

3 Changes Since the 11th Edition

The 12th Edition of the *Trip Generation Manual* (TGM) introduces several significant content updates compared to the 11th Edition. Nine new land use classifications and data from more than 550 sites have been added to the 12th Edition. The database was refined for relevance by removing all data prior to 1990. As in previous editions, the addition of new data, elimination of outdated data, and reexamination of existing data resulted in updates to land use codes, independent variables, and land use descriptions. These changes are summarized in this chapter.

The hard copy volumes of TGM contain the most frequently used combinations of land uses, time periods, independent variables, modes, and settings—including land use descriptions and data plots. The ITETripGen web app provides exclusive electronic access to all TGM content, including over 1,100 additional data plots for less frequently used modal data. A new feature in the web app allows users to view the collection date of each data point by hovering over the point within a plot.

Desk Reference Changes

The Desk Reference has been enhanced with three key additions:

- An expanded Chapter 1 on trip generation basics and usage.
- An expanded Chapter 2 on emerging trends.
- A new Chapter 8 outlining approaches to estimating trip generation, with references to the ITE *Trip Generation Handbook* Recommended Practice. Use of the Handbook allows users to better understand and apply the data published in TGM.

Land Use Changes

To ensure the data accurately reflect the composition of each land use, certain data were reassigned to other land uses, corrected, or removed from the database. Several new land uses were also introduced, based on newly submitted data and reclassification of existing land uses.

With the removal of data prior to 1990, the amount of data available for some land uses is limited compared to previous editions. In some cases, the removal of this data resulted in lower trip generation rates for some independent variables, such as industrial and office trip generation rates per square foot. This is especially true for land uses where the 12th edition data collection was limited. ITE encourages practitioners to submit recent data for all land uses. Chapter 9 outlines a procedure for TGM updates.

Port, Freight, and Terminal Land Uses (000s)

- General Aviation Airport (Land Use 022) was removed because all data points were collected prior to 1990.
- Truck and Trailer Parking (Land Use 035) was added as a new land use.
- An independent variable—Annual Enplanements (1000s)—was introduced for Commercial Airport (Land Use 021).

Industrial Land Uses (100s)

- Warehousing (Land Use 150) was renamed Warehouse (Land Use 150) for consistency with current industry terminology.
- The independent variable Occupied Units was removed for Mini-Warehouse (Land Use 151).
- Warehouse-related land uses (154, 155, 156, 157) include an updated definition of the independent variable Gross Floor Area (GFA). These land uses have an alternate definition of mezzanine, which affects how GFA is measured. For these land uses, GFA does NOT include the floor area of the mezzanine. Each land use description page provides additional discussion on this distinction.
- Industrial Recycling Facility (Land Use 175) was added as a new land use.
- Marijuana Cultivation and Processing Facility (Land Use 190) was renamed Cannabis Cultivation and Processing Facility (Land Use 190).

Residential Land Uses (200s)

- Senior Adult Housing—Multifamily (Land Use 252) was removed from Volume 2 (urban) because all data points were collected prior to 1990.
- Residential Planned Unit Development (Land Use 270) was removed because all data points were collected prior to 1990.

Lodging Land Uses (300s)

- Business Hotel (Land Use 312) was renamed Limited-Service Hotel (Land Use 312).
- The independent variable Occupied Units was removed from all lodging uses.

Recreational Land Uses (400s)

- Dog Park (Land Use 414) was added as a new land use.
- An independent variable—Campsites—was introduced for Campground/Recreational Vehicle Park (Land Use 416).
- Marina (Land Use 420) was removed because all data points were collected prior to 1990.
- Amusement Park (Land Use 480) was removed because all data points were collected prior to 1990.
- Soccer Complex (Land Use 488) was renamed Soccer Field (Land Use 488).
- Pickleball Courts (Land Use 489) was added as a new land use.
- The independent variable “Tennis Courts” was renamed “Courts” and is now used for Pickleball Courts (Land Use 489) and Tennis Courts (Land Use 490).
- Health/Fitness Club (Land Use 492) and Athletic Club (Land Use 493) were reexamined, and some data were reassigned. Additional clarification was also added to the land use descriptions.
- Boutique Fitness Studio (Land Use 494) was added as a new land use.

Institutional Land Uses (500s)

- Charter High School (Land Use 539) was added as a new land use.

Medical Land Uses (600s)

- Clinic (Land Use 630) was renamed Walk-In Clinic (Land Use 630).

Retail (800s)

- Nursery (Wholesale) (Land Use 818) was removed because all data points were collected prior to 1990.
- Marijuana Dispensary (Land Use 882) was renamed Cannabis Dispensary (Land Use 882).
- Furniture Store (Land Use 890) was renamed Furniture/Flooring Store (Land Use 890).

Services Land Uses (900s)

- Hair Salon (Land Use 918) was renamed Hair Salon/Spa (Land Use 918).
- A new land use for High-Volume Fast-Food Restaurant (Land Use 929) was added.
- Truck Stop (Land Use 950) was removed after reexamination of the study sites in the database. Applicable data was moved to the new land use Travel Center (Land Use 955).
- A new land use for Travel Center (Land Use 955) was added.
- A new land use for Rental Car Facility (Land Use 960) was added with a land use subcategory for proximity to airports.
- The independent variable—gross floor area—was modified to refer only to the area of the tasting room, not the entire building that houses the tasting room for Wine Tasting Room (Land Use 970)