ITEParkGen

Your Companion to the ITE Parking Generation Manual 5th Edition

For those that have purchased the 5th Edition of the Institute of Transportation Engineers (ITE) Parking Generation Manual, you may be aware of ITEParkGen, the companion software developed by Transoft. But maybe you have yet to use the software, still preferring to use the graphs in the manual, or maybe you developed some parking generation spreadsheets and are still using those with updated 5th Edition data. Or maybe you missed this neat feature altogether.

This document will help introduce you to ITEParkGen and show you some of the benefits, which may convince you to start using the software, or use it more often to assist with parking generation calculations.

Note that this companion guide assumes that the reader is already familiar with the ITE Parking Generation Manual and how to calculate parking generation for land uses. It is recommended that those unfamiliar with the manual read through that first before using ITEParkGen; this software assists with calculations and has limited information on the background of parking generation and how to use the results.

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Step 1 - Logging In

You will have received instructions when you purchased your copy of the ITE Parking Generation Manual for setting up an account to use ITEParkGen for the first time. This included a web app key that you must enter in the lower right corner of the ‘create an account’ link.

The Home Page for ITEParkGen

When you get your e-mail from ITE after purchase of the 5th Edition of the ITE Parking Generation Manual, follow the instructions to create your account
Creating an Account

Once you go through this process you will have your account associated with your e-mail address. Remember that you can only have 1 ITEParkGen account for each copy of the manual you purchased. Bookmark www.iteparkgen.org in your browser and enter your e-mail and password, and you are ready to start calculating.

Note! - Setting up a Project

Since there is no setting up projects in ITEParkGen, users of the OTISS Pro addon for ITETripGen may find this a bit confusing. ITEParkGen only allows for graph lookups, just like the basic version of ITETripGen, so this is just a basic calculation tool, but you can still print out your results to put in the appendix of a report. However, you cannot save your results in the web application like you can with OTISS Pro. This means if you do not print out your results, you will have to start over when you log out. There will be more detail on printing your results from ITEParkGen later in this guide.

Step 2 - Selecting a Land Use

A major effort for the 5th Edition of the ITE Parking Generation Manual was to coordinate all the land uses with the new 10th Edition ITE Trip Generation Manual. Although every effort was made to do this, some data was not available for some land uses, so there are differences between the trip and parking databases. If you cannot find the land use you need, read the descriptions and choose a land use that best fits your needs.

If you know the land use code, you can enter it and click on the magnifying glass to search; or you can use the pull down menus to select the land use group and then the land use. Once you select a land use, the graph and statistics will appear to the right. There will be a link you can click on to read the description of the land use which is the same information that is provided in the ITE Parking Generation Manual. You do not need to look up information in the manual to use ITEParkGen, as all of the information is available when you select a land use.
Selecting a Land Use

Enter the land use number or use the pull down menus (group, then land use)

Scroll Right for More Information

Do not miss out on this statistical information and land use details

This link provides a copy of the land use information from the manual

Note that in some browsers the land use information on the right side may not be visible unless you scroll to the right. Do not miss out on this data, as there is valuable information to help you make the right decisions when selecting the data to use for your project.

Step 3 - Selecting Your Data to Use

You can now choose a data sub-category. For example for a ‘Shopping Centre’ (land use code 820), you can choose between ‘December’ and ‘non-December’ data. Most land uses do not have sub-categories, but be sure to check whenever you select the land use as there may be an option to better refine the data you are using.
Choosing What Data You Want to Use and Calculation Variables

The next step is to choose the independent variable you want to use and the time period you want to analyse. This is no different than calculating trip generation for a land use. However, it should be noted that for weekdays, there is a Monday to Thursday option with a separate Friday for calculating parking generation. You can also select the location, typically the ‘General Urban / Suburban’ location is used, but you can also select data only from a ‘Dense Urban Core’ if that is appropriate for your project, for example. Now you are ready to enter the value of your independent variable and see what the parking generation calculates to.

You can also select the ‘Filter’ option in the top left of the screen to choose only data from particular parts of the United States and Canada. The filtering options will be different based on each land use. For example, if there is no data from Canadian sites, there will not be an option to choose Canada only...
data. You can also filter by year so that data older than a particular year is not used in the calculations. There is also the option to limit the range of the independent variable if you do not want outliers on the graph to influence the average rate or best fit regression lines.

Filtering Data

On the graph in the centre of the screen you will see the results, with a red line projecting up from the independent variable to the average rate and / or best fit regression lines, and then another red line to the parking generation result. You can zoom into the graph to better see your results, which is very helpful on a graph with a large amount of data points.

Graph of Results
Note that only the average rate and fitted curve values are calculated for parking generation. Other calculations, such as the 85th percentile, are not calculated but the statistical information for those other values is available so the user can make those calculations separately if needed. Some applications of parking generation data, such as shared parking analysis, may require a parking generation value other than the average rate or fitted curve results. It is important that if a parking generation value other than those automatically calculated by ITEParkGen is required for an analysis that the statistical information obtained from the right side of the screen is used (see Step 2).

**Step 4 - Printing a Report**

In the top right corner of the graph is a print icon. Click on this icon and choose your printing options in your browser to get the report from ITEParkGen, based on the information you entered in the previous steps. The graph and key statistics will print so you can put this information in your project report to support your parking generation calculations. A sample output report is provided below.
You can now select a new land use and repeat the steps above to get another report for another land use and/or scenario.

I hope this guide is helpful to use ITEParkGen and that you will use it for your parking generation calculations. On the left side of the main screen there is a request for technical support if you find an issue with the program, and you can submit comments. If there is something you feel is missing from ITEParkGen please be sure to submit a comment - this app cannot improve without input from the ITE community.