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## *TracWise I*®

*Importing data for use in  
Microsoft MapPoint® , Street  
Atlas USA® , and similar  
mapping programs*



For Windows 98/NT/2000/ME/XP®

This manual is also on the CD-ROM disk that came with *TracWise I*®

Company Web Site: <http://www.tracwise.com/>

Download Web Site: <http://www.tracwise.com/download/>

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## *General Information*

Data from **TracWise I**<sup>®</sup> can be displayed in a wide variety of mapping programs, such as Microsoft *MapPoint*<sup>®</sup>, Microsoft *Streets & Trips*<sup>®</sup>, Microsoft *AutoRoute*<sup>®</sup>, *Street Atlas USA*<sup>®</sup>, *OziExplorer*<sup>®</sup>, and many others. This manual gives general guidelines for importing data into mapping programs. It also illustrates the procedure in detail, using Microsoft *MapPoint*<sup>®</sup> and *Street Atlas USA*<sup>®</sup> as examples. Other programs will follow similar but not identical procedures.

**TracWise I**<sup>®</sup> produces **text files** (txt extension) that can be imported into mapping programs. The files are produced using the included program *TracWise Converter 2.0*, which has specific selections for *Street Atlas USA*<sup>®</sup>, *MapPoint*<sup>®</sup>, *Streets & Trips*<sup>®</sup>, *AutoRoute*<sup>®</sup>, and *OziExplorer*<sup>®</sup>.

**Note:** If you are using *OziExplorer*, **TracWise I**<sup>®</sup> can produce “plt” files that *OziExplorer* can read directly.

If your mapping program can import data, chances are good that it can use one of the formats above. The general procedure is as follows:

1. Use the program *TracWise Converter 2.0* to generate file(s) for the mapping program you use.
2. *TracWise Converter 2.0* will produce one file for each calendar date. Most mapping programs can display more than one file (calendar date) at a time so that you can overlay dates onto each other. The files that *TracWise Converter 2.0* produces will be named, using the following format:

**YYYY\_MMDD\_<name>.txt** In this format YYYY is the year; MM is the month number; DD is the day number; and <name> is the name you have used in configuring the **TracWise I**<sup>®</sup> unit (or its default if you have not provided a name). This naming style insures that files will sort by date order.

3. Start your mapping program.
4. Find and select its “import” data function (usually a selection in one of the menus at the top of the screen). Remember: If you are using *OziExplorer*, **TracWise I**<sup>®</sup> produces “plt” files that *OziExplorer* can read directly.
5. The mapping program may ask you about the kind of data in each field. Follow the guideline below for that information. Data files from **TracWise I**<sup>®</sup> always have the following order: **latitude, longitude**, followed by other data, depending on the file type.
6. Carefully follow the steps in the mapping program to import data.
7. When the process has finished, the data from **TracWise I**<sup>®</sup> will be displayed on the map. You may have to shift the map to the correct geographic area and/or magnify the map in order see the data.
8. Follow the options in the mapping program to change the style, color, and thickness of the track(s) you have imported.
9. Save the resulting map, using the program’s “save” function. This will generally save both the map and track(s) in the program’s “native” format so that you will not have to import data when you view the tracks again.

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Program	Data Output Format
Street Atlas USA <sup>®</sup>	Latitude, Longitude, hh:mm:ss Dist=<value><Mile/Km>
Microsoft MapPoint <sup>®</sup> , Microsoft Streets & Trips <sup>®</sup> , Microsoft AutoRoute <sup>®</sup>	Latitude, Longitude, MM/DD/YYYY, hh:mm:ss
Ozi Explorer <sup>®</sup>	“plt” file that OziExplorer can read directly.

## *Using TracWise I<sup>®</sup> Data with Microsoft MapPoint<sup>®</sup>*

### *Recommendations:*

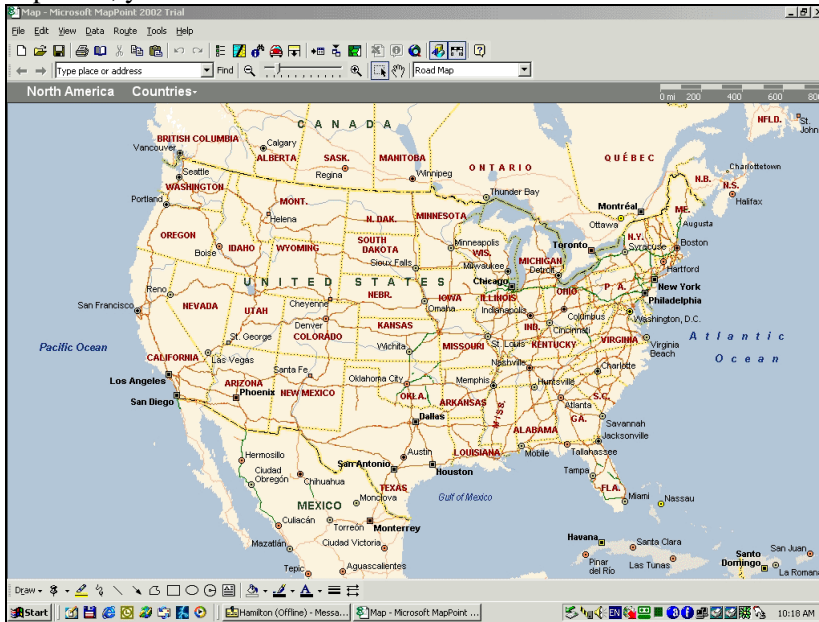
MapPoint<sup>®</sup> is a flexible and powerful mapping program from Microsoft. It can easily work with tracks created by **TracWise I<sup>®</sup>**. There are several considerations that should be kept in mind, however, when working with MapPoint<sup>®</sup>.

1. In general it is best ***not*** to use track data stored in Microsoft Access<sup>®</sup> with MapPoint<sup>®</sup> if the data file exceeds a few thousand records. MapPoint<sup>®</sup> is very slow in loading Access files that are large (tens or hundreds of thousands of data points). TracWise files are usually very large.
2. The recommended approach for viewing tracks in MapPoint<sup>®</sup> is to save the track data from TracWise I in text files (such as those for StreetAtlas USA 2000<sup>®</sup>) and then to import them into MapPoint<sup>®</sup>. MapPoint will let you import multiple tracks one after the other and display them on the map. Each track may be given a different color and style.
3. The following information documents the recommended procedure for creating and loading data files from TracWise in MapPoint

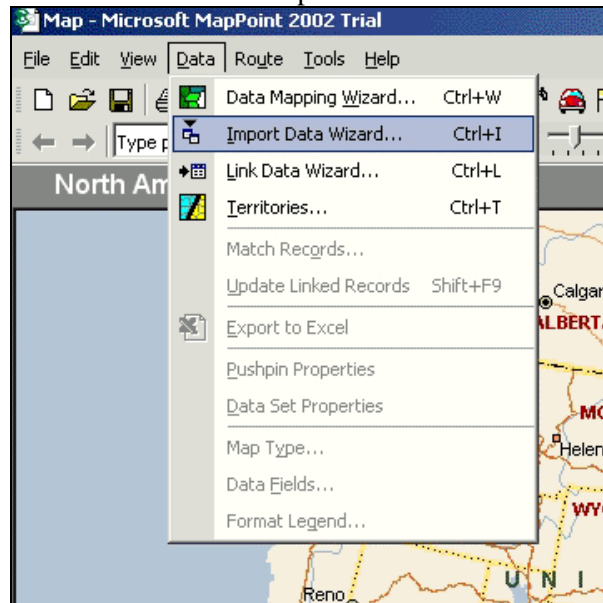
### *Procedure:*

1. Using the program “TracWise Converter 2.0”, process the data using the “Street Atlas USA” tab. This procedure will produce one data file per calendar date that is in the source file.
2. The output data files will have names in the following format:  
**YYYY\_MMDD\_<name>.txt** Where <name> is the name programmed into the TracWise I unit, using the program “TracWise Programmer.”
3. Start the MapPoint<sup>®</sup> program. Import the file(s) saved in step two above, following the pictorial steps on the next pages

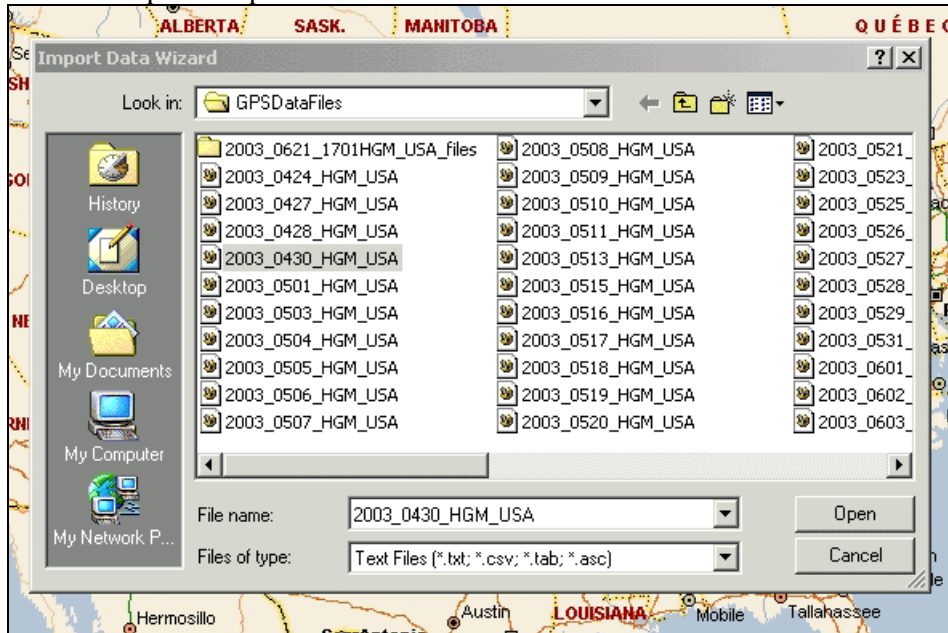
On starting MapPoint, you will see a screen similar to the one below:



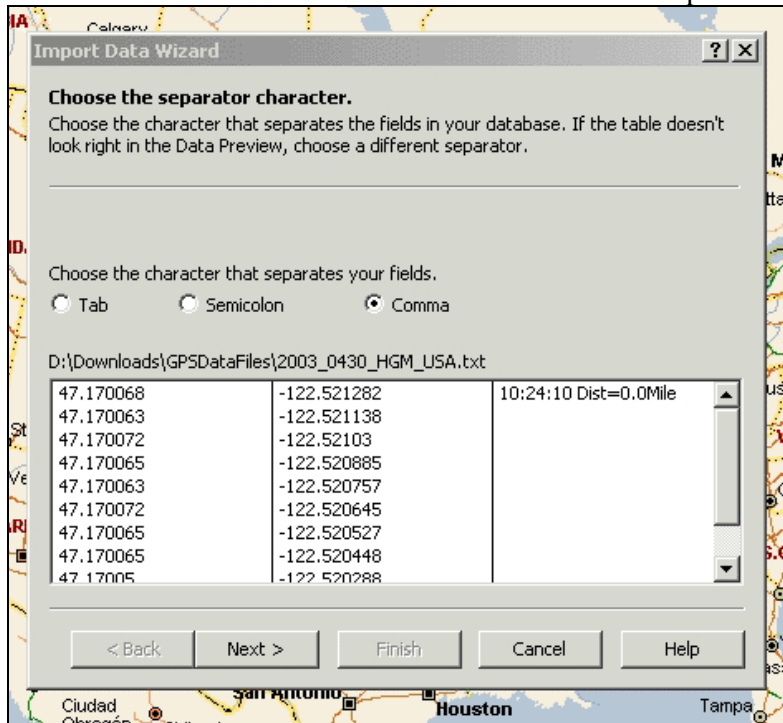
Select **Data** → **Import Data Wizard** at the top of the screen.



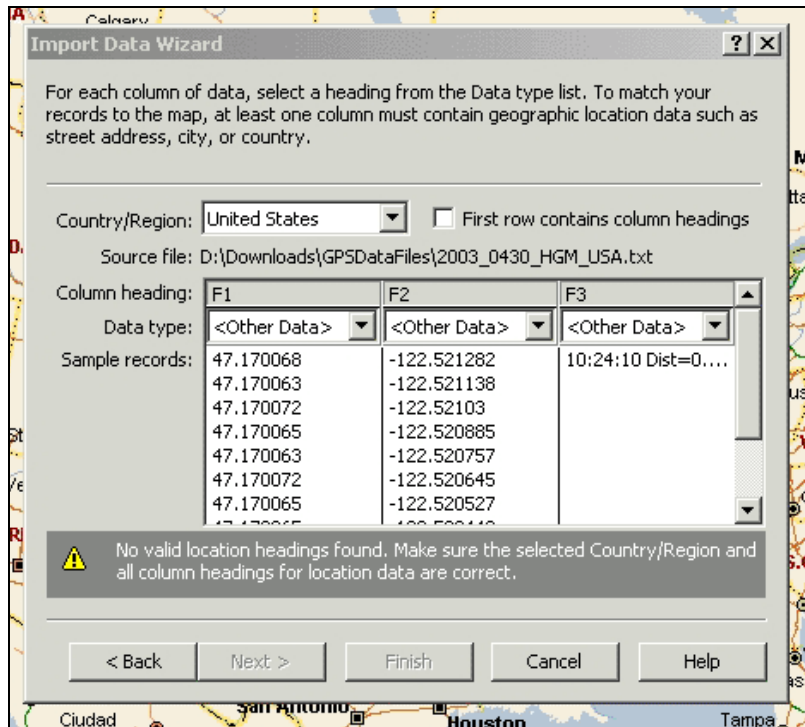
When prompted, point to the directory with the data file you want to view in MapPoint. Click on its name. Then press “Open.”



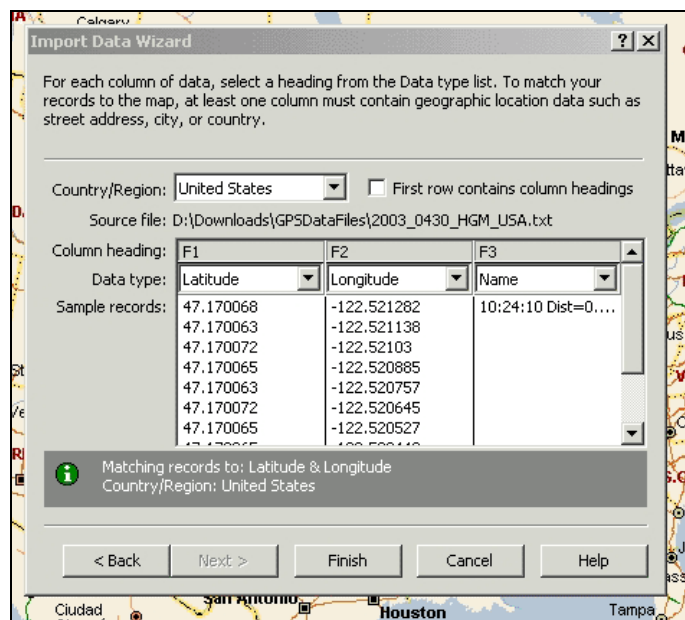
Make sure that the “comma” box is checked in the screen below. Then press “Next.”



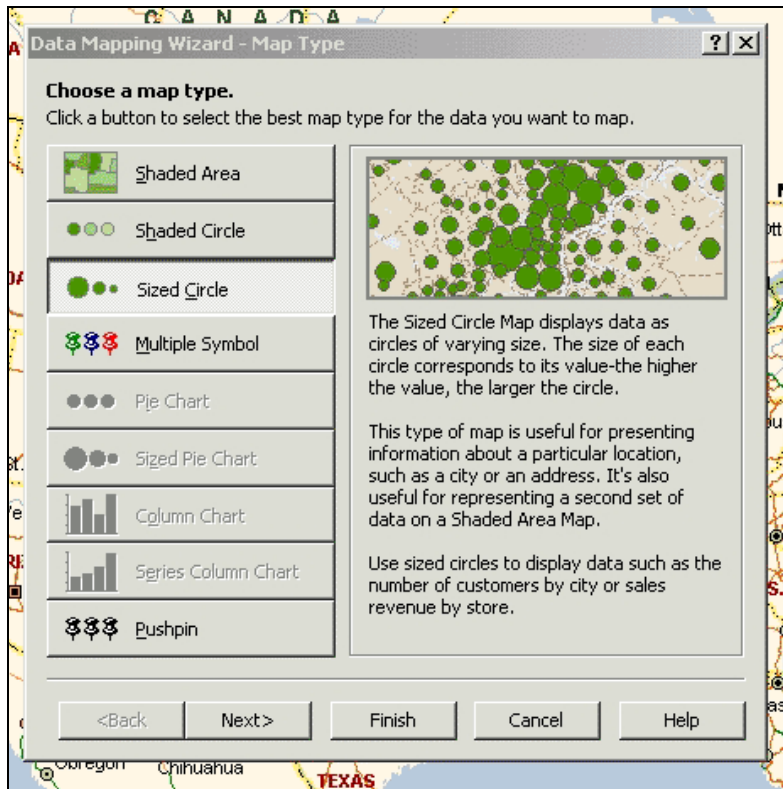
The next screen asks you to define what is in each column in the data file.



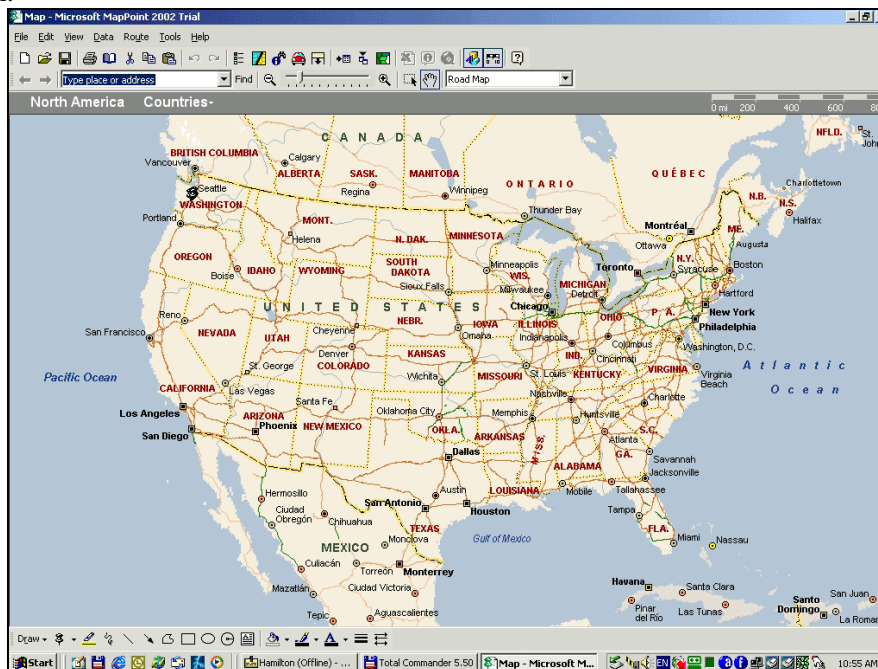
Find “**Data Type**” in the left column. Click on the down arrow next to the first box to the right where it says “<Other Data>”. Scroll the list and select “**Latitude**”. Do the same for the next box to the right – only select “**Longitude**.” In the third box, select “**Name**”. Then click on “**Finish**.”



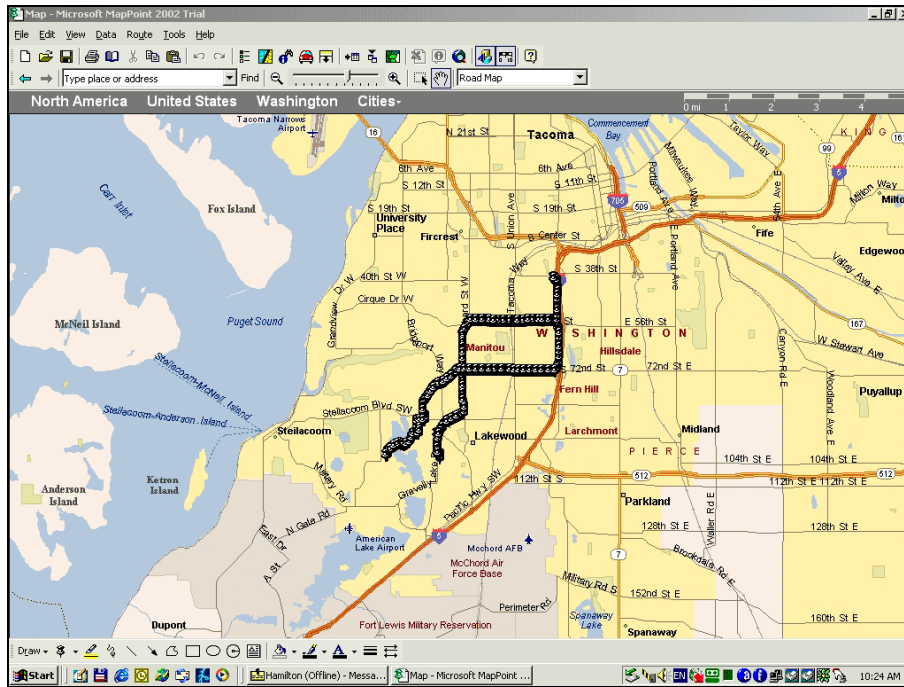
When the next screen appears, press “**Cancel**” to finish laying the track. **Do not** press “**Finish**” as that will cause “**Sized circles**” or something similar to appear instead of the track.



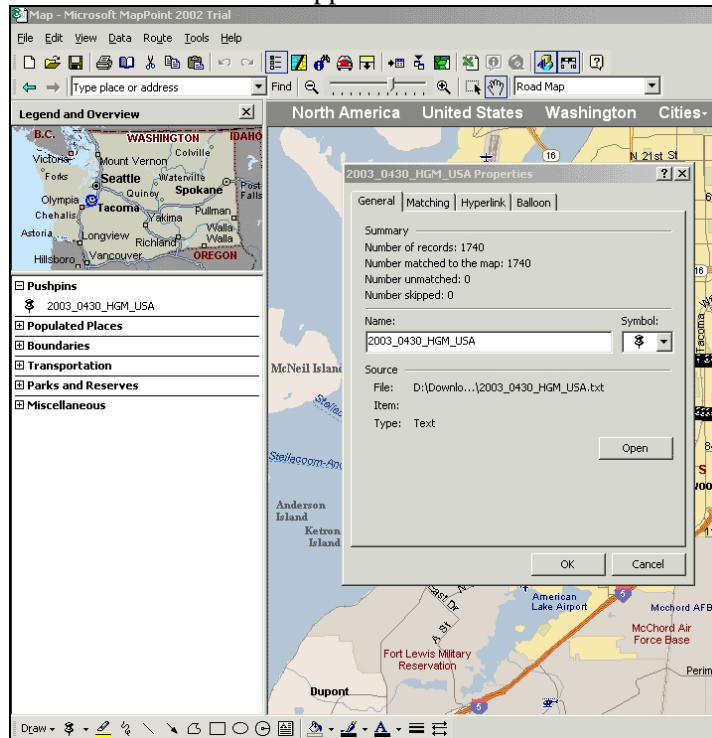
The track is now drawn on the map. In the sample below it is near Seattle in the upper-left hand corner. Magnify the map (+ symbol) and move it (click on the **hand symbol** and then drag the map by holding down the left cursor key and moving the mouse) to center the track on the screen.



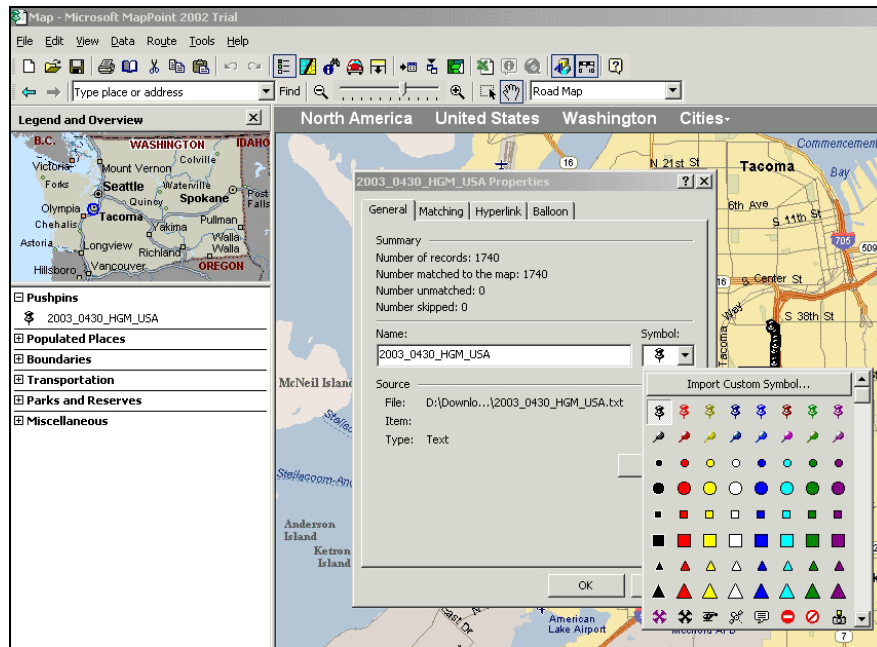
You should see a screen similar to the one below – the geographic region may be different, of course.



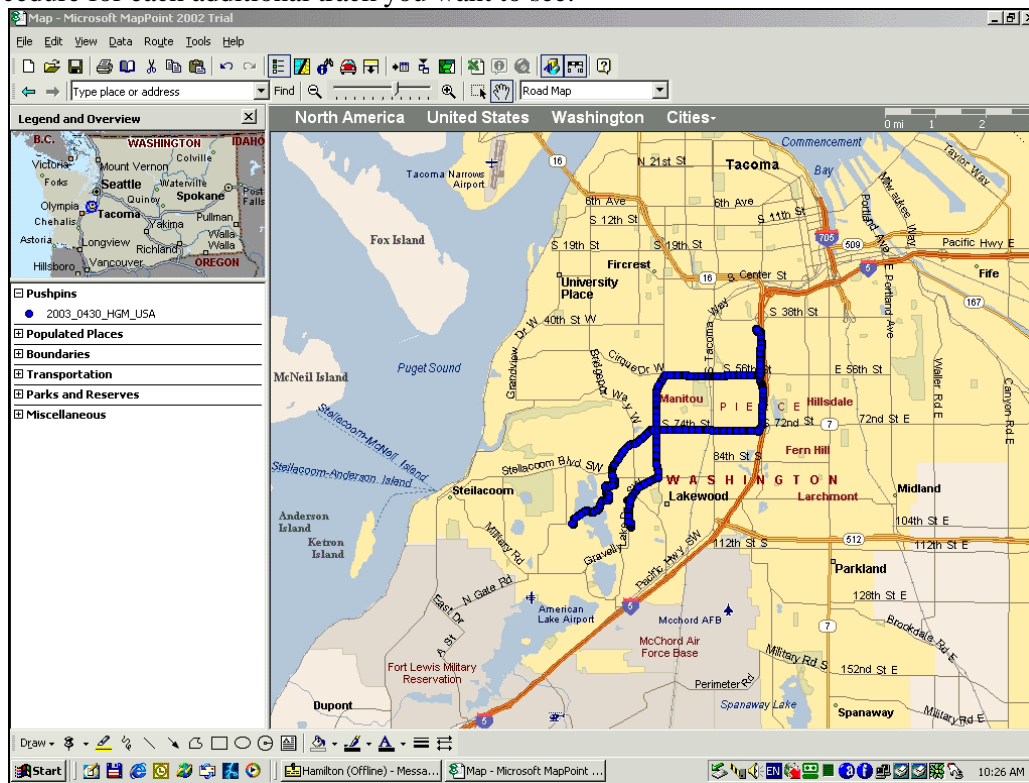
Open the “**Legend and Overview**” window (if it is not already open) by clicking on **View** → **Legend and Overview**. Next click on “**Pushpins**” and then on the name of the file that appears. The submenu shown below will appear.



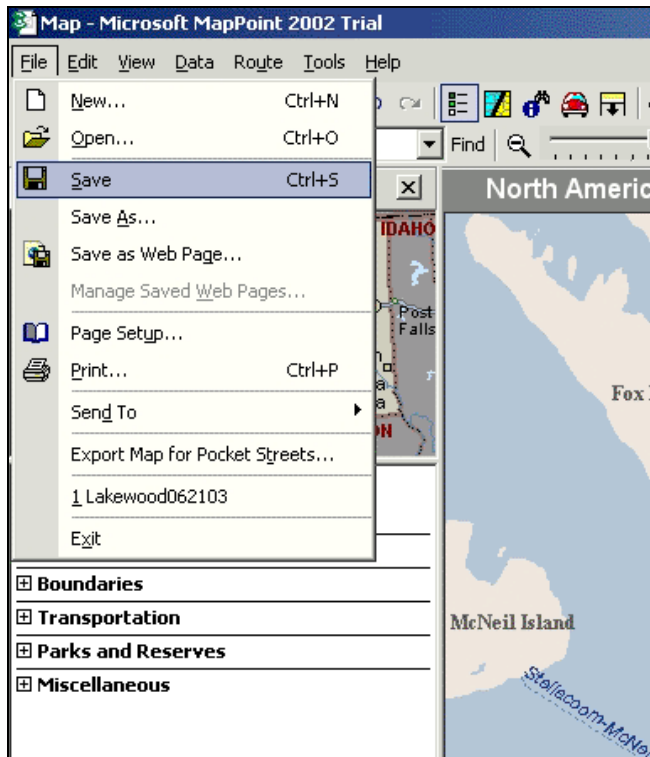
In the submenu click on the downarrow next to the pushpin symbol. A list of symbols will appear. Double click on the symbol that you want to use to display the track.



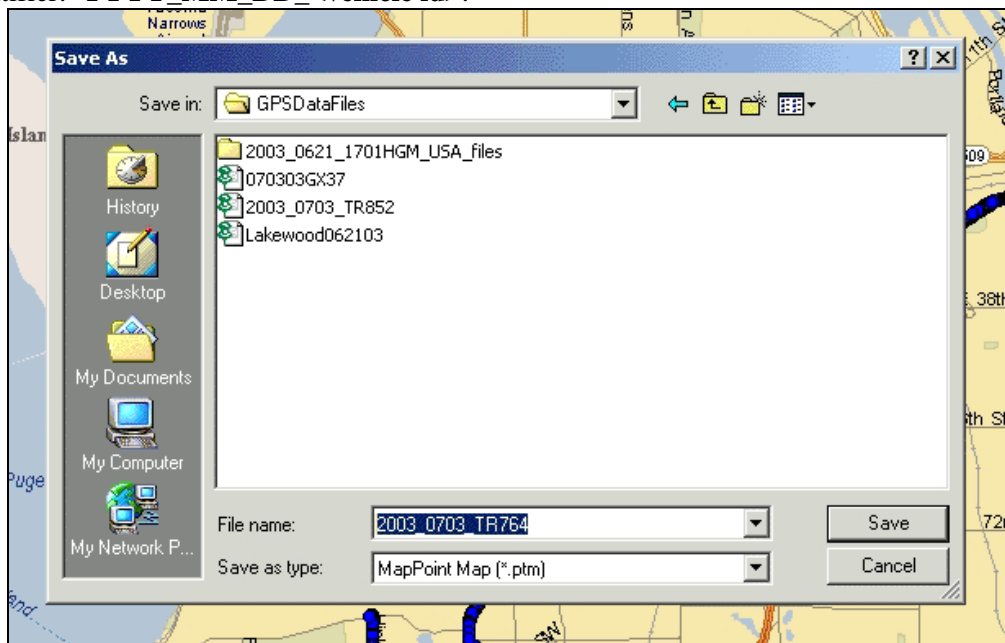
The track will now be changed to match your choice, as shown below. Repeat the above procedure for each additional track you want to see.



If you wish, you can save the map with the track(s) (to avoid having to import it (them) each time). To save the map, select **File** → **Save**.



Give the file a name and press "Save." A note about file names. We recommend the following name format because it saves the files in chronological order by the vehicle identifier: **YYYY\_MM\_DD\_<vehicle id>**.



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## Using TracWise I<sup>®</sup> Data with Street Atlas USA<sup>®</sup>

### General Recommendations:

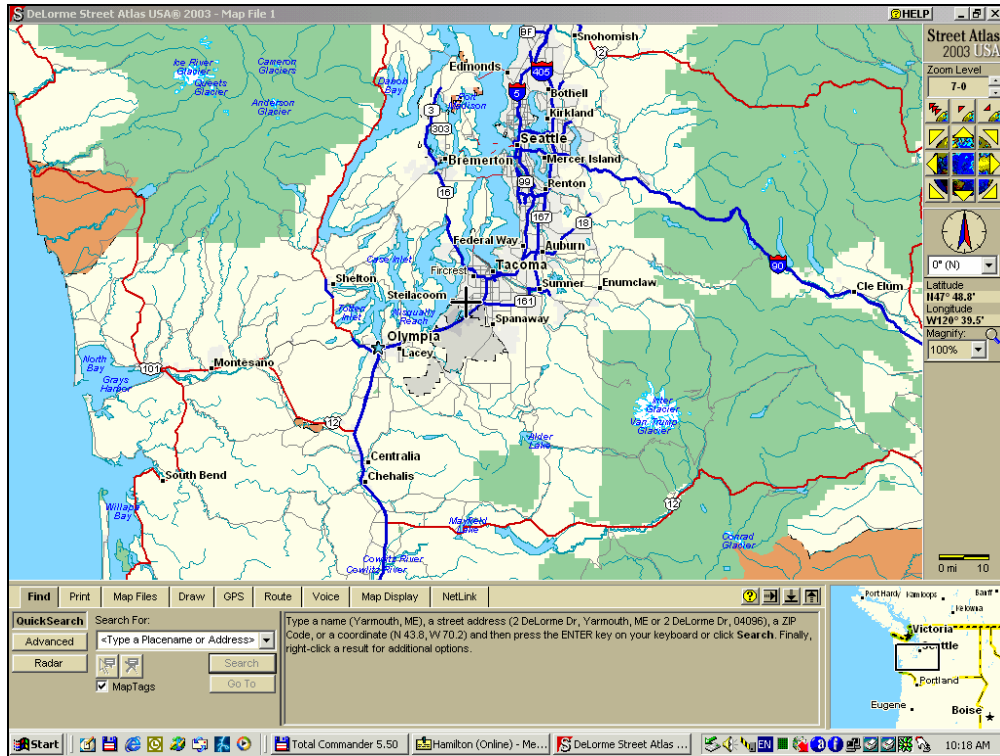
Street Atlas USA<sup>®</sup> is a relatively inexpensive and flexible mapping program from DeLorme. It can easily work with tracks created by *TracWise I*<sup>®</sup>. There are several considerations that should be kept in mind, however, when working with Street Atlas USA<sup>®</sup>.

4. You can view one or multiple tracks from TracWise I in Street Atlas USA<sup>®</sup>. However, there is a limit to the number of tracks that can be viewed at one time. That limit depends, in part, on the amount of memory in your computer. Consult the documentation that came with the program for details.
5. The following information documents the recommended procedure for creating and loading data files from *TracWise I*<sup>®</sup> into Street Atlas USA<sup>®</sup>.

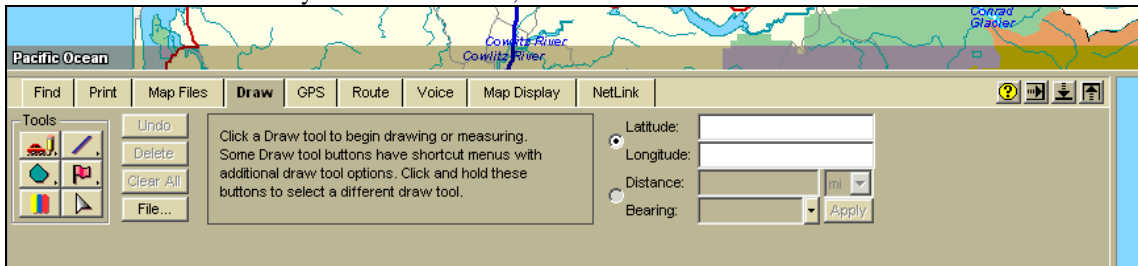
### Procedure:

4. Using the program "TracWise Converter 2.0", process the data using the "Street Atlas USA" tab. This procedure will produce one data file per calendar date from the source file on the Compact Flash Card.
5. The output data files will have names in the following format:  
YYYY\_MMDD\_<name>.txt Where <name> is the name programmed into the *TracWise I*<sup>®</sup> unit, using the program "TracWise Programmer."
6. Start the Street Atlas USA<sup>®</sup> program. Import the file(s) saved in step two above, following the pictorial steps on the next pages.
7. Once you have loaded a track or tracks to view using the procedure given here, consult the documentation provided with Street Atlas USA<sup>®</sup> to learn how to work further with the program.

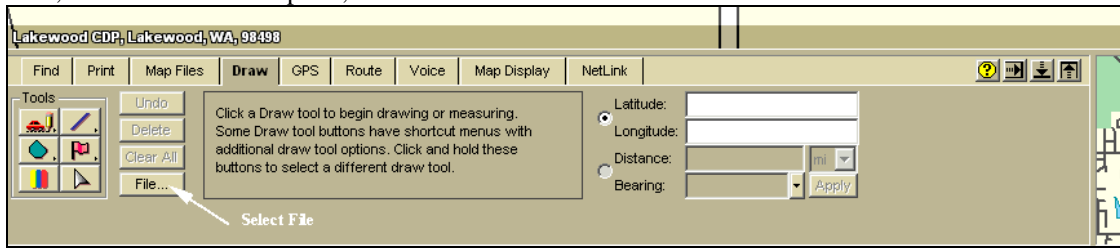
On starting Street Atlas USA<sup>®</sup>, you will see a screen similar to the one below. The region shown may be different.



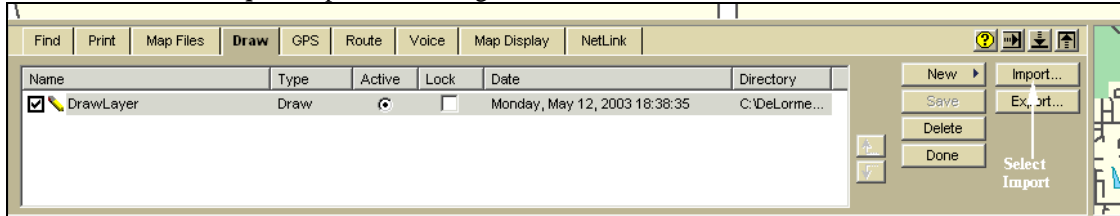
At the bottom of the screen you will see a menu, as shown below. Click on the “Draw” tab.



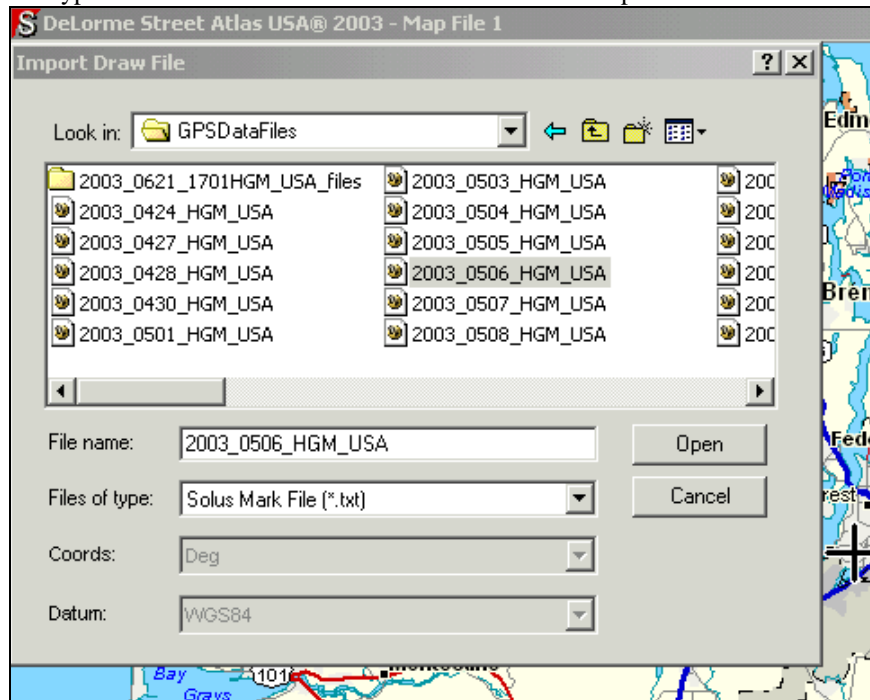
Next, click on the “File” option, as shown below:”



Next, click on the “Import” option on the right side, as shown below:



A standard Windows menu will appear, asking you to select the file to use. Locate the file that you want by indicating the directory it is in (“Look in:” as shown below). Then click on the name of the file you want to view or type its name in the “File name:” box. Then click “Open.”.



The file will open and be displayed on the map screen, as illustrated below. Repeat the above procedure to load and display additional tracks. Consult the documentation that came with Street Atlas USA® for full information on working with the program.

DeLorme Street Atlas USA@ 2003 - Map File 1

Street Atlas  
2003 US

Zoom Level  
13-0

Latitude  
47° 9.658'

Longitude  
122° 31.876'

Magnify  
100%

0 ft 1000

Find Print Map Files Draw GPS Route Voice Map Display NetLink

Name	Type	Active	Lock	Date	Directory
<input checked="" type="checkbox"/> 2003_0520_HGM_USA	Draw	<input checked="" type="radio"/>	<input type="checkbox"/>	Monday, July 07, 2003 10:24:22	C:\DeLorme...
<input checked="" type="checkbox"/> DrawLayer	Draw	<input type="radio"/>	<input type="checkbox"/>	Monday, May 12, 2003 18:38:35	C:\DeLorme...

New Import...  
Save Export...  
Delete  
Done

Start Total Comman... Hamilton (Onli... DeLorme Str... 10:25 AM