



2023 Roadway Inventory Report

Summary Mileage, Traffic and Environmental Statistics



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About This Report

The 2023 Roadway Inventory Report is prepared by the Texas Department of Transportation, Transportation Planning and Programming Division.

This report is in a new format for data year 2023. Reports from previous years present different varieties of data using different criteria, so a direct comparison between this report and *Roadway Inventory Annual Report* documents from previous years is not recommended.

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Data Year: All years referenced within this report are based upon calendar year. All tables and charts contain certified year-end (YE) Roadway Inventory data. Because fiscal year for the State of Texas corresponds to the period of September 1 through August 31, there is no direct parallel between fiscal year and calendar year. If mileage and traffic statistics are desired for a fiscal year (FY), one possible solution is to use calendar year data for the following fiscal year. For instance, YE2023 data in this document could be used for FY2024. However, this is not a perfect equivalency.

Data Criteria for all mileage and traffic statistics within this report: Roadways within the state of Texas which are open to public traffic (see Historical Trends Data Notes for exceptions); No proposed, unbuilt roadways; Connectors, ramps, grade separated connectors (aka direct connectors), and other ancillary roadbeds omitted; Mainlanes and frontage are combined unless specified otherwise.

Roadway Data Tables

Mileage and traffic statistics are also available in the Multi-Year Roadway Data Tables. This document presents data broken down by additional metrics not found in this Roadway Inventory Report. It is in Microsoft Excel format and can be filtered by the user to obtain desired aggregations.

The Roadway Data Tables document also contains extensive annotations regarding data criteria and calculations, and is intended as a companion to this Annual Report document. The Roadway Data Tables can be found at the following URL:

<https://www.txdot.gov/inside-txdot/division/transportation-planning/roadway-inventory.html>

Glossary

Centerline Mileage: Mileage of a segment of roadway, regardless of the number of through lanes. Centerline mileage for mainlanes is calculated separately from centerline mileage for frontage roads, which are considered distinct roadways. For instance, a 1 mile segment of highway with left and right roadbeds, each with four lanes, would be represented as 1 centerline mile. If that segment contained right and left frontage roads, the mainlanes and frontage roads would be represented in the data as 3 unique roadways, 1 centerline mile each, for a total of 3 miles.

Daily Vehicle Miles of Travel (DVMT): Daily number of miles traveled by all vehicles. Inclusive of Truck DVMT.

Lane Mileage: Mileage of all through lanes of a segment of roadway. For instance, a 1 mile segment of highway with left and right roadbeds, each with four through lanes, would be represented as 8 lane miles. As with centerline mileage, frontage lane mileage is calculated separately from the lane mileage of mainlanes.

National Highway System (NHS): A network of strategic highways within the United States. The NHS consists of roadways important to the nation's economy, defense, and mobility. NHS statistics within these reports are limited to NHS highways within the state of Texas.

Off-System: Not under the jurisdiction of TxDOT.

On-System: Under the jurisdiction of TxDOT.

Truck Daily Vehicle Miles of Travel (Truck DVMT): Daily number of miles traveled by trucks only. Unlike other data types, Truck DVMT values are not rounded before aggregation. Therefore, aggregating Truck DVMT by different combinations of subtotal values may result in a negligible discrepancy from the Statewide Total.

Historical Trends Data Notes

The following notes apply to *Table 4: 1970-2023 Historical Trends and Figures 1 through 4*.

Rounding: Total columns are aggregated using source data which are not rounded. As a result, the rounded Total value may not always equal the aggregation of the rounded values in the corresponding columns.

Roadway Status: 1970-2006 mileage includes roadways which are open to traffic or under construction. Beginning in 2007, mileage includes open to traffic only.

DVMT Calculation: For the years of 1985-1996, "Total Daily Vehicle Miles of Travel" was updated with the corrected calculated sum of the values of "Daily Vehicle Miles of Travel (On-System)" and "Daily Vehicle Miles of Travel (Off-System)".

2014 DVMT: Traffic-related data was the result of a new data system in 2014. Based on this information, statewide Daily Vehicle Miles of Travel (DVMT) decreased 0.6% when compared to the 2013 data, contrary to an expected increase based on other economic indicators which suggest traffic growth in Texas.

2014-2017 Mileage: Total public roadway mileage was held constant from 2014 to 2015 due to the transition to a new roadway inventory database system (GRID). This transition continued in 2016, when mileage updates were limited to select On-System routes. In 2017, the transition from the legacy system to GRID was completed. Mileage and traffic data

were reported for the first time using GRID, and the routine work of roadway edits and additions was resumed.

2021 Mileage: Mileage increases for 2021 are largely due to a significant effort to review and update City Streets and County Roads and do not necessarily indicate an increase in construction activity for the year.

CO2 Emissions and Fuel Consumption Notes

The following notes apply to *Figures 5 through 8 and their accompanying tables*.

The calculations used to derive Annual Fuel Consumption and Annual Carbon Dioxide Emissions require the use of statistics not found within the TxDOT certified datasets.

The fuel consumption figures presented here were published by the Federal Highway Administration. CO2 emissions are calculated from the fuel consumption figures, mirroring the Federal Highway Administration's GHG (Greenhouse Gas) Performance Measure methodology. Light Duty Vehicle CO2 emissions are based upon gasoline consumption due to gasoline's predominance as fuel for Light Duty Vehicles. Light Duty Vehicles include cars, pickup trucks, vans, motorcycles, etc. Truck CO2 emissions are based upon diesel consumption due to diesel's predominance as fuel for trucks.

For more information about calculation of CO2 emissions and fuel consumption, please see the "Data Overview" section of the Roadway Data Tables (link is above in the Roadway Data Tables section).

Note: *Roadway Inventory Annual Report* documents from previous years presented CO2 emissions and fuel consumption statistics which were calculated using a different methodology.

Table 1: 2023 Mileage by TxDOT District

| TxDOT District Number & Name | Centerline Miles: On-System Mainlanes | Centerline Miles: On-System Frontage | Centerline Miles: Off-System | Centerline Miles: Total | Lane Miles: On-System Mainlanes | Lane Miles: On-System Frontage | Lane Miles: Off-System | Lane Miles: Total |
|------------------------------|---------------------------------------|--------------------------------------|------------------------------|-------------------------|---------------------------------|--------------------------------|------------------------|-------------------|
| 1 - Paris | 3,104.613 | 235.665 | 8,072.618 | 11,412.896 | 6,942.404 | 469.982 | 16,153.931 | 23,566.317 |
| 2 - Fort Worth | 2,799.154 | 561.583 | 15,102.526 | 18,463.263 | 7,984.694 | 1,196.253 | 31,835.360 | 41,016.307 |
| 3 - Wichita Falls | 2,667.197 | 188.345 | 6,173.620 | 9,029.162 | 6,096.457 | 384.131 | 12,428.138 | 18,908.726 |
| 4 - Amarillo | 3,739.397 | 324.404 | 9,894.449 | 13,958.250 | 8,868.364 | 647.955 | 20,001.458 | 29,517.777 |
| 5 - Lubbock | 4,971.729 | 293.202 | 17,773.400 | 23,038.331 | 11,580.871 | 608.545 | 35,893.393 | 48,082.809 |
| 6 - Odessa | 2,878.389 | 537.573 | 5,327.270 | 8,743.232 | 7,168.592 | 1,075.146 | 10,943.381 | 19,187.119 |
| 7 - San Angelo | 3,092.996 | 142.794 | 5,269.313 | 8,505.103 | 7,108.833 | 285.453 | 10,603.846 | 17,998.132 |
| 8 - Abilene | 3,351.354 | 399.715 | 8,122.588 | 11,873.657 | 7,679.533 | 798.903 | 16,363.194 | 24,841.630 |
| 9 - Waco | 3,146.605 | 307.238 | 10,065.440 | 13,519.283 | 7,544.772 | 618.454 | 20,373.553 | 28,536.779 |
| 10 - Tyler | 3,609.399 | 88.381 | 9,338.129 | 13,035.909 | 8,751.912 | 174.228 | 18,808.931 | 27,735.071 |
| 11 - Lufkin | 2,861.409 | 31.165 | 7,077.805 | 9,970.379 | 6,514.143 | 63.430 | 14,155.030 | 20,732.603 |
| 12 - Houston | 2,393.858 | 1,053.898 | 26,271.272 | 29,719.028 | 9,482.450 | 2,378.213 | 57,356.316 | 69,216.979 |
| 13 - Yoakum | 3,415.319 | 206.764 | 8,698.655 | 12,320.738 | 7,924.831 | 411.791 | 17,478.160 | 25,814.782 |
| 14 - Austin | 3,052.885 | 418.269 | 14,132.868 | 17,604.022 | 8,654.967 | 955.983 | 29,328.402 | 38,939.352 |
| 15 - San Antonio | 3,674.761 | 659.853 | 14,667.710 | 19,002.324 | 9,954.451 | 1,364.143 | 30,331.214 | 41,649.808 |
| 16 - Corpus Christi | 2,645.634 | 287.927 | 6,678.460 | 9,612.021 | 6,794.316 | 579.044 | 13,597.310 | 20,970.670 |
| 17 - Bryan | 2,941.963 | 220.727 | 7,239.453 | 10,402.143 | 6,850.450 | 438.319 | 14,534.632 | 21,823.401 |
| 18 - Dallas | 2,817.454 | 910.233 | 22,009.133 | 25,736.820 | 9,630.032 | 1,944.279 | 49,544.963 | 61,119.274 |
| 19 - Atlanta | 2,592.493 | 102.620 | 6,312.268 | 9,007.381 | 6,254.038 | 201.815 | 12,664.481 | 19,120.334 |
| 20 - Beaumont | 2,195.748 | 234.891 | 6,825.314 | 9,255.953 | 5,541.151 | 469.953 | 13,819.510 | 19,830.614 |

Table 1: 2023 Mileage by TxDOT District - Continued

| TxDOT District Number & Name | Centerline Miles: On-System Mainlanes | Centerline Miles: On-System Frontage | Centerline Miles: Off-System | Centerline Miles: Total | Lane Miles: On-System Mainlanes | Lane Miles: On-System Frontage | Lane Miles: Off-System | Lane Miles: Total |
|------------------------------|---------------------------------------|--------------------------------------|------------------------------|-------------------------|---------------------------------|--------------------------------|------------------------|--------------------|
| 21 - Pharr | 2,148.938 | 263.959 | 7,781.647 | 10,194.544 | 6,046.125 | 609.545 | 15,781.410 | 22,437.080 |
| 22 - Laredo | 2,133.306 | 173.024 | 3,353.647 | 5,659.977 | 4,870.914 | 356.052 | 6,813.136 | 12,040.102 |
| 23 - Brownwood | 2,611.441 | 76.817 | 6,002.276 | 8,690.534 | 5,755.423 | 153.634 | 12,010.814 | 17,919.871 |
| 24 - El Paso | 1,730.917 | 227.447 | 5,191.754 | 7,150.118 | 4,539.631 | 470.543 | 10,916.341 | 15,926.515 |
| 25 - Childress | 2,443.854 | 67.368 | 5,587.043 | 8,098.265 | 5,392.664 | 134.978 | 11,174.086 | 16,701.728 |
| Statewide Total | 73,020.813 | 8,013.862 | 242,968.658 | 324,003.333 | 183,932.018 | 16,790.772 | 502,910.990 | 703,633.780 |

Table 2: 2023 Daily Vehicle Miles Travelled (DVMT) by TxDOT District

| TxDOT District Number & Name | DVMT: On-System Mainlanes | DVMT: On-System Frontage | DVMT: Off-System | DVMT: Total | Truck DVMT: On-System Mainlanes | Truck DVMT: On-System Frontage | Truck DVMT: Off-System | Truck DVMT: Total |
|------------------------------|---------------------------|--------------------------|------------------|------------------------|---------------------------------|--------------------------------|------------------------|--------------------------|
| 1 - Paris | 13,253,651.305 | 392,885.795 | 1,567,340.458 | 15,213,877.558 | 2,523,498.661 | 22,977.006 | 63,692.932 | 2,610,168.599 |
| 2 - Fort Worth | 49,890,124.336 | 2,684,460.069 | 19,296,635.599 | 71,871,220.004 | 5,222,869.406 | 100,303.295 | 790,807.575 | 6,113,980.276 |
| 3 - Wichita Falls | 7,689,583.308 | 172,811.099 | 1,050,359.388 | 8,912,753.795 | 1,649,254.572 | 5,358.885 | 39,176.266 | 1,693,789.723 |
| 4 - Amarillo | 10,505,976.929 | 282,423.531 | 2,396,765.529 | 13,185,165.989 | 3,234,307.813 | 6,578.768 | 101,247.940 | 3,342,134.521 |
| 5 - Lubbock | 10,814,464.594 | 430,653.392 | 3,785,366.754 | 15,030,484.740 | 1,928,399.830 | 35,494.973 | 172,490.955 | 2,136,385.758 |
| 6 - Odessa | 15,822,222.310 | 751,074.817 | 3,513,495.203 | 20,086,792.330 | 4,680,222.973 | 100,464.714 | 273,061.300 | 5,053,748.987 |
| 7 - San Angelo | 6,443,630.748 | 121,762.387 | 929,295.216 | 7,494,688.351 | 1,538,199.459 | 6,921.539 | 45,350.974 | 1,590,471.972 |
| 8 - Abilene | 9,013,901.467 | 409,274.382 | 1,492,209.855 | 10,915,385.704 | 2,701,485.304 | 30,604.981 | 62,687.951 | 2,794,778.236 |
| 9 - Waco | 22,346,107.379 | 1,371,096.097 | 4,045,471.815 | 27,762,675.291 | 3,908,580.707 | 86,804.219 | 166,865.045 | 4,162,249.971 |
| 10 - Tyler | 18,927,442.825 | 48,111.719 | 3,183,987.931 | 22,159,542.475 | 2,667,068.126 | 3,042.884 | 166,067.153 | 2,836,178.163 |
| 11 - Lufkin | 9,278,633.219 | 97,238.135 | 750,482.206 | 10,126,353.560 | 1,766,943.572 | 7,637.143 | 27,722.932 | 1,802,303.647 |
| 12 - Houston | 91,996,128.379 | 14,025,185.737 | 63,338,377.497 | 169,359,691.613 | 7,534,381.232 | 753,679.857 | 3,181,035.158 | 11,469,096.247 |
| 13 - Yoakum | 14,897,982.687 | 234,806.574 | 1,431,571.441 | 16,564,360.702 | 3,608,998.081 | 23,570.159 | 58,699.172 | 3,691,267.412 |
| 14 - Austin | 45,362,247.315 | 4,788,999.099 | 14,840,189.033 | 64,991,435.447 | 4,668,031.893 | 248,306.868 | 680,324.099 | 5,596,662.860 |
| 15 - San Antonio | 52,348,860.014 | 4,057,995.735 | 14,370,252.999 | 70,777,108.748 | 6,391,718.801 | 134,933.374 | 585,823.513 | 7,112,475.688 |
| 16 - Corpus Christi | 14,947,922.595 | 541,329.319 | 3,205,129.601 | 18,694,381.515 | 2,333,651.816 | 44,380.752 | 167,558.086 | 2,545,590.654 |
| 17 - Bryan | 16,963,366.619 | 622,993.687 | 1,886,252.327 | 19,472,612.633 | 3,458,354.949 | 32,268.772 | 84,252.235 | 3,574,875.956 |
| 18 - Dallas | 78,984,279.274 | 6,308,807.084 | 52,617,749.696 | 137,910,836.054 | 8,567,520.904 | 269,466.680 | 2,391,737.557 | 11,228,725.141 |
| 19 - Atlanta | 11,110,478.640 | 210,807.209 | 1,217,288.166 | 12,538,574.015 | 2,867,260.387 | 24,896.796 | 50,546.133 | 2,942,703.316 |
| 20 - Beaumont | 17,226,896.645 | 605,315.650 | 3,332,673.871 | 21,164,886.166 | 2,829,353.630 | 34,222.713 | 134,229.826 | 2,997,806.169 |

Table 2: 2023 Daily Vehicle Miles Travelled (DVMT) by TxDOT District - Continued

| TxDOT District Number & Name | DVMT: On-System Mainlanes | DVMT: On-System Frontage | DVMT: Off-System | DVMT: Total | Truck DVMT: On-System Mainlanes | Truck DVMT: On-System Frontage | Truck DVMT: Off-System | Truck DVMT: Total |
|------------------------------|---------------------------|--------------------------|------------------------|------------------------|---------------------------------|--------------------------------|------------------------|--------------------------|
| 21 - Pharr | 21,343,356.364 | 1,937,677.959 | 7,897,248.118 | 31,178,282.441 | 1,984,247.500 | 51,169.190 | 290,448.046 | 2,325,864.736 |
| 22 - Laredo | 7,745,495.886 | 276,258.166 | 2,622,598.310 | 10,644,352.362 | 2,267,569.044 | 58,789.874 | 172,877.884 | 2,499,236.802 |
| 23 - Brownwood | 4,784,418.598 | 27,798.094 | 490,817.823 | 5,303,034.515 | 955,243.993 | 1,869.217 | 21,340.202 | 978,453.412 |
| 24 - El Paso | 14,299,075.539 | 1,308,439.208 | 5,355,192.143 | 20,962,706.890 | 2,399,647.958 | 82,447.281 | 243,369.826 | 2,725,465.065 |
| 25 - Childress | 2,919,901.449 | 6,848.336 | 106,774.917 | 3,033,524.702 | 1,253,394.862 | 436.661 | 1,265.995 | 1,255,097.518 |
| Statewide Total | 568,916,148.424 | 41,715,053.280 | 214,723,525.896 | 825,354,727.600 | 82,940,205.473 | 2,166,626.601 | 9,972,678.755 | 95,079,510.829 |

Table 3: 2023 Mileage and Daily Vehicle Miles Travelled (DVMT) by Metropolitan Planning Organization (MPO)

| MPO Name | Centerline Miles | Lane Miles | DVMT | Truck DVMT |
|--|------------------|------------|-----------------|----------------|
| Abilene MPO | 1,161.149 | 2,603.639 | 3,258,438.018 | 432,686.917 |
| Alamo Area MPO (AAMPO) | 11,320.616 | 25,566.741 | 60,349,077.566 | 4,899,672.664 |
| Amarillo MPO | 2,243.696 | 5,055.143 | 5,857,274.339 | 744,006.010 |
| Bryan-College Station MPO (BCSMPO) | 1,509.150 | 3,360.063 | 5,428,901.071 | 463,100.825 |
| Capital Area MPO (CAMPO) | 14,099.999 | 31,460.770 | 61,339,707.660 | 5,129,079.286 |
| Corpus Christi MPO (CCMPO) | 1,759.448 | 4,167.483 | 8,213,453.155 | 516,478.267 |
| El Paso MPO (EPMPO) | 3,714.774 | 8,732.838 | 17,958,527.465 | 1,408,593.459 |
| Grayson County MPO | 2,478.670 | 5,155.472 | 4,967,612.584 | 584,237.053 |
| Houston-Galveston Area Council (HGAC) | 32,186.676 | 74,487.503 | 175,754,321.963 | 12,570,492.118 |
| Killeen-Temple MPO (KTMPO) | 3,395.240 | 7,438.877 | 12,325,488.738 | 1,259,670.578 |
| Laredo & Webb County Area MPO (LWCAMPO) | 1,076.781 | 2,476.783 | 4,758,350.562 | 677,207.996 |
| Longview MPO | 1,134.104 | 2,619.327 | 3,593,004.805 | 338,176.879 |
| Lubbock MPO (LMPO) | 1,731.637 | 4,131.545 | 6,093,100.939 | 435,834.773 |
| North Central Texas Council of Governments (NCTCOG) | 41,141.246 | 95,773.557 | 207,656,053.309 | 16,790,434.316 |
| Permian Basin MPO (PBMPO) | 2,649.750 | 6,061.492 | 9,830,190.446 | 1,578,604.512 |
| Rio Grande Valley MPO (RGVMPO) | 8,205.370 | 18,177.774 | 28,673,913.602 | 1,751,803.016 |
| San Angelo MPO (SAMPO) | 773.357 | 1,782.746 | 1,872,384.502 | 113,762.613 |
| South East Texas Regional Planning Commission (SETRPC) | 3,943.457 | 8,719.237 | 12,279,404.603 | 1,531,884.298 |
| Texarkana MPO | 602.158 | 1,355.205 | 1,824,724.034 | 288,979.727 |
| Tyler Area MPO (TAMPO) | 2,169.240 | 4,784.606 | 6,961,753.463 | 838,434.395 |
| Victoria MPO | 1,268.758 | 2,901.074 | 2,815,527.632 | 432,301.811 |
| Waco MPO | 2,962.076 | 6,484.492 | 9,138,278.262 | 1,467,346.906 |
| Wichita Falls MPO (WFMPO) | 808.049 | 1,902.717 | 2,381,848.326 | 245,774.393 |

Table 4: 1970-2023 Historical Trends: Mileage and Daily Vehicle Miles Travelled (DVMT)

| Year | Centerline Miles: On-System | Centerline Miles: Off-System | Centerline Miles: Total | Lane Miles: On-System | Lane Miles: Off-System | Lane Miles: Total | DVMT: On-System | DVMT: Off-System | DVMT: Total | Truck DVMT: On-System | Truck DVMT: Off-System | Truck DVMT: Total |
|------|-----------------------------|------------------------------|-------------------------|-----------------------|------------------------|-------------------|-----------------|------------------|--------------------|-----------------------|------------------------|-------------------|
| 1970 | 67,254 | 178,251 | 245,505 | NA | NA | NA | 135,754,441 | 50,632,056 | 186,386,497 | NA | NA | NA |
| 1971 | 68,089 | 179,994 | 248,082 | NA | NA | NA | 143,960,274 | 52,996,001 | 196,956,275 | NA | NA | NA |
| 1972 | 68,836 | 181,700 | 250,537 | NA | NA | NA | 154,249,183 | 55,563,057 | 209,812,240 | NA | NA | NA |
| 1973 | 69,227 | 182,360 | 251,587 | NA | NA | NA | 164,191,553 | 57,472,571 | 221,664,124 | NA | NA | NA |
| 1974 | 69,519 | 184,351 | 253,869 | NA | NA | NA | 158,221,705 | 57,371,033 | 215,592,738 | NA | NA | NA |
| 1975 | 69,960 | 186,021 | 255,981 | NA | NA | NA | 172,197,240 | 59,535,138 | 231,732,378 | NA | NA | NA |
| 1976 | 70,270 | 187,689 | 257,958 | NA | NA | NA | 185,239,984 | 66,734,224 | 251,974,208 | NA | NA | NA |
| 1977 | 70,541 | 187,909 | 258,450 | NA | NA | NA | 197,396,215 | 74,594,055 | 271,990,270 | NA | NA | NA |
| 1978 | 70,978 | 191,134 | 262,112 | NA | NA | NA | 212,418,347 | 87,200,390 | 299,618,737 | NA | NA | NA |
| 1979 | 71,213 | 193,707 | 264,919 | NA | NA | NA | 223,391,917 | 89,761,201 | 313,153,118 | NA | NA | NA |
| 1980 | 71,503 | 195,651 | 267,154 | 176,029 | 396,458 | 572,487 | 217,599,359 | 71,112,255 | 288,711,614 | NA | NA | NA |
| 1981 | 71,894 | 200,230 | 272,124 | 177,299 | 399,047 | 576,346 | 225,312,876 | 102,219,401 | 327,532,277 | NA | NA | NA |
| 1982 | 71,909 | 200,533 | 272,442 | 178,273 | 406,187 | 584,460 | 236,281,422 | 106,805,285 | 343,086,707 | NA | NA | NA |
| 1983 | 72,144 | 203,618 | 275,762 | 179,621 | 412,336 | 591,957 | 251,540,373 | 109,792,908 | 361,333,281 | NA | NA | NA |
| 1984 | 72,364 | 206,388 | 278,751 | 180,652 | 417,820 | 598,472 | 265,731,010 | 112,225,937 | 377,956,947 | NA | NA | NA |
| 1985 | 72,585 | 209,639 | 282,224 | 181,662 | 424,322 | 605,984 | 277,375,142 | 117,315,676 | 394,690,818 | NA | NA | NA |
| 1986 | 72,749 | 213,182 | 285,930 | 182,302 | 431,382 | 613,685 | 282,226,185 | 123,571,592 | 405,797,777 | NA | NA | NA |
| 1987 | 77,244 | 216,271 | 293,516 | 182,938 | 437,633 | 620,571 | 287,135,041 | 126,945,371 | 414,080,412 | NA | NA | NA |
| 1988 | 76,475 | 223,937 | 300,413 | 181,006 | 454,060 | 635,066 | 282,025,651 | 141,468,906 | 423,494,557 | NA | NA | NA |

Table 4: 1970-2023 Historical Trends: Mileage and Daily Vehicle Miles Travelled (DVMT) - Continued

| Year | Centerline Miles: On-System | Centerline Miles: Off-System | Centerline Miles: Total | Lane Miles: On-System | Lane Miles: Off-System | Lane Miles: Total | DVMT: On-System | DVMT: Off-System | DVMT: Total | Truck DVMT: On-System | Truck DVMT: Off-System | Truck DVMT: Total |
|------|-----------------------------|------------------------------|-------------------------|-----------------------|------------------------|-------------------|-----------------|------------------|--------------------|-----------------------|------------------------|-------------------|
| 1989 | 76,564 | 229,071 | 305,636 | 181,667 | 464,428 | 646,094 | 284,807,751 | 146,548,133 | 431,355,884 | NA | NA | NA |
| 1990 | 76,640 | 229,254 | 305,894 | 182,224 | 464,892 | 647,115 | 294,139,308 | 146,351,301 | 440,490,609 | 33,558,536 | 67,879 | 33,626,415 |
| 1991 | 76,805 | 216,649 | 293,454 | 183,149 | 439,703 | 622,852 | 297,959,407 | 134,452,324 | 432,411,731 | 34,714,426 | 55,336 | 34,769,762 |
| 1992 | 76,865 | 216,397 | 293,262 | 183,551 | 439,282 | 622,833 | 307,576,522 | 136,034,794 | 443,611,316 | 35,175,600 | 106,913 | 35,282,513 |
| 1993 | 76,765 | 217,366 | 294,131 | 183,306 | 441,231 | 624,537 | 315,662,509 | 140,965,223 | 456,627,732 | 36,579,260 | 30,726 | 36,609,986 |
| 1994 | 76,765 | 217,660 | 294,425 | 183,337 | 441,493 | 624,830 | 327,944,663 | 157,783,495 | 485,728,158 | 39,898,988 | 42,524 | 39,941,512 |
| 1995 | 76,842 | 217,733 | 294,575 | 184,130 | 441,859 | 625,989 | 337,457,019 | 158,974,416 | 496,431,435 | 41,494,581 | 41,221 | 41,535,802 |
| 1996 | 76,974 | 217,660 | 294,634 | 183,979 | 442,048 | 626,027 | 354,613,309 | 163,647,170 | 518,260,479 | 44,000,135 | 41,510 | 44,041,645 |
| 1997 | 78,981 | 217,594 | 296,575 | 184,576 | 441,701 | 626,277 | 372,041,632 | 165,674,929 | 537,716,561 | 46,238,014 | 37,164 | 46,275,178 |
| 1998 | 79,102 | 217,419 | 296,521 | 186,544 | 441,560 | 628,105 | 394,791,837 | 163,096,901 | 557,888,738 | 50,713,050 | 32,210 | 50,745,260 |
| 1999 | 79,185 | 221,238 | 300,424 | 187,152 | 450,128 | 637,280 | 401,341,945 | 168,204,626 | 569,546,571 | 54,244,004 | 17,080 | 54,261,084 |
| 2000 | 79,297 | 221,646 | 300,943 | 188,055 | 451,337 | 639,392 | 417,121,294 | 169,734,592 | 586,855,886 | 57,087,231 | 20,914 | 57,108,145 |
| 2001 | 79,363 | 221,638 | 301,001 | 188,388 | 451,416 | 639,804 | 428,868,139 | 150,785,161 | 579,653,300 | 58,701,166 | 3,843,746 | 62,544,912 |
| 2002 | 79,513 | 222,141 | 301,654 | 189,284 | 452,527 | 641,811 | 442,211,318 | 149,222,481 | 591,433,799 | 60,317,443 | 4,24,09 | 64,341,452 |
| 2003 | 79,535 | 222,337 | 301,872 | 189,745 | 453,060 | 642,806 | 449,486,854 | 148,345,914 | 597,832,768 | 61,400,392 | 4,723,344 | 66,123,736 |
| 2004 | 79,645 | 223,551 | 303,196 | 190,357 | 456,303 | 646,661 | 460,570,609 | 166,055,949 | 626,626,558 | 62,422,462 | 4,961,441 | 67,383,903 |
| 2005 | 79,696 | 224,522 | 304,218 | 190,764 | 458,372 | 649,135 | 477,768,143 | 163,960,306 | 641,728,448 | 64,272,748 | 4,651,064 | 68,923,812 |
| 2006 | 79,849 | 225,423 | 305,272 | 191,671 | 460,257 | 651,928 | 479,713,302 | 168,192,880 | 647,906,183 | 64,531,530 | 4,776,897 | 69,308,428 |
| 2007 | 79,975 | 225,880 | 305,855 | 192,542 | 461,286 | 653,828 | 489,032,715 | 173,285,263 | 662,317,978 | 67,539,818 | 4,925,205 | 72,465,023 |

Table 4: 1970-2023 Historical Trends: Mileage and Daily Vehicle Miles Travelled (DVMT) - Continued

| Year | Centerline Miles: On-System | Centerline Miles: Off-System | Centerline Miles: Total | Lane Miles: On-System | Lane Miles: Off-System | Lane Miles: Total | DVMT: On-System | DVMT: Off-System | DVMT: Total | Truck DVMT: On-System | Truck DVMT: Off-System | Truck DVMT: Total |
|------|-----------------------------|------------------------------|-------------------------|-----------------------|------------------------|-------------------|-----------------|------------------|--------------------|-----------------------|------------------------|-------------------|
| 2008 | 80,067 | 226,336 | 306,403 | 193,309 | 461,941 | 655,250 | 475,380,414 | 165,584,891 | 640,965,305 | 63,898,110 | 4,719,283 | 68,617,392 |
| 2009 | 79,903 | 230,948 | 310,851 | 193,366 | 476,032 | 669,398 | 465,620,745 | 169,930,259 | 635,551,005 | 59,025,187 | 4,713,520 | 63,738,708 |
| 2010 | 79,992 | 231,258 | 311,249 | 193,926 | 476,751 | 670,676 | 470,844,530 | 170,965,406 | 641,809,937 | 61,137,855 | 5,473,731 | 66,611,586 |
| 2011 | 80,233 | 232,677 | 312,911 | 194,887 | 479,799 | 674,686 | 480,068,521 | 170,459,824 | 650,528,345 | 61,301,617 | 5,363,309 | 66,664,926 |
| 2012 | 80,268 | 232,941 | 313,210 | 195,022 | 480,579 | 675,601 | 479,514,142 | 170,271,222 | 649,785,364 | 61,826,603 | 5,348,605 | 67,175,208 |
| 2013 | 80,323 | 233,272 | 313,595 | 195,299 | 480,966 | 676,266 | 499,867,599 | 170,094,249 | 669,961,848 | 65,485,101 | 5,443,014 | 70,928,115 |
| 2014 | 80,423 | 233,173 | 313,596 | 195,767 | 481,955 | 677,723 | 487,020,004 | 178,702,237 | 665,722,240 | 71,291,418 | 5,946,497 | 77,237,915 |
| 2015 | 80,423 | 233,173 | 313,596 | 195,767 | 481,955 | 677,723 | 515,866,798 | 191,317,363 | 707,184,160 | 68,093,603 | 7,101,479 | 75,195,082 |
| 2016 | 80,483 | 233,173 | 313,656 | 195,964 | 481,955 | 677,919 | 537,150,366 | 204,005,017 | 741,155,383 | 68,778,625 | 7,751,175 | 76,529,800 |
| 2017 | 80,444 | 233,875 | 314,319 | 196,307 | 483,760 | 680,067 | 540,367,474 | 207,524,436 | 747,891,910 | 69,412,005 | 7,848,753 | 77,260,759 |
| 2018 | 80,455 | 234,192 | 314,648 | 196,539 | 484,579 | 681,118 | 556,901,649 | 215,803,779 | 772,705,427 | 73,565,942 | 8,764,588 | 82,330,530 |
| 2019 | 80,606 | 234,840 | 315,445 | 197,865 | 485,796 | 683,661 | 575,222,334 | 214,439,932 | 789,662,266 | 74,453,210 | 8,812,908 | 83,266,118 |
| 2020 | 80,720 | 235,848 | 316,567 | 198,471 | 488,187 | 686,658 | 508,681,869 | 203,284,772 | 711,966,641 | 71,101,405 | 8,523,431 | 79,624,836 |
| 2021 | 80,905 | 241,248 | 322,153 | 200,060 | 499,242 | 699,301 | 573,976,125 | 206,923,725 | 780,899,850 | 80,932,578 | 9,159,762 | 90,092,340 |
| 2022 | 80,997 | 242,367 | 323,363 | 200,291 | 501,677 | 701,967 | 584,936,505 | 212,025,100 | 796,961,605 | 84,538,775 | 9,544,732 | 94,083,507 |
| 2023 | 81,035 | 242,969 | 324,003 | 200,723 | 502,911 | 703,634 | 610,631,202 | 214,723,526 | 825,354,728 | 85,106,832 | 9,972,679 | 95,079,511 |

Figure 1: Total Centerline Miles by Year

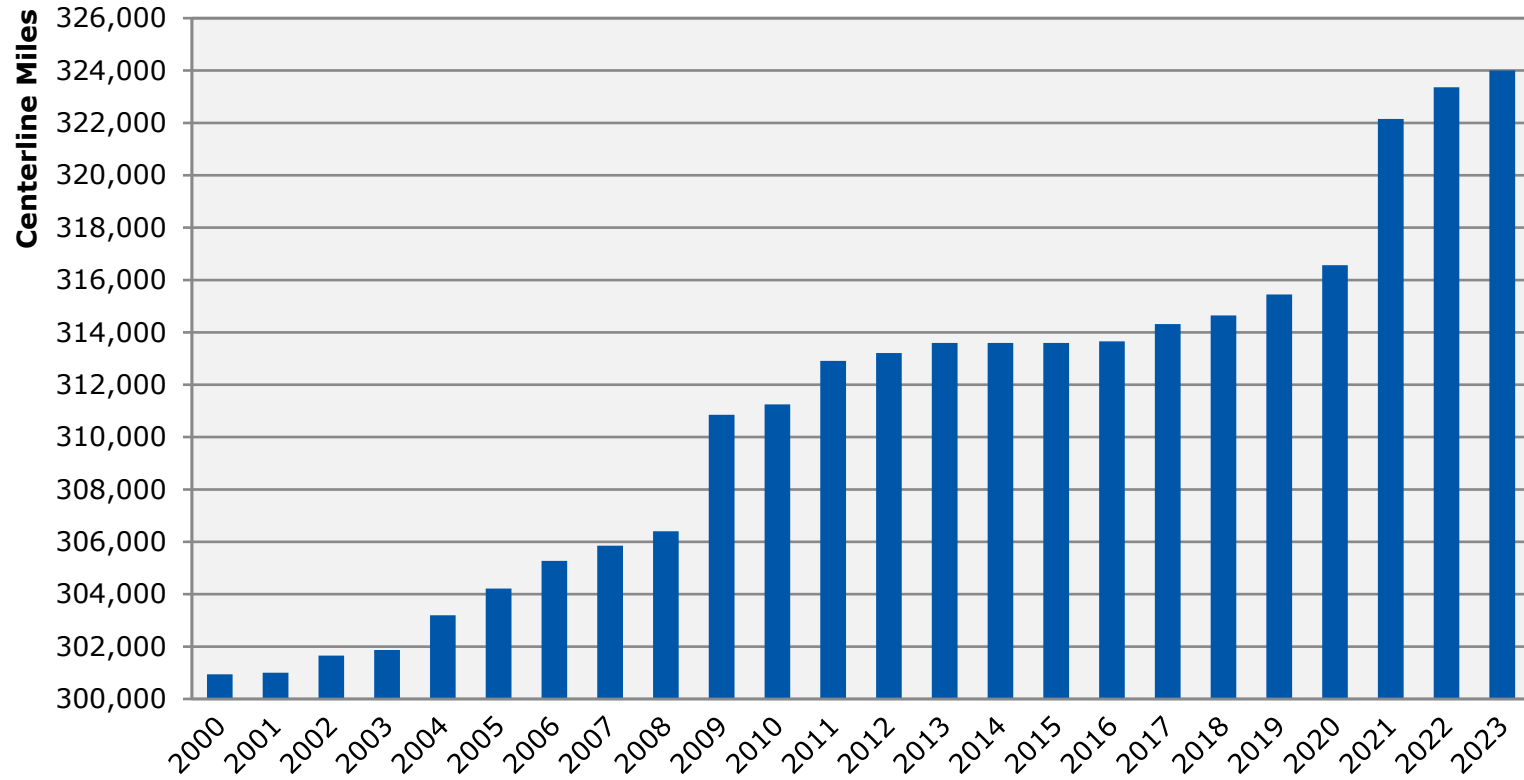


Figure 2: Total Lane Miles by Year

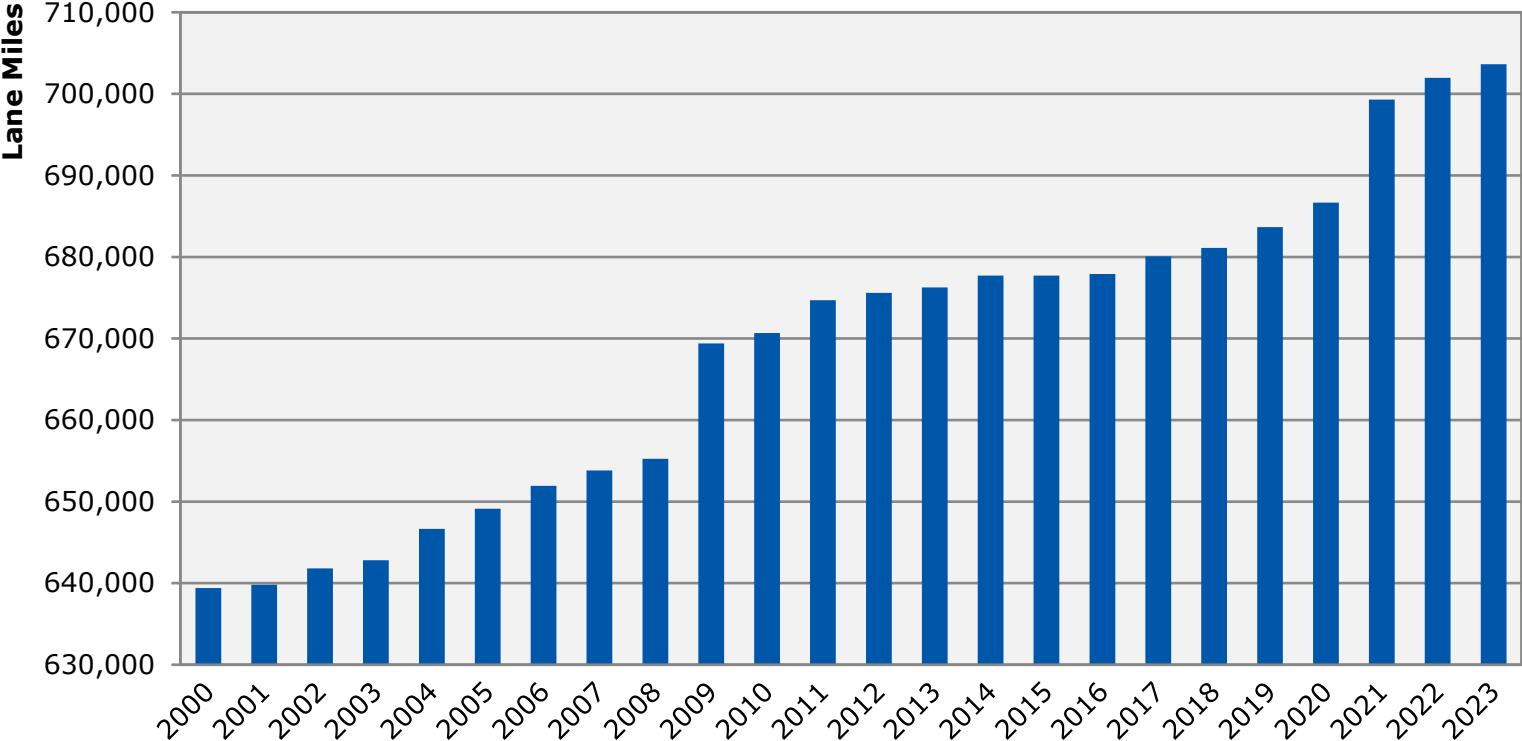


Figure 3: Daily Vehicle Miles of Travel (DVMT) by Year

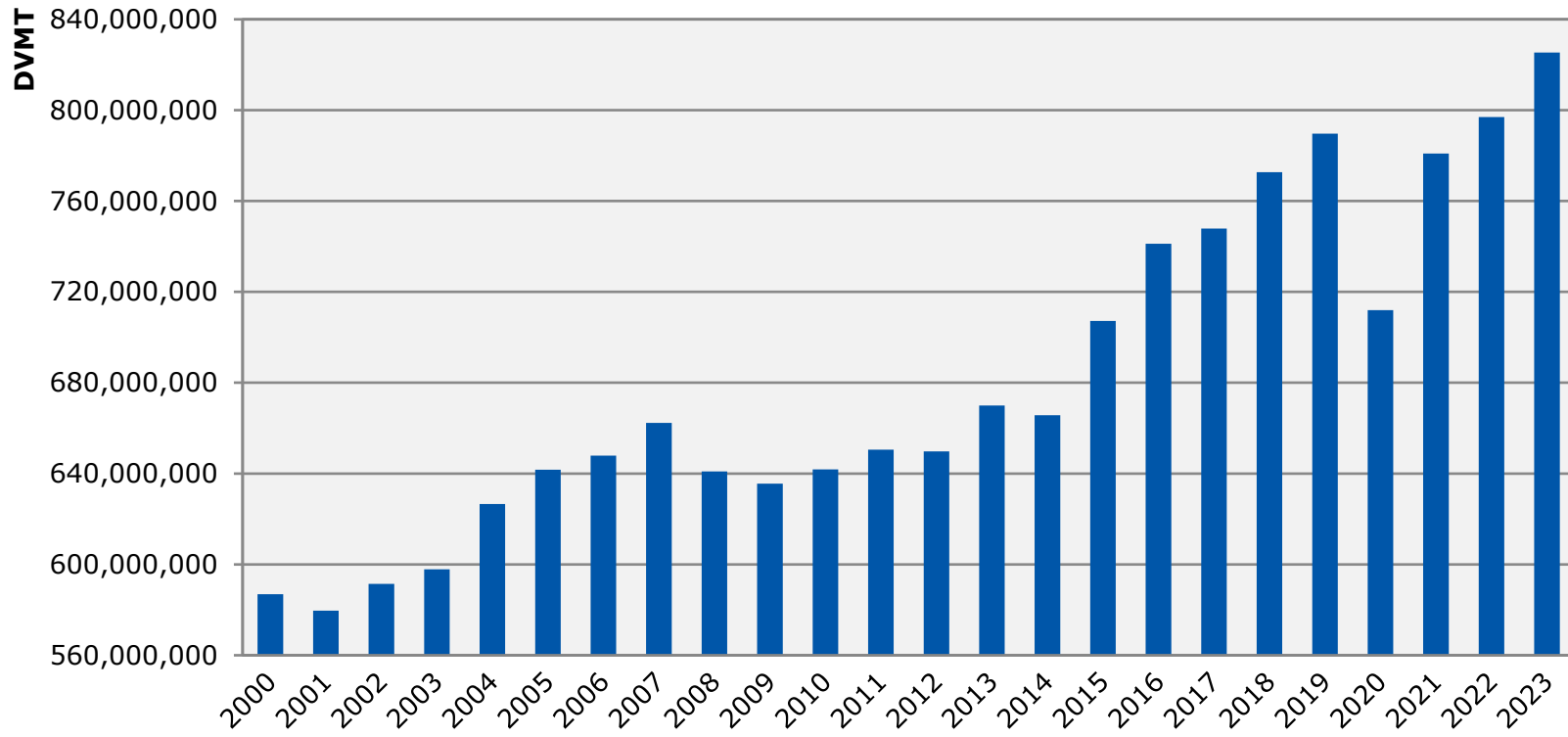


Figure 4: Truck Daily Vehicle Miles of Travel (Truck DVMT) by Year

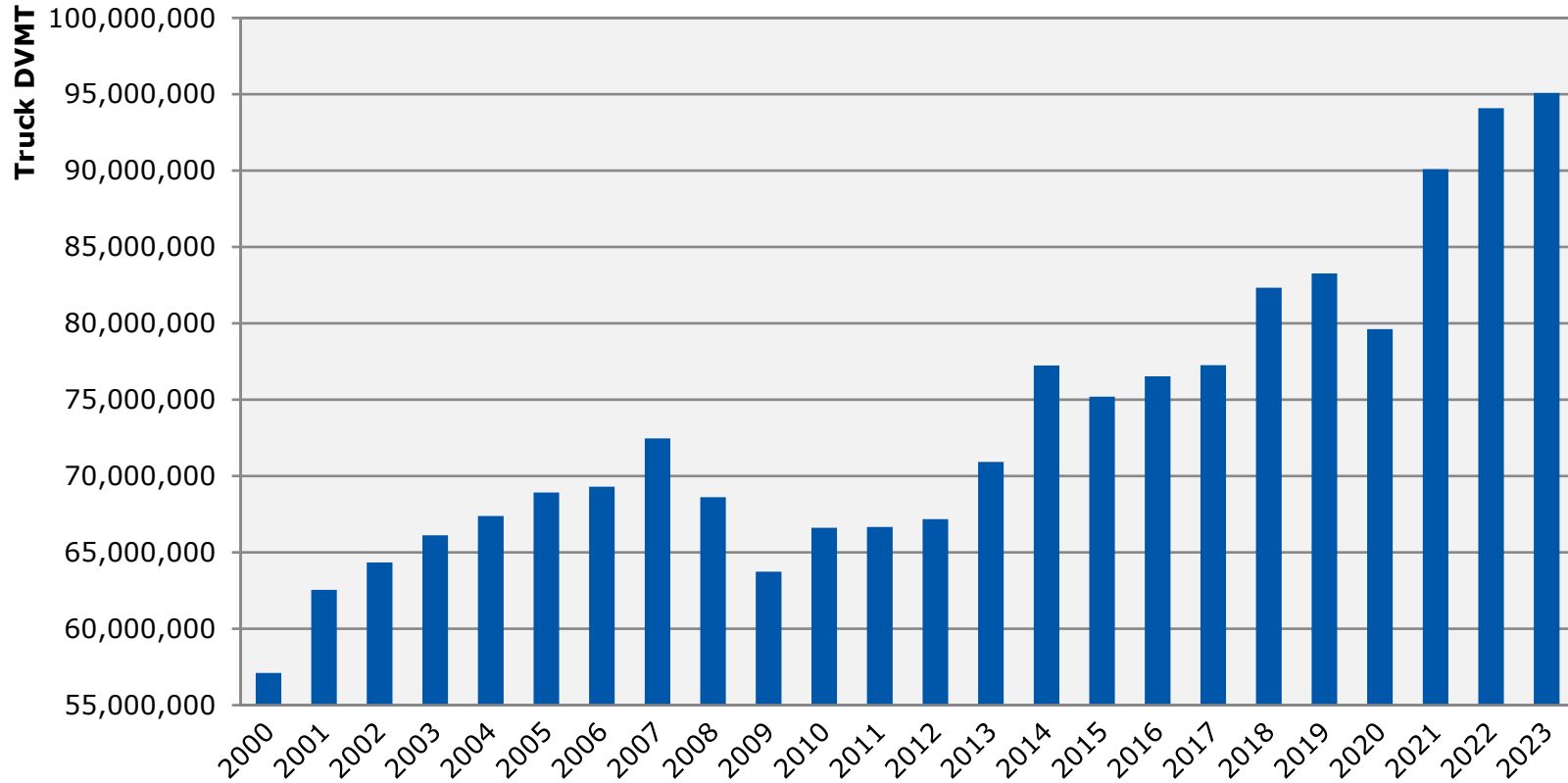
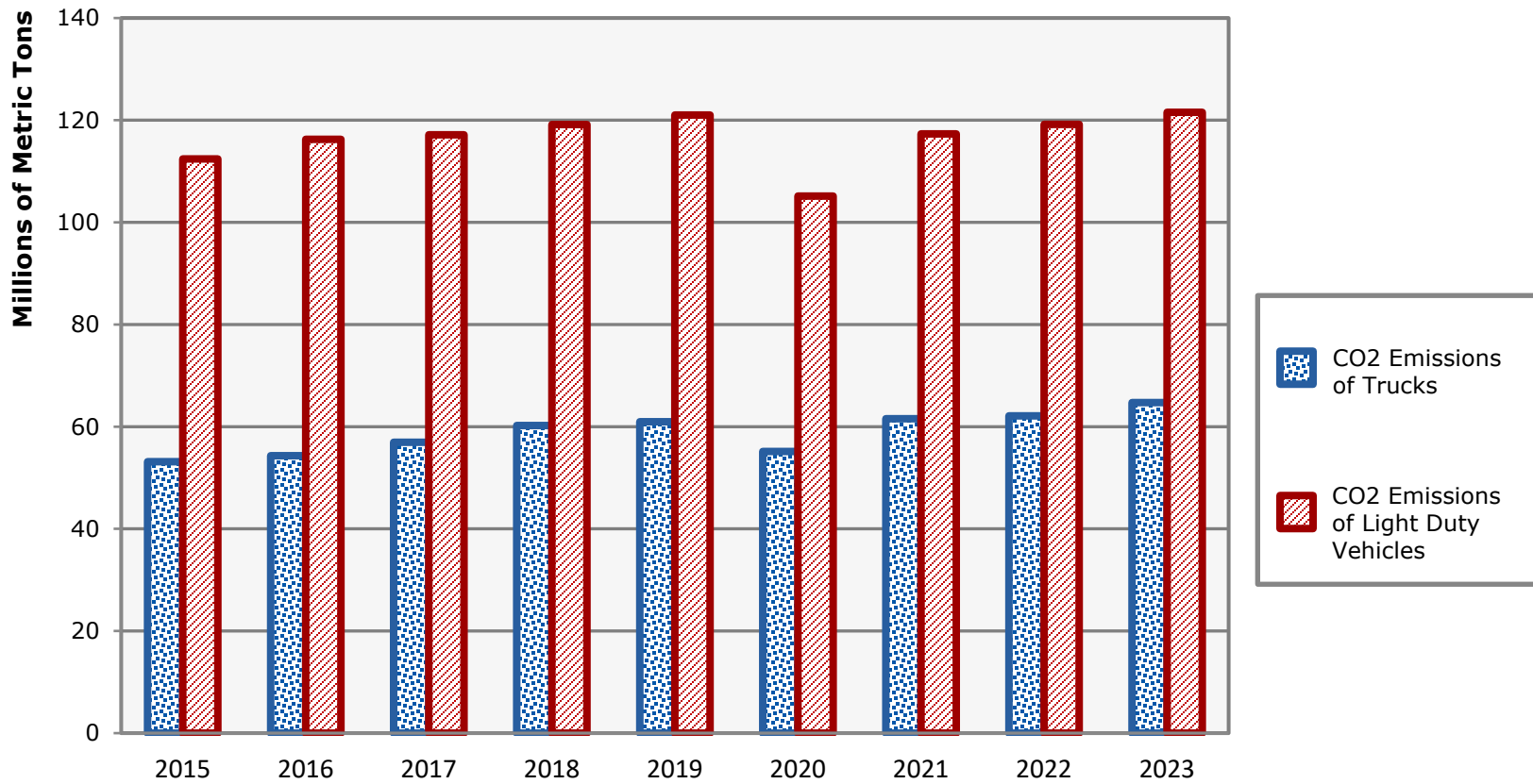
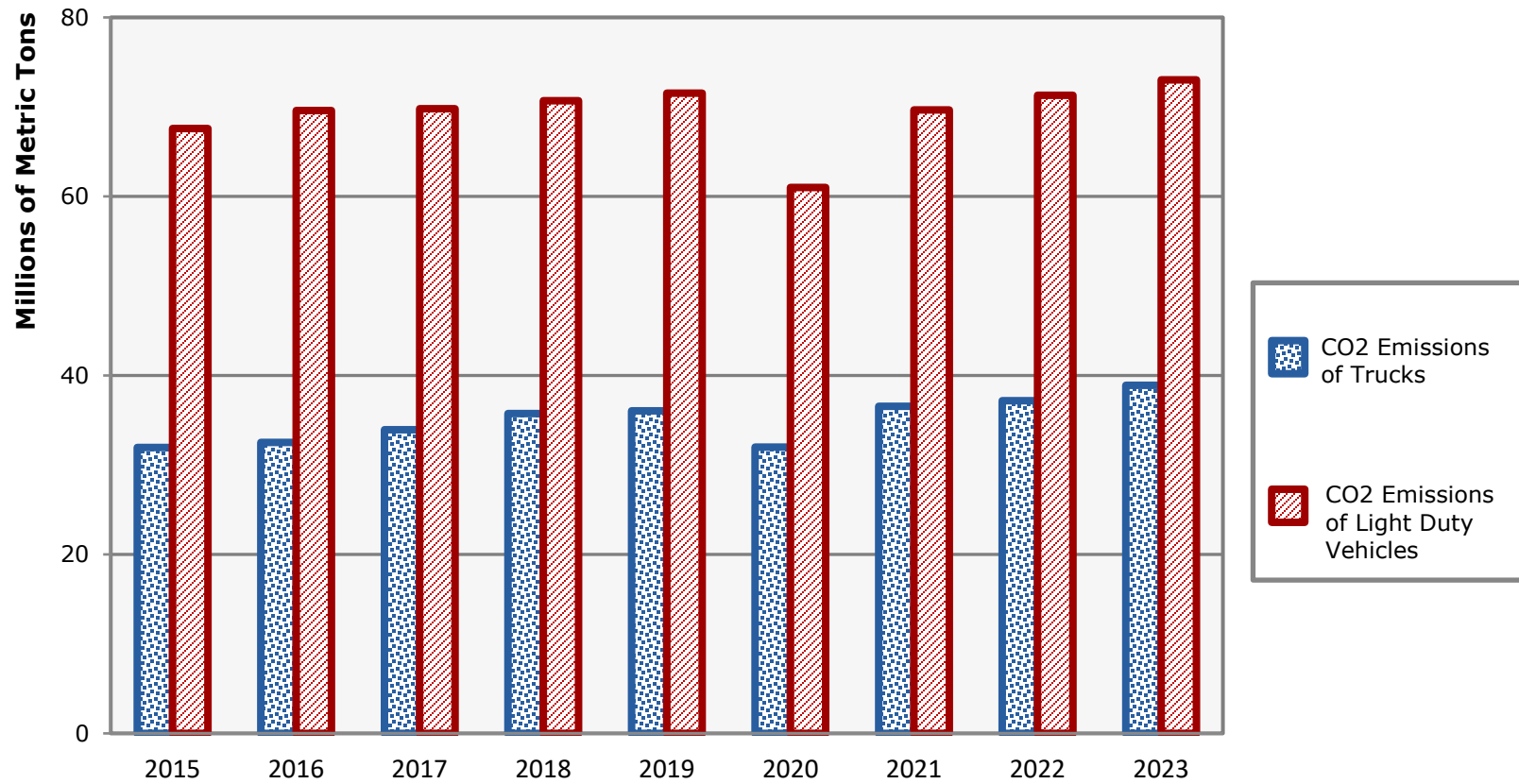


Figure 5: Annual On-Road Carbon Dioxide Emissions - All Roads



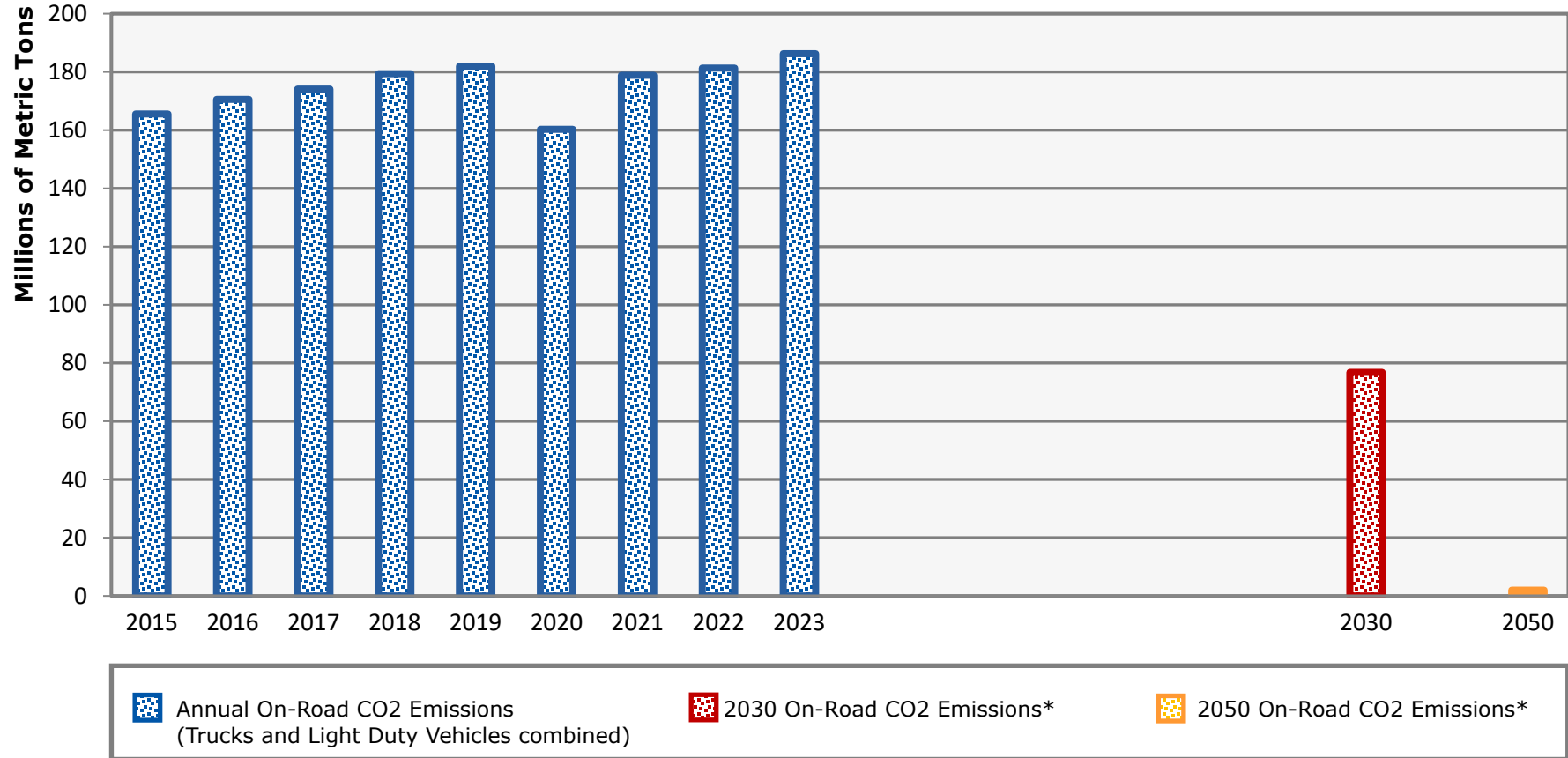
| Statewide Totals: All Roads | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|
| Annual On-Road Truck CO2 (Million Metric Tons) | 53.1 | 54.3 | 56.9 | 60.2 | 61 | 55.1 | 61.5 | 62.1 | 64.7 |
| Annual On-Road Light Duty Vehicle CO2 (Million Metric Tons) | 112.4 | 116.3 | 117.1 | 119.1 | 121 | 105.2 | 117.3 | 119.2 | 121.5 |
| Total Annual On-Road CO2 (Million Metric Tons) | 165.6 | 170.6 | 174.1 | 179.4 | 182 | 160.3 | 178.9 | 181.3 | 186.3 |

Figure 6: Annual On-Road Carbon Dioxide Emissions – National Highway System (NHS)



| Statewide Totals: NHS | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|-------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|
| Annual On-Road Truck CO2 (Million Metric Tons) | 31.9 | 32.5 | 33.9 | 35.7 | 36 | 32 | 36.5 | 37.2 | 38.9 |
| Annual On-Road Light Duty Vehicle CO2 (Million Metric Tons) | 67.6 | 69.6 | 69.8 | 70.7 | 71.5 | 61 | 69.7 | 71.3 | 73 |
| Total Annual On-Road CO2 (Million Metric Tons) | 99.5 | 102.1 | 103.7 | 106.4 | 107.6 | 93 | 106.2 | 108.5 | 111.9 |

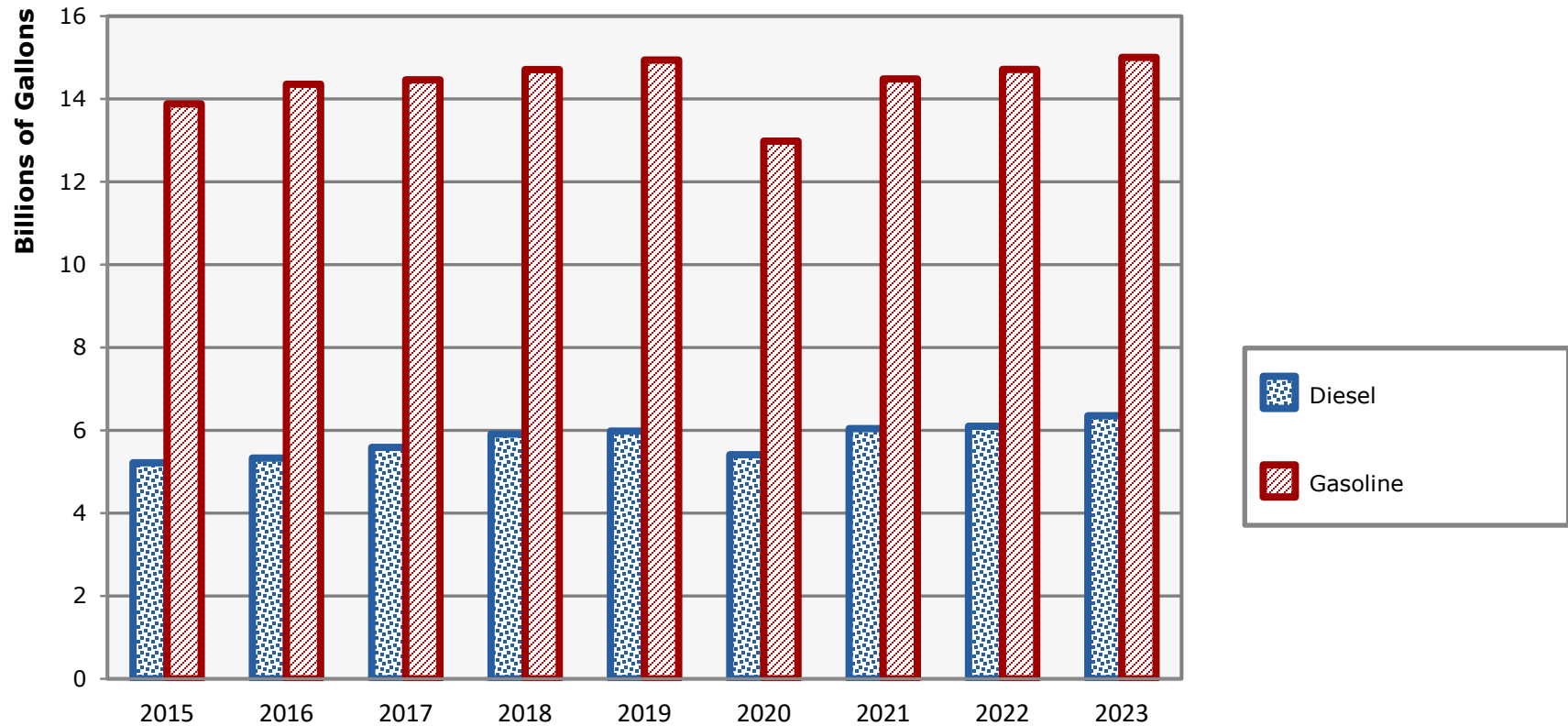
Figure 7: Total Annual On-Road Carbon Dioxide Emissions - All Roads



| Statewide Totals: All Roads | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2030* | 2050* |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Total Annual CO2 (Million Metric Tons) | 165.6 | 170.6 | 174.1 | 179.4 | 182.0 | 160.3 | 178.9 | 181.3 | 186.3 | 76.8 | 0 |

*Basis for 2030 & 2050 CO2 emissions: *Special Report on Global Warming of 1.5°C*, published 2018 by the Intergovernmental Panel on Climate Change (IPCC) - "Global net human-caused emissions of carbon dioxide (CO2) would need to fall by about 45 percent from 2010 levels by 2030, reaching 'net zero' around 2050."

Figure 8: Annual Fuel Consumption - All Roads



| Statewide Totals: All Roads | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Annual Diesel Consumption (Billion Gallons) | 52.1 | 53.3 | 55.9 | 59.1 | 59.8 | 54.1 | 60.4 | 61 | 63.5 |
| Annual Gasoline Consumption (Billion Gallons) | 138.8 | 143.5 | 144.6 | 147.1 | 149.4 | 129.8 | 144.8 | 147.1 | 150 |
| Total Fuel Consumption (Billion Gallons) | 190.9 | 196.8 | 200.5 | 206.2 | 209.2 | 183.9 | 205.2 | 208.1 | 213.6 |