GeoLytics

STREETCD® 2000B

(Release 2.0)

USER GUIDE

Contents

It is **very important** that this serial number be **entered exactly** as shown, with no spaces or dashes, only numeric or alpha values. Do not use the serial number from another GeoLytics product, which might appear to install correctly, but will then produce error messages or will not produce accurate results.

Introduction

What data does the StreetCD have?

StreetCD® includes all layer data from the Tiger/Line® 2000 files. **StreetCD** generates layer data in two formats: ArcView® Shape (SHP) files and MapInfo® MID/MIF files. The source database is highly compressed using GeoLytics® proprietary compression technology (DAC®). The data for several states are written to a single CD-ROM; we call this collection of states a "region". There are 12 regional CD-ROMs. You can use any of them simultaneously.

How the data is organized?

The **StreetCD** data is organized on a per-layer and per-county basis. It means you select the Tiger layers and counties to be included in the output files. By default, each layer-county combination is written as a separate result file using certain naming conventions. You can make the system merge all counties for each layer into a single file.

Water issues

All the polygon data, except for hydrographic data, tracts and block groups, do not include water polygons. The tract and block group data are included in two versions: without water polygons and with water polygons. The "water" versions are slightly smoothed.

Installation

1. Insert the **StreetCD 2000B SET-UP** disk into your CD-ROM drive.

2. Click the **Start** button on the taskbar and choose **Run** from the Start menu.

3. Type **D:\setup.exe** (assuming D is the letter of your CD-ROM drive).

4. Click on **OK.**

OR click on the icon labeled "Set up" from the Set-up disk

5. Follow the on-screen instructions. Note: If you have previously installed **StreetCD 2000**, un-install it now.

6. When prompted, enter your name, company name, and serial number.

7. After the installation is complete, you can start **StreetCD 2000** at any time by double clicking on the **StreetCD 2000** icon or by choosing **Programs** on the Start menu and selecting **StreetCD 2000**.

Note: To operate the program, the original CD must be in the same CD-ROM drive from which the program was installed. Otherwise, the program will function, but you will receive errors when running reports.

Step A: Select Tiger2000 Layers

You select layers using the first page of the user interface. To select a layer, click on a layer's checkbox.

Tiger2000 layers

StreetCD includes 34 "base" Tiger® layers. They provide boundary information for all major geographic divisions in the U.S. (such as counties or Census blocks), and also for all roads and many other linear and point objects. For linear layers, further distinction can be made based on the object's CFCC code. In other words, StreetCD can generate all objects for a certain layer or only a subset of objects whose CFCC codes belong to a user-defined list.

StreetCD Output Files

StreetCD generates ArcView files as its output. Each ArcView file consists of a shape file (*.shp), an index file (*.shx) and a data file (*.dbf). If a MapInfo output is requested, StreetCD still generates an ArcView output and then converts it to MapInfo's import format (*.mif and *.mid files).

Line and node files

Eight Tiger layers represent linear objects:

1. Roads (Type A lines)
2. Railroads (Type B lines)
3. Miscellaneous Ground Transport (Type C lines)
4. Landmark Lines (Type D lines)
5. Physical Features (Type E lines)
6. Non-visible (Type F lines)
7. Hydrographic lines(Type H lines)
8. Unknown (Type X lines)

For these layers, StreetCD generates 2 sets of ArcView files: line files, CccccLKt .*, and node files, CccccNDt.*, where the Ccccc is a county FIPS and the `t` is a line`s type letter (A,B,...X). Let us consider a particular line file set. It consists of a SHP file (with layout data for the lines), a SHX file (an index) and a DBF file (with non-layout data, such as names, etc.). The line DBF file includes, in particular, numeric identifiers for ending points of each line as Fnode and Tnode fields. The corresponding node file includes 2 entries for each line, namely, points for Fnode and Tnode. Node and line entries are linked via Fnode/Tnode fields in the line DBF file and Node_id field in the node DBF file. For example, a line with Fnode = 235 and Tnode = 134 will correspond to two points in the Node with Node_id = 235 and Node_id = 134.

CFCC filtering

For 8 Tiger linear layers you can specify additional selection criteria information based on line's CFCC (Census Feature Class Code). Click on the CFCC checkbox next to the layer's name and select CFCC you are interested from a popup dialog box. Only lines with CFCC you have selected will be included in the output.

Water areas

All the polygon data, except for hydrographic data, tracts and block groups, do not include water polygons. The tract and block group data are included in two versions: without water polygons and with water polygons. The "water" versions are slightly smoothed. Select "Water" checkbox next to the layer name to generate boundaries with water polygons.

Step B: Select Areas

State list
When StreetCD starts, each available CD-ROM drive in you machine is scanned. The StreetCD database directories that contain state information are recognized and displayed in the State list.

County list
Every time you select a state, its counties are added to the County list. If you de-select a state, its counties are removed from the County list.

Selected list
Every time you select a county, it is added to the Selected list. Only counties in the Selected list will be included in the output files.

- **elm** for Elementary School Districts
- **mid** for Middle School Districts
- **sec** for Secondary School Districts
- **uni** for Unified School Districts
- **wat** for Water polygons
- **msa** for CMSA/MSA polygons
- **pms** for PMSA polygons
- **cdc** for Current Congressional Districts
- **hse** for State House Districts
- **sen** for State Senate Districts
- **alt** for alternative feature names
- **add2** for additional address matching information
- **zip** for zip+4 left and right information
- **add** for Key Geographic Location addresses

Merging counties for each layer

You can merge all output files corresponding to the same layer, so the information for all selected counties will go into a single file. Click on Merge checkbox and specify an output file name.

Progress bar

When you click **Go** button, the **Run dialog box** with a progress bar opens. The progress bar shows what output layer-county combinations are being written. As soon as it reaches 100%, you can click on Close button to use results. Closing the Run dialog box prematurely aborts the current run without deleting already created output files.

Log

StreetCD writes a log file for the current run. Each entry corresponds to a layer-county output combination. The file provides a useful link between your selections and output files.

Step D: View Results
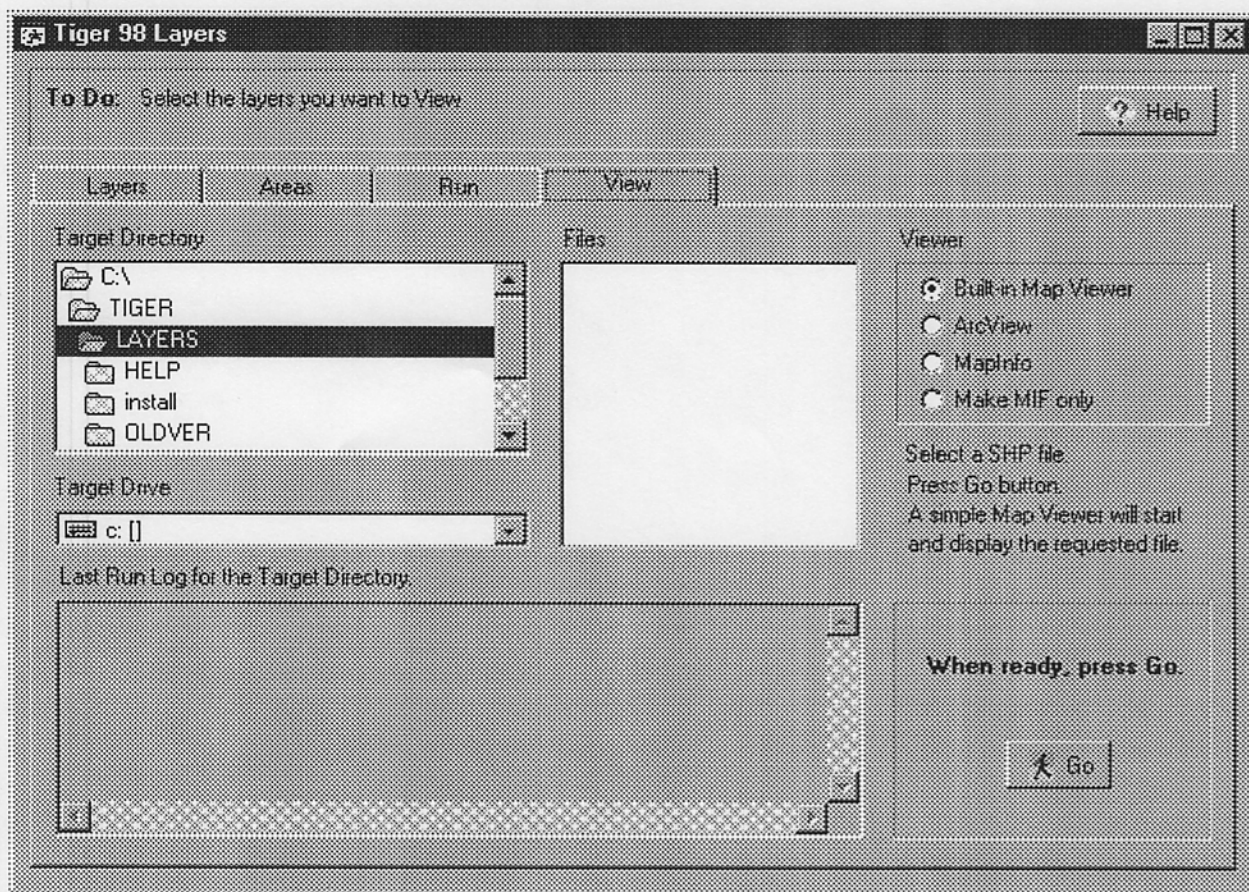
Files

Select the GIS system. Select some output (SHP) files. Consult Log to select SHP files with the layer suffices you are interested in. If you have chosen ArcView or MapInfo GIS, you can press the Ctrl key and click the mouse to select more than one file.

Using built-in Map Viewer

StreetCD provides a simple built-in Map Viewer that allows you to view a single SHP file. See Map Viewer Help for operation details.

Using ArcView

If you have ArcView 3.x installed on your machine, you can use it to view the output files directly from StreetCD. As soon as you click Go button, the StreetCD looks for an active ArcView application, starts it if necessary, and makes it display all selected files in a default View.

Using MapInfo

If you have MapInfo 4.x or higher installed on your machine, you can view files in this GIS. As soon as you click Go button, the StreetCD converts all selected files to the MID/MIF format, starts a new copy of MapInfo, and makes the MapInfo application import and display the files.

Generating MapInfo files

Use this option if you need only to convert selected SHP files to MapInfo's MID/MIF format. The MID/MIF files are generated in the same directory as SHP files.

4. Contacting GeoLytics, Inc.

GeoLytics makes itself accessible to the customer in various ways, with each medium playing a specific role. Our support e-mail address caters to those who have technical questions about the product or are seeking information about the data or how to use the product. Please, do not call the 800 number for tech support. Our technicians do not work in that department. The 800 number should only be used for sales purposes.

For more information on our support policies, please visit www.geolytics.com/support/supportpolicies.html.

Web Site:	**http://www.Geolytics.com**
E-Mail:	**support@Geolytics.com**
Sales & Customer Service:	**1-800-577-6717**
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