

## LandView<sup>®</sup> 6 Help Table of Contents

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Comments or questions may be sent to: [landview@geo.census.gov](mailto:landview@geo.census.gov)

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# Alternate LandView® Installations

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LandView 6 is published in two release formats- LandView 6 National DVD and LandView 6 (2-DVD set). The differences between these two releases are more fully described in the LandView 6 Help file, [The LandView 6 National DVD](#). Either release is suitable for installation on a hard drive of sufficient capacity on a work station or lap top. A caveat: *For the 2-DVD LandView set, only LandView East or LandView West can be installed on a local drive linking to the LandView application files.*

## Installing the LandView Data and Map sets on a Local Drive

The LandView installation program on the DVDs installs both the LandView database application and the MARPLOT® mapping application in the same default directory, `c:\lv6a`. LandView and MARPLOT are two independent applications that communicate with each other. Each has its own datasets, and each has its own protocol for accessing the data.

On the LandView Installation DVD is a directory called LV6. The entire contents of this directory need to be copied to `c:\lv6a`. (Do not copy the LV6 directory to `c:\lv6a`, only the contents of the directory.) This step makes the LandView data files accessible to the application.

On the installation DVD is a directory, MAPS, and a file, `marplot.vnx`. Both the directory and the file need to be copied to the root level of the C:\ drive as `c:\maps` and `c:\marplot.vnx`.

The `marplot.vnx` file provides instructions as to how MARPLOT finds its map files. As copied from the DVD, the file's instructions direct MARPLOT to the installation DVD (The 'Volume Name' of the LandView DVD is LV6). The first line of text within the file reads as, "LV6". To redirect MARPLOT to the relocated maps, the first line of text needs to be changed to identify the containing drive by **Drive Letter** as, for example, "C:".

## Copying Selected Maps to a Hard Drive

There are users of LandView installed on a laptop who do not want to unnecessarily carry the LandView DVD into the field and who are primarily concerned with topological map data. It is sufficient for them to have only the maps for a few select counties available on their laptop. For these users, all map copied directly to the `c:\lv6a` directory are immediately available to MARPLOT. County maps are referenced by FIPS Code-a five digit identifier where the first two digits identify a state and the last three digits identify specific counties within a state. On the installation DVD, county map sets are nested within a state-named subdirectory nested within a TIGER subdirectory nested within the MAPS directory.

Copying maps to the C:\ drive does not prevent using the DVD when the occasion demands. When

MARPLOT accesses the maps available on the DVD, it ignores those maps already available to it inside of *c:\lv6a*, and only opens the additional maps contained on the DVD.

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## Getting Started

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LandView Users who are comfortable with database and/or spreadsheet applications will have little trouble navigating the buttons and menus displayed in the LandView databases. However, they would be well advised to view two LandView Help documents that provide insights into FileMaker Pro® Runtime applications. These are: [The FileMaker Interface](#) and [Setup a Find-Searching LandView](#).

Users familiar with GIS (Geographic Information Systems) will find the MARPLOT mapping application to be simple and intuitive. LandView and MARPLOT, each stand alone applications, together constitute a GIS. The pathways from LandView to MARPLOT are detailed in [Go to Map/Show on Map](#). The pathways from MARPLOT to LandView are discussed in [MARPLOT Sharing Menu](#).

Other users are directed to the **LandView Tutorial**. The **Tutorial** button, available at the LandView Home page, provides access either to the Tutorial included as part of the LandView installation or to a possibly more recent version maintained on the LandView Web site.

Regardless of their level of experience, all users are encouraged to at least browse the tutorial which demonstrates some of the innovative features available in the LandView/MARPLOT applications.

Both the **Tutorial** and **LandView Help** files contain information on the interactions of LandView and MARPLOT. However, MARPLOT is a free-standing application and contains its own extensive Help files specific to the MARPLOT application.

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# LandView<sup>®</sup> and the Internet

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LandView is a fully functional stand-alone application, yet its functionality is significantly enhanced by integration with the Internet at each level of operation. This Help article identifies and comments on the functionality enhancement brought to LandView by the Internet.

## The LandView Home Page

The LandView application opens to its Home page. Besides providing navigation to its contained databases-Census 2000, the U.S. EPA's database of Regulated Facilities and the USGS's Geographic Names Information System, LandView Home provides pathways to its companion MARPLOT<sup>®</sup> mapping application, to two frequently used utilities and to the Internet.

The most obvious of these connections are the icons of the four federal agencies responsible for the LandView product-U.S. Environmental Protection Agency (EPA), U.S. Census Bureau, the National Oceanic and Atmospheric Administration (NOAA) and the U.S. Geological Survey (USGS). Each icon is an Internet connection to the Home page of the named agency providing pathways to all facets of the agency's operation. However, there is more . . .

## Metadata

Metadata is data about data. Most frequently, we accept data from a responsible source at face value. However, serious researchers need to document their findings-the time span over which the data is gathered, the conditions under which it was gathered, what is included, what is not included . . . This is metadata. [Metadata](#) for all agencies contributing data to LandView is maintained on at a Census Bureau Internet site and provides pathways to agency sites and to specific elements of the databases.

## LandView Help Files

LandView Help files are placed on each computer as part of LandView installation. However, Help is continually under review in response to user inquiry. While a look at Help, as installed, may adequately respond to a user concern, a more recently updated Help available on the Internet may lead the user to a similarly expressed concern by others. A key feature of On-Line Help is the heading User Notes. As users' concerns are addressed and the Help is modified, [User Notes](#) identifies the concern and the Help modification.

## The LandView Tutorial

Although the LandView Tutorial may not be as updated as frequently as the Help, it will be reviewed

periodically and modified as necessary. The updated Tutorial will then be posted to the Web.

## **The Census Bureau Database**

LandView 6 considerably amplifies the data available from Census 2000 as compared to LandView 5. LandView 5 contains the Census 2000 DP-1 table, data extracted from Census 2000 Summary File 1-the Census 2000 Profile of General Demographic Characteristics. LandView 6 includes not only the DP-1 tables but also the Tables DP-2 through DP-4-Social, Economic and Housing data taken from Census 2000 Summary File 3.

However, even this rich harvest of data may not satisfy all users' needs. The Web Link button available at each level of Census geography provides additional insights. Two new links are provided-first to a broad discussion of Census 2000 and to the American FactFinder and secondly to a topic-by-topic listing of specific census concerns.

## **The U.S. Environmental Protection Agency's Database**

Presented in the U.S. EPA's LandView database is basic information on each facility that is required to respond to EPA regulation. Here is presented minimum data-facility identifiers and identification of individual media programs under which the facility may be regulated. The Web Link button available at each individual record takes the user to EPA's EnviroFacts Warehouse-detailed records relating to a facility's reporting under each and all of the media programs under which the facility is regulated.

## **The Geographic Names Information System Database-the GNIS**

The GNIS provides a record for individual points of geographic points of interest as recorded by the USGS. The records provide locational information and, in some case, background historical information. However, identification of an entry provides an Internet pathway to an expanded range of Internet data . . .

First, the Web Link provides information on the USGS 7.5' quad sheet containing the entity. Following, though, are a number of additional Internet linkages providing geographic references.

The first linkage is to TopoZone.com, an Internet site of Maps a la Carte, Inc-a USGS Digital Cartographic Business Partner and a member of the International Map Trade Association. TopoZone may amplify data available from the USGS quad sheet.

A second linkage is to FIPS55 Data. FIPS, for Federal Information Processing Standards provides code identifiers for named populated places, state and county divisions and other locational entities of the United States.

A Digital Raster Graphic (DRG) linkage allows saving of the mapped location as a portion of the USGS Topographic map. Saved images are in the JPEG format. Many computer graphic programs can convert JPEG formats to BMP formats. A BMP format allows using the downloaded image as a base map in MARPLOT.



A Digital Orthophoto Quadrangle (DOQ) allows saving of the mapped location as an aerial photograph. The aerial photograph can be converted to a BMP format allows using the downloaded image as a base map in MARPLOT.

A Show Feature Location linkage connects to maps maps produced from the U.S. Census Bureau's TIGER Map Server.

A Find the Watershed linkage connects to a Watershed site maintained by the U.S. EPA.

## Shapefiles

Shapefiles are a public domain mapping format developed by Environmental Systems Research Institute, ESRI®. Shapefiles are an output format for ESRI mapping products and can exchange information with some commercial Geographic Information Systems (GIS). The Shape to MIE (shp2mie) utility downloaded as part of the LandView installation allows converting shapefiles to a MARPLOT import format. As such, the output of most GIS systems can be brought into MARPLOT and related to LandView/MARPLOT topological and population information.

A search for "shape file" or "shapefiles" in an on-line search engine, such as Yahoo, will bring many hits.

Federal agencies are another source for shapefile data. A search for "maps" and/or "shapefiles" in an agency's Home Page is usually productive. The LandView Help topic, [Unique Solutions](#), features a LandView/MARPLOT study on earthquakes based on USGS shapefile data.

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# MARPLOT®

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LandView® as a database management system-sometimes referred to as a DBMS and MARPLOT as a map viewer are two stand alone applications that communicate with each other. For one or more records 'found' in LandView, MARPLOT can display both their physical location and their location in relationship to other mapped objects such as roads, rivers or jurisdictional boundaries. Conversely, LandView will display the informational attributes associated with a found set of MARPLOT map objects. Thus, the physical location of an object becomes an important part of its informational data. This is the fundamental concept underlying a Geographic Information System, or GIS.

Pathways between the two applications are documented in the LandView Help files, [Go to Map/Show on Map](#) and [MARPLOT Sharing Menus](#). Additionally, MARPLOT has its own set of Help screens, available from the MARPLOT MenuBar. Power users of MARPLOT may wish to access the [MARPLOT Technical Documentation](#).

MARPLOT is a user-friendly application that has supported all previous versions of LandView and continues as the mapping application associated with LandView 6. Originally, MARPLOT was developed as part of the suite of programs associated with CAMEO®, an emergency planning and response software concerned with protecting the community from accidental chemical releases. These applications, [CAMEO®](#), MARPLOT and the [ALOHA](#) plume modeling program, are a joint work product of the National Oceanic and Atmospheric Administration (NOAA), the Environmental Protection Agency (USEPA) and the Census Bureau.

The LandView 5 release was supported by **MARPLOT Version 3.3**. A newer release, **MARPLOT 3.3.1**, supports LandView 6-this update addresses the manner in which LandView finds MARPLOT maps when a user selects one of several alternate LandView installation procedures. See both [Network Installation of LandView](#) and [Alternate Installation Procedures](#).

MARPLOT supports the creation of user-entered map data. Again, the user is referred to both the MARPLOT Help files and MARPLOT Technical Documentation. Included as part of LandView installation is a MARPLOT utility, [Shape to MIE](#) (shp2mie), which provides additional support to MARPLOT. Shp2mie creates **MARPLOT Import Files** from ESRI shapefiles. Most GIS data that can be converted to a shapefile can be imported into MARPLOT.

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# Network Installation of LandView®

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LandView 6 is published in two release formats- LandView 6 National DVD and LandView 6 (2-DVD set). The differences between these two releases are more fully described in the LandView 6 Help file, [The LandView 6 National DVD](#). Either release is suitable for network installation. There are two approaches to network installation: installation under control of a Network Administrator or installation by a user with read-write privileges on a LAN drive.

LandView 6 is a runtime version of a data management application program, FileMaker® Pro. As an application installed on a LAN, LandView is single user. However, the LandView application can be independently installed on multiple work stations, and each work station can access the data files stored appropriately on a LAN server.

Depending upon programatic need and available drive capacity, installation can be from either a single disc (either LandView East or LandView West) of the 2-DVD LandView 6 or the LandView program as contained on the LandView 6 National DVD. A complete installation of the full national dataset requires approximately 12 GB of drive capacity.

As installed on a network, the LandView dataset must be at the root level of an available LAN drive. The dataset consists of two directories, an LV6 directory and a MAPS directory, and a free-standing file, *marplot.vnx*. Each is copied directly from the appropriate LandView 6 DVD.

## LandView Installation by the Network Administrator

The *marplot.vnx* file provides instructions as to how MARPLOT® finds its map files. As copied from the DVD, the file's instructions direct MARPLOT to the installation DVD [1](#). The first line of text within the file reads as, "LV6". To redirect MARPLOT to the relocated maps, the first line of text needs to be changed to identify the containing drive by **Drive Letter** as, for example, "**X:**".

An Install [2](#) directory on the DVD can be either copied into the LV6 directory, with appropriate instructions to potential end-users for installation on work stations, or maintained by IM personnel for direct installation as required.

As described more fully in the Help file referenced above, the LandView 6 National DVD does not come with the TIGER/Line® topological map layers of roads, railroads, rivers, etc. A complete LandView installation requires obtaining these files from a secondary source, and there are two-the 2-DVD release of LandView 5 or the 2-DVD release of LandView 6. Each of these DVDs is setup similarly to the above with either an LV5 or an LV6 directory, a MAPS directory and a *marplot.vnx* file. As on the National DVD, the MAPS directory on each contains federal agency related sub-directories-CENSUS, EPA,

USGNIS and FEDLANDS. These directories are included in the MAPS directory on the National release and are not to be overwritten. A fifth directory, TIGER, contains topological map layers appropriate to either LandView East or LandView West. The TIGER directory from either DVD needs to be copied to the MAPS directory copied from the National DVD. TIGER contains sub-directories for individual States. The contents of TIGER from the second DVD need to be copied into the TIGER now on the LAN server. Five States-Minnesota, Iowa, Missouri, Arkansas and Louisiana-are common to the TIGER directory on each DVD.

The LandView file sets are voluminous; some data searches can be time consuming. If it becomes apparent that indexing of files is desirable, consult the Help file, [Indexing LandView Files](#).

## LandView 6 Installation to a Mapped Drive

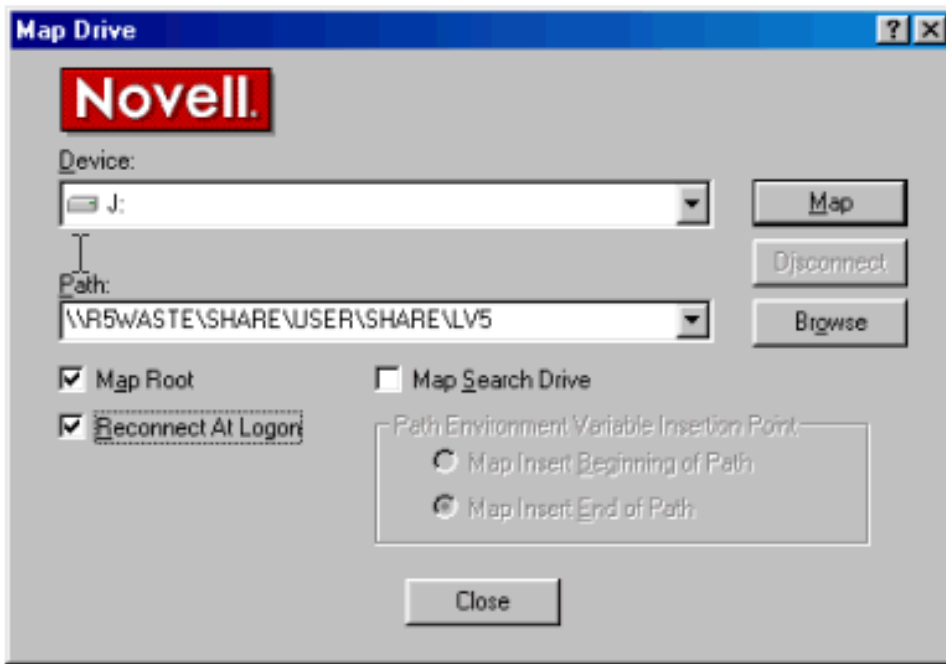
If a LandView user has read-write privileges to a sub-directory on a LAN server of sufficient capacity, it is possible to create a new sub-directory, a suggested name-**LV6 Data**, and to use this directory as a container for the LandView data and map directories and the *marplot.vnx* file. This one time installation allows all LAN users who can Map to this directory as an available LAN drive to access these files. *The original installer, in essence, assumes the role of LAN Administrator and is responsible for providing the installation procedure and instructions to additional users.*

The **Map to a Directory** procedure may vary somewhat between Network systems, but the following approach is representative. Installation is as follows:

1. Create a **LV6 Data** directory, as above. Right-mouse on the directory. The right-mouse menu is shown below.



2. Select the Network Drive . . . option to open a new dialogue:



3. By default, the first available drive letter is shown, but users may select another available drive letter. It is important that the two identified options above-**Map Root** and **Reconnect At Logon** be checked.

4. From an appropriate DVD, copy the two Directories, LV6 and MAPS, and the *marplot.vnx* file to **LV6 Data**. Additionally, if other users are to access these data and map files, the Install directory should also be copied to LV6 Data.
5. As for an installation under the control of a Network Administrator, the *marplot.vnx* file needs to be redirected to the drive letter identifying the mapped drive.

## For Each New User

1. The LandView application files need to be installed on each workstation in the default directory, *c:\lv6a*. This may be from an automatic download of the application by IM support or by direct installation by the end user from a LAN available installation directory. The installation places a LandView shortcut icon on the Desktop, which opens the LandView application.
2. If LandView datasets are installed on a mapped drive, each new user needs to follow the above procedure for mapping to a drive, with the exception of steps 4. and 5. Only the drive letter selected by the original installer can be use by secondary installers. If this drive letter is not available to the user, the data files can not be accessed by the LandView application.

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<sup>1</sup> The 'Volume Name' of the LandView DVD is LV6.

<sup>2</sup> The Install directory contains both Macintosh and PC install programs. Only the appropriate program should remain.

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# Positional Accuracy of TIGER/Line® Data

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The TIGER® data base was created originally to support the 1990 Census and has been updated periodically and used to support the ongoing data collection and publication work of the Census Bureau. The TIGER/Line files are the extract of the TIGER data base that is made available to the public.

During the initial creation of the Census TIGER data base in the late 1980s the principal sources of information used were the U.S. Geological Survey (USGS) 1:100,000-scale Digital Line Graphs (DLG), USGS 1:24,000-scale quadrangles, the U.S. Census Bureau's 1980 geographic base files (GBF/DIME-Files), and a variety of miscellaneous maps and aerial photographs. The DLG coverage was extensive, albeit of variable currency, and comprised most of the rural, small city, and suburban area of the TIGER data base. According to the USGS, the positional accuracy of features the DLG files is within about 200 feet of their correct position on the earth. The GBF/DIME-File coverage areas were updated through 1987 with the manual translation of features from the most recent aerial photography available to the U.S. Census Bureau.

In order to update the geographic data base from which to extract the TIGER/Line files, the Census Bureau uses various internal and external procedures to add new features (roads, boundaries, etc.) Many updates come from the geographic staff in each of the Census Bureau's 12 regional offices who work with local sources to identify new features. In recent years the Census Bureau has obtained digital files from the private sector and local officials. In the years preceding 2000 many updates came from map annotations made by enumerators preparing for the Census as they attempted to locate living quarters by traversing every street feature in their assignment area. Due to resource constraints the enumerator updates were digitized directly into the Census TIGER data base without geodetic controls or the use of aerial photography to confirm the features' locational accuracy. The Census Bureau also made other corrections and updates to the Census TIGER data base supplied by local participants in various U.S. Census Bureau programs. These local updates originated from map reviews by local government officials or their liaisons and local participants in Census Bureau programs. Maps were sent to participants for use in various census programs, and some maps were returned with update annotations and corrections. The Census Bureau generally added the updates without extensive checks. Changes made by local officials do not have geodetic control.

While it has made a reasonable and systematic attempt to gather the most recent information available about the features this file portrays, the Census Bureau cautions users that the files are no more complete than the source documents used in their compilation, the vintage of those source documents, and the translation of the information on those source documents. The Census Bureau is currently in the early stages of developing a system to significantly improve the coordinate accuracy of features in the TIGER data base and to devise a more effective approach to updating features. For more information on these plans visit the [MAF/TIGER Modernization](#) portion of the Census Web site.

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# System Requirements

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## LandView® 6 Minimum System Configuration

**Note:** *LandView 6 has certain functions such as accessing the EPA online Envirofacts database that require Internet access and the availability of an Internet Browser. If you choose to install and run this program on a computer lacking an Internet connection and browser, these functions won't be available.*

Requires Adobe Acrobat® Reader Version 4.0 or later. Available for **free** from [Adobe's Web site](#).

## The minimum system configuration required for PCs:

### *Hardware Requirements:*

- Intel-compatible computer Pentium II 90 MHz or higher
- DVD-ROM drive (national file) /CD-ROM drive (for state custom disc)
- Hard disk drive with 20MB of free hard disk space
- Screen resolution of 1024 x 768 or higher recommended

### *Operating System:*

- Windows 98, Me, NT 4.0 (Service Pack 6), Windows 2000, Windows XP

## The minimum system configuration required for the Macintosh®:

### *Hardware Requirements:*

- DVD-ROM drive (national file) /CD-ROM drive (for state custom disc)
- Hard disk drive with 20MB of free hard disk space
- Screen resolution of 1024 x 768 or higher recommended

### *Operating System:*

- Mac OS version 8.6 through 9.2.2, Mac OS X 10.1

## Uninstalling LandView

For those users with a PC you can uninstall the program using the **Add/Remove** function in the Control Panel. To access the Control Panel click on Start\Settings\Control Panel. Once in the Control Panel choose the **Add/Remove** icon, then proceed with uninstalling as instructed by the program.

However, in order to make sure that LandView is completely uninstalled the user also needs to delete the \lv6a folder from the drive it was installed on.

### *Macintosh® Users*

For those users with a Macintosh, you may remove the program by simply deleting the lv6a folder from the drive on which it was installed.

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## The FileMaker® Interface

The purpose of this section of the help is to provide an introduction to the FileMaker interface. We have highlighted many of the key features that you will come across in the LandView® 6 program.

### Status Bar Icons

On the left-hand bottom of the screen you will find a button that says **Browse** with a prompt arrow as well as four different icons (Figure 1).

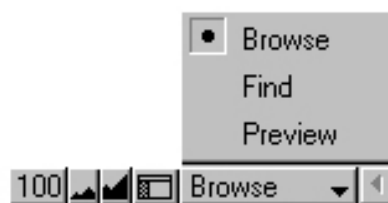




Figure 1

The farthest icon on the left is the Zoom percentage box , which shows the current magnification.

The next two buttons over are the Zoom in and Zoom out features. The Zoom in icon  allows you to shrink your view while the Zoom out icon  allows you to magnify your view. You will notice as you use these features that the Zoom percentage box will increase or decrease.

The fourth icon from the left is the Hide/Show icon . This allows the user to hide or show the status area on the left-hand side of the page.

### Mode Pop-up Box

The Mode pop-up box (Figure 1) can be accessed by clicking on the pop-up button that says **Browse** at the lower left-hand area of the screen. You can move from one mode to another by clicking on the mode you are interested in.

The **Browse** mode (Figure 1) is the default in the FileMaker interface. This is the mode that will be used the majority of the time if you are working with an existing database. Browse allows the user to view, sort, and omit records.

**Preview** mode (Figure 1) allows the user to view their document before [printing](#).

The **Find** mode (Figure 2) is useful for finding individual records or groups of records in a database. The user can search for records by inputting text or mathematical values, using the **Symbols** prompt arrow.

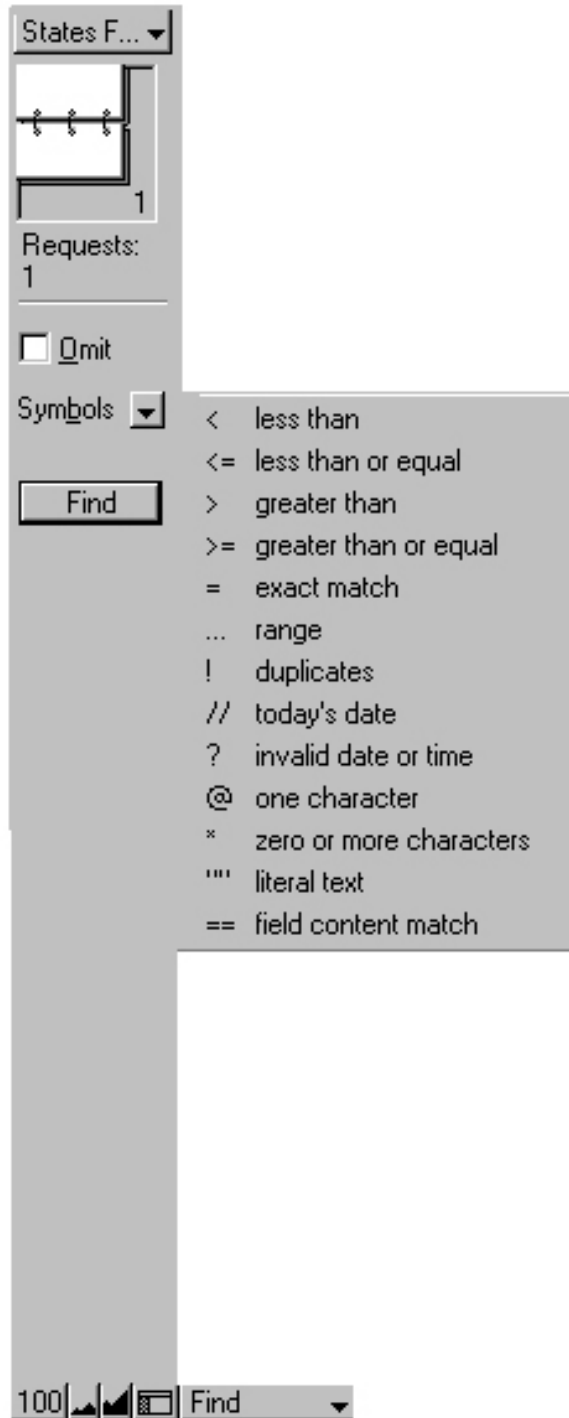


Figure 2

## Mode Status Area



The Flipbook icon lets the user flip forwards or backwards through a database by clicking on

the top page or the bottom page. To move more quickly through a database, drag the **Record Bookmark** up or down (Figure 3).

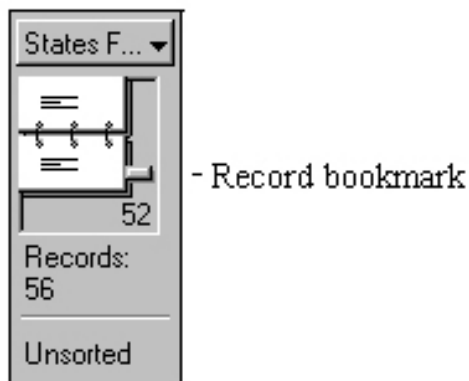


Figure 3

The **Layout mode** on top of the Flipbook (Figure 4) will allow you to choose which view you would like to see the records in. For example, in the census database records may be viewed in **Entire Demographic Profile** view and **List View**. The Entire Demographic Profile View allows you to look at the entire demographic profile and see the statistics for one geography while List View shows a list of records for a particular geography. For example if you wanted to look at the **Places** in Delaware in entire demographic profile view it would show the place that comes first alphabetically. In list view it would list all places in Delaware.

If you are interested in looking at a record in List View, there is also a button labeled [View as List](#) which can be found on various census geography screens in the census database and screens throughout the Environmental Protection Agency (EPA) and U.S. Geological Survey (USGS) databases.

The layout modes for EPA and USGS will look slightly different as they have their own set of data screens.

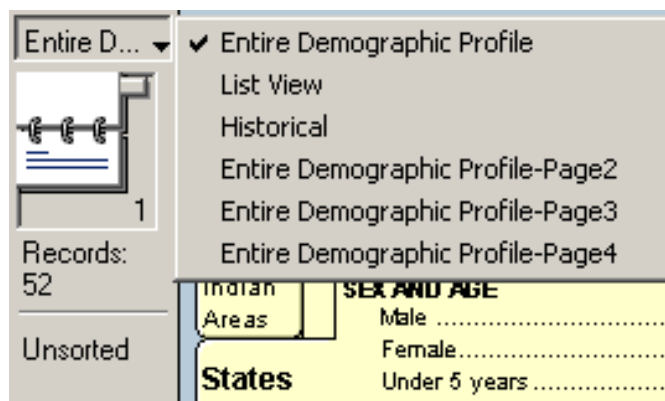


Figure 4

In the **Mode Status Area** you will find the word **Records**. This will let you know the total number of records or the current record you are on if you are searching through a database. If you have performed a [Find](#), under Records will be the word **Found**. This will let you know how many records were found as a

result of your query.

The **Sort** command can be found under the **Records** menu in LandView. The Sort command allows you to change the order in which you browse or print records. Depending on whether you have sorted any records, the Status Area will either say **Sorted** or **Unsorted** (Figure 4).



The **Home** button is located on screens throughout the LandView program. Pressing this button will take you out of the current screen you are in and send you to the **LandView Startup** menu.

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# The LandView<sup>®</sup> 6 National DVD

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## LandView 6 Formats

LandView 6 is published in two release formats- LandView 6 National DVD and LandView 6 (2-DVD set). The differences between these two releases are as follows:

The **LandView 6 National DVD** contains the complete LandView datasets for 50 States, the District of Columbia and Puerto Rico. This version of LandView is designed for users that have sufficient capacity either on a LAN Drive or on a local drive of sufficient capacity to contain the necessary data and map files. For the National dataset, this is in the order of 12 GB. While the National DVD contains MARPLOT<sup>®</sup> map files specific to the data files contained in LandView, it does not contain TIGER/Line<sup>®</sup> map layers-those files providing topological data such as roads, rivers, railroads, etc. These files must be independently obtained, as described below.

The **LandView 6 DVD** set is designed primarily for users intending to access the LandView data and map sets from a DVD drive on a workstation or laptop. LandView East contains *complete data and map sets* for all States east of the Mississippi while LandView West contains similar data for all States west of the Mississippi. The States of Minnesota, Iowa, Missouri, Arkansas and Louisiana are common to both DVDs.

With the advent of multi-gigabyte drives on servers, workstations and laptops, either of the above LandView formats is suitable for installation to a local drive of sufficient capacity.

A LandView Help file, [Network Installation of LandView](#), provides instructions for either of the above formats on LAN servers.

A LandView Help file, [Alternate LandView Installations](#), provides instructions for installing either of the above formats on a work station or laptop.

## Obtaining and Installing Map Files for LandView 6 National DVD

In LandView 6, agency MARPLOT map files that link to LandView datasets have been revised to conform to the updated data files. These are contained in a MAPS directory on the LandView 6 National DVD release.

The TIGER/Line 2000 topological map layers in use with LandView 5 are exactly the same as those required in LandView 6. In LandView 5 as in LandView 6, only the 2-DVD release contained TIGER/Line map layers. For a complete installation of the National LandView 6 application, including



topological map layers, it is necessary to obtain a copy of either the LandView 5 or the LandView 6 2-DVD release. The two Help files referenced above provide detailed installation instructions.

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# The Shape File Import Utility

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Included as part of the LandView® installation is a LandView utility, Shape to MIE or, more simply, **SHP2MIE**. The utility's executable file is found in the default installation directory `c:\lv6\shp2mie.exe` for LandView 6. SHP2MIE provides a pathway for bringing information from other Geographic Information System (GIS) products into MARPLOT®.

Shapefiles are a public domain data format created by the Environmental Systems Research Institute, ESRI®, and are used in a wide variety of GIS software programs to represent a set of geographic features such as streets, places, metropolitan areas, and tract boundaries. Each shapefile, *name.shp*, represents an associated set of map objects of a similar type—point, line, or area. With each shapefile is a similarly named data file, *name.dbf*, which contains information attributes linked to each map object. Shapefiles are a standard file format for transferring such information between GIS mapping software programs.

The **MARPLOT Import/Export (MIE) format** is the standard file format for importing and/or exporting MARPLOT information. An MIE file is a text file which completely describes the contained map objects in a format understood by MARPLOT. On import, each map object specified in the file is added to an identified map layer and map. If the objects in the file are from layers and/or maps that are not currently available in MARPLOT, the layers and/or maps are created. Maps created as part of the import process are stored in the same folder (directory) as the MARPLOT application itself. For more details about MARPLOT Import/Export, see **MARPLOT Help**.

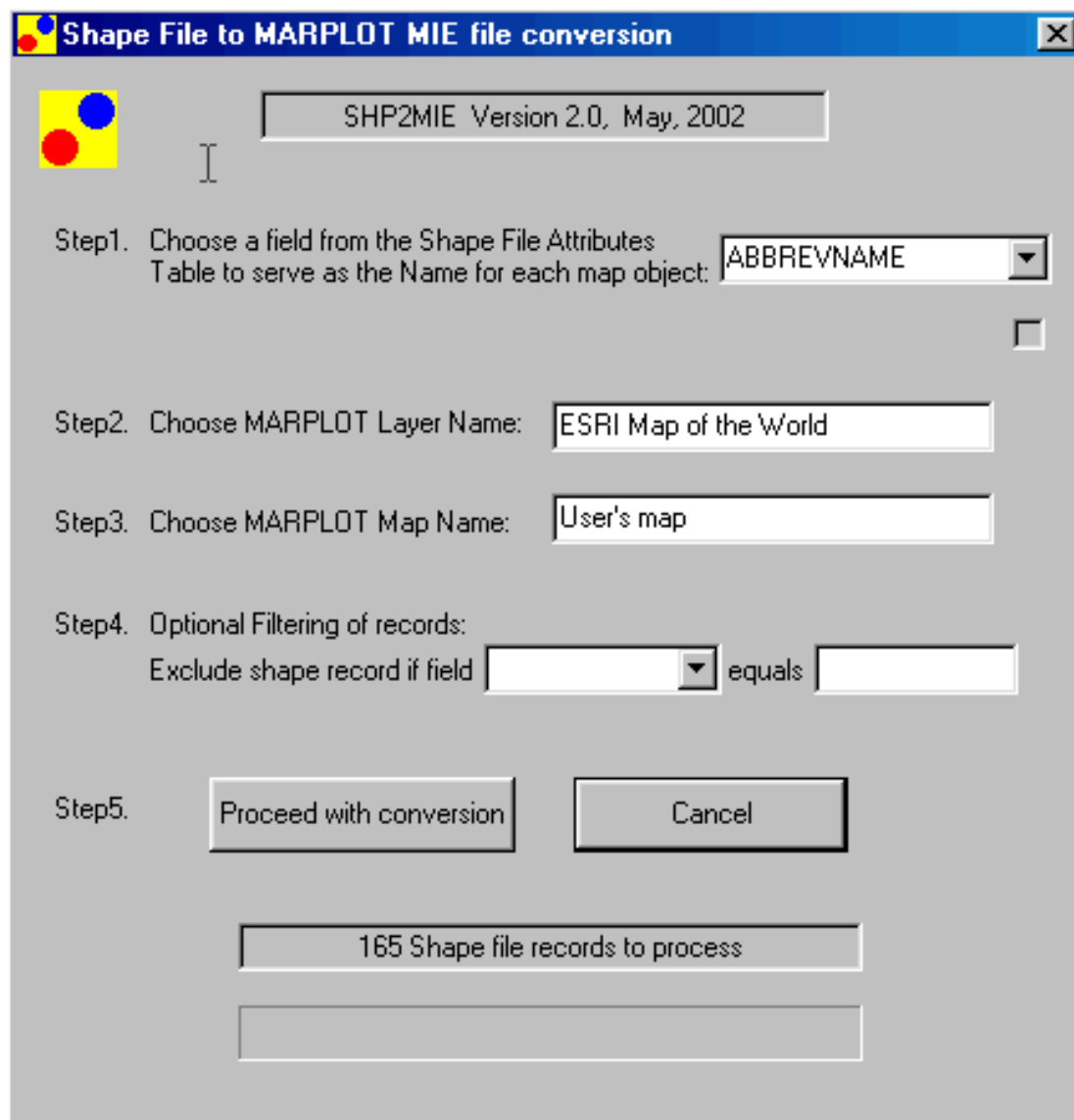
The SHP2MIE program can read shapefiles that are unprojected (a *Geographic* projection, in ArcView terms) or that are projected in either UTM or Albers. Start SHP2MIE by locating and opening the *shp2mie.exe* executable file. A dialog box requests that you point to the folder and identify the shapefile you wish to translate <sup>1</sup>. After selecting the file, click the open button. The **Shape File to MARPLOT MIE** file conversion dialog box is shown at the end of this article.

First, choose a field from the shapefile attributes table to serve as a name for each map object. The attribute table represents field names in the file, *name.dbf*. To avoid confusion, you should try to select a field that provides a unique name for each map object. To this end, you may wish to examine the DBF file in any application that will display its contents.

Next, enter names for the MARPLOT layer that will contain the file's map objects and for its associated MARPLOT map. The default MARPLOT map name is **User's Map**. This map was automatically created when you installed LandView, and there is no need to change this default setting. If you wish to translate only selected map objects from the shapefile, you should select the controlling field using the scroll bar in the **Filtering** field and the value that will serve as a filter.

If the selected shapefile contains projected map data, you will be so advised, and it will be necessary to

provide additional projection related information in the dialogue. For further information on projections, see an appropriate GIS reference.



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<sup>1</sup> If the shapefile is contained on locked media, such as a CD, it is necessary to copy both the SHP and DBF files to an addressable drive. SHP2MIE, by default, creates the associated MARPLOT import file, name.mie, in the directory containing the shapefile.

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## User Notes

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These integrated Help files will be updated in response to comments from users. While, in many cases, **Help** as contained in the LandView release versions will satisfy a user's needs, users are encouraged to check **LandView On-Line Help**, for revisions as documented below.

### User Notes:

1. Users may find slight differences in the Occupants Per Room calculations between the Demographic Profile and Summary File 3, Summary File 4, and LandView 6. "Occupants per room" is obtained by dividing the number of people in each occupied housing unit by the number of rooms in the unit. The Summary File 3 products correctly used a topcode value of "10 rooms" for those occupied housing units with "9 or more rooms." In the Demographic Profiles, an incorrect topcode value of "9 rooms" was used.
2. **DP-2 User Note for Exporting Data for Puerto Rico**  
Please note that if you perform a query using the DP-2 table and wish to export the records, you should export the records for the 50 states and Washington D.C. separately from Puerto Rico. The DP-2 table for Puerto Rico contains different fields under "Residence in 1995" and "Nativity and Place of Birth" than the DP-2 table for the states.

### Revision History:

No revisions at time of initial publication of LandView 6.

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## What's New in LandView® 6?

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### The prime differences between LandView 5 and 6 are:

1. Expansion of Census 2000 data to include the entire Demographic Profile (Tables (DP1-DP4) ).
2. Replacement of the 106th Congressional data with data for the 108th Congress. In addition, a new map layer will show the 108th Congressional Districts. (The 106th Congressional District map layer will still be included in the MARPLOT® map for reference.)
3. Creation of Demographic Profile data for urban areas and urban clusters.
4. Expansion of the Population Estimator to work with the Demographic Profile data at the block group level.
5. Updated versions of the U.S. Geological Survey's (USGS) Geographic Names Information System (GNIS) and the Environmental Protection Agency's (EPA) Envirofacts data warehouse.

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# Census Databases

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## ● **Interested in Metadata about LandView Census 2000 components?**

The following Census Bureau data are presented in LandView®6:

1. Census 2000 demographic data.
2. Historical population and housing unit counts for states and counties.
3. MARPLOT® Census demographic layer grouping- represents the generalized and detailed boundary files used to display Census 2000 statistical and legal entities.
4. MARPLOT Census 2000 TIGER/Line® layers grouping- Census 2000 TIGER/Line data used to display roads, railroads, shoreline, water and other features.

## Census 2000 Population and Housing Data

The Census 2000 data in LandView 6 are based on the data tables presented in the Census 2000 Demographic Profiles. Statistical table DP-1 contains selected data items plus calculated statistics derived from the 1,040 statistical tables contained in Census 2000 Summary File 1 file (SF 1). Statistical tables DP-2 through DP-4 contains selected data items plus calculated statistics derived from the 813 statistical tables contained in Census 2000 Summary File 3 file (SF 3).

Data are presented for the 50 states, the District of Columbia and Puerto Rico. The data presentation for all geographic levels except census blocks are based on the Census 2000 Demographic Profiles. [About the Profile](#) [PDF] provides an explanation of the data table content and derived measures.

The LandView product provides demographic profiles (excepting census blocks) for additional geographic levels not presented in the Census 2000 Demographic Profile product (i.e. census tracts, census block groups and ZCTAs). The census block statistics were created from selected data items contained in the Census 2000 Summary File 1 (SF1).

The SF1 files include statistical data on the following population and housing items based on a limited set of questions asked of every person and housing unit in the United States. These items are: age, race, sex, Hispanic or Latino origin, household relationship, and household and family characteristics. Housing items include occupancy status and tenure (whether the unit is owner- or renter-occupied).

Summary File 3 (SF 3) contains the sample data, which is the information compiled from the questions asked of a sample of all people and housing units. Population items include basic population totals; urban and rural; households and families; marital status; grandparents as caregivers; language and ability to speak English; ancestry; place of birth, citizenship status, and year of entry; migration; place of work;

journey to work (commuting); school enrollment and educational attainment; veteran status; disability; employment status; industry, occupation, and class of worker; income; and poverty status. Housing items include basic housing totals; urban and rural; number of rooms; number of bedrooms; year moved into unit; household size and occupants per room; units in structure; year structure built; heating fuel; telephone service; plumbing and kitchen facilities; vehicles available; value of home; monthly rent; and shelter costs.

For more information about these files go to [Your Gateway to Census 2000](#).

## Historical Population and Housing Unit Counts for States and Counties

The 1970, 1980, 1990 population and housing unit counts were derived from the Census USA Counties 1998 CD-ROM. These data are available only for the 50 states and the District of Columbia. Please refer to the [Guide to the USA Counties CD-ROM](#)[PDF] for more technical information regarding the quality and source of these data.

Please note that the 1970-1990 population figures are revised. The 1970-1980 housing units are revised; the 1990 housing unit counts are not. The following briefly explains how the population figures are revised. The April 1 census population is a count of the number of persons residing in an area (resident population) as reported in the census of population, or as subsequently revised through the annual population estimates. Revisions to an area's census population count may occur as the result of (1) post-census corrections of political boundaries, geographic misallocations, or documented under enumerations or over enumerations, and (2) geographic boundary updates made after the census, resulting from annexations, deannexations, new incorporations, governmental mergers, and so forth. The closing date to include these two forms of revisions for 1990 in this set of estimates was December 1996.

The counties and equivalent areas shown are defined as of January 1, 1992. Because the county boundaries and Census 2000 data shown in LandView 5 are defined as of January 1, 2000, counties that were defined after January 1, 1992 will not have historical data. Consequently, historical data will not be shown for the Skagway-Hoonah-Angoon Census Area (02232) and Yakutat City and Borough (02282). A supplemental source of information on county boundary changes can be found at the [Changes to Counties and County Equivalent Entities: 1970-Present](#) Web site.

We are presenting these data to give LandView users a sense of population growth for these areas. However, some dramatic population changes in states such as Alaska and Virginia may be attributed to geographic boundary updates between censuses involving annexations, deannexations, new incorporations, governmental mergers and so forth. Users should refer to the footnotes in the USA Counties 1998 CD-ROM for further details.

Additional historical census information may be obtained from the [Population of Counties by Decennial Census: 1900 to 1990](#) Web site or the [Population Division](#) Web site.

## MARPLOT® Census Demographic Layer Grouping



This layer grouping displays the following legal and statistical entities:

1. urbanized areas/urban clusters,
2. states,
3. state portions of Indian Areas,
4. state portions of ZIP Code Tabulation Areas (ZCTAs),
5. 106th and 108th Congressional Districts,
6. places,
7. consolidated cities,
8. counties,
9. minor civil divisions (MCDs in 20 states only),
10. census tracts, census block groups, and selected census block points.

### ***Special Note Regarding Urbanized Areas and Urban Clusters***

The MARPLOT "Urban Areas" layers shows detailed boundaries of urbanized areas and urban clusters as defined in the Federal Register / Vol. 67, No. 84 / Wednesday, May 1, 2002 / Notice. The May 1 boundaries will agree with the Census 2000 SF3 urban/rural tabulations and do not reflect subsequent corrections to the May 1, 2002 Notice.

For further information regarding the corrections and to obtain corrected boundary files see the [Census 2000 Urban and Rural Classification](#) site.

### ***Special Note Regarding Minor Civil Divisions***

The U.S. Census Bureau recognizes MCDs in 28 states. LandView, however, provides data for 20 states and Puerto Rico. The states are: Connecticut, Illinois, Indiana, Iowa, Kansas, Maine, Massachusetts, Michigan, Minnesota, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Vermont, and Wisconsin.

### ***Special Note Regarding Census Block Points***

To conserve disc space and speed the display of the census block points layer, census block points containing zero population and zero housing units are excluded from the census blocks database and the associated map layer. Consequently, only two thirds of the census block points (i.e. 5,471,376 out of 8,262,363) are shown.

## **Understanding Generalized and Detailed Boundaries**

Both generalized and detailed boundary files were used to create the individual layers presented in the Census Demographic Layer grouping of MARPLOT®.

The boundary files used in the Indian Areas, (American Indian/Hawaiian Home Land), Urban Areas, Congressional Districts (106th and 108th), places, consolidated cities, census tracts, census block groups,

and ZIP Code<sup>®</sup>Tabulation Areas (ZCTAs) layers were neither generalized nor clipped to the shoreline. Consequently, they provide the greatest coordinate resolution describing shapes with the same resolution as the TIGER file and do extend into large bodies of water.

The boundary files used in the state, county, and minor civil divisions layers are generalized which means that the number of lines making up the perimeter of those polygons are reduced, and the polygon shapes are simplified. Generalized files were used for these geographic layers because these files were clipped against the same generalized representation of the United States coastline, and they retain coincidence for boundaries shared between these layers (e.g. counties nest within state). Another benefit of the generalization process is that it reduces the size of the map files and speeds their display.

In comparing two layers sharing a common boundary where one is generalized and the other is detailed, there will be discrepancies. The layer that is not generalized depicts the actual boundary as stored in the TIGER/Line files. For example, the census tract boundaries are not generalized and they nest within county. Consequently, they depict the actual county boundaries in those situations where the census tract boundary coincides with the county boundary.

The generalized files are available along with further technical details and metadata from the Geography Division [Cartographic Boundary File](#) site. The detailed files are not available to the public. Since these files are derived from Census 2000 TIGER/Line, see the discussion below regarding Census 2000 TIGER/Line technical characteristics.

## Consolidated Cities and Places

We present maps and data for consolidated cities and places in separate layers.

For Census 2000, there are seven consolidated cities:

Milford city, CT  
Athens-Clarke County, GA  
Augusta-Richmond County, GA  
Columbus city, GA  
Indianapolis city, IN  
Butte-Silver Bow, MT  
Nashville-Davidson, TN

A consolidated city is a consolidated government for which the functions of an incorporated place and its county or minor civil division (MCD) have merged. The legal aspects of this action may result in both the primary incorporated place and the county or MCD continuing to exist as legal entities, even though the county or MCD performs few or no governmental functions and has few or no elected officials. Where this occurs, and where one or more other incorporated places in the county or MCD continue to function as separate governments, even though they have been included in the consolidated government, the primary incorporated place is referred to as an consolidated city.

The data for the consolidated city includes the data for all places that are part of and within the

consolidated city. The "consolidated city (balance)" entries are shown in the places layer and show data for the portion of the consolidated government minus the separately incorporated places within the consolidated city. Note that for data presentation purposes these "balance" entities are treated as statistically equivalent to a place; they have no legal basis or function.


For further information regarding Census 2000 geographic terms and concepts please see [Appendix A. Census 2000 Geographic Terms and Concepts](#) [PDF]. The relationship between various legal and statistical entities is shown in the [LandView 6 Geographic Hierarchy](#) diagram.

## MARPLOT Census 2000 TIGER/Line® Layers Grouping

The Census 2000 TIGER/Line files were processed to create the individual layers (i.e. roads, railroads, shoreline, water and other features) as shown in the Census 2000 TIGER/Line group layer of MARPLOT. The TIGER/Line files are digital databases of geographic features, such as roads, railroads, rivers, lakes, political boundaries, census statistical boundaries, etc. covering the entire United States. The data base contains information about these features such as their location in latitude and longitude, the name, the type of feature, address ranges for most streets, the geographic relationship to other features, and other related information. They are the public product created from the Census Bureau's TIGER (Topologically Integrated Geographic Encoding and Referencing) database of geographic information. The TIGER data base was developed at the Census Bureau to support the mapping and related geographic activities required by the decennial census and sample survey programs. For further details see the Census 2000 TIGER/Line [technical documentation](#)[PDF].

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## The EPA Database

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### ● [Interested in Metadata?](#)

The Environmental Protection Agency's (EPA) database in LandView<sup>®6</sup> contains some of the data available from the Envirofacts Warehouse. The [Envirofacts Warehouse](#) was created so that EPA data could be easily accessible to the public. LandView 6 contains extracts from the following Envirofacts Warehouse databases: AIRS/AFS (air emission facilities), RCRAInfo (hazardous waste handlers), CERCLIS (Superfund sites), TRI (Toxic Release Inventory), and PCS- Permit Compliance System (water discharge permits).

The data was extracted from Envirofacts in July, 2003.

Any facility or site with an entry in the Locational Reference Table LRT\_BEST\_COORDINATE, and is in one of the five system areas indicated above, is included in the LandView database.

For questions on EPA data please see the [Envirofacts Web site](#).

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## USGS Databases

● **Interested in Metadata?** [Geographic Names Information System \(GNIS\)](#) [National Atlas](#)

Data for the U.S. Geological Survey (USGS) database came from the [Geographic Names Information System \(GNIS\)](#) and the [National Atlas](#) of the United States®.

### Geographic Names Information System (GNIS) Features

The GNIS contains the official federally recognized geographic names for all known places, features, and areas in the United States that are identified by a proper name. Each feature is located by State, county, and geographic coordinates; and referenced to the appropriate 1:24,000-scale U.S. Geological Survey (USGS) topographic map in which it is shown. The feature class terms and abbreviations currently consist of nine or fewer letters and were chosen for computer search and retrieval purposes. They do not necessarily represent terminology for the identification of all kinds of cultural and natural features. Please refer to [APPENDIX C](#) to view the Geographic Names Information System (GNIS) feature class definitions.

### Selected Federal Lands from the USGS National Atlas

Selected Federal Lands were taken from the USGS National Atlas of the United States. The National Atlas is intended to provide a comprehensive, map-like view into the enormous wealth of data collected by the Federal Government. Information on the Federal Lands included in LandView® 6 as well as metadata can be found on the [National Atlas](#) site.

**Note: Only those GNIS records with actual latitude/longitude coordinates have been included in LandView 6. Those records without spatial coordinates (less than 3 percent of the total GNIS database) can still be found on the [GNIS Web site](#).**

Individual Feature Layers				
Airports	Cemeteries	Churches	Hospitals	Populated Places
Schools				

Land Features				
Arch	Bench	Flat	Levee	Slope
Area	Bend	Gap	Pillar	Summit

Bar	Cape	Island	Plain	Valley
Basin	Cliff	Isthmus	Range	Woods
Beach	Crater	Lava	Ridge	

Man-Made Features				
Building	Dam	Locale	Mine	Oilfield
Tower	Well			

Miscellaneous Features				
Civil	Forest	Military (historical only)	Other	Park
Post Office	Reserve			

Transportation Features				
Bridge	Crossing	Trail	Tunnel	

Water Features				
Arroyo	Falls	Gut	Rapids	Spring
Bay	Geyser	Harbor	Reservoir	Stream
Canal	Glacier	Lake	Sea	Swamp
Channel				

For questions or comments regarding the Geographic Information Names System (GNIS) contact:  
[gnis\\_manager@usgs.gov](mailto:gnis_manager@usgs.gov)

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# Metadata

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## U.S. Census Bureau

### ● **Census 2000 Demographic Data**

These data were prepared from the Summary File (SF1) and Summary File 3 (SF3) state files. The [SF1 Technical Documentation](#) [PDF], the [SF3 Technical Documentation](#) [PDF], and the [Demographic Profiles](#) document the quality and source of the data.

### ● **Historical population and housing unit counts for states and counties**

The 1970, 1980, 1990 population and housing unit counts were derived from the Census USA Counties 1998 CD-ROM. Please refer to the [Guide to the USA Counties CD-ROM](#) [PDF] for further technical information regarding the quality and source of these data.

### ● **MARPLOT® Census Demographic Layer Grouping**

The state, county, and minor civil divisions layers in the Census Demographic Layer grouping of MARPLOT were created from generalized boundary files. They are available along with metadata from [Cartographic Boundary Files](#).

The Indian Areas, Urban Areas, Congressional Districts (106th), places, census tracts, census block groups, and ZIP Code Tabulation Areas (ZCTAs) layers were created from the Census 2000 TIGER/Line® files.

The 108th TIGER/Line® file layer was created from the 108th Congressional District TIGER/Line® files.

### ● **MARPLOT Census 2000 TIGER/Line® Layers Grouping**

These map layers were created from the [Census 2000 TIGER/Line® files](#).

## Environmental Protection Agency (EPA)

Please see the [EPA Geospatial Index Library](#).


## U.S. Geological Survey (USGS)

Please see the [Geographic Names Information System](#).

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## Coastal Counties

New to LandView®6 is the identification of U. S. Counties that meet the definition of Coastal Counties as identified by the Strategic Environmental Assessments Division of NOAA, the National Oceanic and Atmospheric Administration for the Bureau of Census Statistical Abstract Series. The attached [NOAA's List of Coastal Counties](#)[PDF] document background on the list, definitions of what constitutes a Coastal County and a list of all U.S. Counties.

As the listing and identification serves several technical purposes, users may find it useful to understand how the listing is maintained in LandView and how a search for specific counties should be conducted. Counties are a sub-geography for State in the LandView Census dataset. In the lower-right corner of each County Form View, as a listing under Land Area is data field for NOAA Coastal Counties. This is a Yes/No field, and any search to include or exclude would require the appropriate Y/N entry.


A typical 'Setup a Find' is shown below. The search enters the two character identifier for the State of Florida, a Total population field entry identifying a search for counties having less than a 30,000 person population, and the identifier for the search to include only counties classified as 'Coastal'. The Found Set can display in MARPLOT®, be exported or otherwise processed in LandView/MARPLOT.

The screenshot shows the LandView 6 interface for setting up a search. At the top, there are navigation buttons: Setup a Find, Show All Records, View as List, Show on Map, Summarize, Thematic Map, Web Link, About this Profile, Historical '70-'90, and Home. Below these are search criteria: County (empty), State (FL), County Code (empty), Total population (<30000), Total Housing Units (empty), and Persons per sq. mi. (empty). A 'Print' button is visible. On the right, there are radio buttons for Demographic (DP-1) [selected], Social (DP-2), Economic (DP-3), and Housing (DP-4). The main table displays demographic data for 'SEX AND AGE' and 'HISPANIC OR LATINO AND RACE'. Below the table, there are fields for 'LAND AREA' (Square Miles and Square Kilometers) and a 'NOAA Coastal County?' checkbox (checked 'Y'). A legend at the bottom explains the race categories and notes that percentages may exceed 100% due to multiple race reporting.

SEX AND AGE	Number	PCT	HISPANIC OR LATINO AND RACE	Number	PCT
Male .....			Hispanic or Latino (of any race) .....		
Female .....			Mexican .....		
Under 5 years .....			Puerto Rican .....		

1 Other Asian alone, or two or more Asian categories.  
 2 Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.  
 3 In combination with one or more races listed. The following six numbers may add to more than the total population and the six percentages may add to more than 100 percent because individuals may report more than one race.  
 (X) - Not Applicable

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you will need the [Adobe\(R\) Acrobat\(R\) Reader](#) which is available for **free** from the Adobe web site.

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Source: U.S. Census Bureau

Geography Division

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# Export Records

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The **Export Records** function can be found under the **File** menu in the LandView® database. It will allow you to export records in the currently opened file to a variety of formats including: DBF Files, HTML Table Files, FileMaker Pro Runtime Files, Tab-Separated Text Files, and Comma-Separated Text Files. If you have performed a [Find](#), then only those records found will be copied.

For example you may have performed a **Find** on how many tracts in New Castle County, Delaware have less than 2,000 people. To export the 20 records that were found you would:

1. Choose **File** menu - **Export Records**.
2. In the **Export Records to File** dialog box, type a name and select a location for the file. Important -If another file with the same name already exists in the same location, this new file replaces the existing file.
3. Choose a file type from the **Save as type** list (Windows) or the **Type** list (Mac OS), then click **Save**. Use a file format supported by the application in which you plan to use the exported data.
4. In the **Specify Field Order for Export** dialog box, indicate how you want FileMaker Pro to export the data.
5. **To:**

### **Include a field in the export**

Double-click the field name to move it to the **Field Order** list. To export all fields, click **Move All**.

### **Include a related field in the export**

Choose a relationship from the relationship list, then move fields to the **Field Order** list. You can include related fields before, after, or between fields in the master file.

### **Prevent data in a field from being exported**

Select a field in the **Field Order** list, then click **Clear**. To move all fields out of the list, click **Clear All**.

### **Change the export order of the fields**

In the **Field Order** list, point to the double arrow to the left of the field name and drag it up or down.

### **Use a different character set in the exported file (Windows only)**

Choose an item from the **Character Set** drop-down list.

6. Select an option for formatting the exported data:

Click **Don't format output** to export data exactly as it is typed in the field (for example, export 3.7 even if the field is formatted to display on the current layout as \$3.70).

Click **Format output using current layout** to use number, date, and time field formatting as specified for the included fields on the current layout. Symbols and other non-numeric values are exported as text. (For example, export \$3.70 if the field is formatted to display this way on the current layout, even if the field actually holds 3.7.) You can't select this option for SYLK, DBF, or DIF formats.

7. Click **Export**.

To use an exported file: Open an application that can read the file format, and then open the file.

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## Find an Address

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### What is a ZIP Code<sup>®</sup> Tabulation Area (ZCTA<sup>™</sup>)?

[ZCTAs](#) are a new statistical entity developed by the U.S. Census Bureau for tabulating summary statistics from Census 2000. ZCTAs are generalized area representations of U.S. Postal Service (USPS) ZIP Code<sup>®</sup> service areas. They represent either USPS five- or three-digit ZIP Code areas. The term ZCTA was originated to differentiate between true USPS ZIP Codes and these approximations.

### How to Use the Address Finder

This feature is designed to quickly map a specified street within a county containing a ZIP Code Tabulation Area (ZCTA).

After entering the street name and ZIP Code, the Address Finder creates a list of matching street names for the county or counties containing the ZCTA and presents them in the MARPLOT<sup>®</sup> Search Collection window. Select the street and click on either the **Addresses** or **Intersection** button to identify the appropriate street segment to be mapped. Then click either the **Show on Map** or **Show on Map & Zoom** to position your map focus point. For more details on using the Search Collection window features click the Help button.

Using **Find an Address** in LandView<sup>®</sup> opens the MARPLOT mapping application and displays the results of a MARPLOT **Search**, the **Search Collection**, with a listing of all street names meeting the search criteria. The users must select and highlight the most appropriate listing. For example, the same street in the ZIP code could encompass two small towns and unincorporated county area. The **Address** button displays a listing of block faces along the street and the address range along each block face. The appropriate block face must be selected. Using the **Show on Map & Zoom** button returns the user to the MARPLOT display screen with the Focus Point on the selected street segment.

Not all block faces in TIGER/Line display address ranges. In the event that an appropriate address range cannot be found, the **Intersections** button will display all roads intersecting with the named street. If the user has sufficient knowledge, the nearest street intersection adjacent to the address can be identified.

Note that the Search Collection window will be blank if no streets within the county are found. Also, you need to close the Search Collection window before returning to LandView to look for another street.

ZIP Codes are a geographic identifier under the control of the Postal Service. ZIP Codes can be modified and new ones can be added. In the event that an address search returns zero results, the mapped location of the address may still be found using the MARPLOT Menu Bar command **List/Search** . . . . The

methodology is explained in the **MARPLOT Tutorial**. The Tutorial also discusses the methodology to precisely locate the address relative to the block face.

If you need to identify the state, county, and census tract associated with the map focus point, select **Segment Settings** from the **MARPLOT Objects** menu to determine which side of the street contains your address. Then position the map focus point on that side and select **Identify census areas at current map pointer** under LandView in the **MARPLOT Sharing** menu.

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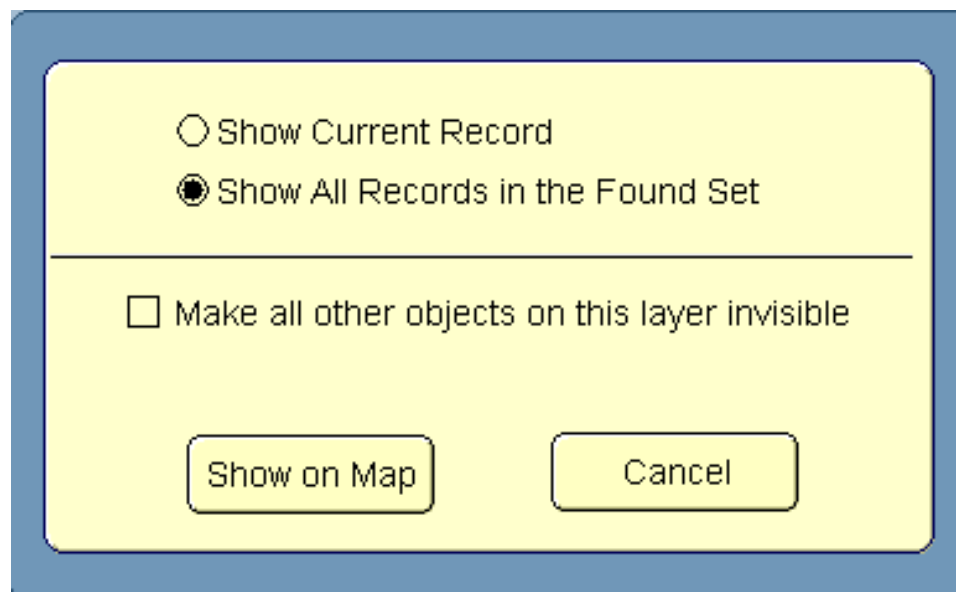
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## Go to Map/Show on Map

It should be borne in mind that LandView<sup>®</sup>, a database management program, and MARPLOT<sup>®</sup>, its mapping application, are independent applications that communicate with each other. Starting LandView does not automatically start MARPLOT. MARPLOT does not start until it has received a start command either from the **Go to Map** button at LandView Home or the **Show on Map** button available on each screen of its database displays. The resulting data records identified in a [Setup a Find](#) is referred to as the Found Set.

Once MARPLOT is running, the **Go to Map** buttons act as navigation tool to move to the current MARPLOT map display, but only if the user is at LandView Home. LandView and MARPLOT are multi-tasking. From any LandView Screen, the user can move to MARPLOT using the Start Menu at the bottom of the screen. If this MenuBar is not displayed, the keys, [**Control**]-[**Escape**], will cause it to display.

The **Show on Map** button always invokes LandView/MARPLOT functionality. If there is currently a **Found Set**, a dialogue box opens as below. There are two options. **Show Current Record** zooms in to a MARPLOT map display screen that just contains the selected record and places the map object in **Select** mode<sup>1</sup>. **Show All Records in the Found Set** zooms to a screen that just contains the Found Set with all objects in the Found Set in Select mode.



An additional option, **Make all other objects on this layer invisible**, hides similar objects in MARPLOT. Thus, if the State of Virginia was the selected record, all other state boundaries would not display, but Virginia would not be in Select mode.

If LandView were in a **Show All Records** format, the dialogue box would read, **Show current record**



**only**, with an option to **Make all other objects on this layer invisible**.

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<sup>1</sup> Placing one or more MARPLOT objects in Select mode allows for other MARPLOT tasks related to the object(s).

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# Importing Data LandView® User Files

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In a very limited way, LandView 6, as did LandView 5, returns to a feature that was available in the LandView III release and which was missing in LandView IV-user created or user modified data files where records in the database link to related objects in the MARPLOT® mapping application. LandView 6 is a runtime version of the underlying support application-FileMaker®Pro. As a runtime version, only data files included as part of formatting the runtime version are available for viewing.

LandView programmers have included five generic data files available for user customizing-*file\_01.lv6*, *file\_02.lv6*, etc. Each file is structured so as to receive (or not receive, as best suits a user's need) information into generically named fields. Additionally, there is a core group of named fields which, again, can either be used or ignored. These are:

Name An object identifier field

Description Allows an extended text description of the object

Latitude Allows for the creation of related MARPLOT point objects

Longitude Allows for the creation of related MARPLOT point objects

IDMARPLOT Unique identifier common to both MARPLOT and the data record

Each **User file** contains four sets of generically named fields with five fields to each set, of type: *character*, *numerical*, *data* and *logic*. These are named as follows: Text Field 1 thru 5, Number Field 1 thru 5, Data Field 1 thru 5 and Check Box Field 1 thru 5. A customizing option allows display of user assigned descriptive labels for each field when displaying entered data. An unused field, while remaining in the Form View, would best be displayed with neither its generic name nor the user assigned descriptive label.

Communication, or linking, between a LandView data file record and its related MARPLOT map object requires that the LandView file identifies the exact Map name and the exact Layer name containing the map object and that the unique identifier of the MARPLOT map objects, its MARPLOT ID, either be known to LandView or be assigned by LandView.

If the latitude/longitude fields in a User File are populated, a LandView export file can be created, as *C:\lv6\export.txt*, which can be imported into MARPLOT [1](#) so as to place **Point** map objects on the named **Map** and the named **Layer**. A User file can force population of its **Idmarplot** field and MARPLOT will

use these identifiers in creating the Point objects. Linkage between a record and its map object is thus established.

Refer to **Converting Latitude / Longitude data to Map Points** for an example of the procedure.


[Bringing Internet Data into LandView User Files](#) [PDF], an article by E. J. McFaul of the U.S. Geological Survey and one of several Help articles presented as [Unique Solutions](#), is a more comprehensive exploration of the same subject. Additionally, the article explores the use of the Internet as a source of GIS data for display in LandView/MARPLOT.

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<sup>1</sup> MARPLOT has two import-export options-a MARPLOT Import-Export format with files identified as *name.mie* and a Simple Point format with files identified as *name.txt*.



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## Indexing of LandView<sup>®</sup> Databases

The LandView datasets, particularly at the National level, contain many data records, and each data file can contain many fields. Only key fields in each file are pre-indexed so as to provide for rapid searching of the databases. Indexing adds content to a LandView file, and, as it is not known which of many fields would be of greatest interest to a researcher, no attempt to index was made beyond key fields.

Locked LandView files, those with the 'Read-only' property set, cannot be indexed. The primary method for viewing and exploring LandView data is to access the data directly from the distribution CD/DVD. These files are locked and cannot be indexed. There are alternate procedures for installing LandView files on an addressable drive see [Network Installation of LandView](#) and [Alternate LandView Installations](#), and, while it is not recommended as a normal operating procedure, such files can be unlocked and indexed.

A search of an un-indexed field in LandView, referred to as a **Find**, can be lengthy. Typically, such search would display a message, as below, as the search continues:

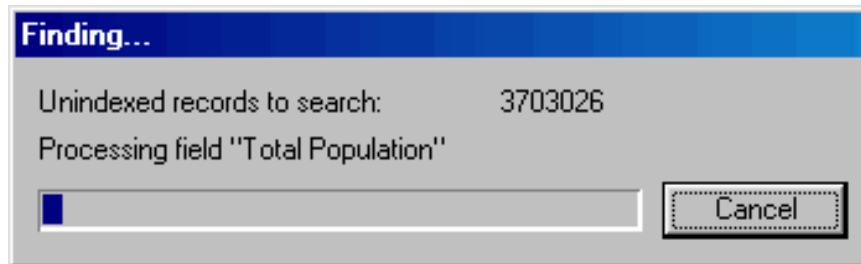


Figure 1

Each LandView database has its Index attribute set to: **Automatically turn indexing on if needed**. In the first time search of a new data field in an unlocked LandView file, the following message would appear:

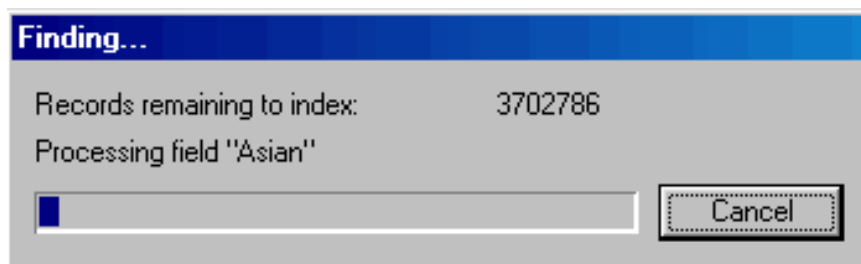


Figure 2

Subsequent searches of the same field in the same file would be almost instantaneous.

Working routinely with an unlocked LandView file can lead inadvertently to overwriting of data and the introduction of error. As an indexing procedure, files can be unlocked, but they should be relocked upon completion of the indexing procedure.

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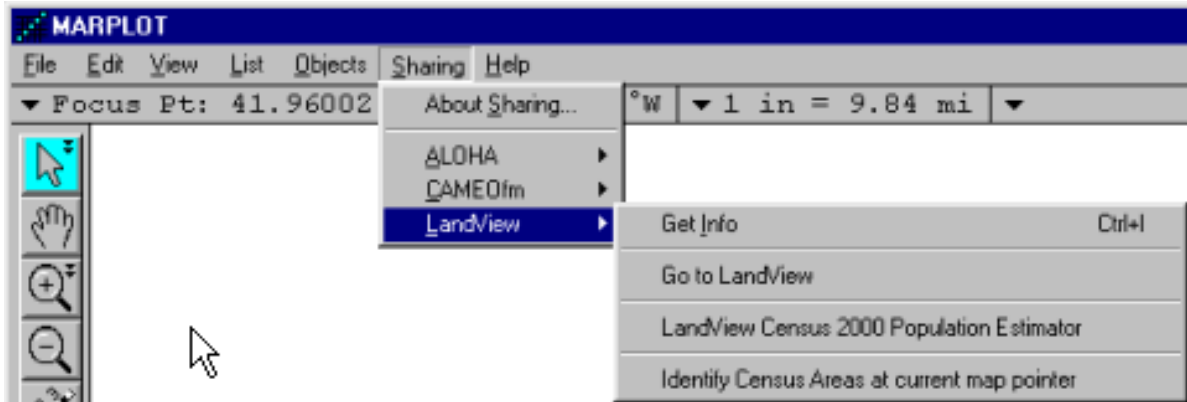
Source: U.S. Census Bureau  
Geography Division  
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## MARPLOT® Sharing Menu



Depending upon your usage of the MARPLOT mapping program, the MARPLOT Sharing Menu may or may not appear as above. MARPLOT is an independent application that provides mapping support to both the **CAMEO** and **ALOHA** applications [1](#) as well as **LandView®**. If these are not available on your computer, only the sub-menu associated with **LandView** will display.

As can be seen from the menu command, **Go to LandView**, Sharing provides navigation to each of MARPLOT's several related applications in a multi-tasking mode. If an application is not currently open, the command will start it. As an alternate means of moving between the applications, you may use the **Start** taskbar at the bottom of your screen. If the Start taskbar does not display, the keyboard command, **[Control]-[Escape]**, will cause it to display.

Two of the remaining commands are easily explained. **LandView Census 2000 Population Estimator** requires a more detailed explanation.

### The LandView Census 2000 Population Estimator

The population estimator provides both an absolute estimate of population at a radius about a point, based on a capture of **Census Block Points**, and a richer demographic study of the same population, this based on a capture of Census Block Group polygons. The default location for initiating an estimate is the location of the **Focus Point** in MARPLOT. See the related Help file for further information on the [Population Estimator](#).

### Get Information

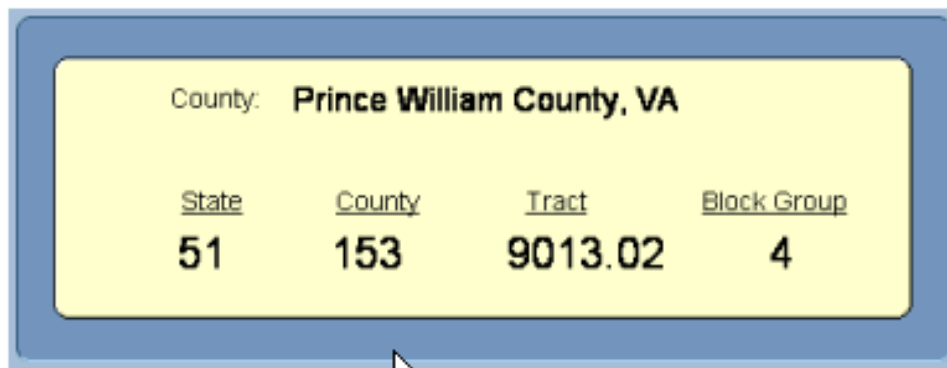
With one or more MARPLOT map objects in **Select** mode, The **Get Info** menu item returns the user to the appropriate LandView database with records for the selected object(s) in a **Found Set** in **List View**. A [Summarize](#) button allows consolidating the numerical fields for the record set into a single summary

record representing the multiple objects.

Please note that not all map objects have associated databases in LandView. Therefore if you have selected an object that has no information associated with it, LandView will let you know.

## Identify Census Areas at Current Map Pointer

The **Identify census areas at current map pointer** menu item calls up the display screen seen below (for a point in Prince William County, Virginia). Displayed are the **FIPS** codes (Federal Information Processing Standard) for the containing state and county. FIPS codes are used as both map identifiers and record identifiers in LandView /MARPLOT and serve other function in State and Federal programs. The identification of the containing census tract and block group is a required item for some Federal programs and grant applications.



County: <b>Prince William County, VA</b>			
<u>State</u>	<u>County</u>	<u>Tract</u>	<u>Block Group</u>
<b>51</b>	<b>153</b>	<b>9013.02</b>	<b>4</b>

If appropriate Census data is not found at the map pointer location, the window will display only empty data fields. This would happen if the pointer were located outside of a state boundary.

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<sup>1</sup>[CAMEO and ALOHA](#) are emergency planning and response softwares developed by U.S. EPA and NOAA.

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# LandView® 6

## Census 2000 Population Estimator

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The major difference in LandView 6 as compared to LandView 5 is the quantum leap in the kind and quality of the data available from the 2000 Decennial Census. Census 2000 data in both LandView 5 and LandView 6 is modeled upon the data tables presented in the Census 2000 Demographic Profiles.

The DP-1 tables, available in LandView 5, contained selected data items plus calculated statistics derived from the 1,040 statistical tables contained in Census 2000 Summary File 1 file (SF 1)-the datasets then available for publication. To Table DP-1, LandView 6 has added Tables DP-2 through DP-4; these are based on selected data items plus calculated statistics derived from the 813 statistical tables contained in Census 2000 Summary File 3 file (SF 3).

In LandView 6, the DP-1 through DP-4 tables are available at all levels of Census geography down to the Census Block Group level. A **National Summary** button, available at each dataset, allows comparison of local datasets to a National Profile representing composite data for the 50 United States and the District of Columbia.

With this expansion of LandView data comes a revision of the **Population Estimator**. In LandView 5, a search for population at a radius about a point would search out data at the Census Block level, the smallest unit of Census statistics and its most accurate. This, the Estimator still does. Accuracy comes, however, at a price-data agglomeration. At the Block level, only a limited set of data is available, that displayed in the Estimator dialogue box, shown below [1](#).

To share the rich demographics available in LandView 6, LandView has turned to the Census Block Group [2](#). The demographic profile in the Estimator relies on the capture of the centroids of Census Block Groups within the radius of a circle. For any individual Census Block Group, say, 55% of its area lies inside the capture circle, and its data would be included. Another Group might have 49% of its area inside of the circle and it would be excluded. On sum, the capture and loss of individual Block Groups should average out, but not to the degree of precision attached to population search by Census Blocks. It is this dichotomy of data that needs to be borne in mind when interpreting Population Estimator results.

### Using the Population Estimator

The Population Estimator can be opened from the **Estimate Population within a Radius** [3](#) button on the LandView 6 Home page. Normally, the population search is tracking the location of the **Focus Point** in MARPLOT, and the MARPLOT application should be running before using the Population Estimator. (Other Help files and the LandView Tutorial discuss the interactions of the LandView and MARPLOT applications.) In MARPLOT, once the Focus Point has been set to the desired search point, the Population Estimator is available from the MARPLOT MenuBar, at **Sharing/LandView/LandView Census 2000 Population Estimator**. Either pathway opens the Estimator shown below:



LandView Census 2000 Population Estimator

Instructions for using this estimator Home

Enter Location and Radius

Decimal degrees	Latitude 38.575317	Longitude -77.314705	Calculate Population using Block points ↓ Most accurate, but limited to the race & ethnicity fields below	Summarize Demographic Profiles using Block Group points ↓ Less accurate, but provides more demographic information
or deg-min-sec	0 0 0	0 0 0		
hemisphere	<input checked="" type="radio"/> North <input type="radio"/> South	<input checked="" type="radio"/> West <input type="radio"/> East		
Radius (miles) 3				

Clear all fields Refresh Lat/Long from MARPLOT Print this screen Show this radius on map

Results (based on Census **Block** points located within or touching the circle defined by the radius)

Total population:	32,118	Block count:	188
Housing Units:	11,630	Area within radius:	28.3 sq. mi.

White alone:	18517
Black or African American alone:	10020
American Indian and Alaska Native alone:	151
Asian alone:	1075
Native Hawaiian and Other Pacific Islander alone:	50
Some other race alone:	1045
Two or more races:	1260
Hispanic or Latino:	2844

In this example, the MARPLOT Focus Point has been set to a location in eastern Virginia. Entered in the **Radius (miles)** field is a search radius of three miles. The button at **Calculate Population using Block points** has already been invoked, and we see, that within the capture radius, there is a population of 32,118 persons. The limited dataset available at the Census Block level is shown in the dialogue.

To explore a demographic profile at the same map location, use the **Summarize Demographic Profiles using Block Group points** button. After calculations, the DP-1 format data screen, shown below, is seen.

When using the **Summarize Demographic Profiles Using Block Group points** function on either the East or West DVD, users need to pay attention to whether their radius extends beyond the state boundaries of the states contained on the DVD. A simple way to determine this is to use the **Show this radius on map** function.

If a portion of the circle defined by the radius is located in a state not contained on the DVD, the results will exclude the demographic and housing characteristics for that portion of the circle. In such situations, we recommend that the user change the threshold for the block group method (which is shown on the Population Estimator Help Screen) to a value smaller than the radius. Doing this will produce a complete demographic profile since it will then be calculated from a national file of tract internal points contained on both the East and West DVDs.

Using the radio buttons in the upper-right corner, we can move from the DP-1 table through tables DP-2 to DP-4. We can print each of these tables. We can compare them to the National Profile or to a profile of the containing City, County or State. More detailed instructions on using the Estimator are available at the **Instructions for using this estimator** button.

**LandView 6 - Census 2000 Profile of General Demographic Characteristics DP-1 (100%)**

Summary of Census Block Groups # records summarized: 16

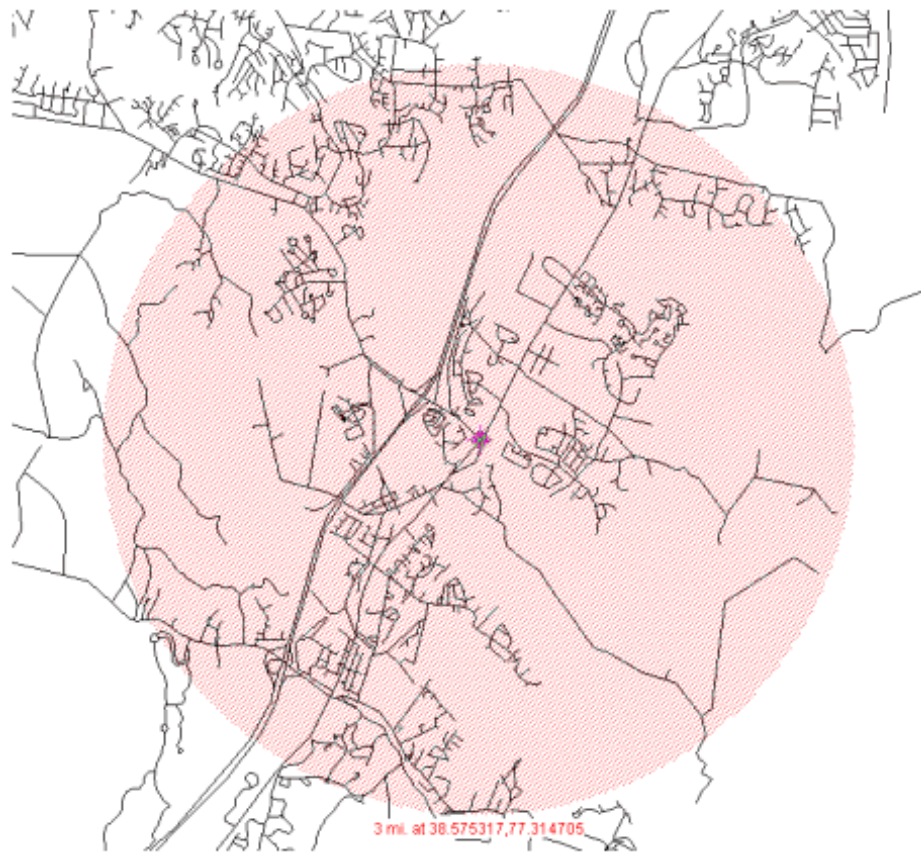
Total population 35,865 Total Housing Units 12,872 Persons per sq. mi: 869.6

Population estimate for radius: 3 miles (38.575317, -77.314705)

SEX AND AGE	Number	PCT	HISPANIC OR LATINO AND RACE	Number	PCT
Male .....	17,455	48.9	Hispanic or Latino (of any race) .....	3,001	8.4
Female .....	18,210	51.1	Mexican ? .....	(0)	(0)
Under 5 years .....	3,429	9.6	Puerto Rican ? .....	(0)	(0)
Age 5 to 9 years .....	3,355	9.4	Cuban ? .....	(0)	(0)
Age 10 to 14 years .....	3,068	8.6	Other Hispanic or Latino ? .....	(0)	(0)
Age 15 to 19 years .....	2,546	7.1	Not Hispanic or Latino .....	32,664	91.6
Age 20 to 24 years .....	2,303	6.5	White alone .....	19,741	55.4
Age 25 to 34 years .....	5,923	16.6	<b>RELATIONSHIP</b>		
Age 35 to 44 years .....	6,947	19.5	In households .....	35,639	99.9
Age 45 to 54 years .....	4,517	12.7	Householder .....	12,285	34.4
Age 55 to 59 years .....	1,347	3.8	Spouse .....	6,842	19.2
Age 60 to 64 years .....	826	2.3	Child .....	12,549	35.2
Age 65 to 74 years .....	898	2.5	Own child under 18 years .....	10,494	29.4
Age 75 to 84 years .....	419	1.2	Other relatives .....	2,014	5.6
Age 85 years and over .....	87	0.2	Under 18 years .....	807	2.3
Median age .....	(0)	(0)	Nonrelatives .....	1,949	5.5
Age 18 years and over .....	24,140	67.7	Unmarried partner ? .....	(0)	(0)
Male .....	11,591	32.5	In group quarters .....	26	0.1
Female .....	12,549	35.2	Institutionalized population .....	0	0.0
Age 21 years and over .....	22,837	64.0	Noninstitutionalized population .....	26	0.1
Age 62 years and over .....	1,845	5.2	<b>HOUSEHOLDS BY TYPE</b>		
Age 65 years and over .....	1,404	3.9	Total households .....	12,285	100
Male .....	578	1.6	Family households (families) .....	9,235	75.2
Female .....	826	2.3	With own children under 18 yrs .....	5,653	46.0
<b>RACE</b>			Married couple family .....	6,842	55.7
.....	24,326	68.2			

Demographic (DP-1)  
 Social (DP-2)  
 Economic (DP-3)  
 Housing (DP-4)

An additional feature of the Estimator is the **Show this radius on map** button. Using the button, we return to MARPLOT with the search radius displayed as below. However, unless we place it into a context, we learn little. The MARPLOT map screen has been reset to show the network of roads in and around the capture circle.



A final feature in the Population Estimator that bears mentioning is the fact that a population search can be conducted at very large radii. As a radius becomes larger, though, the number of Block points to be searched multiple as the square. At some point the data search can become time consuming. To minimize search time, at a pre-set radius, the search moves from examining Census Block points to examining Census Tract points. The default radius for this is 25 miles <sup>4</sup>. Within the **Instructions for using this estimator** button discussed above, lies an addressable field that allows this default search radius to be changed to meet a user's needs.

Searches for Population at a radius around a point are programmed utilities within LandView. Searches for population residing within a defined map area, say a National Park, require some additional effort on the part of the user. Methods for such searches are explored in an article in [Unique Solutions](#).

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<sup>1</sup> There are 8.2 million census tabulation blocks for the geographic areas shown in LandView. 2.7 million blocks are excluded because they contain zero population and zero housing units.

<sup>2</sup> There are 211,267 block groups for the 50 states, District of Columbia and Puerto Rico. On the average, each block group contains about 39 blocks.

<sup>3</sup> The LandView program's algorithm for determining which block internal points fall within the radius takes the curvature of the earth into account. The MARPLOT mapping engine in mapping the radius does not. Consequently for larger radii, users might note differences in the block point counts between MARPLOT and the Population Estimator.

<sup>4</sup> An [alternate population search](#) that is frequently of interest is Finding the Population Within an Irregular Polygon. An example of such a search is given in Lesson 5 of the LandView 6 Tutorial.

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## Predefined Census Data Queries

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Users should note that after selecting a particular state in the state tab and then clicking on another geographic level tab (Indian areas, places, counties, etc.), the LandView® program will automatically create a collection of records for that geographic level within that state. For example, clicking on the "Tracts" tab after selecting Oklahoma will create a collection of all census tracts within the state.

The resulting collection is identified in the Status Area as a Found Set. This navigational method emulates the 'Setup a Find' process at any level of Census geography that would require entering appropriate State and/or County identifiers.

Because not all states have Indian Areas, consolidated cities, or minor civil divisions, an explanatory message will appear whenever the query finds no records in that geographic level.

Similarly, LandView will automatically create a collection of MCDs, census tracts and block groups if these tabs are selected after a county has been selected.

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# Setup A Find

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## Setup A Find

Finding specific records in the database is very easy. You first **setup** the find operation by first clicking on the **Setup A Find** button and then simply entering your desired selection criteria in one or more of the database fields. When all criteria have been entered, click on the **Find** button that appears on the gray panel on the left side of the display screen. The selection criteria entered in the fields are collectively referred to as a **Search Request** and can be combined with a Boolean **AND** when the **Find** button is clicked. For numeric fields, you can use symbols before the number, such as **< (less than)**, **<= (less than or equal to)**, **> (greater than)**, **>= (greater than or equal to)**.

**NOTE:** Any field with a **drop-down menu** button beside it will display a list of possible values for that field when the button is clicked.

## The Boolean OR

Sometimes you need to find records by combining criteria with a logical or Boolean **OR** operation. Since each set of criteria is treated as a separate Search Request, a Boolean **OR** is made by simply adding new Search Requests. To add a new Search Request, first click on the **Requests** pull-down menu at the top of the display screen, and then choose the **Add New Request** option from this menu to enter a new set of selection criteria. You may add as many new Search Requests as needed. When all of the **Search Requests** have been entered, click on the **Find** button that appears on the gray panel on the left side of the display screen to complete the find operation.

For multi-field searches, using Duplicate Request from the Requests menu is a time-saver over using Add New Request. Only the changed data needs to be edited.

## Additional Operators

There are additional operators or **symbols** that may be used in setting up the find operation. These additional operators can be found by clicking on the **Symbols** button to display the complete list. To use an operator, first place your cursor in one of the fields on the display screen and then simply click on the desired operator. Once the operator is in the desired field, click on the button that appears on the gray panel on the left side of the display screen to perform the corresponding find.

**NOTE:** If you want to find all the records that have been **omitted** based on your search criteria, simply click in the **Omit** check box prior to clicking the **Find** button.

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Last revised: *September 25 2003*

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## Summarize

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The **Summarize** button is located on every Census geography screen for the DP1-4 tables. This function is especially useful when a [Find](#) has been performed. Its purpose is to sum numeric fields to produce totals for a selected subset of records. It is also activated when several objects are selected from the MARPLOT®, map, and choose **Sharing - LandView - Get Info**. The following are several examples of how the "Summarize" function can be used:

Suppose you performed a **Find** on the number of counties that have less than 5,000 persons. You may then click on the **Summarize** button to get the total number of persons, by age, sex and race etc. in those counties.

You could also select a collection of census tracts from MARPLOT and then summarize to get the population statistics totals for all the people living in the selected area.

To do this, first highlight the census tracts that you are interested in MARPLOT. Then from the **Sharing** menu, select **LandView - Get Info**, this will take you back to the LandView Demographic Profile screen with the census tract database in use. The left-hand column will show the total number of census tract records in the database, and the number of records found (selected). Clicking on the **Summarize** button will result in one summary record for the selected census tracts.

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# Thematic Mapping

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The Thematic Mapping function allows the user to choose a data set and display it on a map using one of four color schemes and a solid or patterned fill. For example, you can display Age or Race data for counties in a range of colors.

When you first enter the **Census 2000 Demographic Profiles** database in LandView®, choose the geographic entity at which you would like to see the data displayed by clicking on the appropriate tab i.e. Counties or Census Tracts etc. In order to look at data for counties in Maryland for example, click on the **Counties** tab and then click the [Setup A Find](#) button. Once the Find screen appears, enter the state abbreviation in the field box labeled **State** and click on the **Find** button to the left of the screen.

With the expansion of data available in LandView 6, an appropriate data field can be selected from any of the four DP tables. In the appropriate DP table for Maryland Counties, place the cursor in either the **number** or the **percent** field box next to a data item of interest. Boxes marked with a percent sign, will be calculated based on the percentage. If you are not looking for a result based on the percentage, then click in the **number** field box. Once you have highlighted the appropriate field box you can then click on the **Thematic Map** button. If you do not select a data item, the following message will pop up-**You must first click on a numeric field before performing this procedure.**

Once at the Thematic Map screen, a set of four number ranges should appear. (In some instances this may not be the case.) The system determines the values of the selected data item by choosing number ranges that approximate an even distribution of records among the four or less categories. (Note that it may take the system a little time to process a large number of records.)

If you wish to change the quartile values, clicking on a number under **To** or **From** will highlight the number ranges and allow you to enter your own ranges. Click **Recalculate Record Count** when you are done. This will allow the system to redistribute the records. If you want to change the title, then simply click on that area of the screen and a text box will be displayed so that a change can be made.

There are four color schemes to choose from to display the map, as well as a choice of a solid or patterned fill. Once you have your display pattern and number ranges set, select **Show on Map** and a map will be displayed in MARPLOT®.

To cancel the thematic map, go back to LandView and click the **Cancel** button in the thematic map window. This will bring you back to the Census database. If you go back into MARPLOT after canceling the map in LandView, MARPLOT will return to its normal way of displaying objects.

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## Unique Solutions

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In response to LandView® user queries, the LandView staff has occasionally developed methodology, using inherent LandView functionality, to meet the users' needs. Users, too, have identified innovative uses of LandView/MARPLOT® material. LandView feels it important to share these **Unique Solutions** with our users in the hope that they meet the needs of others with the same concerns or catch the imagination of our users.

- [Thematic Mapping of Multiple Variables](#) [PDF]

LandView's **Thematic** mapping utility is designed to create a thematic map examining the spread of data values within a single data variable. Pathways are available to explore multiple variables in LandView and to display the variation in properties in MARPLOT.

- [Subsets of Latitude/Longitude Values from Polyline or Polygon Map Objects](#) [PDF]

In MARPLOT, polyline or polygon objects are defined by a series of latitude/longitude pairs connected by line segments. It can be of value to create a new map object formed by a sub-set of these values. An example could be that portion of a state's boundary that is a **coastline** and fronts an ocean.

- [Bringing Internet Data into LandView User Files](#) [PDF]


The Internet is a valuable source of GIS data, yet such data is frequently available only in higher order GIS applications. This article, by Jerry McFaul-USGS, demonstrates how the GIS data available on the Web may be shared with LandView/MARPLOT users. This article was originally written in support of the LandView 5 application. Screen shots and references to files names refer to that application. Similar LV6 files replace all files referenced as LV5.

- [Other Population Searches Defined in MARPLOT](#) [PDF]

LandView has automated searches for populations at a radius around a point. Population searches in a defined map area, a polygon, require additional user input. Several methods are discussed.

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## Viewing LandView® Data

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When first opening a LandView database—either Census, EPA or USGS GNIS—records display in an unsorted format in **Form view**.

A Menu command, **Records/Sort . . .**, opens a dialogue box that will place records in sort order by an appropriate data Field. Often, this is sufficient to meaningfully examine a dataset.

A Roladex-type icon to the left of the LandView data screen, in an area known as the **Status Area**, allows scrolling through individual data records. A slide lever at the right of the icon permits rapid scrolling. Message displays in the Status Area tells whether **All Records** are available for viewing or whether the displayed records represent a **Found Set**. In either event, the number of records available for viewing is shown.

The data set in Form View can be viewed as a table by using the **View as a List** button at the top of the data screen.

In List View, at the left of each record is a small check box. Clicking here selects an individual record. When in List View, the **View as a List** button is replaced by **View as a Form**. Clicking on View as a Form returns the user to Form View with the selected record in display.

In LandView 6, the Census dataset has expanded dramatically from the 2000 Decennial Census data available for publication in LandView 5. In LandView 5, Census data was limited the demographic data known as Table DP-1 (a sub-set of data available in Census Summary File 1-SF1). In addition to the DP-1 table, LandView 6 adds the data in Tables DP-2 through DP-4—social, economic and housing data (a sub-set of the data in Census Summary File 3). A set of tables DP-1 through DP-4 summarized for the 50 States and the District of Columbia is known as the **National Profile**. A **National Profile** button at the top of each Census geography permits viewing the current dataset in relation to the National Profile.

The U.S. EPA database of regulated facilities show only limited data for each facility—facility name, locational information, assigned identifiers and the various EPA media programs under which each facility is regulated. However, with Internet access, much additional information is available for each facility. The **Web Link** button takes the user to EPA's **EnviroFacts Warehouse** to display a detailed regulation history for the displayed facility.

The USGS's **Geographic Names Information System** provides information on a broad database of geographic features, including feature names and feature types. The GNIS, however, is a relational database, and buttons provide additional descriptive and historical information, when available.

### MARPLOT® Mapping Expands the Data in LandView

Each LandView record links to a geographic feature in MARPLOT. Identify one or more records in a LandView database and their geographic locations can display on a map. Similarly, MARPLOT map objects can be identified in a MARPLOT **Search**. Once identified, the information attributes of the **Search Collection** can be displayed in LandView.

However, this is only part of the LandView/MARPLOT story. Once map objects are identified either through a LandView record search or a MARPLOT map search, their location vis-à-vis other map objects provides broad new information. What is the population living within three miles of your home? Are there hazardous waste sites in proximity to your children's schools? What neighborhoods in your city, county or state meet a defined demographic profile?

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## Your Gateway to Census 2000

**Thank you, America, for your participation in Census 2000.**  
The population of the U.S. on April 1, 2000 was **281,421,906** [[PDF 2M](#)].

### Information Links

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[Notes and Errata](#) [PDF 1.4m] - Includes geography and data corrections

[Questionnaires](#) - Short and long forms, and why we asked the questions

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[Census in Schools](#) - Lesson plans, teaching kits, and resource materials

[Contact List](#) - Names and phone numbers of subject matter experts

### Access Data by Geography

#### American FactFinder

Tables and maps of Census 2000 data for all geographies to the block level



Enter a [street address](#) to find Census 2000 data

#### Data Highlights

Data highlights, documentation, and FTP access for the U.S., states, counties, places (cities & towns) and more, including Puerto Rico and [Island Areas](#)

#### State & County QuickFacts

Summaries of the most requested data for states and counties



Select a state:

### Census Data

#### Rankings and Comparisons (PHC-T)

Tables showing population change, comparisons with 1990, Race and Hispanic or Latino origin, and other topics for states, counties, and places

#### Census 2000 Briefs and Special Reports

Analytical reports on population change, race, age, family structure, housing, apportionment, and more

#### Publications Library

View or download published results from Census 2000 available in Portable Document Format (PDF).

#### Geographic Products and Information

Maps and digital geographic products for use in GIS and mapping software

#### 1990 Census

Data and information from the 1990 Census

#### Selected Historical Census Data - 1790 to 1990

#### Census 2000 Data Releases

- [5-Percent Public Use Microdata Sample \(PUMS\) Files](#)
- [Migration Data and Reports](#)
- [Summary File 4](#)
- [MCD/County-To-MCD/County Worker Flow Files](#)
- [1-Percent Public Use Microdata Sample \(PUMS\) Files](#)
- [108th Congressional District Summary Files](#)
- [County-To-County Worker Flow Files](#)
- [Summary File 3](#)
- [Demographic Profiles](#)
- [Summary File 2](#)
- [Summary File 1](#)
- [Redistricting Data](#)
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#### Decennial Supplementary Surveys

2000 and 2001 US and state estimates on income, poverty, education, and other topics


See the November 7, 2002:

Data from previous censuses

- [Revised 2000 Estimates](#)
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Census 2000 data (current and future product  
releases), and what you will and won't find here



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Maintained By: Laura K. Yax (Population Division)  
Created: January 25, 2002  
Last Revised: September 09, 2003 at 10:39:44 AM

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# U.S. Census Bureau

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Find statistics for your State or county by pointing and clicking on the maps.

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View maps for your local area or zip code using the TIGER map server.

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# U.S. Census Bureau

## Data Access Tools

[The American FactFinder](#)- This newly updated interactive database engine supports the 1997 Economic Census...the American Community Survey...the 1990 Census.. Census 2000 and the 2002 Population Estimates.

### Interactive Internet Tools

- [Censtats](#) - Applications available include: Census Tract Street Locator, County Business Patterns, Zip Business Patterns, International Trade Data, and more.
- [QuickFacts](#) - State and County QuickFacts provides frequently requested Census Bureau information at the national, state and county level.
- [TIGER](#) | [TIGER Map Service Info](#) | [Maps](#) - Topologically Integrated Geographic Encoding and Referencing system.
- [US Gazetteer](#) - Place name, and ZIP code search engine.
- [1990 Decennial Census Lookup](#) - Create your own extract files from the 1990 summaries.
- [DataFerrett](#) is a tool and data librarian that searches and retrieves data across federal, state, and local surveys, executes customized variable recoding, creates complex tabulations and business graphics. Current Population Survey, Survey of Income and Program Participation, American Community Survey, American Housing Survey, Small Area Income Poverty Estimates, Population Estimates, Economic Census Areawide Statistics, National Center for Health Statistics data, Centers for Disease Control data, and more. **[The information that the Data Extraction System (DES) once provided is now available through [DataFerrett](#).]**

### Downloadable Software

- [CD-ROM Software Correction/Update](#) - Software, user notes, data file revisions and more for those who have purchased CD-ROM products from our Customer Services office.
- [Extract Software](#) - General purpose data display and extraction tool that works with Census Bureau CD-ROMs recorded in dBASE format - (for: IBM-PC's and compatibles with CD-ROM player)
- [VPLX Software](#) - Variance Estimation for Complex Samples (for IBM-PC's and compatibles and UNIX [Sun/Solaris])
- [CSPro](#) (Census and Survey Processing System) is a public-domain software package for entering, tabulating and mapping census and survey data.
- [IMPS software](#) - The Integrated Microcomputer Processing System (IMPS) software performs the major tasks of census and survey processing.

### Direct File Access

- [Census 2000 datasets](#)

- **Census OUTGOING File Directory** ([HTTP](#) or [FTP](#)) - Pickup files from Census Employees.
- **Census INCOMING File Directory** ( [HTTP](#) or [FTP](#)) - Files sent to Census Bureau Employees (invisible to non-employees).

## **Sending Files to the Census Bureau**

- [Public file send utility](#)

## **Access Tools at Other Sites**

- [Government Information Sharing Project](#) [Oregon State University].
- [Integrated Public Use Microdata Series](#) - iPUMS [University of Minnesota].

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# U.S. Census Bureau

## U.S. Census Bureau



U.S. Department of Commerce

### Freedom of Information Act (FOIA)

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The Freedom of Information Act (FOIA) was enacted in 1966 to provide people a means to access federal agency records, with the exception of those excluded from consideration under the FOIA or protected by one of [nine FOIA exemptions](#).

Gerald W. Gates, Chief of the Policy Office, is the FOIA Officer for the Census Bureau.

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Address all FOIA requests regarding Census Bureau records to the FOIA Officer, Policy Office, Room 2430-FB 3, Census Bureau, Washington, D.C. 20233-3700.

If you prefer, you can send FOIA requests by FAX on (301)-457-2654 or by electronic mail ( [Policy Office staff](#) ). Please note that we prefer to send responses only through the U.S. Postal Service or, if requested, by FAX.

If you have any questions about FOIA requests, you can contact [Policy Office staff](#) responsible for those activities.

*Source: U.S. Census Bureau, Policy Office*



# U.S. Census Bureau

## Census Bureau Section 515 Information Quality Guidelines

### OMB section 515 information quality guidelines

- The Office of Management and Budget (OMB) issued government-wide information quality guidelines under section 515 of the Treasury and General Government Appropriations Act for Fiscal Year 2001.
- The [OMB section 515 information quality guidelines](#) have been prepared to ensure and maximize the quality, objectivity, utility and integrity of information disseminated by Federal agencies.

### Census Bureau section 515 information quality guidelines

- [Census Bureau section 515 information quality guidelines](#) are available at <http://www.census.gov/>. These guidelines establish a basic standard of quality (including objectivity, utility, and integrity) as a performance goal for the Census Bureau and comply all applicable section 515 information quality guidelines of OMB and the Department of Commerce.

### Seeking correction to information subject to section 515 guidelines

- The Census Bureau has established [procedures to allow persons to seek correction](#) of information maintained and disseminated by the agency subject to section 515 guidelines. These procedures take effect on October 1, 2002.



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If you are providing a credit card number, link to our catalog page to learn about our credit card security policy. Any page describing a product for sale by e-commerce will include a "Buy" box at the bottom. Clicking on the box will take you to a page linking to our credit card security statement.

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Some Census Bureau surveys and censuses permit response over the Internet. The following additional policies apply to personally-identifiable information provided in response to a Census Bureau survey or census.

To respond to a survey or census via the Internet, you will have to provide us **personally-identifiable** information. For each survey and census, we provide an explanation to respondents about the confidentiality of the data and the laws that protect that data (e.g., Title 13, United States Code Section 9 (a)).

To protect your privacy, in the remote chance that your survey or census responses are intercepted, all web data submissions are encrypted.

Questions concerning this policy may be addressed to: [webmaster@census.gov](mailto:webmaster@census.gov), attn: Policy Office.

## Document Accessibility

The Census Bureau is committed to making every document on its internet server accessible to all. Currently, we are reviewing our site and making modifications to those pages which are not in compliance with the Americans with Disabilities Acts. We use Hypertext Markup Language (HTML) to create pages that are generally accessible to persons using screen reading devices, and we are careful in our construction of HTML documents to insure maximum accessibility. We will include alternate text describing graphics.

Many Census Bureau internet documents are in ASCII or HTML formats. These documents are accessible to persons using screen reading software. We also have a large number of documents in Adobe Acrobat PDF (Portable Document Format) files. Currently, many people using screen reading devices cannot read documents in PDF format.

Adobe Systems, Inc., is producing various products designed to make Adobe Acrobat documents accessible to persons using screen reading software. Their [accessibility web pages](#) describe their efforts. They also have a free downloadable accessibility plug-in, called Adobe Access, for use with the latest versions of the Adobe Acrobat Reader for

Microsoft Windows 3.1, Windows 95, or Windows NT. This plug-in, which is still in a beta version, helps to overcome some of the problems of reading PDF documents with screen readers. While these tools are in development, we are committed to providing ASCII or HTML versions of these PDF files.

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## Census Bureau Statement on Statistical Quality

See our [Census Bureau Section 515 Information Quality Guidelines](#)

## Confidentiality

Protection of Confidential Information -- Sections 9 and 214 of Title 13

### Sec. 9. **Information as confidential; exception**

(a) Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof, or local government census liaison may, except as provided in section 8 or 16 or chapter 10 of this title or section 210 of the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Appropriations Act, 1998.<sup>(1)</sup>

(1) use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or

(2) make any publication whereby the data furnished by any particular establishment or individual under this title can be identified; or

(3) permit anyone other than the sworn officers and employees of the Department or bureau or agency thereof to examine the individual reports. No department, bureau, agency, officer, or employee of the Government, except the Secretary in carrying out the purposes of this title, shall require, for any reason, copies of census reports which have been retained by any such establishment or individual. Copies of census reports which have been so retained shall be immune from legal process, and shall not, without the

consent of the individual or establishment concerned, be admitted as evidence or used for any purpose in any action, suit, or other judicial or administrative proceeding.

(b) The provisions of subsection (a) of this section relating to the confidential treatment of data for particular individuals and establishments, shall not apply to the censuses of governments provided for by subchapter III of chapter 5 of this title, nor to interim current data provided for by subchapter IV of chapter 5 of this title as to the subjects covered by censuses of governments, with respect to any information obtained therefor that is compiled from, or customarily provided in, public records.

#### Sec. 214. **Wrongful disclosure of information**

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter 1 of this title, having taken and subscribed the oath of office, or having sworn to observe the limitations imposed by section 9 of this title, or whoever, being or having been a census liaison within the meaning of section 16<sup>(2)</sup> of this title, publishes or communicates any information, the disclosure of which is prohibited under the provisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than \$5,000 or imprisoned not more than 5 years, or both.

1. The Census Address List Improvement Act of 1994, P.L. 103-430 amends section 9(a) by inserting "or local government census liaison" and adding references to section 16. P.L. 105-119, the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Appropriations Act, 1998, adds the reference to section 210.

2. The Census Address List Improvement Act of 1994 (P.L. 103-430) amends section 214 making references to section 16 and "census liaisons."

# U.S. Census Bureau

## Contacting the Census Bureau

In order to expedite any email request, please include your name and a contact number.

### Census 2000

Information: [Census 2000 News and Information](#)

Email: [webmaster@census.gov](mailto:webmaster@census.gov)

### Census Jobs

Information: [Jobs@Census](mailto:Jobs@Census)

Telephone: 301-763-4748

Email: [recruiter@census.gov](mailto:recruiter@census.gov)

### Business Statistics and Economic Census

Economic Census Information: [1997 Economic Census](#)

Help with your Economic Census form: [The 2002 Economic Census Help Site](#)

North American Industry Classification System (NAICS) email: [naics@census.gov](mailto:naics@census.gov)

Other business statistics email: [Ask Dr. Census](#)

### Population and Housing Statistics

Information: [Census Bureau Population Topics and Household Economic Topics](#)

Email on population, including historical figures: [pop@census.gov](mailto:pop@census.gov)

Email on income, poverty, housing, labor force, occupations: [hhes-info@census.gov](mailto:hhes-info@census.gov)

Email on international statistics: [ipc@census.gov](mailto:ipc@census.gov)

### Genealogy Questions

Looking for ancestors? See the [Genealogy FAQ](#)

Email: [genealogy@census.gov](mailto:genealogy@census.gov)

### Help with our Products

Technical help with our CD-ROM software: [techsupp@census.gov](mailto:techsupp@census.gov)

Feedback regarding the American FactFinder: [factfinder@census.gov](mailto:factfinder@census.gov)

Help with our TIGER/Line and mapping products: [TIGER Mail](#)

## Ordering Data Products

Call Center: 301-763-INFO (4636)

E-mail questions: [webmaster@census.gov](mailto:webmaster@census.gov)

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Email: [pio@census.gov](mailto:pio@census.gov)

## General Comments

Concerns, kudos, complaints: [comments@census.gov](mailto:comments@census.gov)

Other general inquiries: [webmaster@census.gov](mailto:webmaster@census.gov)

## Mailing Address:


Via U.S Postal Service (USPS):

Name of Recipient  
U.S. Census Bureau  
4700 Silver Hill Road  
Washington DC 20233-0001

Via private carriers other than USPS:

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## Thematic Mapping of Multiple Variables

LandView's **Thematic Mapping** utility is designed to examine the spread of values within a single numerical data field in LandView Census. However, a LandView **Found Set** can also be based on two or more data variables, and this Found Set can be a thematic display in MARPLOT. An example of this is given in the LandView Tutorial. Pertinent excerpts from the tutorial are included below. This article extends the procedure to creating a complete thematic mapping of all Census Block Groups within a geography—the State of Virginia.

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*A concern of a number of federal agencies is Environmental Justice—a concept that people living in disadvantaged communities may not have the necessary political and social resources to resist unsolicited intrusions into their neighborhood. While definitions of Environmental Justice vary, two elements are common—minority status and poverty. Either can be a criterion, but both together identify the more disadvantaged communities. Assume that you want to identify such areas within your Home State. We will use Census Block Groups as identifying neighborhoods. We will define Minority Status as “Table DP-1—Race, One Race, White” being less than 50% of the population. We will define Poverty as “Table DP-3—Poverty Status in 1999, Families” being greater than 20%. Let us proceed to identify such areas within your Home State.*

Since our definition of neighborhood is the Census Block Group, the ‘Setup a **Find**’ must start at the **Block Group** tab. Note that when looking at a State dataset, each State is represented by both a name and a Code. This Code is known as a FIPS Code, for Federal Information Process Standard. In your search at the Census Block Group level, you cannot use your State Name; you must use its Code. So, you will need to remember it.

Open the **Block Group** tab, and ‘Setup a **Find**’<sup>1</sup>. In the State field at the top of table DP-1 enter your State’s FIPS Code. In the table, find the “**One Race—White**” data field and move over to the Percent column. Enter “less than 50%”, but this must be entered so that the computer will understand; your actual entry is “<50.00”. (Note that the Symbols button to your left will open a palette of choices that you will find useful.) Now, open table DP-3 from the button box. Locate “**Poverty Status in 1999—Families**”. In the Percent column, enter “greater than 20%” as “>20.00”. Now, click the **Find** button and LandView will commence its search.<sup>2</sup>

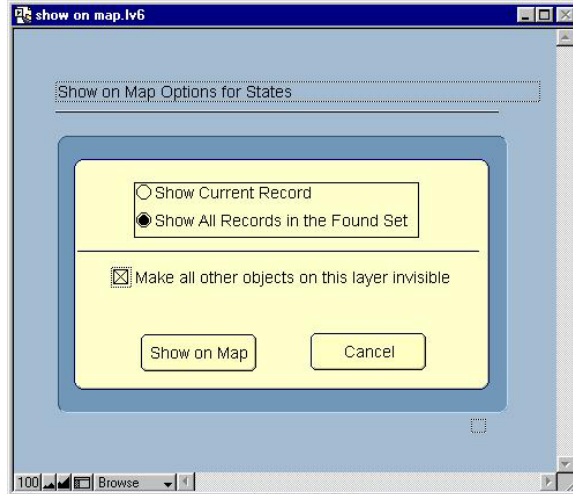
---

You can now explore a third step in explicating the data—displaying the Found Set on a map in MARPLOT. The **Show on Map** button opens the dialogue box shown in Figure 17.

---

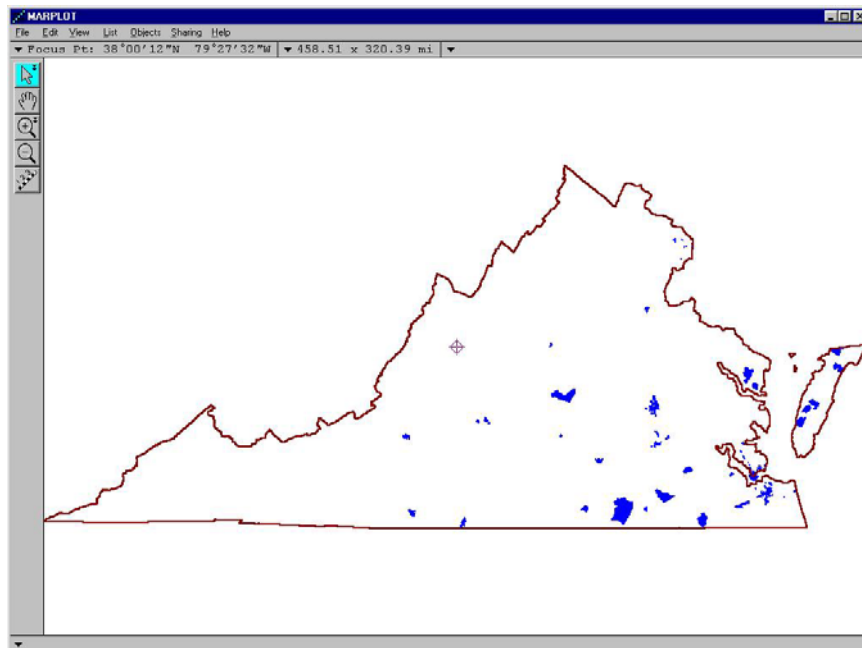
<sup>1</sup> It is not necessary to go to your Home State when accessing the **Block Groups** tab. Each LandView ‘Find’ reverts to the entire dataset. Each Find must identify all layers of Census geography necessary to appropriately identify the specific data subset. In this instance a State identification is needed to identify all Block Groups within the State.

<sup>2</sup> Each LandView search starts from the complete dataset, and there are more than 200,000 Census Block Groups records to be searched. Some LandView Searches are prolonged. **Indexed** fields are searched much more quickly. However, indexing all fields that might interest individual researchers would add immeasurably to data content of LandView. For purposes of the Tutorial, ‘**One Race—White**’ and ‘**Poverty Status in 1999—Families**’ have been specially indexed to speed this search. For more on indexing, see LandView Help, **Indexing LandView Files**.



**Figure 17. The Show on Map Dialogue**

In the dialogue are several display options. In this case, we would like to ‘**Show All Records**’ and we would like to ‘**make invisible**’ those objects not in our Found Set. On the other hand, if we had chosen to make all objects visible, MARPLOT would display the Found Set in **Select** mode and those objects not in the Found Set would display unselected. On **Show on MAP**, we move from the LandView application to MARPLOT. If MARPLOT is not running, the application opens. The map displays the Found Set. Some customizing of MARPLOT’s layers is generally necessary to display the data in an appropriate geographic context. Figure 18 displays a Found Set for the State of Virginia with the State boundary in display mode to provide appropriate context.



**Figure 18. Census Block Groups in Virginia that Meet an Environmental Justice Concern**

From here, we will build on what was presented in the tutorial . . .

First, though, we will need to make two modifications to our previous procedure. We will need our LandView Found Set in Select mode in MARPLOT, and this will require that we display the Found Set with the option in Figure 17 changed so as to not make all other objects invisible. This will cause the Found Set to display in Select mode in MARPLOT. Secondly, since we want a seamless dataset for the State of Virginia, we need to add a term to our search that will insure that Census Block Groups with a zero population are excluded from the search. Were this not done, such groups would meet the definition for a minority population. We will refer to this again as we proceed.

The identified set of map objects in the above example—Census Block Groups—do not remain in MARPLOT memory once the task has been accomplished and MARPLOT has turned to other tasks or is shutdown. If, tomorrow, we wished to show this same relationship, we would need to recreate our ‘Setup a **Find**’ and re-display the Found Set in MARPLOT. There are methods that can place this information in MARPLOT’s memory and have it available for future use<sup>3</sup>. This article will explore copying the objects to a new MARPLOT layer that will contain just the found set. If all possible variations of the variables are examined and each variation is assigned to its own identified layer and if each layer is assigned its own distinctive display attributes, displaying all layers together would create a thematic display of Census Block Groups for the entire State of Virginia.

There are two MARPLOT Export formats—an **MIE** file and a **Simple Point Format**. Here, our concern is with the MIE files, since this fully replicates the boundaries of each Census Block Group. To export MARPLOT objects, the objects must either be **Selected** or be included in a MARPLOT Search Collection. Our method of showing the Found Set in MARPLOT places these objects in **Select** mode. The MenuBar command **File/Export . . .** creates the MIE file in a location of our choosing. We will name this file as *both.mie*, this to indicate that both minority status and poverty are concerns. During this procedure, we will create five similar files. Figure A. displays the names of the five files.



both.mie	454 KB	MIE File
minority.mie	1,501 KB	MIE File
No Test.mie	18,877 KB	MIE File
poverty.mie	1,056 KB	MIE File
zero.mie	7 KB	MIE File

**Figure A. The Five MIE files to be Created in this Exercise.**

An MIE file is a text file and it can be opened and edited with a text editor. MS Word Pad is suggested as having the necessary functionality. Do not use MS Word or Word Perfect. Such word processing applications frequently distort text files in a manner that makes them unworkable in MARPLOT. Figure B. displays *both.mie* as opened with WordPad. An MIE file displays three lines of **Word Wrapped** text for each map object. Users interested in the subject should consult MARPLOT Technical Documentation. However, our concern here is only with the three items of highlighted text shown on the second line.

---

<sup>3</sup> Users interested in an alternate methodology should explore MARPLOT MenuBar **List/Copy** (the selected objects) to **Search Collection** and **Save Collection . . .**

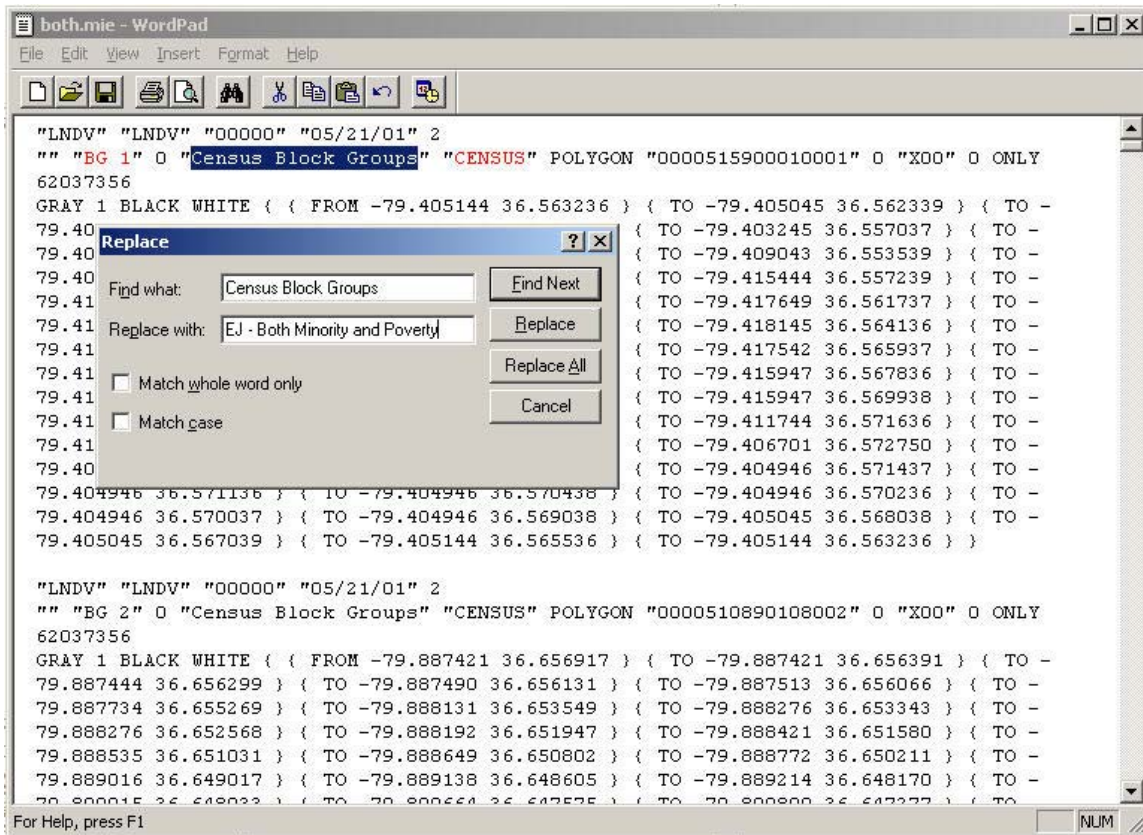


Figure B. The *both.mie* File Unedited

The first term, “BG 1” is the name of the map object, and this remains unchanged. The second term, “Census Block Groups” is the name of the layer containing the exported objects. The third term, “Census”, is the name of the map containing the exported objects. We are about to edit this file, and, in the process, we will create a new file which, on MARPLOT Import, will recreate these map objects on a new layer and a new map.

With **Census Block Groups** in Select mode, open the **Edit/Find/Replace** dialogue. The ‘**Find what:**’ is automatically entered. For ‘**Replace with:**’, enter **EJ – Both Minority and Poverty**. The process is easier if your work completely inside of the quotation marks, which must remain. When ready, do a **Replace All**.

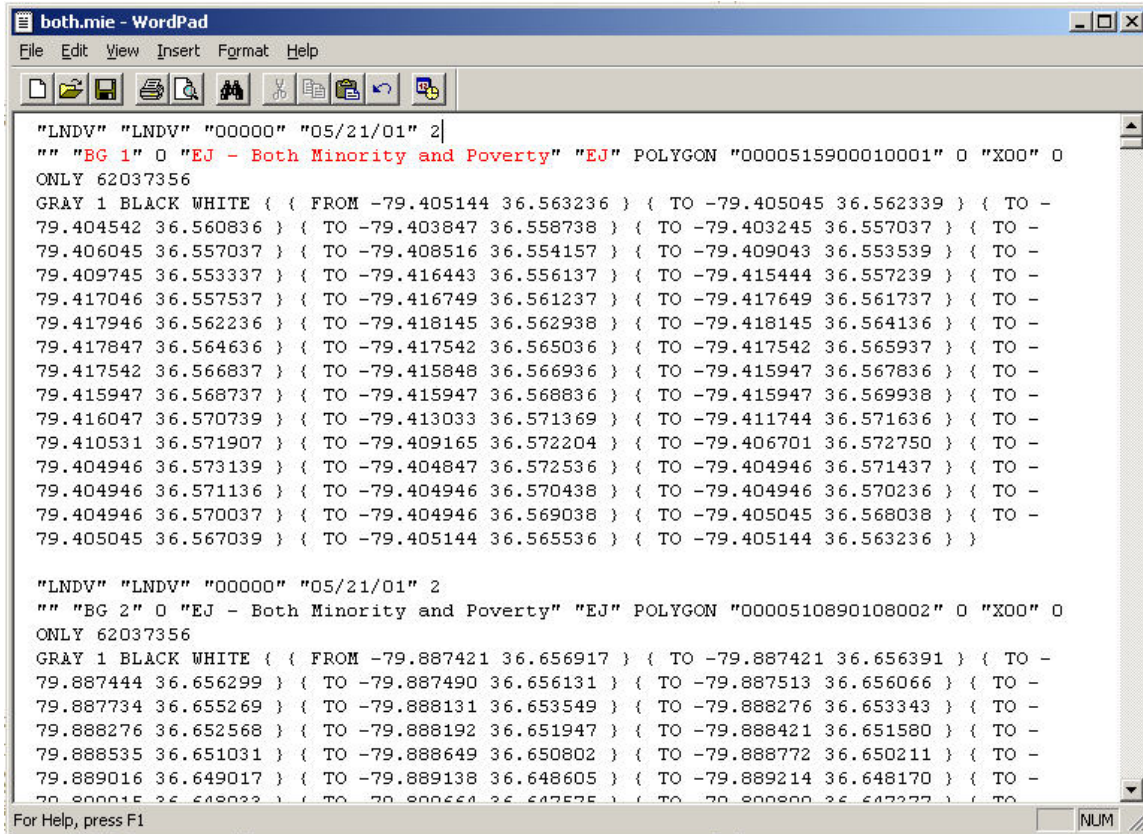


Figure C. The Edited *both.mie* File

Similarly, replace **Census** with **EJ**, the name of our new map containing the EJ layer set. We have now edited the MIE file to create both a new layer name and a new map name for each Census Block Group. The edited file is shown in Figure C.

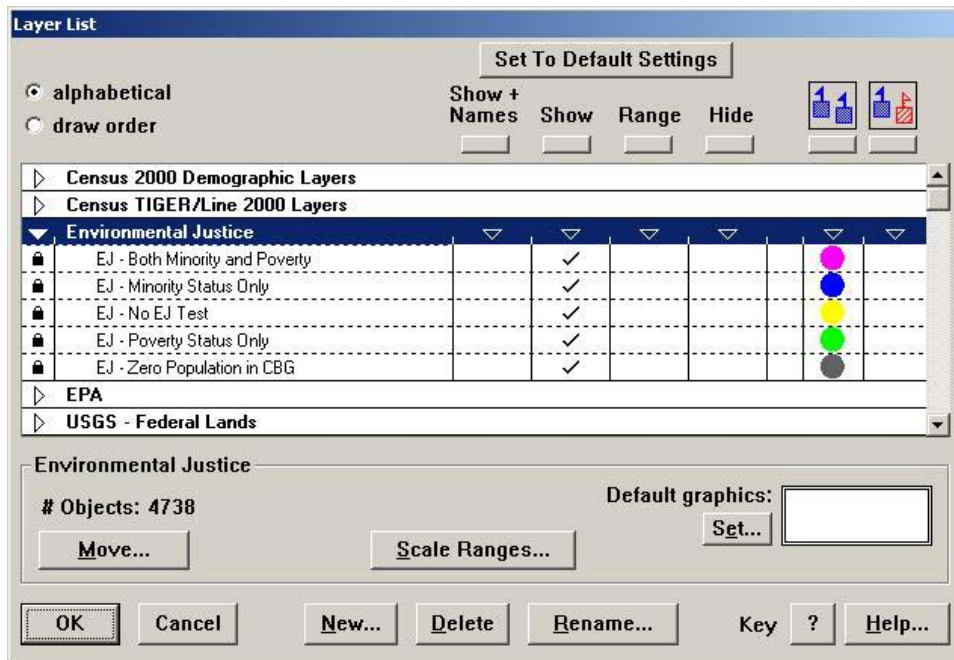
**Save and Close** the file. Do a **File/Import . . .**

This same process must be completed for each of the identified MIE files. The table below provides the parameters needing for creating the Found Sets for each layer to be created in MARPLOT. As an absence of population within a Census Block Group can skew set definitions, the Zero Population search needs to be included. An examination of the separate layer definitions will show that all possible cases are included. The total objects on all layers should equal the total of Census Block Groups within the State.

MARPLOT Layer	Population	Minority	Poverty	File Name
EJ – Both Minority and Poverty	> 0	<50.00	>20.00	<i>both.mie</i>
EJ – Minority Only	>0	<50.00	<=20,00	<i>minority.mie</i>
EJ – Poverty Only	>0	>=50.00	>20.00	<i>poverty.mie</i>
EJ – No CBGs meet Tests	>0	>=50.00	<=20.00	<i>no test,mie</i>
EJ – Zero Population	0			<i>zero.mie</i>

Table A. Parameters Defining the Contents of Each EJ Layer

When all edited MIE files have been **Imported** back into MARPLOT, **Open List/Layer List . . .** You should show the five newly created layers grouped alphabetically under “EJ”. You can create a new **Group** called **Environmental Justice** and move the layers into the Group. Use the **Graphic Override** mode, **blue-blue**, to customize the layers as shown in Figure D.



**Figure D. The Environmental Justice Layer Group**

When all files in the Group are place in **Show** mode, we can return to the MARPLOT screen with a Thematic representation of Environmental concerns in the State of Virginia. This is shown in Figure E.

Aside from creating a thematic map display for the State of Virginia, we have accomplished a second purpose which can be just as valuable as a technique. We can now go to any mapped point in the State of Virginia and immediately tell if that site is an Environmental Justice concern. In List/Layer List . . . , place the list in Draw Order and move all Environmental Justice layer to the bottom of the draw order. We can place these layers in Hide mode and do an Address Search. On plotting the address to the map, we now place the Environmental Justice layers in Show mode. From the position of the Focus Point and the EJ image underlying it, we know immediately if the site is a concern.

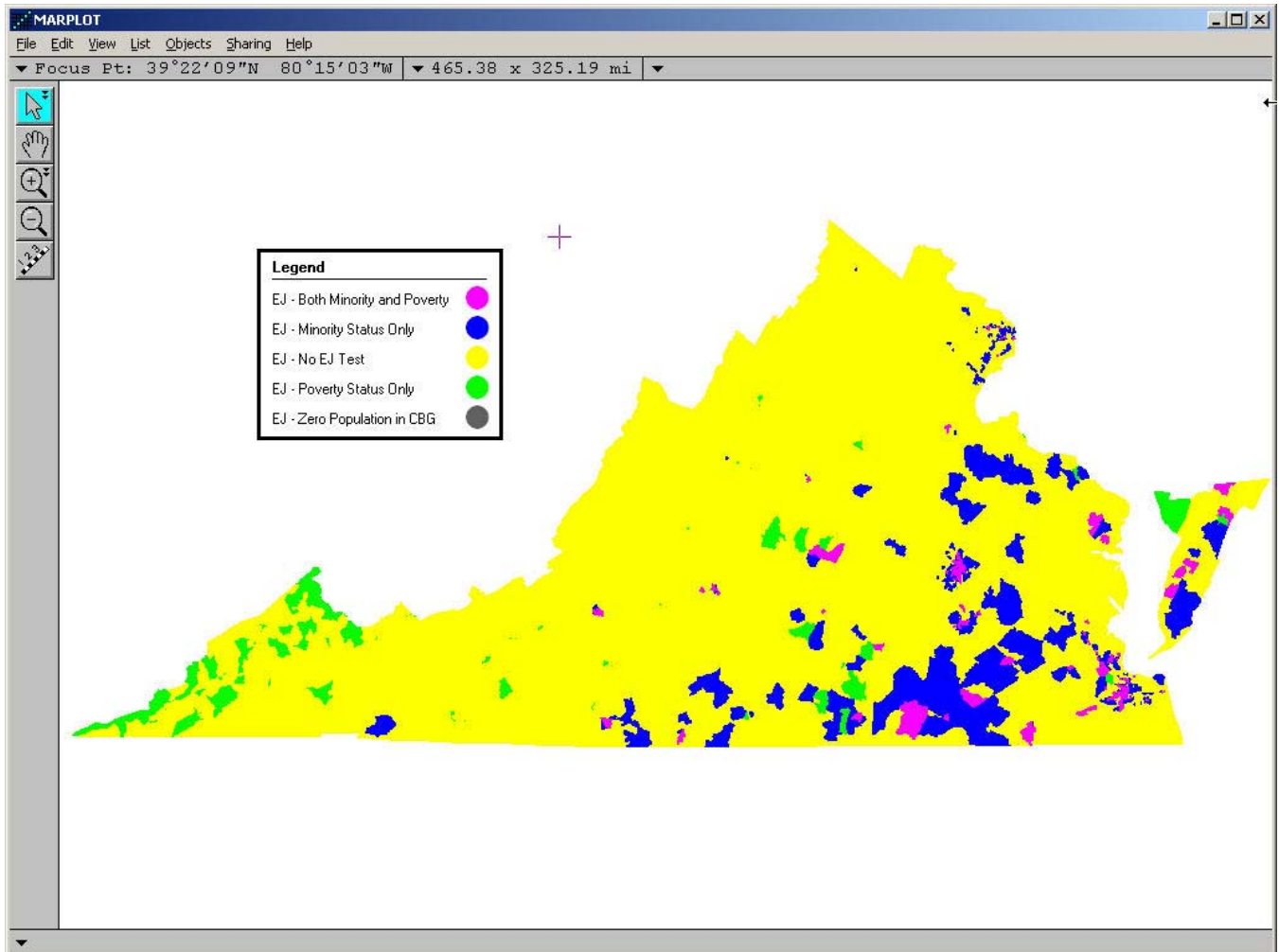


Figure E. A Thematic Map of Environmental Justice Concerns for the State of Virginia

The following is an example of extracting Lat/Long data from a larger polyline or polygon to create a new map object.

## Populated Coastline Methodology

Problem: Determine the population living within five miles of the Florida coastline defined by the Latitude/Longitude pairs—27.455, -80.280 and 28.144, -80.581.

1. Create a new MARPLOT layer called “Florida Coastline”. Creating a new layer places the layer in active mode with the map drawing tools available. Use MenuBar View/Go to Lat/Long . . . to go to point defined by the initial Latitude/Longitude pair at scale of 10 miles. Mark the point. Create a new arbitrary four point polyline called, “Coastline 27.455, 80.280”, Color = pink and Line = double. Export the object as *coastline.mie*. After exporting, the polyline can be deleted. It has served its purpose of creating a shell to contain lat/long data that will be obtained in the next step.
2. In the general area of the marked point, select the closest segment on the polygon object that defines Florida. Using Objects/Object Segments . . . , determine the number that identifies the segment. In this case, it is segment 2125 of 3796 segments. Similarly, locate the segment number closest to the second latitude/longitude pair. It is segment 2066. This means that the series of lat/long pairs that define the Florida polygon proceed from Segment 2066 in order to Segment 2125. We have established the text order in the MIE file for Florida.
2. Export the State of Florida as *florida.mie*. Open the file with WordPad. The following process is somewhat easier if Word Wrap is turned on. Use Edit/Find to find, “28.14”<sup>1</sup>. Your initial Find may not match the designated lat/long pair Use ‘Find Again’ (F3) to scroll through the latitude/longitude pairs until a best match is found. Use Format/Fonts to place this found vertex in **Bold** text for easy recognition. Similarly locate, “27.45” and its best matched lat/long pair.. Place this vertex in **Bold**. Ignoring that part of the text that reads, “{ To ”, select the text bounded by the two **Bolded** texts and do a ‘Copy’. This graphic is shown below.
3. Open *coastline.mie* with WordPad. Select and delete all latitude/longitude data immediately following the text, “**From** ”. Do not include the final bracket as, “}”. Replace this selected text with the text as copied in Paragraph 2., above. This is shown below. Save the edited document.
4. Import the edited *coastline.mie* into MARPLOT. This is shown below.
5. With this new coastline polyline in ‘Select’ mode, use Edit/Make New Polygon . . . to create a new polygon of radius “5 miles” about the polyline. This polygon can be used to capture containing Census Blocks and to determine population information in LandView. The new coastline polygon resides on the Temporary

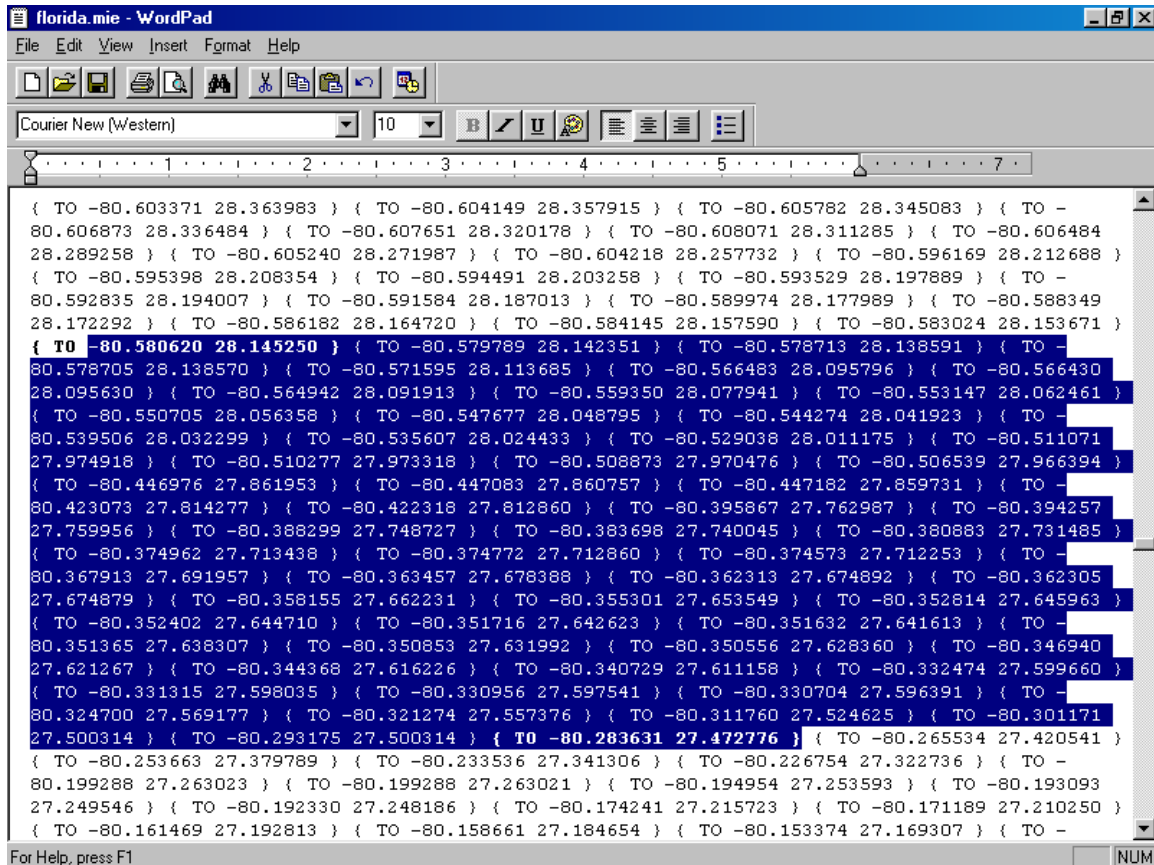
---

<sup>1</sup> While our initial search is for Latitudes defined to two decimal places, we could be told that this value is not ‘found’. It could be necessary to expand our search up or down by several hundredths. In this case, we would expand our search to 28.15 and/or 2813.



layer in MARPLOT. If it is to be saved for future reference, it needs to be moved to a permanent layer.

6. The answer, as shown below, is 263, 746.
7. This method can be applied to saving a portion of any larger polygon/polyline as a new polyline.



### Select and Copy the **Bolded** Text

```
"USER" "USER" "00000" "06/12/03" 2
"" "Coastline 27.455, 80.280" 0 "Coastline" "User's Map" POLYLINE "BBODE01E60FB0001" 1263771
"X00" 0 ONLY 16777216
PINK 2 BLACK WHITE { FROM -80.350114 28.266390 } { TO -80.094485 28.034531 } { TO -79.784322
28.157989 } { TO -79.630944 28.432004 } }
```

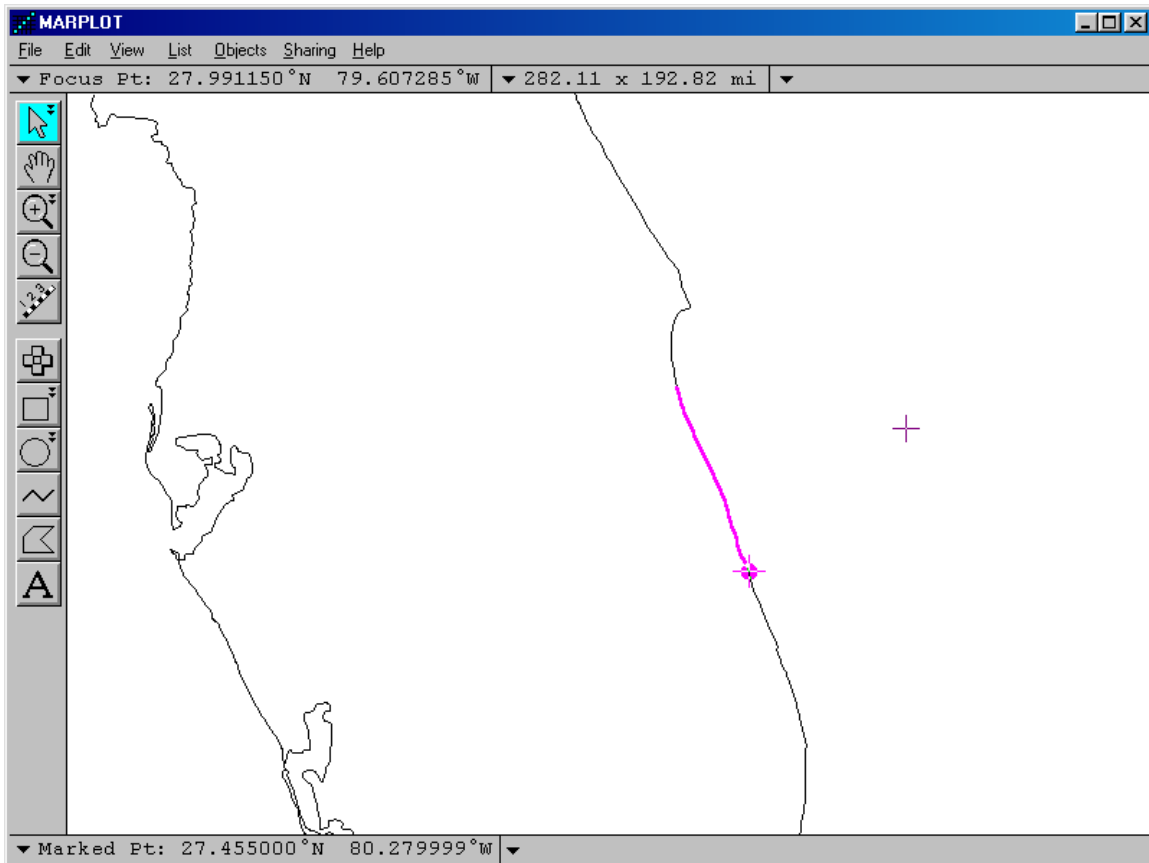
Replace the lat/long data in the Shell file with the Extracted Data from Florida

```

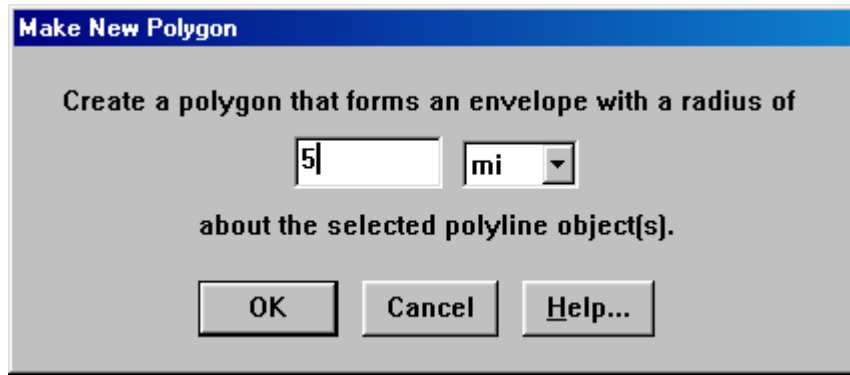
"USER" "USER" "00000" "06/12/03" 2
"" "Coastline 27.455, 80.280" 0 "Coastline" "User's Map" POLYLINE "BBODE01E60FB0001" 1263771
"X00" 0 ONLY 16777216
PINK 2 BLACK WHITE { ( FROM -80.580620 28.145250 ) ( TO -80.579789 28.142351 ) ( TO -80.578713
28.138591 ) ( TO -80.578705 28.138570 ) ( TO -80.571595 28.113685 ) ( TO -80.566483 28.095796 )
( TO -80.566430 28.095630 ) ( TO -80.564942 28.091913 ) ( TO -80.559350 28.077941 ) ( TO -
80.553147 28.062461 ) ( TO -80.550705 28.056358 ) ( TO -80.547677 28.048795 ) ( TO -80.544274
28.041923 ) ( TO -80.539506 28.032299 ) ( TO -80.535607 28.024433 ) ( TO -80.529038 28.011175 )
( TO -80.511071 27.974918 ) ( TO -80.510277 27.973318 ) ( TO -80.508873 27.970476 ) ( TO -
80.506539 27.966394 ) ( TO -80.446976 27.861953 ) ( TO -80.447083 27.860757 ) ( TO -80.447182
27.859731 ) ( TO -80.423073 27.814277 ) ( TO -80.422318 27.812860 ) ( TO -80.395867 27.762987 )
( TO -80.394257 27.759956 ) ( TO -80.388299 27.748727 ) ( TO -80.383698 27.740045 ) ( TO -
80.380883 27.731485 ) ( TO -80.374962 27.713438 ) ( TO -80.374772 27.712860 ) ( TO -80.374573
27.712253 ) ( TO -80.367913 27.691957 ) ( TO -80.363457 27.678388 ) ( TO -80.362313 27.674892 )
( TO -80.362305 27.674879 ) ( TO -80.358155 27.662231 ) ( TO -80.355301 27.653549 ) ( TO -
80.352814 27.645963 ) ( TO -80.352402 27.644710 ) ( TO -80.351716 27.642623 ) ( TO -80.351632
27.641613 ) ( TO -80.351365 27.638307 ) ( TO -80.350853 27.631992 ) ( TO -80.350556 27.628360 )
( TO -80.346940 27.621267 ) ( TO -80.344368 27.616226 ) ( TO -80.340729 27.611158 ) ( TO -
80.332474 27.599660 ) ( TO -80.331315 27.598035 ) ( TO -80.330956 27.597541 ) ( TO -80.330704
27.596391 ) ( TO -80.324700 27.569177 ) ( TO -80.321274 27.557376 ) ( TO -80.311760 27.524625 )
( TO -80.301171 27.500314 ) ( TO -80.293175 27.500314 ) { TO -80.283631 27.472776 } )

```

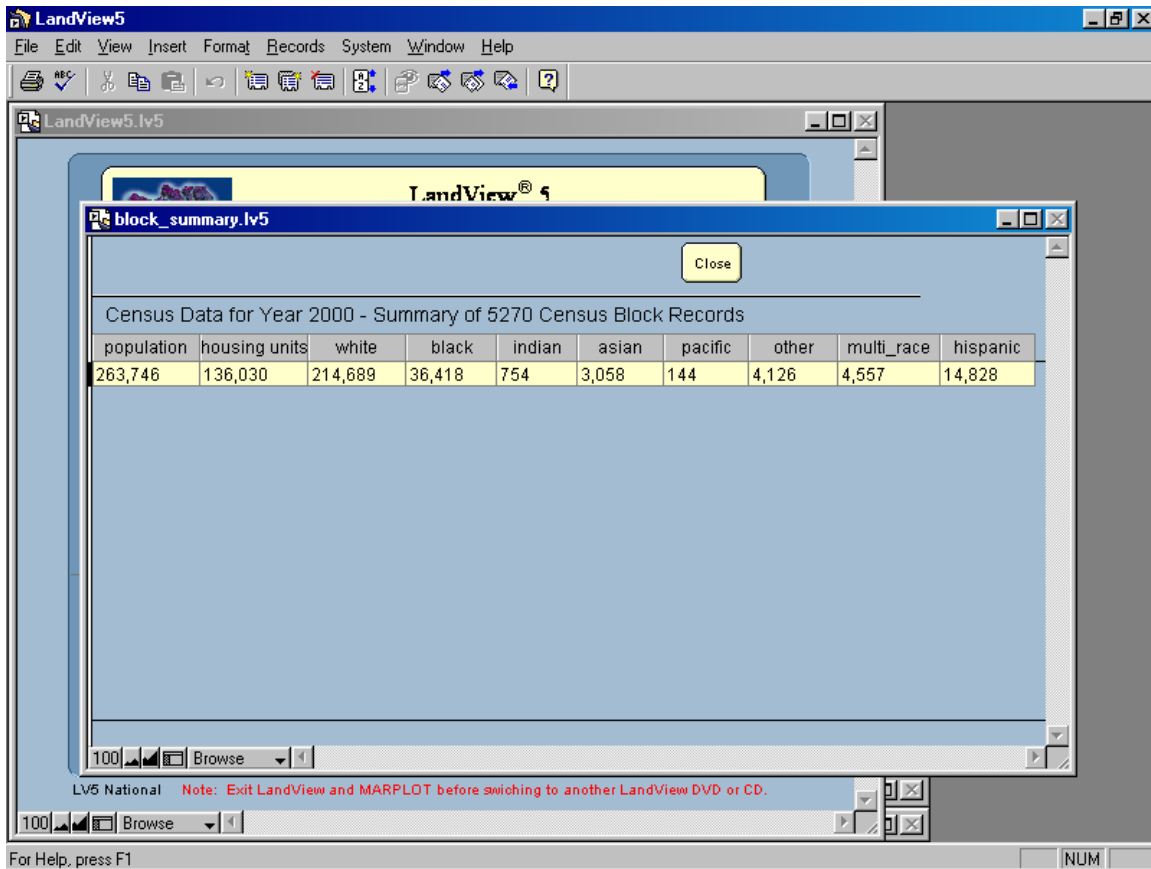
The Edited MIE File to be imported back into MARPLOT



The Coastline map object super-imposed on the Florida State Boundary Object



Making the polyline Coastline Map Object into a Polygon



LandView Population Statistics from Block Points within the Coastline Polygon

## Importing Spatial Data into LandView

*Edward J. McFaul*  
*U.S. Geological Survey*

The LandView DVD product contains 36 different layers of spatial data derived from databases at the Census Bureau, EPA, and USGS. However, users often have a need to add their own spatial data layers to be used in conjunction with those already provided. The LandView software allows the user to add up to five new spatial data layers with no programming or additional software required. The source of these new layers can be something as simple as a three-column spreadsheet, where each row represents a map point and contains a latitude, longitude, and a name. For more involved spatial data types such as lines (e.g., roads) or polygons (e.g., county boundaries), LandView includes a utility program for converting spatial data in the form of Shapefiles into a format that can be imported into LandView's mapping module called MARPLOT (developed by NOAA)

### Sources of Spatial Data

There are many sources of spatial data on the Web, including the Spatial Data Clearinghouse provided by the federal Geographic Data Committee ([www.fgdc.gov](http://www.fgdc.gov)). Another excellent source of a wide variety of spatial data is the National Atlas Website, developed and maintained by the USGS ([www.nationalatlas.gov](http://www.nationalatlas.gov)). This site provides a convenient means of examining the metadata associated with each spatial data layer and, if desired, downloading those data in several different formats.

### Importing "Point Data" to LandView

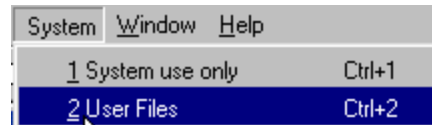
The simplest type of spatial data is point data. A layer of this type consists of a series of points, each defined by a latitude, longitude and a name. For the purposes of this tutorial, we will use a map layer from the USGS National Atlas called the *Significant and Historic Earthquakes*. We will use this easily downloaded data and step through the process of importing it into LandView to form a new data layer and a corresponding data file, both of which can be search and manipulated.

Begin by downloading the *Significant and Historic Earthquakes* map layer in Shapefile format. This will result in a file named "quksigx020.tar.gz" on your hard disk. Using one of the standard compression utilities (e.g., WinZip, PKZip, etc.), uncompress this file into an intermediate file named "quksigx020.tar." Using the utility software once again, uncompress this intermediate file into the four final files for this map layer, three of which ("quksigx020.dbf," "quksigx020.shp," and "quksigx020.shx.") comprise the Shapefile format. A fourth file, "quksigx020.txt," will also be created that contains the metadata for this layer.

### The LandView User Files

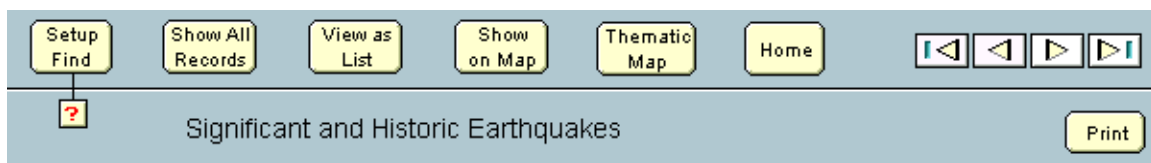
The LandView software provides five separate "generic" data files for importing new spatial data records. Once imported, the display of the records in any of these files can be customized to reflect field names that are appropriate for the imported data. The software also allows the user to create map layers from these files and automatically links the objects in these map layers to their corresponding records in the data files. These new map layers can be displayed and manipulated, just as with the 36 other data layers that come "prepackaged" with LandView.

To access the user files, startup LandView and click on the "System" menu and then select the "User Files" option, as follows:



You will be presented with a window displaying the five LandView User Files (“File\_01.lv5,” “File\_02.lv5,” ... “File\_05.lv5”) with an “Open” button adjacent to each one. Before opening a user file, click on the “Help” button to display several help screens that summarize functions that will be performed in this tutorial. After browsing these help screens, click on the “Return to User Files” button.

To display the data layout for “File\_01.lv5,” click on the “Open” button to the right of this file. This will display the generic data layout for “File\_01.lv5” that we will soon customize to reflect the actual data that we will be importing, in this case occurrences of significant and historic earthquakes. To begin the customization, click on the LandView “System” menu and then select the second option named “Customize this file.” This will bring up a display screen where the file and field information for “File\_01.lv5” can be changed. Change the value in the top field labeled “File Description” from its default value of “File\_01.lv5 Description” to the value “Significant and Historic Earthquakes.” Now click on the “Return to User File” button in the top right corner to see the effect of this change. Notice that the title at the top of the data layout for “File\_01.lv5” now reads “Significant and Historic Earthquakes” as shown below. We will customize other parts of this data layout a bit later.



## Metadata

It would be useful at this point to examine the metadata file (“quksigx020.txt”) that provides “data about the data” that we are going to use in our exercise. Not only is a wealth of background information provided (e.g., this database reflects historic earthquakes in the U.S., Canada and Mexico), but the metadata also contains detailed information about the specific data fields within the database. For example, in the “Entity and Attribute Information” section of the metadata, we can see that the STATE and LOCATION fields are “text” fields, while the other fields such as latitude, longitude, depth, etc., are all numeric. Note that the field named “YEAR” is actually a date field and might warrant a little different treatment than the other numeric fields. As you can see, metadata is extremely useful in understanding what a database is all about and how the specific information in that database can be utilized.

## Examining the Data

Before we actually import the data records that we have downloaded and uncompressed, we must first determine exactly what fields from these data records are of interest to us. We are limited by the record structure of the LandView generic data files to 24 data fields per record. The metadata can be of great help here in helping select the fields to actually import into the generic file (“File\_01.lv5”).

In addition to using the metadata, we can take a detailed look at the data records before actually importing them. We do this by using the import function provided by the LandView software. This functionality allows us to open the file we wish to import and then allows us to “step through” the incoming data field names as well as the actual data records themselves.

Since it is part of a Shapefile format, the data file to be imported is a dBase file structure and is named “quksigx020.dbf.” To examine the fields that constitute the records in this file, click on the LandView “File” menu at the top left of your screen and then select the “Import Records” option. Navigate using the “Open File” window to the dBase file (“quksigx020.dbf.”) and open it. This will then open another window labeled “Import Field Mapping” with the various field labels from the dBase file in the left pane and the generic field names from the LandView “File\_01.lv5” in the right pane.

### Selecting the Data

⚡ When your cursor is in the right pane, a special icon appears, allowing you to drag any field name in that pane up or down. By moving these fields up and down, they can be setup to accept the data that will be subsequently imported into “File\_01.lv5.” To see some of the actual data that will imported, use the “Scan Data” buttons located below the left pane. For example, clicking once on the right-hand “Scan Data” button will simulate (but not actually perform) the importing of the first record. Doing this reveals that the “X” and “Y” fields are actually the latitude and longitude fields, respectively, from the earthquake record. Therefore, we want to use the special icon and align the “longitude” field with “X” field and the “latitude” field with “Y” field. Once these fields are aligned, click in the center column to change the “dot” to an “arrow” indicating that the import is enabled for these fields. Finally, align the “LOCATION” field from the incoming dBase file with the “name” field of “File\_01.lv5.” We have now aligned the three fields required by the import operation, as follows:

```

Y  || → latitude
X  || → longitude

```

```

LOCATION || → name

```

Once the required “latitude,” “longitude,” and “name” fields have been aligned with their appropriate imported data fields, we can look to see what other fields might be of interest. Although these additional fields are optional, they often add important informational content to the records ultimately imported into “File\_01.lv5.” For example, it would probably be useful to include the “STATE” field so as to be able to search for all of the earthquakes in a given state. Likewise, the “DEPTH,” “DEATHS,” “DAMAGE,” “MAG,” “MMI,” and “YEAR” fields would most likely prove useful. Thus, we should align these additional fields with appropriate fields in “File\_01.lv5” depending on the types of data (text, numeric, or date).

We must now align these additional fields with their appropriate fields in “File\_01.lv5.” The particular order is not critical, but you should make careful note of the exact assignments, as we will need this information in a later step. For the purposes of this example, the following assignments will be made:

```

STATE  || → text1
      Y  || → latitude
      X  || → longitude
DEPTH  || → num1
DEATHS || → num2
DAMAGE || → num3
      MAG || → num4
      MMI || → num5
LOCATION || → name
      YEAR || → date1

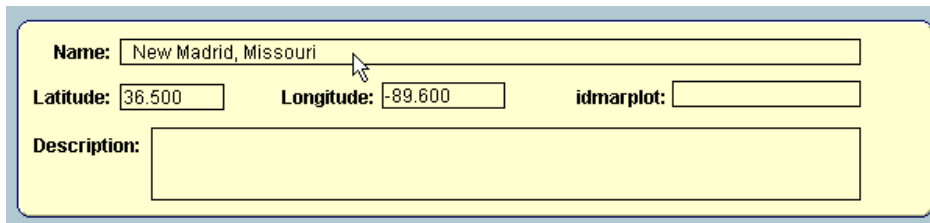
```

## Importing the Data

It is now time to actually import the data. Before doing so, check to see that there are noted only ten “import arrows” turned on, corresponding to the ten fields noted above. If this is the case, click on the “Import” button at the lower right of the window to begin the actual data import operation. After a few seconds, you should see a count of 1,286 records imported into “File\_01.lv5,” indicated by the number displayed directly below the “Rolodex” icon on the upper left panel. You can click on the upper and lower portions of this icon to step forwards and backwards through the newly imported records. (Holding down the “Ctrl” key and using the up and down arrows will perform the same navigation).

## Verifying the Data

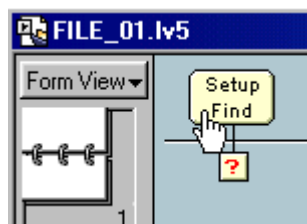
As discussed earlier, there are three fields in every record (“latitude,” “longitude,” and “name”) that *must* have values in them in order to be able to create a corresponding map layer. We just imported 1,286 records, and, at first glance, all appears well, as indicated by the fields near the top of the “File\_01.lv5” data layout that look like the following:



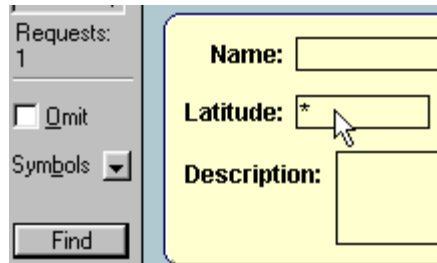
A screenshot of a data record form for 'File\_01.lv5'. The form has a yellow background and a blue border. It contains the following fields: 'Name:' with the value 'New Madrid, Missouri'; 'Latitude:' with the value '36.500'; 'Longitude:' with the value '-89.600'; and 'idmarplot:' which is empty. Below these fields is a larger 'Description:' field, also empty. A mouse cursor is pointing at the 'Name' field.

Clicking on the lower half of the Rolodex icon a few times advances through the first several records and every record seems to have a valid “latitude,” “longitude,” and “name” field. However, we must ensure that there are no blank entries in any of these three critical fields anywhere in the file. We could step through the entire file, one record at a time, visually checking these fields, but there is an easier way. Remember that we now have created a fully searchable database file (“File\_01.lv5”) into which we just imported 1,286 records. The underlying software for this database is FileMaker Pro, which has a quite flexible set of search and display functions. We will use one of these functions, the “Find,” to locate any blank entries in our three critical fields.

Let’s first examine the “latitude” field. To do this, click on the “Setup Find” button at the top of the data layout, as in the following:



The small, red “question mark” button provides several help screens for setting up a “Find” operation, which you may examine if you’d like. Setting up a “Find” will blank all of the fields on data layout and allow us to select a field to examine. Place your cursor in the field next to the label “Latitude:” and then enter an asterisk (\*) in that field so that it appears as follows:



When an asterisk (\*) is used in a “Find” operation, the software searches this field in every record in the file for any non-blank values, and then displays the number of records that meet the search criteria. Click on the “Find” button on the gray panel on the left to initiate this search and then notice the resulting count of “Found” records beneath the Rolodex icon. It should appear as follows:



The fact that every one of the 1,286 records was found to have a non-blank “latitude” value means that this field is fine and ready for subsequent processing.

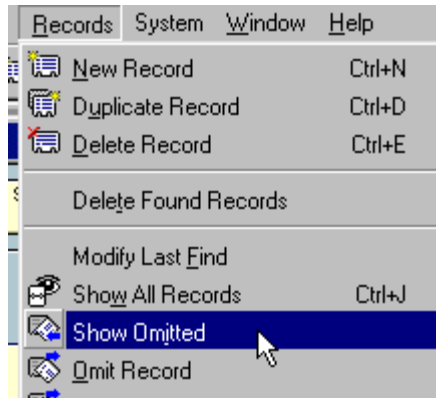
Now, using the same procedure, verify that the “longitude” field contains no blanks. After searching for asterisks in this field, the count of found records should be identical to that found when searching the “latitude” field. Finally, use the same procedure and search the “name” field for blanks and you should get the following result:



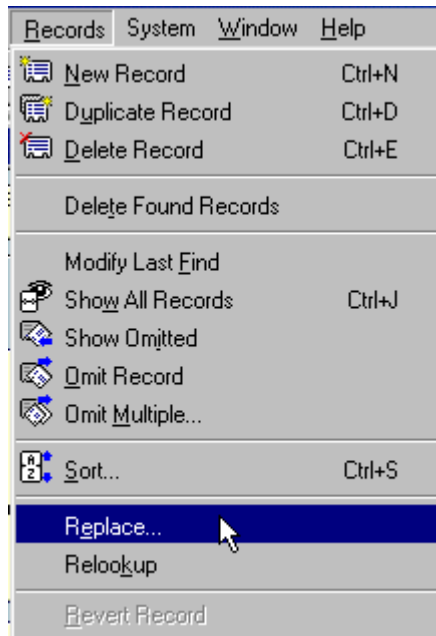
Notice that we only found 1,087 records with non-blank values, meaning there are 199 records with blanks in their “name” field. This will not do, as the map layer that we will be ultimately creating requires a name for every point or object placed in that layer. Thus, we must put some non-blank value in these records. Fortunately, the software provides a convenient way to do this.

First, we must show the records that contain blank “name” fields. This is done by selecting the “Records” menu followed by the “Show Omitted” option, as follows:

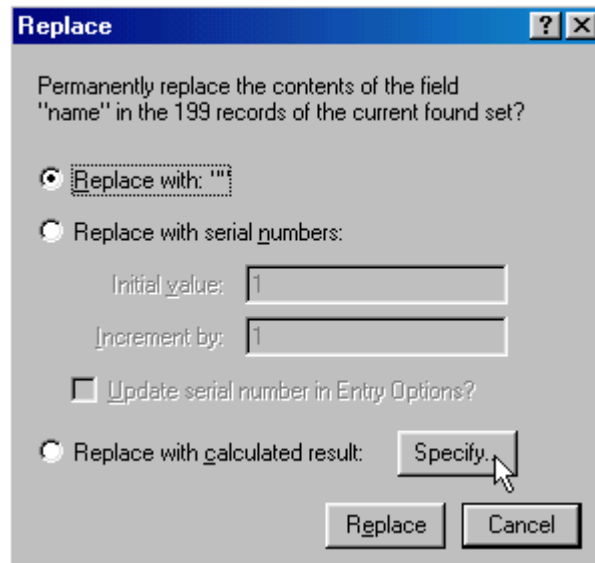




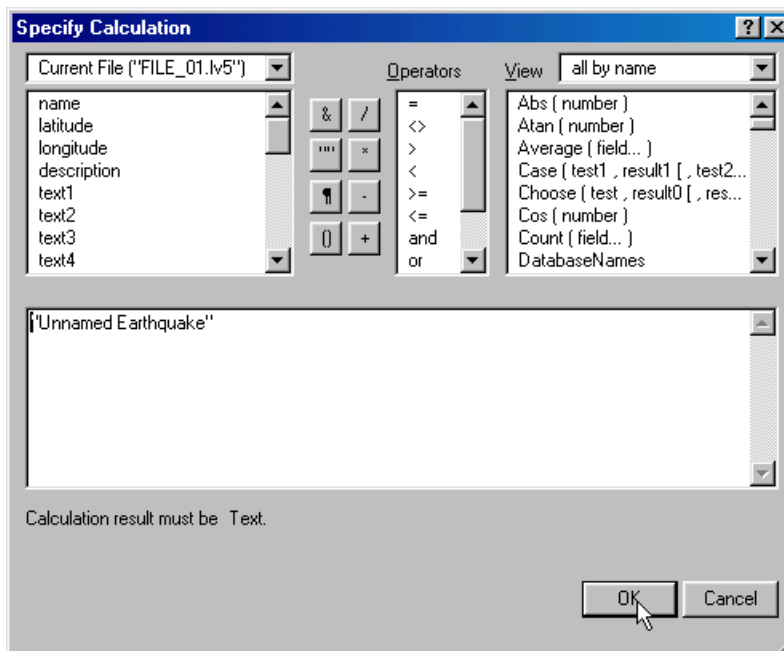
This will then show the 199 records containing the blank “name” fields. To correct this situation, we first click in the “name” field (which currently is blank) and then once again click on the “Records” menu, but this time select the “Replace” option, as follows:



Selecting this option will bring up the “Replace” dialog window where the actual value to be replaced in the 199 records will be entered. Notice that the first radio button in this dialog window is selected, indicating that the field in question (“name”) will be replaced with something that will be specified inside of a pair of quotes. To actually specify that “something,” click on the “Specify” button, as in the following:



This will bring up the “Specify Calculation” dialog window. In the lower white entry box in this window, first type a double quote mark (“) followed by the text “Unnamed Earthquake” and then another double quote mark (“). The window should look like the following just before you click the “OK” button:



After clicking the OK button, the “Replace” dialog window will again appear, at which point a final click on the “Replace” button will tell the software to place the character string “Unnamed Earthquake” in the “name” field of the 199 records currently in the “Found” set. Do this and then step through a few records by use of the Rolodex icon to ensure that that they all now have non-blank values in their “name” fields. Finally, click on the “Show All Records” at the top of the data layout, as in the following:



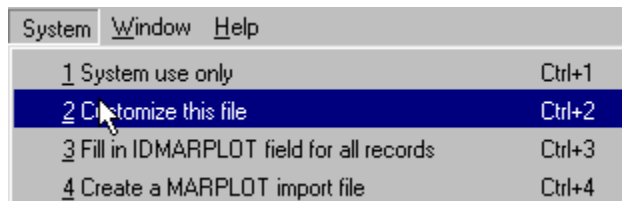
This will once again bring all 1,286 records back into play, including the 199 that we just modified. All records now have a non-blank value in their “name” fields.

### Customizing the Data Layout

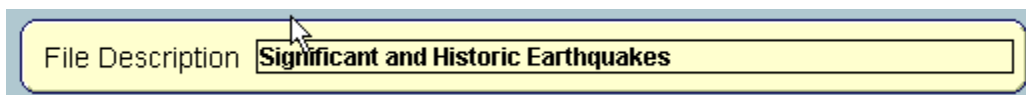
Notice that there are three groups of “generic” fields in “File\_01.lv5” representing text, numeric, and date fields, respectively. There is also a fourth group labeled “check box” for accommodating imported data that is represented by a binary or “yes/no” value. For the moment, we will ignore these “check box” fields.

Once the records have been imported into the default data layout for “File\_01.lv5,” it is time to adjust the default field names (“text label 1,” “number label 1,” etc.) to reflect the type of data that has actually been imported. For example, “text label 1” should be labeled “State” since this is the type of data it now contains.

To accomplish this, click on the LandView “System” menu and then select the “Customize this file” option, as shown below. This will bring up a display screen where the file and field information for “File\_01.lv5” can be changed.



Begin by changing the value in the top field labeled “File Description” from its default value of “File\_01.lv5 Description” to the value “Significant and Historic Earthquakes.” Now click on the “Return to User File” button in the top right corner to see the effect of this change, as follows:



Repeat this process, changing each of the appropriate field names so that the results look as shown below. Note that no changes are made to any of the “check box labels,” as none of these fields will be used in the import process.

Text Field 1	State
Text Field 2	text label 2
Text Field 3	text label 3
Text Field 4	text label 4
Text Field 5	text label 5
Number Field 1	Depth of Quake
Number Field 2	Deaths from Quake
Number Field 3	Damage from Quake
Number Field 4	Magnitude of Quake
Number Field 5	Modified Mercalli Intensity
Date Field 1	Year
Date Field 2	date label 2
Date Field 3	date label 3
Date Field 4	date label 4
Date Field 5	date label 5
Check Box Field 1	check box label 1
Check Box Field 2	check box label 2
Check Box Field 3	check box label 3
Check Box Field 4	check box label 4
Check Box Field 5	check box label 5

There are two more fields that need to be examined. The first is the “marplot layer name” which reflects the name of the data layer that we are about to create. Change this field to “Earthquakes” and this will be the layer name for all of the earthquake locations we will soon import into MARPLOT.

The second field is the “marplot map name” which defines the folder (named “\USERMAP” on your hard disk) where the map layer information will be saved after it has been imported into MARPLOT. Leave this second field alone, as this is a good place to have MARPLOT save its map information. Now, the fields should look as follows:

marplot layer name	Earthquakes
marplot map name	User's Map

We have now finished all of the field labels for the “File\_01.lv5” data layout. Click on the “Return to User File” button at the top right of the screen to see how they look. All of the fields that we have selected to import should now have appropriate field labels.

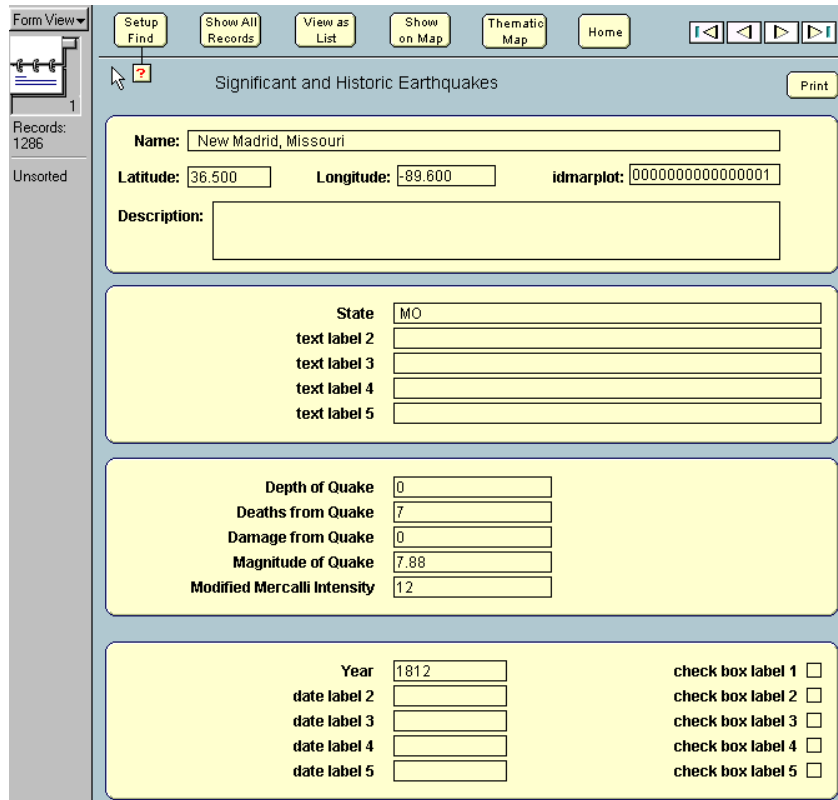
### Populating the MARPLOT link field

LandView consists of two basic processing modules--the database module (developed by EPA) and the mapping module (developed by NOAA). The database module manages the records associated with objects on a map layer, while the mapping module (MARPLOT) actually plots the objects from the map layer. The link field between these two modules is named “idmarplot” and consists of a unique, 16-character alphanumeric field. This link field provides the means by which users can readily switch between the database and mapping modules of LandView. But before this can occur, this link field first must be populated with a unique value for every record in the file. Fortunately, this can be accomplished

very easily by simply clicking on the “System” menu and then choosing the “Fill in IDMARPLOT field for all records” option, as shown below:



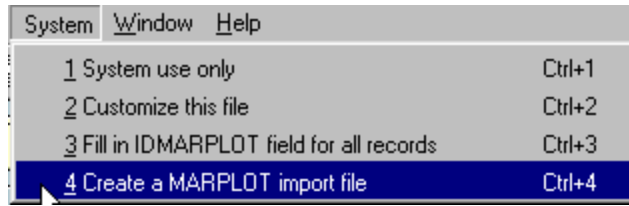
A few seconds after selecting this option you will notice that the “idmarplot” field has been populated with a unique value for every one of the 1,286 records in “File\_01.lv5.” At this point, the data layout for “File\_01.lv5” should appear as follows:



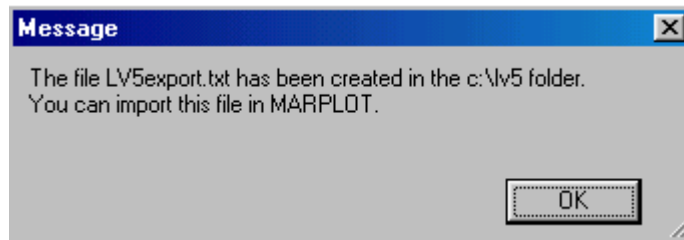
Notice that after populating the MARPLOT link field, the Rolodex icon on the left panel is pointing to the last record in the database (number 1,286) and the data values for this record of an earthquake in New Madrid, Missouri are displayed on the customized data layout.

### Creating the MARPLOT import file

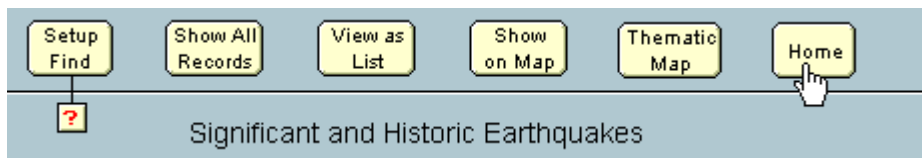
The final step in the process of importing our data representing the significant and historic earthquakes is to create the corresponding map layer for these points. To do this, first click on the “System” menu and then choose the “Create a MARPLOT import file” option, as shown below:



After this option is chosen, the software will use the information specified in the previous steps and create a file named “LV5export.txt” in the lv5 folder, as evidenced by the following message:



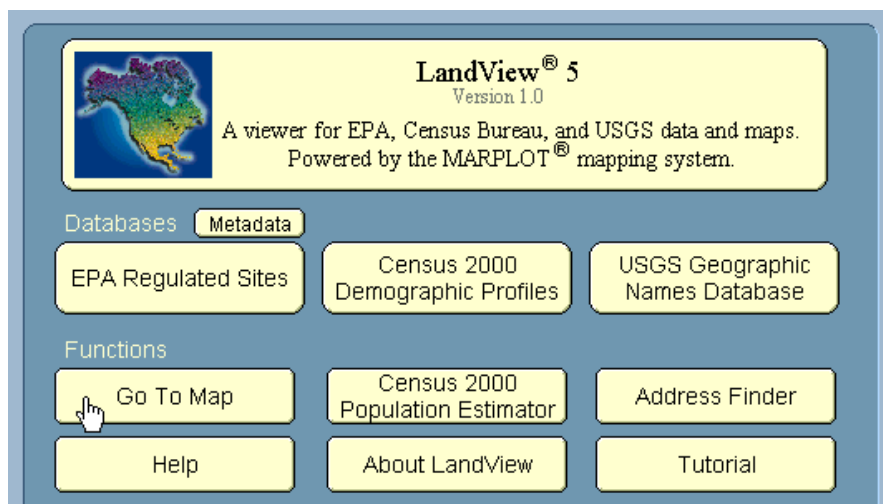
This file must now be imported into MARPLOT to actually create the map layer and store the resulting map information in the folder named “USERMAP” on the hard disk (MARPLOT compresses this map information into several very compact binary files). To perform this import, the MARPLOT software must be invoked. The easiest way to do this is to first click the “Home” button at the top of the data layout, as follows:



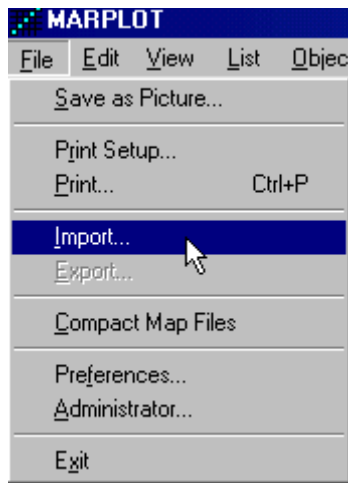
Now click the “Home” button at the top of the “LandView User Files” screen, as follows:



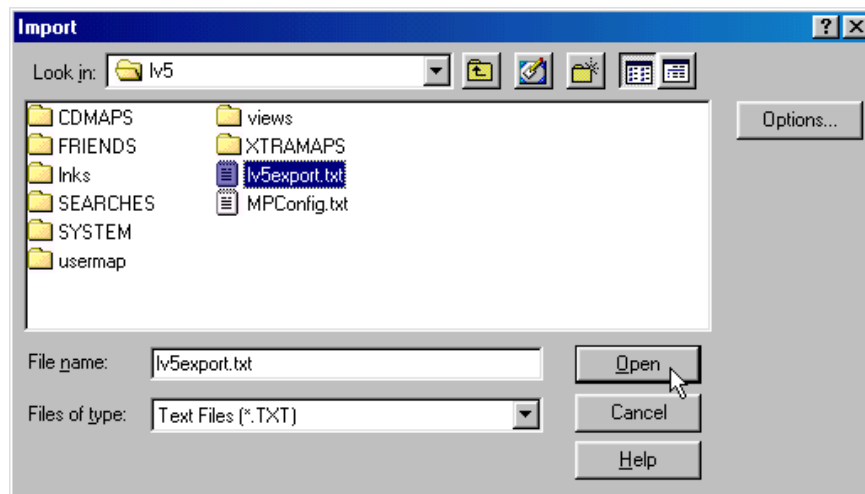
This will return to the LandView 5 “Home” screen where the MARPLOT software can be started by simply clicking on the “Go To Map” button, as in the following:



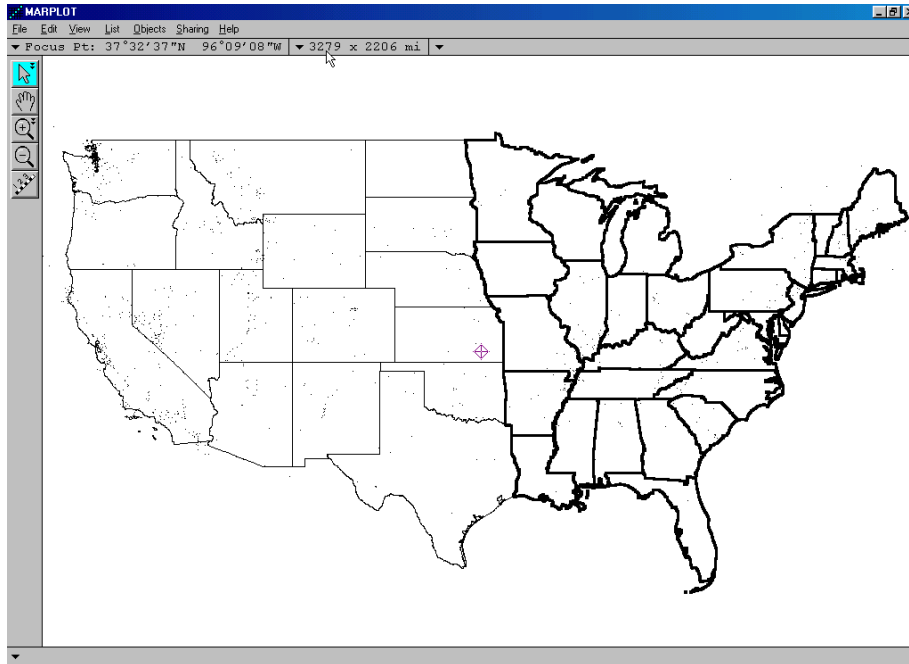
MARPLOTT initially displays a map of the U.S., with the state outlines in bold depending on which DVD-ROM disc (East or West) is currently in your drive (this tutorial assumes you are using the East disc). To import the map layer file that we created earlier, simply click on the MARPLOTT “File” menu and then select the “Import” option, as in the following:



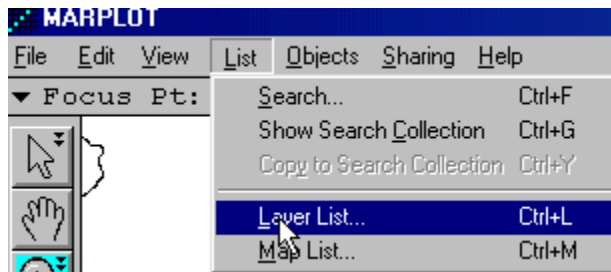
This will bring up the MARPLOTT “Import” dialog window. First, select “Text Files (\*.TXT)” files from the “Files of type” drop down menu and then navigate to the file named “LV5export.txt” that we just created in the lv5 folder. Select this file and then “Open” it as in the following:



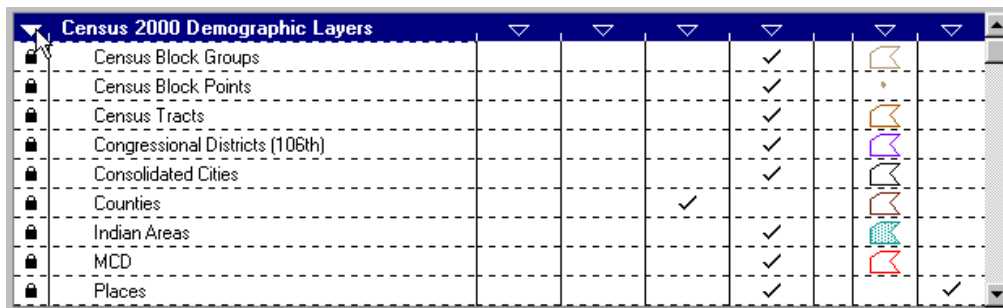
MARPLOTT will then proceed to import this file and create a corresponding map layer consisting of 1,286 points, one for every record or earthquake contained in “File\_01.lv5.” The initial map will look like the following:



MARPLOT has now imported the imported the file of earthquake locations, created the corresponding map layer, and finally has displayed those locations as small, almost imperceptible points on our map. Let's adjust the map layer and make it easier to see these points. First, click on the MARPLOT "List" menu and then select the "layer List" option, as in the following:

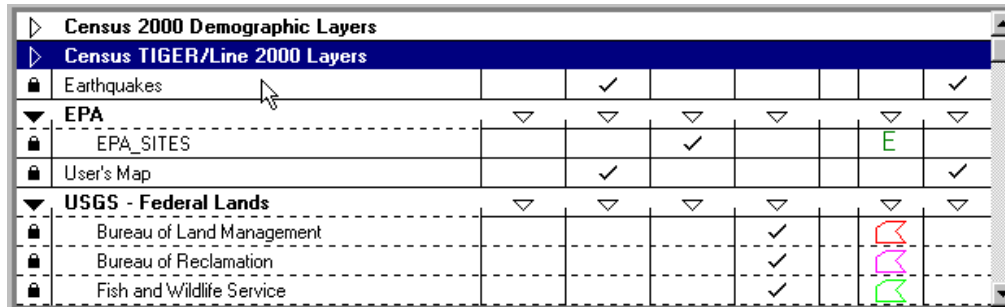


This will bring up the MARPLOT "Layer List" window where all of the various map layer that come with LandView can be seen. The initial view lists all of the "Census 2000 Demographic Layers," one of which (Counties) has a check on the "Range" column. To see other layers, first "collapse" the Demographic Layers by clicking on the down-pointing triangle, as in the following:



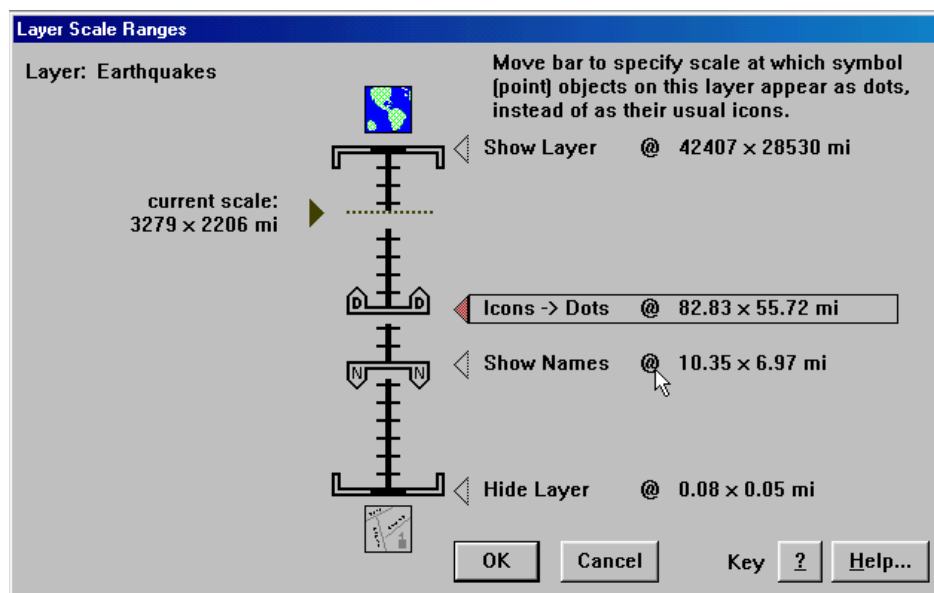
Once these layers are hidden, do the same thing to the "Census TIGER/Line 2000 Layers" and the layer list should then appear like the following:



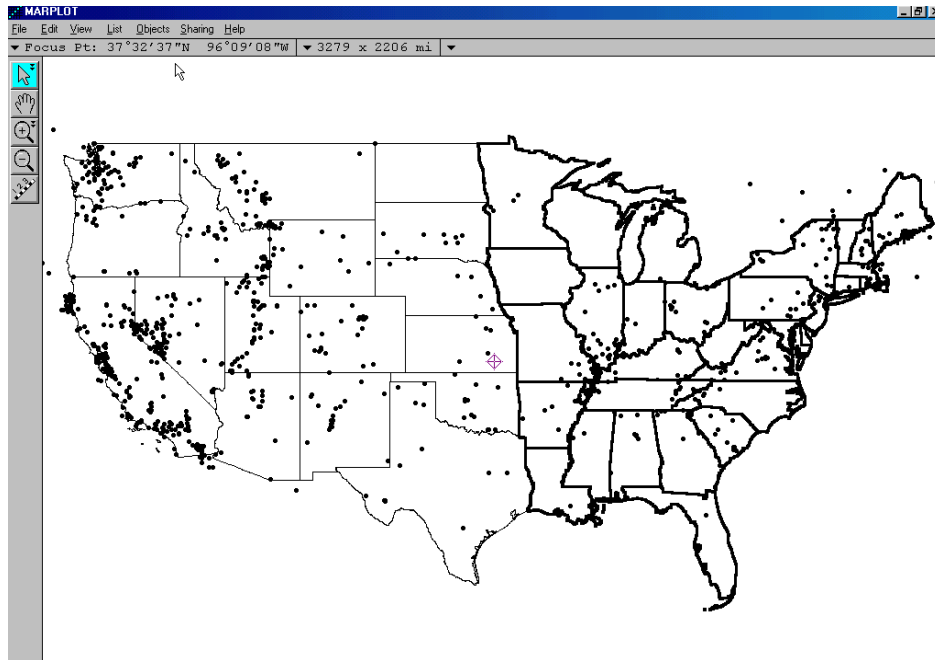


Notice the layer named “Earthquakes” directly below the “Census TIGER/Line 2000 Layers” that we just collapsed. Click on the “Earthquakes” layer and notice in the lower left of the window that we do indeed have 1,286 objects in our map layer.

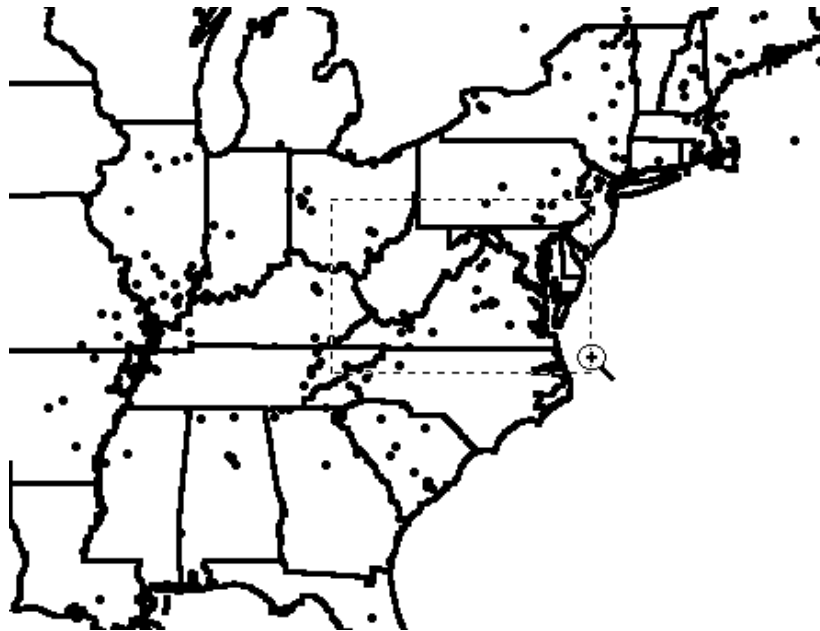
Now that the Earthquakes layer is highlighted, click on the button labeled “Scale ranges” in the bottom center of the window. This will bring up the “Layer Scale Ranges” dialog window that allows precise control over when a particular map layer. For example, clicking on the bar labeled “Icons -> Dots” allows one to specify the exact scale at which the objects on the layer will switch from larger icons to smaller dots. As it currently appears (see below), whenever the scale is zoomed out anywhere beyond 82.83 x 55.72 miles, the objects will appear as dots.



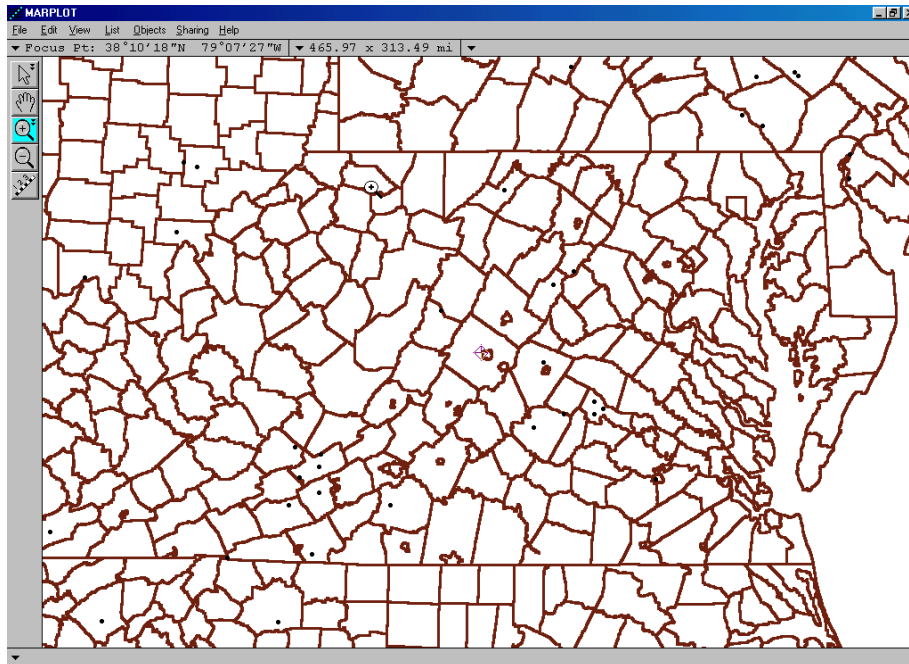
To see the larger icons, simply drag this bar upwards until it is beyond the “current scale” of the map, shown on the left side of the window. Once this bar has been placed anywhere above this “current scale,” clicking the “OK” button and then another “OK” button on the “Later List” window will produce the following map with more visible icons:



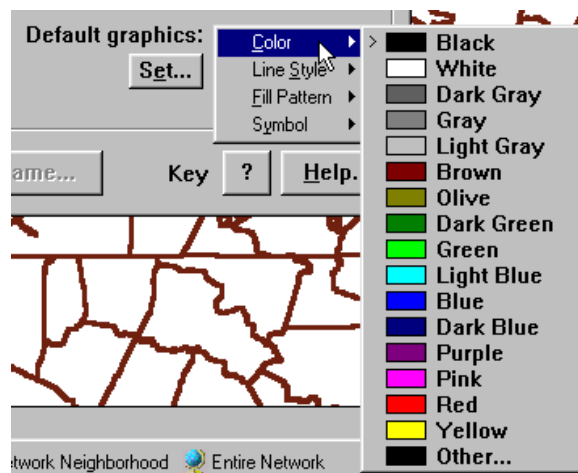
Let's focus our attention on the points or earthquake locations within state of Virginia. Click on MARPLOT's the "Zoom In" tool (shown at left) and drag a rectangle around Virginia, as in the following:



This will "zoom in" on the map and create something like the following:

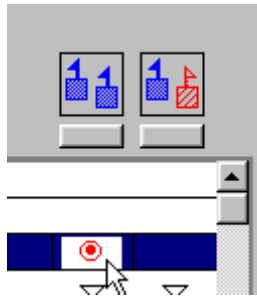


At this point, we can use a few more of the tools in MARPLOT to make those earthquake locations even more distinct. To do this, again click on the MARPLOT “List” menu and then select the “layer List” option, as before. Now click on the “Set...” button below the “Default graphics:” label on the lower right. From the popup list, select the “Color” option and then choose red as the color for the objects, as follows:

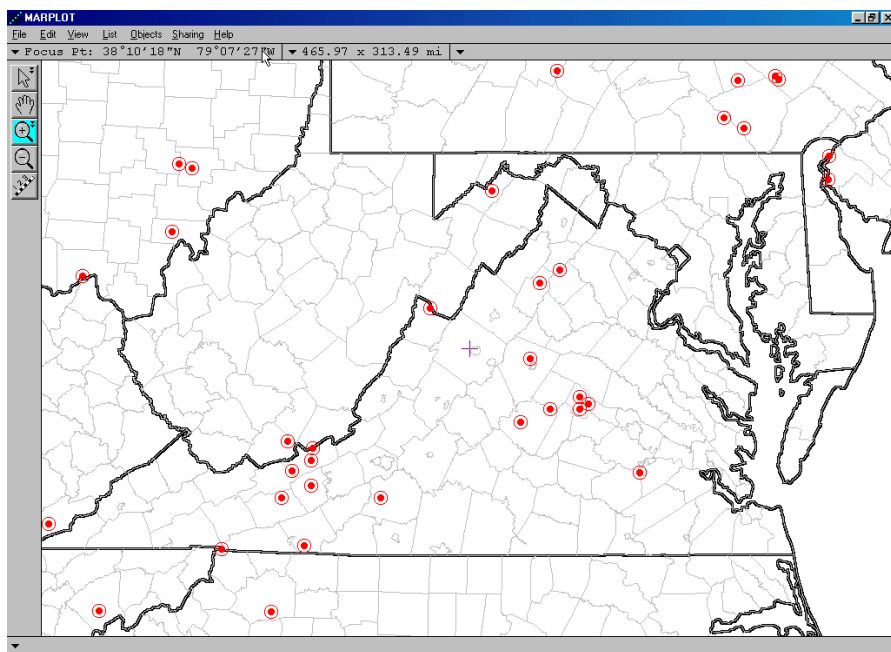


Click the “Set...” button again and this time select the “Symbol” option that looks like a solid dot with a circle located in the upper right section of the symbol list, as follows:

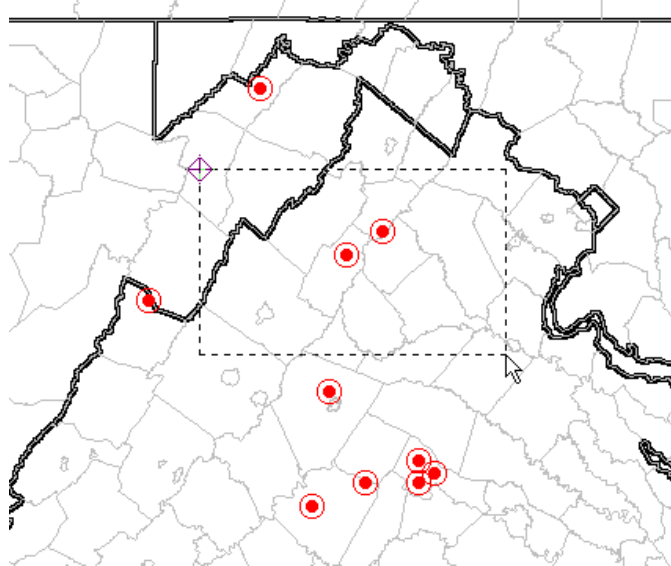
Finally, to actually make these changes take effect, we must click in the column under the two blue flags which tells MARPLOT to use the graphical settings that we have just changed in the pop-up box, as follows:



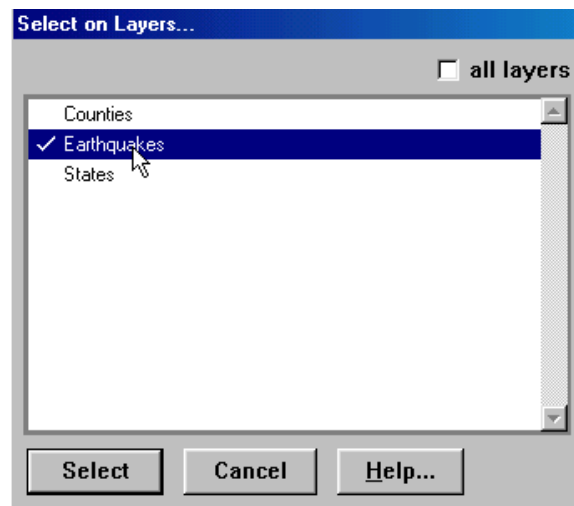
Before closing the “Layer List” window, click on the right-pointing triangle next to the collapsed “Census 2000 Demographic Layers” and then highlight the “Counties” layer. In a manner similar to before, set the “Default graphics” on the “Counties” layer so that the “color” is light gray and the “Line Style” is a very thin line. Finally, click on the “OK” button at the bottom left and the following map should appear:



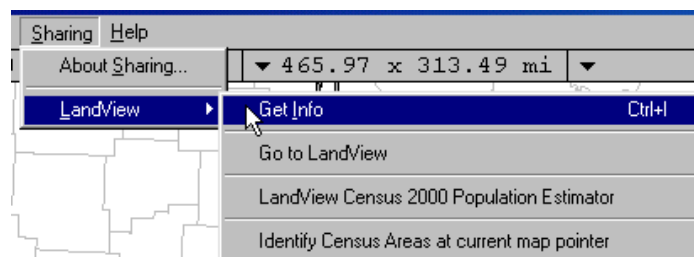
The points on the map represent earthquakes and can be individually examined by clicking on them with the object pointer (shown at left) located at the top of the far left gray panel. When an object is selected, its “name” is displayed at the lower left of the map display window. If you wish to examine the actual data record associated with a given point or points, simply use the same object pointer, but this time drag a rectangle around the points of interest. For example, if we wanted to examine the two points in the northern part of Virginia, we would drag a rectangle around them, as follows:



Then, MARPLOT displays a “Select on Layers” window where the “Earthquakes” layer would be first highlighted and then selected by clicking on the “Select” button at the bottom left, as follows:



Once this was done, the two selected points would each be surrounded by four red squares, which is MARPLOT’s method of indicating selected objects. Then, to actually select the two database records corresponding to these two map objects, you would first click the MARPLOT “Sharing” menu followed by selecting the “LandView” and “Get Info” combination, as in the following:



MARPLOT now passes control to the database module and within seconds, the records corresponding to the two selected points are displayed and look like the following:

Form View

Records: 1286  
Found: 2  
Unsorted

Setup Find Show All Records View as List Show on Map Thematic Map Home

Significant and Historic Earthquakes Print

Name: Luray, Virginia

Latitude: 38.700 Longitude: -78.400 idmarplot: 0000000000000866

Description:

State VA

text label 2

text label 3

text label 4

text label 5

Depth of Quake 0

Deaths from Quake 0

Damage from Quake 0

Magnitude of Quake 4.60

Modified Mercalli Intensity 6

Year 1918

date label 2

date label 3

date label 4

date label 5

check box label 1

check box label 2

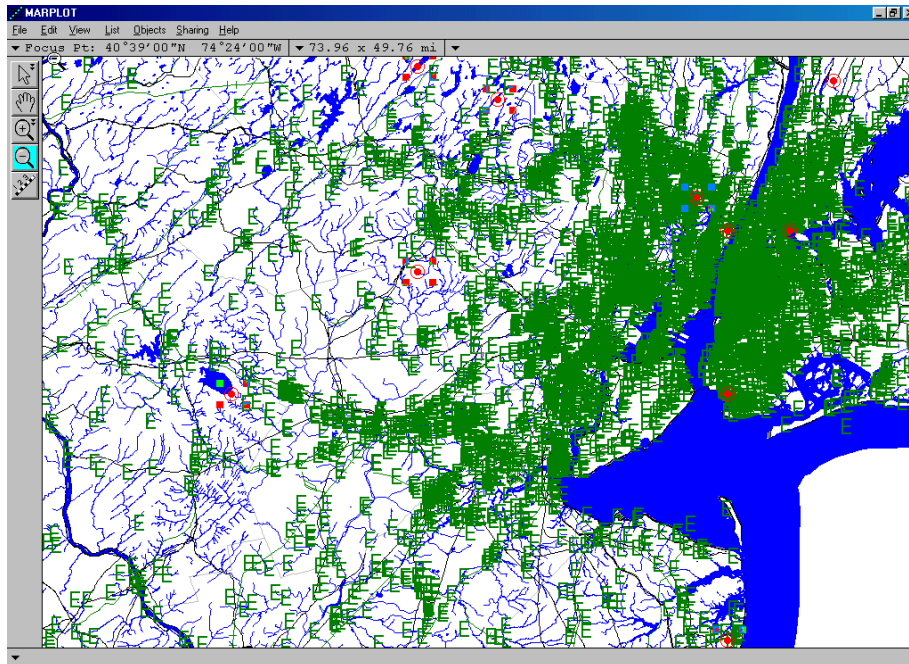
check box label 3

check box label 4

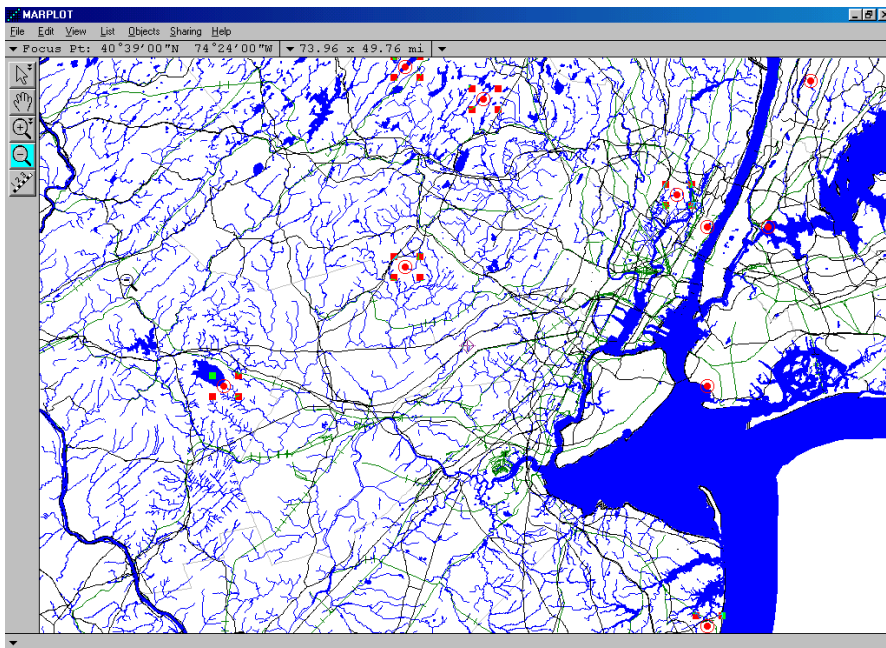
check box label 5

We can see from the display of the first record that this earthquake occurred in 1918 with a magnitude of 4.6. This ability of linking between the map objects and the corresponding data records is very powerful. It also is bi-directional in that we could just as easily perform a search of the database records and then plot the results. For example, if we wanted to plot all of the earthquakes that have ever occurred in the state of New Jersey, you would first click the “Setup Find” button, enter the value of “NJ” in the first field of the data groups, and then click on the “Find” button. After doing this, you would discover that New Jersey has had six recorded earthquakes over the years, one in 1783 as large as 5.3 on the Richter scale! The “View as List” button would display these records in a tabular form.

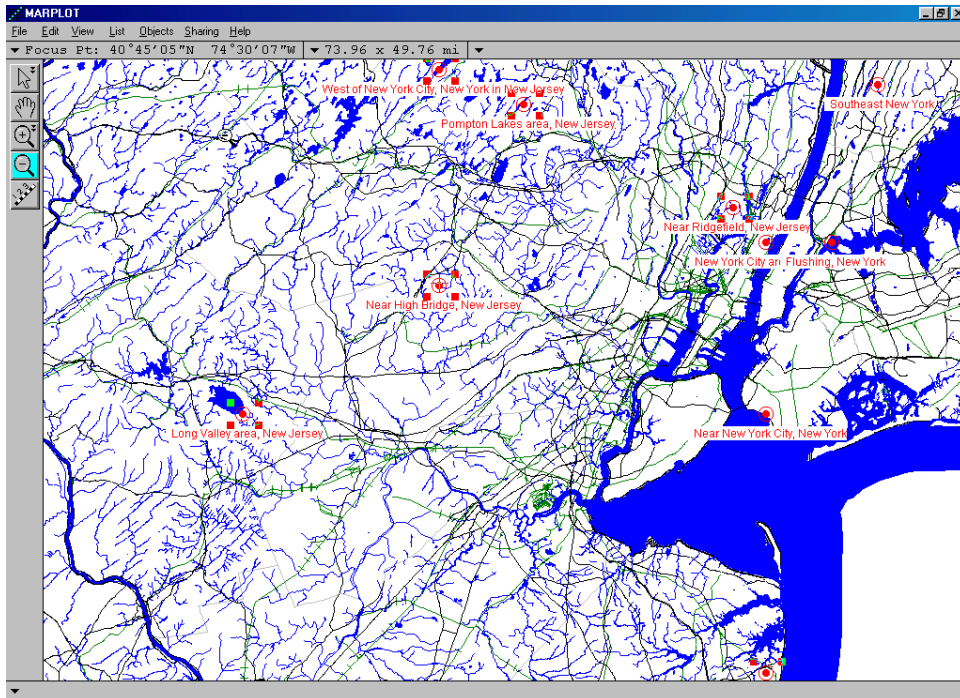
To plot these six points on our map, simply click on the “Show in Map” button and, accepting the parameters on the “Show on Map” dialog screen, the following display will appear, automatically scaled to display all six of the data points of interest:



The map, however, appears a bit cluttered because of all the EPA sites that have come on because of the map scale. To make this map a bit easier to understand, go into MARPLOT's Layer List and "hide" the EPA layer of map objects. After doing this, the map becomes much easier to read and locate the earthquake points, as follows:



Also notice that because we are zoomed somewhat far in, several other map layers have come on, including bodies of water and railroads. One last adjustment might be useful, and that is to turn on the names of the displayed earthquake locations. To do this, return once more to MARPLOT's Layer List, locate the "Earthquakes" map layer, and then click  in the "Show + Names" column to produce the following map:



You have now successfully imported a layer of point data into LandView. You have created a table containing the data records and have created a corresponding map layer containing objects for every record in the database. You have then manipulated these map objects and retrieved their corresponding data records. Congratulations!



## Other Population Searches Defined in MARPLOT

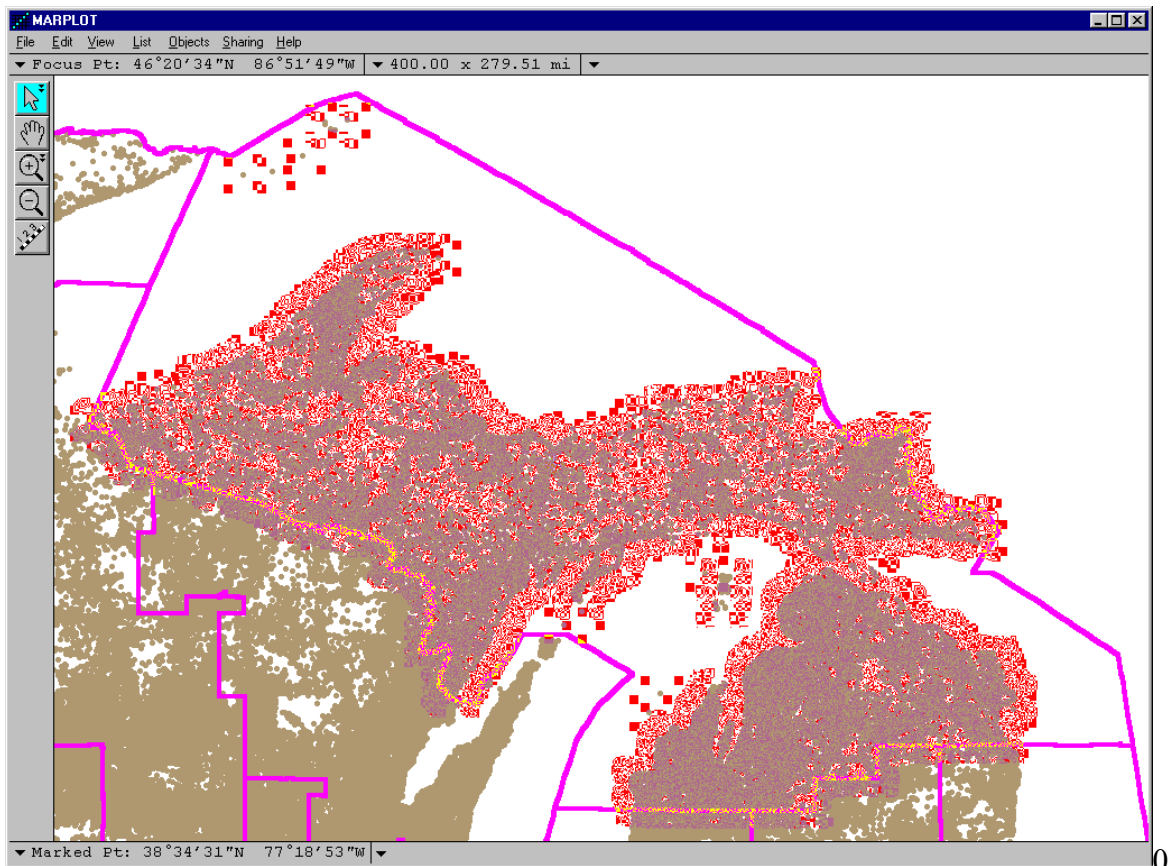
LandView 6 provides two search methodologies for populations around a point—using Census Block points, the most exact population count, and using Census Block Group polygons, for richer demographics. However, there are other population search concerns, and these can be addressed by identifying the area of concern in MARPLOT and using MARPLOT/LandView Sharing functionality to create a population profile. Some examples . . .

### Census Block Points within a Defined Polygon

As published, most polygon objects in MARPLOT are already linked to defined population profiles in LandView, but there are exceptions. For example, MARPLOT includes boundary files for both the 106<sup>th</sup> and the 108<sup>th</sup> Congressional Districts. Only the 108<sup>th</sup> Congressional District boundary files—those currently in place and prevailing until after the 2010 Decennial Census—are linked to LandView population data. If we wished to compare the present population of, say, the 1<sup>st</sup> Congressional District in Michigan with its boundary population as it existed at the time of the 2000 Decennial Census, we would initiate our search in MARPLOT.

In **List/Search . . .**, the search would be for, “Names that start with MI-01 on the Individual Layer, Congressional Districts (106<sup>th</sup>), on Maps in View”. With this object highlighted in the Search Collection, use **Show on Map and Zoom**.

With the object in **Select** mode on the map screen, a second search can be initiated. This time the search definition is as follows, “Objects that are inside of or touched by the currently selected object on the Individual Layer, Census Block Points, on Maps in View”. With the search completed, use **Show All on Map**. The Search Collection is transferred to the map screen in Select mode, as shown below.



Use **Sharing/LandView/Get Info . . .** The record for each identified block point is **Found** in LandView. The first record is shown. A **Summarize** button summarizes the data for each data field. The Summarized data is as shown below.

Census Data for Year 2000 - Summary of 28589 Census Block Records									
population	housing units	white	black	indian	asian	pacific	other	multi_race	hispanic
639,161	359,404	600,770	6,775	17,056	2,659	173	1,931	9,797	6,478

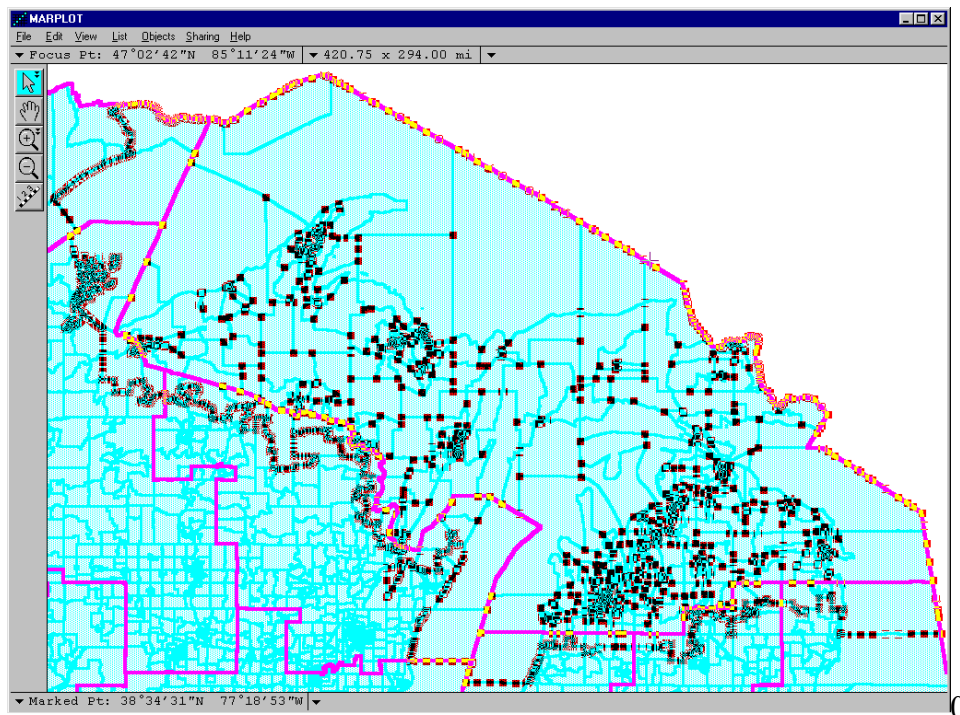
## Demographic Data using Census Block Groups within a Defined Polygon

We will discuss two approaches to identifying Census Block Groups that define an impacted population. Again we will use the 1<sup>st</sup> Congressional District of Michigan as our example. In each case, we will be identifying the centroid of area for selected Census Block Groups. In both cases, the principle is the same—for those Census Block Group polygons that lie across the boundary of the defining polygon, if the centroid lies within the defining polygon, it is counted, and if the centroid lies outside the polygon, it is not counted. On the average, plus and minus, the results should closely approximate an averaging of the demographics.

Our first approach requires manual selection . . .

## Manual Selection and Deselection of Census Block Groups

After placing MI-01 in Select mode, we mimic the second search above. Our search is for, “Objects that are inside of or touched by the currently selected object on the Individual Layer, Census Block Groups, on Maps in View”. Again **Show All on Map**. The task of deselection will be easier if first we use the **‘Blue-Blue’ Graphic Override** mode in **List/Layer List . . .** to change the display of our two layers of concern. Set the display of Census Block Groups to, say, blue and the fill to a light crosshatch. Set the display of the Congressional Boundaries to another color, say, pink. It will also be necessary to change to **Draw Order** mode and **Move** the Congressional Boundaries to the **Top**. Returning to the map screen, your view should appear as below.



At this point, it would be useful to use the **Plus Magnifying Glass** to drag a map window of

about 100 miles around the Census Block Group at the northwest corner of the Congressional District. As you deselect and/or select, use the **Hand Tool** to move around the periphery to a new area. Holding down the [Shift] key while clicking with the arrow tool allows multiple selection. **Deselect** the first polygon that lies outside the boundary of the defining polygon. If more than half its area lies outside, leave it unselected. If more than half its area appears to lie inside, reselect it. Move around the boundary until the Census Block Groups approximate the area within the defining polygon. For a polygon such as a Congressional District, planners attempt to match established geography. Only a minor number of Census Block Groups straddle the boundary, and only minor correction is needed.

Repeat **Sharing/LandView/Get Info . . .** LandView identifies related records in the DP-1 table. The first of 579 records is shown, and, again, **Summarize** is used to create the DP-1 profile record, below. Notice that the available profiles extend to the tables, DP-2 through DP-4.

**LandView 6 - Census 2000 Profile of General Demographic Characteristics DP-1 (100%)**

Summary of Census Block Groups # records summarized: 579

Total population 640,435 Total Housing Units 359,933 Persons per sq. mi: 28.1

SEX AND AGE	Number	PCT	HISPANIC OR LATINO AND RACE	Number	PCT
Male .....	322,168	50.3	Hispanic or Latino (of any race) .....	6,481	1.0
Female .....	318,267	49.7	Mexican * .....	(0)	(0)
Under 5 years .....	35,451	5.5	Puerto Rican * .....	(0)	(0)
Age 5 to 9 years .....	40,560	6.3	Cuban * .....	(0)	(0)
Age 10 to 14 years .....	45,382	7.1	Other Hispanic or Latino * .....	(0)	(0)
Age 15 to 19 years .....	47,067	7.3	Not Hispanic or Latino .....	633,954	99.0
Age 20 to 24 years .....	37,148	5.8	White alone .....	598,320	93.4
Age 25 to 34 years .....	71,889	11.2	<b>RELATIONSHIP</b>		
Age 35 to 44 years .....	100,050	15.6	In households .....	614,851	96.0
Age 45 to 54 years .....	92,802	14.5	Householder .....	255,797	39.9
Age 55 to 59 years .....	35,145	5.5	Spouse .....	141,322	22.1
Age 60 to 64 years .....	31,360	4.9	Child .....	174,264	27.2
Age 65 to 74 years .....	54,159	8.5	Own child under 18 years .....	140,310	21.9
Age 75 to 84 years .....	36,472	5.7	Other relatives .....	14,898	2.3
Age 85 years and over .....	12,950	2.0	Under 18 years .....	5,746	0.9
Median age .....	(0)	(0)	Nonrelatives .....	28,570	4.5
Age 18 years and over .....	490,327	76.6	Unmarried partner * .....	(0)	(0)
Male .....	245,061	38.3	In group quarters .....	25,584	4.0
Female .....	245,266	38.3	Institutionalized population .....	16,207	2.5
Age 21 years and over .....	463,382	72.4	Noninstitutionalized population .....	9,377	1.5
Age 62 years and over .....	122,049	19.1	<b>HOUSEHOLDS BY TYPE</b>		
Age 65 years and over .....	103,581	16.2	Total households .....	255,797	100

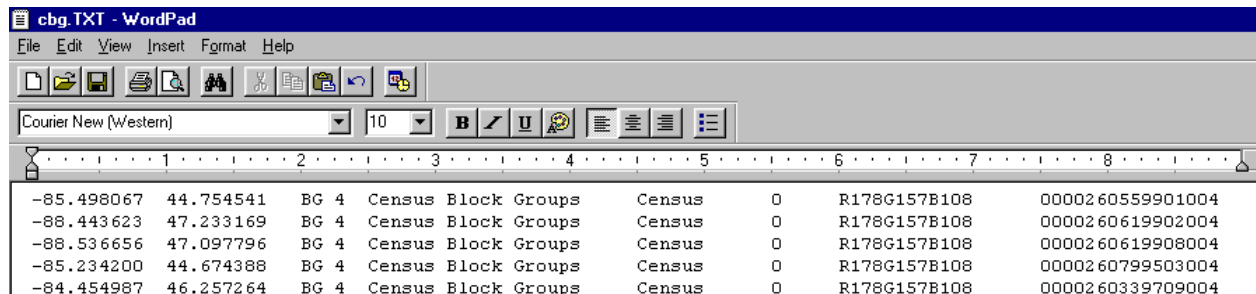
Demographic (DP-1)  
 Social (DP-2)  
 Economic (DP-3)  
 Housing (DP-4)

We will now repeat the above process, but we will let the computer identify those block groups inside and outside of the search area.

### Computerized Selection and Deselection of the Census Block Groups

In MARPLOT, Census Block Groups are displayed as polygons, and these polygons are linked to LandView records. We can create a new layer that displays the centroids of these polygons. These centroids will not be linked to LandView data. To do this, we need to use MARPLOT's **Import** and **Export** functionality. We can do this for all Census Block Groups (a very time consuming) or we can do it only for the Search Collection identified above. We will use the latter approach.

Repeat the above Search for Census Block Groups inside of or touched by the polygon. Access **File/Export . . .** There are two available Export formats—a **MARPLOT Import/Export (MIE)** format<sup>1</sup> and a **Simple Point** format, which we will use. We can use the **Search Collection** option, and we can identify where we would like to temporarily store this file. We need to modify the file, and the text editor employed should not change its text characteristics. WordPad is suggested. The first lines of text are as shown below:



The first two columns identify the longitude and latitude of the centroid point. The third column identifies an object name; the fourth—its layer name, and the fifth—its map name. We need to change the layer name, and we will do this with a global **Replace**. Use **Edit/Replace . . .** to replace “Census Block Groups” with “CBG Points”. **Replace All. Save and Close.**

In MARPLOT, import the modified file. A new, searchable layer is created on the Census map. If we examine the layer in **List/Layer List . . .**, we would see that the layer contains 660 objects. Again place the 1st Congressional District in Select mode. Use it to search for, “Objects that are inside of or touched by the currently selected object on the CBG Points layer on Maps in View”. The Search Collection shows 602 objects—Census Block Group centroids—inside the Congressional District. With **Show All on Map**, these are placed in Select mode and become new objects to define our next search, “Objects that are inside of or touching the currently selected objects on the “Census Block Group” layer on Maps in View”.

Completing the Search, we find that only 539 Census Block Group objects have been captured!! A supposedly more exact methodology has given us an inferior result! Why? A close examination of Census Block Groups will show that they are very oddly shaped polygons. Many bear a close resemblance to a ‘quarter moon’ shape. If so, its centroid of area will fall outside of the polygon. An adjacent polygon will contain two centroids while the generating polygon contains none. Polygons that should be counted are not counted.

The Census Bureau when publishing point data is mindful of this and will manually reposition centroid points so that it lies inside of the generating polygon. As you can see, in this instance, such a task can be extremely tedious.

In general, the first methodology suggested, although seemingly less exact, will provide a more exact result.

<sup>1</sup> The MIE format provides all information necessary to recreate the complete map object, including polyline and polygon boundary files. The Simple Point format provides only enough information to recreate the object as a single point—its centroid. For example, in some views, we would like to see the boundaries of the City of Chicago. In others, our concern would be the relative location of Chicago and New York as point objects.

## Other Polygon Objects

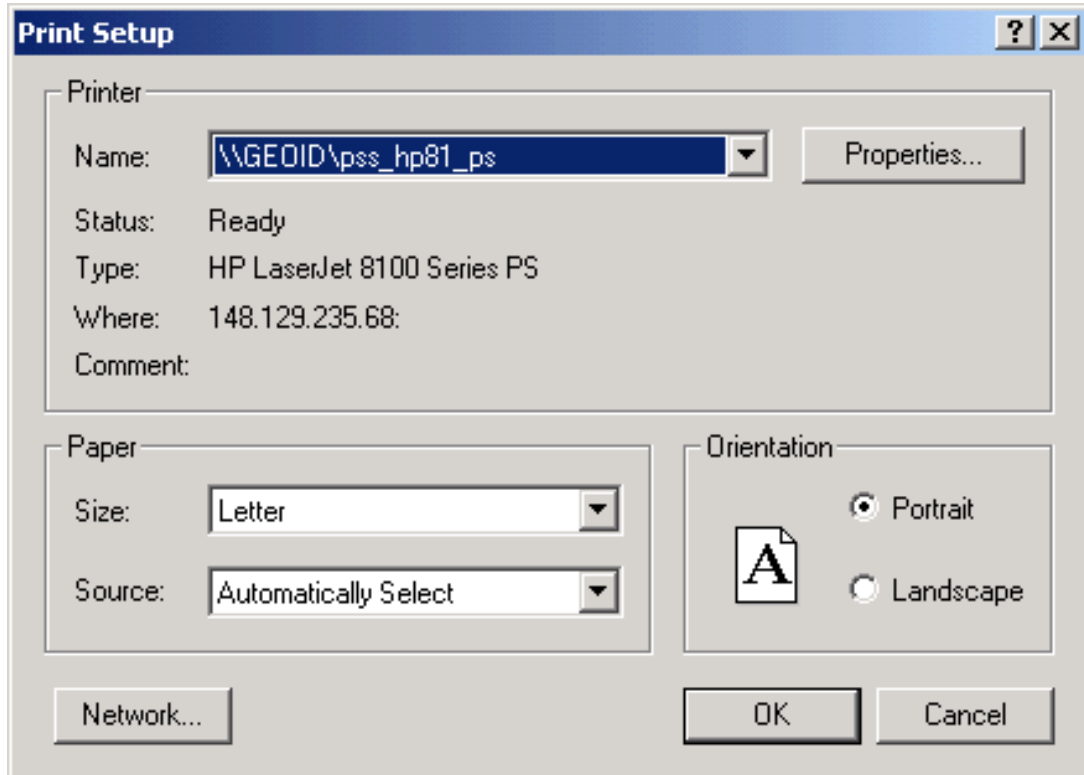
The **USGS – Federal Lands** layers in MARPLOT come without associated LandView data. Population data associated with these sites could be of interest to users.

A [Unique Solutions](#) article on identifying coastlines demonstrates searching for populations that are within a specified distance from a polyline object. A new polygon object is created that is an envelope or buffer zone around the polyline. An example of this might be determining populations within a half mile of a section of freeway, if noise pollution were a concern.

The ALOHA program, part of the CAMEO Suite of emergency planning and response programs, will generate a polygon representing the toxic zone downstream of a toxic gas release. The population residing in this zone is a concern to emergency managers needing to plan evacuation scenarios.

## Printing

The **Print Setup** option under the **File** menu invokes the standard printer setup dialog for your Windows or Macintosh system. This dialog is not part of the LandView software. Figure 1 provides a dialog for Windows OS.

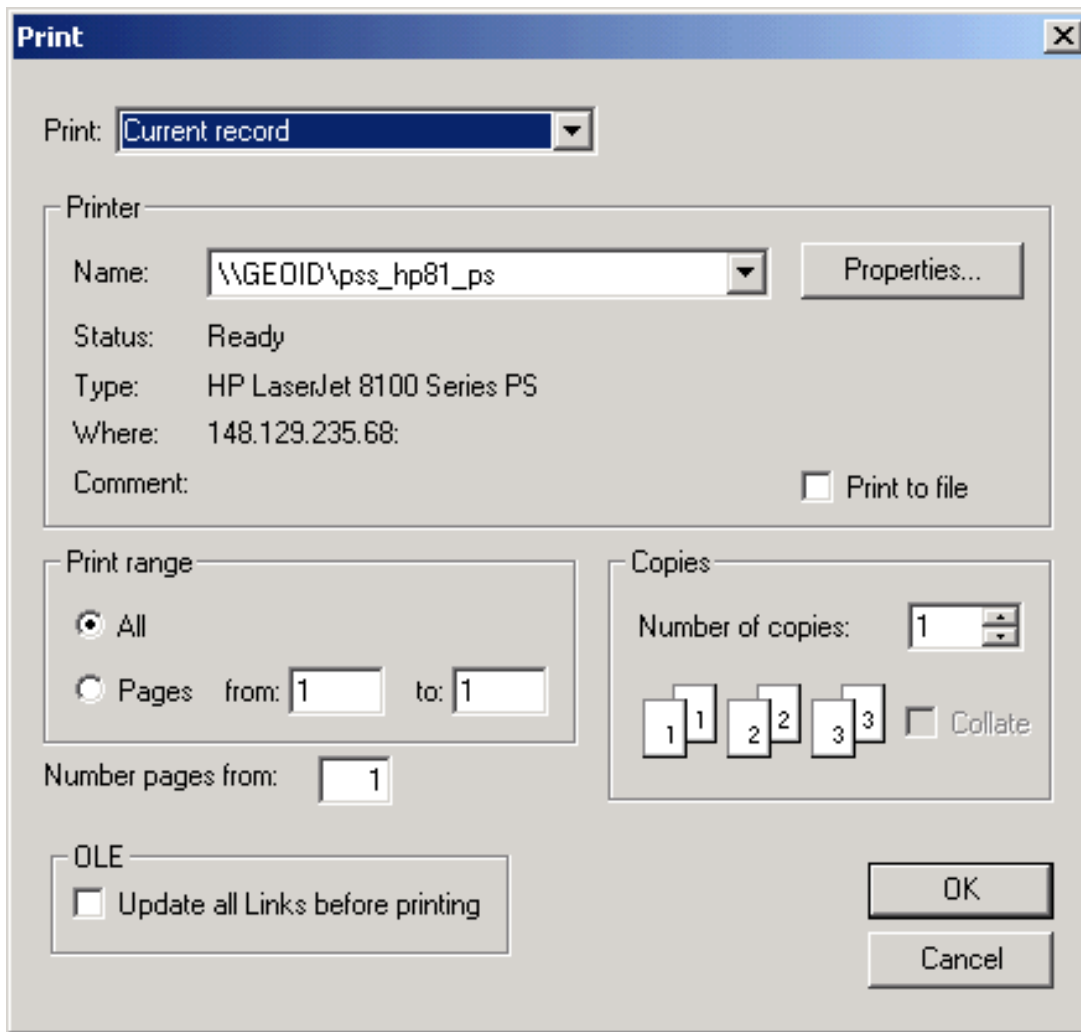


**Figure 1 — Print Setup Dialog**

If you are connected to multiple printers, you use this dialog to select the printer. Once you have selected the printer, you can then specify the paper size and page orientation.

The **Print** option under the **File** menu allows you to specify the records to print. Figure 2 provides the Windows version of this dialog. In the box labeled **Print** you can specify whether to print the current record, records being browsed or a blank record showing fields. Most of the time you will be specifying either the current record or the records being browsed. Note that records being browsed option will print either all records or the records found if you performed a query.

In addition, you will need to select the **Print View** from the **Layout Mode** options. For further information on how to do this see the [The FileMaker® Interface](#) section of this **Help**.



**Figure 2 — Print Dialog**

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Source: U.S. Census Bureau  
 Geography Division  
 Last Revised: *Friday, 05-Dec-2003 10:55:36 EST*

## View as List

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The **View as List** function can be found on the Census 2000 Demographic Profiles, EPA, and USGS database screens. When you first enter a database such as the EPA database, the format in which the information is displayed is in a form view.

If you would like to look at multiple records/a list of records at once, switching to list view would be a good option. List view simply lists all the records that were found.

For example you may want to find out how many EPA sites are in the state of Connecticut. Performing a [Find](#) will create a sub set of EPA records. To view the found set you can either look at each record individually in the form view or you may look at the list of records by switching to **View as List**. The **View as Form** button returns you to the forms screen.

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Source: U.S. Census Bureau  
Geography Division

Last Revised: *Thursday, 07-Aug-2003 13:44:52 EDT*

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# Setup A Find

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## Setup A Find

Finding specific records in the database is very easy. You first **setup** the find operation by first clicking on the **Setup A Find** button and then simply entering your desired selection criteria in one or more of the database fields. When all criteria have been entered, click on the **Find** button that appears on the gray panel on the left side of the display screen. The selection criteria entered in the fields are collectively referred to as a **Search Request** and can be combined with a Boolean **AND** when the **Find** button is clicked. For numeric fields, you can use symbols before the number, such as **< (less than)**, **<= (less than or equal to)**, **> (greater than)**, **>= (greater than or equal to)**.

**NOTE:** Any field with a **drop-down menu** button beside it will display a list of possible values for that field when the button is clicked.

## The Boolean OR

Sometimes you need to find records by combining criteria with a logical or Boolean **OR** operation. Since each set of criteria is treated as a separate Search Request, a Boolean **OR** is made by simply adding new Search Requests. To add a new Search Request, first click on the **Requests** pull-down menu at the top of the display screen, and then choose the **Add New Request** option from this menu to enter a new set of selection criteria. You may add as many new Search Requests as needed. When all of the **Search Requests** have been entered, click on the **Find** button that appears on the gray panel on the left side of the display screen to complete the find operation.

## Additional Operators

There are additional operators or **symbols** that may be used in setting up the find operation. These additional operators can be found by clicking on the **Symbols** button to display the complete list. To use an operator, first place your cursor in one of the fields on the display screen and then simply click on the desired operator. Once the operator is in the desired field, click on the button that appears on the gray panel on the left side of the display screen to perform the corresponding find.

**NOTE:** If you want to find all the records that have been **omitted** based on your search criteria, simply click in the **Omit** check box prior to clicking the **Find** button.

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*Source: U.S. Census Bureau, Geography Division*

*Created: Sept-28-2001*

*Last revised: June 11 2002*

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*Helping You Make Informed Decisions*

NOAA's List of Coastal Counties  
for the Bureau of the Census  
*Statistical Abstract Series*

**Introduction**

The attached list contains all U.S. counties defined as *coastal* by the Strategic Environmental Assessments Division of the National Oceanic and Atmospheric Administration (NOAA). These are counties that meet one of the following criteria: 1) at least 15 percent of a county's total land area is located within the Nation's coastal watershed; or 2) a portion of or an entire county accounts for at least 15 percent of a coastal cataloging unit. Any U.S. county that meets these criteria is classified as coastal. This is the list of coastal counties that NOAA recommends for the Bureau of the Census' *Statistical Abstract* publication series.

There are 672 coastal counties including the District of Columbia in the United States (285 in the Atlantic, 142 in the Gulf of Mexico, 87 in the Pacific, and 158 in the Great Lakes). In 1990, these counties accounted for almost 54 percent of the Nation's population and 25 percent of the land area. If Alaska is excluded, the proportion of the U.S. land area classified as coastal decreases to 17 percent.

**How was this List Developed?**

This list was developed using a two-step process. The first step identified those counties that had at least 15 percent of their land area in the coastal watershed. The second step identified those counties that accounted for at least 15 percent of a coastal cataloging unit. This was done only for counties that bisected the coastal watershed, but had less than 15 percent of their total land area in the coastal watershed.

The intent of the second step was to identify those counties that, although not having at least 15 percent of their total area within the coastal watershed, still have a large land area within a coastal watershed. For example, the portion within the coastal watershed for several bisected counties is larger than the total size of many coastal counties that are entirely within the coastal watershed. This allowed for these counties to be included in the NOAA set of coastal counties. The process used to identify these counties is outlined below:

***Step 1. Coastal Counties that have 15% of more of their Total Land Area in the Coastal Watershed (666 counties).***

- 1) Counties that bisected or were entirely within the coastal watershed were identified.
- 2) The land area was calculated for each county.
- 3) The coastal watershed land area was calculated for each bisected county.
- 4) The percentage of a county's total land area within the coastal watershed was calculated. This figure was determined by dividing the county's coastal watershed land area by its total land area. If a county's land area fell entirely within the

- coastal watershed, the value was 100 percent. If the coastal watershed covered only part of the county, the value was less than 100 percent.
- 5) All counties were checked against hard-copy maps (showing counties and coastal watersheds) to determine if they were entirely within, or bisected by, the coastal watershed boundary.
  - 6) Any county that had at least 15 percent of its land area in the coastal watershed was identified as being coastal.

***Step 2. Coastal Counties that Comprise at Least 15% of Coastal Cataloging Unit's Land Area (6 counties).***

- 1) Counties that bisected the coastal watershed and had less than 15 percent of their land area in the coastal watershed were identified.
- 2) The coastal cataloging units that were identified.
- 3) The amount of land area in each coastal cataloging unit was calculated (although most coastal cataloging units are located entirely within the coastal watershed, only the area of the cataloging unit within the coastal watershed was determined).
- 4) The amount of land area where the counties and cataloging units overlapped was calculated.
- 5) The proportion of a cataloging unit's land area within this polygon was calculated.
- 6) If any portion of a county accounted for at least 15 percent of a coastal cataloging unit, the county was identified as being coastal.

**Development of Land Area Estimates**

All county boundary files were derived from the U.S. Geological Survey's (USGS) 1:2,000,000 DLG-3 data series. All watershed boundaries were derived from the USGS 1:500,000 hydrologic map series. After combining these two geographies, area calculations from the ARC/INFO Geographic Information System were used to derive the county, coastal watershed, and cataloging unit land area figures.

Because of the difference in scales between the two map series, the percent of county land within the coastal watershed or a coastal cataloging unit is less accurate than using the same scale for both. For example, in some cases the county boundary is the same as the coastal watershed boundary, but, because of the difference between two scales, they do not show a perfect match. However, the estimates are considered to be acceptable for the purposes of developing this list of coastal counties.

**What is a Coastal Watershed or a Coastal Cataloging Unit?**

The **coastal watershed** is composed of all lands within Estuarine Drainage Areas (EDAs) or Coastal Drainage Areas (CDAs) in NOAA's Coastal Assessment Framework. EDAs and CDAs are individual coastal watersheds that border the coast of the contiguous United States, not including Alaska or Hawaii. No portion of the U.S. coastline is excluded.

An EDA is defined as that part of an estuary's entire watershed that empties directly into the estuary and, for each river in the estuary's watershed, includes the downstream-most USGS cataloging unit in which the head of tide is found. CDAs are defined as that component of an entire watershed that meets these three criteria: 1) it is not part of any one of the 102 EDAs; 2) it drains directly into an ocean, an estuary, or the Great Lakes; and 3) it contains the downstream-most cataloging unit in which the head of tide is found (in the Great Lakes, tide refers to meteorologically created tides).

A **coastal cataloging unit** is a drainage basin that falls entirely within or straddles an EDA or CDA. Typically, most EDAs or CDAs are composed of several complete cataloging units (drainage basins).

### **Why use the 15 Percent Rule?**

The **15-percent rule** was selected as an appropriate level for capturing counties with a significant impact on coastal and ocean resources. According to this rule, a county is coastal if: 1) at least 15 percent of its total land area is within the coastal watershed; or 2) a portion of or its entire land area accounts for at least 15 percent of a coastal cataloging unit. For example, counties with at least one-third to one-quarter of their land area in the coastal watershed obviously have a large impact on coastal resources. However, counties that only have a small percentage of lands within the coastal watershed have a much smaller impact. Indeed, their impact may be inconsequential. Consequently, the 15-percent rule separates these two groups of counties.

### **Exceptions to the General Rule**

There are a few exceptions to these rules. Cook and Lake Counties in Illinois, as examples, do not meet the 15 percent rule for a coastal watershed or a coastal cataloging unit. They do, however, border directly on Lake Michigan, so NOAA has included them in a coastal county set.

NOAA also does not include Alaska or Hawaii in its Coastal Assessment Framework. However, all counties (boroughs and census areas in Alaska) that directly border the coastline in these states are included here. As a result, all of Hawaii's counties, and 22 of Alaska's 25 areas, are found in NOAA's final set of coastal counties.

NOAA also identified the approximate inland boundary of Alaska's coastal watershed in Alaska. This boundary was used to determine the status of interior boroughs/census area. The three interior boroughs/census areas that were excluded fell outside of the coastal watershed.

### **Regions**

The Atlantic region includes counties from Maine to Florida located within, or bisected by, the portion of the coastal watershed that drains into the Atlantic Ocean. This means that 25 of the 28 coastal counties in Georgia, and 21 of the 61 coastal counties in Florida, are included in the Atlantic region. The Gulf of Mexico region extends from Florida to Texas. The Pacific region includes California, Oregon,

Washington, Alaska, and Hawaii. The Great Lakes region includes counties in all states bordering the Great Lakes. One of Pennsylvania's 13 coastal , and 21 of New York's 39 coastal counties, are included in this region

Several of Florida's coastal counties occur in both the Atlantic and Gulf of Mexico portions of the coastal watershed. Each county has been classified according to the region in which the greatest proportion of its coastal watershed land area lives. For example, 60 percent of a county's land area may drain into the Gulf of Mexico, with the remaining 40 percent draining into the Atlantic. This county would, therefore, be classified as being in the Gulf of Mexico Region.

Questions about the following list or related definitions should be directed to: Peter C. Wiley

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STATE	FIPS	FIPSNAME
AK	02013	Aleutians East, AK
AK	02016	Aleutians West, AK
AK	02020	Anchorage, AK
AK	02050	Bethel, AK
AK	02060	Bristol Bay, AK
AK	02070	Dillingham, AK
AK	02100	Haines, AK
AK	02110	Juneau, AK
AK	02122	Kenai Peninsula, AK
AK	02130	Ketchikan Gateway, AK
AK	02150	Kodiak Island, AK
AK	02164	Lake and Peninsula, AK
AK	02170	Matanuska-Susitna, AK
AK	02180	Nome, AK
AK	02185	North Slope, AK
AK	02188	Northwest Arctic, AK
AK	02201	Prince of Wales-Outer Ketch
AK	02220	Sitka, AK
AK	02232	Skagway-Hoonah-Angoon, AK
AK	02261	Valdez-Cordova, AK
AK	02270	Wade Hampton, AK
AK	02280	Wrangell-Petersburg, AK
AK	02282	Yakutat, AK
AL	01003	Baldwin, AL
AL	01025	Clarke, AL
AL	01039	Covington, AL
AL	01053	Escambia, AL
AL	01061	Geneva, AL
AL	01097	Mobile, AL
AL	01099	Monroe, AL

AL	01129	Washington, AL
CA	06001	Alameda, CA
CA	06013	Contra Costa, CA
CA	06015	Del Norte, CA
CA	06023	Humboldt, CA
CA	06037	Los Angeles, CA
CA	06041	Marin, CA
CA	06045	Mendocino, CA
CA	06053	Monterey, CA
CA	06055	Napa, CA
CA	06059	Orange, CA
CA	06065	Riverside, CA
CA	06067	Sacramento, CA
CA	06069	San Benito, CA
CA	06071	San Bernardino
CA	06073	San Diego, CA
CA	06075	San Francisco, CA
CA	06077	San Joaquin, CA
CA	06079	San Luis Obispo, CA
CA	06081	San Mateo, CA
CA	06083	Santa Barbara, CA
CA	06085	Santa Clara, CA
CA	06087	Santa Cruz, CA
CA	06093	Siskiyou, CA
CA	06095	Solano, CA
CA	06097	Sonoma, CA
CA	06101	Sutter, CA
CA	06105	Trinity, CA
CA	06111	Ventura, CA
CA	06113	Yolo, CA
CT	09001	Fairfield, CT
CT	09003	Hartford, CT
CT	09005	Litchfield, CT
CT	09007	Middlesex, CT
CT	09009	New Haven, CT
CT	09011	New London, CT
CT	09013	Tolland, CT
CT	09015	Windham, CT
DC	11001	District of Columbia
DE	10001	Kent, DE
DE	10003	New Castle, DE
DE	10005	Sussex, DE
FL	12005	Bay, FL
FL	12013	Calhoun, FL
FL	12015	Charlotte, FL
FL	12017	Citrus, FL
FL	12021	Collier, FL
FL	12027	De Soto, FL

FL	12029	Dixie, FL
FL	12033	Escambia, FL
FL	12037	Franklin, FL
FL	12039	Gadsden, FL
FL	12041	Gilchrist, FL
FL	12043	Glades, FL
FL	12045	Gulf, FL
FL	12049	Hardee, FL
FL	12053	Hernando, FL
FL	12057	Hillsborough, FL
FL	12059	Holmes, FL
FL	12063	Jackson, FL
FL	12065	Jefferson, FL
FL	12067	Lafayette, FL
FL	12071	Lee, FL
FL	12073	Leon, FL
FL	12075	Levy, FL
FL	12077	Liberty, FL
FL	12079	Madison, FL
FL	12081	Manatee, FL
FL	12083	Marion, FL
FL	12087	Monroe, FL
FL	12091	Okaloosa, FL
FL	12101	Pasco, FL
FL	12103	Pinellas, FL
FL	12105	Polk, FL
FL	12113	Santa Rosa, FL
FL	12115	Sarasota, FL
FL	12119	Sumter, FL
FL	12121	Suwannee, FL
FL	12123	Taylor, FL
FL	12129	Wakulla, FL
FL	12131	Walton, FL
FL	12133	Washington, FL
FL (EC)	12003	Baker, FL
FL (EC)	12009	Brevard, FL
FL (EC)	12011	Broward, FL
FL (EC)	12019	Clay, FL
FL (EC)	12086	Miami-Dade, FL
FL (EC)	12031	Duval, FL
FL (EC)	12035	Flagler, FL
FL (EC)	12051	Hendry, FL
FL (EC)	12061	Indian River, FL
FL (EC)	12069	Lake, FL
FL (EC)	12085	Martin, FL
FL (EC)	12089	Nassau, FL
FL (EC)	12093	Okeechobee, FL
FL (EC)	12095	Orange, FL



FL (EC)	12097	Osceola, FL
FL (EC)	12099	Palm Beach, FL
FL (EC)	12107	Putnam, FL
FL (EC)	12109	St. Johns, FL
FL (EC)	12111	St. Lucie, FL
FL (EC)	12117	Seminole, FL
FL (EC)	12127	Volusia, FL
GA	13001	Appling, GA
GA	13003	Atkinson, GA
GA	13005	Bacon, GA
GA	13025	Brantley, GA
GA	13029	Bryan, GA
GA	13031	Bulloch, GA
GA	13039	Camden, GA
GA	13049	Charlton, GA
GA	13051	Chatham, GA
GA	13069	Coffee, GA
GA	13103	Effingham, GA
GA	13127	Glynn, GA
GA	13155	Irwin, GA
GA	13161	Jeff Davis, GA
GA	13165	Jenkins, GA
GA	13179	Liberty, GA
GA	13183	Long, GA
GA	13191	McIntosh, GA
GA	13209	Montgomery, GA
GA	13229	Pierce, GA
GA	13251	Screven, GA
GA	13267	Tattnall, GA
GA	13279	Toombs, GA
GA	13299	Ware, GA
GA	13305	Wayne, GA
GA (GOM)	13087	Decatur, GA
GA (GOM)	13131	Grady, GA
GA (GOM)	13275	Thomas, GA
HI	15001	Hawaii, HI
HI	15003	Honolulu, HI
HI	15005	Kalawao, HI
HI	15007	Kauai, HI
HI	15009	Maui, HI
IL	17031	Cook, IL
IL	17097	Lake, IL
IN	18039	Elkhart, IN
IN	18085	Kosciusko, IN
IN	18087	Lagrange, IN
IN	18089	Lake, IN
IN	18091	La Porte, IN
IN	18113	Noble, IN

IN	18127	Porter, IN
IN	18141	St. Joseph, IN
IN	18151	Steuben, IN
LA	22001	Acadia, LA
LA	22005	Ascension, LA
LA	22007	Assumption, LA
LA	22009	Avoyelles, LA
LA	22011	Beauregard, LA
LA	22019	Calcasieu, LA
LA	22023	Cameron, LA
LA	22033	East Baton Rouge, LA
LA	22037	East Feliciana, LA
LA	22039	Evangeline, LA
LA	22045	Iberia, LA
LA	22047	Iberville, LA
LA	22051	Jefferson, LA
LA	22053	Jefferson Davis, LA
LA	22055	Lafayette, LA
LA	22057	Lafourche, LA
LA	22063	Livingston, LA
LA	22071	Orleans, LA
LA	22075	Plaquemines, LA
LA	22077	Pointe Coupee, LA
LA	22079	Rapides, LA
LA	22085	Sabine, LA
LA	22087	St. Bernard, LA
LA	22089	St. Charles, LA
LA	22091	St. Helena, LA
LA	22093	St. James, LA
LA	22095	St. John the Baptist, LA
LA	22097	St. Landry, LA
LA	22099	St. Martin, LA
LA	22101	St. Mary, LA
LA	22103	St. Tammany, LA
LA	22105	Tangipahoa, LA
LA	22109	Terrebonne, LA
LA	22113	Vermilion, LA
LA	22115	Vernon, LA
LA	22117	Washington, LA
LA	22121	West Baton Rouge, LA
LA	22125	West Feliciana, LA
MA	25001	Barnstable, MA
MA	25003	Berkshire, MA
MA	25005	Bristol, MA
MA	25007	Dukes, MA
MA	25009	Essex, MA
MA	25013	Hampden, MA
MA	25017	Middlesex, MA

MA	25019	Nantucket, MA
MA	25021	Norfolk, MA
MA	25023	Plymouth, MA
MA	25025	Suffolk, MA
MA	25027	Worcester, MA
MD	24003	Anne Arundel, MD
MD	24005	Baltimore, MD
MD	24009	Calvert, MD
MD	24011	Caroline, MD
MD	24013	Carroll, MD
MD	24015	Cecil, MD
MD	24017	Charles, MD
MD	24019	Dorchester, MD
MD	24025	Harford, MD
MD	24027	Howard, MD
MD	24029	Kent, MD
MD	24031	Montgomery, MD
MD	24033	Prince George's, MD
MD	24035	Queen Anne's, MD
MD	24037	St. Mary's, MD
MD	24039	Somerset, MD
MD	24041	Talbot, MD
MD	24045	Wicomico, MD
MD	24047	Worcester, MD
MD	24510	Baltimore city, MD
ME	23001	Androscoggin, ME
ME	23005	Cumberland, ME
ME	23007	Franklin, ME
ME	23009	Hancock, ME
ME	23011	Kennebec, ME
ME	23013	Knox, ME
ME	23015	Lincoln, ME
ME	23017	Oxford, ME
ME	23019	Penobscot, ME
ME	23023	Sagadahoc, ME
ME	23025	Somerset, ME
ME	23027	Waldo, ME
ME	23029	Washington, ME
ME	23031	York, ME
MI	26001	Alcona, MI
MI	26003	Alger, MI
MI	26005	Allegan, MI
MI	26007	Alpena, MI
MI	26009	Antrim, MI
MI	26011	Arenac, MI
MI	26013	Baraga, MI
MI	26015	Barry, MI
MI	26017	Bay, MI

MI	26019	Benzie, MI
MI	26021	Berrien, MI
MI	26023	Branch, MI
MI	26025	Calhoun, MI
MI	26027	Cass, MI
MI	26029	Charlevoix, MI
MI	26031	Cheboygan, MI
MI	26033	Chippewa, MI
MI	26035	Clare, MI
MI	26039	Crawford, MI
MI	26041	Delta, MI
MI	26043	Dickinson, MI
MI	26045	Eaton, MI
MI	26047	Emmet, MI
MI	26053	Gogebic, MI
MI	26055	Grand Traverse, MI
MI	26059	Hillsdale, MI
MI	26061	Houghton, MI
MI	26063	Huron, MI
MI	26067	Ionia, MI
MI	26069	Iosco, MI
MI	26075	Jackson, MI
MI	26077	Kalamazoo, MI
MI	26079	Kalkaska, MI
MI	26081	Kent, MI
MI	26083	Keweenaw, MI
MI	26085	Lake, MI
MI	26087	Lapeer, MI
MI	26089	Leelanau, MI
MI	26091	Lenawee, MI
MI	26093	Livingston, MI
MI	26095	Luce, MI
MI	26097	Mackinac, MI
MI	26099	Macomb, MI
MI	26101	Manistee, MI
MI	26103	Marquette, MI
MI	26105	Mason, MI
MI	26107	Mecosta, MI
MI	26109	Menominee, MI
MI	26113	Missaukee, MI
MI	26115	Monroe, MI
MI	26117	Montcalm, MI
MI	26119	Montmorency, MI
MI	26121	Muskegon, MI
MI	26123	Newaygo, MI
MI	26125	Oakland, MI
MI	26127	Oceana, MI
MI	26129	Ogemaw, MI

MI	26131	Ontonagon, MI
MI	26133	Osceola, MI
MI	26135	Oscoda, MI
MI	26137	Otsego, MI
MI	26139	Ottawa, MI
MI	26141	Presque Isle, MI
MI	26143	Roscommon, MI
MI	26145	Saginaw, MI
MI	26147	St. Clair, MI
MI	26149	St. Joseph, MI
MI	26151	Sanilac, MI
MI	26153	Schoolcraft, MI
MI	26157	Tuscola, MI
MI	26159	Van Buren, MI
MI	26161	Washtenaw, MI
MI	26163	Wayne, MI
MI	26165	Wexford, MI
MN	27017	Carlton, MN
MN	27031	Cook, MN
MN	27075	Lake, MN
MN	27137	St. Louis, MN
MS	28005	Amite, MS
MS	28039	George, MS
MS	28045	Hancock, MS
MS	28047	Harrison, MS
MS	28059	Jackson, MS
MS	28073	Lamar, MS
MS	28091	Marion, MS
MS	28109	Pearl River, MS
MS	28113	Pike, MS
MS	28131	Stone, MS
MS	28147	Walthall, MS
MS	28157	Wilkinson, MS
NC	37007	Anson, NC
NC	37013	Beaufort, NC
NC	37015	Bertie, NC
NC	37017	Bladen, NC
NC	37019	Brunswick, NC
NC	37029	Camden, NC
NC	37031	Carteret, NC
NC	37041	Chowan, NC
NC	37047	Columbus, NC
NC	37049	Craven, NC
NC	37051	Cumberland, NC
NC	37053	Currituck, NC
NC	37055	Dare, NC
NC	37061	Duplin, NC
NC	37065	Edgecombe, NC

NC	37073	Gates, NC
NC	37083	Halifax, NC
NC	37091	Hertford, NC
NC	37095	Hyde, NC
NC	37103	Jones, NC
NC	37107	Lenoir, NC
NC	37117	Martin, NC
NC	37129	New Hanover, NC
NC	37131	Northampton, NC
NC	37133	Onslow, NC
NC	37137	Pamlico, NC
NC	37139	Pasquotank, NC
NC	37141	Pender, NC
NC	37143	Perquimans, NC
NC	37147	Pitt, NC
NC	37153	Richmond, NC
NC	37163	Sampson, NC
NC	37165	Scotland, NC
NC	37177	Tyrrell, NC
NC	37187	Washington, NC
NC	37191	Wayne, NC
NC	37195	Wilson, NC
NH	33001	Belknap, NH
NH	33003	Carroll, NH
NH	33011	Hillsborough, NH
NH	33013	Merrimack, NH
NH	33015	Rockingham, NH
NH	33017	Strafford, NH
NJ	34001	Atlantic, NJ
NJ	34003	Bergen, NJ
NJ	34005	Burlington, NJ
NJ	34007	Camden, NJ
NJ	34009	Cape May, NJ
NJ	34011	Cumberland, NJ
NJ	34013	Essex, NJ
NJ	34015	Gloucester, NJ
NJ	34017	Hudson, NJ
NJ	34019	Hunterdon, NJ
NJ	34021	Mercer, NJ
NJ	34023	Middlesex, NJ
NJ	34025	Monmouth, NJ
NJ	34027	Morris, NJ
NJ	34029	Ocean, NJ
NJ	34031	Passaic, NJ
NJ	34033	Salem, NJ
NJ	34035	Somerset, NJ
NJ	34037	Sussex, NJ
NJ	34039	Union, NJ

NY	36001	Albany, NY
NY	36005	Bronx, NY
NY	36021	Columbia, NY
NY	36027	Dutchess, NY
NY	36039	Greene, NY
NY	36047	Kings, NY
NY	36059	Nassau, NY
NY	36061	New York, NY
NY	36071	Orange, NY
NY	36079	Putnam, NY
NY	36081	Queens, NY
NY	36083	Rensselaer, NY
NY	36085	Richmond, NY
NY	36087	Rockland, NY
NY	36093	Schenectady, NY
NY	36103	Suffolk, NY
NY	36111	Ulster, NY
NY	36119	Westchester, NY
NY (GL)	36009	Cattaraugus, NY
NY (GL)	36011	Cayuga, NY
NY (GL)	36013	Chautauqua, NY
NY (GL)	36019	Clinton, NY
NY (GL)	36029	Erie, NY
NY (GL)	36033	Franklin, NY
NY (GL)	36037	Genesee, NY
NY (GL)	36041	Hamilton, NY
NY (GL)	36043	Herkimer, NY
NY (GL)	36045	Jefferson, NY
NY (GL)	36049	Lewis, NY
NY (GL)	36051	Livingston, NY
NY (GL)	36055	Monroe, NY
NY (GL)	36063	Niagara, NY
NY (GL)	36067	Onondaga, NY
NY (GL)	36069	Ontario, NY
NY (GL)	36073	Orleans, NY
NY (GL)	36075	Oswego, NY
NY (GL)	36089	St. Lawrence, NY
NY (GL)	36117	Wayne, NY
NY (GL)	36121	Wyoming, NY
OH	39005	Ashland, OH
OH	39007	Ashtabula, OH
OH	39033	Crawford, OH
OH	39035	Cuyahoga, OH
OH	39039	Defiance, OH
OH	39043	Erie, OH
OH	39051	Fulton, OH
OH	39055	Geauga, OH
OH	39063	Hancock, OH

OH	39069	Henry, OH
OH	39077	Huron, OH
OH	39085	Lake, OH
OH	39093	Lorain, OH
OH	39095	Lucas, OH
OH	39101	Marion, OH
OH	39103	Medina, OH
OH	39123	Ottawa, OH
OH	39133	Portage, OH
OH	39143	Sandusky, OH
OH	39147	Seneca, OH
OH	39153	Summit, OH
OH	39155	Trumbull, OH
OH	39173	Wood, OH
OH	39175	Wyandot, OH
OR	41003	Benton, OR
OR	41005	Clackamas, OR
OR	41007	Clatsop, OR
OR	41009	Columbia, OR
OR	41011	Coos, OR
OR	41015	Curry, OR
OR	41019	Douglas, OR
OR	41033	Josephine, OR
OR	41039	Lane, OR
OR	41041	Lincoln, OR
OR	41051	Multnomah, OR
OR	41057	Tillamook, OR
PA	42001	Adams, PA
PA	42011	Berks, PA
PA	42017	Bucks, PA
PA	42029	Chester, PA
PA	42045	Delaware, PA
PA	42071	Lancaster, PA
PA	42075	Lebanon, PA
PA	42077	Lehigh, PA
PA	42091	Montgomery, PA
PA	42101	Philadelphia, PA
PA	42107	Schuylkill, PA
PA	42133	York, PA
PA (GL)	42049	Erie, PA
RI	44001	Bristol, RI
RI	44003	Kent, RI
RI	44005	Newport, RI
RI	44007	Providence, RI
RI	44009	Washington, RI
SC	45005	Allendale, SC
SC	45013	Beaufort, SC
SC	45015	Berkeley, SC



SC	45019	Charleston, SC
SC	45025	Chesterfield, SC
SC	45027	Clarendon, SC
SC	45029	Colleton, SC
SC	45031	Darlington, SC
SC	45033	Dillon, SC
SC	45035	Dorchester, SC
SC	45041	Florence, SC
SC	45043	Georgetown, SC
SC	45049	Hampton, SC
SC	45051	Horry, SC
SC	45053	Jasper, SC
SC	45055	Kershaw, SC
SC	45057	Lancaster, SC
SC	45061	Lee, SC
SC	45067	Marion, SC
SC	45069	Marlboro, SC
SC	45085	Sumter, SC
SC	45089	Williamsburg, SC
TX	48007	Aransas, TX
TX	48015	Austin, TX
TX	48025	Bee, TX
TX	48039	Brazoria, TX
TX	48047	Brooks, TX
TX	48057	Calhoun, TX
TX	48061	Cameron, TX
TX	48071	Chambers, TX
TX	48089	Colorado, TX
TX	48123	De Witt, TX
TX	48131	Duval, TX
TX	48149	Fayette, TX
TX	48157	Fort Bend, TX
TX	48167	Galveston, TX
TX	48175	Goliad, TX
TX	48201	Harris, TX
TX	48215	Hidalgo, TX
TX	48239	Jackson, TX
TX	48241	Jasper, TX
TX	48245	Jefferson, TX
TX	48247	Jim Hogg, TX
TX	48249	Jim Wells, TX
TX	48261	Kenedy, TX
TX	48273	Kleberg, TX
TX	48285	Lavaca, TX
TX	48291	Liberty, TX
TX	48297	Live Oak, TX
TX	48321	Matagorda, TX
TX	48351	Newton, TX

TX	48355	Nueces, TX
TX	48361	Orange, TX
TX	48391	Refugio, TX
TX	48409	San Patricio, TX
TX	48427	Starr, TX
TX	48457	Tyler, TX
TX	48469	Victoria, TX
TX	48473	Waller, TX
TX	48477	Washington, TX
TX	48479	Webb, TX
TX	48481	Wharton, TX
TX	48489	Willacy, TX
VA	51001	Accomack, VA
VA	51007	Amelia, VA
VA	51011	Appomattox, VA
VA	51013	Arlington, VA
VA	51029	Buckingham, VA
VA	51033	Caroline, VA
VA	51036	Charles City, VA
VA	51041	Chesterfield, VA
VA	51049	Cumberland, VA
VA	51053	Dinwiddie, VA
VA	51057	Essex, VA
VA	51059	Fairfax, VA
VA	51061	Fauquier, VA
VA	51065	Fluvanna, VA
VA	51073	Gloucester, VA
VA	51075	Goochland, VA
VA	51085	Hanover, VA
VA	51087	Henrico, VA
VA	51093	Isle of Wight, VA
VA	51095	James City, VA
VA	51097	King and Queen, VA
VA	51099	King George, VA
VA	51101	King William, VA
VA	51103	Lancaster, VA
VA	51109	Louisa, VA
VA	51115	Mathews, VA
VA	51119	Middlesex, VA
VA	51127	New Kent, VA
VA	51131	Northampton, VA
VA	51133	Northumberland, VA
VA	51135	Nottoway, VA
VA	51137	Orange, VA
VA	51145	Powhatan, VA
VA	51147	Prince Edward, VA
VA	51149	Prince George, VA
VA	51153	Prince William, VA

VA	51159	Richmond, VA
VA	51177	Spotsylvania, VA
VA	51179	Stafford, VA
VA	51181	Surry, VA
VA	51193	Westmoreland, VA
VA	51199	York, VA
VA	51510	Alexandria, VA
VA	51550	Chesapeake, VA
VA	51570	Colonial Heights, VA
VA	51600	Fairfax, VA
VA	51610	Falls Church, VA
VA	51630	Fredericksburg, VA
VA	51650	Hampton, VA
VA	51670	Hopewell, VA
VA	51683	Manassas, VA
VA	51685	Manassas Park, VA
VA	51700	Newport News, VA
VA	51710	Norfolk, VA
VA	51730	Petersburg, VA
VA	51735	Poquoson, VA
VA	51740	Portsmouth, VA
VA	51760	Richmond, VA
VA	51800	Suffolk, VA
VA	51810	Virginia Beach, VA
VA	51830	Williamsburg, VA
WA	53009	Clallam, WA
WA	53011	Clark, WA
WA	53015	Cowlitz, WA
WA	53027	Grays Harbor, WA
WA	53029	Island, WA
WA	53031	Jefferson, WA
WA	53033	King, WA
WA	53035	Kitsap, WA
WA	53041	Lewis, WA
WA	53045	Mason, WA
WA	53049	Pacific, WA
WA	53053	Pierce, WA
WA	53055	San Juan, WA
WA	53057	Skagit, WA
WA	53059	Skamania, WA
WA	53061	Snohomish, WA
WA	53067	Thurston, WA
WA	53069	Wahkiakum, WA
WA	53073	Whatcom, WA
WI	55003	Ashland, WI
WI	55007	Bayfield, WI
WI	55009	Brown, WI
WI	55015	Calumet, WI

WI	55029	Door, WI
WI	55031	Douglas, WI
WI	55037	Florence, WI
WI	55039	Fond du Lac, WI
WI	55041	Forest, WI
WI	55051	Iron, WI
WI	55059	Kenosha, WI
WI	55061	Kewaunee, WI
WI	55071	Manitowoc, WI
WI	55075	Marinette, WI
WI	55078	Menominee, WI
WI	55079	Milwaukee, WI
WI	55083	Oconto, WI
WI	55087	Outagamie, WI
WI	55089	Ozaukee, WI
WI	55101	Racine, WI
WI	55115	Shawano, WI
WI	55117	Sheboygan, WI
WI	55131	Washington, WI