



Table 8. Land Use / Vehicle-Mile Equivalency Table

| Land Use Category | ITE Land Use Code | Development Unit | Trip Gen Rate (PM) | Pass-by Rate | Pass-by Source | Trip Rate | NCTCOG Trip Length (mi) | Adj. For O-D | Adj. Trip Length (mi) | Max Trip Length (mi) | Veh-Mi Per Dev-Unit |
|--|-------------------|--------------------------|--------------------|--------------|----------------|-----------|-------------------------|--------------|-----------------------|----------------------|---------------------|
| PORT AND TERMINAL | | | | | | | | | | | |
| Truck Terminal | 030 | Acre | 6.55 | | | 6.55 | 10.02 | 50% | 5.01 | 4.00 | 26.20 |
| INDUSTRIAL | | | | | | | | | | | |
| General Light Industrial | 110 | 1,000 SF GFA | 0.97 | | | 0.97 | 10.02 | 50% | 5.01 | 4.00 | 3.88 |
| General Heavy Industrial | 120 | 1,000 SF GFA | 0.68 | | | 0.68 | 10.02 | 50% | 5.01 | 4.00 | 2.72 |
| Industrial Park | 130 | 1,000 SF GFA | 0.86 | | | 0.86 | 10.02 | 50% | 5.01 | 4.00 | 3.44 |
| Warehousing | 150 | 1,000 SF GFA | 0.32 | | | 0.32 | 10.83 | 50% | 5.42 | 4.00 | 1.28 |
| Mini-Warehouse | 151 | 1,000 SF GFA | 0.26 | | | 0.26 | 10.83 | 50% | 5.42 | 4.00 | 1.04 |
| RESIDENTIAL | | | | | | | | | | | |
| Single-Family Detached Housing | 210 | Dwelling Unit | 1.01 | | | 1.01 | 17.21 | 50% | 8.61 | 4.00 | 4.04 |
| Apartment/Multi-family | 220 | Dwelling Unit | 0.62 | | | 0.62 | 17.21 | 50% | 8.61 | 4.00 | 2.48 |
| Residential Condominium/Townhome | 230 | Dwelling Unit | 0.52 | | | 0.52 | 17.21 | 50% | 8.61 | 4.00 | 2.08 |
| Mobile Home Park / Manufactured Housing | 240 | Occupied Dwelling Unit | 0.59 | | | 0.59 | 17.21 | 50% | 8.61 | 4.00 | 2.36 |
| Senior Adult Housing-Detached | 251 | Dwelling Unit | 0.27 | | | 0.27 | 17.21 | 50% | 8.61 | 4.00 | 1.08 |
| Senior Adult Housing-Attached | 252 | Occupied Dwelling Unit | 0.16 | | | 0.16 | 17.21 | 50% | 8.61 | 4.00 | 0.64 |
| Assisted Living | 254 | Beds | 0.22 | | | 0.22 | 17.21 | 50% | 8.61 | 4.00 | 0.88 |
| LODGING | | | | | | | | | | | |
| Hotel | 310 | Room | 0.59 | | | 0.59 | 6.43 | 50% | 3.22 | 3.22 | 1.90 |
| Motel / Other Lodging Facilities | 320 | Room | 0.47 | | | 0.47 | 6.43 | 50% | 3.22 | 3.22 | 1.51 |
| RECREATIONAL | | | | | | | | | | | |
| Golf Driving Range | 432 | Tee | 1.25 | | | 1.25 | 6.43 | 50% | 3.22 | 3.22 | 4.02 |
| Golf Course | 430 | Acre | 0.30 | | | 0.30 | 6.43 | 50% | 3.22 | 3.22 | 0.96 |
| Recreational Community Center | 495 | 1,000 SF GFA | 1.45 | | | 1.45 | 6.43 | 50% | 3.22 | 3.22 | 4.66 |
| Ice Skating Rink | 465 | 1,000 SF GFA | 2.36 | | | 2.36 | 6.43 | 50% | 3.22 | 3.22 | 7.59 |
| Miniature Golf Course | 431 | Hole | 0.33 | | | 0.33 | 6.43 | 50% | 3.22 | 3.22 | 1.06 |
| Multiplex Movie Theater | 445 | Screens | 13.64 | | | 13.64 | 6.43 | 50% | 3.22 | 3.22 | 43.85 |
| Racquet / Tennis Club | 491 | Court | 3.35 | | | 3.35 | 6.43 | 50% | 3.22 | 3.22 | 10.77 |
| INSTITUTIONAL | | | | | | | | | | | |
| Church | 560 | 1,000 SF GFA | 0.55 | | | 0.55 | 4.20 | 50% | 2.10 | 2.10 | 1.16 |
| Day Care Center | 565 | 1,000 SF GFA | 12.46 | 30% | B | 8.72 | 4.20 | 50% | 2.10 | 2.10 | 18.31 |
| Middle School/Junior High School | 522 | Students | 0.16 | | | 0.16 | 4.20 | 50% | 2.10 | 2.10 | 0.34 |
| High School | 530 | Students | 0.13 | | | 0.13 | 4.20 | 50% | 2.10 | 2.10 | 0.27 |
| Junior / Community College | 540 | Students | 0.12 | | | 0.12 | 4.20 | 50% | 2.10 | 2.10 | 0.25 |
| University / College | 550 | Students | 0.21 | | | 0.21 | 4.20 | 50% | 2.10 | 2.10 | 0.44 |
| MEDICAL | | | | | | | | | | | |
| Clinic | 630 | 1,000 SF GFA | 5.18 | | | 5.18 | 7.55 | 50% | 3.78 | 3.78 | 19.55 |
| Hospital | 610 | Beds | 1.31 | | | 1.31 | 7.55 | 50% | 3.78 | 3.78 | 4.95 |
| Nursing Home | 620 | Beds | 0.22 | | | 0.22 | 7.55 | 50% | 3.78 | 3.78 | 0.83 |
| Animal Hospital/Veterinary Clinic | 640 | 1,000 SF GFA | 4.72 | 30% | B | 3.30 | 7.55 | 50% | 3.78 | 3.78 | 12.46 |
| OFFICE | | | | | | | | | | | |
| Corporate Headquarters Building | 714 | 1,000 SF GFA | 1.40 | | | 1.40 | 10.92 | 50% | 5.46 | 4.00 | 5.60 |
| General Office Building | 710 | 1,000 SF GFA | 1.49 | | | 1.49 | 10.92 | 50% | 5.46 | 4.00 | 5.96 |
| Medical-Dental Office Building | 720 | 1,000 SF GFA | 3.46 | | | 3.46 | 10.92 | 50% | 5.46 | 4.00 | 13.84 |
| Single Tenant Office Building | 715 | 1,000 SF GFA | 1.73 | | | 1.73 | 10.92 | 50% | 5.46 | 4.00 | 6.92 |
| Office Park | 750 | 1,000 SF GFA | 1.48 | | | 1.48 | 10.92 | 50% | 5.46 | 4.00 | 5.92 |
| COMMERCIAL | | | | | | | | | | | |
| Automobile Related | | | | | | | | | | | |
| Automobile Care Center | 942 | 1,000 SF Occ. GLA | 3.38 | 40% | B | 2.03 | 6.43 | 50% | 3.22 | 3.22 | 6.52 |
| Automobile Parts Sales | 843 | 1,000 SF GFA | 5.98 | 43% | A | 3.41 | 6.43 | 50% | 3.22 | 3.22 | 10.96 |
| Gasoline/Service Station | 944 | Vehicle Fueling Position | 13.87 | 42% | A | 8.04 | 1.20 | 50% | 0.60 | 0.60 | 4.83 |
| Gasoline/Service Station w/ Conv Market | 945 | Vehicle Fueling Position | 13.38 | 56% | B | 5.89 | 1.20 | 50% | 0.60 | 0.60 | 3.53 |
| Gasoline/Service Station w/ Conv Market and Car Wash | 946 | Vehicle Fueling Position | 13.94 | 56% | A | 6.13 | 1.20 | 50% | 0.60 | 0.60 | 3.68 |
| New Car Sales | 841 | 1,000 SF GFA | 2.59 | 20% | B | 2.07 | 6.43 | 50% | 3.22 | 3.22 | 6.66 |
| Quick Lubrication Vehicle Shop | 941 | Servicing Positions | 5.19 | 40% | B | 3.11 | 6.43 | 50% | 3.22 | 3.22 | 10.01 |
| Self-Service Car Wash | 947 | Stall | 5.54 | 40% | B | 3.32 | 1.20 | 50% | 0.60 | 0.60 | 1.99 |
| Tire Store | 848 | 1,000 SF GFA | 4.15 | 28% | A | 2.99 | 6.43 | 50% | 3.22 | 3.22 | 9.61 |
| Dining | | | | | | | | | | | |
| Fast Food Restaurant with Drive-Thru Window | 934 | 1,000 SF GFA | 33.84 | 50% | A | 16.92 | 4.79 | 50% | 2.40 | 2.40 | 40.52 |
| Fast Food Restaurant without Drive-Thru Window | 933 | 1,000 SF GFA | 26.15 | 50% | B | 13.08 | 4.79 | 50% | 2.40 | 2.40 | 31.31 |
| High Turnover (Sit-Down) Restaurant | 932 | 1,000 SF GFA | 11.15 | 43% | A | 6.36 | 4.79 | 50% | 2.40 | 2.40 | 15.22 |
| Quality Restaurant | 931 | 1,000 SF GFA | 7.49 | 44% | A | 4.19 | 4.79 | 50% | 2.40 | 2.40 | 10.05 |
| Coffee/Donut Shop with Drive-Thru Window | 937 | 1,000 SF GFA | 42.93 | 70% | A | 12.88 | 4.79 | 50% | 2.40 | 2.40 | 30.85 |
| Other Retail | | | | | | | | | | | |
| Free-Standing Discount Store | 815 | 1,000 SF GFA | 5.00 | 30% | C | 3.50 | 6.43 | 50% | 3.22 | 3.22 | 11.25 |
| Nursery (Garden Center) | 817 | 1,000 SF GFA | 3.80 | 30% | B | 2.66 | 6.43 | 50% | 3.22 | 3.22 | 8.55 |
| Home Improvement Superstore | 862 | 1,000 SF GFA | 2.37 | 48% | A | 1.23 | 6.43 | 50% | 3.22 | 3.22 | 3.96 |
| Pharmacy/Drugstore w/o Drive-Thru Window | 880 | 1,000 SF GFA | 8.42 | 53% | A | 3.96 | 6.43 | 50% | 3.22 | 3.22 | 12.72 |
| Pharmacy/Drugstore w/ Drive-Thru Window | 881 | 1,000 SF GFA | 10.35 | 49% | A | 5.28 | 6.43 | 50% | 3.22 | 3.22 | 16.97 |
| Shopping Center | 820 | 1,000 SF GFA | 3.73 | 34% | A | 2.46 | 6.43 | 50% | 3.22 | 3.22 | 7.91 |
| Supermarket | 850 | 1,000 SF GFA | 10.50 | 36% | A | 6.72 | 6.43 | 50% | 3.22 | 3.22 | 21.60 |
| Toy/Children's Superstore | 864 | 1,000 SF GFA | 4.99 | 30% | B | 3.49 | 6.43 | 50% | 3.22 | 3.22 | 11.23 |
| Department Store | 875 | 1,000 SF GFA | 1.78 | 30% | B | 1.25 | 6.43 | 50% | 3.22 | 3.22 | 4.01 |
| Video Rental Store | 896 | 1,000 SF GFA | 13.60 | 50% | B | 6.80 | 6.43 | 50% | 3.22 | 3.22 | 21.86 |
| SERVICES | | | | | | | | | | | |
| Walk-In Bank | 911 | 1,000 SF GFA | 12.13 | 40% | B | 7.28 | 3.39 | 50% | 1.70 | 1.70 | 12.34 |
| Drive-In Bank | 912 | Drive-in Lanes | 27.41 | 47% | A | 14.53 | 3.39 | 50% | 1.70 | 1.70 | 24.62 |
| Hair Salon | 918 | 1,000 SF GLA | 1.45 | 30% | B | 1.02 | 3.39 | 50% | 1.70 | 1.70 | 1.72 |

Key to Sources of Pass-by Rates:

A: ITE Trip Generation Handbook 2nd Edition (June 2004)

B: Estimated by Kimley-Horn based on ITE rates for similar categories

C: ITE rate adjusted upward by KHA based on logical relationship to other categories