 0.063854 | 0.059009 | 0.059009 | 0.078824 | 0.091142 | 0.083978 | 0.031614 | 0.107326 | 0.108951 | 0.016664 | 0.054796 | 0.068825 |
| 1 | 0.075769 | 0.085558 | 0.075577 | 0.075577 | 0.075667 | 0.090093 | 0.076580 | 0.032820 | 0.098838 | 0.103650 | 0.017093 | 0.056698 | 0.059543 |
| 2 | 0.064587 | 0.088792 | 0.063943 | 0.063943 | 0.067199 | 0.077034 | 0.075099 | 0.039904 | 0.113632 | 0.111268 | 0.017428 | 0.044354 | 0.047903 |
| 3 | 0.068118 | 0.085781 | 0.060124 | 0.060124 | 0.063959 | 0.079629 | 0.072132 | 0.035734 | 0.089706 | 0.085755 | 0.016351 | 0.053668 | 0.060675 |
| 4 | 0.065029 | 0.094456 | 0.062762 | 0.062762 | 0.041394 | 0.062045 | 0.040955 | 0.031878 | 0.101333 | 0.102451 | 0.020170 | 0.064806 | 0.071965 |
| 5 | 0.066500 | 0.081303 | 0.063767 | 0.063767 | 0.036596 | 0.068674 | 0.042028 | 0.032138 | 0.056427 | 0.056032 | 0.010539 | 0.056252 | 0.057263 |
| 6 | 0.056348 | 0.075357 | 0.054704 | 0.054704 | 0.032532 | 0.055132 | 0.043047 | 0.023869 | 0.053431 | 0.050813 | 0.019997 | 0.057525 | 0.058116 |
| 7 | 0.050611 | 0.060597 | 0.043556 | 0.043556 | 0.035230 | 0.072004 | 0.039560 | 0.017559 | 0.069221 | 0.071436 | 0.003389 | 0.063625 | 0.060032 |
| 8 | 0.034133 | 0.050231 | 0.043225 | 0.043225 | 0.039392 | 0.069145 | 0.049382 | 0.031958 | 0.048059 | 0.048826 | 0.005994 | 0.032744 | 0.030871 |
| 9 | 0.026482 | 0.042140 | 0.035874 | 0.035874 | 0.039680 | 0.062851 | 0.049899 | 0.027028 | 0.017683 | 0.017043 | 0.022758 | 0.021855 | 0.019997 |
| 10 | 0.051935 | 0.033392 | 0.026745 | 0.026745 | 0.041020 | 0.044016 | 0.043545 | 0.078002 | 0.017940 | 0.016190 | 0.038819 | 0.028546 | 0.027428 |
| 11 | 0.052082 | 0.043067 | 0.045179 | 0.045179 | 0.050566 | 0.038149 | 0.041402 | 0.063658 | 0.044072 | 0.041381 | 0.052497 | 0.026198 | 0.024805 |
| 12 | 0.058702 | 0.040085 | 0.048004 | 0.048004 | 0.030779 | 0.028742 | 0.036224 | 0.054189 | 0.028590 | 0.027061 | 0.041177 | 0.087920 | 0.078722 |
| 13 | 0.053700 | 0.030779 | 0.041205 | 0.041205 | 0.029860 | 0.029906 | 0.039417 | 0.045716 | 0.030257 | 0.030204 | 0.063961 | 0.056383 | 0.050902 |
| 14 | 0.042960 | 0.025314 | 0.033997 | 0.033997 | 0.038819 | 0.030838 | 0.029111 | 0.050432 | 0.023951 | 0.025697 | 0.048354 | 0.048250 | 0.043087 |
| 15 | 0.026924 | 0.021278 | 0.036492 | 0.036492 | 0.035967 | 0.028980 | 0.034482 | 0.045640 | 0.018410 | 0.019228 | 0.045680 | 0.028953 | 0.024421 |
| 16 | 0.035015 | 0.017481 | 0.034450 | 0.034450 | 0.041037 | 0.026572 | 0.038448 | 0.048454 | 0.014718 | 0.015792 | 0.030061 | 0.022498 | 0.021618 |
| 17 | 0.027218 | 0.014401 | 0.034251 | 0.034251 | 0.047968 | 0.018212 | 0.033726 | 0.058821 | 0.013232 | 0.013489 | 0.056177 | 0.018760 | 0.016864 |
| 18 | 0.018685 | 0.011207 | 0.030134 | 0.030134 | 0.028106 | 0.011607 | 0.017894 | 0.047873 | 0.013138 | 0.013534 | 0.087043 | 0.025502 | 0.023545 |
| 19 | 0.012358 | 0.009129 | 0.022904 | 0.022904 | 0.022635 | 0.006198 | 0.016732 | 0.030019 | 0.010719 | 0.009828 | 0.039384 | 0.035354 | 0.032228 |
| 20 | 0.009710 | 0.006637 | 0.017661 | 0.017661 | 0.020051 | 0.002680 | 0.014288 | 0.019410 | 0.009528 | 0.009369 | 0.065558 | 0.027142 | 0.024374 |
| 21 | 0.008092 | 0.004649 | 0.012771 | 0.012771 | 0.015338 | 0.003551 | 0.012169 | 0.024501 | 0.003893 | 0.004506 | 0.034386 | 0.020163 | 0.018389 |
| 22 | 0.005002 | 0.003228 | 0.011270 | 0.011270 | 0.015262 | 0.000636 | 0.013276 | 0.027421 | 0.004563 | 0.004678 | 0.037837 | 0.013407 | 0.012671 |
| 23 | 0.003531 | 0.001920 | 0.007771 | 0.007771 | 0.011438 | 0.001134 | 0.006577 | 0.016877 | 0.002344 | 0.002323 | 0.039588 | 0.012108 | 0.012375 |
| 24 | 0.004561 | 0.001445 | 0.006546 | 0.006546 | 0.009950 | 0.000160 | 0.007616 | 0.013002 | 0.002225 | 0.002388 | 0.023454 | 0.012069 | 0.011774 |
| 25 | 0.002207 | 0.001124 | 0.006270 | 0.006270 | 0.006052 | 0.000234 | 0.006794 | 0.010264 | 0.001247 | 0.001414 | 0.022808 | 0.007491 | 0.008079 |
| 26 | 0.002354 | 0.000856 | 0.003709 | 0.003709 | 0.005200 | 0.000182 | 0.008420 | 0.012742 | 0.001003 | 0.001073 | 0.015103 | 0.005785 | 0.006273 |
| 27 | 0.001913 | 0.000672 | 0.003002 | 0.003002 | 0.007295 | 0.000215 | 0.008562 | 0.014199 | 0.000740 | 0.000713 | 0.022934 | 0.003739 | 0.003870 |
| 28 | 0.000883 | 0.000565 | 0.002417 | 0.002417 | 0.008928 | 0.000108 | 0.004271 | 0.010231 | 0.000677 | 0.000730 | 0.028466 | 0.002912 | 0.003640 |
| 29 | 0.000441 | 0.000482 | 0.002031 | 0.002031 | 0.005620 | 0.000040 | 0.004325 | 0.010633 | 0.000533 | 0.000653 | 0.025257 | 0.002335 | 0.003493 |
| 30 | 0.017213 | 0.004221 | 0.010652 | 0.010652 | 0.017635 | 0.000091 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Fort Bend County 2018 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.056937 | 0.063854 | 0.059009 | 0.059009 | 0.056764 | 0.056764 | 0.056764 | 0.059441 | 0.107326 | 0.108951 | 0.059441 | 0.054796 | 0.068825 |
| 1 | 0.075769 | 0.085558 | 0.075577 | 0.075577 | 0.078327 | 0.090363 | 0.083431 | 0.031402 | 0.098838 | 0.103650 | 0.016783 | 0.056698 | 0.059543 |
| 2 | 0.064587 | 0.088792 | 0.063943 | 0.063943 | 0.075191 | 0.089323 | 0.076081 | 0.032600 | 0.113632 | 0.111268 | 0.017214 | 0.044354 | 0.047903 |
| 3 | 0.068118 | 0.085781 | 0.060124 | 0.060124 | 0.066776 | 0.076375 | 0.074609 | 0.039636 | 0.089706 | 0.085755 | 0.017551 | 0.053668 | 0.060675 |
| 4 | 0.065029 | 0.094456 | 0.062762 | 0.062762 | 0.063556 | 0.078948 | 0.071662 | 0.035495 | 0.101333 | 0.102451 | 0.016467 | 0.064806 | 0.071965 |
| 5 | 0.066500 | 0.081303 | 0.063767 | 0.063767 | 0.040595 | 0.060250 | 0.040093 | 0.031371 | 0.056427 | 0.056032 | 0.020168 | 0.056252 | 0.057263 |
| 6 | 0.056348 | 0.075357 | 0.054704 | 0.054704 | 0.035413 | 0.065287 | 0.040533 | 0.031332 | 0.053431 | 0.050813 | 0.010463 | 0.057525 | 0.058116 |
| 7 | 0.050611 | 0.060597 | 0.043556 | 0.043556 | 0.031480 | 0.052413 | 0.041516 | 0.023270 | 0.069221 | 0.071436 | 0.019852 | 0.063625 | 0.060032 |
| 8 | 0.034133 | 0.050231 | 0.043225 | 0.043225 | 0.033634 | 0.066986 | 0.037578 | 0.016956 | 0.048059 | 0.048826 | 0.003340 | 0.032744 | 0.030871 |
| 9 | 0.026482 | 0.042140 | 0.035874 | 0.035874 | 0.037606 | 0.064326 | 0.046908 | 0.030862 | 0.017683 | 0.017043 | 0.005908 | 0.021855 | 0.019997 |
| 10 | 0.051935 | 0.033392 | 0.026745 | 0.026745 | 0.037881 | 0.058471 | 0.047399 | 0.026101 | 0.017940 | 0.016190 | 0.022431 | 0.028546 | 0.027428 |
| 11 | 0.052082 | 0.043067 | 0.045179 | 0.045179 | 0.038627 | 0.040052 | 0.040731 | 0.074609 | 0.044072 | 0.041381 | 0.037983 | 0.026198 | 0.024805 |
| 12 | 0.058702 | 0.040085 | 0.048004 | 0.048004 | 0.047616 | 0.034712 | 0.038727 | 0.060889 | 0.028590 | 0.027061 | 0.051366 | 0.087920 | 0.078722 |
| 13 | 0.053700 | 0.030779 | 0.041205 | 0.041205 | 0.028583 | 0.025567 | 0.033357 | 0.051333 | 0.030257 | 0.030204 | 0.039996 | 0.056383 | 0.050902 |
| 14 | 0.042960 | 0.025314 | 0.033997 | 0.033997 | 0.027729 | 0.026602 | 0.036297 | 0.043307 | 0.023951 | 0.025697 | 0.062126 | 0.048250 | 0.043087 |
| 15 | 0.026924 | 0.021278 | 0.036492 | 0.036492 | 0.036049 | 0.027432 | 0.026806 | 0.047774 | 0.018410 | 0.019228 | 0.046967 | 0.028953 | 0.024421 |
| 16 | 0.035015 | 0.017481 | 0.034450 | 0.034450 | 0.032933 | 0.025188 | 0.031252 | 0.042815 | 0.014718 | 0.015792 | 0.044042 | 0.022498 | 0.021618 |
| 17 | 0.027218 | 0.014401 | 0.034251 | 0.034251 | 0.037575 | 0.023095 | 0.034847 | 0.045455 | 0.013232 | 0.013489 | 0.028983 | 0.018760 | 0.016864 |
| 18 | 0.018685 | 0.011207 | 0.030134 | 0.030134 | 0.043298 | 0.015458 | 0.030076 | 0.054639 | 0.013138 | 0.013534 | 0.053761 | 0.025502 | 0.023545 |
| 19 | 0.012358 | 0.009129 | 0.022904 | 0.022904 | 0.025369 | 0.009852 | 0.015958 | 0.044470 | 0.010719 | 0.009828 | 0.083300 | 0.035354 | 0.032228 |
| 20 | 0.009710 | 0.006637 | 0.017661 | 0.017661 | 0.020137 | 0.005134 | 0.014678 | 0.027609 | 0.009528 | 0.009369 | 0.037408 | 0.027142 | 0.024374 |
| 21 | 0.008092 | 0.004649 | 0.012771 | 0.012771 | 0.017838 | 0.002220 | 0.012535 | 0.017851 | 0.003893 | 0.004506 | 0.062269 | 0.020163 | 0.018389 |
| 22 | 0.005002 | 0.003228 | 0.011270 | 0.011270 | 0.013645 | 0.002941 | 0.010676 | 0.022533 | 0.004563 | 0.004678 | 0.032661 | 0.013407 | 0.012671 |
| 23 | 0.003531 | 0.001920 | 0.007771 | 0.007771 | 0.013379 | 0.000514 | 0.011454 | 0.024967 | 0.002344 | 0.002323 | 0.035668 | 0.012108 | 0.012375 |
| 24 | 0.004561 | 0.001445 | 0.006546 | 0.006546 | 0.010027 | 0.000916 | 0.005674 | 0.015367 | 0.002225 | 0.002388 | 0.037319 | 0.012069 | 0.011774 |
| 25 | 0.002207 | 0.001124 | 0.006270 | 0.006270 | 0.008723 | 0.000129 | 0.006571 | 0.011838 | 0.001247 | 0.001414 | 0.022110 | 0.007491 | 0.008079 |
| 26 | 0.002354 | 0.000856 | 0.003709 | 0.003709 | 0.005227 | 0.000184 | 0.005762 | 0.009251 | 0.001003 | 0.001073 | 0.021337 | 0.005785 | 0.006273 |
| 27 | 0.001913 | 0.000672 | 0.003002 | 0.003002 | 0.004490 | 0.000144 | 0.007142 | 0.011484 | 0.000740 | 0.000713 | 0.014129 | 0.003739 | 0.003870 |
| 28 | 0.000883 | 0.000565 | 0.002417 | 0.002417 | 0.006300 | 0.000169 | 0.007262 | 0.012798 | 0.000677 | 0.000730 | 0.021455 | 0.002912 | 0.003640 |
| 29 | 0.000441 | 0.000482 | 0.002031 | 0.002031 | 0.007594 | 0.000083 | 0.003561 | 0.009127 | 0.000533 | 0.000653 | 0.026427 | 0.002335 | 0.003493 |
| 30 | 0.017213 | 0.004221 | 0.010652 | 0.010652 | 0.017635 | 0.000101 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Fort Bend County 2020 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.056937 | 0.063854 | 0.059009 | 0.059009 | 0.056623 | 0.056623 | 0.056623 | 0.059505 | 0.107326 | 0.108951 | 0.059505 | 0.054796 | 0.068825 |
| 1 | 0.075769 | 0.085558 | 0.075577 | 0.075577 | 0.058906 | 0.058781 | 0.059000 | 0.060992 | 0.098838 | 0.103650 | 0.061446 | 0.056698 | 0.059543 |
| 2 | 0.064587 | 0.088792 | 0.063943 | 0.063943 | 0.055787 | 0.055441 | 0.055725 | 0.058218 | 0.113632 | 0.111268 | 0.059616 | 0.044354 | 0.047903 |
| 3 | 0.068118 | 0.085781 | 0.060124 | 0.060124 | 0.076979 | 0.088257 | 0.081903 | 0.030756 | 0.089706 | 0.085755 | 0.016832 | 0.053668 | 0.060675 |
| 4 | 0.065029 | 0.094456 | 0.062762 | 0.062762 | 0.073896 | 0.087241 | 0.074688 | 0.031930 | 0.101333 | 0.102451 | 0.017265 | 0.064806 | 0.071965 |
| 5 | 0.066500 | 0.081303 | 0.063767 | 0.063767 | 0.064800 | 0.073271 | 0.072235 | 0.038481 | 0.056427 | 0.056032 | 0.017480 | 0.056252 | 0.057263 |
| 6 | 0.056348 | 0.075357 | 0.054704 | 0.054704 | 0.060109 | 0.072950 | 0.067439 | 0.033841 | 0.053431 | 0.050813 | 0.016168 | 0.057525 | 0.058116 |
| 7 | 0.050611 | 0.060597 | 0.043556 | 0.043556 | 0.037895 | 0.054587 | 0.037185 | 0.029629 | 0.069221 | 0.071436 | 0.019658 | 0.063625 | 0.060032 |
| 8 | 0.034133 | 0.050231 | 0.043225 | 0.043225 | 0.032631 | 0.058063 | 0.037061 | 0.029329 | 0.048059 | 0.048826 | 0.010126 | 0.032744 | 0.030871 |
| 9 | 0.026482 | 0.042140 | 0.035874 | 0.035874 | 0.028626 | 0.045687 | 0.037403 | 0.021577 | 0.017683 | 0.017043 | 0.019072 | 0.021855 | 0.019997 |
| 10 | 0.051935 | 0.033392 | 0.026745 | 0.026745 | 0.030584 | 0.058389 | 0.033855 | 0.015723 | 0.017940 | 0.016190 | 0.003209 | 0.028546 | 0.027428 |
| 11 | 0.052082 | 0.043067 | 0.045179 | 0.045179 | 0.033749 | 0.055020 | 0.041655 | 0.028360 | 0.044072 | 0.041381 | 0.005636 | 0.026198 | 0.024805 |
| 12 | 0.058702 | 0.040085 | 0.048004 | 0.048004 | 0.033542 | 0.048997 | 0.041464 | 0.023756 | 0.028590 | 0.027061 | 0.021238 | 0.087920 | 0.078722 |
| 13 | 0.053700 | 0.030779 | 0.041205 | 0.041205 | 0.033749 | 0.032921 | 0.035112 | 0.067292 | 0.030257 | 0.030204 | 0.035704 | 0.056383 | 0.050902 |
| 14 | 0.042960 | 0.025314 | 0.033997 | 0.033997 | 0.041041 | 0.027942 | 0.032880 | 0.054391 | 0.023951 | 0.025697 | 0.047926 | 0.048250 | 0.043087 |
| 15 | 0.026924 | 0.021278 | 0.036492 | 0.036492 | 0.024637 | 0.020580 | 0.028321 | 0.045855 | 0.018410 | 0.019228 | 0.037318 | 0.028953 | 0.024421 |
| 16 | 0.035015 | 0.017481 | 0.034450 | 0.034450 | 0.023580 | 0.020997 | 0.030362 | 0.038331 | 0.014718 | 0.015792 | 0.057546 | 0.022498 | 0.021618 |
| 17 | 0.027218 | 0.014401 | 0.034251 | 0.034251 | 0.030235 | 0.021194 | 0.022079 | 0.041875 | 0.013232 | 0.013489 | 0.043179 | 0.018760 | 0.016864 |
| 18 | 0.018685 | 0.011207 | 0.030134 | 0.030134 | 0.027245 | 0.019074 | 0.025355 | 0.037181 | 0.013138 | 0.013534 | 0.040195 | 0.025502 | 0.023545 |
| 19 | 0.012358 | 0.009129 | 0.022904 | 0.022904 | 0.030654 | 0.017111 | 0.027831 | 0.039087 | 0.010719 | 0.009828 | 0.026252 | 0.035354 | 0.032228 |
| 20 | 0.009710 | 0.006637 | 0.017661 | 0.017661 | 0.034835 | 0.011221 | 0.023655 | 0.046548 | 0.009528 | 0.009369 | 0.048337 | 0.027142 | 0.024374 |
| 21 | 0.008092 | 0.004649 | 0.012771 | 0.012771 | 0.020123 | 0.006993 | 0.012353 | 0.037509 | 0.003893 | 0.004506 | 0.074328 | 0.020163 | 0.018389 |
| 22 | 0.005002 | 0.003228 | 0.011270 | 0.011270 | 0.015973 | 0.003645 | 0.011362 | 0.023287 | 0.004563 | 0.004678 | 0.033379 | 0.013407 | 0.012671 |
| 23 | 0.003531 | 0.001920 | 0.007771 | 0.007771 | 0.013951 | 0.001543 | 0.009553 | 0.014916 | 0.002344 | 0.002323 | 0.055151 | 0.012108 | 0.012375 |
| 24 | 0.004561 | 0.001445 | 0.006546 | 0.006546 | 0.010520 | 0.001999 | 0.008005 | 0.018640 | 0.002225 | 0.002388 | 0.028706 | 0.012069 | 0.011774 |
| 25 | 0.002207 | 0.001124 | 0.006270 | 0.006270 | 0.010315 | 0.000349 | 0.008588 | 0.020653 | 0.001247 | 0.001414 | 0.031349 | 0.007491 | 0.008079 |
| 26 | 0.002354 | 0.000856 | 0.003709 | 0.003709 | 0.007620 | 0.000609 | 0.004188 | 0.012591 | 0.001003 | 0.001073 | 0.032556 | 0.005785 | 0.006273 |
| 27 | 0.001913 | 0.000672 | 0.003002 | 0.003002 | 0.006533 | 0.000084 | 0.004770 | 0.009602 | 0.000740 | 0.000713 | 0.019139 | 0.003739 | 0.003870 |
| 28 | 0.000883 | 0.000565 | 0.002417 | 0.002417 | 0.003915 | 0.000120 | 0.004184 | 0.007503 | 0.000677 | 0.000730 | 0.018470 | 0.002912 | 0.003640 |
| 29 | 0.000441 | 0.000482 | 0.002031 | 0.002031 | 0.003315 | 0.000091 | 0.005102 | 0.009226 | 0.000533 | 0.000653 | 0.012139 | 0.002335 | 0.003493 |
| 30 | 0.017213 | 0.004221 | 0.010652 | 0.010652 | 0.017635 | 0.000219 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Fort Bend County 2023 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.056937 | 0.063854 | 0.059009 | 0.059009 | 0.055916 | 0.055916 | 0.055916 | 0.058180 | 0.107326 | 0.108951 | 0.058180 | 0.054796 | 0.068825 |
| 1 | 0.075769 | 0.085558 | 0.075577 | 0.075577 | 0.056272 | 0.056177 | 0.056259 | 0.058179 | 0.098838 | 0.103650 | 0.058578 | 0.056698 | 0.059543 |
| 2 | 0.064587 | 0.088792 | 0.063943 | 0.063943 | 0.053703 | 0.053595 | 0.053754 | 0.056574 | 0.113632 | 0.111268 | 0.057461 | 0.044354 | 0.047903 |
| 3 | 0.068118 | 0.085781 | 0.060124 | 0.060124 | 0.055079 | 0.054952 | 0.055275 | 0.057472 | 0.089706 | 0.085755 | 0.058467 | 0.053668 | 0.060675 |
| 4 | 0.065029 | 0.094456 | 0.062762 | 0.062762 | 0.057299 | 0.057046 | 0.057596 | 0.058908 | 0.101333 | 0.102451 | 0.060375 | 0.064806 | 0.071965 |
| 5 | 0.066500 | 0.081303 | 0.063767 | 0.063767 | 0.053587 | 0.052974 | 0.053667 | 0.055701 | 0.056427 | 0.056032 | 0.058115 | 0.056252 | 0.057263 |
| 6 | 0.056348 | 0.075357 | 0.054704 | 0.054704 | 0.072106 | 0.081694 | 0.076767 | 0.028881 | 0.053431 | 0.050813 | 0.016156 | 0.057525 | 0.058116 |
| 7 | 0.050611 | 0.060597 | 0.043556 | 0.043556 | 0.067500 | 0.078131 | 0.068119 | 0.029440 | 0.069221 | 0.071436 | 0.016327 | 0.063625 | 0.060032 |
| 8 | 0.034133 | 0.050231 | 0.043225 | 0.043225 | 0.057694 | 0.063477 | 0.064077 | 0.034826 | 0.048059 | 0.048826 | 0.016279 | 0.032744 | 0.030871 |
| 9 | 0.026482 | 0.042140 | 0.035874 | 0.035874 | 0.052840 | 0.062167 | 0.059003 | 0.030340 | 0.017683 | 0.017043 | 0.014941 | 0.021855 | 0.019997 |
| 10 | 0.051935 | 0.033392 | 0.026745 | 0.026745 | 0.032885 | 0.045715 | 0.032079 | 0.026323 | 0.017940 | 0.016190 | 0.018033 | 0.028546 | 0.027428 |
| 11 | 0.052082 | 0.043067 | 0.045179 | 0.045179 | 0.027950 | 0.047838 | 0.031525 | 0.025805 | 0.044072 | 0.041381 | 0.009215 | 0.026198 | 0.024805 |
| 12 | 0.058702 | 0.040085 | 0.048004 | 0.048004 | 0.024205 | 0.037017 | 0.031373 | 0.018806 | 0.028590 | 0.027061 | 0.017221 | 0.087920 | 0.078722 |
| 13 | 0.053700 | 0.030779 | 0.041205 | 0.041205 | 0.025189 | 0.045712 | 0.027598 | 0.013446 | 0.030257 | 0.030204 | 0.002852 | 0.056383 | 0.050902 |
| 14 | 0.042960 | 0.025314 | 0.033997 | 0.033997 | 0.027435 | 0.042348 | 0.033477 | 0.024021 | 0.023951 | 0.025697 | 0.004971 | 0.048250 | 0.043087 |
| 15 | 0.026924 | 0.021278 | 0.036492 | 0.036492 | 0.026908 | 0.037037 | 0.032845 | 0.019936 | 0.018410 | 0.019228 | 0.018594 | 0.028953 | 0.024421 |
| 16 | 0.035015 | 0.017481 | 0.034450 | 0.034450 | 0.026714 | 0.024469 | 0.027413 | 0.055915 | 0.014718 | 0.015792 | 0.031004 | 0.022498 | 0.021618 |
| 17 | 0.027218 | 0.014401 | 0.034251 | 0.034251 | 0.032058 | 0.020412 | 0.025303 | 0.044760 | 0.013232 | 0.013489 | 0.041292 | 0.018760 | 0.016864 |
| 18 | 0.018685 | 0.011207 | 0.030134 | 0.030134 | 0.018731 | 0.014509 | 0.021163 | 0.037012 | 0.013138 | 0.013534 | 0.031647 | 0.025502 | 0.023545 |
| 19 | 0.012358 | 0.009129 | 0.022904 | 0.022904 | 0.017689 | 0.014544 | 0.022359 | 0.030639 | 0.010719 | 0.009828 | 0.048417 | 0.035354 | 0.032228 |
| 20 | 0.009710 | 0.006637 | 0.017661 | 0.017661 | 0.022068 | 0.014159 | 0.015781 | 0.032824 | 0.009528 | 0.009369 | 0.035754 | 0.027142 | 0.024374 |
| 21 | 0.008092 | 0.004649 | 0.012771 | 0.012771 | 0.019618 | 0.012516 | 0.017856 | 0.028859 | 0.003893 | 0.004506 | 0.033019 | 0.020163 | 0.018389 |
| 22 | 0.005002 | 0.003228 | 0.011270 | 0.011270 | 0.021770 | 0.011016 | 0.019305 | 0.030050 | 0.004563 | 0.004678 | 0.021400 | 0.013407 | 0.012671 |
| 23 | 0.003531 | 0.001920 | 0.007771 | 0.007771 | 0.024396 | 0.007096 | 0.016162 | 0.035423 | 0.002344 | 0.002323 | 0.039074 | 0.012108 | 0.012375 |
| 24 | 0.004561 | 0.001445 | 0.006546 | 0.006546 | 0.013900 | 0.004343 | 0.008313 | 0.028262 | 0.002225 | 0.002388 | 0.059603 | 0.012069 | 0.011774 |
| 25 | 0.002207 | 0.001124 | 0.006270 | 0.006270 | 0.010880 | 0.002220 | 0.007530 | 0.017378 | 0.001247 | 0.001414 | 0.026560 | 0.007491 | 0.008079 |
| 26 | 0.002354 | 0.000856 | 0.003709 | 0.003709 | 0.009369 | 0.000923 | 0.006234 | 0.011017 | 0.001003 | 0.001073 | 0.043513 | 0.005785 | 0.006273 |
| 27 | 0.001913 | 0.000672 | 0.003002 | 0.003002 | 0.006966 | 0.001173 | 0.005145 | 0.013629 | 0.000740 | 0.000713 | 0.022466 | 0.003739 | 0.003870 |
| 28 | 0.000883 | 0.000565 | 0.002417 | 0.002417 | 0.006734 | 0.000201 | 0.005435 | 0.014955 | 0.000677 | 0.000730 | 0.024344 | 0.002912 | 0.003640 |
| 29 | 0.000441 | 0.000482 | 0.002031 | 0.002031 | 0.004904 | 0.000344 | 0.002609 | 0.009023 | 0.000533 | 0.000653 | 0.025065 | 0.002335 | 0.003493 |
| 30 | 0.017213 | 0.004221 | 0.010652 | 0.010652 | 0.017635 | 0.000280 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Fort Bend County 2026 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.056937 | 0.063854 | 0.059009 | 0.059009 | 0.053311 | 0.053311 | 0.053311 | 0.055878 | 0.107326 | 0.108951 | 0.055878 | 0.054796 | 0.068825 |
| 1 | 0.075769 | 0.085558 | 0.075577 | 0.075577 | 0.053213 | 0.053082 | 0.053192 | 0.055727 | 0.098838 | 0.103650 | 0.056089 | 0.056698 | 0.059543 |
| 2 | 0.064587 | 0.088792 | 0.063943 | 0.063943 | 0.053415 | 0.053131 | 0.053387 | 0.055943 | 0.113632 | 0.111268 | 0.056737 | 0.044354 | 0.047903 |
| 3 | 0.068118 | 0.085781 | 0.060124 | 0.060124 | 0.054397 | 0.054004 | 0.054308 | 0.056503 | 0.089706 | 0.085755 | 0.058147 | 0.053668 | 0.060675 |
| 4 | 0.065029 | 0.094456 | 0.062762 | 0.062762 | 0.054744 | 0.054257 | 0.054641 | 0.056502 | 0.101333 | 0.102451 | 0.058545 | 0.064806 | 0.071965 |
| 5 | 0.066500 | 0.081303 | 0.063767 | 0.063767 | 0.051675 | 0.051124 | 0.051612 | 0.054469 | 0.056427 | 0.056032 | 0.056986 | 0.056252 | 0.057263 |
| 6 | 0.056348 | 0.075357 | 0.054704 | 0.054704 | 0.051827 | 0.051090 | 0.051839 | 0.054374 | 0.053431 | 0.050813 | 0.057096 | 0.057525 | 0.058116 |
| 7 | 0.050611 | 0.060597 | 0.043556 | 0.043556 | 0.052672 | 0.051595 | 0.052695 | 0.054749 | 0.069221 | 0.071436 | 0.058059 | 0.063625 | 0.060032 |
| 8 | 0.034133 | 0.050231 | 0.043225 | 0.043225 | 0.048125 | 0.046622 | 0.047904 | 0.050848 | 0.048059 | 0.048826 | 0.055022 | 0.032744 | 0.030871 |
| 9 | 0.026482 | 0.042140 | 0.035874 | 0.035874 | 0.064014 | 0.070939 | 0.067696 | 0.026131 | 0.017683 | 0.017043 | 0.015178 | 0.021855 | 0.019997 |
| 10 | 0.051935 | 0.033392 | 0.026745 | 0.026745 | 0.059196 | 0.066851 | 0.059289 | 0.026395 | 0.017940 | 0.016190 | 0.015220 | 0.028546 | 0.027428 |
| 11 | 0.052082 | 0.043067 | 0.045179 | 0.045179 | 0.050025 | 0.053616 | 0.055111 | 0.030946 | 0.044072 | 0.041381 | 0.015055 | 0.026198 | 0.024805 |
| 12 | 0.058702 | 0.040085 | 0.048004 | 0.048004 | 0.045285 | 0.051800 | 0.050126 | 0.026719 | 0.028590 | 0.027061 | 0.013710 | 0.087920 | 0.078722 |
| 13 | 0.053700 | 0.030779 | 0.041205 | 0.041205 | 0.027519 | 0.037038 | 0.026572 | 0.022762 | 0.030257 | 0.030204 | 0.016287 | 0.056383 | 0.050902 |
| 14 | 0.042960 | 0.025314 | 0.033997 | 0.033997 | 0.023114 | 0.038227 | 0.025789 | 0.022114 | 0.023951 | 0.025697 | 0.008257 | 0.048250 | 0.043087 |
| 15 | 0.026924 | 0.021278 | 0.036492 | 0.036492 | 0.019768 | 0.029133 | 0.025323 | 0.015965 | 0.018410 | 0.019228 | 0.015311 | 0.028953 | 0.024421 |
| 16 | 0.035015 | 0.017481 | 0.034450 | 0.034450 | 0.020334 | 0.035504 | 0.022005 | 0.011312 | 0.014718 | 0.015792 | 0.002516 | 0.022498 | 0.021618 |
| 17 | 0.027218 | 0.014401 | 0.034251 | 0.034251 | 0.021884 | 0.032433 | 0.026359 | 0.020025 | 0.013232 | 0.013489 | 0.004349 | 0.018760 | 0.016864 |
| 18 | 0.018685 | 0.011207 | 0.030134 | 0.030134 | 0.020946 | 0.027559 | 0.025198 | 0.016314 | 0.013138 | 0.013534 | 0.016009 | 0.025502 | 0.023545 |
| 19 | 0.012358 | 0.009129 | 0.022904 | 0.022904 | 0.020545 | 0.017950 | 0.020764 | 0.045336 | 0.010719 | 0.009828 | 0.026480 | 0.035354 | 0.032228 |
| 20 | 0.009710 | 0.006637 | 0.017661 | 0.017661 | 0.024052 | 0.014542 | 0.018668 | 0.035616 | 0.009528 | 0.009369 | 0.034700 | 0.027142 | 0.024374 |
| 21 | 0.008092 | 0.004649 | 0.012771 | 0.012771 | 0.013883 | 0.010189 | 0.015413 | 0.029179 | 0.003893 | 0.004506 | 0.026380 | 0.020163 | 0.018389 |
| 22 | 0.005002 | 0.003228 | 0.011270 | 0.011270 | 0.012940 | 0.010052 | 0.016058 | 0.023923 | 0.004563 | 0.004678 | 0.040035 | 0.013407 | 0.012671 |
| 23 | 0.003531 | 0.001920 | 0.007771 | 0.007771 | 0.015951 | 0.009652 | 0.011191 | 0.025391 | 0.002344 | 0.002323 | 0.029321 | 0.012108 | 0.012375 |
| 24 | 0.004561 | 0.001445 | 0.006546 | 0.006546 | 0.014005 | 0.008408 | 0.012497 | 0.022116 | 0.002225 | 0.002388 | 0.026858 | 0.012069 | 0.011774 |
| 25 | 0.002207 | 0.001124 | 0.006270 | 0.006270 | 0.015337 | 0.007281 | 0.013322 | 0.022806 | 0.001247 | 0.001414 | 0.017266 | 0.007491 | 0.008079 |
| 26 | 0.002354 | 0.000856 | 0.003709 | 0.003709 | 0.016979 | 0.004626 | 0.011010 | 0.026631 | 0.001003 | 0.001073 | 0.031264 | 0.005785 | 0.006273 |
| 27 | 0.001913 | 0.000672 | 0.003002 | 0.003002 | 0.009554 | 0.002789 | 0.005589 | 0.021048 | 0.000740 | 0.000713 | 0.047300 | 0.003739 | 0.003870 |
| 28 | 0.000883 | 0.000565 | 0.002417 | 0.002417 | 0.007379 | 0.001402 | 0.004990 | 0.012815 | 0.000677 | 0.000730 | 0.020905 | 0.002912 | 0.003640 |
| 29 | 0.000441 | 0.000482 | 0.002031 | 0.002031 | 0.006276 | 0.000575 | 0.004078 | 0.008047 | 0.000533 | 0.000653 | 0.033963 | 0.002335 | 0.003493 |
| 30 | 0.017213 | 0.004221 | 0.010652 | 0.010652 | 0.017635 | 0.001218 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Fort Bend County 2027 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.056937 | 0.063854 | 0.059009 | 0.059009 | 0.052770 | 0.052770 | 0.052770 | 0.055385 | 0.107326 | 0.108951 | 0.055385 | 0.054796 | 0.068825 |
| 1 | 0.075769 | 0.085558 | 0.075577 | 0.075577 | 0.052814 | 0.052631 | 0.052756 | 0.055139 | 0.098838 | 0.103650 | 0.056488 | 0.056698 | 0.059543 |
| 2 | 0.064587 | 0.088792 | 0.063943 | 0.063943 | 0.052718 | 0.052406 | 0.052638 | 0.054991 | 0.113632 | 0.111268 | 0.056702 | 0.044354 | 0.047903 |
| 3 | 0.068118 | 0.085781 | 0.060124 | 0.060124 | 0.052918 | 0.052454 | 0.052831 | 0.055204 | 0.089706 | 0.085755 | 0.057356 | 0.053668 | 0.060675 |
| 4 | 0.065029 | 0.094456 | 0.062762 | 0.062762 | 0.053891 | 0.053316 | 0.053743 | 0.055756 | 0.101333 | 0.102451 | 0.058781 | 0.064806 | 0.071965 |
| 5 | 0.066500 | 0.081303 | 0.063767 | 0.063767 | 0.053660 | 0.052939 | 0.053478 | 0.055275 | 0.056427 | 0.056032 | 0.058720 | 0.056252 | 0.057263 |
| 6 | 0.056348 | 0.075357 | 0.054704 | 0.054704 | 0.050110 | 0.049293 | 0.049951 | 0.052822 | 0.053431 | 0.050813 | 0.056704 | 0.057525 | 0.058116 |
| 7 | 0.050611 | 0.060597 | 0.043556 | 0.043556 | 0.050257 | 0.049260 | 0.050171 | 0.052730 | 0.069221 | 0.071436 | 0.056813 | 0.063625 | 0.060032 |
| 8 | 0.034133 | 0.050231 | 0.043225 | 0.043225 | 0.050525 | 0.049151 | 0.050427 | 0.052628 | 0.048059 | 0.048826 | 0.057311 | 0.032744 | 0.030871 |
| 9 | 0.026482 | 0.042140 | 0.035874 | 0.035874 | 0.046163 | 0.044413 | 0.045842 | 0.048878 | 0.017683 | 0.017043 | 0.054314 | 0.021855 | 0.019997 |
| 10 | 0.051935 | 0.033392 | 0.026745 | 0.026745 | 0.061404 | 0.067579 | 0.064781 | 0.025119 | 0.017940 | 0.016190 | 0.014982 | 0.028546 | 0.027428 |
| 11 | 0.052082 | 0.043067 | 0.045179 | 0.045179 | 0.056161 | 0.062912 | 0.056092 | 0.025148 | 0.044072 | 0.041381 | 0.014903 | 0.026198 | 0.024805 |
| 12 | 0.058702 | 0.040085 | 0.048004 | 0.048004 | 0.047461 | 0.050457 | 0.052138 | 0.029484 | 0.028590 | 0.027061 | 0.014741 | 0.087920 | 0.078722 |
| 13 | 0.053700 | 0.030779 | 0.041205 | 0.041205 | 0.042489 | 0.048150 | 0.046877 | 0.025230 | 0.030257 | 0.030204 | 0.013316 | 0.056383 | 0.050902 |
| 14 | 0.042960 | 0.025314 | 0.033997 | 0.033997 | 0.025820 | 0.034428 | 0.024850 | 0.021493 | 0.023951 | 0.025697 | 0.015819 | 0.048250 | 0.043087 |
| 15 | 0.026924 | 0.021278 | 0.036492 | 0.036492 | 0.021687 | 0.035534 | 0.024118 | 0.020881 | 0.018410 | 0.019228 | 0.008020 | 0.028953 | 0.024421 |
| 16 | 0.035015 | 0.017481 | 0.034450 | 0.034450 | 0.018340 | 0.026744 | 0.023407 | 0.014939 | 0.014718 | 0.015792 | 0.014749 | 0.022498 | 0.021618 |
| 17 | 0.027218 | 0.014401 | 0.034251 | 0.034251 | 0.018865 | 0.032592 | 0.020340 | 0.010585 | 0.013232 | 0.013489 | 0.002423 | 0.018760 | 0.016864 |
| 18 | 0.018685 | 0.011207 | 0.030134 | 0.030134 | 0.020074 | 0.029399 | 0.024077 | 0.018568 | 0.013138 | 0.013534 | 0.004155 | 0.025502 | 0.023545 |
| 19 | 0.012358 | 0.009129 | 0.022904 | 0.022904 | 0.019213 | 0.024981 | 0.023017 | 0.015126 | 0.010719 | 0.009828 | 0.015295 | 0.035354 | 0.032228 |
| 20 | 0.009710 | 0.006637 | 0.017661 | 0.017661 | 0.018630 | 0.016064 | 0.018740 | 0.041651 | 0.009528 | 0.009369 | 0.025089 | 0.027142 | 0.024374 |
| 21 | 0.008092 | 0.004649 | 0.012771 | 0.012771 | 0.021810 | 0.013014 | 0.016849 | 0.032722 | 0.003893 | 0.004506 | 0.032878 | 0.020163 | 0.018389 |
| 22 | 0.005002 | 0.003228 | 0.011270 | 0.011270 | 0.012589 | 0.009118 | 0.013911 | 0.026807 | 0.004563 | 0.004678 | 0.024995 | 0.013407 | 0.012671 |
| 23 | 0.003531 | 0.001920 | 0.007771 | 0.007771 | 0.011598 | 0.008880 | 0.014318 | 0.021775 | 0.002344 | 0.002323 | 0.037614 | 0.012108 | 0.012375 |
| 24 | 0.004561 | 0.001445 | 0.006546 | 0.006546 | 0.014297 | 0.008526 | 0.009979 | 0.023111 | 0.002225 | 0.002388 | 0.027548 | 0.012069 | 0.011774 |
| 25 | 0.002207 | 0.001124 | 0.006270 | 0.006270 | 0.012553 | 0.007427 | 0.011144 | 0.020130 | 0.001247 | 0.001414 | 0.025235 | 0.007491 | 0.008079 |
| 26 | 0.002354 | 0.000856 | 0.003709 | 0.003709 | 0.013586 | 0.006348 | 0.011734 | 0.020564 | 0.001003 | 0.001073 | 0.016085 | 0.005785 | 0.006273 |
| 27 | 0.001913 | 0.000672 | 0.003002 | 0.003002 | 0.015041 | 0.004033 | 0.009698 | 0.024014 | 0.000740 | 0.000713 | 0.029126 | 0.003739 | 0.003870 |
| 28 | 0.000883 | 0.000565 | 0.002417 | 0.002417 | 0.008463 | 0.002432 | 0.004923 | 0.018979 | 0.000677 | 0.000730 | 0.044065 | 0.002912 | 0.003640 |
| 29 | 0.000441 | 0.000482 | 0.002031 | 0.002031 | 0.006459 | 0.001206 | 0.004341 | 0.011447 | 0.000533 | 0.000653 | 0.019310 | 0.002335 | 0.003493 |
| 30 | 0.017213 | 0.004221 | 0.010652 | 0.010652 | 0.017635 | 0.001542 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Galveston County 2011 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.059392 | 0.059266 | 0.050818 | 0.050818 | 0.036180 | 0.074697 | 0.043899 | 0.020412 | 0.107326 | 0.108951 | 0.017572 | 0.054796 | 0.068825 |
| 1 | 0.068727 | 0.085363 | 0.072307 | 0.072307 | 0.039841 | 0.101513 | 0.042214 | 0.015110 | 0.098838 | 0.103650 | 0.002979 | 0.056698 | 0.059543 |
| 2 | 0.061323 | 0.090480 | 0.063375 | 0.063375 | 0.046623 | 0.104812 | 0.055843 | 0.028331 | 0.113632 | 0.111268 | 0.005313 | 0.044354 | 0.047903 |
| 3 | 0.059231 | 0.081649 | 0.057840 | 0.057840 | 0.049281 | 0.102921 | 0.059585 | 0.025227 | 0.089706 | 0.085755 | 0.020619 | 0.053668 | 0.060675 |
| 4 | 0.056333 | 0.088141 | 0.058295 | 0.058295 | 0.052966 | 0.076456 | 0.054774 | 0.076490 | 0.101333 | 0.102451 | 0.035762 | 0.064806 | 0.071965 |
| 5 | 0.053275 | 0.073997 | 0.061828 | 0.061828 | 0.068397 | 0.072053 | 0.055227 | 0.064970 | 0.056427 | 0.056032 | 0.048854 | 0.056252 | 0.057263 |
| 6 | 0.050056 | 0.068880 | 0.054079 | 0.054079 | 0.042648 | 0.057371 | 0.050452 | 0.056933 | 0.053431 | 0.050813 | 0.038874 | 0.057525 | 0.058116 |
| 7 | 0.039433 | 0.055310 | 0.041552 | 0.041552 | 0.042736 | 0.064267 | 0.058689 | 0.049088 | 0.069221 | 0.071436 | 0.060535 | 0.063625 | 0.060032 |
| 8 | 0.028811 | 0.045595 | 0.041082 | 0.041082 | 0.057372 | 0.070033 | 0.045203 | 0.055546 | 0.048059 | 0.048826 | 0.046135 | 0.032744 | 0.030871 |
| 9 | 0.027523 | 0.038449 | 0.036639 | 0.036639 | 0.054751 | 0.068493 | 0.055453 | 0.052116 | 0.017683 | 0.017043 | 0.044240 | 0.021855 | 0.019997 |
| 10 | 0.052953 | 0.032268 | 0.028753 | 0.028753 | 0.065557 | 0.068653 | 0.065744 | 0.057687 | 0.017940 | 0.016190 | 0.029414 | 0.028546 | 0.027428 |
| 11 | 0.051666 | 0.043966 | 0.048301 | 0.048301 | 0.078557 | 0.049889 | 0.060342 | 0.072218 | 0.044072 | 0.041381 | 0.055786 | 0.026198 | 0.024805 |
| 12 | 0.060357 | 0.042011 | 0.046799 | 0.046799 | 0.047578 | 0.034391 | 0.034339 | 0.060105 | 0.028590 | 0.027061 | 0.086656 | 0.087920 | 0.078722 |
| 13 | 0.053114 | 0.034009 | 0.042341 | 0.042341 | 0.039627 | 0.019471 | 0.033557 | 0.038712 | 0.030257 | 0.030204 | 0.039532 | 0.056383 | 0.050902 |
| 14 | 0.047964 | 0.029856 | 0.035259 | 0.035259 | 0.036599 | 0.009178 | 0.030650 | 0.026002 | 0.023951 | 0.025697 | 0.066825 | 0.048250 | 0.043087 |
| 15 | 0.034444 | 0.025043 | 0.039141 | 0.039141 | 0.029292 | 0.013218 | 0.027866 | 0.034289 | 0.018410 | 0.019228 | 0.035417 | 0.028953 | 0.024421 |
| 16 | 0.038468 | 0.021730 | 0.036320 | 0.036320 | 0.030064 | 0.002472 | 0.031547 | 0.039908 | 0.014718 | 0.015792 | 0.039586 | 0.022498 | 0.021618 |
| 17 | 0.033639 | 0.018405 | 0.036472 | 0.036472 | 0.023718 | 0.004862 | 0.016693 | 0.025686 | 0.013232 | 0.013489 | 0.041853 | 0.018760 | 0.016864 |
| 18 | 0.021407 | 0.014511 | 0.033378 | 0.033378 | 0.021178 | 0.000730 | 0.020301 | 0.020470 | 0.013138 | 0.013534 | 0.025183 | 0.025502 | 0.023545 |
| 19 | 0.020924 | 0.012172 | 0.024158 | 0.024158 | 0.013178 | 0.001112 | 0.018896 | 0.016540 | 0.010719 | 0.009828 | 0.024551 | 0.035354 | 0.032228 |
| 20 | 0.013842 | 0.008949 | 0.019684 | 0.019684 | 0.011799 | 0.000936 | 0.024538 | 0.021137 | 0.009528 | 0.009369 | 0.016394 | 0.027142 | 0.024374 |
| 21 | 0.011106 | 0.006593 | 0.013285 | 0.013285 | 0.017000 | 0.001181 | 0.026242 | 0.024395 | 0.003893 | 0.004506 | 0.025289 | 0.020163 | 0.018389 |
| 22 | 0.006921 | 0.004694 | 0.012799 | 0.012799 | 0.021289 | 0.000616 | 0.013673 | 0.017998 | 0.004563 | 0.004678 | 0.031470 | 0.013407 | 0.012671 |
| 23 | 0.009013 | 0.002880 | 0.008872 | 0.008872 | 0.013982 | 0.000249 | 0.014528 | 0.019271 | 0.002344 | 0.002323 | 0.028159 | 0.012108 | 0.012375 |
| 24 | 0.005150 | 0.002463 | 0.007507 | 0.007507 | 0.009457 | 0.000070 | 0.013551 | 0.017751 | 0.002225 | 0.002388 | 0.025783 | 0.012069 | 0.011774 |
| 25 | 0.002897 | 0.001944 | 0.006839 | 0.006839 | 0.007992 | 0.000024 | 0.010508 | 0.012854 | 0.001247 | 0.001414 | 0.015597 | 0.007491 | 0.008079 |
| 26 | 0.004024 | 0.001392 | 0.004565 | 0.004565 | 0.008237 | 0.000050 | 0.007903 | 0.012188 | 0.001003 | 0.001073 | 0.016256 | 0.005785 | 0.006273 |
| 27 | 0.001288 | 0.001082 | 0.002881 | 0.002881 | 0.006363 | 0.000037 | 0.006810 | 0.010137 | 0.000740 | 0.000713 | 0.015723 | 0.003739 | 0.003870 |
| 28 | 0.001449 | 0.000981 | 0.002199 | 0.002199 | 0.005349 | 0.000027 | 0.005974 | 0.008018 | 0.000677 | 0.000730 | 0.014339 | 0.002912 | 0.003640 |
| 29 | 0.002414 | 0.000800 | 0.002002 | 0.002002 | 0.004757 | 0.000020 | 0.004936 | 0.006995 | 0.000533 | 0.000653 | 0.014229 | 0.002335 | 0.003493 |
| 30 | 0.022855 | 0.007123 | 0.010631 | 0.010631 | 0.017635 | 0.000198 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Galveston County 2017 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.059392 | 0.059266 | 0.050818 | 0.050818 | 0.078824 | 0.091142 | 0.083978 | 0.031614 | 0.107326 | 0.108951 | 0.016664 | 0.054796 | 0.068825 |
| 1 | 0.068727 | 0.085363 | 0.072307 | 0.072307 | 0.075667 | 0.090093 | 0.076580 | 0.032820 | 0.098838 | 0.103650 | 0.017093 | 0.056698 | 0.059543 |
| 2 | 0.061323 | 0.090480 | 0.063375 | 0.063375 | 0.067199 | 0.077034 | 0.075099 | 0.039904 | 0.113632 | 0.111268 | 0.017428 | 0.044354 | 0.047903 |
| 3 | 0.059231 | 0.081649 | 0.057840 | 0.057840 | 0.063959 | 0.079629 | 0.072132 | 0.035734 | 0.089706 | 0.085755 | 0.016351 | 0.053668 | 0.060675 |
| 4 | 0.056333 | 0.088141 | 0.058295 | 0.058295 | 0.041394 | 0.062045 | 0.040955 | 0.031878 | 0.101333 | 0.102451 | 0.020170 | 0.064806 | 0.071965 |
| 5 | 0.053275 | 0.073997 | 0.061828 | 0.061828 | 0.036596 | 0.068674 | 0.042028 | 0.032138 | 0.056427 | 0.056032 | 0.010539 | 0.056252 | 0.057263 |
| 6 | 0.050056 | 0.068880 | 0.054079 | 0.054079 | 0.032532 | 0.055132 | 0.043047 | 0.023869 | 0.053431 | 0.050813 | 0.019997 | 0.057525 | 0.058116 |
| 7 | 0.039433 | 0.055310 | 0.041552 | 0.041552 | 0.035230 | 0.072004 | 0.039560 | 0.017559 | 0.069221 | 0.071436 | 0.003389 | 0.063625 | 0.060032 |
| 8 | 0.028811 | 0.045595 | 0.041082 | 0.041082 | 0.039392 | 0.069145 | 0.049382 | 0.031958 | 0.048059 | 0.048826 | 0.005994 | 0.032744 | 0.030871 |
| 9 | 0.027523 | 0.038449 | 0.036639 | 0.036639 | 0.039680 | 0.062851 | 0.049899 | 0.027028 | 0.017683 | 0.017043 | 0.022758 | 0.021855 | 0.019997 |
| 10 | 0.052953 | 0.032268 | 0.028753 | 0.028753 | 0.041020 | 0.044016 | 0.043545 | 0.078002 | 0.017940 | 0.016190 | 0.038819 | 0.028546 | 0.027428 |
| 11 | 0.051666 | 0.043966 | 0.048301 | 0.048301 | 0.050566 | 0.038149 | 0.041402 | 0.063658 | 0.044072 | 0.041381 | 0.052497 | 0.026198 | 0.024805 |
| 12 | 0.060357 | 0.042011 | 0.046799 | 0.046799 | 0.030779 | 0.028742 | 0.036224 | 0.054189 | 0.028590 | 0.027061 | 0.041177 | 0.087920 | 0.078722 |
| 13 | 0.053114 | 0.034009 | 0.042341 | 0.042341 | 0.029860 | 0.029906 | 0.039417 | 0.045716 | 0.030257 | 0.030204 | 0.063961 | 0.056383 | 0.050902 |
| 14 | 0.047964 | 0.029856 | 0.035259 | 0.035259 | 0.038819 | 0.030838 | 0.029111 | 0.050432 | 0.023951 | 0.025697 | 0.048354 | 0.048250 | 0.043087 |
| 15 | 0.034444 | 0.025043 | 0.039141 | 0.039141 | 0.035967 | 0.028980 | 0.034482 | 0.045640 | 0.018410 | 0.019228 | 0.045680 | 0.028953 | 0.024421 |
| 16 | 0.038468 | 0.021730 | 0.036320 | 0.036320 | 0.041037 | 0.026572 | 0.038448 | 0.048454 | 0.014718 | 0.015792 | 0.030061 | 0.022498 | 0.021618 |
| 17 | 0.033639 | 0.018405 | 0.036472 | 0.036472 | 0.047968 | 0.018212 | 0.033726 | 0.058821 | 0.013232 | 0.013489 | 0.056177 | 0.018760 | 0.016864 |
| 18 | 0.021407 | 0.014511 | 0.033378 | 0.033378 | 0.028106 | 0.011607 | 0.017894 | 0.047873 | 0.013138 | 0.013534 | 0.087043 | 0.025502 | 0.023545 |
| 19 | 0.020924 | 0.012172 | 0.024158 | 0.024158 | 0.022635 | 0.006198 | 0.016732 | 0.030019 | 0.010719 | 0.009828 | 0.039384 | 0.035354 | 0.032228 |
| 20 | 0.013842 | 0.008949 | 0.019684 | 0.019684 | 0.020051 | 0.002680 | 0.014288 | 0.019410 | 0.009528 | 0.009369 | 0.065558 | 0.027142 | 0.024374 |
| 21 | 0.011106 | 0.006593 | 0.013285 | 0.013285 | 0.015338 | 0.003551 | 0.012169 | 0.024501 | 0.003893 | 0.004506 | 0.034386 | 0.020163 | 0.018389 |
| 22 | 0.006921 | 0.004694 | 0.012799 | 0.012799 | 0.015262 | 0.000636 | 0.013276 | 0.027421 | 0.004563 | 0.004678 | 0.037837 | 0.013407 | 0.012671 |
| 23 | 0.009013 | 0.002880 | 0.008872 | 0.008872 | 0.011438 | 0.001134 | 0.006577 | 0.016877 | 0.002344 | 0.002323 | 0.039588 | 0.012108 | 0.012375 |
| 24 | 0.005150 | 0.002463 | 0.007507 | 0.007507 | 0.009950 | 0.000160 | 0.007616 | 0.013002 | 0.002225 | 0.002388 | 0.023454 | 0.012069 | 0.011774 |
| 25 | 0.002897 | 0.001944 | 0.006839 | 0.006839 | 0.006052 | 0.000234 | 0.006794 | 0.010264 | 0.001247 | 0.001414 | 0.022808 | 0.007491 | 0.008079 |
| 26 | 0.004024 | 0.001392 | 0.004565 | 0.004565 | 0.005200 | 0.000182 | 0.008420 | 0.012742 | 0.001003 | 0.001073 | 0.015103 | 0.005785 | 0.006273 |
| 27 | 0.001288 | 0.001082 | 0.002881 | 0.002881 | 0.007295 | 0.000215 | 0.008562 | 0.014199 | 0.000740 | 0.000713 | 0.022934 | 0.003739 | 0.003870 |
| 28 | 0.001449 | 0.000981 | 0.002199 | 0.002199 | 0.008928 | 0.000108 | 0.004271 | 0.010231 | 0.000677 | 0.000730 | 0.028466 | 0.002912 | 0.003640 |
| 29 | 0.002414 | 0.000800 | 0.002002 | 0.002002 | 0.005620 | 0.000040 | 0.004325 | 0.010633 | 0.000533 | 0.000653 | 0.025257 | 0.002335 | 0.003493 |
| 30 | 0.022855 | 0.007123 | 0.010631 | 0.010631 | 0.017635 | 0.000091 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Galveston County 2018 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.059392 | 0.059266 | 0.050818 | 0.050818 | 0.056764 | 0.056764 | 0.056764 | 0.059441 | 0.107326 | 0.108951 | 0.059441 | 0.054796 | 0.068825 |
| 1 | 0.068727 | 0.085363 | 0.072307 | 0.072307 | 0.078327 | 0.090363 | 0.083431 | 0.031402 | 0.098838 | 0.103650 | 0.016783 | 0.056698 | 0.059543 |
| 2 | 0.061323 | 0.090480 | 0.063375 | 0.063375 | 0.075191 | 0.089323 | 0.076081 | 0.032600 | 0.113632 | 0.111268 | 0.017214 | 0.044354 | 0.047903 |
| 3 | 0.059231 | 0.081649 | 0.057840 | 0.057840 | 0.066776 | 0.076375 | 0.074609 | 0.039636 | 0.089706 | 0.085755 | 0.017551 | 0.053668 | 0.060675 |
| 4 | 0.056333 | 0.088141 | 0.058295 | 0.058295 | 0.063556 | 0.078948 | 0.071662 | 0.035495 | 0.101333 | 0.102451 | 0.016467 | 0.064806 | 0.071965 |
| 5 | 0.053275 | 0.073997 | 0.061828 | 0.061828 | 0.040595 | 0.060250 | 0.040093 | 0.031371 | 0.056427 | 0.056032 | 0.020168 | 0.056252 | 0.057263 |
| 6 | 0.050056 | 0.068880 | 0.054079 | 0.054079 | 0.035413 | 0.065287 | 0.040533 | 0.031332 | 0.053431 | 0.050813 | 0.010463 | 0.057525 | 0.058116 |
| 7 | 0.039433 | 0.055310 | 0.041552 | 0.041552 | 0.031480 | 0.052413 | 0.041516 | 0.023270 | 0.069221 | 0.071436 | 0.019852 | 0.063625 | 0.060032 |
| 8 | 0.028811 | 0.045595 | 0.041082 | 0.041082 | 0.033634 | 0.066986 | 0.037578 | 0.016956 | 0.048059 | 0.048826 | 0.003340 | 0.032744 | 0.030871 |
| 9 | 0.027523 | 0.038449 | 0.036639 | 0.036639 | 0.037606 | 0.064326 | 0.046908 | 0.030862 | 0.017683 | 0.017043 | 0.005908 | 0.021855 | 0.019997 |
| 10 | 0.052953 | 0.032268 | 0.028753 | 0.028753 | 0.037881 | 0.058471 | 0.047399 | 0.026101 | 0.017940 | 0.016190 | 0.022431 | 0.028546 | 0.027428 |
| 11 | 0.051666 | 0.043966 | 0.048301 | 0.048301 | 0.038627 | 0.040052 | 0.040731 | 0.074609 | 0.044072 | 0.041381 | 0.037983 | 0.026198 | 0.024805 |
| 12 | 0.060357 | 0.042011 | 0.046799 | 0.046799 | 0.047616 | 0.034712 | 0.038727 | 0.060889 | 0.028590 | 0.027061 | 0.051366 | 0.087920 | 0.078722 |
| 13 | 0.053114 | 0.034009 | 0.042341 | 0.042341 | 0.028583 | 0.025567 | 0.033357 | 0.051333 | 0.030257 | 0.030204 | 0.039996 | 0.056383 | 0.050902 |
| 14 | 0.047964 | 0.029856 | 0.035259 | 0.035259 | 0.027729 | 0.026602 | 0.036297 | 0.043307 | 0.023951 | 0.025697 | 0.062126 | 0.048250 | 0.043087 |
| 15 | 0.034444 | 0.025043 | 0.039141 | 0.039141 | 0.036049 | 0.027432 | 0.026806 | 0.047774 | 0.018410 | 0.019228 | 0.046967 | 0.028953 | 0.024421 |
| 16 | 0.038468 | 0.021730 | 0.036320 | 0.036320 | 0.032933 | 0.025188 | 0.031252 | 0.042815 | 0.014718 | 0.015792 | 0.044042 | 0.022498 | 0.021618 |
| 17 | 0.033639 | 0.018405 | 0.036472 | 0.036472 | 0.037575 | 0.023095 | 0.034847 | 0.045455 | 0.013232 | 0.013489 | 0.028983 | 0.018760 | 0.016864 |
| 18 | 0.021407 | 0.014511 | 0.033378 | 0.033378 | 0.043298 | 0.015458 | 0.030076 | 0.054639 | 0.013138 | 0.013534 | 0.053761 | 0.025502 | 0.023545 |
| 19 | 0.020924 | 0.012172 | 0.024158 | 0.024158 | 0.025369 | 0.009852 | 0.015958 | 0.044470 | 0.010719 | 0.009828 | 0.083300 | 0.035354 | 0.032228 |
| 20 | 0.013842 | 0.008949 | 0.019684 | 0.019684 | 0.020137 | 0.005134 | 0.014678 | 0.027609 | 0.009528 | 0.009369 | 0.037408 | 0.027142 | 0.024374 |
| 21 | 0.011106 | 0.006593 | 0.013285 | 0.013285 | 0.017838 | 0.002220 | 0.012535 | 0.017851 | 0.003893 | 0.004506 | 0.062269 | 0.020163 | 0.018389 |
| 22 | 0.006921 | 0.004694 | 0.012799 | 0.012799 | 0.013645 | 0.002941 | 0.010676 | 0.022533 | 0.004563 | 0.004678 | 0.032661 | 0.013407 | 0.012671 |
| 23 | 0.009013 | 0.002880 | 0.008872 | 0.008872 | 0.013379 | 0.000514 | 0.011454 | 0.024967 | 0.002344 | 0.002323 | 0.035668 | 0.012108 | 0.012375 |
| 24 | 0.005150 | 0.002463 | 0.007507 | 0.007507 | 0.010027 | 0.000916 | 0.005674 | 0.015367 | 0.002225 | 0.002388 | 0.037319 | 0.012069 | 0.011774 |
| 25 | 0.002897 | 0.001944 | 0.006839 | 0.006839 | 0.008723 | 0.000129 | 0.006571 | 0.011838 | 0.001247 | 0.001414 | 0.022110 | 0.007491 | 0.008079 |
| 26 | 0.004024 | 0.001392 | 0.004565 | 0.004565 | 0.005227 | 0.000184 | 0.005762 | 0.009251 | 0.001003 | 0.001073 | 0.021337 | 0.005785 | 0.006273 |
| 27 | 0.001288 | 0.001082 | 0.002881 | 0.002881 | 0.004490 | 0.000144 | 0.007142 | 0.011484 | 0.000740 | 0.000713 | 0.014129 | 0.003739 | 0.003870 |
| 28 | 0.001449 | 0.000981 | 0.002199 | 0.002199 | 0.006300 | 0.000169 | 0.007262 | 0.012798 | 0.000677 | 0.000730 | 0.021455 | 0.002912 | 0.003640 |
| 29 | 0.002414 | 0.000800 | 0.002002 | 0.002002 | 0.007594 | 0.000083 | 0.003561 | 0.009127 | 0.000533 | 0.000653 | 0.026427 | 0.002335 | 0.003493 |
| 30 | 0.022855 | 0.007123 | 0.010631 | 0.010631 | 0.017635 | 0.000101 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Galveston County 2020 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.059392 | 0.059266 | 0.050818 | 0.050818 | 0.056623 | 0.056623 | 0.056623 | 0.059505 | 0.107326 | 0.108951 | 0.059505 | 0.054796 | 0.068825 |
| 1 | 0.068727 | 0.085363 | 0.072307 | 0.072307 | 0.058906 | 0.058781 | 0.059000 | 0.060992 | 0.098838 | 0.103650 | 0.061446 | 0.056698 | 0.059543 |
| 2 | 0.061323 | 0.090480 | 0.063375 | 0.063375 | 0.055787 | 0.055441 | 0.055725 | 0.058218 | 0.113632 | 0.111268 | 0.059616 | 0.044354 | 0.047903 |
| 3 | 0.059231 | 0.081649 | 0.057840 | 0.057840 | 0.076979 | 0.088257 | 0.081903 | 0.030756 | 0.089706 | 0.085755 | 0.016832 | 0.053668 | 0.060675 |
| 4 | 0.056333 | 0.088141 | 0.058295 | 0.058295 | 0.073896 | 0.087241 | 0.074688 | 0.031930 | 0.101333 | 0.102451 | 0.017265 | 0.064806 | 0.071965 |
| 5 | 0.053275 | 0.073997 | 0.061828 | 0.061828 | 0.064800 | 0.073271 | 0.072235 | 0.038481 | 0.056427 | 0.056032 | 0.017480 | 0.056252 | 0.057263 |
| 6 | 0.050056 | 0.068880 | 0.054079 | 0.054079 | 0.060109 | 0.072950 | 0.067439 | 0.033841 | 0.053431 | 0.050813 | 0.016168 | 0.057525 | 0.058116 |
| 7 | 0.039433 | 0.055310 | 0.041552 | 0.041552 | 0.037895 | 0.054587 | 0.037185 | 0.029629 | 0.069221 | 0.071436 | 0.019658 | 0.063625 | 0.060032 |
| 8 | 0.028811 | 0.045595 | 0.041082 | 0.041082 | 0.032631 | 0.058063 | 0.037061 | 0.029329 | 0.048059 | 0.048826 | 0.010126 | 0.032744 | 0.030871 |
| 9 | 0.027523 | 0.038449 | 0.036639 | 0.036639 | 0.028626 | 0.045687 | 0.037403 | 0.021577 | 0.017683 | 0.017043 | 0.019072 | 0.021855 | 0.019997 |
| 10 | 0.052953 | 0.032268 | 0.028753 | 0.028753 | 0.030584 | 0.058389 | 0.033855 | 0.015723 | 0.017940 | 0.016190 | 0.003209 | 0.028546 | 0.027428 |
| 11 | 0.051666 | 0.043966 | 0.048301 | 0.048301 | 0.033749 | 0.055020 | 0.041655 | 0.028360 | 0.044072 | 0.041381 | 0.005636 | 0.026198 | 0.024805 |
| 12 | 0.060357 | 0.042011 | 0.046799 | 0.046799 | 0.033542 | 0.048997 | 0.041464 | 0.023756 | 0.028590 | 0.027061 | 0.021238 | 0.087920 | 0.078722 |
| 13 | 0.053114 | 0.034009 | 0.042341 | 0.042341 | 0.033749 | 0.032921 | 0.035112 | 0.067292 | 0.030257 | 0.030204 | 0.035704 | 0.056383 | 0.050902 |
| 14 | 0.047964 | 0.029856 | 0.035259 | 0.035259 | 0.041041 | 0.027942 | 0.032880 | 0.054391 | 0.023951 | 0.025697 | 0.047926 | 0.048250 | 0.043087 |
| 15 | 0.034444 | 0.025043 | 0.039141 | 0.039141 | 0.024637 | 0.020580 | 0.028321 | 0.045855 | 0.018410 | 0.019228 | 0.037318 | 0.028953 | 0.024421 |
| 16 | 0.038468 | 0.021730 | 0.036320 | 0.036320 | 0.023580 | 0.020997 | 0.030362 | 0.038331 | 0.014718 | 0.015792 | 0.057546 | 0.022498 | 0.021618 |
| 17 | 0.033639 | 0.018405 | 0.036472 | 0.036472 | 0.030235 | 0.021194 | 0.022079 | 0.041875 | 0.013232 | 0.013489 | 0.043179 | 0.018760 | 0.016864 |
| 18 | 0.021407 | 0.014511 | 0.033378 | 0.033378 | 0.027245 | 0.019074 | 0.025355 | 0.037181 | 0.013138 | 0.013534 | 0.040195 | 0.025502 | 0.023545 |
| 19 | 0.020924 | 0.012172 | 0.024158 | 0.024158 | 0.030654 | 0.017111 | 0.027831 | 0.039087 | 0.010719 | 0.009828 | 0.026252 | 0.035354 | 0.032228 |
| 20 | 0.013842 | 0.008949 | 0.019684 | 0.019684 | 0.034835 | 0.011221 | 0.023655 | 0.046548 | 0.009528 | 0.009369 | 0.048337 | 0.027142 | 0.024374 |
| 21 | 0.011106 | 0.006593 | 0.013285 | 0.013285 | 0.020123 | 0.006993 | 0.012353 | 0.037509 | 0.003893 | 0.004506 | 0.074328 | 0.020163 | 0.018389 |
| 22 | 0.006921 | 0.004694 | 0.012799 | 0.012799 | 0.015973 | 0.003645 | 0.011362 | 0.023287 | 0.004563 | 0.004678 | 0.033379 | 0.013407 | 0.012671 |
| 23 | 0.009013 | 0.002880 | 0.008872 | 0.008872 | 0.013951 | 0.001543 | 0.009553 | 0.014916 | 0.002344 | 0.002323 | 0.055151 | 0.012108 | 0.012375 |
| 24 | 0.005150 | 0.002463 | 0.007507 | 0.007507 | 0.010520 | 0.001999 | 0.008005 | 0.018640 | 0.002225 | 0.002388 | 0.028706 | 0.012069 | 0.011774 |
| 25 | 0.002897 | 0.001944 | 0.006839 | 0.006839 | 0.010315 | 0.000349 | 0.008588 | 0.020653 | 0.001247 | 0.001414 | 0.031349 | 0.007491 | 0.008079 |
| 26 | 0.004024 | 0.001392 | 0.004565 | 0.004565 | 0.007620 | 0.000609 | 0.004188 | 0.012591 | 0.001003 | 0.001073 | 0.032556 | 0.005785 | 0.006273 |
| 27 | 0.001288 | 0.001082 | 0.002881 | 0.002881 | 0.006533 | 0.000084 | 0.004770 | 0.009602 | 0.000740 | 0.000713 | 0.019139 | 0.003739 | 0.003870 |
| 28 | 0.001449 | 0.000981 | 0.002199 | 0.002199 | 0.003915 | 0.000120 | 0.004184 | 0.007503 | 0.000677 | 0.000730 | 0.018470 | 0.002912 | 0.003640 |
| 29 | 0.002414 | 0.000800 | 0.002002 | 0.002002 | 0.003315 | 0.000091 | 0.005102 | 0.009226 | 0.000533 | 0.000653 | 0.012139 | 0.002335 | 0.003493 |
| 30 | 0.022855 | 0.007123 | 0.010631 | 0.010631 | 0.017635 | 0.000219 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Galveston County 2023 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.059392 | 0.059266 | 0.050818 | 0.050818 | 0.055916 | 0.055916 | 0.055916 | 0.058180 | 0.107326 | 0.108951 | 0.058180 | 0.054796 | 0.068825 |
| 1 | 0.068727 | 0.085363 | 0.072307 | 0.072307 | 0.056272 | 0.056177 | 0.056259 | 0.058179 | 0.098838 | 0.103650 | 0.058578 | 0.056698 | 0.059543 |
| 2 | 0.061323 | 0.090480 | 0.063375 | 0.063375 | 0.053703 | 0.053595 | 0.053754 | 0.056574 | 0.113632 | 0.111268 | 0.057461 | 0.044354 | 0.047903 |
| 3 | 0.059231 | 0.081649 | 0.057840 | 0.057840 | 0.055079 | 0.054952 | 0.055275 | 0.057472 | 0.089706 | 0.085755 | 0.058467 | 0.053668 | 0.060675 |
| 4 | 0.056333 | 0.088141 | 0.058295 | 0.058295 | 0.057299 | 0.057046 | 0.057596 | 0.058908 | 0.101333 | 0.102451 | 0.060375 | 0.064806 | 0.071965 |
| 5 | 0.053275 | 0.073997 | 0.061828 | 0.061828 | 0.053587 | 0.052974 | 0.053667 | 0.055701 | 0.056427 | 0.056032 | 0.058115 | 0.056252 | 0.057263 |
| 6 | 0.050056 | 0.068880 | 0.054079 | 0.054079 | 0.072106 | 0.081694 | 0.076767 | 0.028881 | 0.053431 | 0.050813 | 0.016156 | 0.057525 | 0.058116 |
| 7 | 0.039433 | 0.055310 | 0.041552 | 0.041552 | 0.067500 | 0.078131 | 0.068119 | 0.029440 | 0.069221 | 0.071436 | 0.016327 | 0.063625 | 0.060032 |
| 8 | 0.028811 | 0.045595 | 0.041082 | 0.041082 | 0.057694 | 0.063477 | 0.064077 | 0.034826 | 0.048059 | 0.048826 | 0.016279 | 0.032744 | 0.030871 |
| 9 | 0.027523 | 0.038449 | 0.036639 | 0.036639 | 0.052840 | 0.062167 | 0.059003 | 0.030340 | 0.017683 | 0.017043 | 0.014941 | 0.021855 | 0.019997 |
| 10 | 0.052953 | 0.032268 | 0.028753 | 0.028753 | 0.032885 | 0.045715 | 0.032079 | 0.026323 | 0.017940 | 0.016190 | 0.018033 | 0.028546 | 0.027428 |
| 11 | 0.051666 | 0.043966 | 0.048301 | 0.048301 | 0.027950 | 0.047838 | 0.031525 | 0.025805 | 0.044072 | 0.041381 | 0.009215 | 0.026198 | 0.024805 |
| 12 | 0.060357 | 0.042011 | 0.046799 | 0.046799 | 0.024205 | 0.037017 | 0.031373 | 0.018806 | 0.028590 | 0.027061 | 0.017221 | 0.087920 | 0.078722 |
| 13 | 0.053114 | 0.034009 | 0.042341 | 0.042341 | 0.025189 | 0.045712 | 0.027598 | 0.013446 | 0.030257 | 0.030204 | 0.002852 | 0.056383 | 0.050902 |
| 14 | 0.047964 | 0.029856 | 0.035259 | 0.035259 | 0.027435 | 0.042348 | 0.033477 | 0.024021 | 0.023951 | 0.025697 | 0.004971 | 0.048250 | 0.043087 |
| 15 | 0.034444 | 0.025043 | 0.039141 | 0.039141 | 0.026908 | 0.037037 | 0.032845 | 0.019936 | 0.018410 | 0.019228 | 0.018594 | 0.028953 | 0.024421 |
| 16 | 0.038468 | 0.021730 | 0.036320 | 0.036320 | 0.026714 | 0.024469 | 0.027413 | 0.055915 | 0.014718 | 0.015792 | 0.031004 | 0.022498 | 0.021618 |
| 17 | 0.033639 | 0.018405 | 0.036472 | 0.036472 | 0.032058 | 0.020412 | 0.025303 | 0.044760 | 0.013232 | 0.013489 | 0.041292 | 0.018760 | 0.016864 |
| 18 | 0.021407 | 0.014511 | 0.033378 | 0.033378 | 0.018731 | 0.014509 | 0.021163 | 0.037012 | 0.013138 | 0.013534 | 0.031647 | 0.025502 | 0.023545 |
| 19 | 0.020924 | 0.012172 | 0.024158 | 0.024158 | 0.017689 | 0.014544 | 0.022359 | 0.030639 | 0.010719 | 0.009828 | 0.048417 | 0.035354 | 0.032228 |
| 20 | 0.013842 | 0.008949 | 0.019684 | 0.019684 | 0.022068 | 0.014159 | 0.015781 | 0.032824 | 0.009528 | 0.009369 | 0.035754 | 0.027142 | 0.024374 |
| 21 | 0.011106 | 0.006593 | 0.013285 | 0.013285 | 0.019618 | 0.012516 | 0.017856 | 0.028859 | 0.003893 | 0.004506 | 0.033019 | 0.020163 | 0.018389 |
| 22 | 0.006921 | 0.004694 | 0.012799 | 0.012799 | 0.021770 | 0.011016 | 0.019305 | 0.030050 | 0.004563 | 0.004678 | 0.021400 | 0.013407 | 0.012671 |
| 23 | 0.009013 | 0.002880 | 0.008872 | 0.008872 | 0.024396 | 0.007096 | 0.016162 | 0.035423 | 0.002344 | 0.002323 | 0.039074 | 0.012108 | 0.012375 |
| 24 | 0.005150 | 0.002463 | 0.007507 | 0.007507 | 0.013900 | 0.004343 | 0.008313 | 0.028262 | 0.002225 | 0.002388 | 0.059603 | 0.012069 | 0.011774 |
| 25 | 0.002897 | 0.001944 | 0.006839 | 0.006839 | 0.010880 | 0.002220 | 0.007530 | 0.017378 | 0.001247 | 0.001414 | 0.026560 | 0.007491 | 0.008079 |
| 26 | 0.004024 | 0.001392 | 0.004565 | 0.004565 | 0.009369 | 0.000923 | 0.006234 | 0.011017 | 0.001003 | 0.001073 | 0.043513 | 0.005785 | 0.006273 |
| 27 | 0.001288 | 0.001082 | 0.002881 | 0.002881 | 0.006966 | 0.001173 | 0.005145 | 0.013629 | 0.000740 | 0.000713 | 0.022466 | 0.003739 | 0.003870 |
| 28 | 0.001449 | 0.000981 | 0.002199 | 0.002199 | 0.006734 | 0.000201 | 0.005435 | 0.014955 | 0.000677 | 0.000730 | 0.024344 | 0.002912 | 0.003640 |
| 29 | 0.002414 | 0.000800 | 0.002002 | 0.002002 | 0.004904 | 0.000344 | 0.002609 | 0.009023 | 0.000533 | 0.000653 | 0.025065 | 0.002335 | 0.003493 |
| 30 | 0.022855 | 0.007123 | 0.010631 | 0.010631 | 0.017635 | 0.000280 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Galveston County 2026 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.059392 | 0.059266 | 0.050818 | 0.050818 | 0.053311 | 0.053311 | 0.053311 | 0.055878 | 0.107326 | 0.108951 | 0.055878 | 0.054796 | 0.068825 |
| 1 | 0.068727 | 0.085363 | 0.072307 | 0.072307 | 0.053213 | 0.053082 | 0.053192 | 0.055727 | 0.098838 | 0.103650 | 0.056089 | 0.056698 | 0.059543 |
| 2 | 0.061323 | 0.090480 | 0.063375 | 0.063375 | 0.053415 | 0.053131 | 0.053387 | 0.055943 | 0.113632 | 0.111268 | 0.056737 | 0.044354 | 0.047903 |
| 3 | 0.059231 | 0.081649 | 0.057840 | 0.057840 | 0.054397 | 0.054004 | 0.054308 | 0.056503 | 0.089706 | 0.085755 | 0.058147 | 0.053668 | 0.060675 |
| 4 | 0.056333 | 0.088141 | 0.058295 | 0.058295 | 0.054744 | 0.054257 | 0.054641 | 0.056502 | 0.101333 | 0.102451 | 0.058545 | 0.064806 | 0.071965 |
| 5 | 0.053275 | 0.073997 | 0.061828 | 0.061828 | 0.051675 | 0.051124 | 0.051612 | 0.054469 | 0.056427 | 0.056032 | 0.056986 | 0.056252 | 0.057263 |
| 6 | 0.050056 | 0.068880 | 0.054079 | 0.054079 | 0.051827 | 0.051090 | 0.051839 | 0.054374 | 0.053431 | 0.050813 | 0.057096 | 0.057525 | 0.058116 |
| 7 | 0.039433 | 0.055310 | 0.041552 | 0.041552 | 0.052672 | 0.051595 | 0.052695 | 0.054749 | 0.069221 | 0.071436 | 0.058059 | 0.063625 | 0.060032 |
| 8 | 0.028811 | 0.045595 | 0.041082 | 0.041082 | 0.048125 | 0.046622 | 0.047904 | 0.050848 | 0.048059 | 0.048826 | 0.055022 | 0.032744 | 0.030871 |
| 9 | 0.027523 | 0.038449 | 0.036639 | 0.036639 | 0.064014 | 0.070939 | 0.067696 | 0.026131 | 0.017683 | 0.017043 | 0.015178 | 0.021855 | 0.019997 |
| 10 | 0.052953 | 0.032268 | 0.028753 | 0.028753 | 0.059196 | 0.066851 | 0.059289 | 0.026395 | 0.017940 | 0.016190 | 0.015220 | 0.028546 | 0.027428 |
| 11 | 0.051666 | 0.043966 | 0.048301 | 0.048301 | 0.050025 | 0.053616 | 0.055111 | 0.030946 | 0.044072 | 0.041381 | 0.015055 | 0.026198 | 0.024805 |
| 12 | 0.060357 | 0.042011 | 0.046799 | 0.046799 | 0.045285 | 0.051800 | 0.050126 | 0.026719 | 0.028590 | 0.027061 | 0.013710 | 0.087920 | 0.078722 |
| 13 | 0.053114 | 0.034009 | 0.042341 | 0.042341 | 0.027519 | 0.037038 | 0.026572 | 0.022762 | 0.030257 | 0.030204 | 0.016287 | 0.056383 | 0.050902 |
| 14 | 0.047964 | 0.029856 | 0.035259 | 0.035259 | 0.023114 | 0.038227 | 0.025789 | 0.022114 | 0.023951 | 0.025697 | 0.008257 | 0.048250 | 0.043087 |
| 15 | 0.034444 | 0.025043 | 0.039141 | 0.039141 | 0.019768 | 0.029133 | 0.025323 | 0.015965 | 0.018410 | 0.019228 | 0.015311 | 0.028953 | 0.024421 |
| 16 | 0.038468 | 0.021730 | 0.036320 | 0.036320 | 0.020334 | 0.035504 | 0.022005 | 0.011312 | 0.014718 | 0.015792 | 0.002516 | 0.022498 | 0.021618 |
| 17 | 0.033639 | 0.018405 | 0.036472 | 0.036472 | 0.021884 | 0.032433 | 0.026359 | 0.020025 | 0.013232 | 0.013489 | 0.004349 | 0.018760 | 0.016864 |
| 18 | 0.021407 | 0.014511 | 0.033378 | 0.033378 | 0.020946 | 0.027559 | 0.025198 | 0.016314 | 0.013138 | 0.013534 | 0.016009 | 0.025502 | 0.023545 |
| 19 | 0.020924 | 0.012172 | 0.024158 | 0.024158 | 0.020545 | 0.017950 | 0.020764 | 0.045336 | 0.010719 | 0.009828 | 0.026480 | 0.035354 | 0.032228 |
| 20 | 0.013842 | 0.008949 | 0.019684 | 0.019684 | 0.024052 | 0.014542 | 0.018668 | 0.035616 | 0.009528 | 0.009369 | 0.034700 | 0.027142 | 0.024374 |
| 21 | 0.011106 | 0.006593 | 0.013285 | 0.013285 | 0.013883 | 0.010189 | 0.015413 | 0.029179 | 0.003893 | 0.004506 | 0.026380 | 0.020163 | 0.018389 |
| 22 | 0.006921 | 0.004694 | 0.012799 | 0.012799 | 0.012940 | 0.010052 | 0.016058 | 0.023923 | 0.004563 | 0.004678 | 0.040035 | 0.013407 | 0.012671 |
| 23 | 0.009013 | 0.002880 | 0.008872 | 0.008872 | 0.015951 | 0.009652 | 0.011191 | 0.025391 | 0.002344 | 0.002323 | 0.029321 | 0.012108 | 0.012375 |
| 24 | 0.005150 | 0.002463 | 0.007507 | 0.007507 | 0.014005 | 0.008408 | 0.012497 | 0.022116 | 0.002225 | 0.002388 | 0.026858 | 0.012069 | 0.011774 |
| 25 | 0.002897 | 0.001944 | 0.006839 | 0.006839 | 0.015337 | 0.007281 | 0.013322 | 0.022806 | 0.001247 | 0.001414 | 0.017266 | 0.007491 | 0.008079 |
| 26 | 0.004024 | 0.001392 | 0.004565 | 0.004565 | 0.016979 | 0.004626 | 0.011010 | 0.026631 | 0.001003 | 0.001073 | 0.031264 | 0.005785 | 0.006273 |
| 27 | 0.001288 | 0.001082 | 0.002881 | 0.002881 | 0.009554 | 0.002789 | 0.005589 | 0.021048 | 0.000740 | 0.000713 | 0.047300 | 0.003739 | 0.003870 |
| 28 | 0.001449 | 0.000981 | 0.002199 | 0.002199 | 0.007379 | 0.001402 | 0.004990 | 0.012815 | 0.000677 | 0.000730 | 0.020905 | 0.002912 | 0.003640 |
| 29 | 0.002414 | 0.000800 | 0.002002 | 0.002002 | 0.006276 | 0.000575 | 0.004078 | 0.008047 | 0.000533 | 0.000653 | 0.033963 | 0.002335 | 0.003493 |
| 30 | 0.022855 | 0.007123 | 0.010631 | 0.010631 | 0.017635 | 0.001218 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Galveston County 2027 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.059392 | 0.059266 | 0.050818 | 0.050818 | 0.052770 | 0.052770 | 0.052770 | 0.055385 | 0.107326 | 0.108951 | 0.055385 | 0.054796 | 0.068825 |
| 1 | 0.068727 | 0.085363 | 0.072307 | 0.072307 | 0.052814 | 0.052631 | 0.052756 | 0.055139 | 0.098838 | 0.103650 | 0.056488 | 0.056698 | 0.059543 |
| 2 | 0.061323 | 0.090480 | 0.063375 | 0.063375 | 0.052718 | 0.052406 | 0.052638 | 0.054991 | 0.113632 | 0.111268 | 0.056702 | 0.044354 | 0.047903 |
| 3 | 0.059231 | 0.081649 | 0.057840 | 0.057840 | 0.052918 | 0.052454 | 0.052831 | 0.055204 | 0.089706 | 0.085755 | 0.057356 | 0.053668 | 0.060675 |
| 4 | 0.056333 | 0.088141 | 0.058295 | 0.058295 | 0.053891 | 0.053316 | 0.053743 | 0.055756 | 0.101333 | 0.102451 | 0.058781 | 0.064806 | 0.071965 |
| 5 | 0.053275 | 0.073997 | 0.061828 | 0.061828 | 0.053660 | 0.052939 | 0.053478 | 0.055275 | 0.056427 | 0.056032 | 0.058720 | 0.056252 | 0.057263 |
| 6 | 0.050056 | 0.068880 | 0.054079 | 0.054079 | 0.050110 | 0.049293 | 0.049951 | 0.052822 | 0.053431 | 0.050813 | 0.056704 | 0.057525 | 0.058116 |
| 7 | 0.039433 | 0.055310 | 0.041552 | 0.041552 | 0.050257 | 0.049260 | 0.050171 | 0.052730 | 0.069221 | 0.071436 | 0.056813 | 0.063625 | 0.060032 |
| 8 | 0.028811 | 0.045595 | 0.041082 | 0.041082 | 0.050525 | 0.049151 | 0.050427 | 0.052628 | 0.048059 | 0.048826 | 0.057311 | 0.032744 | 0.030871 |
| 9 | 0.027523 | 0.038449 | 0.036639 | 0.036639 | 0.046163 | 0.044413 | 0.045842 | 0.048878 | 0.017683 | 0.017043 | 0.054314 | 0.021855 | 0.019997 |
| 10 | 0.052953 | 0.032268 | 0.028753 | 0.028753 | 0.061404 | 0.067579 | 0.064781 | 0.025119 | 0.017940 | 0.016190 | 0.014982 | 0.028546 | 0.027428 |
| 11 | 0.051666 | 0.043966 | 0.048301 | 0.048301 | 0.056161 | 0.062912 | 0.056092 | 0.025148 | 0.044072 | 0.041381 | 0.014903 | 0.026198 | 0.024805 |
| 12 | 0.060357 | 0.042011 | 0.046799 | 0.046799 | 0.047461 | 0.050457 | 0.052138 | 0.029484 | 0.028590 | 0.027061 | 0.014741 | 0.087920 | 0.078722 |
| 13 | 0.053114 | 0.034009 | 0.042341 | 0.042341 | 0.042489 | 0.048150 | 0.046877 | 0.025230 | 0.030257 | 0.030204 | 0.013316 | 0.056383 | 0.050902 |
| 14 | 0.047964 | 0.029856 | 0.035259 | 0.035259 | 0.025820 | 0.034428 | 0.024850 | 0.021493 | 0.023951 | 0.025697 | 0.015819 | 0.048250 | 0.043087 |
| 15 | 0.034444 | 0.025043 | 0.039141 | 0.039141 | 0.021687 | 0.035534 | 0.024118 | 0.020881 | 0.018410 | 0.019228 | 0.008020 | 0.028953 | 0.024421 |
| 16 | 0.038468 | 0.021730 | 0.036320 | 0.036320 | 0.018340 | 0.026744 | 0.023407 | 0.014939 | 0.014718 | 0.015792 | 0.014749 | 0.022498 | 0.021618 |
| 17 | 0.033639 | 0.018405 | 0.036472 | 0.036472 | 0.018865 | 0.032592 | 0.020340 | 0.010585 | 0.013232 | 0.013489 | 0.002423 | 0.018760 | 0.016864 |
| 18 | 0.021407 | 0.014511 | 0.033378 | 0.033378 | 0.020074 | 0.029399 | 0.024077 | 0.018568 | 0.013138 | 0.013534 | 0.004155 | 0.025502 | 0.023545 |
| 19 | 0.020924 | 0.012172 | 0.024158 | 0.024158 | 0.019213 | 0.024981 | 0.023017 | 0.015126 | 0.010719 | 0.009828 | 0.015295 | 0.035354 | 0.032228 |
| 20 | 0.013842 | 0.008949 | 0.019684 | 0.019684 | 0.018630 | 0.016064 | 0.018740 | 0.041651 | 0.009528 | 0.009369 | 0.025089 | 0.027142 | 0.024374 |
| 21 | 0.011106 | 0.006593 | 0.013285 | 0.013285 | 0.021810 | 0.013014 | 0.016849 | 0.032722 | 0.003893 | 0.004506 | 0.032878 | 0.020163 | 0.018389 |
| 22 | 0.006921 | 0.004694 | 0.012799 | 0.012799 | 0.012589 | 0.009118 | 0.013911 | 0.026807 | 0.004563 | 0.004678 | 0.024995 | 0.013407 | 0.012671 |
| 23 | 0.009013 | 0.002880 | 0.008872 | 0.008872 | 0.011598 | 0.008880 | 0.014318 | 0.021775 | 0.002344 | 0.002323 | 0.037614 | 0.012108 | 0.012375 |
| 24 | 0.005150 | 0.002463 | 0.007507 | 0.007507 | 0.014297 | 0.008526 | 0.009979 | 0.023111 | 0.002225 | 0.002388 | 0.027548 | 0.012069 | 0.011774 |
| 25 | 0.002897 | 0.001944 | 0.006839 | 0.006839 | 0.012553 | 0.007427 | 0.011144 | 0.020130 | 0.001247 | 0.001414 | 0.025235 | 0.007491 | 0.008079 |
| 26 | 0.004024 | 0.001392 | 0.004565 | 0.004565 | 0.013586 | 0.006348 | 0.011734 | 0.020564 | 0.001003 | 0.001073 | 0.016085 | 0.005785 | 0.006273 |
| 27 | 0.001288 | 0.001082 | 0.002881 | 0.002881 | 0.015041 | 0.004033 | 0.009698 | 0.024014 | 0.000740 | 0.000713 | 0.029126 | 0.003739 | 0.003870 |
| 28 | 0.001449 | 0.000981 | 0.002199 | 0.002199 | 0.008463 | 0.002432 | 0.004923 | 0.018979 | 0.000677 | 0.000730 | 0.044065 | 0.002912 | 0.003640 |
| 29 | 0.002414 | 0.000800 | 0.002002 | 0.002002 | 0.006459 | 0.001206 | 0.004341 | 0.011447 | 0.000533 | 0.000653 | 0.019310 | 0.002335 | 0.003493 |
| 30 | 0.022855 | 0.007123 | 0.010631 | 0.010631 | 0.017635 | 0.001542 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Harris County 2011 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067022 | 0.060996 | 0.050704 | 0.050704 | 0.036180 | 0.074697 | 0.043899 | 0.020412 | 0.107326 | 0.108951 | 0.017572 | 0.054796 | 0.068825 |
| 1 | 0.073186 | 0.079200 | 0.064064 | 0.064064 | 0.039841 | 0.101513 | 0.042214 | 0.015110 | 0.098838 | 0.103650 | 0.002979 | 0.056698 | 0.059543 |
| 2 | 0.061329 | 0.076245 | 0.050862 | 0.050862 | 0.046623 | 0.104812 | 0.055843 | 0.028331 | 0.113632 | 0.111268 | 0.005313 | 0.044354 | 0.047903 |
| 3 | 0.063540 | 0.075379 | 0.048647 | 0.048647 | 0.049281 | 0.102921 | 0.059585 | 0.025227 | 0.089706 | 0.085755 | 0.020619 | 0.053668 | 0.060675 |
| 4 | 0.062075 | 0.083557 | 0.051486 | 0.051486 | 0.052966 | 0.076456 | 0.054774 | 0.076490 | 0.101333 | 0.102451 | 0.035762 | 0.064806 | 0.071965 |
| 5 | 0.057100 | 0.072572 | 0.055214 | 0.055214 | 0.068397 | 0.072053 | 0.055227 | 0.064970 | 0.056427 | 0.056032 | 0.048854 | 0.056252 | 0.057263 |
| 6 | 0.053341 | 0.068192 | 0.046605 | 0.046605 | 0.042648 | 0.057371 | 0.050452 | 0.056933 | 0.053431 | 0.050813 | 0.038874 | 0.057525 | 0.058116 |
| 7 | 0.045852 | 0.057464 | 0.040483 | 0.040483 | 0.042736 | 0.064267 | 0.058689 | 0.049088 | 0.069221 | 0.071436 | 0.060535 | 0.063625 | 0.060032 |
| 8 | 0.030844 | 0.047021 | 0.041143 | 0.041143 | 0.057372 | 0.070033 | 0.045203 | 0.055546 | 0.048059 | 0.048826 | 0.046135 | 0.032744 | 0.030871 |
| 9 | 0.025565 | 0.041397 | 0.034951 | 0.034951 | 0.054751 | 0.068493 | 0.055453 | 0.052116 | 0.017683 | 0.017043 | 0.044240 | 0.021855 | 0.019997 |
| 10 | 0.053784 | 0.035266 | 0.029555 | 0.029555 | 0.065557 | 0.068653 | 0.065744 | 0.057687 | 0.017940 | 0.016190 | 0.029414 | 0.028546 | 0.027428 |
| 11 | 0.051103 | 0.047958 | 0.053325 | 0.053325 | 0.078557 | 0.049889 | 0.060342 | 0.072218 | 0.044072 | 0.041381 | 0.055786 | 0.026198 | 0.024805 |
| 12 | 0.062324 | 0.046919 | 0.054891 | 0.054891 | 0.047578 | 0.034391 | 0.034339 | 0.060105 | 0.028590 | 0.027061 | 0.086656 | 0.087920 | 0.078722 |
| 13 | 0.054502 | 0.037948 | 0.047402 | 0.047402 | 0.039627 | 0.019471 | 0.033557 | 0.038712 | 0.030257 | 0.030204 | 0.039532 | 0.056383 | 0.050902 |
| 14 | 0.041181 | 0.032786 | 0.041876 | 0.041876 | 0.036599 | 0.009178 | 0.030650 | 0.026002 | 0.023951 | 0.025697 | 0.066825 | 0.048250 | 0.043087 |
| 15 | 0.030181 | 0.027263 | 0.043250 | 0.043250 | 0.029292 | 0.013218 | 0.027866 | 0.034289 | 0.018410 | 0.019228 | 0.035417 | 0.028953 | 0.024421 |
| 16 | 0.037505 | 0.023986 | 0.040752 | 0.040752 | 0.030064 | 0.002472 | 0.031547 | 0.039908 | 0.014718 | 0.015792 | 0.039586 | 0.022498 | 0.021618 |
| 17 | 0.029545 | 0.019987 | 0.040158 | 0.040158 | 0.023718 | 0.004862 | 0.016693 | 0.025686 | 0.013232 | 0.013489 | 0.041853 | 0.018760 | 0.016864 |
| 18 | 0.019955 | 0.015696 | 0.036866 | 0.036866 | 0.021178 | 0.000730 | 0.020301 | 0.020470 | 0.013138 | 0.013534 | 0.025183 | 0.025502 | 0.023545 |
| 19 | 0.014510 | 0.013126 | 0.028642 | 0.028642 | 0.013178 | 0.001112 | 0.018896 | 0.016540 | 0.010719 | 0.009828 | 0.024551 | 0.035354 | 0.032228 |
| 20 | 0.011663 | 0.009768 | 0.021304 | 0.021304 | 0.011799 | 0.000936 | 0.024538 | 0.021137 | 0.009528 | 0.009369 | 0.016394 | 0.027142 | 0.024374 |
| 21 | 0.008015 | 0.006721 | 0.014751 | 0.014751 | 0.017000 | 0.001181 | 0.026242 | 0.024395 | 0.003893 | 0.004506 | 0.025289 | 0.020163 | 0.018389 |
| 22 | 0.006357 | 0.004944 | 0.014138 | 0.014138 | 0.021289 | 0.000616 | 0.013673 | 0.017998 | 0.004563 | 0.004678 | 0.031470 | 0.013407 | 0.012671 |
| 23 | 0.006191 | 0.003024 | 0.009339 | 0.009339 | 0.013982 | 0.000249 | 0.014528 | 0.019271 | 0.002344 | 0.002323 | 0.028159 | 0.012108 | 0.012375 |
| 24 | 0.004201 | 0.002288 | 0.008224 | 0.008224 | 0.009457 | 0.000070 | 0.013551 | 0.017751 | 0.002225 | 0.002388 | 0.025783 | 0.012069 | 0.011774 |
| 25 | 0.003814 | 0.001584 | 0.006870 | 0.006870 | 0.007992 | 0.000024 | 0.010508 | 0.012854 | 0.001247 | 0.001414 | 0.015597 | 0.007491 | 0.008079 |
| 26 | 0.002487 | 0.001192 | 0.004385 | 0.004385 | 0.008237 | 0.000050 | 0.007903 | 0.012188 | 0.001003 | 0.001073 | 0.016256 | 0.005785 | 0.006273 |
| 27 | 0.002073 | 0.000922 | 0.003318 | 0.003318 | 0.006363 | 0.000037 | 0.006810 | 0.010137 | 0.000740 | 0.000713 | 0.015723 | 0.003739 | 0.003870 |
| 28 | 0.001106 | 0.000832 | 0.002499 | 0.002499 | 0.005349 | 0.000027 | 0.005974 | 0.008018 | 0.000677 | 0.000730 | 0.014339 | 0.002912 | 0.003640 |
| 29 | 0.001492 | 0.000640 | 0.002173 | 0.002173 | 0.004757 | 0.000020 | 0.004936 | 0.006995 | 0.000533 | 0.000653 | 0.014229 | 0.002335 | 0.003493 |
| 30 | 0.018158 | 0.005128 | 0.012123 | 0.012123 | 0.017635 | 0.000198 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Harris County 2017 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067022 | 0.060996 | 0.050704 | 0.050704 | 0.078824 | 0.091142 | 0.083978 | 0.031614 | 0.107326 | 0.108951 | 0.016664 | 0.054796 | 0.068825 |
| 1 | 0.073186 | 0.079200 | 0.064064 | 0.064064 | 0.075667 | 0.090093 | 0.076580 | 0.032820 | 0.098838 | 0.103650 | 0.017093 | 0.056698 | 0.059543 |
| 2 | 0.061329 | 0.076245 | 0.050862 | 0.050862 | 0.067199 | 0.077034 | 0.075099 | 0.039904 | 0.113632 | 0.111268 | 0.017428 | 0.044354 | 0.047903 |
| 3 | 0.063540 | 0.075379 | 0.048647 | 0.048647 | 0.063959 | 0.079629 | 0.072132 | 0.035734 | 0.089706 | 0.085755 | 0.016351 | 0.053668 | 0.060675 |
| 4 | 0.062075 | 0.083557 | 0.051486 | 0.051486 | 0.041394 | 0.062045 | 0.040955 | 0.031878 | 0.101333 | 0.102451 | 0.020170 | 0.064806 | 0.071965 |
| 5 | 0.057100 | 0.072572 | 0.055214 | 0.055214 | 0.036596 | 0.068674 | 0.042028 | 0.032138 | 0.056427 | 0.056032 | 0.010539 | 0.056252 | 0.057263 |
| 6 | 0.053341 | 0.068192 | 0.046605 | 0.046605 | 0.032532 | 0.055132 | 0.043047 | 0.023869 | 0.053431 | 0.050813 | 0.019997 | 0.057525 | 0.058116 |
| 7 | 0.045852 | 0.057464 | 0.040483 | 0.040483 | 0.035230 | 0.072004 | 0.039560 | 0.017559 | 0.069221 | 0.071436 | 0.003389 | 0.063625 | 0.060032 |
| 8 | 0.030844 | 0.047021 | 0.041143 | 0.041143 | 0.039392 | 0.069145 | 0.049382 | 0.031958 | 0.048059 | 0.048826 | 0.005994 | 0.032744 | 0.030871 |
| 9 | 0.025565 | 0.041397 | 0.034951 | 0.034951 | 0.039680 | 0.062851 | 0.049899 | 0.027028 | 0.017683 | 0.017043 | 0.022758 | 0.021855 | 0.019997 |
| 10 | 0.053784 | 0.035266 | 0.029555 | 0.029555 | 0.041020 | 0.044016 | 0.043545 | 0.078002 | 0.017940 | 0.016190 | 0.038819 | 0.028546 | 0.027428 |
| 11 | 0.051103 | 0.047958 | 0.053325 | 0.053325 | 0.050566 | 0.038149 | 0.041402 | 0.063658 | 0.044072 | 0.041381 | 0.052497 | 0.026198 | 0.024805 |
| 12 | 0.062324 | 0.046919 | 0.054891 | 0.054891 | 0.030779 | 0.028742 | 0.036224 | 0.054189 | 0.028590 | 0.027061 | 0.041177 | 0.087920 | 0.078722 |
| 13 | 0.054502 | 0.037948 | 0.047402 | 0.047402 | 0.029860 | 0.029906 | 0.039417 | 0.045716 | 0.030257 | 0.030204 | 0.063961 | 0.056383 | 0.050902 |
| 14 | 0.041181 | 0.032786 | 0.041876 | 0.041876 | 0.038819 | 0.030838 | 0.029111 | 0.050432 | 0.023951 | 0.025697 | 0.048354 | 0.048250 | 0.043087 |
| 15 | 0.030181 | 0.027263 | 0.043250 | 0.043250 | 0.035967 | 0.028980 | 0.034482 | 0.045640 | 0.018410 | 0.019228 | 0.045680 | 0.028953 | 0.024421 |
| 16 | 0.037505 | 0.023986 | 0.040752 | 0.040752 | 0.041037 | 0.026572 | 0.038448 | 0.048454 | 0.014718 | 0.015792 | 0.030061 | 0.022498 | 0.021618 |
| 17 | 0.029545 | 0.019987 | 0.040158 | 0.040158 | 0.047968 | 0.018212 | 0.033726 | 0.058821 | 0.013232 | 0.013489 | 0.056177 | 0.018760 | 0.016864 |
| 18 | 0.019955 | 0.015696 | 0.036866 | 0.036866 | 0.028106 | 0.011607 | 0.017894 | 0.047873 | 0.013138 | 0.013534 | 0.087043 | 0.025502 | 0.023545 |
| 19 | 0.014510 | 0.013126 | 0.028642 | 0.028642 | 0.022635 | 0.006198 | 0.016732 | 0.030019 | 0.010719 | 0.009828 | 0.039384 | 0.035354 | 0.032228 |
| 20 | 0.011663 | 0.009768 | 0.021304 | 0.021304 | 0.020051 | 0.002680 | 0.014288 | 0.019410 | 0.009528 | 0.009369 | 0.065558 | 0.027142 | 0.024374 |
| 21 | 0.008015 | 0.006721 | 0.014751 | 0.014751 | 0.015338 | 0.003551 | 0.012169 | 0.024501 | 0.003893 | 0.004506 | 0.034386 | 0.020163 | 0.018389 |
| 22 | 0.006357 | 0.004944 | 0.014138 | 0.014138 | 0.015262 | 0.000636 | 0.013276 | 0.027421 | 0.004563 | 0.004678 | 0.037837 | 0.013407 | 0.012671 |
| 23 | 0.006191 | 0.003024 | 0.009339 | 0.009339 | 0.011438 | 0.001134 | 0.006577 | 0.016877 | 0.002344 | 0.002323 | 0.039588 | 0.012108 | 0.012375 |
| 24 | 0.004201 | 0.002288 | 0.008224 | 0.008224 | 0.009950 | 0.000160 | 0.007616 | 0.013002 | 0.002225 | 0.002388 | 0.023454 | 0.012069 | 0.011774 |
| 25 | 0.003814 | 0.001584 | 0.006870 | 0.006870 | 0.006052 | 0.000234 | 0.006794 | 0.010264 | 0.001247 | 0.001414 | 0.022808 | 0.007491 | 0.008079 |
| 26 | 0.002487 | 0.001192 | 0.004385 | 0.004385 | 0.005200 | 0.000182 | 0.008420 | 0.012742 | 0.001003 | 0.001073 | 0.015103 | 0.005785 | 0.006273 |
| 27 | 0.002073 | 0.000922 | 0.003318 | 0.003318 | 0.007295 | 0.000215 | 0.008562 | 0.014199 | 0.000740 | 0.000713 | 0.022934 | 0.003739 | 0.003870 |
| 28 | 0.001106 | 0.000832 | 0.002499 | 0.002499 | 0.008928 | 0.000108 | 0.004271 | 0.010231 | 0.000677 | 0.000730 | 0.028466 | 0.002912 | 0.003640 |
| 29 | 0.001492 | 0.000640 | 0.002173 | 0.002173 | 0.005620 | 0.000040 | 0.004325 | 0.010633 | 0.000533 | 0.000653 | 0.025257 | 0.002335 | 0.003493 |
| 30 | 0.018158 | 0.005128 | 0.012123 | 0.012123 | 0.017635 | 0.000091 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Harris County 2018 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067022 | 0.060996 | 0.050704 | 0.050704 | 0.056764 | 0.056764 | 0.056764 | 0.059441 | 0.107326 | 0.108951 | 0.059441 | 0.054796 | 0.068825 |
| 1 | 0.073186 | 0.079200 | 0.064064 | 0.064064 | 0.078327 | 0.090363 | 0.083431 | 0.031402 | 0.098838 | 0.103650 | 0.016783 | 0.056698 | 0.059543 |
| 2 | 0.061329 | 0.076245 | 0.050862 | 0.050862 | 0.075191 | 0.089323 | 0.076081 | 0.032600 | 0.113632 | 0.111268 | 0.017214 | 0.044354 | 0.047903 |
| 3 | 0.063540 | 0.075379 | 0.048647 | 0.048647 | 0.066776 | 0.076375 | 0.074609 | 0.039636 | 0.089706 | 0.085755 | 0.017551 | 0.053668 | 0.060675 |
| 4 | 0.062075 | 0.083557 | 0.051486 | 0.051486 | 0.063556 | 0.078948 | 0.071662 | 0.035495 | 0.101333 | 0.102451 | 0.016467 | 0.064806 | 0.071965 |
| 5 | 0.057100 | 0.072572 | 0.055214 | 0.055214 | 0.040595 | 0.060250 | 0.040093 | 0.031371 | 0.056427 | 0.056032 | 0.020168 | 0.056252 | 0.057263 |
| 6 | 0.053341 | 0.068192 | 0.046605 | 0.046605 | 0.035413 | 0.065287 | 0.040533 | 0.031332 | 0.053431 | 0.050813 | 0.010463 | 0.057525 | 0.058116 |
| 7 | 0.045852 | 0.057464 | 0.040483 | 0.040483 | 0.031480 | 0.052413 | 0.041516 | 0.023270 | 0.069221 | 0.071436 | 0.019852 | 0.063625 | 0.060032 |
| 8 | 0.030844 | 0.047021 | 0.041143 | 0.041143 | 0.033634 | 0.066986 | 0.037578 | 0.016956 | 0.048059 | 0.048826 | 0.003340 | 0.032744 | 0.030871 |
| 9 | 0.025565 | 0.041397 | 0.034951 | 0.034951 | 0.037606 | 0.064326 | 0.046908 | 0.030862 | 0.017683 | 0.017043 | 0.005908 | 0.021855 | 0.019997 |
| 10 | 0.053784 | 0.035266 | 0.029555 | 0.029555 | 0.037881 | 0.058471 | 0.047399 | 0.026101 | 0.017940 | 0.016190 | 0.022431 | 0.028546 | 0.027428 |
| 11 | 0.051103 | 0.047958 | 0.053325 | 0.053325 | 0.038627 | 0.040052 | 0.040731 | 0.074609 | 0.044072 | 0.041381 | 0.037983 | 0.026198 | 0.024805 |
| 12 | 0.062324 | 0.046919 | 0.054891 | 0.054891 | 0.047616 | 0.034712 | 0.038727 | 0.060889 | 0.028590 | 0.027061 | 0.051366 | 0.087920 | 0.078722 |
| 13 | 0.054502 | 0.037948 | 0.047402 | 0.047402 | 0.028583 | 0.025567 | 0.033357 | 0.051333 | 0.030257 | 0.030204 | 0.039996 | 0.056383 | 0.050902 |
| 14 | 0.041181 | 0.032786 | 0.041876 | 0.041876 | 0.027729 | 0.026602 | 0.036297 | 0.043307 | 0.023951 | 0.025697 | 0.062126 | 0.048250 | 0.043087 |
| 15 | 0.030181 | 0.027263 | 0.043250 | 0.043250 | 0.036049 | 0.027432 | 0.026806 | 0.047774 | 0.018410 | 0.019228 | 0.046967 | 0.028953 | 0.024421 |
| 16 | 0.037505 | 0.023986 | 0.040752 | 0.040752 | 0.032933 | 0.025188 | 0.031252 | 0.042815 | 0.014718 | 0.015792 | 0.044042 | 0.022498 | 0.021618 |
| 17 | 0.029545 | 0.019987 | 0.040158 | 0.040158 | 0.037575 | 0.023095 | 0.034847 | 0.045455 | 0.013232 | 0.013489 | 0.028983 | 0.018760 | 0.016864 |
| 18 | 0.019955 | 0.015696 | 0.036866 | 0.036866 | 0.043298 | 0.015458 | 0.030076 | 0.054639 | 0.013138 | 0.013534 | 0.053761 | 0.025502 | 0.023545 |
| 19 | 0.014510 | 0.013126 | 0.028642 | 0.028642 | 0.025369 | 0.009852 | 0.015958 | 0.044470 | 0.010719 | 0.009828 | 0.083300 | 0.035354 | 0.032228 |
| 20 | 0.011663 | 0.009768 | 0.021304 | 0.021304 | 0.020137 | 0.005134 | 0.014678 | 0.027609 | 0.009528 | 0.009369 | 0.037408 | 0.027142 | 0.024374 |
| 21 | 0.008015 | 0.006721 | 0.014751 | 0.014751 | 0.017838 | 0.002220 | 0.012535 | 0.017851 | 0.003893 | 0.004506 | 0.062269 | 0.020163 | 0.018389 |
| 22 | 0.006357 | 0.004944 | 0.014138 | 0.014138 | 0.013645 | 0.002941 | 0.010676 | 0.022533 | 0.004563 | 0.004678 | 0.032661 | 0.013407 | 0.012671 |
| 23 | 0.006191 | 0.003024 | 0.009339 | 0.009339 | 0.013379 | 0.000514 | 0.011454 | 0.024967 | 0.002344 | 0.002323 | 0.035668 | 0.012108 | 0.012375 |
| 24 | 0.004201 | 0.002288 | 0.008224 | 0.008224 | 0.010027 | 0.000916 | 0.005674 | 0.015367 | 0.002225 | 0.002388 | 0.037319 | 0.012069 | 0.011774 |
| 25 | 0.003814 | 0.001584 | 0.006870 | 0.006870 | 0.008723 | 0.000129 | 0.006571 | 0.011838 | 0.001247 | 0.001414 | 0.022110 | 0.007491 | 0.008079 |
| 26 | 0.002487 | 0.001192 | 0.004385 | 0.004385 | 0.005227 | 0.000184 | 0.005762 | 0.009251 | 0.001003 | 0.001073 | 0.021337 | 0.005785 | 0.006273 |
| 27 | 0.002073 | 0.000922 | 0.003318 | 0.003318 | 0.004490 | 0.000144 | 0.007142 | 0.011484 | 0.000740 | 0.000713 | 0.014129 | 0.003739 | 0.003870 |
| 28 | 0.001106 | 0.000832 | 0.002499 | 0.002499 | 0.006300 | 0.000169 | 0.007262 | 0.012798 | 0.000677 | 0.000730 | 0.021455 | 0.002912 | 0.003640 |
| 29 | 0.001492 | 0.000640 | 0.002173 | 0.002173 | 0.007594 | 0.000083 | 0.003561 | 0.009127 | 0.000533 | 0.000653 | 0.026427 | 0.002335 | 0.003493 |
| 30 | 0.018158 | 0.005128 | 0.012123 | 0.012123 | 0.017635 | 0.000101 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Harris County 2020 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067022 | 0.060996 | 0.050704 | 0.050704 | 0.056623 | 0.056623 | 0.056623 | 0.059505 | 0.107326 | 0.108951 | 0.059505 | 0.054796 | 0.068825 |
| 1 | 0.073186 | 0.079200 | 0.064064 | 0.064064 | 0.058906 | 0.058781 | 0.059000 | 0.060992 | 0.098838 | 0.103650 | 0.061446 | 0.056698 | 0.059543 |
| 2 | 0.061329 | 0.076245 | 0.050862 | 0.050862 | 0.055787 | 0.055441 | 0.055725 | 0.058218 | 0.113632 | 0.111268 | 0.059616 | 0.044354 | 0.047903 |
| 3 | 0.063540 | 0.075379 | 0.048647 | 0.048647 | 0.076979 | 0.088257 | 0.081903 | 0.030756 | 0.089706 | 0.085755 | 0.016832 | 0.053668 | 0.060675 |
| 4 | 0.062075 | 0.083557 | 0.051486 | 0.051486 | 0.073896 | 0.087241 | 0.074688 | 0.031930 | 0.101333 | 0.102451 | 0.017265 | 0.064806 | 0.071965 |
| 5 | 0.057100 | 0.072572 | 0.055214 | 0.055214 | 0.064800 | 0.073271 | 0.072235 | 0.038481 | 0.056427 | 0.056032 | 0.017480 | 0.056252 | 0.057263 |
| 6 | 0.053341 | 0.068192 | 0.046605 | 0.046605 | 0.060109 | 0.072950 | 0.067439 | 0.033841 | 0.053431 | 0.050813 | 0.016168 | 0.057525 | 0.058116 |
| 7 | 0.045852 | 0.057464 | 0.040483 | 0.040483 | 0.037895 | 0.054587 | 0.037185 | 0.029629 | 0.069221 | 0.071436 | 0.019658 | 0.063625 | 0.060032 |
| 8 | 0.030844 | 0.047021 | 0.041143 | 0.041143 | 0.032631 | 0.058063 | 0.037061 | 0.029329 | 0.048059 | 0.048826 | 0.010126 | 0.032744 | 0.030871 |
| 9 | 0.025565 | 0.041397 | 0.034951 | 0.034951 | 0.028626 | 0.045687 | 0.037403 | 0.021577 | 0.017683 | 0.017043 | 0.019072 | 0.021855 | 0.019997 |
| 10 | 0.053784 | 0.035266 | 0.029555 | 0.029555 | 0.030584 | 0.058389 | 0.033855 | 0.015723 | 0.017940 | 0.016190 | 0.003209 | 0.028546 | 0.027428 |
| 11 | 0.051103 | 0.047958 | 0.053325 | 0.053325 | 0.033749 | 0.055020 | 0.041655 | 0.028360 | 0.044072 | 0.041381 | 0.005636 | 0.026198 | 0.024805 |
| 12 | 0.062324 | 0.046919 | 0.054891 | 0.054891 | 0.033542 | 0.048997 | 0.041464 | 0.023756 | 0.028590 | 0.027061 | 0.021238 | 0.087920 | 0.078722 |
| 13 | 0.054502 | 0.037948 | 0.047402 | 0.047402 | 0.033749 | 0.032921 | 0.035112 | 0.067292 | 0.030257 | 0.030204 | 0.035704 | 0.056383 | 0.050902 |
| 14 | 0.041181 | 0.032786 | 0.041876 | 0.041876 | 0.041041 | 0.027942 | 0.032880 | 0.054391 | 0.023951 | 0.025697 | 0.047926 | 0.048250 | 0.043087 |
| 15 | 0.030181 | 0.027263 | 0.043250 | 0.043250 | 0.024637 | 0.020580 | 0.028321 | 0.045855 | 0.018410 | 0.019228 | 0.037318 | 0.028953 | 0.024421 |
| 16 | 0.037505 | 0.023986 | 0.040752 | 0.040752 | 0.023580 | 0.020997 | 0.030362 | 0.038331 | 0.014718 | 0.015792 | 0.057546 | 0.022498 | 0.021618 |
| 17 | 0.029545 | 0.019987 | 0.040158 | 0.040158 | 0.030235 | 0.021194 | 0.022079 | 0.041875 | 0.013232 | 0.013489 | 0.043179 | 0.018760 | 0.016864 |
| 18 | 0.019955 | 0.015696 | 0.036866 | 0.036866 | 0.027245 | 0.019074 | 0.025355 | 0.037181 | 0.013138 | 0.013534 | 0.040195 | 0.025502 | 0.023545 |
| 19 | 0.014510 | 0.013126 | 0.028642 | 0.028642 | 0.030654 | 0.017111 | 0.027831 | 0.039087 | 0.010719 | 0.009828 | 0.026252 | 0.035354 | 0.032228 |
| 20 | 0.011663 | 0.009768 | 0.021304 | 0.021304 | 0.034835 | 0.011221 | 0.023655 | 0.046548 | 0.009528 | 0.009369 | 0.048337 | 0.027142 | 0.024374 |
| 21 | 0.008015 | 0.006721 | 0.014751 | 0.014751 | 0.020123 | 0.006993 | 0.012353 | 0.037509 | 0.003893 | 0.004506 | 0.074328 | 0.020163 | 0.018389 |
| 22 | 0.006357 | 0.004944 | 0.014138 | 0.014138 | 0.015973 | 0.003645 | 0.011362 | 0.023287 | 0.004563 | 0.004678 | 0.033379 | 0.013407 | 0.012671 |
| 23 | 0.006191 | 0.003024 | 0.009339 | 0.009339 | 0.013951 | 0.001543 | 0.009553 | 0.014916 | 0.002344 | 0.002323 | 0.055151 | 0.012108 | 0.012375 |
| 24 | 0.004201 | 0.002288 | 0.008224 | 0.008224 | 0.010520 | 0.001999 | 0.008005 | 0.018640 | 0.002225 | 0.002388 | 0.028706 | 0.012069 | 0.011774 |
| 25 | 0.003814 | 0.001584 | 0.006870 | 0.006870 | 0.010315 | 0.000349 | 0.008588 | 0.020653 | 0.001247 | 0.001414 | 0.031349 | 0.007491 | 0.008079 |
| 26 | 0.002487 | 0.001192 | 0.004385 | 0.004385 | 0.007620 | 0.000609 | 0.004188 | 0.012591 | 0.001003 | 0.001073 | 0.032556 | 0.005785 | 0.006273 |
| 27 | 0.002073 | 0.000922 | 0.003318 | 0.003318 | 0.006533 | 0.000084 | 0.004770 | 0.009602 | 0.000740 | 0.000713 | 0.019139 | 0.003739 | 0.003870 |
| 28 | 0.001106 | 0.000832 | 0.002499 | 0.002499 | 0.003915 | 0.000120 | 0.004184 | 0.007503 | 0.000677 | 0.000730 | 0.018470 | 0.002912 | 0.003640 |
| 29 | 0.001492 | 0.000640 | 0.002173 | 0.002173 | 0.003315 | 0.000091 | 0.005102 | 0.009226 | 0.000533 | 0.000653 | 0.012139 | 0.002335 | 0.003493 |
| 30 | 0.018158 | 0.005128 | 0.012123 | 0.012123 | 0.017635 | 0.000219 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Harris County 2023 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067022 | 0.060996 | 0.050704 | 0.050704 | 0.055916 | 0.055916 | 0.055916 | 0.058180 | 0.107326 | 0.108951 | 0.058180 | 0.054796 | 0.068825 |
| 1 | 0.073186 | 0.079200 | 0.064064 | 0.064064 | 0.056272 | 0.056177 | 0.056259 | 0.058179 | 0.098838 | 0.103650 | 0.058578 | 0.056698 | 0.059543 |
| 2 | 0.061329 | 0.076245 | 0.050862 | 0.050862 | 0.053703 | 0.053595 | 0.053754 | 0.056574 | 0.113632 | 0.111268 | 0.057461 | 0.044354 | 0.047903 |
| 3 | 0.063540 | 0.075379 | 0.048647 | 0.048647 | 0.055079 | 0.054952 | 0.055275 | 0.057472 | 0.089706 | 0.085755 | 0.058467 | 0.053668 | 0.060675 |
| 4 | 0.062075 | 0.083557 | 0.051486 | 0.051486 | 0.057299 | 0.057046 | 0.057596 | 0.058908 | 0.101333 | 0.102451 | 0.060375 | 0.064806 | 0.071965 |
| 5 | 0.057100 | 0.072572 | 0.055214 | 0.055214 | 0.053587 | 0.052974 | 0.053667 | 0.055701 | 0.056427 | 0.056032 | 0.058115 | 0.056252 | 0.057263 |
| 6 | 0.053341 | 0.068192 | 0.046605 | 0.046605 | 0.072106 | 0.081694 | 0.076767 | 0.028881 | 0.053431 | 0.050813 | 0.016156 | 0.057525 | 0.058116 |
| 7 | 0.045852 | 0.057464 | 0.040483 | 0.040483 | 0.067500 | 0.078131 | 0.068119 | 0.029440 | 0.069221 | 0.071436 | 0.016327 | 0.063625 | 0.060032 |
| 8 | 0.030844 | 0.047021 | 0.041143 | 0.041143 | 0.057694 | 0.063477 | 0.064077 | 0.034826 | 0.048059 | 0.048826 | 0.016279 | 0.032744 | 0.030871 |
| 9 | 0.025565 | 0.041397 | 0.034951 | 0.034951 | 0.052840 | 0.062167 | 0.059003 | 0.030340 | 0.017683 | 0.017043 | 0.014941 | 0.021855 | 0.019997 |
| 10 | 0.053784 | 0.035266 | 0.029555 | 0.029555 | 0.032885 | 0.045715 | 0.032079 | 0.026323 | 0.017940 | 0.016190 | 0.018033 | 0.028546 | 0.027428 |
| 11 | 0.051103 | 0.047958 | 0.053325 | 0.053325 | 0.027950 | 0.047838 | 0.031525 | 0.025805 | 0.044072 | 0.041381 | 0.009215 | 0.026198 | 0.024805 |
| 12 | 0.062324 | 0.046919 | 0.054891 | 0.054891 | 0.024205 | 0.037017 | 0.031373 | 0.018806 | 0.028590 | 0.027061 | 0.017221 | 0.087920 | 0.078722 |
| 13 | 0.054502 | 0.037948 | 0.047402 | 0.047402 | 0.025189 | 0.045712 | 0.027598 | 0.013446 | 0.030257 | 0.030204 | 0.002852 | 0.056383 | 0.050902 |
| 14 | 0.041181 | 0.032786 | 0.041876 | 0.041876 | 0.027435 | 0.042348 | 0.033477 | 0.024021 | 0.023951 | 0.025697 | 0.004971 | 0.048250 | 0.043087 |
| 15 | 0.030181 | 0.027263 | 0.043250 | 0.043250 | 0.026908 | 0.037037 | 0.032845 | 0.019936 | 0.018410 | 0.019228 | 0.018594 | 0.028953 | 0.024421 |
| 16 | 0.037505 | 0.023986 | 0.040752 | 0.040752 | 0.026714 | 0.024469 | 0.027413 | 0.055915 | 0.014718 | 0.015792 | 0.031004 | 0.022498 | 0.021618 |
| 17 | 0.029545 | 0.019987 | 0.040158 | 0.040158 | 0.032058 | 0.020412 | 0.025303 | 0.044760 | 0.013232 | 0.013489 | 0.041292 | 0.018760 | 0.016864 |
| 18 | 0.019955 | 0.015696 | 0.036866 | 0.036866 | 0.018731 | 0.014509 | 0.021163 | 0.037012 | 0.013138 | 0.013534 | 0.031647 | 0.025502 | 0.023545 |
| 19 | 0.014510 | 0.013126 | 0.028642 | 0.028642 | 0.017689 | 0.014544 | 0.022359 | 0.030639 | 0.010719 | 0.009828 | 0.048417 | 0.035354 | 0.032228 |
| 20 | 0.011663 | 0.009768 | 0.021304 | 0.021304 | 0.022068 | 0.014159 | 0.015781 | 0.032824 | 0.009528 | 0.009369 | 0.035754 | 0.027142 | 0.024374 |
| 21 | 0.008015 | 0.006721 | 0.014751 | 0.014751 | 0.019618 | 0.012516 | 0.017856 | 0.028859 | 0.003893 | 0.004506 | 0.033019 | 0.020163 | 0.018389 |
| 22 | 0.006357 | 0.004944 | 0.014138 | 0.014138 | 0.021770 | 0.011016 | 0.019305 | 0.030050 | 0.004563 | 0.004678 | 0.021400 | 0.013407 | 0.012671 |
| 23 | 0.006191 | 0.003024 | 0.009339 | 0.009339 | 0.024396 | 0.007096 | 0.016162 | 0.035423 | 0.002344 | 0.002323 | 0.039074 | 0.012108 | 0.012375 |
| 24 | 0.004201 | 0.002288 | 0.008224 | 0.008224 | 0.013900 | 0.004343 | 0.008313 | 0.028262 | 0.002225 | 0.002388 | 0.059603 | 0.012069 | 0.011774 |
| 25 | 0.003814 | 0.001584 | 0.006870 | 0.006870 | 0.010880 | 0.002220 | 0.007530 | 0.017378 | 0.001247 | 0.001414 | 0.026560 | 0.007491 | 0.008079 |
| 26 | 0.002487 | 0.001192 | 0.004385 | 0.004385 | 0.009369 | 0.000923 | 0.006234 | 0.011017 | 0.001003 | 0.001073 | 0.043513 | 0.005785 | 0.006273 |
| 27 | 0.002073 | 0.000922 | 0.003318 | 0.003318 | 0.006966 | 0.001173 | 0.005145 | 0.013629 | 0.000740 | 0.000713 | 0.022466 | 0.003739 | 0.003870 |
| 28 | 0.001106 | 0.000832 | 0.002499 | 0.002499 | 0.006734 | 0.000201 | 0.005435 | 0.014955 | 0.000677 | 0.000730 | 0.024344 | 0.002912 | 0.003640 |
| 29 | 0.001492 | 0.000640 | 0.002173 | 0.002173 | 0.004904 | 0.000344 | 0.002609 | 0.009023 | 0.000533 | 0.000653 | 0.025065 | 0.002335 | 0.003493 |
| 30 | 0.018158 | 0.005128 | 0.012123 | 0.012123 | 0.017635 | 0.000280 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Harris County 2026 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067022 | 0.060996 | 0.050704 | 0.050704 | 0.053311 | 0.053311 | 0.053311 | 0.055878 | 0.107326 | 0.108951 | 0.055878 | 0.054796 | 0.068825 |
| 1 | 0.073186 | 0.079200 | 0.064064 | 0.064064 | 0.053213 | 0.053082 | 0.053192 | 0.055727 | 0.098838 | 0.103650 | 0.056089 | 0.056698 | 0.059543 |
| 2 | 0.061329 | 0.076245 | 0.050862 | 0.050862 | 0.053415 | 0.053131 | 0.053387 | 0.055943 | 0.113632 | 0.111268 | 0.056737 | 0.044354 | 0.047903 |
| 3 | 0.063540 | 0.075379 | 0.048647 | 0.048647 | 0.054397 | 0.054004 | 0.054308 | 0.056503 | 0.089706 | 0.085755 | 0.058147 | 0.053668 | 0.060675 |
| 4 | 0.062075 | 0.083557 | 0.051486 | 0.051486 | 0.054744 | 0.054257 | 0.054641 | 0.056502 | 0.101333 | 0.102451 | 0.058545 | 0.064806 | 0.071965 |
| 5 | 0.057100 | 0.072572 | 0.055214 | 0.055214 | 0.051675 | 0.051124 | 0.051612 | 0.054469 | 0.056427 | 0.056032 | 0.056986 | 0.056252 | 0.057263 |
| 6 | 0.053341 | 0.068192 | 0.046605 | 0.046605 | 0.051827 | 0.051090 | 0.051839 | 0.054374 | 0.053431 | 0.050813 | 0.057096 | 0.057525 | 0.058116 |
| 7 | 0.045852 | 0.057464 | 0.040483 | 0.040483 | 0.052672 | 0.051595 | 0.052695 | 0.054749 | 0.069221 | 0.071436 | 0.058059 | 0.063625 | 0.060032 |
| 8 | 0.030844 | 0.047021 | 0.041143 | 0.041143 | 0.048125 | 0.046622 | 0.047904 | 0.050848 | 0.048059 | 0.048826 | 0.055022 | 0.032744 | 0.030871 |
| 9 | 0.025565 | 0.041397 | 0.034951 | 0.034951 | 0.064014 | 0.070939 | 0.067696 | 0.026131 | 0.017683 | 0.017043 | 0.015178 | 0.021855 | 0.019997 |
| 10 | 0.053784 | 0.035266 | 0.029555 | 0.029555 | 0.059196 | 0.066851 | 0.059289 | 0.026395 | 0.017940 | 0.016190 | 0.015220 | 0.028546 | 0.027428 |
| 11 | 0.051103 | 0.047958 | 0.053325 | 0.053325 | 0.050025 | 0.053616 | 0.055111 | 0.030946 | 0.044072 | 0.041381 | 0.015055 | 0.026198 | 0.024805 |
| 12 | 0.062324 | 0.046919 | 0.054891 | 0.054891 | 0.045285 | 0.051800 | 0.050126 | 0.026719 | 0.028590 | 0.027061 | 0.013710 | 0.087920 | 0.078722 |
| 13 | 0.054502 | 0.037948 | 0.047402 | 0.047402 | 0.027519 | 0.037038 | 0.026572 | 0.022762 | 0.030257 | 0.030204 | 0.016287 | 0.056383 | 0.050902 |
| 14 | 0.041181 | 0.032786 | 0.041876 | 0.041876 | 0.023114 | 0.038227 | 0.025789 | 0.022114 | 0.023951 | 0.025697 | 0.008257 | 0.048250 | 0.043087 |
| 15 | 0.030181 | 0.027263 | 0.043250 | 0.043250 | 0.019768 | 0.029133 | 0.025323 | 0.015965 | 0.018410 | 0.019228 | 0.015311 | 0.028953 | 0.024421 |
| 16 | 0.037505 | 0.023986 | 0.040752 | 0.040752 | 0.020334 | 0.035504 | 0.022005 | 0.011312 | 0.014718 | 0.015792 | 0.002516 | 0.022498 | 0.021618 |
| 17 | 0.029545 | 0.019987 | 0.040158 | 0.040158 | 0.021884 | 0.032433 | 0.026359 | 0.020025 | 0.013232 | 0.013489 | 0.004349 | 0.018760 | 0.016864 |
| 18 | 0.019955 | 0.015696 | 0.036866 | 0.036866 | 0.020946 | 0.027559 | 0.025198 | 0.016314 | 0.013138 | 0.013534 | 0.016009 | 0.025502 | 0.023545 |
| 19 | 0.014510 | 0.013126 | 0.028642 | 0.028642 | 0.020545 | 0.017950 | 0.020764 | 0.045336 | 0.010719 | 0.009828 | 0.026480 | 0.035354 | 0.032228 |
| 20 | 0.011663 | 0.009768 | 0.021304 | 0.021304 | 0.024052 | 0.014542 | 0.018668 | 0.035616 | 0.009528 | 0.009369 | 0.034700 | 0.027142 | 0.024374 |
| 21 | 0.008015 | 0.006721 | 0.014751 | 0.014751 | 0.013883 | 0.010189 | 0.015413 | 0.029179 | 0.003893 | 0.004506 | 0.026380 | 0.020163 | 0.018389 |
| 22 | 0.006357 | 0.004944 | 0.014138 | 0.014138 | 0.012940 | 0.010052 | 0.016058 | 0.023923 | 0.004563 | 0.004678 | 0.040035 | 0.013407 | 0.012671 |
| 23 | 0.006191 | 0.003024 | 0.009339 | 0.009339 | 0.015951 | 0.009652 | 0.011191 | 0.025391 | 0.002344 | 0.002323 | 0.029321 | 0.012108 | 0.012375 |
| 24 | 0.004201 | 0.002288 | 0.008224 | 0.008224 | 0.014005 | 0.008408 | 0.012497 | 0.022116 | 0.002225 | 0.002388 | 0.026858 | 0.012069 | 0.011774 |
| 25 | 0.003814 | 0.001584 | 0.006870 | 0.006870 | 0.015337 | 0.007281 | 0.013322 | 0.022806 | 0.001247 | 0.001414 | 0.017266 | 0.007491 | 0.008079 |
| 26 | 0.002487 | 0.001192 | 0.004385 | 0.004385 | 0.016979 | 0.004626 | 0.011010 | 0.026631 | 0.001003 | 0.001073 | 0.031264 | 0.005785 | 0.006273 |
| 27 | 0.002073 | 0.000922 | 0.003318 | 0.003318 | 0.009554 | 0.002789 | 0.005589 | 0.021048 | 0.000740 | 0.000713 | 0.047300 | 0.003739 | 0.003870 |
| 28 | 0.001106 | 0.000832 | 0.002499 | 0.002499 | 0.007379 | 0.001402 | 0.004990 | 0.012815 | 0.000677 | 0.000730 | 0.020905 | 0.002912 | 0.003640 |
| 29 | 0.001492 | 0.000640 | 0.002173 | 0.002173 | 0.006276 | 0.000575 | 0.004078 | 0.008047 | 0.000533 | 0.000653 | 0.033963 | 0.002335 | 0.003493 |
| 30 | 0.018158 | 0.005128 | 0.012123 | 0.012123 | 0.017635 | 0.001218 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Harris County 2027 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.067022 | 0.060996 | 0.050704 | 0.050704 | 0.052770 | 0.052770 | 0.052770 | 0.055385 | 0.107326 | 0.108951 | 0.055385 | 0.054796 | 0.068825 |
| 1 | 0.073186 | 0.079200 | 0.064064 | 0.064064 | 0.052814 | 0.052631 | 0.052756 | 0.055139 | 0.098838 | 0.103650 | 0.056488 | 0.056698 | 0.059543 |
| 2 | 0.061329 | 0.076245 | 0.050862 | 0.050862 | 0.052718 | 0.052406 | 0.052638 | 0.054991 | 0.113632 | 0.111268 | 0.056702 | 0.044354 | 0.047903 |
| 3 | 0.063540 | 0.075379 | 0.048647 | 0.048647 | 0.052918 | 0.052454 | 0.052831 | 0.055204 | 0.089706 | 0.085755 | 0.057356 | 0.053668 | 0.060675 |
| 4 | 0.062075 | 0.083557 | 0.051486 | 0.051486 | 0.053891 | 0.053316 | 0.053743 | 0.055756 | 0.101333 | 0.102451 | 0.058781 | 0.064806 | 0.071965 |
| 5 | 0.057100 | 0.072572 | 0.055214 | 0.055214 | 0.053660 | 0.052939 | 0.053478 | 0.055275 | 0.056427 | 0.056032 | 0.058720 | 0.056252 | 0.057263 |
| 6 | 0.053341 | 0.068192 | 0.046605 | 0.046605 | 0.050110 | 0.049293 | 0.049951 | 0.052822 | 0.053431 | 0.050813 | 0.056704 | 0.057525 | 0.058116 |
| 7 | 0.045852 | 0.057464 | 0.040483 | 0.040483 | 0.050257 | 0.049260 | 0.050171 | 0.052730 | 0.069221 | 0.071436 | 0.056813 | 0.063625 | 0.060032 |
| 8 | 0.030844 | 0.047021 | 0.041143 | 0.041143 | 0.050525 | 0.049151 | 0.050427 | 0.052628 | 0.048059 | 0.048826 | 0.057311 | 0.032744 | 0.030871 |
| 9 | 0.025565 | 0.041397 | 0.034951 | 0.034951 | 0.046163 | 0.044413 | 0.045842 | 0.048878 | 0.017683 | 0.017043 | 0.054314 | 0.021855 | 0.019997 |
| 10 | 0.053784 | 0.035266 | 0.029555 | 0.029555 | 0.061404 | 0.067579 | 0.064781 | 0.025119 | 0.017940 | 0.016190 | 0.014982 | 0.028546 | 0.027428 |
| 11 | 0.051103 | 0.047958 | 0.053325 | 0.053325 | 0.056161 | 0.062912 | 0.056092 | 0.025148 | 0.044072 | 0.041381 | 0.014903 | 0.026198 | 0.024805 |
| 12 | 0.062324 | 0.046919 | 0.054891 | 0.054891 | 0.047461 | 0.050457 | 0.052138 | 0.029484 | 0.028590 | 0.027061 | 0.014741 | 0.087920 | 0.078722 |
| 13 | 0.054502 | 0.037948 | 0.047402 | 0.047402 | 0.042489 | 0.048150 | 0.046877 | 0.025230 | 0.030257 | 0.030204 | 0.013316 | 0.056383 | 0.050902 |
| 14 | 0.041181 | 0.032786 | 0.041876 | 0.041876 | 0.025820 | 0.034428 | 0.024850 | 0.021493 | 0.023951 | 0.025697 | 0.015819 | 0.048250 | 0.043087 |
| 15 | 0.030181 | 0.027263 | 0.043250 | 0.043250 | 0.021687 | 0.035534 | 0.024118 | 0.020881 | 0.018410 | 0.019228 | 0.008020 | 0.028953 | 0.024421 |
| 16 | 0.037505 | 0.023986 | 0.040752 | 0.040752 | 0.018340 | 0.026744 | 0.023407 | 0.014939 | 0.014718 | 0.015792 | 0.014749 | 0.022498 | 0.021618 |
| 17 | 0.029545 | 0.019987 | 0.040158 | 0.040158 | 0.018865 | 0.032592 | 0.020340 | 0.010585 | 0.013232 | 0.013489 | 0.002423 | 0.018760 | 0.016864 |
| 18 | 0.019955 | 0.015696 | 0.036866 | 0.036866 | 0.020074 | 0.029399 | 0.024077 | 0.018568 | 0.013138 | 0.013534 | 0.004155 | 0.025502 | 0.023545 |
| 19 | 0.014510 | 0.013126 | 0.028642 | 0.028642 | 0.019213 | 0.024981 | 0.023017 | 0.015126 | 0.010719 | 0.009828 | 0.015295 | 0.035354 | 0.032228 |
| 20 | 0.011663 | 0.009768 | 0.021304 | 0.021304 | 0.018630 | 0.016064 | 0.018740 | 0.041651 | 0.009528 | 0.009369 | 0.025089 | 0.027142 | 0.024374 |
| 21 | 0.008015 | 0.006721 | 0.014751 | 0.014751 | 0.021810 | 0.013014 | 0.016849 | 0.032722 | 0.003893 | 0.004506 | 0.032878 | 0.020163 | 0.018389 |
| 22 | 0.006357 | 0.004944 | 0.014138 | 0.014138 | 0.012589 | 0.009118 | 0.013911 | 0.026807 | 0.004563 | 0.004678 | 0.024995 | 0.013407 | 0.012671 |
| 23 | 0.006191 | 0.003024 | 0.009339 | 0.009339 | 0.011598 | 0.008880 | 0.014318 | 0.021775 | 0.002344 | 0.002323 | 0.037614 | 0.012108 | 0.012375 |
| 24 | 0.004201 | 0.002288 | 0.008224 | 0.008224 | 0.014297 | 0.008526 | 0.009979 | 0.023111 | 0.002225 | 0.002388 | 0.027548 | 0.012069 | 0.011774 |
| 25 | 0.003814 | 0.001584 | 0.006870 | 0.006870 | 0.012553 | 0.007427 | 0.011144 | 0.020130 | 0.001247 | 0.001414 | 0.025235 | 0.007491 | 0.008079 |
| 26 | 0.002487 | 0.001192 | 0.004385 | 0.004385 | 0.013586 | 0.006348 | 0.011734 | 0.020564 | 0.001003 | 0.001073 | 0.016085 | 0.005785 | 0.006273 |
| 27 | 0.002073 | 0.000922 | 0.003318 | 0.003318 | 0.015041 | 0.004033 | 0.009698 | 0.024014 | 0.000740 | 0.000713 | 0.029126 | 0.003739 | 0.003870 |
| 28 | 0.001106 | 0.000832 | 0.002499 | 0.002499 | 0.008463 | 0.002432 | 0.004923 | 0.018979 | 0.000677 | 0.000730 | 0.044065 | 0.002912 | 0.003640 |
| 29 | 0.001492 | 0.000640 | 0.002173 | 0.002173 | 0.006459 | 0.001206 | 0.004341 | 0.011447 | 0.000533 | 0.000653 | 0.019310 | 0.002335 | 0.003493 |
| 30 | 0.018158 | 0.005128 | 0.012123 | 0.012123 | 0.017635 | 0.001542 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Liberty County 2011 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.055821 | 0.052213 | 0.042145 | 0.042145 | 0.036180 | 0.074697 | 0.043899 | 0.020412 | 0.107326 | 0.108951 | 0.017572 | 0.054796 | 0.068825 |
| 1 | 0.049442 | 0.074386 | 0.057456 | 0.057456 | 0.039841 | 0.101513 | 0.042214 | 0.015110 | 0.098838 | 0.103650 | 0.002979 | 0.056698 | 0.059543 |
| 2 | 0.050239 | 0.072547 | 0.046869 | 0.046869 | 0.046623 | 0.104812 | 0.055843 | 0.028331 | 0.113632 | 0.111268 | 0.005313 | 0.044354 | 0.047903 |
| 3 | 0.063796 | 0.068085 | 0.038317 | 0.038317 | 0.049281 | 0.102921 | 0.059585 | 0.025227 | 0.089706 | 0.085755 | 0.020619 | 0.053668 | 0.060675 |
| 4 | 0.047049 | 0.074602 | 0.043652 | 0.043652 | 0.052966 | 0.076456 | 0.054774 | 0.076490 | 0.101333 | 0.102451 | 0.035762 | 0.064806 | 0.071965 |
| 5 | 0.043062 | 0.065895 | 0.047113 | 0.047113 | 0.068397 | 0.072053 | 0.055227 | 0.064970 | 0.056427 | 0.056032 | 0.048854 | 0.056252 | 0.057263 |
| 6 | 0.045455 | 0.057864 | 0.041575 | 0.041575 | 0.042648 | 0.057371 | 0.050452 | 0.056933 | 0.053431 | 0.050813 | 0.038874 | 0.057525 | 0.058116 |
| 7 | 0.040670 | 0.050023 | 0.036974 | 0.036974 | 0.042736 | 0.064267 | 0.058689 | 0.049088 | 0.069221 | 0.071436 | 0.060535 | 0.063625 | 0.060032 |
| 8 | 0.034290 | 0.043182 | 0.038236 | 0.038236 | 0.057372 | 0.070033 | 0.045203 | 0.055546 | 0.048059 | 0.048826 | 0.046135 | 0.032744 | 0.030871 |
| 9 | 0.029506 | 0.038017 | 0.030499 | 0.030499 | 0.054751 | 0.068493 | 0.055453 | 0.052116 | 0.017683 | 0.017043 | 0.044240 | 0.021855 | 0.019997 |
| 10 | 0.059011 | 0.033853 | 0.027201 | 0.027201 | 0.065557 | 0.068653 | 0.065744 | 0.057687 | 0.017940 | 0.016190 | 0.029414 | 0.028546 | 0.027428 |
| 11 | 0.055821 | 0.049455 | 0.050533 | 0.050533 | 0.078557 | 0.049889 | 0.060342 | 0.072218 | 0.044072 | 0.041381 | 0.055786 | 0.026198 | 0.024805 |
| 12 | 0.060606 | 0.052808 | 0.050330 | 0.050330 | 0.047578 | 0.034391 | 0.034339 | 0.060105 | 0.028590 | 0.027061 | 0.086656 | 0.087920 | 0.078722 |
| 13 | 0.057416 | 0.044885 | 0.049638 | 0.049638 | 0.039627 | 0.019471 | 0.033557 | 0.038712 | 0.030257 | 0.030204 | 0.039532 | 0.056383 | 0.050902 |
| 14 | 0.055024 | 0.042019 | 0.044425 | 0.044425 | 0.036599 | 0.009178 | 0.030650 | 0.026002 | 0.023951 | 0.025697 | 0.066825 | 0.048250 | 0.043087 |
| 15 | 0.035088 | 0.031095 | 0.046991 | 0.046991 | 0.029292 | 0.013218 | 0.027866 | 0.034289 | 0.018410 | 0.019228 | 0.035417 | 0.028953 | 0.024421 |
| 16 | 0.044657 | 0.030555 | 0.047032 | 0.047032 | 0.030064 | 0.002472 | 0.031547 | 0.039908 | 0.014718 | 0.015792 | 0.039586 | 0.022498 | 0.021618 |
| 17 | 0.040670 | 0.026120 | 0.047968 | 0.047968 | 0.023718 | 0.004862 | 0.016693 | 0.025686 | 0.013232 | 0.013489 | 0.041853 | 0.018760 | 0.016864 |
| 18 | 0.023126 | 0.021875 | 0.045566 | 0.045566 | 0.021178 | 0.000730 | 0.020301 | 0.020470 | 0.013138 | 0.013534 | 0.025183 | 0.025502 | 0.023545 |
| 19 | 0.025518 | 0.016954 | 0.034368 | 0.034368 | 0.013178 | 0.001112 | 0.018896 | 0.016540 | 0.010719 | 0.009828 | 0.024551 | 0.035354 | 0.032228 |
| 20 | 0.021531 | 0.014412 | 0.027486 | 0.027486 | 0.011799 | 0.000936 | 0.024538 | 0.021137 | 0.009528 | 0.009369 | 0.016394 | 0.027142 | 0.024374 |
| 21 | 0.007177 | 0.009978 | 0.020604 | 0.020604 | 0.017000 | 0.001181 | 0.026242 | 0.024395 | 0.003893 | 0.004506 | 0.025289 | 0.020163 | 0.018389 |
| 22 | 0.015152 | 0.006976 | 0.019627 | 0.019627 | 0.021289 | 0.000616 | 0.013673 | 0.017998 | 0.004563 | 0.004678 | 0.031470 | 0.013407 | 0.012671 |
| 23 | 0.006380 | 0.004759 | 0.013071 | 0.013071 | 0.013982 | 0.000249 | 0.014528 | 0.019271 | 0.002344 | 0.002323 | 0.028159 | 0.012108 | 0.012375 |
| 24 | 0.007974 | 0.004516 | 0.013519 | 0.013519 | 0.009457 | 0.000070 | 0.013551 | 0.017751 | 0.002225 | 0.002388 | 0.025783 | 0.012069 | 0.011774 |
| 25 | 0.007974 | 0.002839 | 0.010099 | 0.010099 | 0.007992 | 0.000024 | 0.010508 | 0.012854 | 0.001247 | 0.001414 | 0.015597 | 0.007491 | 0.008079 |
| 26 | 0.001595 | 0.001622 | 0.005782 | 0.005782 | 0.008237 | 0.000050 | 0.007903 | 0.012188 | 0.001003 | 0.001073 | 0.016256 | 0.005785 | 0.006273 |
| 27 | 0.000797 | 0.001325 | 0.004153 | 0.004153 | 0.006363 | 0.000037 | 0.006810 | 0.010137 | 0.000740 | 0.000713 | 0.015723 | 0.003739 | 0.003870 |
| 28 | 0.001595 | 0.001055 | 0.003868 | 0.003868 | 0.005349 | 0.000027 | 0.005974 | 0.008018 | 0.000677 | 0.000730 | 0.014339 | 0.002912 | 0.003640 |
| 29 | 0.001595 | 0.000730 | 0.002606 | 0.002606 | 0.004757 | 0.000020 | 0.004936 | 0.006995 | 0.000533 | 0.000653 | 0.014229 | 0.002335 | 0.003493 |
| 30 | 0.011962 | 0.005354 | 0.012297 | 0.012297 | 0.017635 | 0.000198 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Liberty County 2017 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.055821 | 0.052213 | 0.042145 | 0.042145 | 0.078824 | 0.091142 | 0.083978 | 0.031614 | 0.107326 | 0.108951 | 0.016664 | 0.054796 | 0.068825 |
| 1 | 0.049442 | 0.074386 | 0.057456 | 0.057456 | 0.075667 | 0.090093 | 0.076580 | 0.032820 | 0.098838 | 0.103650 | 0.017093 | 0.056698 | 0.059543 |
| 2 | 0.050239 | 0.072547 | 0.046869 | 0.046869 | 0.067199 | 0.077034 | 0.075099 | 0.039904 | 0.113632 | 0.111268 | 0.017428 | 0.044354 | 0.047903 |
| 3 | 0.063796 | 0.068085 | 0.038317 | 0.038317 | 0.063959 | 0.079629 | 0.072132 | 0.035734 | 0.089706 | 0.085755 | 0.016351 | 0.053668 | 0.060675 |
| 4 | 0.047049 | 0.074602 | 0.043652 | 0.043652 | 0.041394 | 0.062045 | 0.040955 | 0.031878 | 0.101333 | 0.102451 | 0.020170 | 0.064806 | 0.071965 |
| 5 | 0.043062 | 0.065895 | 0.047113 | 0.047113 | 0.036596 | 0.068674 | 0.042028 | 0.032138 | 0.056427 | 0.056032 | 0.010539 | 0.056252 | 0.057263 |
| 6 | 0.045455 | 0.057864 | 0.041575 | 0.041575 | 0.032532 | 0.055132 | 0.043047 | 0.023869 | 0.053431 | 0.050813 | 0.019997 | 0.057525 | 0.058116 |
| 7 | 0.040670 | 0.050023 | 0.036974 | 0.036974 | 0.035230 | 0.072004 | 0.039560 | 0.017559 | 0.069221 | 0.071436 | 0.003389 | 0.063625 | 0.060032 |
| 8 | 0.034290 | 0.043182 | 0.038236 | 0.038236 | 0.039392 | 0.069145 | 0.049382 | 0.031958 | 0.048059 | 0.048826 | 0.005994 | 0.032744 | 0.030871 |
| 9 | 0.029506 | 0.038017 | 0.030499 | 0.030499 | 0.039680 | 0.062851 | 0.049899 | 0.027028 | 0.017683 | 0.017043 | 0.022758 | 0.021855 | 0.019997 |
| 10 | 0.059011 | 0.033853 | 0.027201 | 0.027201 | 0.041020 | 0.044016 | 0.043545 | 0.078002 | 0.017940 | 0.016190 | 0.038819 | 0.028546 | 0.027428 |
| 11 | 0.055821 | 0.049455 | 0.050533 | 0.050533 | 0.050566 | 0.038149 | 0.041402 | 0.063658 | 0.044072 | 0.041381 | 0.052497 | 0.026198 | 0.024805 |
| 12 | 0.060606 | 0.052808 | 0.050330 | 0.050330 | 0.030779 | 0.028742 | 0.036224 | 0.054189 | 0.028590 | 0.027061 | 0.041177 | 0.087920 | 0.078722 |
| 13 | 0.057416 | 0.044885 | 0.049638 | 0.049638 | 0.029860 | 0.029906 | 0.039417 | 0.045716 | 0.030257 | 0.030204 | 0.063961 | 0.056383 | 0.050902 |
| 14 | 0.055024 | 0.042019 | 0.044425 | 0.044425 | 0.038819 | 0.030838 | 0.029111 | 0.050432 | 0.023951 | 0.025697 | 0.048354 | 0.048250 | 0.043087 |
| 15 | 0.035088 | 0.031095 | 0.046991 | 0.046991 | 0.035967 | 0.028980 | 0.034482 | 0.045640 | 0.018410 | 0.019228 | 0.045680 | 0.028953 | 0.024421 |
| 16 | 0.044657 | 0.030555 | 0.047032 | 0.047032 | 0.041037 | 0.026572 | 0.038448 | 0.048454 | 0.014718 | 0.015792 | 0.030061 | 0.022498 | 0.021618 |
| 17 | 0.040670 | 0.026120 | 0.047968 | 0.047968 | 0.047968 | 0.018212 | 0.033726 | 0.058821 | 0.013232 | 0.013489 | 0.056177 | 0.018760 | 0.016864 |
| 18 | 0.023126 | 0.021875 | 0.045566 | 0.045566 | 0.028106 | 0.011607 | 0.017894 | 0.047873 | 0.013138 | 0.013534 | 0.087043 | 0.025502 | 0.023545 |
| 19 | 0.025518 | 0.016954 | 0.034368 | 0.034368 | 0.022635 | 0.006198 | 0.016732 | 0.030019 | 0.010719 | 0.009828 | 0.039384 | 0.035354 | 0.032228 |
| 20 | 0.021531 | 0.014412 | 0.027486 | 0.027486 | 0.020051 | 0.002680 | 0.014288 | 0.019410 | 0.009528 | 0.009369 | 0.065558 | 0.027142 | 0.024374 |
| 21 | 0.007177 | 0.009978 | 0.020604 | 0.020604 | 0.015338 | 0.003551 | 0.012169 | 0.024501 | 0.003893 | 0.004506 | 0.034386 | 0.020163 | 0.018389 |
| 22 | 0.015152 | 0.006976 | 0.019627 | 0.019627 | 0.015262 | 0.000636 | 0.013276 | 0.027421 | 0.004563 | 0.004678 | 0.037837 | 0.013407 | 0.012671 |
| 23 | 0.006380 | 0.004759 | 0.013071 | 0.013071 | 0.011438 | 0.001134 | 0.006577 | 0.016877 | 0.002344 | 0.002323 | 0.039588 | 0.012108 | 0.012375 |
| 24 | 0.007974 | 0.004516 | 0.013519 | 0.013519 | 0.009950 | 0.000160 | 0.007616 | 0.013002 | 0.002225 | 0.002388 | 0.023454 | 0.012069 | 0.011774 |
| 25 | 0.007974 | 0.002839 | 0.010099 | 0.010099 | 0.006052 | 0.000234 | 0.006794 | 0.010264 | 0.001247 | 0.001414 | 0.022808 | 0.007491 | 0.008079 |
| 26 | 0.001595 | 0.001622 | 0.005782 | 0.005782 | 0.005200 | 0.000182 | 0.008420 | 0.012742 | 0.001003 | 0.001073 | 0.015103 | 0.005785 | 0.006273 |
| 27 | 0.000797 | 0.001325 | 0.004153 | 0.004153 | 0.007295 | 0.000215 | 0.008562 | 0.014199 | 0.000740 | 0.000713 | 0.022934 | 0.003739 | 0.003870 |
| 28 | 0.001595 | 0.001055 | 0.003868 | 0.003868 | 0.008928 | 0.000108 | 0.004271 | 0.010231 | 0.000677 | 0.000730 | 0.028466 | 0.002912 | 0.003640 |
| 29 | 0.001595 | 0.000730 | 0.002606 | 0.002606 | 0.005620 | 0.000040 | 0.004325 | 0.010633 | 0.000533 | 0.000653 | 0.025257 | 0.002335 | 0.003493 |
| 30 | 0.011962 | 0.005354 | 0.012297 | 0.012297 | 0.017635 | 0.000091 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Liberty County 2018 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.055821 | 0.052213 | 0.042145 | 0.042145 | 0.056764 | 0.056764 | 0.056764 | 0.059441 | 0.107326 | 0.108951 | 0.059441 | 0.054796 | 0.068825 |
| 1 | 0.049442 | 0.074386 | 0.057456 | 0.057456 | 0.078327 | 0.090363 | 0.083431 | 0.031402 | 0.098838 | 0.103650 | 0.016783 | 0.056698 | 0.059543 |
| 2 | 0.050239 | 0.072547 | 0.046869 | 0.046869 | 0.075191 | 0.089323 | 0.076081 | 0.032600 | 0.113632 | 0.111268 | 0.017214 | 0.044354 | 0.047903 |
| 3 | 0.063796 | 0.068085 | 0.038317 | 0.038317 | 0.066776 | 0.076375 | 0.074609 | 0.039636 | 0.089706 | 0.085755 | 0.017551 | 0.053668 | 0.060675 |
| 4 | 0.047049 | 0.074602 | 0.043652 | 0.043652 | 0.063556 | 0.078948 | 0.071662 | 0.035495 | 0.101333 | 0.102451 | 0.016467 | 0.064806 | 0.071965 |
| 5 | 0.043062 | 0.065895 | 0.047113 | 0.047113 | 0.040595 | 0.060250 | 0.040093 | 0.031371 | 0.056427 | 0.056032 | 0.020168 | 0.056252 | 0.057263 |
| 6 | 0.045455 | 0.057864 | 0.041575 | 0.041575 | 0.035413 | 0.065287 | 0.040533 | 0.031332 | 0.053431 | 0.050813 | 0.010463 | 0.057525 | 0.058116 |
| 7 | 0.040670 | 0.050023 | 0.036974 | 0.036974 | 0.031480 | 0.052413 | 0.041516 | 0.023270 | 0.069221 | 0.071436 | 0.019852 | 0.063625 | 0.060032 |
| 8 | 0.034290 | 0.043182 | 0.038236 | 0.038236 | 0.033634 | 0.066986 | 0.037578 | 0.016956 | 0.048059 | 0.048826 | 0.003340 | 0.032744 | 0.030871 |
| 9 | 0.029506 | 0.038017 | 0.030499 | 0.030499 | 0.037606 | 0.064326 | 0.046908 | 0.030862 | 0.017683 | 0.017043 | 0.005908 | 0.021855 | 0.019997 |
| 10 | 0.059011 | 0.033853 | 0.027201 | 0.027201 | 0.037881 | 0.058471 | 0.047399 | 0.026101 | 0.017940 | 0.016190 | 0.022431 | 0.028546 | 0.027428 |
| 11 | 0.055821 | 0.049455 | 0.050533 | 0.050533 | 0.038627 | 0.040052 | 0.040731 | 0.074609 | 0.044072 | 0.041381 | 0.037983 | 0.026198 | 0.024805 |
| 12 | 0.060606 | 0.052808 | 0.050330 | 0.050330 | 0.047616 | 0.034712 | 0.038727 | 0.060889 | 0.028590 | 0.027061 | 0.051366 | 0.087920 | 0.078722 |
| 13 | 0.057416 | 0.044885 | 0.049638 | 0.049638 | 0.028583 | 0.025567 | 0.033357 | 0.051333 | 0.030257 | 0.030204 | 0.039996 | 0.056383 | 0.050902 |
| 14 | 0.055024 | 0.042019 | 0.044425 | 0.044425 | 0.027729 | 0.026602 | 0.036297 | 0.043307 | 0.023951 | 0.025697 | 0.062126 | 0.048250 | 0.043087 |
| 15 | 0.035088 | 0.031095 | 0.046991 | 0.046991 | 0.036049 | 0.027432 | 0.026806 | 0.047774 | 0.018410 | 0.019228 | 0.046967 | 0.028953 | 0.024421 |
| 16 | 0.044657 | 0.030555 | 0.047032 | 0.047032 | 0.032933 | 0.025188 | 0.031252 | 0.042815 | 0.014718 | 0.015792 | 0.044042 | 0.022498 | 0.021618 |
| 17 | 0.040670 | 0.026120 | 0.047968 | 0.047968 | 0.037575 | 0.023095 | 0.034847 | 0.045455 | 0.013232 | 0.013489 | 0.028983 | 0.018760 | 0.016864 |
| 18 | 0.023126 | 0.021875 | 0.045566 | 0.045566 | 0.043298 | 0.015458 | 0.030076 | 0.054639 | 0.013138 | 0.013534 | 0.053761 | 0.025502 | 0.023545 |
| 19 | 0.025518 | 0.016954 | 0.034368 | 0.034368 | 0.025369 | 0.009852 | 0.015958 | 0.044470 | 0.010719 | 0.009828 | 0.083300 | 0.035354 | 0.032228 |
| 20 | 0.021531 | 0.014412 | 0.027486 | 0.027486 | 0.020137 | 0.005134 | 0.014678 | 0.027609 | 0.009528 | 0.009369 | 0.037408 | 0.027142 | 0.024374 |
| 21 | 0.007177 | 0.009978 | 0.020604 | 0.020604 | 0.017838 | 0.002220 | 0.012535 | 0.017851 | 0.003893 | 0.004506 | 0.062269 | 0.020163 | 0.018389 |
| 22 | 0.015152 | 0.006976 | 0.019627 | 0.019627 | 0.013645 | 0.002941 | 0.010676 | 0.022533 | 0.004563 | 0.004678 | 0.032661 | 0.013407 | 0.012671 |
| 23 | 0.006380 | 0.004759 | 0.013071 | 0.013071 | 0.013379 | 0.000514 | 0.011454 | 0.024967 | 0.002344 | 0.002323 | 0.035668 | 0.012108 | 0.012375 |
| 24 | 0.007974 | 0.004516 | 0.013519 | 0.013519 | 0.010027 | 0.000916 | 0.005674 | 0.015367 | 0.002225 | 0.002388 | 0.037319 | 0.012069 | 0.011774 |
| 25 | 0.007974 | 0.002839 | 0.010099 | 0.010099 | 0.008723 | 0.000129 | 0.006571 | 0.011838 | 0.001247 | 0.001414 | 0.022110 | 0.007491 | 0.008079 |
| 26 | 0.001595 | 0.001622 | 0.005782 | 0.005782 | 0.005227 | 0.000184 | 0.005762 | 0.009251 | 0.001003 | 0.001073 | 0.021337 | 0.005785 | 0.006273 |
| 27 | 0.000797 | 0.001325 | 0.004153 | 0.004153 | 0.004490 | 0.000144 | 0.007142 | 0.011484 | 0.000740 | 0.000713 | 0.014129 | 0.003739 | 0.003870 |
| 28 | 0.001595 | 0.001055 | 0.003868 | 0.003868 | 0.006300 | 0.000169 | 0.007262 | 0.012798 | 0.000677 | 0.000730 | 0.021455 | 0.002912 | 0.003640 |
| 29 | 0.001595 | 0.000730 | 0.002606 | 0.002606 | 0.007594 | 0.000083 | 0.003561 | 0.009127 | 0.000533 | 0.000653 | 0.026427 | 0.002335 | 0.003493 |
| 30 | 0.011962 | 0.005354 | 0.012297 | 0.012297 | 0.017635 | 0.000101 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Liberty County 2020 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.055821 | 0.052213 | 0.042145 | 0.042145 | 0.056623 | 0.056623 | 0.056623 | 0.059505 | 0.107326 | 0.108951 | 0.059505 | 0.054796 | 0.068825 |
| 1 | 0.049442 | 0.074386 | 0.057456 | 0.057456 | 0.058906 | 0.058781 | 0.059000 | 0.060992 | 0.098838 | 0.103650 | 0.061446 | 0.056698 | 0.059543 |
| 2 | 0.050239 | 0.072547 | 0.046869 | 0.046869 | 0.055787 | 0.055441 | 0.055725 | 0.058218 | 0.113632 | 0.111268 | 0.059616 | 0.044354 | 0.047903 |
| 3 | 0.063796 | 0.068085 | 0.038317 | 0.038317 | 0.076979 | 0.088257 | 0.081903 | 0.030756 | 0.089706 | 0.085755 | 0.016832 | 0.053668 | 0.060675 |
| 4 | 0.047049 | 0.074602 | 0.043652 | 0.043652 | 0.073896 | 0.087241 | 0.074688 | 0.031930 | 0.101333 | 0.102451 | 0.017265 | 0.064806 | 0.071965 |
| 5 | 0.043062 | 0.065895 | 0.047113 | 0.047113 | 0.064800 | 0.073271 | 0.072235 | 0.038481 | 0.056427 | 0.056032 | 0.017480 | 0.056252 | 0.057263 |
| 6 | 0.045455 | 0.057864 | 0.041575 | 0.041575 | 0.060109 | 0.072950 | 0.067439 | 0.033841 | 0.053431 | 0.050813 | 0.016168 | 0.057525 | 0.058116 |
| 7 | 0.040670 | 0.050023 | 0.036974 | 0.036974 | 0.037895 | 0.054587 | 0.037185 | 0.029629 | 0.069221 | 0.071436 | 0.019658 | 0.063625 | 0.060032 |
| 8 | 0.034290 | 0.043182 | 0.038236 | 0.038236 | 0.032631 | 0.058063 | 0.037061 | 0.029329 | 0.048059 | 0.048826 | 0.010126 | 0.032744 | 0.030871 |
| 9 | 0.029506 | 0.038017 | 0.030499 | 0.030499 | 0.028626 | 0.045687 | 0.037403 | 0.021577 | 0.017683 | 0.017043 | 0.019072 | 0.021855 | 0.019997 |
| 10 | 0.059011 | 0.033853 | 0.027201 | 0.027201 | 0.030584 | 0.058389 | 0.033855 | 0.015723 | 0.017940 | 0.016190 | 0.003209 | 0.028546 | 0.027428 |
| 11 | 0.055821 | 0.049455 | 0.050533 | 0.050533 | 0.033749 | 0.055020 | 0.041655 | 0.028360 | 0.044072 | 0.041381 | 0.005636 | 0.026198 | 0.024805 |
| 12 | 0.060606 | 0.052808 | 0.050330 | 0.050330 | 0.033542 | 0.048997 | 0.041464 | 0.023756 | 0.028590 | 0.027061 | 0.021238 | 0.087920 | 0.078722 |
| 13 | 0.057416 | 0.044885 | 0.049638 | 0.049638 | 0.033749 | 0.032921 | 0.035112 | 0.067292 | 0.030257 | 0.030204 | 0.035704 | 0.056383 | 0.050902 |
| 14 | 0.055024 | 0.042019 | 0.044425 | 0.044425 | 0.041041 | 0.027942 | 0.032880 | 0.054391 | 0.023951 | 0.025697 | 0.047926 | 0.048250 | 0.043087 |
| 15 | 0.035088 | 0.031095 | 0.046991 | 0.046991 | 0.024637 | 0.020580 | 0.028321 | 0.045855 | 0.018410 | 0.019228 | 0.037318 | 0.028953 | 0.024421 |
| 16 | 0.044657 | 0.030555 | 0.047032 | 0.047032 | 0.023580 | 0.020997 | 0.030362 | 0.038331 | 0.014718 | 0.015792 | 0.057546 | 0.022498 | 0.021618 |
| 17 | 0.040670 | 0.026120 | 0.047968 | 0.047968 | 0.030235 | 0.021194 | 0.022079 | 0.041875 | 0.013232 | 0.013489 | 0.043179 | 0.018760 | 0.016864 |
| 18 | 0.023126 | 0.021875 | 0.045566 | 0.045566 | 0.027245 | 0.019074 | 0.025355 | 0.037181 | 0.013138 | 0.013534 | 0.040195 | 0.025502 | 0.023545 |
| 19 | 0.025518 | 0.016954 | 0.034368 | 0.034368 | 0.030654 | 0.017111 | 0.027831 | 0.039087 | 0.010719 | 0.009828 | 0.026252 | 0.035354 | 0.032228 |
| 20 | 0.021531 | 0.014412 | 0.027486 | 0.027486 | 0.034835 | 0.011221 | 0.023655 | 0.046548 | 0.009528 | 0.009369 | 0.048337 | 0.027142 | 0.024374 |
| 21 | 0.007177 | 0.009978 | 0.020604 | 0.020604 | 0.020123 | 0.006993 | 0.012353 | 0.037509 | 0.003893 | 0.004506 | 0.074328 | 0.020163 | 0.018389 |
| 22 | 0.015152 | 0.006976 | 0.019627 | 0.019627 | 0.015973 | 0.003645 | 0.011362 | 0.023287 | 0.004563 | 0.004678 | 0.033379 | 0.013407 | 0.012671 |
| 23 | 0.006380 | 0.004759 | 0.013071 | 0.013071 | 0.013951 | 0.001543 | 0.009553 | 0.014916 | 0.002344 | 0.002323 | 0.055151 | 0.012108 | 0.012375 |
| 24 | 0.007974 | 0.004516 | 0.013519 | 0.013519 | 0.010520 | 0.001999 | 0.008005 | 0.018640 | 0.002225 | 0.002388 | 0.028706 | 0.012069 | 0.011774 |
| 25 | 0.007974 | 0.002839 | 0.010099 | 0.010099 | 0.010315 | 0.000349 | 0.008588 | 0.020653 | 0.001247 | 0.001414 | 0.031349 | 0.007491 | 0.008079 |
| 26 | 0.001595 | 0.001622 | 0.005782 | 0.005782 | 0.007620 | 0.000609 | 0.004188 | 0.012591 | 0.001003 | 0.001073 | 0.032556 | 0.005785 | 0.006273 |
| 27 | 0.000797 | 0.001325 | 0.004153 | 0.004153 | 0.006533 | 0.000084 | 0.004770 | 0.009602 | 0.000740 | 0.000713 | 0.019139 | 0.003739 | 0.003870 |
| 28 | 0.001595 | 0.001055 | 0.003868 | 0.003868 | 0.003915 | 0.000120 | 0.004184 | 0.007503 | 0.000677 | 0.000730 | 0.018470 | 0.002912 | 0.003640 |
| 29 | 0.001595 | 0.000730 | 0.002606 | 0.002606 | 0.003315 | 0.000091 | 0.005102 | 0.009226 | 0.000533 | 0.000653 | 0.012139 | 0.002335 | 0.003493 |
| 30 | 0.011962 | 0.005354 | 0.012297 | 0.012297 | 0.017635 | 0.000219 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Liberty County 2023 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.055821 | 0.052213 | 0.042145 | 0.042145 | 0.055916 | 0.055916 | 0.055916 | 0.058180 | 0.107326 | 0.108951 | 0.058180 | 0.054796 | 0.068825 |
| 1 | 0.049442 | 0.074386 | 0.057456 | 0.057456 | 0.056272 | 0.056177 | 0.056259 | 0.058179 | 0.098838 | 0.103650 | 0.058578 | 0.056698 | 0.059543 |
| 2 | 0.050239 | 0.072547 | 0.046869 | 0.046869 | 0.053703 | 0.053595 | 0.053754 | 0.056574 | 0.113632 | 0.111268 | 0.057461 | 0.044354 | 0.047903 |
| 3 | 0.063796 | 0.068085 | 0.038317 | 0.038317 | 0.055079 | 0.054952 | 0.055275 | 0.057472 | 0.089706 | 0.085755 | 0.058467 | 0.053668 | 0.060675 |
| 4 | 0.047049 | 0.074602 | 0.043652 | 0.043652 | 0.057299 | 0.057046 | 0.057596 | 0.058908 | 0.101333 | 0.102451 | 0.060375 | 0.064806 | 0.071965 |
| 5 | 0.043062 | 0.065895 | 0.047113 | 0.047113 | 0.053587 | 0.052974 | 0.053667 | 0.055701 | 0.056427 | 0.056032 | 0.058115 | 0.056252 | 0.057263 |
| 6 | 0.045455 | 0.057864 | 0.041575 | 0.041575 | 0.072106 | 0.081694 | 0.076767 | 0.028881 | 0.053431 | 0.050813 | 0.016156 | 0.057525 | 0.058116 |
| 7 | 0.040670 | 0.050023 | 0.036974 | 0.036974 | 0.067500 | 0.078131 | 0.068119 | 0.029440 | 0.069221 | 0.071436 | 0.016327 | 0.063625 | 0.060032 |
| 8 | 0.034290 | 0.043182 | 0.038236 | 0.038236 | 0.057694 | 0.063477 | 0.064077 | 0.034826 | 0.048059 | 0.048826 | 0.016279 | 0.032744 | 0.030871 |
| 9 | 0.029506 | 0.038017 | 0.030499 | 0.030499 | 0.052840 | 0.062167 | 0.059003 | 0.030340 | 0.017683 | 0.017043 | 0.014941 | 0.021855 | 0.019997 |
| 10 | 0.059011 | 0.033853 | 0.027201 | 0.027201 | 0.032885 | 0.045715 | 0.032079 | 0.026323 | 0.017940 | 0.016190 | 0.018033 | 0.028546 | 0.027428 |
| 11 | 0.055821 | 0.049455 | 0.050533 | 0.050533 | 0.027950 | 0.047838 | 0.031525 | 0.025805 | 0.044072 | 0.041381 | 0.009215 | 0.026198 | 0.024805 |
| 12 | 0.060606 | 0.052808 | 0.050330 | 0.050330 | 0.024205 | 0.037017 | 0.031373 | 0.018806 | 0.028590 | 0.027061 | 0.017221 | 0.087920 | 0.078722 |
| 13 | 0.057416 | 0.044885 | 0.049638 | 0.049638 | 0.025189 | 0.045712 | 0.027598 | 0.013446 | 0.030257 | 0.030204 | 0.002852 | 0.056383 | 0.050902 |
| 14 | 0.055024 | 0.042019 | 0.044425 | 0.044425 | 0.027435 | 0.042348 | 0.033477 | 0.024021 | 0.023951 | 0.025697 | 0.004971 | 0.048250 | 0.043087 |
| 15 | 0.035088 | 0.031095 | 0.046991 | 0.046991 | 0.026908 | 0.037037 | 0.032845 | 0.019936 | 0.018410 | 0.019228 | 0.018594 | 0.028953 | 0.024421 |
| 16 | 0.044657 | 0.030555 | 0.047032 | 0.047032 | 0.026714 | 0.024469 | 0.027413 | 0.055915 | 0.014718 | 0.015792 | 0.031004 | 0.022498 | 0.021618 |
| 17 | 0.040670 | 0.026120 | 0.047968 | 0.047968 | 0.032058 | 0.020412 | 0.025303 | 0.044760 | 0.013232 | 0.013489 | 0.041292 | 0.018760 | 0.016864 |
| 18 | 0.023126 | 0.021875 | 0.045566 | 0.045566 | 0.018731 | 0.014509 | 0.021163 | 0.037012 | 0.013138 | 0.013534 | 0.031647 | 0.025502 | 0.023545 |
| 19 | 0.025518 | 0.016954 | 0.034368 | 0.034368 | 0.017689 | 0.014544 | 0.022359 | 0.030639 | 0.010719 | 0.009828 | 0.048417 | 0.035354 | 0.032228 |
| 20 | 0.021531 | 0.014412 | 0.027486 | 0.027486 | 0.022068 | 0.014159 | 0.015781 | 0.032824 | 0.009528 | 0.009369 | 0.035754 | 0.027142 | 0.024374 |
| 21 | 0.007177 | 0.009978 | 0.020604 | 0.020604 | 0.019618 | 0.012516 | 0.017856 | 0.028859 | 0.003893 | 0.004506 | 0.033019 | 0.020163 | 0.018389 |
| 22 | 0.015152 | 0.006976 | 0.019627 | 0.019627 | 0.021770 | 0.011016 | 0.019305 | 0.030050 | 0.004563 | 0.004678 | 0.021400 | 0.013407 | 0.012671 |
| 23 | 0.006380 | 0.004759 | 0.013071 | 0.013071 | 0.024396 | 0.007096 | 0.016162 | 0.035423 | 0.002344 | 0.002323 | 0.039074 | 0.012108 | 0.012375 |
| 24 | 0.007974 | 0.004516 | 0.013519 | 0.013519 | 0.013900 | 0.004343 | 0.008313 | 0.028262 | 0.002225 | 0.002388 | 0.059603 | 0.012069 | 0.011774 |
| 25 | 0.007974 | 0.002839 | 0.010099 | 0.010099 | 0.010880 | 0.002220 | 0.007530 | 0.017378 | 0.001247 | 0.001414 | 0.026560 | 0.007491 | 0.008079 |
| 26 | 0.001595 | 0.001622 | 0.005782 | 0.005782 | 0.009369 | 0.000923 | 0.006234 | 0.011017 | 0.001003 | 0.001073 | 0.043513 | 0.005785 | 0.006273 |
| 27 | 0.000797 | 0.001325 | 0.004153 | 0.004153 | 0.006966 | 0.001173 | 0.005145 | 0.013629 | 0.000740 | 0.000713 | 0.022466 | 0.003739 | 0.003870 |
| 28 | 0.001595 | 0.001055 | 0.003868 | 0.003868 | 0.006734 | 0.000201 | 0.005435 | 0.014955 | 0.000677 | 0.000730 | 0.024344 | 0.002912 | 0.003640 |
| 29 | 0.001595 | 0.000730 | 0.002606 | 0.002606 | 0.004904 | 0.000344 | 0.002609 | 0.009023 | 0.000533 | 0.000653 | 0.025065 | 0.002335 | 0.003493 |
| 30 | 0.011962 | 0.005354 | 0.012297 | 0.012297 | 0.017635 | 0.000280 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Liberty County 2026 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.055821 | 0.052213 | 0.042145 | 0.042145 | 0.053311 | 0.053311 | 0.053311 | 0.055878 | 0.107326 | 0.108951 | 0.055878 | 0.054796 | 0.068825 |
| 1 | 0.049442 | 0.074386 | 0.057456 | 0.057456 | 0.053213 | 0.053082 | 0.053192 | 0.055727 | 0.098838 | 0.103650 | 0.056089 | 0.056698 | 0.059543 |
| 2 | 0.050239 | 0.072547 | 0.046869 | 0.046869 | 0.053415 | 0.053131 | 0.053387 | 0.055943 | 0.113632 | 0.111268 | 0.056737 | 0.044354 | 0.047903 |
| 3 | 0.063796 | 0.068085 | 0.038317 | 0.038317 | 0.054397 | 0.054004 | 0.054308 | 0.056503 | 0.089706 | 0.085755 | 0.058147 | 0.053668 | 0.060675 |
| 4 | 0.047049 | 0.074602 | 0.043652 | 0.043652 | 0.054744 | 0.054257 | 0.054641 | 0.056502 | 0.101333 | 0.102451 | 0.058545 | 0.064806 | 0.071965 |
| 5 | 0.043062 | 0.065895 | 0.047113 | 0.047113 | 0.051675 | 0.051124 | 0.051612 | 0.054469 | 0.056427 | 0.056032 | 0.056986 | 0.056252 | 0.057263 |
| 6 | 0.045455 | 0.057864 | 0.041575 | 0.041575 | 0.051827 | 0.051090 | 0.051839 | 0.054374 | 0.053431 | 0.050813 | 0.057096 | 0.057525 | 0.058116 |
| 7 | 0.040670 | 0.050023 | 0.036974 | 0.036974 | 0.052672 | 0.051595 | 0.052695 | 0.054749 | 0.069221 | 0.071436 | 0.058059 | 0.063625 | 0.060032 |
| 8 | 0.034290 | 0.043182 | 0.038236 | 0.038236 | 0.048125 | 0.046622 | 0.047904 | 0.050848 | 0.048059 | 0.048826 | 0.055022 | 0.032744 | 0.030871 |
| 9 | 0.029506 | 0.038017 | 0.030499 | 0.030499 | 0.064014 | 0.070939 | 0.067696 | 0.026131 | 0.017683 | 0.017043 | 0.015178 | 0.021855 | 0.019997 |
| 10 | 0.059011 | 0.033853 | 0.027201 | 0.027201 | 0.059196 | 0.066851 | 0.059289 | 0.026395 | 0.017940 | 0.016190 | 0.015220 | 0.028546 | 0.027428 |
| 11 | 0.055821 | 0.049455 | 0.050533 | 0.050533 | 0.050025 | 0.053616 | 0.055111 | 0.030946 | 0.044072 | 0.041381 | 0.015055 | 0.026198 | 0.024805 |
| 12 | 0.060606 | 0.052808 | 0.050330 | 0.050330 | 0.045285 | 0.051800 | 0.050126 | 0.026719 | 0.028590 | 0.027061 | 0.013710 | 0.087920 | 0.078722 |
| 13 | 0.057416 | 0.044885 | 0.049638 | 0.049638 | 0.027519 | 0.037038 | 0.026572 | 0.022762 | 0.030257 | 0.030204 | 0.016287 | 0.056383 | 0.050902 |
| 14 | 0.055024 | 0.042019 | 0.044425 | 0.044425 | 0.023114 | 0.038227 | 0.025789 | 0.022114 | 0.023951 | 0.025697 | 0.008257 | 0.048250 | 0.043087 |
| 15 | 0.035088 | 0.031095 | 0.046991 | 0.046991 | 0.019768 | 0.029133 | 0.025323 | 0.015965 | 0.018410 | 0.019228 | 0.015311 | 0.028953 | 0.024421 |
| 16 | 0.044657 | 0.030555 | 0.047032 | 0.047032 | 0.020334 | 0.035504 | 0.022005 | 0.011312 | 0.014718 | 0.015792 | 0.002516 | 0.022498 | 0.021618 |
| 17 | 0.040670 | 0.026120 | 0.047968 | 0.047968 | 0.021884 | 0.032433 | 0.026359 | 0.020025 | 0.013232 | 0.013489 | 0.004349 | 0.018760 | 0.016864 |
| 18 | 0.023126 | 0.021875 | 0.045566 | 0.045566 | 0.020946 | 0.027559 | 0.025198 | 0.016314 | 0.013138 | 0.013534 | 0.016009 | 0.025502 | 0.023545 |
| 19 | 0.025518 | 0.016954 | 0.034368 | 0.034368 | 0.020545 | 0.017950 | 0.020764 | 0.045336 | 0.010719 | 0.009828 | 0.026480 | 0.035354 | 0.032228 |
| 20 | 0.021531 | 0.014412 | 0.027486 | 0.027486 | 0.024052 | 0.014542 | 0.018668 | 0.035616 | 0.009528 | 0.009369 | 0.034700 | 0.027142 | 0.024374 |
| 21 | 0.007177 | 0.009978 | 0.020604 | 0.020604 | 0.013883 | 0.010189 | 0.015413 | 0.029179 | 0.003893 | 0.004506 | 0.026380 | 0.020163 | 0.018389 |
| 22 | 0.015152 | 0.006976 | 0.019627 | 0.019627 | 0.012940 | 0.010052 | 0.016058 | 0.023923 | 0.004563 | 0.004678 | 0.040035 | 0.013407 | 0.012671 |
| 23 | 0.006380 | 0.004759 | 0.013071 | 0.013071 | 0.015951 | 0.009652 | 0.011191 | 0.025391 | 0.002344 | 0.002323 | 0.029321 | 0.012108 | 0.012375 |
| 24 | 0.007974 | 0.004516 | 0.013519 | 0.013519 | 0.014005 | 0.008408 | 0.012497 | 0.022116 | 0.002225 | 0.002388 | 0.026858 | 0.012069 | 0.011774 |
| 25 | 0.007974 | 0.002839 | 0.010099 | 0.010099 | 0.015337 | 0.007281 | 0.013322 | 0.022806 | 0.001247 | 0.001414 | 0.017266 | 0.007491 | 0.008079 |
| 26 | 0.001595 | 0.001622 | 0.005782 | 0.005782 | 0.016979 | 0.004626 | 0.011010 | 0.026631 | 0.001003 | 0.001073 | 0.031264 | 0.005785 | 0.006273 |
| 27 | 0.000797 | 0.001325 | 0.004153 | 0.004153 | 0.009554 | 0.002789 | 0.005589 | 0.021048 | 0.000740 | 0.000713 | 0.047300 | 0.003739 | 0.003870 |
| 28 | 0.001595 | 0.001055 | 0.003868 | 0.003868 | 0.007379 | 0.001402 | 0.004990 | 0.012815 | 0.000677 | 0.000730 | 0.020905 | 0.002912 | 0.003640 |
| 29 | 0.001595 | 0.000730 | 0.002606 | 0.002606 | 0.006276 | 0.000575 | 0.004078 | 0.008047 | 0.000533 | 0.000653 | 0.033963 | 0.002335 | 0.003493 |
| 30 | 0.011962 | 0.005354 | 0.012297 | 0.012297 | 0.017635 | 0.001218 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Liberty County 2027 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.055821 | 0.052213 | 0.042145 | 0.042145 | 0.052770 | 0.052770 | 0.052770 | 0.055385 | 0.107326 | 0.108951 | 0.055385 | 0.054796 | 0.068825 |
| 1 | 0.049442 | 0.074386 | 0.057456 | 0.057456 | 0.052814 | 0.052631 | 0.052756 | 0.055139 | 0.098838 | 0.103650 | 0.056488 | 0.056698 | 0.059543 |
| 2 | 0.050239 | 0.072547 | 0.046869 | 0.046869 | 0.052718 | 0.052406 | 0.052638 | 0.054991 | 0.113632 | 0.111268 | 0.056702 | 0.044354 | 0.047903 |
| 3 | 0.063796 | 0.068085 | 0.038317 | 0.038317 | 0.052918 | 0.052454 | 0.052831 | 0.055204 | 0.089706 | 0.085755 | 0.057356 | 0.053668 | 0.060675 |
| 4 | 0.047049 | 0.074602 | 0.043652 | 0.043652 | 0.053891 | 0.053316 | 0.053743 | 0.055756 | 0.101333 | 0.102451 | 0.058781 | 0.064806 | 0.071965 |
| 5 | 0.043062 | 0.065895 | 0.047113 | 0.047113 | 0.053660 | 0.052939 | 0.053478 | 0.055275 | 0.056427 | 0.056032 | 0.058720 | 0.056252 | 0.057263 |
| 6 | 0.045455 | 0.057864 | 0.041575 | 0.041575 | 0.050110 | 0.049293 | 0.049951 | 0.052822 | 0.053431 | 0.050813 | 0.056704 | 0.057525 | 0.058116 |
| 7 | 0.040670 | 0.050023 | 0.036974 | 0.036974 | 0.050257 | 0.049260 | 0.050171 | 0.052730 | 0.069221 | 0.071436 | 0.056813 | 0.063625 | 0.060032 |
| 8 | 0.034290 | 0.043182 | 0.038236 | 0.038236 | 0.050525 | 0.049151 | 0.050427 | 0.052628 | 0.048059 | 0.048826 | 0.057311 | 0.032744 | 0.030871 |
| 9 | 0.029506 | 0.038017 | 0.030499 | 0.030499 | 0.046163 | 0.044413 | 0.045842 | 0.048878 | 0.017683 | 0.017043 | 0.054314 | 0.021855 | 0.019997 |
| 10 | 0.059011 | 0.033853 | 0.027201 | 0.027201 | 0.061404 | 0.067579 | 0.064781 | 0.025119 | 0.017940 | 0.016190 | 0.014982 | 0.028546 | 0.027428 |
| 11 | 0.055821 | 0.049455 | 0.050533 | 0.050533 | 0.056161 | 0.062912 | 0.056092 | 0.025148 | 0.044072 | 0.041381 | 0.014903 | 0.026198 | 0.024805 |
| 12 | 0.060606 | 0.052808 | 0.050330 | 0.050330 | 0.047461 | 0.050457 | 0.052138 | 0.029484 | 0.028590 | 0.027061 | 0.014741 | 0.087920 | 0.078722 |
| 13 | 0.057416 | 0.044885 | 0.049638 | 0.049638 | 0.042489 | 0.048150 | 0.046877 | 0.025230 | 0.030257 | 0.030204 | 0.013316 | 0.056383 | 0.050902 |
| 14 | 0.055024 | 0.042019 | 0.044425 | 0.044425 | 0.025820 | 0.034428 | 0.024850 | 0.021493 | 0.023951 | 0.025697 | 0.015819 | 0.048250 | 0.043087 |
| 15 | 0.035088 | 0.031095 | 0.046991 | 0.046991 | 0.021687 | 0.035534 | 0.024118 | 0.020881 | 0.018410 | 0.019228 | 0.008020 | 0.028953 | 0.024421 |
| 16 | 0.044657 | 0.030555 | 0.047032 | 0.047032 | 0.018340 | 0.026744 | 0.023407 | 0.014939 | 0.014718 | 0.015792 | 0.014749 | 0.022498 | 0.021618 |
| 17 | 0.040670 | 0.026120 | 0.047968 | 0.047968 | 0.018865 | 0.032592 | 0.020340 | 0.010585 | 0.013232 | 0.013489 | 0.002423 | 0.018760 | 0.016864 |
| 18 | 0.023126 | 0.021875 | 0.045566 | 0.045566 | 0.020074 | 0.029399 | 0.024077 | 0.018568 | 0.013138 | 0.013534 | 0.004155 | 0.025502 | 0.023545 |
| 19 | 0.025518 | 0.016954 | 0.034368 | 0.034368 | 0.019213 | 0.024981 | 0.023017 | 0.015126 | 0.010719 | 0.009828 | 0.015295 | 0.035354 | 0.032228 |
| 20 | 0.021531 | 0.014412 | 0.027486 | 0.027486 | 0.018630 | 0.016064 | 0.018740 | 0.041651 | 0.009528 | 0.009369 | 0.025089 | 0.027142 | 0.024374 |
| 21 | 0.007177 | 0.009978 | 0.020604 | 0.020604 | 0.021810 | 0.013014 | 0.016849 | 0.032722 | 0.003893 | 0.004506 | 0.032878 | 0.020163 | 0.018389 |
| 22 | 0.015152 | 0.006976 | 0.019627 | 0.019627 | 0.012589 | 0.009118 | 0.013911 | 0.026807 | 0.004563 | 0.004678 | 0.024995 | 0.013407 | 0.012671 |
| 23 | 0.006380 | 0.004759 | 0.013071 | 0.013071 | 0.011598 | 0.008880 | 0.014318 | 0.021775 | 0.002344 | 0.002323 | 0.037614 | 0.012108 | 0.012375 |
| 24 | 0.007974 | 0.004516 | 0.013519 | 0.013519 | 0.014297 | 0.008526 | 0.009979 | 0.023111 | 0.002225 | 0.002388 | 0.027548 | 0.012069 | 0.011774 |
| 25 | 0.007974 | 0.002839 | 0.010099 | 0.010099 | 0.012553 | 0.007427 | 0.011144 | 0.020130 | 0.001247 | 0.001414 | 0.025235 | 0.007491 | 0.008079 |
| 26 | 0.001595 | 0.001622 | 0.005782 | 0.005782 | 0.013586 | 0.006348 | 0.011734 | 0.020564 | 0.001003 | 0.001073 | 0.016085 | 0.005785 | 0.006273 |
| 27 | 0.000797 | 0.001325 | 0.004153 | 0.004153 | 0.015041 | 0.004033 | 0.009698 | 0.024014 | 0.000740 | 0.000713 | 0.029126 | 0.003739 | 0.003870 |
| 28 | 0.001595 | 0.001055 | 0.003868 | 0.003868 | 0.008463 | 0.002432 | 0.004923 | 0.018979 | 0.000677 | 0.000730 | 0.044065 | 0.002912 | 0.003640 |
| 29 | 0.001595 | 0.000730 | 0.002606 | 0.002606 | 0.006459 | 0.001206 | 0.004341 | 0.011447 | 0.000533 | 0.000653 | 0.019310 | 0.002335 | 0.003493 |
| 30 | 0.011962 | 0.005354 | 0.012297 | 0.012297 | 0.017635 | 0.001542 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Montgomery County 2011 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.060102 | 0.106494 | 0.079624 | 0.079624 | 0.036180 | 0.074697 | 0.043899 | 0.020412 | 0.107326 | 0.108951 | 0.017572 | 0.054796 | 0.068825 |
| 1 | 0.066549 | 0.098530 | 0.076806 | 0.076806 | 0.039841 | 0.101513 | 0.042214 | 0.015110 | 0.098838 | 0.103650 | 0.002979 | 0.056698 | 0.059543 |
| 2 | 0.058230 | 0.081980 | 0.056214 | 0.056214 | 0.046623 | 0.104812 | 0.055843 | 0.028331 | 0.113632 | 0.111268 | 0.005313 | 0.044354 | 0.047903 |
| 3 | 0.068317 | 0.080777 | 0.055472 | 0.055472 | 0.049281 | 0.102921 | 0.059585 | 0.025227 | 0.089706 | 0.085755 | 0.020619 | 0.053668 | 0.060675 |
| 4 | 0.053135 | 0.082808 | 0.056362 | 0.056362 | 0.052966 | 0.076456 | 0.054774 | 0.076490 | 0.101333 | 0.102451 | 0.035762 | 0.064806 | 0.071965 |
| 5 | 0.060726 | 0.072633 | 0.059676 | 0.059676 | 0.068397 | 0.072053 | 0.055227 | 0.064970 | 0.056427 | 0.056032 | 0.048854 | 0.056252 | 0.057263 |
| 6 | 0.056463 | 0.067981 | 0.049253 | 0.049253 | 0.042648 | 0.057371 | 0.050452 | 0.056933 | 0.053431 | 0.050813 | 0.038874 | 0.057525 | 0.058116 |
| 7 | 0.051159 | 0.054177 | 0.041543 | 0.041543 | 0.042736 | 0.064267 | 0.058689 | 0.049088 | 0.069221 | 0.071436 | 0.060535 | 0.063625 | 0.060032 |
| 8 | 0.028803 | 0.043392 | 0.039083 | 0.039083 | 0.057372 | 0.070033 | 0.045203 | 0.055546 | 0.048059 | 0.048826 | 0.046135 | 0.032744 | 0.030871 |
| 9 | 0.024436 | 0.036786 | 0.033685 | 0.033685 | 0.054751 | 0.068493 | 0.055453 | 0.052116 | 0.017683 | 0.017043 | 0.044240 | 0.021855 | 0.019997 |
| 10 | 0.052927 | 0.029062 | 0.025809 | 0.025809 | 0.065557 | 0.068653 | 0.065744 | 0.057687 | 0.017940 | 0.016190 | 0.029414 | 0.028546 | 0.027428 |
| 11 | 0.046584 | 0.040771 | 0.045180 | 0.045180 | 0.078557 | 0.049889 | 0.060342 | 0.072218 | 0.044072 | 0.041381 | 0.055786 | 0.026198 | 0.024805 |
| 12 | 0.062494 | 0.037624 | 0.045799 | 0.045799 | 0.047578 | 0.034391 | 0.034339 | 0.060105 | 0.028590 | 0.027061 | 0.086656 | 0.087920 | 0.078722 |
| 13 | 0.051055 | 0.030082 | 0.041770 | 0.041770 | 0.039627 | 0.019471 | 0.033557 | 0.038712 | 0.030257 | 0.030204 | 0.039532 | 0.056383 | 0.050902 |
| 14 | 0.045336 | 0.026070 | 0.035821 | 0.035821 | 0.036599 | 0.009178 | 0.030650 | 0.026002 | 0.023951 | 0.025697 | 0.066825 | 0.048250 | 0.043087 |
| 15 | 0.031923 | 0.022208 | 0.038412 | 0.038412 | 0.029292 | 0.013218 | 0.027866 | 0.034289 | 0.018410 | 0.019228 | 0.035417 | 0.028953 | 0.024421 |
| 16 | 0.038578 | 0.018665 | 0.035159 | 0.035159 | 0.030064 | 0.002472 | 0.031547 | 0.039908 | 0.014718 | 0.015792 | 0.039586 | 0.022498 | 0.021618 |
| 17 | 0.028907 | 0.015398 | 0.035080 | 0.035080 | 0.023718 | 0.004862 | 0.016693 | 0.025686 | 0.013232 | 0.013489 | 0.041853 | 0.018760 | 0.016864 |
| 18 | 0.021628 | 0.012350 | 0.032402 | 0.032402 | 0.021178 | 0.000730 | 0.020301 | 0.020470 | 0.013138 | 0.013534 | 0.025183 | 0.025502 | 0.023545 |
| 19 | 0.017365 | 0.009965 | 0.024282 | 0.024282 | 0.013178 | 0.001112 | 0.018896 | 0.016540 | 0.010719 | 0.009828 | 0.024551 | 0.035354 | 0.032228 |
| 20 | 0.013622 | 0.007440 | 0.018456 | 0.018456 | 0.011799 | 0.000936 | 0.024538 | 0.021137 | 0.009528 | 0.009369 | 0.016394 | 0.027142 | 0.024374 |
| 21 | 0.010606 | 0.005373 | 0.012996 | 0.012996 | 0.017000 | 0.001181 | 0.026242 | 0.024395 | 0.003893 | 0.004506 | 0.025289 | 0.020163 | 0.018389 |
| 22 | 0.007175 | 0.003961 | 0.013048 | 0.013048 | 0.021289 | 0.000616 | 0.013673 | 0.017998 | 0.004563 | 0.004678 | 0.031470 | 0.013407 | 0.012671 |
| 23 | 0.004783 | 0.002340 | 0.008626 | 0.008626 | 0.013982 | 0.000249 | 0.014528 | 0.019271 | 0.002344 | 0.002323 | 0.028159 | 0.012108 | 0.012375 |
| 24 | 0.005407 | 0.001992 | 0.008068 | 0.008068 | 0.009457 | 0.000070 | 0.013551 | 0.017751 | 0.002225 | 0.002388 | 0.025783 | 0.012069 | 0.011774 |
| 25 | 0.004575 | 0.001331 | 0.006184 | 0.006184 | 0.007992 | 0.000024 | 0.010508 | 0.012854 | 0.001247 | 0.001414 | 0.015597 | 0.007491 | 0.008079 |
| 26 | 0.003327 | 0.001128 | 0.004317 | 0.004317 | 0.008237 | 0.000050 | 0.007903 | 0.012188 | 0.001003 | 0.001073 | 0.016256 | 0.005785 | 0.006273 |
| 27 | 0.001976 | 0.000841 | 0.003114 | 0.003114 | 0.006363 | 0.000037 | 0.006810 | 0.010137 | 0.000740 | 0.000713 | 0.015723 | 0.003739 | 0.003870 |
| 28 | 0.001144 | 0.000778 | 0.002355 | 0.002355 | 0.005349 | 0.000027 | 0.005974 | 0.008018 | 0.000677 | 0.000730 | 0.014339 | 0.002912 | 0.003640 |
| 29 | 0.001664 | 0.000733 | 0.002259 | 0.002259 | 0.004757 | 0.000020 | 0.004936 | 0.006995 | 0.000533 | 0.000653 | 0.014229 | 0.002335 | 0.003493 |
| 30 | 0.021004 | 0.006328 | 0.013144 | 0.013144 | 0.017635 | 0.000198 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Montgomery County 2017 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.060102 | 0.106494 | 0.079624 | 0.079624 | 0.078824 | 0.091142 | 0.083978 | 0.031614 | 0.107326 | 0.108951 | 0.016664 | 0.054796 | 0.068825 |
| 1 | 0.066549 | 0.098530 | 0.076806 | 0.076806 | 0.075667 | 0.090093 | 0.076580 | 0.032820 | 0.098838 | 0.103650 | 0.017093 | 0.056698 | 0.059543 |
| 2 | 0.058230 | 0.081980 | 0.056214 | 0.056214 | 0.067199 | 0.077034 | 0.075099 | 0.039904 | 0.113632 | 0.111268 | 0.017428 | 0.044354 | 0.047903 |
| 3 | 0.068317 | 0.080777 | 0.055472 | 0.055472 | 0.063959 | 0.079629 | 0.072132 | 0.035734 | 0.089706 | 0.085755 | 0.016351 | 0.053668 | 0.060675 |
| 4 | 0.053135 | 0.082808 | 0.056362 | 0.056362 | 0.041394 | 0.062045 | 0.040955 | 0.031878 | 0.101333 | 0.102451 | 0.020170 | 0.064806 | 0.071965 |
| 5 | 0.060726 | 0.072633 | 0.059676 | 0.059676 | 0.036596 | 0.068674 | 0.042028 | 0.032138 | 0.056427 | 0.056032 | 0.010539 | 0.056252 | 0.057263 |
| 6 | 0.056463 | 0.067981 | 0.049253 | 0.049253 | 0.032532 | 0.055132 | 0.043047 | 0.023869 | 0.053431 | 0.050813 | 0.019997 | 0.057525 | 0.058116 |
| 7 | 0.051159 | 0.054177 | 0.041543 | 0.041543 | 0.035230 | 0.072004 | 0.039560 | 0.017559 | 0.069221 | 0.071436 | 0.003389 | 0.063625 | 0.060032 |
| 8 | 0.028803 | 0.043392 | 0.039083 | 0.039083 | 0.039392 | 0.069145 | 0.049382 | 0.031958 | 0.048059 | 0.048826 | 0.005994 | 0.032744 | 0.030871 |
| 9 | 0.024436 | 0.036786 | 0.033685 | 0.033685 | 0.039680 | 0.062851 | 0.049899 | 0.027028 | 0.017683 | 0.017043 | 0.022758 | 0.021855 | 0.019997 |
| 10 | 0.052927 | 0.029062 | 0.025809 | 0.025809 | 0.041020 | 0.044016 | 0.043545 | 0.078002 | 0.017940 | 0.016190 | 0.038819 | 0.028546 | 0.027428 |
| 11 | 0.046584 | 0.040771 | 0.045180 | 0.045180 | 0.050566 | 0.038149 | 0.041402 | 0.063658 | 0.044072 | 0.041381 | 0.052497 | 0.026198 | 0.024805 |
| 12 | 0.062494 | 0.037624 | 0.045799 | 0.045799 | 0.030779 | 0.028742 | 0.036224 | 0.054189 | 0.028590 | 0.027061 | 0.041177 | 0.087920 | 0.078722 |
| 13 | 0.051055 | 0.030082 | 0.041770 | 0.041770 | 0.029860 | 0.029906 | 0.039417 | 0.045716 | 0.030257 | 0.030204 | 0.063961 | 0.056383 | 0.050902 |
| 14 | 0.045336 | 0.026070 | 0.035821 | 0.035821 | 0.038819 | 0.030838 | 0.029111 | 0.050432 | 0.023951 | 0.025697 | 0.048354 | 0.048250 | 0.043087 |
| 15 | 0.031923 | 0.022208 | 0.038412 | 0.038412 | 0.035967 | 0.028980 | 0.034482 | 0.045640 | 0.018410 | 0.019228 | 0.045680 | 0.028953 | 0.024421 |
| 16 | 0.038578 | 0.018665 | 0.035159 | 0.035159 | 0.041037 | 0.026572 | 0.038448 | 0.048454 | 0.014718 | 0.015792 | 0.030061 | 0.022498 | 0.021618 |
| 17 | 0.028907 | 0.015398 | 0.035080 | 0.035080 | 0.047968 | 0.018212 | 0.033726 | 0.058821 | 0.013232 | 0.013489 | 0.056177 | 0.018760 | 0.016864 |
| 18 | 0.021628 | 0.012350 | 0.032402 | 0.032402 | 0.028106 | 0.011607 | 0.017894 | 0.047873 | 0.013138 | 0.013534 | 0.087043 | 0.025502 | 0.023545 |
| 19 | 0.017365 | 0.009965 | 0.024282 | 0.024282 | 0.022635 | 0.006198 | 0.016732 | 0.030019 | 0.010719 | 0.009828 | 0.039384 | 0.035354 | 0.032228 |
| 20 | 0.013622 | 0.007440 | 0.018456 | 0.018456 | 0.020051 | 0.002680 | 0.014288 | 0.019410 | 0.009528 | 0.009369 | 0.065558 | 0.027142 | 0.024374 |
| 21 | 0.010606 | 0.005373 | 0.012996 | 0.012996 | 0.015338 | 0.003551 | 0.012169 | 0.024501 | 0.003893 | 0.004506 | 0.034386 | 0.020163 | 0.018389 |
| 22 | 0.007175 | 0.003961 | 0.013048 | 0.013048 | 0.015262 | 0.000636 | 0.013276 | 0.027421 | 0.004563 | 0.004678 | 0.037837 | 0.013407 | 0.012671 |
| 23 | 0.004783 | 0.002340 | 0.008626 | 0.008626 | 0.011438 | 0.001134 | 0.006577 | 0.016877 | 0.002344 | 0.002323 | 0.039588 | 0.012108 | 0.012375 |
| 24 | 0.005407 | 0.001992 | 0.008068 | 0.008068 | 0.009950 | 0.000160 | 0.007616 | 0.013002 | 0.002225 | 0.002388 | 0.023454 | 0.012069 | 0.011774 |
| 25 | 0.004575 | 0.001331 | 0.006184 | 0.006184 | 0.006052 | 0.000234 | 0.006794 | 0.010264 | 0.001247 | 0.001414 | 0.022808 | 0.007491 | 0.008079 |
| 26 | 0.003327 | 0.001128 | 0.004317 | 0.004317 | 0.005200 | 0.000182 | 0.008420 | 0.012742 | 0.001003 | 0.001073 | 0.015103 | 0.005785 | 0.006273 |
| 27 | 0.001976 | 0.000841 | 0.003114 | 0.003114 | 0.007295 | 0.000215 | 0.008562 | 0.014199 | 0.000740 | 0.000713 | 0.022934 | 0.003739 | 0.003870 |
| 28 | 0.001144 | 0.000778 | 0.002355 | 0.002355 | 0.008928 | 0.000108 | 0.004271 | 0.010231 | 0.000677 | 0.000730 | 0.028466 | 0.002912 | 0.003640 |
| 29 | 0.001664 | 0.000733 | 0.002259 | 0.002259 | 0.005620 | 0.000040 | 0.004325 | 0.010633 | 0.000533 | 0.000653 | 0.025257 | 0.002335 | 0.003493 |
| 30 | 0.021004 | 0.006328 | 0.013144 | 0.013144 | 0.017635 | 0.000091 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Montgomery County 2018 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.060102 | 0.106494 | 0.079624 | 0.079624 | 0.056764 | 0.056764 | 0.056764 | 0.059441 | 0.107326 | 0.108951 | 0.059441 | 0.054796 | 0.068825 |
| 1 | 0.066549 | 0.098530 | 0.076806 | 0.076806 | 0.078327 | 0.090363 | 0.083431 | 0.031402 | 0.098838 | 0.103650 | 0.016783 | 0.056698 | 0.059543 |
| 2 | 0.058230 | 0.081980 | 0.056214 | 0.056214 | 0.075191 | 0.089323 | 0.076081 | 0.032600 | 0.113632 | 0.111268 | 0.017214 | 0.044354 | 0.047903 |
| 3 | 0.068317 | 0.080777 | 0.055472 | 0.055472 | 0.066776 | 0.076375 | 0.074609 | 0.039636 | 0.089706 | 0.085755 | 0.017551 | 0.053668 | 0.060675 |
| 4 | 0.053135 | 0.082808 | 0.056362 | 0.056362 | 0.063556 | 0.078948 | 0.071662 | 0.035495 | 0.101333 | 0.102451 | 0.016467 | 0.064806 | 0.071965 |
| 5 | 0.060726 | 0.072633 | 0.059676 | 0.059676 | 0.040595 | 0.060250 | 0.040093 | 0.031371 | 0.056427 | 0.056032 | 0.020168 | 0.056252 | 0.057263 |
| 6 | 0.056463 | 0.067981 | 0.049253 | 0.049253 | 0.035413 | 0.065287 | 0.040533 | 0.031332 | 0.053431 | 0.050813 | 0.010463 | 0.057525 | 0.058116 |
| 7 | 0.051159 | 0.054177 | 0.041543 | 0.041543 | 0.031480 | 0.052413 | 0.041516 | 0.023270 | 0.069221 | 0.071436 | 0.019852 | 0.063625 | 0.060032 |
| 8 | 0.028803 | 0.043392 | 0.039083 | 0.039083 | 0.033634 | 0.066986 | 0.037578 | 0.016956 | 0.048059 | 0.048826 | 0.003340 | 0.032744 | 0.030871 |
| 9 | 0.024436 | 0.036786 | 0.033685 | 0.033685 | 0.037606 | 0.064326 | 0.046908 | 0.030862 | 0.017683 | 0.017043 | 0.005908 | 0.021855 | 0.019997 |
| 10 | 0.052927 | 0.029062 | 0.025809 | 0.025809 | 0.037881 | 0.058471 | 0.047399 | 0.026101 | 0.017940 | 0.016190 | 0.022431 | 0.028546 | 0.027428 |
| 11 | 0.046584 | 0.040771 | 0.045180 | 0.045180 | 0.038627 | 0.040052 | 0.040731 | 0.074609 | 0.044072 | 0.041381 | 0.037983 | 0.026198 | 0.024805 |
| 12 | 0.062494 | 0.037624 | 0.045799 | 0.045799 | 0.047616 | 0.034712 | 0.038727 | 0.060889 | 0.028590 | 0.027061 | 0.051366 | 0.087920 | 0.078722 |
| 13 | 0.051055 | 0.030082 | 0.041770 | 0.041770 | 0.028583 | 0.025567 | 0.033357 | 0.051333 | 0.030257 | 0.030204 | 0.039996 | 0.056383 | 0.050902 |
| 14 | 0.045336 | 0.026070 | 0.035821 | 0.035821 | 0.027729 | 0.026602 | 0.036297 | 0.043307 | 0.023951 | 0.025697 | 0.062126 | 0.048250 | 0.043087 |
| 15 | 0.031923 | 0.022208 | 0.038412 | 0.038412 | 0.036049 | 0.027432 | 0.026806 | 0.047774 | 0.018410 | 0.019228 | 0.046967 | 0.028953 | 0.024421 |
| 16 | 0.038578 | 0.018665 | 0.035159 | 0.035159 | 0.032933 | 0.025188 | 0.031252 | 0.042815 | 0.014718 | 0.015792 | 0.044042 | 0.022498 | 0.021618 |
| 17 | 0.028907 | 0.015398 | 0.035080 | 0.035080 | 0.037575 | 0.023095 | 0.034847 | 0.045455 | 0.013232 | 0.013489 | 0.028983 | 0.018760 | 0.016864 |
| 18 | 0.021628 | 0.012350 | 0.032402 | 0.032402 | 0.043298 | 0.015458 | 0.030076 | 0.054639 | 0.013138 | 0.013534 | 0.053761 | 0.025502 | 0.023545 |
| 19 | 0.017365 | 0.009965 | 0.024282 | 0.024282 | 0.025369 | 0.009852 | 0.015958 | 0.044470 | 0.010719 | 0.009828 | 0.083300 | 0.035354 | 0.032228 |
| 20 | 0.013622 | 0.007440 | 0.018456 | 0.018456 | 0.020137 | 0.005134 | 0.014678 | 0.027609 | 0.009528 | 0.009369 | 0.037408 | 0.027142 | 0.024374 |
| 21 | 0.010606 | 0.005373 | 0.012996 | 0.012996 | 0.017838 | 0.002220 | 0.012535 | 0.017851 | 0.003893 | 0.004506 | 0.062269 | 0.020163 | 0.018389 |
| 22 | 0.007175 | 0.003961 | 0.013048 | 0.013048 | 0.013645 | 0.002941 | 0.010676 | 0.022533 | 0.004563 | 0.004678 | 0.032661 | 0.013407 | 0.012671 |
| 23 | 0.004783 | 0.002340 | 0.008626 | 0.008626 | 0.013379 | 0.000514 | 0.011454 | 0.024967 | 0.002344 | 0.002323 | 0.035668 | 0.012108 | 0.012375 |
| 24 | 0.005407 | 0.001992 | 0.008068 | 0.008068 | 0.010027 | 0.000916 | 0.005674 | 0.015367 | 0.002225 | 0.002388 | 0.037319 | 0.012069 | 0.011774 |
| 25 | 0.004575 | 0.001331 | 0.006184 | 0.006184 | 0.008723 | 0.000129 | 0.006571 | 0.011838 | 0.001247 | 0.001414 | 0.022110 | 0.007491 | 0.008079 |
| 26 | 0.003327 | 0.001128 | 0.004317 | 0.004317 | 0.005227 | 0.000184 | 0.005762 | 0.009251 | 0.001003 | 0.001073 | 0.021337 | 0.005785 | 0.006273 |
| 27 | 0.001976 | 0.000841 | 0.003114 | 0.003114 | 0.004490 | 0.000144 | 0.007142 | 0.011484 | 0.000740 | 0.000713 | 0.014129 | 0.003739 | 0.003870 |
| 28 | 0.001144 | 0.000778 | 0.002355 | 0.002355 | 0.006300 | 0.000169 | 0.007262 | 0.012798 | 0.000677 | 0.000730 | 0.021455 | 0.002912 | 0.003640 |
| 29 | 0.001664 | 0.000733 | 0.002259 | 0.002259 | 0.007594 | 0.000083 | 0.003561 | 0.009127 | 0.000533 | 0.000653 | 0.026427 | 0.002335 | 0.003493 |
| 30 | 0.021004 | 0.006328 | 0.013144 | 0.013144 | 0.017635 | 0.000101 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Montgomery County 2020 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.060102 | 0.106494 | 0.079624 | 0.079624 | 0.056623 | 0.056623 | 0.056623 | 0.059505 | 0.107326 | 0.108951 | 0.059505 | 0.054796 | 0.068825 |
| 1 | 0.066549 | 0.098530 | 0.076806 | 0.076806 | 0.058906 | 0.058781 | 0.059000 | 0.060992 | 0.098838 | 0.103650 | 0.061446 | 0.056698 | 0.059543 |
| 2 | 0.058230 | 0.081980 | 0.056214 | 0.056214 | 0.055787 | 0.055441 | 0.055725 | 0.058218 | 0.113632 | 0.111268 | 0.059616 | 0.044354 | 0.047903 |
| 3 | 0.068317 | 0.080777 | 0.055472 | 0.055472 | 0.076979 | 0.088257 | 0.081903 | 0.030756 | 0.089706 | 0.085755 | 0.016832 | 0.053668 | 0.060675 |
| 4 | 0.053135 | 0.082808 | 0.056362 | 0.056362 | 0.073896 | 0.087241 | 0.074688 | 0.031930 | 0.101333 | 0.102451 | 0.017265 | 0.064806 | 0.071965 |
| 5 | 0.060726 | 0.072633 | 0.059676 | 0.059676 | 0.064800 | 0.073271 | 0.072235 | 0.038481 | 0.056427 | 0.056032 | 0.017480 | 0.056252 | 0.057263 |
| 6 | 0.056463 | 0.067981 | 0.049253 | 0.049253 | 0.060109 | 0.072950 | 0.067439 | 0.033841 | 0.053431 | 0.050813 | 0.016168 | 0.057525 | 0.058116 |
| 7 | 0.051159 | 0.054177 | 0.041543 | 0.041543 | 0.037895 | 0.054587 | 0.037185 | 0.029629 | 0.069221 | 0.071436 | 0.019658 | 0.063625 | 0.060032 |
| 8 | 0.028803 | 0.043392 | 0.039083 | 0.039083 | 0.032631 | 0.058063 | 0.037061 | 0.029329 | 0.048059 | 0.048826 | 0.010126 | 0.032744 | 0.030871 |
| 9 | 0.024436 | 0.036786 | 0.033685 | 0.033685 | 0.028626 | 0.045687 | 0.037403 | 0.021577 | 0.017683 | 0.017043 | 0.019072 | 0.021855 | 0.019997 |
| 10 | 0.052927 | 0.029062 | 0.025809 | 0.025809 | 0.030584 | 0.058389 | 0.033855 | 0.015723 | 0.017940 | 0.016190 | 0.003209 | 0.028546 | 0.027428 |
| 11 | 0.046584 | 0.040771 | 0.045180 | 0.045180 | 0.033749 | 0.055020 | 0.041655 | 0.028360 | 0.044072 | 0.041381 | 0.005636 | 0.026198 | 0.024805 |
| 12 | 0.062494 | 0.037624 | 0.045799 | 0.045799 | 0.033542 | 0.048997 | 0.041464 | 0.023756 | 0.028590 | 0.027061 | 0.021238 | 0.087920 | 0.078722 |
| 13 | 0.051055 | 0.030082 | 0.041770 | 0.041770 | 0.033749 | 0.032921 | 0.035112 | 0.067292 | 0.030257 | 0.030204 | 0.035704 | 0.056383 | 0.050902 |
| 14 | 0.045336 | 0.026070 | 0.035821 | 0.035821 | 0.041041 | 0.027942 | 0.032880 | 0.054391 | 0.023951 | 0.025697 | 0.047926 | 0.048250 | 0.043087 |
| 15 | 0.031923 | 0.022208 | 0.038412 | 0.038412 | 0.024637 | 0.020580 | 0.028321 | 0.045855 | 0.018410 | 0.019228 | 0.037318 | 0.028953 | 0.024421 |
| 16 | 0.038578 | 0.018665 | 0.035159 | 0.035159 | 0.023580 | 0.020997 | 0.030362 | 0.038331 | 0.014718 | 0.015792 | 0.057546 | 0.022498 | 0.021618 |
| 17 | 0.028907 | 0.015398 | 0.035080 | 0.035080 | 0.030235 | 0.021194 | 0.022079 | 0.041875 | 0.013232 | 0.013489 | 0.043179 | 0.018760 | 0.016864 |
| 18 | 0.021628 | 0.012350 | 0.032402 | 0.032402 | 0.027245 | 0.019074 | 0.025355 | 0.037181 | 0.013138 | 0.013534 | 0.040195 | 0.025502 | 0.023545 |
| 19 | 0.017365 | 0.009965 | 0.024282 | 0.024282 | 0.030654 | 0.017111 | 0.027831 | 0.039087 | 0.010719 | 0.009828 | 0.026252 | 0.035354 | 0.032228 |
| 20 | 0.013622 | 0.007440 | 0.018456 | 0.018456 | 0.034835 | 0.011221 | 0.023655 | 0.046548 | 0.009528 | 0.009369 | 0.048337 | 0.027142 | 0.024374 |
| 21 | 0.010606 | 0.005373 | 0.012996 | 0.012996 | 0.020123 | 0.006993 | 0.012353 | 0.037509 | 0.003893 | 0.004506 | 0.074328 | 0.020163 | 0.018389 |
| 22 | 0.007175 | 0.003961 | 0.013048 | 0.013048 | 0.015973 | 0.003645 | 0.011362 | 0.023287 | 0.004563 | 0.004678 | 0.033379 | 0.013407 | 0.012671 |
| 23 | 0.004783 | 0.002340 | 0.008626 | 0.008626 | 0.013951 | 0.001543 | 0.009553 | 0.014916 | 0.002344 | 0.002323 | 0.055151 | 0.012108 | 0.012375 |
| 24 | 0.005407 | 0.001992 | 0.008068 | 0.008068 | 0.010520 | 0.001999 | 0.008005 | 0.018640 | 0.002225 | 0.002388 | 0.028706 | 0.012069 | 0.011774 |
| 25 | 0.004575 | 0.001331 | 0.006184 | 0.006184 | 0.010315 | 0.000349 | 0.008588 | 0.020653 | 0.001247 | 0.001414 | 0.031349 | 0.007491 | 0.008079 |
| 26 | 0.003327 | 0.001128 | 0.004317 | 0.004317 | 0.007620 | 0.000609 | 0.004188 | 0.012591 | 0.001003 | 0.001073 | 0.032556 | 0.005785 | 0.006273 |
| 27 | 0.001976 | 0.000841 | 0.003114 | 0.003114 | 0.006533 | 0.000084 | 0.004770 | 0.009602 | 0.000740 | 0.000713 | 0.019139 | 0.003739 | 0.003870 |
| 28 | 0.001144 | 0.000778 | 0.002355 | 0.002355 | 0.003915 | 0.000120 | 0.004184 | 0.007503 | 0.000677 | 0.000730 | 0.018470 | 0.002912 | 0.003640 |
| 29 | 0.001664 | 0.000733 | 0.002259 | 0.002259 | 0.003315 | 0.000091 | 0.005102 | 0.009226 | 0.000533 | 0.000653 | 0.012139 | 0.002335 | 0.003493 |
| 30 | 0.021004 | 0.006328 | 0.013144 | 0.013144 | 0.017635 | 0.000219 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Montgomery County 2023 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.060102 | 0.106494 | 0.079624 | 0.079624 | 0.055916 | 0.055916 | 0.055916 | 0.058180 | 0.107326 | 0.108951 | 0.058180 | 0.054796 | 0.068825 |
| 1 | 0.066549 | 0.098530 | 0.076806 | 0.076806 | 0.056272 | 0.056177 | 0.056259 | 0.058179 | 0.098838 | 0.103650 | 0.058578 | 0.056698 | 0.059543 |
| 2 | 0.058230 | 0.081980 | 0.056214 | 0.056214 | 0.053703 | 0.053595 | 0.053754 | 0.056574 | 0.113632 | 0.111268 | 0.057461 | 0.044354 | 0.047903 |
| 3 | 0.068317 | 0.080777 | 0.055472 | 0.055472 | 0.055079 | 0.054952 | 0.055275 | 0.057472 | 0.089706 | 0.085755 | 0.058467 | 0.053668 | 0.060675 |
| 4 | 0.053135 | 0.082808 | 0.056362 | 0.056362 | 0.057299 | 0.057046 | 0.057596 | 0.058908 | 0.101333 | 0.102451 | 0.060375 | 0.064806 | 0.071965 |
| 5 | 0.060726 | 0.072633 | 0.059676 | 0.059676 | 0.053587 | 0.052974 | 0.053667 | 0.055701 | 0.056427 | 0.056032 | 0.058115 | 0.056252 | 0.057263 |
| 6 | 0.056463 | 0.067981 | 0.049253 | 0.049253 | 0.072106 | 0.081694 | 0.076767 | 0.028881 | 0.053431 | 0.050813 | 0.016156 | 0.057525 | 0.058116 |
| 7 | 0.051159 | 0.054177 | 0.041543 | 0.041543 | 0.067500 | 0.078131 | 0.068119 | 0.029440 | 0.069221 | 0.071436 | 0.016327 | 0.063625 | 0.060032 |
| 8 | 0.028803 | 0.043392 | 0.039083 | 0.039083 | 0.057694 | 0.063477 | 0.064077 | 0.034826 | 0.048059 | 0.048826 | 0.016279 | 0.032744 | 0.030871 |
| 9 | 0.024436 | 0.036786 | 0.033685 | 0.033685 | 0.052840 | 0.062167 | 0.059003 | 0.030340 | 0.017683 | 0.017043 | 0.014941 | 0.021855 | 0.019997 |
| 10 | 0.052927 | 0.029062 | 0.025809 | 0.025809 | 0.032885 | 0.045715 | 0.032079 | 0.026323 | 0.017940 | 0.016190 | 0.018033 | 0.028546 | 0.027428 |
| 11 | 0.046584 | 0.040771 | 0.045180 | 0.045180 | 0.027950 | 0.047838 | 0.031525 | 0.025805 | 0.044072 | 0.041381 | 0.009215 | 0.026198 | 0.024805 |
| 12 | 0.062494 | 0.037624 | 0.045799 | 0.045799 | 0.024205 | 0.037017 | 0.031373 | 0.018806 | 0.028590 | 0.027061 | 0.017221 | 0.087920 | 0.078722 |
| 13 | 0.051055 | 0.030082 | 0.041770 | 0.041770 | 0.025189 | 0.045712 | 0.027598 | 0.013446 | 0.030257 | 0.030204 | 0.002852 | 0.056383 | 0.050902 |
| 14 | 0.045336 | 0.026070 | 0.035821 | 0.035821 | 0.027435 | 0.042348 | 0.033477 | 0.024021 | 0.023951 | 0.025697 | 0.004971 | 0.048250 | 0.043087 |
| 15 | 0.031923 | 0.022208 | 0.038412 | 0.038412 | 0.026908 | 0.037037 | 0.032845 | 0.019936 | 0.018410 | 0.019228 | 0.018594 | 0.028953 | 0.024421 |
| 16 | 0.038578 | 0.018665 | 0.035159 | 0.035159 | 0.026714 | 0.024469 | 0.027413 | 0.055915 | 0.014718 | 0.015792 | 0.031004 | 0.022498 | 0.021618 |
| 17 | 0.028907 | 0.015398 | 0.035080 | 0.035080 | 0.032058 | 0.020412 | 0.025303 | 0.044760 | 0.013232 | 0.013489 | 0.041292 | 0.018760 | 0.016864 |
| 18 | 0.021628 | 0.012350 | 0.032402 | 0.032402 | 0.018731 | 0.014509 | 0.021163 | 0.037012 | 0.013138 | 0.013534 | 0.031647 | 0.025502 | 0.023545 |
| 19 | 0.017365 | 0.009965 | 0.024282 | 0.024282 | 0.017689 | 0.014544 | 0.022359 | 0.030639 | 0.010719 | 0.009828 | 0.048417 | 0.035354 | 0.032228 |
| 20 | 0.013622 | 0.007440 | 0.018456 | 0.018456 | 0.022068 | 0.014159 | 0.015781 | 0.032824 | 0.009528 | 0.009369 | 0.035754 | 0.027142 | 0.024374 |
| 21 | 0.010606 | 0.005373 | 0.012996 | 0.012996 | 0.019618 | 0.012516 | 0.017856 | 0.028859 | 0.003893 | 0.004506 | 0.033019 | 0.020163 | 0.018389 |
| 22 | 0.007175 | 0.003961 | 0.013048 | 0.013048 | 0.021770 | 0.011016 | 0.019305 | 0.030050 | 0.004563 | 0.004678 | 0.021400 | 0.013407 | 0.012671 |
| 23 | 0.004783 | 0.002340 | 0.008626 | 0.008626 | 0.024396 | 0.007096 | 0.016162 | 0.035423 | 0.002344 | 0.002323 | 0.039074 | 0.012108 | 0.012375 |
| 24 | 0.005407 | 0.001992 | 0.008068 | 0.008068 | 0.013900 | 0.004343 | 0.008313 | 0.028262 | 0.002225 | 0.002388 | 0.059603 | 0.012069 | 0.011774 |
| 25 | 0.004575 | 0.001331 | 0.006184 | 0.006184 | 0.010880 | 0.002220 | 0.007530 | 0.017378 | 0.001247 | 0.001414 | 0.026560 | 0.007491 | 0.008079 |
| 26 | 0.003327 | 0.001128 | 0.004317 | 0.004317 | 0.009369 | 0.000923 | 0.006234 | 0.011017 | 0.001003 | 0.001073 | 0.043513 | 0.005785 | 0.006273 |
| 27 | 0.001976 | 0.000841 | 0.003114 | 0.003114 | 0.006966 | 0.001173 | 0.005145 | 0.013629 | 0.000740 | 0.000713 | 0.022466 | 0.003739 | 0.003870 |
| 28 | 0.001144 | 0.000778 | 0.002355 | 0.002355 | 0.006734 | 0.000201 | 0.005435 | 0.014955 | 0.000677 | 0.000730 | 0.024344 | 0.002912 | 0.003640 |
| 29 | 0.001664 | 0.000733 | 0.002259 | 0.002259 | 0.004904 | 0.000344 | 0.002609 | 0.009023 | 0.000533 | 0.000653 | 0.025065 | 0.002335 | 0.003493 |
| 30 | 0.021004 | 0.006328 | 0.013144 | 0.013144 | 0.017635 | 0.000280 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Montgomery County 2026 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.060102 | 0.106494 | 0.079624 | 0.079624 | 0.053311 | 0.053311 | 0.053311 | 0.055878 | 0.107326 | 0.108951 | 0.055878 | 0.054796 | 0.068825 |
| 1 | 0.066549 | 0.098530 | 0.076806 | 0.076806 | 0.053213 | 0.053082 | 0.053192 | 0.055727 | 0.098838 | 0.103650 | 0.056089 | 0.056698 | 0.059543 |
| 2 | 0.058230 | 0.081980 | 0.056214 | 0.056214 | 0.053415 | 0.053131 | 0.053387 | 0.055943 | 0.113632 | 0.111268 | 0.056737 | 0.044354 | 0.047903 |
| 3 | 0.068317 | 0.080777 | 0.055472 | 0.055472 | 0.054397 | 0.054004 | 0.054308 | 0.056503 | 0.089706 | 0.085755 | 0.058147 | 0.053668 | 0.060675 |
| 4 | 0.053135 | 0.082808 | 0.056362 | 0.056362 | 0.054744 | 0.054257 | 0.054641 | 0.056502 | 0.101333 | 0.102451 | 0.058545 | 0.064806 | 0.071965 |
| 5 | 0.060726 | 0.072633 | 0.059676 | 0.059676 | 0.051675 | 0.051124 | 0.051612 | 0.054469 | 0.056427 | 0.056032 | 0.056986 | 0.056252 | 0.057263 |
| 6 | 0.056463 | 0.067981 | 0.049253 | 0.049253 | 0.051827 | 0.051090 | 0.051839 | 0.054374 | 0.053431 | 0.050813 | 0.057096 | 0.057525 | 0.058116 |
| 7 | 0.051159 | 0.054177 | 0.041543 | 0.041543 | 0.052672 | 0.051595 | 0.052695 | 0.054749 | 0.069221 | 0.071436 | 0.058059 | 0.063625 | 0.060032 |
| 8 | 0.028803 | 0.043392 | 0.039083 | 0.039083 | 0.048125 | 0.046622 | 0.047904 | 0.050848 | 0.048059 | 0.048826 | 0.055022 | 0.032744 | 0.030871 |
| 9 | 0.024436 | 0.036786 | 0.033685 | 0.033685 | 0.064014 | 0.070939 | 0.067696 | 0.026131 | 0.017683 | 0.017043 | 0.015178 | 0.021855 | 0.019997 |
| 10 | 0.052927 | 0.029062 | 0.025809 | 0.025809 | 0.059196 | 0.066851 | 0.059289 | 0.026395 | 0.017940 | 0.016190 | 0.015220 | 0.028546 | 0.027428 |
| 11 | 0.046584 | 0.040771 | 0.045180 | 0.045180 | 0.050025 | 0.053616 | 0.055111 | 0.030946 | 0.044072 | 0.041381 | 0.015055 | 0.026198 | 0.024805 |
| 12 | 0.062494 | 0.037624 | 0.045799 | 0.045799 | 0.045285 | 0.051800 | 0.050126 | 0.026719 | 0.028590 | 0.027061 | 0.013710 | 0.087920 | 0.078722 |
| 13 | 0.051055 | 0.030082 | 0.041770 | 0.041770 | 0.027519 | 0.037038 | 0.026572 | 0.022762 | 0.030257 | 0.030204 | 0.016287 | 0.056383 | 0.050902 |
| 14 | 0.045336 | 0.026070 | 0.035821 | 0.035821 | 0.023114 | 0.038227 | 0.025789 | 0.022114 | 0.023951 | 0.025697 | 0.008257 | 0.048250 | 0.043087 |
| 15 | 0.031923 | 0.022208 | 0.038412 | 0.038412 | 0.019768 | 0.029133 | 0.025323 | 0.015965 | 0.018410 | 0.019228 | 0.015311 | 0.028953 | 0.024421 |
| 16 | 0.038578 | 0.018665 | 0.035159 | 0.035159 | 0.020334 | 0.035504 | 0.022005 | 0.011312 | 0.014718 | 0.015792 | 0.002516 | 0.022498 | 0.021618 |
| 17 | 0.028907 | 0.015398 | 0.035080 | 0.035080 | 0.021884 | 0.032433 | 0.026359 | 0.020025 | 0.013232 | 0.013489 | 0.004349 | 0.018760 | 0.016864 |
| 18 | 0.021628 | 0.012350 | 0.032402 | 0.032402 | 0.020946 | 0.027559 | 0.025198 | 0.016314 | 0.013138 | 0.013534 | 0.016009 | 0.025502 | 0.023545 |
| 19 | 0.017365 | 0.009965 | 0.024282 | 0.024282 | 0.020545 | 0.017950 | 0.020764 | 0.045336 | 0.010719 | 0.009828 | 0.026480 | 0.035354 | 0.032228 |
| 20 | 0.013622 | 0.007440 | 0.018456 | 0.018456 | 0.024052 | 0.014542 | 0.018668 | 0.035616 | 0.009528 | 0.009369 | 0.034700 | 0.027142 | 0.024374 |
| 21 | 0.010606 | 0.005373 | 0.012996 | 0.012996 | 0.013883 | 0.010189 | 0.015413 | 0.029179 | 0.003893 | 0.004506 | 0.026380 | 0.020163 | 0.018389 |
| 22 | 0.007175 | 0.003961 | 0.013048 | 0.013048 | 0.012940 | 0.010052 | 0.016058 | 0.023923 | 0.004563 | 0.004678 | 0.040035 | 0.013407 | 0.012671 |
| 23 | 0.004783 | 0.002340 | 0.008626 | 0.008626 | 0.015951 | 0.009652 | 0.011191 | 0.025391 | 0.002344 | 0.002323 | 0.029321 | 0.012108 | 0.012375 |
| 24 | 0.005407 | 0.001992 | 0.008068 | 0.008068 | 0.014005 | 0.008408 | 0.012497 | 0.022116 | 0.002225 | 0.002388 | 0.026858 | 0.012069 | 0.011774 |
| 25 | 0.004575 | 0.001331 | 0.006184 | 0.006184 | 0.015337 | 0.007281 | 0.013322 | 0.022806 | 0.001247 | 0.001414 | 0.017266 | 0.007491 | 0.008079 |
| 26 | 0.003327 | 0.001128 | 0.004317 | 0.004317 | 0.016979 | 0.004626 | 0.011010 | 0.026631 | 0.001003 | 0.001073 | 0.031264 | 0.005785 | 0.006273 |
| 27 | 0.001976 | 0.000841 | 0.003114 | 0.003114 | 0.009554 | 0.002789 | 0.005589 | 0.021048 | 0.000740 | 0.000713 | 0.047300 | 0.003739 | 0.003870 |
| 28 | 0.001144 | 0.000778 | 0.002355 | 0.002355 | 0.007379 | 0.001402 | 0.004990 | 0.012815 | 0.000677 | 0.000730 | 0.020905 | 0.002912 | 0.003640 |
| 29 | 0.001664 | 0.000733 | 0.002259 | 0.002259 | 0.006276 | 0.000575 | 0.004078 | 0.008047 | 0.000533 | 0.000653 | 0.033963 | 0.002335 | 0.003493 |
| 30 | 0.021004 | 0.006328 | 0.013144 | 0.013144 | 0.017635 | 0.001218 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Montgomery County 2027 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.060102 | 0.106494 | 0.079624 | 0.079624 | 0.052770 | 0.052770 | 0.052770 | 0.055385 | 0.107326 | 0.108951 | 0.055385 | 0.054796 | 0.068825 |
| 1 | 0.066549 | 0.098530 | 0.076806 | 0.076806 | 0.052814 | 0.052631 | 0.052756 | 0.055139 | 0.098838 | 0.103650 | 0.056488 | 0.056698 | 0.059543 |
| 2 | 0.058230 | 0.081980 | 0.056214 | 0.056214 | 0.052718 | 0.052406 | 0.052638 | 0.054991 | 0.113632 | 0.111268 | 0.056702 | 0.044354 | 0.047903 |
| 3 | 0.068317 | 0.080777 | 0.055472 | 0.055472 | 0.052918 | 0.052454 | 0.052831 | 0.055204 | 0.089706 | 0.085755 | 0.057356 | 0.053668 | 0.060675 |
| 4 | 0.053135 | 0.082808 | 0.056362 | 0.056362 | 0.053891 | 0.053316 | 0.053743 | 0.055756 | 0.101333 | 0.102451 | 0.058781 | 0.064806 | 0.071965 |
| 5 | 0.060726 | 0.072633 | 0.059676 | 0.059676 | 0.053660 | 0.052939 | 0.053478 | 0.055275 | 0.056427 | 0.056032 | 0.058720 | 0.056252 | 0.057263 |
| 6 | 0.056463 | 0.067981 | 0.049253 | 0.049253 | 0.050110 | 0.049293 | 0.049951 | 0.052822 | 0.053431 | 0.050813 | 0.056704 | 0.057525 | 0.058116 |
| 7 | 0.051159 | 0.054177 | 0.041543 | 0.041543 | 0.050257 | 0.049260 | 0.050171 | 0.052730 | 0.069221 | 0.071436 | 0.056813 | 0.063625 | 0.060032 |
| 8 | 0.028803 | 0.043392 | 0.039083 | 0.039083 | 0.050525 | 0.049151 | 0.050427 | 0.052628 | 0.048059 | 0.048826 | 0.057311 | 0.032744 | 0.030871 |
| 9 | 0.024436 | 0.036786 | 0.033685 | 0.033685 | 0.046163 | 0.044413 | 0.045842 | 0.048878 | 0.017683 | 0.017043 | 0.054314 | 0.021855 | 0.019997 |
| 10 | 0.052927 | 0.029062 | 0.025809 | 0.025809 | 0.061404 | 0.067579 | 0.064781 | 0.025119 | 0.017940 | 0.016190 | 0.014982 | 0.028546 | 0.027428 |
| 11 | 0.046584 | 0.040771 | 0.045180 | 0.045180 | 0.056161 | 0.062912 | 0.056092 | 0.025148 | 0.044072 | 0.041381 | 0.014903 | 0.026198 | 0.024805 |
| 12 | 0.062494 | 0.037624 | 0.045799 | 0.045799 | 0.047461 | 0.050457 | 0.052138 | 0.029484 | 0.028590 | 0.027061 | 0.014741 | 0.087920 | 0.078722 |
| 13 | 0.051055 | 0.030082 | 0.041770 | 0.041770 | 0.042489 | 0.048150 | 0.046877 | 0.025230 | 0.030257 | 0.030204 | 0.013316 | 0.056383 | 0.050902 |
| 14 | 0.045336 | 0.026070 | 0.035821 | 0.035821 | 0.025820 | 0.034428 | 0.024850 | 0.021493 | 0.023951 | 0.025697 | 0.015819 | 0.048250 | 0.043087 |
| 15 | 0.031923 | 0.022208 | 0.038412 | 0.038412 | 0.021687 | 0.035534 | 0.024118 | 0.020881 | 0.018410 | 0.019228 | 0.008020 | 0.028953 | 0.024421 |
| 16 | 0.038578 | 0.018665 | 0.035159 | 0.035159 | 0.018340 | 0.026744 | 0.023407 | 0.014939 | 0.014718 | 0.015792 | 0.014749 | 0.022498 | 0.021618 |
| 17 | 0.028907 | 0.015398 | 0.035080 | 0.035080 | 0.018865 | 0.032592 | 0.020340 | 0.010585 | 0.013232 | 0.013489 | 0.002423 | 0.018760 | 0.016864 |
| 18 | 0.021628 | 0.012350 | 0.032402 | 0.032402 | 0.020074 | 0.029399 | 0.024077 | 0.018568 | 0.013138 | 0.013534 | 0.004155 | 0.025502 | 0.023545 |
| 19 | 0.017365 | 0.009965 | 0.024282 | 0.024282 | 0.019213 | 0.024981 | 0.023017 | 0.015126 | 0.010719 | 0.009828 | 0.015295 | 0.035354 | 0.032228 |
| 20 | 0.013622 | 0.007440 | 0.018456 | 0.018456 | 0.018630 | 0.016064 | 0.018740 | 0.041651 | 0.009528 | 0.009369 | 0.025089 | 0.027142 | 0.024374 |
| 21 | 0.010606 | 0.005373 | 0.012996 | 0.012996 | 0.021810 | 0.013014 | 0.016849 | 0.032722 | 0.003893 | 0.004506 | 0.032878 | 0.020163 | 0.018389 |
| 22 | 0.007175 | 0.003961 | 0.013048 | 0.013048 | 0.012589 | 0.009118 | 0.013911 | 0.026807 | 0.004563 | 0.004678 | 0.024995 | 0.013407 | 0.012671 |
| 23 | 0.004783 | 0.002340 | 0.008626 | 0.008626 | 0.011598 | 0.008880 | 0.014318 | 0.021775 | 0.002344 | 0.002323 | 0.037614 | 0.012108 | 0.012375 |
| 24 | 0.005407 | 0.001992 | 0.008068 | 0.008068 | 0.014297 | 0.008526 | 0.009979 | 0.023111 | 0.002225 | 0.002388 | 0.027548 | 0.012069 | 0.011774 |
| 25 | 0.004575 | 0.001331 | 0.006184 | 0.006184 | 0.012553 | 0.007427 | 0.011144 | 0.020130 | 0.001247 | 0.001414 | 0.025235 | 0.007491 | 0.008079 |
| 26 | 0.003327 | 0.001128 | 0.004317 | 0.004317 | 0.013586 | 0.006348 | 0.011734 | 0.020564 | 0.001003 | 0.001073 | 0.016085 | 0.005785 | 0.006273 |
| 27 | 0.001976 | 0.000841 | 0.003114 | 0.003114 | 0.015041 | 0.004033 | 0.009698 | 0.024014 | 0.000740 | 0.000713 | 0.029126 | 0.003739 | 0.003870 |
| 28 | 0.001144 | 0.000778 | 0.002355 | 0.002355 | 0.008463 | 0.002432 | 0.004923 | 0.018979 | 0.000677 | 0.000730 | 0.044065 | 0.002912 | 0.003640 |
| 29 | 0.001664 | 0.000733 | 0.002259 | 0.002259 | 0.006459 | 0.001206 | 0.004341 | 0.011447 | 0.000533 | 0.000653 | 0.019310 | 0.002335 | 0.003493 |
| 30 | 0.021004 | 0.006328 | 0.013144 | 0.013144 | 0.017635 | 0.001542 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Waller County 2011 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.044529 | 0.047336 | 0.037599 | 0.037599 | 0.036180 | 0.074697 | 0.043899 | 0.020412 | 0.107326 | 0.108951 | 0.017572 | 0.054796 | 0.068825 |
| 1 | 0.068702 | 0.065493 | 0.048997 | 0.048997 | 0.039841 | 0.101513 | 0.042214 | 0.015110 | 0.098838 | 0.103650 | 0.002979 | 0.056698 | 0.059543 |
| 2 | 0.072519 | 0.070307 | 0.041818 | 0.041818 | 0.046623 | 0.104812 | 0.055843 | 0.028331 | 0.113632 | 0.111268 | 0.005313 | 0.044354 | 0.047903 |
| 3 | 0.055980 | 0.068618 | 0.040856 | 0.040856 | 0.049281 | 0.102921 | 0.059585 | 0.025227 | 0.089706 | 0.085755 | 0.020619 | 0.053668 | 0.060675 |
| 4 | 0.055980 | 0.079301 | 0.045074 | 0.045074 | 0.052966 | 0.076456 | 0.054774 | 0.076490 | 0.101333 | 0.102451 | 0.035762 | 0.064806 | 0.071965 |
| 5 | 0.054707 | 0.068702 | 0.048257 | 0.048257 | 0.068397 | 0.072053 | 0.055227 | 0.064970 | 0.056427 | 0.056032 | 0.048854 | 0.056252 | 0.057263 |
| 6 | 0.043257 | 0.068618 | 0.045222 | 0.045222 | 0.042648 | 0.057371 | 0.050452 | 0.056933 | 0.053431 | 0.050813 | 0.038874 | 0.057525 | 0.058116 |
| 7 | 0.041985 | 0.054894 | 0.037821 | 0.037821 | 0.042736 | 0.064267 | 0.058689 | 0.049088 | 0.069221 | 0.071436 | 0.060535 | 0.063625 | 0.060032 |
| 8 | 0.025445 | 0.044633 | 0.035379 | 0.035379 | 0.057372 | 0.070033 | 0.045203 | 0.055546 | 0.048059 | 0.048826 | 0.046135 | 0.032744 | 0.030871 |
| 9 | 0.035623 | 0.036652 | 0.032122 | 0.032122 | 0.054751 | 0.068493 | 0.055453 | 0.052116 | 0.017683 | 0.017043 | 0.044240 | 0.021855 | 0.019997 |
| 10 | 0.048346 | 0.031205 | 0.025831 | 0.025831 | 0.065557 | 0.068653 | 0.065744 | 0.057687 | 0.017940 | 0.016190 | 0.029414 | 0.028546 | 0.027428 |
| 11 | 0.044529 | 0.049278 | 0.048849 | 0.048849 | 0.078557 | 0.049889 | 0.060342 | 0.072218 | 0.044072 | 0.041381 | 0.055786 | 0.026198 | 0.024805 |
| 12 | 0.059796 | 0.045900 | 0.050699 | 0.050699 | 0.047578 | 0.034391 | 0.034339 | 0.060105 | 0.028590 | 0.027061 | 0.086656 | 0.087920 | 0.078722 |
| 13 | 0.055980 | 0.041973 | 0.046703 | 0.046703 | 0.039627 | 0.019471 | 0.033557 | 0.038712 | 0.030257 | 0.030204 | 0.039532 | 0.056383 | 0.050902 |
| 14 | 0.048346 | 0.038975 | 0.043446 | 0.043446 | 0.036599 | 0.009178 | 0.030650 | 0.026002 | 0.023951 | 0.025697 | 0.066825 | 0.048250 | 0.043087 |
| 15 | 0.039440 | 0.035005 | 0.047147 | 0.047147 | 0.029292 | 0.013218 | 0.027866 | 0.034289 | 0.018410 | 0.019228 | 0.035417 | 0.028953 | 0.024421 |
| 16 | 0.031807 | 0.031416 | 0.044704 | 0.044704 | 0.030064 | 0.002472 | 0.031547 | 0.039908 | 0.014718 | 0.015792 | 0.039586 | 0.022498 | 0.021618 |
| 17 | 0.034351 | 0.026940 | 0.049737 | 0.049737 | 0.023718 | 0.004862 | 0.016693 | 0.025686 | 0.013232 | 0.013489 | 0.041853 | 0.018760 | 0.016864 |
| 18 | 0.022901 | 0.022380 | 0.047073 | 0.047073 | 0.021178 | 0.000730 | 0.020301 | 0.020470 | 0.013138 | 0.013534 | 0.025183 | 0.025502 | 0.023545 |
| 19 | 0.024173 | 0.019382 | 0.033306 | 0.033306 | 0.013178 | 0.001112 | 0.018896 | 0.016540 | 0.010719 | 0.009828 | 0.024551 | 0.035354 | 0.032228 |
| 20 | 0.019084 | 0.012752 | 0.029383 | 0.029383 | 0.011799 | 0.000936 | 0.024538 | 0.021137 | 0.009528 | 0.009369 | 0.016394 | 0.027142 | 0.024374 |
| 21 | 0.007634 | 0.008867 | 0.018429 | 0.018429 | 0.017000 | 0.001181 | 0.026242 | 0.024395 | 0.003893 | 0.004506 | 0.025289 | 0.020163 | 0.018389 |
| 22 | 0.006361 | 0.007221 | 0.022722 | 0.022722 | 0.021289 | 0.000616 | 0.013673 | 0.017998 | 0.004563 | 0.004678 | 0.031470 | 0.013407 | 0.012671 |
| 23 | 0.012723 | 0.004645 | 0.014655 | 0.014655 | 0.013982 | 0.000249 | 0.014528 | 0.019271 | 0.002344 | 0.002323 | 0.028159 | 0.012108 | 0.012375 |
| 24 | 0.008906 | 0.003420 | 0.013989 | 0.013989 | 0.009457 | 0.000070 | 0.013551 | 0.017751 | 0.002225 | 0.002388 | 0.025783 | 0.012069 | 0.011774 |
| 25 | 0.007634 | 0.002407 | 0.011102 | 0.011102 | 0.007992 | 0.000024 | 0.010508 | 0.012854 | 0.001247 | 0.001414 | 0.015597 | 0.007491 | 0.008079 |
| 26 | 0.001272 | 0.002449 | 0.006883 | 0.006883 | 0.008237 | 0.000050 | 0.007903 | 0.012188 | 0.001003 | 0.001073 | 0.016256 | 0.005785 | 0.006273 |
| 27 | 0.001272 | 0.001267 | 0.006809 | 0.006809 | 0.006363 | 0.000037 | 0.006810 | 0.010137 | 0.000740 | 0.000713 | 0.015723 | 0.003739 | 0.003870 |
| 28 | 0.002545 | 0.001267 | 0.003923 | 0.003923 | 0.005349 | 0.000027 | 0.005974 | 0.008018 | 0.000677 | 0.000730 | 0.014339 | 0.002912 | 0.003640 |
| 29 | 0.002545 | 0.000845 | 0.003479 | 0.003479 | 0.004757 | 0.000020 | 0.004936 | 0.006995 | 0.000533 | 0.000653 | 0.014229 | 0.002335 | 0.003493 |
| 30 | 0.021628 | 0.007854 | 0.017985 | 0.017985 | 0.017635 | 0.000198 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Waller County 2017 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.044529 | 0.047336 | 0.037599 | 0.037599 | 0.078824 | 0.091142 | 0.083978 | 0.031614 | 0.107326 | 0.108951 | 0.016664 | 0.054796 | 0.068825 |
| 1 | 0.068702 | 0.065493 | 0.048997 | 0.048997 | 0.075667 | 0.090093 | 0.076580 | 0.032820 | 0.098838 | 0.103650 | 0.017093 | 0.056698 | 0.059543 |
| 2 | 0.072519 | 0.070307 | 0.041818 | 0.041818 | 0.067199 | 0.077034 | 0.075099 | 0.039904 | 0.113632 | 0.111268 | 0.017428 | 0.044354 | 0.047903 |
| 3 | 0.055980 | 0.068618 | 0.040856 | 0.040856 | 0.063959 | 0.079629 | 0.072132 | 0.035734 | 0.089706 | 0.085755 | 0.016351 | 0.053668 | 0.060675 |
| 4 | 0.055980 | 0.079301 | 0.045074 | 0.045074 | 0.041394 | 0.062045 | 0.040955 | 0.031878 | 0.101333 | 0.102451 | 0.020170 | 0.064806 | 0.071965 |
| 5 | 0.054707 | 0.068702 | 0.048257 | 0.048257 | 0.036596 | 0.068674 | 0.042028 | 0.032138 | 0.056427 | 0.056032 | 0.010539 | 0.056252 | 0.057263 |
| 6 | 0.043257 | 0.068618 | 0.045222 | 0.045222 | 0.032532 | 0.055132 | 0.043047 | 0.023869 | 0.053431 | 0.050813 | 0.019997 | 0.057525 | 0.058116 |
| 7 | 0.041985 | 0.054894 | 0.037821 | 0.037821 | 0.035230 | 0.072004 | 0.039560 | 0.017559 | 0.069221 | 0.071436 | 0.003389 | 0.063625 | 0.060032 |
| 8 | 0.025445 | 0.044633 | 0.035379 | 0.035379 | 0.039392 | 0.069145 | 0.049382 | 0.031958 | 0.048059 | 0.048826 | 0.005994 | 0.032744 | 0.030871 |
| 9 | 0.035623 | 0.036652 | 0.032122 | 0.032122 | 0.039680 | 0.062851 | 0.049899 | 0.027028 | 0.017683 | 0.017043 | 0.022758 | 0.021855 | 0.019997 |
| 10 | 0.048346 | 0.031205 | 0.025831 | 0.025831 | 0.041020 | 0.044016 | 0.043545 | 0.078002 | 0.017940 | 0.016190 | 0.038819 | 0.028546 | 0.027428 |
| 11 | 0.044529 | 0.049278 | 0.048849 | 0.048849 | 0.050566 | 0.038149 | 0.041402 | 0.063658 | 0.044072 | 0.041381 | 0.052497 | 0.026198 | 0.024805 |
| 12 | 0.059796 | 0.045900 | 0.050699 | 0.050699 | 0.030779 | 0.028742 | 0.036224 | 0.054189 | 0.028590 | 0.027061 | 0.041177 | 0.087920 | 0.078722 |
| 13 | 0.055980 | 0.041973 | 0.046703 | 0.046703 | 0.029860 | 0.029906 | 0.039417 | 0.045716 | 0.030257 | 0.030204 | 0.063961 | 0.056383 | 0.050902 |
| 14 | 0.048346 | 0.038975 | 0.043446 | 0.043446 | 0.038819 | 0.030838 | 0.029111 | 0.050432 | 0.023951 | 0.025697 | 0.048354 | 0.048250 | 0.043087 |
| 15 | 0.039440 | 0.035005 | 0.047147 | 0.047147 | 0.035967 | 0.028980 | 0.034482 | 0.045640 | 0.018410 | 0.019228 | 0.045680 | 0.028953 | 0.024421 |
| 16 | 0.031807 | 0.031416 | 0.044704 | 0.044704 | 0.041037 | 0.026572 | 0.038448 | 0.048454 | 0.014718 | 0.015792 | 0.030061 | 0.022498 | 0.021618 |
| 17 | 0.034351 | 0.026940 | 0.049737 | 0.049737 | 0.047968 | 0.018212 | 0.033726 | 0.058821 | 0.013232 | 0.013489 | 0.056177 | 0.018760 | 0.016864 |
| 18 | 0.022901 | 0.022380 | 0.047073 | 0.047073 | 0.028106 | 0.011607 | 0.017894 | 0.047873 | 0.013138 | 0.013534 | 0.087043 | 0.025502 | 0.023545 |
| 19 | 0.024173 | 0.019382 | 0.033306 | 0.033306 | 0.022635 | 0.006198 | 0.016732 | 0.030019 | 0.010719 | 0.009828 | 0.039384 | 0.035354 | 0.032228 |
| 20 | 0.019084 | 0.012752 | 0.029383 | 0.029383 | 0.020051 | 0.002680 | 0.014288 | 0.019410 | 0.009528 | 0.009369 | 0.065558 | 0.027142 | 0.024374 |
| 21 | 0.007634 | 0.008867 | 0.018429 | 0.018429 | 0.015338 | 0.003551 | 0.012169 | 0.024501 | 0.003893 | 0.004506 | 0.034386 | 0.020163 | 0.018389 |
| 22 | 0.006361 | 0.007221 | 0.022722 | 0.022722 | 0.015262 | 0.000636 | 0.013276 | 0.027421 | 0.004563 | 0.004678 | 0.037837 | 0.013407 | 0.012671 |
| 23 | 0.012723 | 0.004645 | 0.014655 | 0.014655 | 0.011438 | 0.001134 | 0.006577 | 0.016877 | 0.002344 | 0.002323 | 0.039588 | 0.012108 | 0.012375 |
| 24 | 0.008906 | 0.003420 | 0.013989 | 0.013989 | 0.009950 | 0.000160 | 0.007616 | 0.013002 | 0.002225 | 0.002388 | 0.023454 | 0.012069 | 0.011774 |
| 25 | 0.007634 | 0.002407 | 0.011102 | 0.011102 | 0.006052 | 0.000234 | 0.006794 | 0.010264 | 0.001247 | 0.001414 | 0.022808 | 0.007491 | 0.008079 |
| 26 | 0.001272 | 0.002449 | 0.006883 | 0.006883 | 0.005200 | 0.000182 | 0.008420 | 0.012742 | 0.001003 | 0.001073 | 0.015103 | 0.005785 | 0.006273 |
| 27 | 0.001272 | 0.001267 | 0.006809 | 0.006809 | 0.007295 | 0.000215 | 0.008562 | 0.014199 | 0.000740 | 0.000713 | 0.022934 | 0.003739 | 0.003870 |
| 28 | 0.002545 | 0.001267 | 0.003923 | 0.003923 | 0.008928 | 0.000108 | 0.004271 | 0.010231 | 0.000677 | 0.000730 | 0.028466 | 0.002912 | 0.003640 |
| 29 | 0.002545 | 0.000845 | 0.003479 | 0.003479 | 0.005620 | 0.000040 | 0.004325 | 0.010633 | 0.000533 | 0.000653 | 0.025257 | 0.002335 | 0.003493 |
| 30 | 0.021628 | 0.007854 | 0.017985 | 0.017985 | 0.017635 | 0.000091 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Waller County 2018 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.044529 | 0.047336 | 0.037599 | 0.037599 | 0.056764 | 0.056764 | 0.056764 | 0.059441 | 0.107326 | 0.108951 | 0.059441 | 0.054796 | 0.068825 |
| 1 | 0.068702 | 0.065493 | 0.048997 | 0.048997 | 0.078327 | 0.090363 | 0.083431 | 0.031402 | 0.098838 | 0.103650 | 0.016783 | 0.056698 | 0.059543 |
| 2 | 0.072519 | 0.070307 | 0.041818 | 0.041818 | 0.075191 | 0.089323 | 0.076081 | 0.032600 | 0.113632 | 0.111268 | 0.017214 | 0.044354 | 0.047903 |
| 3 | 0.055980 | 0.068618 | 0.040856 | 0.040856 | 0.066776 | 0.076375 | 0.074609 | 0.039636 | 0.089706 | 0.085755 | 0.017551 | 0.053668 | 0.060675 |
| 4 | 0.055980 | 0.079301 | 0.045074 | 0.045074 | 0.063556 | 0.078948 | 0.071662 | 0.035495 | 0.101333 | 0.102451 | 0.016467 | 0.064806 | 0.071965 |
| 5 | 0.054707 | 0.068702 | 0.048257 | 0.048257 | 0.040595 | 0.060250 | 0.040093 | 0.031371 | 0.056427 | 0.056032 | 0.020168 | 0.056252 | 0.057263 |
| 6 | 0.043257 | 0.068618 | 0.045222 | 0.045222 | 0.035413 | 0.065287 | 0.040533 | 0.031332 | 0.053431 | 0.050813 | 0.010463 | 0.057525 | 0.058116 |
| 7 | 0.041985 | 0.054894 | 0.037821 | 0.037821 | 0.031480 | 0.052413 | 0.041516 | 0.023270 | 0.069221 | 0.071436 | 0.019852 | 0.063625 | 0.060032 |
| 8 | 0.025445 | 0.044633 | 0.035379 | 0.035379 | 0.033634 | 0.066986 | 0.037578 | 0.016956 | 0.048059 | 0.048826 | 0.003340 | 0.032744 | 0.030871 |
| 9 | 0.035623 | 0.036652 | 0.032122 | 0.032122 | 0.037606 | 0.064326 | 0.046908 | 0.030862 | 0.017683 | 0.017043 | 0.005908 | 0.021855 | 0.019997 |
| 10 | 0.048346 | 0.031205 | 0.025831 | 0.025831 | 0.037881 | 0.058471 | 0.047399 | 0.026101 | 0.017940 | 0.016190 | 0.022431 | 0.028546 | 0.027428 |
| 11 | 0.044529 | 0.049278 | 0.048849 | 0.048849 | 0.038627 | 0.040052 | 0.040731 | 0.074609 | 0.044072 | 0.041381 | 0.037983 | 0.026198 | 0.024805 |
| 12 | 0.059796 | 0.045900 | 0.050699 | 0.050699 | 0.047616 | 0.034712 | 0.038727 | 0.060889 | 0.028590 | 0.027061 | 0.051366 | 0.087920 | 0.078722 |
| 13 | 0.055980 | 0.041973 | 0.046703 | 0.046703 | 0.028583 | 0.025567 | 0.033357 | 0.051333 | 0.030257 | 0.030204 | 0.039996 | 0.056383 | 0.050902 |
| 14 | 0.048346 | 0.038975 | 0.043446 | 0.043446 | 0.027729 | 0.026602 | 0.036297 | 0.043307 | 0.023951 | 0.025697 | 0.062126 | 0.048250 | 0.043087 |
| 15 | 0.039440 | 0.035005 | 0.047147 | 0.047147 | 0.036049 | 0.027432 | 0.026806 | 0.047774 | 0.018410 | 0.019228 | 0.046967 | 0.028953 | 0.024421 |
| 16 | 0.031807 | 0.031416 | 0.044704 | 0.044704 | 0.032933 | 0.025188 | 0.031252 | 0.042815 | 0.014718 | 0.015792 | 0.044042 | 0.022498 | 0.021618 |
| 17 | 0.034351 | 0.026940 | 0.049737 | 0.049737 | 0.037575 | 0.023095 | 0.034847 | 0.045455 | 0.013232 | 0.013489 | 0.028983 | 0.018760 | 0.016864 |
| 18 | 0.022901 | 0.022380 | 0.047073 | 0.047073 | 0.043298 | 0.015458 | 0.030076 | 0.054639 | 0.013138 | 0.013534 | 0.053761 | 0.025502 | 0.023545 |
| 19 | 0.024173 | 0.019382 | 0.033306 | 0.033306 | 0.025369 | 0.009852 | 0.015958 | 0.044470 | 0.010719 | 0.009828 | 0.083300 | 0.035354 | 0.032228 |
| 20 | 0.019084 | 0.012752 | 0.029383 | 0.029383 | 0.020137 | 0.005134 | 0.014678 | 0.027609 | 0.009528 | 0.009369 | 0.037408 | 0.027142 | 0.024374 |
| 21 | 0.007634 | 0.008867 | 0.018429 | 0.018429 | 0.017838 | 0.002220 | 0.012535 | 0.017851 | 0.003893 | 0.004506 | 0.062269 | 0.020163 | 0.018389 |
| 22 | 0.006361 | 0.007221 | 0.022722 | 0.022722 | 0.013645 | 0.002941 | 0.010676 | 0.022533 | 0.004563 | 0.004678 | 0.032661 | 0.013407 | 0.012671 |
| 23 | 0.012723 | 0.004645 | 0.014655 | 0.014655 | 0.013379 | 0.000514 | 0.011454 | 0.024967 | 0.002344 | 0.002323 | 0.035668 | 0.012108 | 0.012375 |
| 24 | 0.008906 | 0.003420 | 0.013989 | 0.013989 | 0.010027 | 0.000916 | 0.005674 | 0.015367 | 0.002225 | 0.002388 | 0.037319 | 0.012069 | 0.011774 |
| 25 | 0.007634 | 0.002407 | 0.011102 | 0.011102 | 0.008723 | 0.000129 | 0.006571 | 0.011838 | 0.001247 | 0.001414 | 0.022110 | 0.007491 | 0.008079 |
| 26 | 0.001272 | 0.002449 | 0.006883 | 0.006883 | 0.005227 | 0.000184 | 0.005762 | 0.009251 | 0.001003 | 0.001073 | 0.021337 | 0.005785 | 0.006273 |
| 27 | 0.001272 | 0.001267 | 0.006809 | 0.006809 | 0.004490 | 0.000144 | 0.007142 | 0.011484 | 0.000740 | 0.000713 | 0.014129 | 0.003739 | 0.003870 |
| 28 | 0.002545 | 0.001267 | 0.003923 | 0.003923 | 0.006300 | 0.000169 | 0.007262 | 0.012798 | 0.000677 | 0.000730 | 0.021455 | 0.002912 | 0.003640 |
| 29 | 0.002545 | 0.000845 | 0.003479 | 0.003479 | 0.007594 | 0.000083 | 0.003561 | 0.009127 | 0.000533 | 0.000653 | 0.026427 | 0.002335 | 0.003493 |
| 30 | 0.021628 | 0.007854 | 0.017985 | 0.017985 | 0.017635 | 0.000101 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Waller County 2020 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.044529 | 0.047336 | 0.037599 | 0.037599 | 0.056623 | 0.056623 | 0.056623 | 0.059505 | 0.107326 | 0.108951 | 0.059505 | 0.054796 | 0.068825 |
| 1 | 0.068702 | 0.065493 | 0.048997 | 0.048997 | 0.058906 | 0.058781 | 0.059000 | 0.060992 | 0.098838 | 0.103650 | 0.061446 | 0.056698 | 0.059543 |
| 2 | 0.072519 | 0.070307 | 0.041818 | 0.041818 | 0.055787 | 0.055441 | 0.055725 | 0.058218 | 0.113632 | 0.111268 | 0.059616 | 0.044354 | 0.047903 |
| 3 | 0.055980 | 0.068618 | 0.040856 | 0.040856 | 0.076979 | 0.088257 | 0.081903 | 0.030756 | 0.089706 | 0.085755 | 0.016832 | 0.053668 | 0.060675 |
| 4 | 0.055980 | 0.079301 | 0.045074 | 0.045074 | 0.073896 | 0.087241 | 0.074688 | 0.031930 | 0.101333 | 0.102451 | 0.017265 | 0.064806 | 0.071965 |
| 5 | 0.054707 | 0.068702 | 0.048257 | 0.048257 | 0.064800 | 0.073271 | 0.072235 | 0.038481 | 0.056427 | 0.056032 | 0.017480 | 0.056252 | 0.057263 |
| 6 | 0.043257 | 0.068618 | 0.045222 | 0.045222 | 0.060109 | 0.072950 | 0.067439 | 0.033841 | 0.053431 | 0.050813 | 0.016168 | 0.057525 | 0.058116 |
| 7 | 0.041985 | 0.054894 | 0.037821 | 0.037821 | 0.037895 | 0.054587 | 0.037185 | 0.029629 | 0.069221 | 0.071436 | 0.019658 | 0.063625 | 0.060032 |
| 8 | 0.025445 | 0.044633 | 0.035379 | 0.035379 | 0.032631 | 0.058063 | 0.037061 | 0.029329 | 0.048059 | 0.048826 | 0.010126 | 0.032744 | 0.030871 |
| 9 | 0.035623 | 0.036652 | 0.032122 | 0.032122 | 0.028626 | 0.045687 | 0.037403 | 0.021577 | 0.017683 | 0.017043 | 0.019072 | 0.021855 | 0.019997 |
| 10 | 0.048346 | 0.031205 | 0.025831 | 0.025831 | 0.030584 | 0.058389 | 0.033855 | 0.015723 | 0.017940 | 0.016190 | 0.003209 | 0.028546 | 0.027428 |
| 11 | 0.044529 | 0.049278 | 0.048849 | 0.048849 | 0.033749 | 0.055020 | 0.041655 | 0.028360 | 0.044072 | 0.041381 | 0.005636 | 0.026198 | 0.024805 |
| 12 | 0.059796 | 0.045900 | 0.050699 | 0.050699 | 0.033542 | 0.048997 | 0.041464 | 0.023756 | 0.028590 | 0.027061 | 0.021238 | 0.087920 | 0.078722 |
| 13 | 0.055980 | 0.041973 | 0.046703 | 0.046703 | 0.033749 | 0.032921 | 0.035112 | 0.067292 | 0.030257 | 0.030204 | 0.035704 | 0.056383 | 0.050902 |
| 14 | 0.048346 | 0.038975 | 0.043446 | 0.043446 | 0.041041 | 0.027942 | 0.032880 | 0.054391 | 0.023951 | 0.025697 | 0.047926 | 0.048250 | 0.043087 |
| 15 | 0.039440 | 0.035005 | 0.047147 | 0.047147 | 0.024637 | 0.020580 | 0.028321 | 0.045855 | 0.018410 | 0.019228 | 0.037318 | 0.028953 | 0.024421 |
| 16 | 0.031807 | 0.031416 | 0.044704 | 0.044704 | 0.023580 | 0.020997 | 0.030362 | 0.038331 | 0.014718 | 0.015792 | 0.057546 | 0.022498 | 0.021618 |
| 17 | 0.034351 | 0.026940 | 0.049737 | 0.049737 | 0.030235 | 0.021194 | 0.022079 | 0.041875 | 0.013232 | 0.013489 | 0.043179 | 0.018760 | 0.016864 |
| 18 | 0.022901 | 0.022380 | 0.047073 | 0.047073 | 0.027245 | 0.019074 | 0.025355 | 0.037181 | 0.013138 | 0.013534 | 0.040195 | 0.025502 | 0.023545 |
| 19 | 0.024173 | 0.019382 | 0.033306 | 0.033306 | 0.030654 | 0.017111 | 0.027831 | 0.039087 | 0.010719 | 0.009828 | 0.026252 | 0.035354 | 0.032228 |
| 20 | 0.019084 | 0.012752 | 0.029383 | 0.029383 | 0.034835 | 0.011221 | 0.023655 | 0.046548 | 0.009528 | 0.009369 | 0.048337 | 0.027142 | 0.024374 |
| 21 | 0.007634 | 0.008867 | 0.018429 | 0.018429 | 0.020123 | 0.006993 | 0.012353 | 0.037509 | 0.003893 | 0.004506 | 0.074328 | 0.020163 | 0.018389 |
| 22 | 0.006361 | 0.007221 | 0.022722 | 0.022722 | 0.015973 | 0.003645 | 0.011362 | 0.023287 | 0.004563 | 0.004678 | 0.033379 | 0.013407 | 0.012671 |
| 23 | 0.012723 | 0.004645 | 0.014655 | 0.014655 | 0.013951 | 0.001543 | 0.009553 | 0.014916 | 0.002344 | 0.002323 | 0.055151 | 0.012108 | 0.012375 |
| 24 | 0.008906 | 0.003420 | 0.013989 | 0.013989 | 0.010520 | 0.001999 | 0.008005 | 0.018640 | 0.002225 | 0.002388 | 0.028706 | 0.012069 | 0.011774 |
| 25 | 0.007634 | 0.002407 | 0.011102 | 0.011102 | 0.010315 | 0.000349 | 0.008588 | 0.020653 | 0.001247 | 0.001414 | 0.031349 | 0.007491 | 0.008079 |
| 26 | 0.001272 | 0.002449 | 0.006883 | 0.006883 | 0.007620 | 0.000609 | 0.004188 | 0.012591 | 0.001003 | 0.001073 | 0.032556 | 0.005785 | 0.006273 |
| 27 | 0.001272 | 0.001267 | 0.006809 | 0.006809 | 0.006533 | 0.000084 | 0.004770 | 0.009602 | 0.000740 | 0.000713 | 0.019139 | 0.003739 | 0.003870 |
| 28 | 0.002545 | 0.001267 | 0.003923 | 0.003923 | 0.003915 | 0.000120 | 0.004184 | 0.007503 | 0.000677 | 0.000730 | 0.018470 | 0.002912 | 0.003640 |
| 29 | 0.002545 | 0.000845 | 0.003479 | 0.003479 | 0.003315 | 0.000091 | 0.005102 | 0.009226 | 0.000533 | 0.000653 | 0.012139 | 0.002335 | 0.003493 |
| 30 | 0.021628 | 0.007854 | 0.017985 | 0.017985 | 0.017635 | 0.000219 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Waller County 2023 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.044529 | 0.047336 | 0.037599 | 0.037599 | 0.055916 | 0.055916 | 0.055916 | 0.058180 | 0.107326 | 0.108951 | 0.058180 | 0.054796 | 0.068825 |
| 1 | 0.068702 | 0.065493 | 0.048997 | 0.048997 | 0.056272 | 0.056177 | 0.056259 | 0.058179 | 0.098838 | 0.103650 | 0.058578 | 0.056698 | 0.059543 |
| 2 | 0.072519 | 0.070307 | 0.041818 | 0.041818 | 0.053703 | 0.053595 | 0.053754 | 0.056574 | 0.113632 | 0.111268 | 0.057461 | 0.044354 | 0.047903 |
| 3 | 0.055980 | 0.068618 | 0.040856 | 0.040856 | 0.055079 | 0.054952 | 0.055275 | 0.057472 | 0.089706 | 0.085755 | 0.058467 | 0.053668 | 0.060675 |
| 4 | 0.055980 | 0.079301 | 0.045074 | 0.045074 | 0.057299 | 0.057046 | 0.057596 | 0.058908 | 0.101333 | 0.102451 | 0.060375 | 0.064806 | 0.071965 |
| 5 | 0.054707 | 0.068702 | 0.048257 | 0.048257 | 0.053587 | 0.052974 | 0.053667 | 0.055701 | 0.056427 | 0.056032 | 0.058115 | 0.056252 | 0.057263 |
| 6 | 0.043257 | 0.068618 | 0.045222 | 0.045222 | 0.072106 | 0.081694 | 0.076767 | 0.028881 | 0.053431 | 0.050813 | 0.016156 | 0.057525 | 0.058116 |
| 7 | 0.041985 | 0.054894 | 0.037821 | 0.037821 | 0.067500 | 0.078131 | 0.068119 | 0.029440 | 0.069221 | 0.071436 | 0.016327 | 0.063625 | 0.060032 |
| 8 | 0.025445 | 0.044633 | 0.035379 | 0.035379 | 0.057694 | 0.063477 | 0.064077 | 0.034826 | 0.048059 | 0.048826 | 0.016279 | 0.032744 | 0.030871 |
| 9 | 0.035623 | 0.036652 | 0.032122 | 0.032122 | 0.052840 | 0.062167 | 0.059003 | 0.030340 | 0.017683 | 0.017043 | 0.014941 | 0.021855 | 0.019997 |
| 10 | 0.048346 | 0.031205 | 0.025831 | 0.025831 | 0.032885 | 0.045715 | 0.032079 | 0.026323 | 0.017940 | 0.016190 | 0.018033 | 0.028546 | 0.027428 |
| 11 | 0.044529 | 0.049278 | 0.048849 | 0.048849 | 0.027950 | 0.047838 | 0.031525 | 0.025805 | 0.044072 | 0.041381 | 0.009215 | 0.026198 | 0.024805 |
| 12 | 0.059796 | 0.045900 | 0.050699 | 0.050699 | 0.024205 | 0.037017 | 0.031373 | 0.018806 | 0.028590 | 0.027061 | 0.017221 | 0.087920 | 0.078722 |
| 13 | 0.055980 | 0.041973 | 0.046703 | 0.046703 | 0.025189 | 0.045712 | 0.027598 | 0.013446 | 0.030257 | 0.030204 | 0.002852 | 0.056383 | 0.050902 |
| 14 | 0.048346 | 0.038975 | 0.043446 | 0.043446 | 0.027435 | 0.042348 | 0.033477 | 0.024021 | 0.023951 | 0.025697 | 0.004971 | 0.048250 | 0.043087 |
| 15 | 0.039440 | 0.035005 | 0.047147 | 0.047147 | 0.026908 | 0.037037 | 0.032845 | 0.019936 | 0.018410 | 0.019228 | 0.018594 | 0.028953 | 0.024421 |
| 16 | 0.031807 | 0.031416 | 0.044704 | 0.044704 | 0.026714 | 0.024469 | 0.027413 | 0.055915 | 0.014718 | 0.015792 | 0.031004 | 0.022498 | 0.021618 |
| 17 | 0.034351 | 0.026940 | 0.049737 | 0.049737 | 0.032058 | 0.020412 | 0.025303 | 0.044760 | 0.013232 | 0.013489 | 0.041292 | 0.018760 | 0.016864 |
| 18 | 0.022901 | 0.022380 | 0.047073 | 0.047073 | 0.018731 | 0.014509 | 0.021163 | 0.037012 | 0.013138 | 0.013534 | 0.031647 | 0.025502 | 0.023545 |
| 19 | 0.024173 | 0.019382 | 0.033306 | 0.033306 | 0.017689 | 0.014544 | 0.022359 | 0.030639 | 0.010719 | 0.009828 | 0.048417 | 0.035354 | 0.032228 |
| 20 | 0.019084 | 0.012752 | 0.029383 | 0.029383 | 0.022068 | 0.014159 | 0.015781 | 0.032824 | 0.009528 | 0.009369 | 0.035754 | 0.027142 | 0.024374 |
| 21 | 0.007634 | 0.008867 | 0.018429 | 0.018429 | 0.019618 | 0.012516 | 0.017856 | 0.028859 | 0.003893 | 0.004506 | 0.033019 | 0.020163 | 0.018389 |
| 22 | 0.006361 | 0.007221 | 0.022722 | 0.022722 | 0.021770 | 0.011016 | 0.019305 | 0.030050 | 0.004563 | 0.004678 | 0.021400 | 0.013407 | 0.012671 |
| 23 | 0.012723 | 0.004645 | 0.014655 | 0.014655 | 0.024396 | 0.007096 | 0.016162 | 0.035423 | 0.002344 | 0.002323 | 0.039074 | 0.012108 | 0.012375 |
| 24 | 0.008906 | 0.003420 | 0.013989 | 0.013989 | 0.013900 | 0.004343 | 0.008313 | 0.028262 | 0.002225 | 0.002388 | 0.059603 | 0.012069 | 0.011774 |
| 25 | 0.007634 | 0.002407 | 0.011102 | 0.011102 | 0.010880 | 0.002220 | 0.007530 | 0.017378 | 0.001247 | 0.001414 | 0.026560 | 0.007491 | 0.008079 |
| 26 | 0.001272 | 0.002449 | 0.006883 | 0.006883 | 0.009369 | 0.000923 | 0.006234 | 0.011017 | 0.001003 | 0.001073 | 0.043513 | 0.005785 | 0.006273 |
| 27 | 0.001272 | 0.001267 | 0.006809 | 0.006809 | 0.006966 | 0.001173 | 0.005145 | 0.013629 | 0.000740 | 0.000713 | 0.022466 | 0.003739 | 0.003870 |
| 28 | 0.002545 | 0.001267 | 0.003923 | 0.003923 | 0.006734 | 0.000201 | 0.005435 | 0.014955 | 0.000677 | 0.000730 | 0.024344 | 0.002912 | 0.003640 |
| 29 | 0.002545 | 0.000845 | 0.003479 | 0.003479 | 0.004904 | 0.000344 | 0.002609 | 0.009023 | 0.000533 | 0.000653 | 0.025065 | 0.002335 | 0.003493 |
| 30 | 0.021628 | 0.007854 | 0.017985 | 0.017985 | 0.017635 | 0.000280 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Waller County 2026 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.044529 | 0.047336 | 0.037599 | 0.037599 | 0.053311 | 0.053311 | 0.053311 | 0.055878 | 0.107326 | 0.108951 | 0.055878 | 0.054796 | 0.068825 |
| 1 | 0.068702 | 0.065493 | 0.048997 | 0.048997 | 0.053213 | 0.053082 | 0.053192 | 0.055727 | 0.098838 | 0.103650 | 0.056089 | 0.056698 | 0.059543 |
| 2 | 0.072519 | 0.070307 | 0.041818 | 0.041818 | 0.053415 | 0.053131 | 0.053387 | 0.055943 | 0.113632 | 0.111268 | 0.056737 | 0.044354 | 0.047903 |
| 3 | 0.055980 | 0.068618 | 0.040856 | 0.040856 | 0.054397 | 0.054004 | 0.054308 | 0.056503 | 0.089706 | 0.085755 | 0.058147 | 0.053668 | 0.060675 |
| 4 | 0.055980 | 0.079301 | 0.045074 | 0.045074 | 0.054744 | 0.054257 | 0.054641 | 0.056502 | 0.101333 | 0.102451 | 0.058545 | 0.064806 | 0.071965 |
| 5 | 0.054707 | 0.068702 | 0.048257 | 0.048257 | 0.051675 | 0.051124 | 0.051612 | 0.054469 | 0.056427 | 0.056032 | 0.056986 | 0.056252 | 0.057263 |
| 6 | 0.043257 | 0.068618 | 0.045222 | 0.045222 | 0.051827 | 0.051090 | 0.051839 | 0.054374 | 0.053431 | 0.050813 | 0.057096 | 0.057525 | 0.058116 |
| 7 | 0.041985 | 0.054894 | 0.037821 | 0.037821 | 0.052672 | 0.051595 | 0.052695 | 0.054749 | 0.069221 | 0.071436 | 0.058059 | 0.063625 | 0.060032 |
| 8 | 0.025445 | 0.044633 | 0.035379 | 0.035379 | 0.048125 | 0.046622 | 0.047904 | 0.050848 | 0.048059 | 0.048826 | 0.055022 | 0.032744 | 0.030871 |
| 9 | 0.035623 | 0.036652 | 0.032122 | 0.032122 | 0.064014 | 0.070939 | 0.067696 | 0.026131 | 0.017683 | 0.017043 | 0.015178 | 0.021855 | 0.019997 |
| 10 | 0.048346 | 0.031205 | 0.025831 | 0.025831 | 0.059196 | 0.066851 | 0.059289 | 0.026395 | 0.017940 | 0.016190 | 0.015220 | 0.028546 | 0.027428 |
| 11 | 0.044529 | 0.049278 | 0.048849 | 0.048849 | 0.050025 | 0.053616 | 0.055111 | 0.030946 | 0.044072 | 0.041381 | 0.015055 | 0.026198 | 0.024805 |
| 12 | 0.059796 | 0.045900 | 0.050699 | 0.050699 | 0.045285 | 0.051800 | 0.050126 | 0.026719 | 0.028590 | 0.027061 | 0.013710 | 0.087920 | 0.078722 |
| 13 | 0.055980 | 0.041973 | 0.046703 | 0.046703 | 0.027519 | 0.037038 | 0.026572 | 0.022762 | 0.030257 | 0.030204 | 0.016287 | 0.056383 | 0.050902 |
| 14 | 0.048346 | 0.038975 | 0.043446 | 0.043446 | 0.023114 | 0.038227 | 0.025789 | 0.022114 | 0.023951 | 0.025697 | 0.008257 | 0.048250 | 0.043087 |
| 15 | 0.039440 | 0.035005 | 0.047147 | 0.047147 | 0.019768 | 0.029133 | 0.025323 | 0.015965 | 0.018410 | 0.019228 | 0.015311 | 0.028953 | 0.024421 |
| 16 | 0.031807 | 0.031416 | 0.044704 | 0.044704 | 0.020334 | 0.035504 | 0.022005 | 0.011312 | 0.014718 | 0.015792 | 0.002516 | 0.022498 | 0.021618 |
| 17 | 0.034351 | 0.026940 | 0.049737 | 0.049737 | 0.021884 | 0.032433 | 0.026359 | 0.020025 | 0.013232 | 0.013489 | 0.004349 | 0.018760 | 0.016864 |
| 18 | 0.022901 | 0.022380 | 0.047073 | 0.047073 | 0.020946 | 0.027559 | 0.025198 | 0.016314 | 0.013138 | 0.013534 | 0.016009 | 0.025502 | 0.023545 |
| 19 | 0.024173 | 0.019382 | 0.033306 | 0.033306 | 0.020545 | 0.017950 | 0.020764 | 0.045336 | 0.010719 | 0.009828 | 0.026480 | 0.035354 | 0.032228 |
| 20 | 0.019084 | 0.012752 | 0.029383 | 0.029383 | 0.024052 | 0.014542 | 0.018668 | 0.035616 | 0.009528 | 0.009369 | 0.034700 | 0.027142 | 0.024374 |
| 21 | 0.007634 | 0.008867 | 0.018429 | 0.018429 | 0.013883 | 0.010189 | 0.015413 | 0.029179 | 0.003893 | 0.004506 | 0.026380 | 0.020163 | 0.018389 |
| 22 | 0.006361 | 0.007221 | 0.022722 | 0.022722 | 0.012940 | 0.010052 | 0.016058 | 0.023923 | 0.004563 | 0.004678 | 0.040035 | 0.013407 | 0.012671 |
| 23 | 0.012723 | 0.004645 | 0.014655 | 0.014655 | 0.015951 | 0.009652 | 0.011191 | 0.025391 | 0.002344 | 0.002323 | 0.029321 | 0.012108 | 0.012375 |
| 24 | 0.008906 | 0.003420 | 0.013989 | 0.013989 | 0.014005 | 0.008408 | 0.012497 | 0.022116 | 0.002225 | 0.002388 | 0.026858 | 0.012069 | 0.011774 |
| 25 | 0.007634 | 0.002407 | 0.011102 | 0.011102 | 0.015337 | 0.007281 | 0.013322 | 0.022806 | 0.001247 | 0.001414 | 0.017266 | 0.007491 | 0.008079 |
| 26 | 0.001272 | 0.002449 | 0.006883 | 0.006883 | 0.016979 | 0.004626 | 0.011010 | 0.026631 | 0.001003 | 0.001073 | 0.031264 | 0.005785 | 0.006273 |
| 27 | 0.001272 | 0.001267 | 0.006809 | 0.006809 | 0.009554 | 0.002789 | 0.005589 | 0.021048 | 0.000740 | 0.000713 | 0.047300 | 0.003739 | 0.003870 |
| 28 | 0.002545 | 0.001267 | 0.003923 | 0.003923 | 0.007379 | 0.001402 | 0.004990 | 0.012815 | 0.000677 | 0.000730 | 0.020905 | 0.002912 | 0.003640 |
| 29 | 0.002545 | 0.000845 | 0.003479 | 0.003479 | 0.006276 | 0.000575 | 0.004078 | 0.008047 | 0.000533 | 0.000653 | 0.033963 | 0.002335 | 0.003493 |
| 30 | 0.021628 | 0.007854 | 0.017985 | 0.017985 | 0.017635 | 0.001218 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Waller County 2027 Age Distribution Inputs to MOVES

| Age | MC | PC | PT | LCT | OBus | Tbus | Sbus | RT | SUSHT | SULHT | MH | CSHT | CLHT |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 0.044529 | 0.047336 | 0.037599 | 0.037599 | 0.052770 | 0.052770 | 0.052770 | 0.055385 | 0.107326 | 0.108951 | 0.055385 | 0.054796 | 0.068825 |
| 1 | 0.068702 | 0.065493 | 0.048997 | 0.048997 | 0.052814 | 0.052631 | 0.052756 | 0.055139 | 0.098838 | 0.103650 | 0.056488 | 0.056698 | 0.059543 |
| 2 | 0.072519 | 0.070307 | 0.041818 | 0.041818 | 0.052718 | 0.052406 | 0.052638 | 0.054991 | 0.113632 | 0.111268 | 0.056702 | 0.044354 | 0.047903 |
| 3 | 0.055980 | 0.068618 | 0.040856 | 0.040856 | 0.052918 | 0.052454 | 0.052831 | 0.055204 | 0.089706 | 0.085755 | 0.057356 | 0.053668 | 0.060675 |
| 4 | 0.055980 | 0.079301 | 0.045074 | 0.045074 | 0.053891 | 0.053316 | 0.053743 | 0.055756 | 0.101333 | 0.102451 | 0.058781 | 0.064806 | 0.071965 |
| 5 | 0.054707 | 0.068702 | 0.048257 | 0.048257 | 0.053660 | 0.052939 | 0.053478 | 0.055275 | 0.056427 | 0.056032 | 0.058720 | 0.056252 | 0.057263 |
| 6 | 0.043257 | 0.068618 | 0.045222 | 0.045222 | 0.050110 | 0.049293 | 0.049951 | 0.052822 | 0.053431 | 0.050813 | 0.056704 | 0.057525 | 0.058116 |
| 7 | 0.041985 | 0.054894 | 0.037821 | 0.037821 | 0.050257 | 0.049260 | 0.050171 | 0.052730 | 0.069221 | 0.071436 | 0.056813 | 0.063625 | 0.060032 |
| 8 | 0.025445 | 0.044633 | 0.035379 | 0.035379 | 0.050525 | 0.049151 | 0.050427 | 0.052628 | 0.048059 | 0.048826 | 0.057311 | 0.032744 | 0.030871 |
| 9 | 0.035623 | 0.036652 | 0.032122 | 0.032122 | 0.046163 | 0.044413 | 0.045842 | 0.048878 | 0.017683 | 0.017043 | 0.054314 | 0.021855 | 0.019997 |
| 10 | 0.048346 | 0.031205 | 0.025831 | 0.025831 | 0.061404 | 0.067579 | 0.064781 | 0.025119 | 0.017940 | 0.016190 | 0.014982 | 0.028546 | 0.027428 |
| 11 | 0.044529 | 0.049278 | 0.048849 | 0.048849 | 0.056161 | 0.062912 | 0.056092 | 0.025148 | 0.044072 | 0.041381 | 0.014903 | 0.026198 | 0.024805 |
| 12 | 0.059796 | 0.045900 | 0.050699 | 0.050699 | 0.047461 | 0.050457 | 0.052138 | 0.029484 | 0.028590 | 0.027061 | 0.014741 | 0.087920 | 0.078722 |
| 13 | 0.055980 | 0.041973 | 0.046703 | 0.046703 | 0.042489 | 0.048150 | 0.046877 | 0.025230 | 0.030257 | 0.030204 | 0.013316 | 0.056383 | 0.050902 |
| 14 | 0.048346 | 0.038975 | 0.043446 | 0.043446 | 0.025820 | 0.034428 | 0.024850 | 0.021493 | 0.023951 | 0.025697 | 0.015819 | 0.048250 | 0.043087 |
| 15 | 0.039440 | 0.035005 | 0.047147 | 0.047147 | 0.021687 | 0.035534 | 0.024118 | 0.020881 | 0.018410 | 0.019228 | 0.008020 | 0.028953 | 0.024421 |
| 16 | 0.031807 | 0.031416 | 0.044704 | 0.044704 | 0.018340 | 0.026744 | 0.023407 | 0.014939 | 0.014718 | 0.015792 | 0.014749 | 0.022498 | 0.021618 |
| 17 | 0.034351 | 0.026940 | 0.049737 | 0.049737 | 0.018865 | 0.032592 | 0.020340 | 0.010585 | 0.013232 | 0.013489 | 0.002423 | 0.018760 | 0.016864 |
| 18 | 0.022901 | 0.022380 | 0.047073 | 0.047073 | 0.020074 | 0.029399 | 0.024077 | 0.018568 | 0.013138 | 0.013534 | 0.004155 | 0.025502 | 0.023545 |
| 19 | 0.024173 | 0.019382 | 0.033306 | 0.033306 | 0.019213 | 0.024981 | 0.023017 | 0.015126 | 0.010719 | 0.009828 | 0.015295 | 0.035354 | 0.032228 |
| 20 | 0.019084 | 0.012752 | 0.029383 | 0.029383 | 0.018630 | 0.016064 | 0.018740 | 0.041651 | 0.009528 | 0.009369 | 0.025089 | 0.027142 | 0.024374 |
| 21 | 0.007634 | 0.008867 | 0.018429 | 0.018429 | 0.021810 | 0.013014 | 0.016849 | 0.032722 | 0.003893 | 0.004506 | 0.032878 | 0.020163 | 0.018389 |
| 22 | 0.006361 | 0.007221 | 0.022722 | 0.022722 | 0.012589 | 0.009118 | 0.013911 | 0.026807 | 0.004563 | 0.004678 | 0.024995 | 0.013407 | 0.012671 |
| 23 | 0.012723 | 0.004645 | 0.014655 | 0.014655 | 0.011598 | 0.008880 | 0.014318 | 0.021775 | 0.002344 | 0.002323 | 0.037614 | 0.012108 | 0.012375 |
| 24 | 0.008906 | 0.003420 | 0.013989 | 0.013989 | 0.014297 | 0.008526 | 0.009979 | 0.023111 | 0.002225 | 0.002388 | 0.027548 | 0.012069 | 0.011774 |
| 25 | 0.007634 | 0.002407 | 0.011102 | 0.011102 | 0.012553 | 0.007427 | 0.011144 | 0.020130 | 0.001247 | 0.001414 | 0.025235 | 0.007491 | 0.008079 |
| 26 | 0.001272 | 0.002449 | 0.006883 | 0.006883 | 0.013586 | 0.006348 | 0.011734 | 0.020564 | 0.001003 | 0.001073 | 0.016085 | 0.005785 | 0.006273 |
| 27 | 0.001272 | 0.001267 | 0.006809 | 0.006809 | 0.015041 | 0.004033 | 0.009698 | 0.024014 | 0.000740 | 0.000713 | 0.029126 | 0.003739 | 0.003870 |
| 28 | 0.002545 | 0.001267 | 0.003923 | 0.003923 | 0.008463 | 0.002432 | 0.004923 | 0.018979 | 0.000677 | 0.000730 | 0.044065 | 0.002912 | 0.003640 |
| 29 | 0.002545 | 0.000845 | 0.003479 | 0.003479 | 0.006459 | 0.001206 | 0.004341 | 0.011447 | 0.000533 | 0.000653 | 0.019310 | 0.002335 | 0.003493 |
| 30 | 0.021628 | 0.007854 | 0.017985 | 0.017985 | 0.017635 | 0.001542 | 0.010061 | 0.013416 | 0.002564 | 0.003525 | 0.031075 | 0.008160 | 0.016255 |

Texas Statewide 2011 Fuel Engine Fractions Summary by Model Year.

| SUT | Fuel Type | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.90306 | 0.93570 | 0.94665 | 0.94784 | 0.96924 | 0.95752 | 0.98121 | 0.98710 | 0.98163 | 0.98742 | 0.98724 | 0.98443 | 0.98118 | 0.98877 | 0.99909 | 0.99876 |
| PC | Diesel | 0.01177 | 0.01061 | 0.00779 | 0.00069 | 0.00047 | 0.00695 | 0.00491 | 0.00338 | 0.00416 | 0.00464 | 0.00335 | 0.00309 | 0.00188 | 0.00221 | 0.00091 | 0.00124 |
| PT | Gas | 0.75726 | 0.79406 | 0.84100 | 0.88674 | 0.85626 | 0.91131 | 0.91051 | 0.89189 | 0.85736 | 0.87238 | 0.92153 | 0.90560 | 0.90991 | 0.97211 | 0.95551 | 0.95753 |
| PT | Diesel | 0.02341 | 0.01328 | 0.01718 | 0.03004 | 0.02790 | 0.04402 | 0.03595 | 0.04059 | 0.03865 | 0.03470 | 0.04103 | 0.02973 | 0.03925 | 0.01280 | 0.04449 | 0.04247 |
| LCT | Gas | 0.62303 | 0.63823 | 0.76558 | 0.81321 | 0.81565 | 0.85179 | 0.86984 | 0.85968 | 0.84007 | 0.84304 | 0.88196 | 0.87280 | 0.86328 | 0.94144 | 0.89876 | 0.90704 |
| LCT | Diesel | 0.06012 | 0.03476 | 0.04654 | 0.08017 | 0.06792 | 0.09978 | 0.08519 | 0.09267 | 0.08413 | 0.08484 | 0.08819 | 0.07731 | 0.09860 | 0.04495 | 0.10124 | 0.09296 |
| OBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBus | Gas | 0.03143 | 0.03886 | 0.02749 | 0.01298 | 0.00778 | 0.01011 | 0.00660 | 0.00377 | 0.00554 | 0.02596 | 0.01166 | 0.02569 | 0.01000 | 0.01000 | 0.01000 | 0.04154 |
| SBus | Diesel | 0.96857 | 0.96114 | 0.97251 | 0.98702 | 0.99222 | 0.98989 | 0.99340 | 0.99623 | 0.99446 | 0.97404 | 0.98834 | 0.97431 | 0.99000 | 0.99000 | 0.99000 | 0.95846 |
| RT | Gas | 0.00000 | 0.00000 | 0.00460 | 0.00204 | 0.00234 | 0.00086 | 0.00067 | 0.00000 | 0.00036 | 0.00000 | 0.00000 | 0.00000 | 0.16880 | 0.40357 | 0.01932 | 0.02529 |
| RT | Diesel | 1.00000 | 1.00000 | 0.99540 | 0.99796 | 0.99766 | 0.99914 | 0.99933 | 1.00000 | 0.99964 | 1.00000 | 1.00000 | 1.00000 | 0.83120 | 0.59643 | 0.98068 | 0.97471 |
| SUSHT | Gas | 0.28371 | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 |
| SUSHT | Diesel | 0.71629 | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 |
| SULHT | Gas | 0.28371 | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 |
| SULHT | Diesel | 0.71629 | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 |
| MH | Gas | 0.70133 | 0.00585 | 0.53388 | 0.38083 | 0.44201 | 0.57780 | 0.34935 | 0.60161 | 0.56194 | 0.60280 | 0.54586 | 0.65392 | 0.79746 | 0.64940 | 0.83607 | 0.80080 |
| MH | Diesel | 0.29867 | 0.99415 | 0.46612 | 0.61917 | 0.55799 | 0.42220 | 0.65065 | 0.39839 | 0.43806 | 0.39720 | 0.45414 | 0.34608 | 0.20254 | 0.35060 | 0.16393 | 0.19920 |
| CSHT | Gas | 0.06454 | 0.07675 | 0.07693 | 0.07895 | 0.05434 | 0.06493 | 0.06068 | 0.07687 | 0.08587 | 0.09318 | 0.09572 | 0.11042 | 0.11049 | 0.10920 | 0.12175 | 0.11853 |
| CSHT | Diesel | 0.93546 | 0.92325 | 0.92307 | 0.92105 | 0.94566 | 0.93507 | 0.93932 | 0.92313 | 0.91413 | 0.90682 | 0.90428 | 0.88958 | 0.88951 | 0.89080 | 0.87825 | 0.88147 |
| CLHT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2011 Fuel Engine Fractions Summary by Model Year - Continued

| SUT | Fuel Type | 1995 | 1994 | 1993 | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.99906 | 0.99985 | 0.99931 | 0.99883 | 0.99718 | 0.99894 | 0.99909 | 0.99974 | 0.98723 | 0.99112 | 0.96625 | 0.95565 | 0.92268 | 0.89328 | 0.92360 |
| PC | Diesel | 0.00094 | 0.00015 | 0.00069 | 0.00117 | 0.00282 | 0.00106 | 0.00091 | 0.00026 | 0.01277 | 0.00888 | 0.03375 | 0.04435 | 0.07732 | 0.10672 | 0.07640 |
| PT | Gas | 0.96088 | 0.96624 | 0.95751 | 0.96186 | 0.96598 | 0.96917 | 0.97412 | 0.98041 | 0.97672 | 0.95048 | 0.94678 | 0.93418 | 0.92336 | 0.88046 | 0.94928 |
| PT | Diesel | 0.03912 | 0.03376 | 0.04249 | 0.03814 | 0.03402 | 0.03083 | 0.02588 | 0.01959 | 0.02328 | 0.04952 | 0.05322 | 0.06582 | 0.07664 | 0.11954 | 0.05072 |
| LCT | Gas | 0.90831 | 0.92119 | 0.90559 | 0.92221 | 0.91873 | 0.92593 | 0.93758 | 0.93686 | 0.93504 | 0.86194 | 0.86903 | 0.86054 | 0.92322 | 0.91890 | 0.98055 |
| LCT | Diesel | 0.09169 | 0.07881 | 0.09441 | 0.07779 | 0.08127 | 0.07407 | 0.06242 | 0.06314 | 0.06496 | 0.13806 | 0.13097 | 0.13946 | 0.07678 | 0.08110 | 0.01945 |
| OBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBus | Gas | 0.11428 | 0.14748 | 0.12054 | 0.01004 | 0.08954 | 0.12404 | 0.22904 | 0.24977 | 0.26555 | 0.32671 | 0.48445 | 0.61548 | 0.67620 | 0.67404 | 0.73606 |
| SBus | Diesel | 0.88572 | 0.85252 | 0.87946 | 0.98996 | 0.91046 | 0.87596 | 0.77096 | 0.75023 | 0.73445 | 0.67329 | 0.51555 | 0.38452 | 0.32380 | 0.32596 | 0.26394 |
| RT | Gas | 0.02354 | 0.10504 | 0.03148 | 0.21028 | 0.10123 | 0.20399 | 0.02945 | 0.11391 | 0.11412 | 0.07103 | 0.05865 | 0.06076 | 0.10813 | 0.09538 | 0.04000 |
| RT | Diesel | 0.97646 | 0.89496 | 0.96852 | 0.78972 | 0.89877 | 0.79601 | 0.97055 | 0.88609 | 0.88588 | 0.92897 | 0.94135 | 0.93924 | 0.89187 | 0.90462 | 0.96000 |
| SUSHT | Gas | 0.62329 | 0.50178 | 0.49004 | 0.49383 | 0.50690 | 0.54528 | 0.78230 | 0.78230 | 0.78230 | 0.78230 | 0.78230 | 0.78230 | 0.78230 | 0.78230 | 0.78230 |
| SUSHT | Diesel | 0.37671 | 0.49822 | 0.50996 | 0.50617 | 0.49310 | 0.45472 | 0.21770 | 0.21770 | 0.21770 | 0.21770 | 0.21770 | 0.21770 | 0.21770 | 0.21770 | 0.21770 |
| SULHT | Gas | 0.62329 | 0.50178 | 0.49004 | 0.49383 | 0.50690 | 0.54528 | 0.78230 | 0.78230 | 0.78230 | 0.78230 | 0.78230 | 0.78230 | 0.78230 | 0.78230 | 0.78230 |
| SULHT | Diesel | 0.37671 | 0.49822 | 0.50996 | 0.50617 | 0.49310 | 0.45472 | 0.21770 | 0.21770 | 0.21770 | 0.21770 | 0.21770 | 0.21770 | 0.21770 | 0.21770 | 0.21770 |
| MH | Gas | 0.85102 | 0.80835 | 0.72757 | 0.78687 | 0.84972 | 0.91993 | 0.95133 | 0.98056 | 0.99176 | 0.98963 | 0.99404 | 0.99606 | 0.99335 | 0.97222 | 0.97796 |
| MH | Diesel | 0.14898 | 0.19165 | 0.27243 | 0.21313 | 0.15028 | 0.08007 | 0.04867 | 0.01944 | 0.00824 | 0.01037 | 0.00596 | 0.00394 | 0.00665 | 0.02778 | 0.02204 |
| CShT | Gas | 0.20831 | 0.10032 | 0.10421 | 0.11622 | 0.14152 | 0.13698 | 0.25559 | 0.25559 | 0.25559 | 0.25559 | 0.25559 | 0.25559 | 0.25559 | 0.25559 | 0.25559 |
| CShT | Diesel | 0.79169 | 0.89968 | 0.89579 | 0.88378 | 0.85848 | 0.86302 | 0.74441 | 0.74441 | 0.74441 | 0.74441 | 0.74441 | 0.74441 | 0.74441 | 0.74441 | 0.74441 |
| CLHT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2017 Fuel Engine Fractions Summary

| SUT | Fuel Type | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.96977 | 0.94863 | 0.93751 | 0.94365 | 0.94020 | 0.93965 | 0.90306 | 0.93570 | 0.94665 | 0.94784 | 0.96924 | 0.95752 | 0.98121 | 0.98710 | 0.98163 | 0.98742 |
| PC | Diesel | 0.00026 | 0.00121 | 0.02417 | 0.01499 | 0.01354 | 0.01261 | 0.01177 | 0.01061 | 0.00779 | 0.00069 | 0.00047 | 0.00695 | 0.00491 | 0.00338 | 0.00416 | 0.00464 |
| PT | Gas | 0.84358 | 0.82315 | 0.76837 | 0.77491 | 0.69407 | 0.68589 | 0.75726 | 0.79406 | 0.84100 | 0.88674 | 0.85626 | 0.91131 | 0.91051 | 0.89189 | 0.85736 | 0.87238 |
| PT | Diesel | 0.03894 | 0.03474 | 0.03031 | 0.02373 | 0.02009 | 0.02645 | 0.02341 | 0.01328 | 0.01718 | 0.03004 | 0.02790 | 0.04402 | 0.03595 | 0.04059 | 0.03865 | 0.03470 |
| LCT | Gas | 0.84358 | 0.82315 | 0.76837 | 0.61614 | 0.59432 | 0.62654 | 0.62303 | 0.63823 | 0.76558 | 0.81321 | 0.81565 | 0.85179 | 0.86984 | 0.85968 | 0.84007 | 0.84304 |
| LCT | Diesel | 0.03894 | 0.03474 | 0.03031 | 0.02627 | 0.03117 | 0.05619 | 0.06012 | 0.03476 | 0.04654 | 0.08017 | 0.06792 | 0.09978 | 0.08519 | 0.09267 | 0.08413 | 0.08484 |
| OBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBUS | Gas | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.03703 | 0.04500 | 0.03143 | 0.03886 | 0.02749 | 0.01298 | 0.00778 | 0.01011 | 0.00660 | 0.00377 | 0.00554 | 0.02596 |
| SBUS | Diesel | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.96297 | 0.95500 | 0.96857 | 0.96114 | 0.97251 | 0.98702 | 0.99222 | 0.98989 | 0.99340 | 0.99623 | 0.99446 | 0.97404 |
| RT | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00659 | 0.00000 | 0.00000 | 0.00000 | 0.00460 | 0.00204 | 0.00234 | 0.00086 | 0.00067 | 0.00000 | 0.00036 | 0.00000 |
| RT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 0.99341 | 1.00000 | 1.00000 | 1.00000 | 0.99540 | 0.99796 | 0.99766 | 0.99914 | 0.99933 | 1.00000 | 0.99964 | 1.00000 |
| SUSHT | Gas | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 | 0.28371 | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 | 0.27492 |
| SUSHT | Diesel | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 | 0.71629 | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 | 0.72508 |
| SULHT | Gas | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 | 0.28371 | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 | 0.27492 |
| SULHT | Diesel | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 | 0.71629 | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 | 0.72508 |
| MH | Gas | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.70761 | 0.72513 | 0.70133 | 0.00585 | 0.53388 | 0.38083 | 0.44201 | 0.57780 | 0.34935 | 0.60161 | 0.56194 | 0.60280 |
| MH | Diesel | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.29239 | 0.27487 | 0.29867 | 0.99415 | 0.46612 | 0.61917 | 0.55799 | 0.42220 | 0.65065 | 0.39839 | 0.43806 | 0.39720 |
| CSHT | Gas | 0.10616 | 0.09304 | 0.07303 | 0.09762 | 0.08697 | 0.08114 | 0.06454 | 0.07675 | 0.07693 | 0.07895 | 0.05434 | 0.06493 | 0.06068 | 0.07687 | 0.08587 | 0.09318 |
| CSHT | Diesel | 0.89384 | 0.90696 | 0.92697 | 0.90238 | 0.91303 | 0.91886 | 0.93546 | 0.92325 | 0.92307 | 0.92105 | 0.94566 | 0.93507 | 0.93932 | 0.92313 | 0.91413 | 0.90682 |
| CLHT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2017 Fuel Engine Fractions Summary – Continued

| SUT | Fuel Type | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.98724 | 0.98443 | 0.98118 | 0.98877 | 0.99909 | 0.99876 | 0.99906 | 0.99985 | 0.99931 | 0.99883 | 0.99718 | 0.99894 | 0.99909 | 0.99974 | 0.98723 |
| PC | Diesel | 0.00335 | 0.00309 | 0.00188 | 0.00221 | 0.00091 | 0.00124 | 0.00094 | 0.00015 | 0.00069 | 0.00117 | 0.00282 | 0.00106 | 0.00091 | 0.00026 | 0.01277 |
| PT | Gas | 0.92153 | 0.90560 | 0.90991 | 0.97211 | 0.95551 | 0.95753 | 0.96088 | 0.96624 | 0.95751 | 0.96186 | 0.96598 | 0.96917 | 0.97412 | 0.98041 | 0.97672 |
| PT | Diesel | 0.04103 | 0.02973 | 0.03925 | 0.01280 | 0.04449 | 0.04247 | 0.03912 | 0.03376 | 0.04249 | 0.03814 | 0.03402 | 0.03083 | 0.02588 | 0.01959 | 0.02328 |
| LCT | Gas | 0.88196 | 0.87280 | 0.86328 | 0.94144 | 0.89876 | 0.90704 | 0.90831 | 0.92119 | 0.90559 | 0.92221 | 0.91873 | 0.92593 | 0.93758 | 0.93686 | 0.93504 |
| LCT | Diesel | 0.08819 | 0.07731 | 0.09860 | 0.04495 | 0.10124 | 0.09296 | 0.09169 | 0.07881 | 0.09441 | 0.07779 | 0.08127 | 0.07407 | 0.06242 | 0.06314 | 0.06496 |
| OBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBus | Gas | 0.01166 | 0.02569 | 0.01000 | 0.01000 | 0.01000 | 0.04154 | 0.11428 | 0.14748 | 0.12054 | 0.01004 | 0.08954 | 0.12404 | 0.22904 | 0.24977 | 0.26555 |
| SBus | Diesel | 0.98834 | 0.97431 | 0.99000 | 0.99000 | 0.99000 | 0.95846 | 0.88572 | 0.85252 | 0.87946 | 0.98996 | 0.91046 | 0.87596 | 0.77096 | 0.75023 | 0.73445 |
| RT | Gas | 0.00000 | 0.00000 | 0.16880 | 0.40357 | 0.01932 | 0.02529 | 0.02354 | 0.10504 | 0.03148 | 0.21028 | 0.10123 | 0.20399 | 0.02945 | 0.11391 | 0.11412 |
| RT | Diesel | 1.00000 | 1.00000 | 0.83120 | 0.59643 | 0.98068 | 0.97471 | 0.97646 | 0.89496 | 0.96852 | 0.78972 | 0.89877 | 0.79601 | 0.97055 | 0.88609 | 0.88588 |
| SUSHT | Gas | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 | 0.62329 | 0.50178 | 0.49004 | 0.49383 | 0.50690 | 0.54528 | 0.78230 | 0.78230 | 0.78230 |
| SUSHT | Diesel | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 | 0.37671 | 0.49822 | 0.50996 | 0.50617 | 0.49310 | 0.45472 | 0.21770 | 0.21770 | 0.21770 |
| SULHT | Gas | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 | 0.62329 | 0.50178 | 0.49004 | 0.49383 | 0.50690 | 0.54528 | 0.78230 | 0.78230 | 0.78230 |
| SULHT | Diesel | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 | 0.37671 | 0.49822 | 0.50996 | 0.50617 | 0.49310 | 0.45472 | 0.21770 | 0.21770 | 0.21770 |
| MH | Gas | 0.54586 | 0.65392 | 0.79746 | 0.64940 | 0.83607 | 0.80080 | 0.85102 | 0.80835 | 0.72757 | 0.78687 | 0.84972 | 0.91993 | 0.95133 | 0.98056 | 0.99176 |
| MH | Diesel | 0.45414 | 0.34608 | 0.20254 | 0.35060 | 0.16393 | 0.19920 | 0.14898 | 0.19165 | 0.27243 | 0.21313 | 0.15028 | 0.08007 | 0.04867 | 0.01944 | 0.00824 |
| CShT | Gas | 0.09572 | 0.11042 | 0.11049 | 0.10920 | 0.12175 | 0.11853 | 0.20831 | 0.10032 | 0.10421 | 0.11622 | 0.14152 | 0.13698 | 0.25559 | 0.25559 | 0.25559 |
| CShT | Diesel | 0.90428 | 0.88958 | 0.88951 | 0.89080 | 0.87825 | 0.88147 | 0.79169 | 0.89968 | 0.89579 | 0.88378 | 0.85848 | 0.86302 | 0.74441 | 0.74441 | 0.74441 |
| CLhT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2018 Fuel Engine Fractions Summary

| SUT | Fuel Type | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.96933 | 0.96977 | 0.94863 | 0.93751 | 0.94365 | 0.94020 | 0.93965 | 0.90306 | 0.93570 | 0.94665 | 0.94784 | 0.96924 | 0.95752 | 0.98121 | 0.98710 | 0.98163 |
| PC | Diesel | 0.00108 | 0.00026 | 0.00121 | 0.02417 | 0.01499 | 0.01354 | 0.01261 | 0.01177 | 0.01061 | 0.00779 | 0.00069 | 0.00047 | 0.00695 | 0.00491 | 0.00338 | 0.00416 |
| PT | Gas | 0.83585 | 0.84358 | 0.82315 | 0.76837 | 0.77491 | 0.69407 | 0.68589 | 0.75726 | 0.79406 | 0.84100 | 0.88674 | 0.85626 | 0.91131 | 0.91051 | 0.89189 | 0.85736 |
| PT | Diesel | 0.04653 | 0.03894 | 0.03474 | 0.03031 | 0.02373 | 0.02009 | 0.02645 | 0.02341 | 0.01328 | 0.01718 | 0.03004 | 0.02790 | 0.04402 | 0.03595 | 0.04059 | 0.03865 |
| LCT | Gas | 0.83585 | 0.84358 | 0.82315 | 0.76837 | 0.61614 | 0.59432 | 0.62654 | 0.62303 | 0.63823 | 0.76558 | 0.81321 | 0.81565 | 0.85179 | 0.86984 | 0.85968 | 0.84007 |
| LCT | Diesel | 0.04653 | 0.03894 | 0.03474 | 0.03031 | 0.02627 | 0.03117 | 0.05619 | 0.06012 | 0.03476 | 0.04654 | 0.08017 | 0.06792 | 0.09978 | 0.08519 | 0.09267 | 0.08413 |
| OBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBUS | Gas | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.03703 | 0.04500 | 0.03143 | 0.03886 | 0.02749 | 0.01298 | 0.00778 | 0.01011 | 0.00660 | 0.00377 | 0.00554 |
| SBUS | Diesel | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.96297 | 0.95500 | 0.96857 | 0.96114 | 0.97251 | 0.98702 | 0.99222 | 0.98989 | 0.99340 | 0.99623 | 0.99446 |
| RT | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00659 | 0.00000 | 0.00000 | 0.00000 | 0.00460 | 0.00204 | 0.00234 | 0.00086 | 0.00067 | 0.00000 | 0.00036 |
| RT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 0.99341 | 1.00000 | 1.00000 | 1.00000 | 0.99540 | 0.99796 | 0.99766 | 0.99914 | 0.99933 | 1.00000 | 0.99964 |
| SUSHT | Gas | 0.47430 | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 | 0.28371 | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 |
| SUSHT | Diesel | 0.52570 | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 | 0.71629 | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 |
| SULHT | Gas | 0.47430 | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 | 0.28371 | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 |
| SULHT | Diesel | 0.52570 | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 | 0.71629 | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 |
| MH | Gas | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.70761 | 0.72513 | 0.70133 | 0.00585 | 0.53388 | 0.38083 | 0.44201 | 0.57780 | 0.34935 | 0.60161 | 0.56194 |
| MH | Diesel | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.29239 | 0.27487 | 0.29867 | 0.99415 | 0.46612 | 0.61917 | 0.55799 | 0.42220 | 0.65065 | 0.39839 | 0.43806 |
| CSHT | Gas | 0.09098 | 0.10616 | 0.09304 | 0.07303 | 0.09762 | 0.08697 | 0.08114 | 0.06454 | 0.07675 | 0.07693 | 0.07895 | 0.05434 | 0.06493 | 0.06068 | 0.07687 | 0.08587 |
| CSHT | Diesel | 0.90902 | 0.89384 | 0.90696 | 0.92697 | 0.90238 | 0.91303 | 0.91886 | 0.93546 | 0.92325 | 0.92307 | 0.92105 | 0.94566 | 0.93507 | 0.93932 | 0.92313 | 0.91413 |
| CLHT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2018 Fuel Engine Fractions Summary – Continued

| SUT | Fuel Type | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 | 1991 | 1990 | 1989 | 1988 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.98742 | 0.98724 | 0.98443 | 0.98118 | 0.98877 | 0.99909 | 0.99876 | 0.99906 | 0.99985 | 0.99931 | 0.99883 | 0.99718 | 0.99894 | 0.99909 | 0.99974 |
| PC | Diesel | 0.00464 | 0.00335 | 0.00309 | 0.00188 | 0.00221 | 0.00091 | 0.00124 | 0.00094 | 0.00015 | 0.00069 | 0.00117 | 0.00282 | 0.00106 | 0.00091 | 0.00026 |
| PT | Gas | 0.87238 | 0.92153 | 0.90560 | 0.90991 | 0.97211 | 0.95551 | 0.95753 | 0.96088 | 0.96624 | 0.95751 | 0.96186 | 0.96598 | 0.96917 | 0.97412 | 0.98041 |
| PT | Diesel | 0.03470 | 0.04103 | 0.02973 | 0.03925 | 0.01280 | 0.04449 | 0.04247 | 0.03912 | 0.03376 | 0.04249 | 0.03814 | 0.03402 | 0.03083 | 0.02588 | 0.01959 |
| LCT | Gas | 0.84304 | 0.88196 | 0.87280 | 0.86328 | 0.94144 | 0.89876 | 0.90704 | 0.90831 | 0.92119 | 0.90559 | 0.92221 | 0.91873 | 0.92593 | 0.93758 | 0.93686 |
| LCT | Diesel | 0.08484 | 0.08819 | 0.07731 | 0.09860 | 0.04495 | 0.10124 | 0.09296 | 0.09169 | 0.07881 | 0.09441 | 0.07779 | 0.08127 | 0.07407 | 0.06242 | 0.06314 |
| OBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBus | Gas | 0.02596 | 0.01166 | 0.02569 | 0.01000 | 0.01000 | 0.01000 | 0.04154 | 0.11428 | 0.14748 | 0.12054 | 0.01004 | 0.08954 | 0.12404 | 0.22904 | 0.24977 |
| SBus | Diesel | 0.97404 | 0.98834 | 0.97431 | 0.99000 | 0.99000 | 0.99000 | 0.95846 | 0.88572 | 0.85252 | 0.87946 | 0.98996 | 0.91046 | 0.87596 | 0.77096 | 0.75023 |
| RT | Gas | 0.00000 | 0.00000 | 0.00000 | 0.16880 | 0.40357 | 0.01932 | 0.02529 | 0.02354 | 0.10504 | 0.03148 | 0.21028 | 0.10123 | 0.20399 | 0.02945 | 0.11391 |
| RT | Diesel | 1.00000 | 1.00000 | 1.00000 | 0.83120 | 0.59643 | 0.98068 | 0.97471 | 0.97646 | 0.89496 | 0.96852 | 0.78972 | 0.89877 | 0.79601 | 0.97055 | 0.88609 |
| SUSHT | Gas | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 | 0.62329 | 0.50178 | 0.49004 | 0.49383 | 0.50690 | 0.54528 | 0.78230 | 0.78230 |
| SUSHT | Diesel | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 | 0.37671 | 0.49822 | 0.50996 | 0.50617 | 0.49310 | 0.45472 | 0.21770 | 0.21770 |
| SULHT | Gas | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 | 0.62329 | 0.50178 | 0.49004 | 0.49383 | 0.50690 | 0.54528 | 0.78230 | 0.78230 |
| SULHT | Diesel | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 | 0.37671 | 0.49822 | 0.50996 | 0.50617 | 0.49310 | 0.45472 | 0.21770 | 0.21770 |
| MH | Gas | 0.60280 | 0.54586 | 0.65392 | 0.79746 | 0.64940 | 0.83607 | 0.80080 | 0.85102 | 0.80835 | 0.72757 | 0.78687 | 0.84972 | 0.91993 | 0.95133 | 0.98056 |
| MH | Diesel | 0.39720 | 0.45414 | 0.34608 | 0.20254 | 0.35060 | 0.16393 | 0.19920 | 0.14898 | 0.19165 | 0.27243 | 0.21313 | 0.15028 | 0.08007 | 0.04867 | 0.01944 |
| CShT | Gas | 0.09318 | 0.09572 | 0.11042 | 0.11049 | 0.10920 | 0.12175 | 0.11853 | 0.20831 | 0.10032 | 0.10421 | 0.11622 | 0.14152 | 0.13698 | 0.25559 | 0.25559 |
| CShT | Diesel | 0.90682 | 0.90428 | 0.88958 | 0.88951 | 0.89080 | 0.87825 | 0.88147 | 0.79169 | 0.89968 | 0.89579 | 0.88378 | 0.85848 | 0.86302 | 0.74441 | 0.74441 |
| CLhT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2020 Fuel Engine Fractions Summary

| SUT | Fuel Type | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.96427 | 0.96679 | 0.96933 | 0.96977 | 0.94863 | 0.93751 | 0.94365 | 0.94020 | 0.93965 | 0.90306 | 0.93570 | 0.94665 | 0.94784 | 0.96924 | 0.95752 | 0.98121 |
| PC | Diesel | 0.00570 | 0.00334 | 0.00108 | 0.00026 | 0.00121 | 0.02417 | 0.01499 | 0.01354 | 0.01261 | 0.01177 | 0.01061 | 0.00779 | 0.00069 | 0.00047 | 0.00695 | 0.00491 |
| PT | Gas | 0.82007 | 0.82756 | 0.83585 | 0.84358 | 0.82315 | 0.76837 | 0.77491 | 0.69407 | 0.68589 | 0.75726 | 0.79406 | 0.84100 | 0.88674 | 0.85626 | 0.91131 | 0.91051 |
| PT | Diesel | 0.06285 | 0.05514 | 0.04653 | 0.03894 | 0.03474 | 0.03031 | 0.02373 | 0.02009 | 0.02645 | 0.02341 | 0.01328 | 0.01718 | 0.03004 | 0.02790 | 0.04402 | 0.03595 |
| LCT | Gas | 0.82007 | 0.82756 | 0.83585 | 0.84358 | 0.82315 | 0.76837 | 0.61614 | 0.59432 | 0.62654 | 0.62303 | 0.63823 | 0.76558 | 0.81321 | 0.81565 | 0.85179 | 0.86984 |
| LCT | Diesel | 0.06285 | 0.05514 | 0.04653 | 0.03894 | 0.03474 | 0.03031 | 0.02627 | 0.03117 | 0.05619 | 0.06012 | 0.03476 | 0.04654 | 0.08017 | 0.06792 | 0.09978 | 0.08519 |
| OBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBUS | Gas | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.03703 | 0.04500 | 0.03143 | 0.03886 | 0.02749 | 0.01298 | 0.00778 | 0.01011 | 0.00660 |
| SBUS | Diesel | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.96297 | 0.95500 | 0.96857 | 0.96114 | 0.97251 | 0.98702 | 0.99222 | 0.98989 | 0.99340 |
| RT | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00659 | 0.00000 | 0.00000 | 0.00000 | 0.00460 | 0.00204 | 0.00234 | 0.00086 | 0.00067 |
| RT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 0.99341 | 1.00000 | 1.00000 | 1.00000 | 0.99540 | 0.99796 | 0.99766 | 0.99914 | 0.99933 |
| SUSHT | Gas | 0.51864 | 0.51864 | 0.47430 | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 | 0.28371 | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 |
| SUSHT | Diesel | 0.48136 | 0.48136 | 0.52570 | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 | 0.71629 | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 |
| SULHT | Gas | 0.51864 | 0.51864 | 0.47430 | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 | 0.28371 | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 |
| SULHT | Diesel | 0.48136 | 0.48136 | 0.52570 | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 | 0.71629 | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 |
| MH | Gas | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.70761 | 0.72513 | 0.70133 | 0.00585 | 0.53388 | 0.38083 | 0.44201 | 0.57780 | 0.34935 |
| MH | Diesel | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.29239 | 0.27487 | 0.29867 | 0.99415 | 0.46612 | 0.61917 | 0.55799 | 0.42220 | 0.65065 |
| CSHT | Gas | 0.08061 | 0.08061 | 0.09098 | 0.10616 | 0.09304 | 0.07303 | 0.09762 | 0.08697 | 0.08114 | 0.06454 | 0.07675 | 0.07693 | 0.07895 | 0.05434 | 0.06493 | 0.06068 |
| CSHT | Diesel | 0.91939 | 0.91939 | 0.90902 | 0.89384 | 0.90696 | 0.92697 | 0.90238 | 0.91303 | 0.91886 | 0.93546 | 0.92325 | 0.92307 | 0.92105 | 0.94566 | 0.93507 | 0.93932 |
| CLHT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2020 Fuel Engine Fractions Summary – Continued

| SUT | Fuel Type | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 | 1991 | 1990 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.98710 | 0.98163 | 0.98742 | 0.98724 | 0.98443 | 0.98118 | 0.98877 | 0.99909 | 0.99876 | 0.99906 | 0.99985 | 0.99931 | 0.99883 | 0.99718 | 0.99894 |
| PC | Diesel | 0.00338 | 0.00416 | 0.00464 | 0.00335 | 0.00309 | 0.00188 | 0.00221 | 0.00091 | 0.00124 | 0.00094 | 0.00015 | 0.00069 | 0.00117 | 0.00282 | 0.00106 |
| PT | Gas | 0.89189 | 0.85736 | 0.87238 | 0.92153 | 0.90560 | 0.90991 | 0.97211 | 0.95551 | 0.95753 | 0.96088 | 0.96624 | 0.95751 | 0.96186 | 0.96598 | 0.96917 |
| PT | Diesel | 0.04059 | 0.03865 | 0.03470 | 0.04103 | 0.02973 | 0.03925 | 0.01280 | 0.04449 | 0.04247 | 0.03912 | 0.03376 | 0.04249 | 0.03814 | 0.03402 | 0.03083 |
| LCT | Gas | 0.85968 | 0.84007 | 0.84304 | 0.88196 | 0.87280 | 0.86328 | 0.94144 | 0.89876 | 0.90704 | 0.90831 | 0.92119 | 0.90559 | 0.92221 | 0.91873 | 0.92593 |
| LCT | Diesel | 0.09267 | 0.08413 | 0.08484 | 0.08819 | 0.07731 | 0.09860 | 0.04495 | 0.10124 | 0.09296 | 0.09169 | 0.07881 | 0.09441 | 0.07779 | 0.08127 | 0.07407 |
| OBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBus | Gas | 0.00377 | 0.00554 | 0.02596 | 0.01166 | 0.02569 | 0.01000 | 0.01000 | 0.01000 | 0.04154 | 0.11428 | 0.14748 | 0.12054 | 0.01004 | 0.08954 | 0.12404 |
| SBus | Diesel | 0.99623 | 0.99446 | 0.97404 | 0.98834 | 0.97431 | 0.99000 | 0.99000 | 0.99000 | 0.95846 | 0.88572 | 0.85252 | 0.87946 | 0.98996 | 0.91046 | 0.87596 |
| RT | Gas | 0.00000 | 0.00036 | 0.00000 | 0.00000 | 0.00000 | 0.16880 | 0.40357 | 0.01932 | 0.02529 | 0.02354 | 0.10504 | 0.03148 | 0.21028 | 0.10123 | 0.20399 |
| RT | Diesel | 1.00000 | 0.99964 | 1.00000 | 1.00000 | 1.00000 | 0.83120 | 0.59643 | 0.98068 | 0.97471 | 0.97646 | 0.89496 | 0.96852 | 0.78972 | 0.89877 | 0.79601 |
| SUSHT | Gas | 0.25725 | 0.25116 | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 | 0.62329 | 0.50178 | 0.49004 | 0.49383 | 0.50690 | 0.54528 |
| SUSHT | Diesel | 0.74275 | 0.74884 | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 | 0.37671 | 0.49822 | 0.50996 | 0.50617 | 0.49310 | 0.45472 |
| SULHT | Gas | 0.25725 | 0.25116 | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 | 0.62329 | 0.50178 | 0.49004 | 0.49383 | 0.50690 | 0.54528 |
| SULHT | Diesel | 0.74275 | 0.74884 | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 | 0.37671 | 0.49822 | 0.50996 | 0.50617 | 0.49310 | 0.45472 |
| MH | Gas | 0.60161 | 0.56194 | 0.60280 | 0.54586 | 0.65392 | 0.79746 | 0.64940 | 0.83607 | 0.80080 | 0.85102 | 0.80835 | 0.72757 | 0.78687 | 0.84972 | 0.91993 |
| MH | Diesel | 0.39839 | 0.43806 | 0.39720 | 0.45414 | 0.34608 | 0.20254 | 0.35060 | 0.16393 | 0.19920 | 0.14898 | 0.19165 | 0.27243 | 0.21313 | 0.15028 | 0.08007 |
| CShT | Gas | 0.07687 | 0.08587 | 0.09318 | 0.09572 | 0.11042 | 0.11049 | 0.10920 | 0.12175 | 0.11853 | 0.20831 | 0.10032 | 0.10421 | 0.11622 | 0.14152 | 0.13698 |
| CShT | Diesel | 0.92313 | 0.91413 | 0.90682 | 0.90428 | 0.88958 | 0.88951 | 0.89080 | 0.87825 | 0.88147 | 0.79169 | 0.89968 | 0.89579 | 0.88378 | 0.85848 | 0.86302 |
| CLHT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2023 Fuel Engine Fractions Summary

| SUT | Fuel Type | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.96022 | 0.96167 | 0.96311 | 0.96427 | 0.96679 | 0.96933 | 0.96977 | 0.94863 | 0.93751 | 0.94365 | 0.94020 | 0.93965 | 0.90306 | 0.93570 | 0.94665 | 0.94784 |
| PC | Diesel | 0.00922 | 0.00779 | 0.00656 | 0.00570 | 0.00334 | 0.00108 | 0.00026 | 0.00121 | 0.02417 | 0.01499 | 0.01354 | 0.01261 | 0.01177 | 0.01061 | 0.00779 | 0.00069 |
| PT | Gas | 0.81557 | 0.81665 | 0.81850 | 0.82007 | 0.82756 | 0.83585 | 0.84358 | 0.82315 | 0.76837 | 0.77491 | 0.69407 | 0.68589 | 0.75726 | 0.79406 | 0.84100 | 0.88674 |
| PT | Diesel | 0.06775 | 0.06632 | 0.06441 | 0.06285 | 0.05514 | 0.04653 | 0.03894 | 0.03474 | 0.03031 | 0.02373 | 0.02009 | 0.02645 | 0.02341 | 0.01328 | 0.01718 | 0.03004 |
| LCT | Gas | 0.81557 | 0.81665 | 0.81850 | 0.82007 | 0.82756 | 0.83585 | 0.84358 | 0.82315 | 0.76837 | 0.61614 | 0.59432 | 0.62654 | 0.62303 | 0.63823 | 0.76558 | 0.81321 |
| LCT | Diesel | 0.06775 | 0.06632 | 0.06441 | 0.06285 | 0.05514 | 0.04653 | 0.03894 | 0.03474 | 0.03031 | 0.02627 | 0.03117 | 0.05619 | 0.06012 | 0.03476 | 0.04654 | 0.08017 |
| OBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBUS | Gas | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.03703 | 0.04500 | 0.03143 | 0.03886 | 0.02749 | 0.01298 |
| SBUS | Diesel | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.96297 | 0.95500 | 0.96857 | 0.96114 | 0.97251 | 0.98702 |
| RT | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00659 | 0.00000 | 0.00000 | 0.00000 | 0.00460 | 0.00204 |
| RT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 0.99341 | 1.00000 | 1.00000 | 1.00000 | 0.99540 | 0.99796 |
| SUSHT | Gas | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.47430 | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 | 0.28371 | 0.33230 | 0.38345 | 0.33104 |
| SUSHT | Diesel | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.52570 | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 | 0.71629 | 0.66770 | 0.61655 | 0.66896 |
| SULHT | Gas | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.47430 | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 | 0.28371 | 0.33230 | 0.38345 | 0.33104 |
| SULHT | Diesel | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.52570 | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 | 0.71629 | 0.66770 | 0.61655 | 0.66896 |
| MH | Gas | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.70761 | 0.72513 | 0.70133 | 0.00585 | 0.53388 | 0.38083 |
| MH | Diesel | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.29239 | 0.27487 | 0.29867 | 0.99415 | 0.46612 | 0.61917 |
| CSHT | Gas | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.09098 | 0.10616 | 0.09304 | 0.07303 | 0.09762 | 0.08697 | 0.08114 | 0.06454 | 0.07675 | 0.07693 | 0.07895 |
| CSHT | Diesel | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.90902 | 0.89384 | 0.90696 | 0.92697 | 0.90238 | 0.91303 | 0.91886 | 0.93546 | 0.92325 | 0.92307 | 0.92105 |
| CLHT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2023 Fuel Engine Fractions Summary – Continued

| SUT | Fuel Type | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.96924 | 0.95752 | 0.98121 | 0.98710 | 0.98163 | 0.98742 | 0.98724 | 0.98443 | 0.98118 | 0.98877 | 0.99909 | 0.99876 | 0.99906 | 0.99985 | 0.99931 |
| PC | Diesel | 0.00047 | 0.00695 | 0.00491 | 0.00338 | 0.00416 | 0.00464 | 0.00335 | 0.00309 | 0.00188 | 0.00221 | 0.00091 | 0.00124 | 0.00094 | 0.00015 | 0.00069 |
| PT | Gas | 0.85626 | 0.91131 | 0.91051 | 0.89189 | 0.85736 | 0.87238 | 0.92153 | 0.90560 | 0.90991 | 0.97211 | 0.95551 | 0.95753 | 0.96088 | 0.96624 | 0.95751 |
| PT | Diesel | 0.02790 | 0.04402 | 0.03595 | 0.04059 | 0.03865 | 0.03470 | 0.04103 | 0.02973 | 0.03925 | 0.01280 | 0.04449 | 0.04247 | 0.03912 | 0.03376 | 0.04249 |
| LCT | Gas | 0.81565 | 0.85179 | 0.86984 | 0.85968 | 0.84007 | 0.84304 | 0.88196 | 0.87280 | 0.86328 | 0.94144 | 0.89876 | 0.90704 | 0.90831 | 0.92119 | 0.90559 |
| LCT | Diesel | 0.06792 | 0.09978 | 0.08519 | 0.09267 | 0.08413 | 0.08484 | 0.08819 | 0.07731 | 0.09860 | 0.04495 | 0.10124 | 0.09296 | 0.09169 | 0.07881 | 0.09441 |
| OBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBus | Gas | 0.00778 | 0.01011 | 0.00660 | 0.00377 | 0.00554 | 0.02596 | 0.01166 | 0.02569 | 0.01000 | 0.01000 | 0.01000 | 0.04154 | 0.11428 | 0.14748 | 0.12054 |
| SBus | Diesel | 0.99222 | 0.98989 | 0.99340 | 0.99623 | 0.99446 | 0.97404 | 0.98834 | 0.97431 | 0.99000 | 0.99000 | 0.99000 | 0.95846 | 0.88572 | 0.85252 | 0.87946 |
| RT | Gas | 0.00234 | 0.00086 | 0.00067 | 0.00000 | 0.00036 | 0.00000 | 0.00000 | 0.00000 | 0.16880 | 0.40357 | 0.01932 | 0.02529 | 0.02354 | 0.10504 | 0.03148 |
| RT | Diesel | 0.99766 | 0.99914 | 0.99933 | 1.00000 | 0.99964 | 1.00000 | 1.00000 | 1.00000 | 0.83120 | 0.59643 | 0.98068 | 0.97471 | 0.97646 | 0.89496 | 0.96852 |
| SUSht | Gas | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 | 0.62329 | 0.50178 | 0.49004 |
| SUSht | Diesel | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 | 0.37671 | 0.49822 | 0.50996 |
| SULht | Gas | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 | 0.62329 | 0.50178 | 0.49004 |
| SULht | Diesel | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 | 0.37671 | 0.49822 | 0.50996 |
| MH | Gas | 0.44201 | 0.57780 | 0.34935 | 0.60161 | 0.56194 | 0.60280 | 0.54586 | 0.65392 | 0.79746 | 0.64940 | 0.83607 | 0.80080 | 0.85102 | 0.80835 | 0.72757 |
| MH | Diesel | 0.55799 | 0.42220 | 0.65065 | 0.39839 | 0.43806 | 0.39720 | 0.45414 | 0.34608 | 0.20254 | 0.35060 | 0.16393 | 0.19920 | 0.14898 | 0.19165 | 0.27243 |
| CShT | Gas | 0.05434 | 0.06493 | 0.06068 | 0.07687 | 0.08587 | 0.09318 | 0.09572 | 0.11042 | 0.11049 | 0.10920 | 0.12175 | 0.11853 | 0.20831 | 0.10032 | 0.10421 |
| CShT | Diesel | 0.94566 | 0.93507 | 0.93932 | 0.92313 | 0.91413 | 0.90682 | 0.90428 | 0.88958 | 0.88951 | 0.89080 | 0.87825 | 0.88147 | 0.79169 | 0.89968 | 0.89579 |
| CLhT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2026 Fuel Engine Fractions Summary

| SUT | Fuel Type | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.95385 | 0.95639 | 0.95860 | 0.96022 | 0.96167 | 0.96311 | 0.96427 | 0.96679 | 0.96933 | 0.96977 | 0.94863 | 0.93751 | 0.94365 | 0.94020 | 0.93965 | 0.90306 |
| PC | Diesel | 0.01530 | 0.01282 | 0.01073 | 0.00922 | 0.00779 | 0.00656 | 0.00570 | 0.00334 | 0.00108 | 0.00026 | 0.00121 | 0.02417 | 0.01499 | 0.01354 | 0.01261 | 0.01177 |
| PT | Gas | 0.81433 | 0.81408 | 0.81494 | 0.81557 | 0.81665 | 0.81850 | 0.82007 | 0.82756 | 0.83585 | 0.84358 | 0.82315 | 0.76837 | 0.77491 | 0.69407 | 0.68589 | 0.75726 |
| PT | Diesel | 0.06864 | 0.06905 | 0.06837 | 0.06775 | 0.06632 | 0.06441 | 0.06285 | 0.05514 | 0.04653 | 0.03894 | 0.03474 | 0.03031 | 0.02373 | 0.02009 | 0.02645 | 0.02341 |
| LCT | Gas | 0.81433 | 0.81408 | 0.81494 | 0.81557 | 0.81665 | 0.81850 | 0.82007 | 0.82756 | 0.83585 | 0.84358 | 0.82315 | 0.76837 | 0.61614 | 0.59432 | 0.62654 | 0.62303 |
| LCT | Diesel | 0.06864 | 0.06905 | 0.06837 | 0.06775 | 0.06632 | 0.06441 | 0.06285 | 0.05514 | 0.04653 | 0.03894 | 0.03474 | 0.03031 | 0.02627 | 0.03117 | 0.05619 | 0.06012 |
| OBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBUS | Gas | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.03703 | 0.04500 | 0.03143 |
| SBUS | Diesel | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.96297 | 0.95500 | 0.96857 |
| RT | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00659 | 0.00000 | 0.00000 |
| RT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 0.99341 | 1.00000 | 1.00000 |
| SUSHT | Gas | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.47430 | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 | 0.28371 |
| SUSHT | Diesel | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.52570 | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 | 0.71629 |
| SULHT | Gas | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.47430 | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 | 0.28371 |
| SULHT | Diesel | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.52570 | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 | 0.71629 |
| MH | Gas | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.70761 | 0.72513 | 0.70133 |
| MH | Diesel | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.29239 | 0.27487 | 0.29867 |
| CSHT | Gas | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.09098 | 0.10616 | 0.09304 | 0.07303 | 0.09762 | 0.08697 | 0.08114 | 0.06454 |
| CSHT | Diesel | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.90902 | 0.89384 | 0.90696 | 0.92697 | 0.90238 | 0.91303 | 0.91886 | 0.93546 |
| CLHT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2026 Fuel Engine Fractions Summary – Continued

| SUT | Fuel Type | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 | 1996 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.93570 | 0.94665 | 0.94784 | 0.96924 | 0.95752 | 0.98121 | 0.98710 | 0.98163 | 0.98742 | 0.98724 | 0.98443 | 0.98118 | 0.98877 | 0.99909 | 0.99876 |
| PC | Diesel | 0.01061 | 0.00779 | 0.00069 | 0.00047 | 0.00695 | 0.00491 | 0.00338 | 0.00416 | 0.00464 | 0.00335 | 0.00309 | 0.00188 | 0.00221 | 0.00091 | 0.00124 |
| PT | Gas | 0.79406 | 0.84100 | 0.88674 | 0.85626 | 0.91131 | 0.91051 | 0.89189 | 0.85736 | 0.87238 | 0.92153 | 0.90560 | 0.90991 | 0.97211 | 0.95551 | 0.95753 |
| PT | Diesel | 0.01328 | 0.01718 | 0.03004 | 0.02790 | 0.04402 | 0.03595 | 0.04059 | 0.03865 | 0.03470 | 0.04103 | 0.02973 | 0.03925 | 0.01280 | 0.04449 | 0.04247 |
| LCT | Gas | 0.63823 | 0.76558 | 0.81321 | 0.81565 | 0.85179 | 0.86984 | 0.85968 | 0.84007 | 0.84304 | 0.88196 | 0.87280 | 0.86328 | 0.94144 | 0.89876 | 0.90704 |
| LCT | Diesel | 0.03476 | 0.04654 | 0.08017 | 0.06792 | 0.09978 | 0.08519 | 0.09267 | 0.08413 | 0.08484 | 0.08819 | 0.07731 | 0.09860 | 0.04495 | 0.10124 | 0.09296 |
| OBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBus | Gas | 0.03886 | 0.02749 | 0.01298 | 0.00778 | 0.01011 | 0.00660 | 0.00377 | 0.00554 | 0.02596 | 0.01166 | 0.02569 | 0.01000 | 0.01000 | 0.01000 | 0.04154 |
| SBus | Diesel | 0.96114 | 0.97251 | 0.98702 | 0.99222 | 0.98989 | 0.99340 | 0.99623 | 0.99446 | 0.97404 | 0.98834 | 0.97431 | 0.99000 | 0.99000 | 0.99000 | 0.95846 |
| RT | Gas | 0.00000 | 0.00460 | 0.00204 | 0.00234 | 0.00086 | 0.00067 | 0.00000 | 0.00036 | 0.00000 | 0.00000 | 0.00000 | 0.16880 | 0.40357 | 0.01932 | 0.02529 |
| RT | Diesel | 1.00000 | 0.99540 | 0.99796 | 0.99766 | 0.99914 | 0.99933 | 1.00000 | 0.99964 | 1.00000 | 1.00000 | 1.00000 | 0.83120 | 0.59643 | 0.98068 | 0.97471 |
| SUSht | Gas | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 |
| SUSht | Diesel | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 |
| SULht | Gas | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 | 0.38278 |
| SULht | Diesel | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 | 0.61722 |
| MH | Gas | 0.00585 | 0.53388 | 0.38083 | 0.44201 | 0.57780 | 0.34935 | 0.60161 | 0.56194 | 0.60280 | 0.54586 | 0.65392 | 0.79746 | 0.64940 | 0.83607 | 0.80080 |
| MH | Diesel | 0.99415 | 0.46612 | 0.61917 | 0.55799 | 0.42220 | 0.65065 | 0.39839 | 0.43806 | 0.39720 | 0.45414 | 0.34608 | 0.20254 | 0.35060 | 0.16393 | 0.19920 |
| CShT | Gas | 0.07675 | 0.07693 | 0.07895 | 0.05434 | 0.06493 | 0.06068 | 0.07687 | 0.08587 | 0.09318 | 0.09572 | 0.11042 | 0.11049 | 0.10920 | 0.12175 | 0.11853 |
| CShT | Diesel | 0.92325 | 0.92307 | 0.92105 | 0.94566 | 0.93507 | 0.93932 | 0.92313 | 0.91413 | 0.90682 | 0.90428 | 0.88958 | 0.88951 | 0.89080 | 0.87825 | 0.88147 |
| CLhT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2027 Fuel Engine Fractions Summary

| SUT | Fuel Type | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.95023 | 0.95385 | 0.95639 | 0.95860 | 0.96022 | 0.96167 | 0.96311 | 0.96427 | 0.96679 | 0.96933 | 0.96977 | 0.94863 | 0.93751 | 0.94365 | 0.94020 | 0.93965 |
| PC | Diesel | 0.01797 | 0.01530 | 0.01282 | 0.01073 | 0.00922 | 0.00779 | 0.00656 | 0.00570 | 0.00334 | 0.00108 | 0.00026 | 0.00121 | 0.02417 | 0.01499 | 0.01354 | 0.01261 |
| PT | Gas | 0.81100 | 0.81433 | 0.81408 | 0.81494 | 0.81557 | 0.81665 | 0.81850 | 0.82007 | 0.82756 | 0.83585 | 0.84358 | 0.82315 | 0.76837 | 0.77491 | 0.69407 | 0.68589 |
| PT | Diesel | 0.06821 | 0.06864 | 0.06905 | 0.06837 | 0.06775 | 0.06632 | 0.06441 | 0.06285 | 0.05514 | 0.04653 | 0.03894 | 0.03474 | 0.03031 | 0.02373 | 0.02009 | 0.02645 |
| LCT | Gas | 0.81100 | 0.81433 | 0.81408 | 0.81494 | 0.81557 | 0.81665 | 0.81850 | 0.82007 | 0.82756 | 0.83585 | 0.84358 | 0.82315 | 0.76837 | 0.61614 | 0.59432 | 0.62654 |
| LCT | Diesel | 0.06821 | 0.06864 | 0.06905 | 0.06837 | 0.06775 | 0.06632 | 0.06441 | 0.06285 | 0.05514 | 0.04653 | 0.03894 | 0.03474 | 0.03031 | 0.02627 | 0.03117 | 0.05619 |
| OBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBUS | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBUS | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBUS | Gas | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.00791 | 0.03703 | 0.04500 |
| SBUS | Diesel | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.99209 | 0.96297 | 0.95500 |
| RT | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00659 | 0.00000 |
| RT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 0.99341 | 1.00000 |
| SUSHT | Gas | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.47430 | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 |
| SUSHT | Diesel | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.52570 | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 |
| SULHT | Gas | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.51864 | 0.47430 | 0.49915 | 0.48981 | 0.44286 | 0.40011 | 0.42137 | 0.27545 |
| SULHT | Diesel | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.48136 | 0.52570 | 0.50085 | 0.51019 | 0.55714 | 0.59989 | 0.57863 | 0.72455 |
| MH | Gas | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.57965 | 0.70761 | 0.72513 |
| MH | Diesel | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.42035 | 0.29239 | 0.27487 |
| CSHT | Gas | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.08061 | 0.09098 | 0.10616 | 0.09304 | 0.07303 | 0.09762 | 0.08697 | 0.08114 |
| CSHT | Diesel | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.91939 | 0.90902 | 0.89384 | 0.90696 | 0.92697 | 0.90238 | 0.91303 | 0.91886 |
| CLHT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.

Texas Statewide 2027 Fuel Engine Fractions Summary – Continued

| SUT | Fuel Type | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | 1999 | 1998 | 1997 |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MC | Gas | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| PC | Gas | 0.90306 | 0.93570 | 0.94665 | 0.94784 | 0.96924 | 0.95752 | 0.98121 | 0.98710 | 0.98163 | 0.98742 | 0.98724 | 0.98443 | 0.98118 | 0.98877 | 0.99909 |
| PC | Diesel | 0.01177 | 0.01061 | 0.00779 | 0.00069 | 0.00047 | 0.00695 | 0.00491 | 0.00338 | 0.00416 | 0.00464 | 0.00335 | 0.00309 | 0.00188 | 0.00221 | 0.00091 |
| PT | Gas | 0.75726 | 0.79406 | 0.84100 | 0.88674 | 0.85626 | 0.91131 | 0.91051 | 0.89189 | 0.85736 | 0.87238 | 0.92153 | 0.90560 | 0.90991 | 0.97211 | 0.95551 |
| PT | Diesel | 0.02341 | 0.01328 | 0.01718 | 0.03004 | 0.02790 | 0.04402 | 0.03595 | 0.04059 | 0.03865 | 0.03470 | 0.04103 | 0.02973 | 0.03925 | 0.01280 | 0.04449 |
| LCT | Gas | 0.62303 | 0.63823 | 0.76558 | 0.81321 | 0.81565 | 0.85179 | 0.86984 | 0.85968 | 0.84007 | 0.84304 | 0.88196 | 0.87280 | 0.86328 | 0.94144 | 0.89876 |
| LCT | Diesel | 0.06012 | 0.03476 | 0.04654 | 0.08017 | 0.06792 | 0.09978 | 0.08519 | 0.09267 | 0.08413 | 0.08484 | 0.08819 | 0.07731 | 0.09860 | 0.04495 | 0.10124 |
| OBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| OBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| TBus | Gas | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| TBus | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |
| SBus | Gas | 0.03143 | 0.03886 | 0.02749 | 0.01298 | 0.00778 | 0.01011 | 0.00660 | 0.00377 | 0.00554 | 0.02596 | 0.01166 | 0.02569 | 0.01000 | 0.01000 | 0.01000 |
| SBus | Diesel | 0.96857 | 0.96114 | 0.97251 | 0.98702 | 0.99222 | 0.98989 | 0.99340 | 0.99623 | 0.99446 | 0.97404 | 0.98834 | 0.97431 | 0.99000 | 0.99000 | 0.99000 |
| RT | Gas | 0.00000 | 0.00000 | 0.00460 | 0.00204 | 0.00234 | 0.00086 | 0.00067 | 0.00000 | 0.00036 | 0.00000 | 0.00000 | 0.00000 | 0.16880 | 0.40357 | 0.01932 |
| RT | Diesel | 1.00000 | 1.00000 | 0.99540 | 0.99796 | 0.99766 | 0.99914 | 0.99933 | 1.00000 | 0.99964 | 1.00000 | 1.00000 | 1.00000 | 0.83120 | 0.59643 | 0.98068 |
| SUSHT | Gas | 0.28371 | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 |
| SUSHT | Diesel | 0.71629 | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 |
| SULHT | Gas | 0.28371 | 0.33230 | 0.38345 | 0.33104 | 0.27171 | 0.27333 | 0.24922 | 0.25725 | 0.25116 | 0.27492 | 0.30235 | 0.36286 | 0.32519 | 0.41346 | 0.41543 |
| SULHT | Diesel | 0.71629 | 0.66770 | 0.61655 | 0.66896 | 0.72829 | 0.72667 | 0.75078 | 0.74275 | 0.74884 | 0.72508 | 0.69765 | 0.63714 | 0.67481 | 0.58654 | 0.58457 |
| MH | Gas | 0.70133 | 0.00585 | 0.53388 | 0.38083 | 0.44201 | 0.57780 | 0.34935 | 0.60161 | 0.56194 | 0.60280 | 0.54586 | 0.65392 | 0.79746 | 0.64940 | 0.83607 |
| MH | Diesel | 0.29867 | 0.99415 | 0.46612 | 0.61917 | 0.55799 | 0.42220 | 0.65065 | 0.39839 | 0.43806 | 0.39720 | 0.45414 | 0.34608 | 0.20254 | 0.35060 | 0.16393 |
| CShT | Gas | 0.06454 | 0.07675 | 0.07693 | 0.07895 | 0.05434 | 0.06493 | 0.06068 | 0.07687 | 0.08587 | 0.09318 | 0.09572 | 0.11042 | 0.11049 | 0.10920 | 0.12175 |
| CShT | Diesel | 0.93546 | 0.92325 | 0.92307 | 0.92105 | 0.94566 | 0.93507 | 0.93932 | 0.92313 | 0.91413 | 0.90682 | 0.90428 | 0.88958 | 0.88951 | 0.89080 | 0.87825 |
| CLHT | Diesel | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

¹ Conventional internal combustion engine technology only.