

Time Related Environmental Numeric Health Database Version 2



Produced by
Passamaquoddy Tribe
Indian Township
in cooperation with TBEP
(the Tribal Based
Environmental Protection
Subcommittee)



Funded by US EPA
Jim Bryson, Project Director
(617) 918-1524



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TRENHD –Version 2

Summary and Description of New Features

October 2001



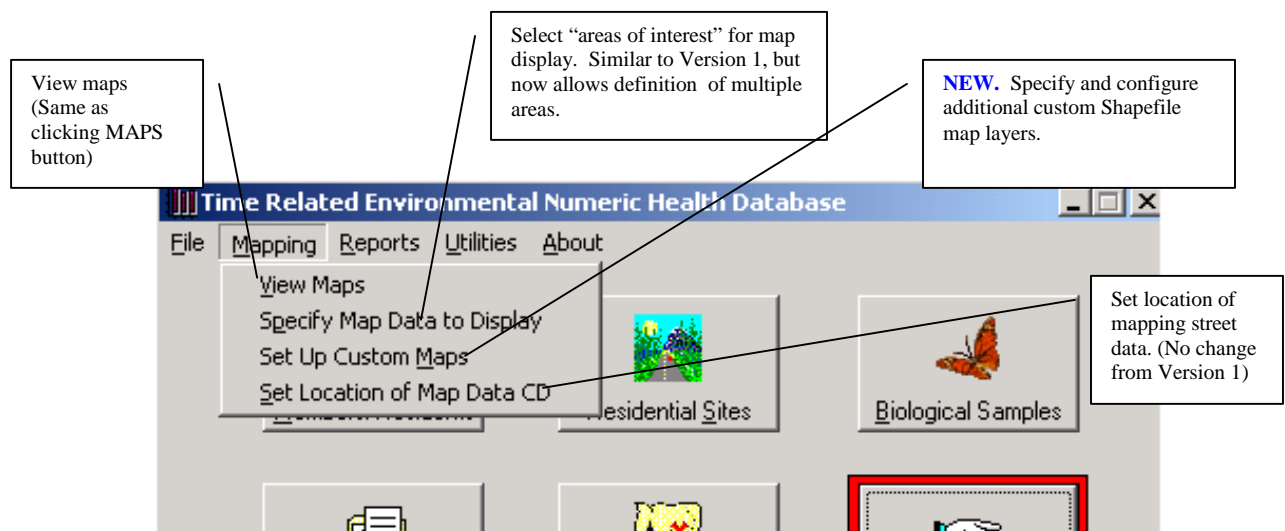
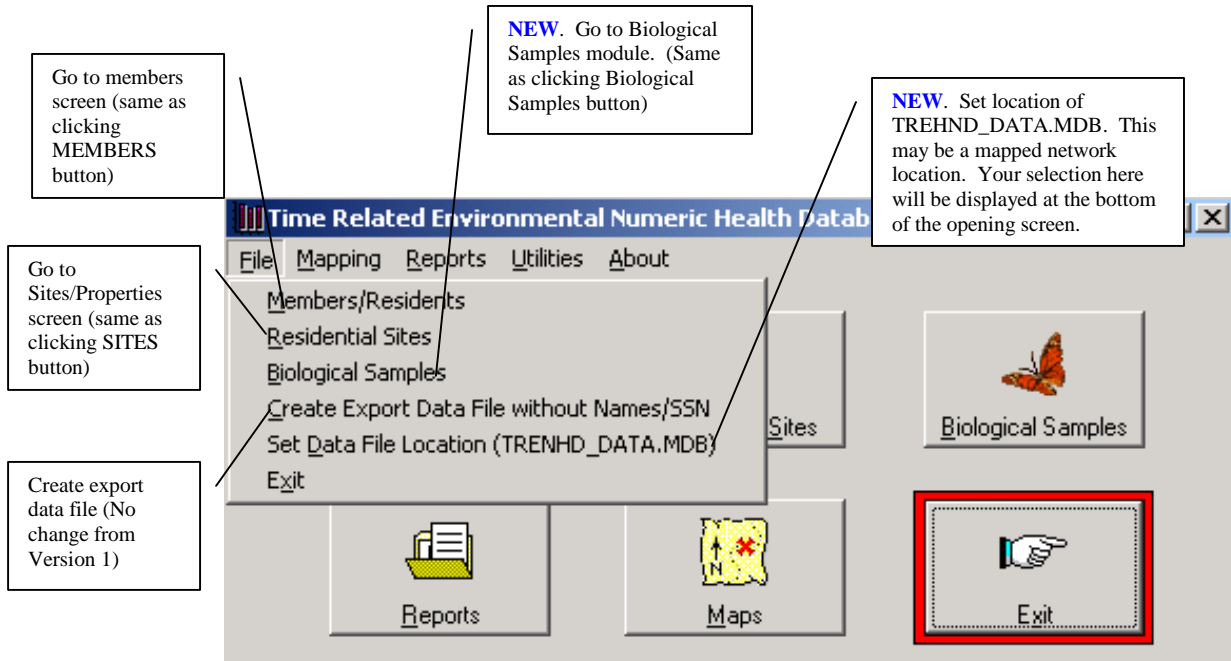
Changes and new features in Version 2

- ❑ Menus on the main screen have been reorganized for clarity and ease of use
- ❑ Addition of Biological Sampling Module
- ❑ Users may add their own overlay layer (if available in standard ESRI Shapefile format) to a map
- ❑ Multiple map “areas of interest” may be quickly defined and selected.
- ❑ The location of the TRENHD_DATA.MDB data file may be modified and, if desired shared among networked users.
- ❑ TRENHD now allows for the storage and display of photos for members, sites and samples.
- ❑ New reports have been added
- ❑ Users may modify the colors of displayed map points.
- ❑ The map legend has been updated to show TWO biological samples with up to 10 quantitative ranges per sample type
- ❑ Placing the cursor on a plotted map point and RIGHT clicking now summarizes ALL activity at that location including lab tests for all members who ever lived there, all site surveys done at that location, and all biological samples taken at those coordinates.
- ❑ The licensing method has been changed to a Registration Name and Code system so that updates can be distributed without having to compile customized versions for each licensed user.
- ❑ Some screens have gotten a bit more complex so support for 640 x 480 VGA displays has been dropped. The minimum resolution for TRENHD is now 800 x 600. TRENHD will detect your current settings and warn you if they do not meet the minimum requirement.
- ❑ The FTP file transfer menu item in Version 1 has been eliminated. This feature was never used. Data exchange between users will be managed through a conventional web page.

Details for each of these changes are included in the pages that follow.

Reorganization of menu items on the main screen

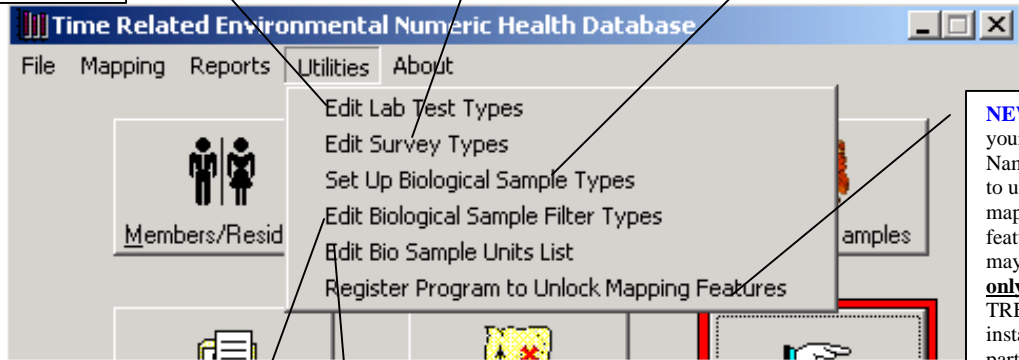
Menu items have been regrouped and organized by function in a more logical fashion



Setup/edit member lab test file. No change from Version 1

Setup/edit site survey type file. No change from Version 1

NEW. Setup/edit biological sample types and display ranges.

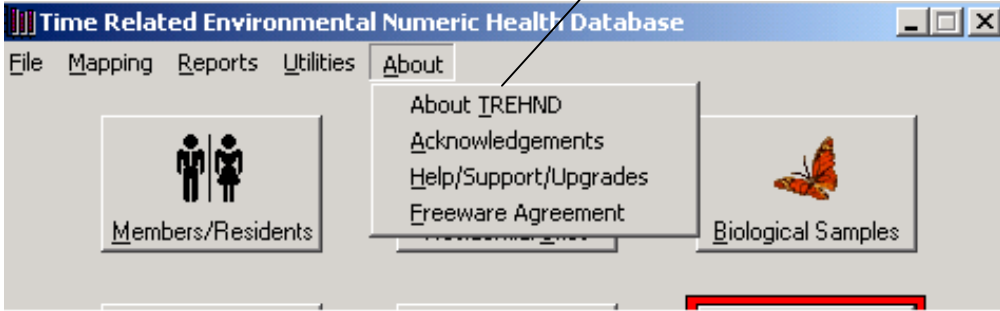


NEW Enter your Registration Name and Code to unlock mapping features. This may be done **only once** after TRENHD is installed on a particular computer.

NEW Biological Samples may also be categorized by up to TWO optional "filter" parameters. You create, edit and maintain your list of "filters" here

NEW Biological samples may have quantitative units specified for display purposes. Maintain your list of unit descriptions here.

There are no changes to the ABOUT menu from Version 1.



Installing TRENHD Version 2

New Installation

Place the TRENHD 2 CD in your CD drive and run SETUP.EXE. Follow the instructions on the screen.

Updating a previous installation of Version 1

You will be given a new copy of TRENHD.EXE. Find the folder in which you installed Version 1 (by default this will be “C:\Program Files\Bluejay Software\TRENHD”). Copy the new TRENHD.EXE to this folder and answer YES when you are asked if you wish to overwrite the TRENHD.EXE that is currently there.

The first time you run TRENHD.EXE, it will automatically examine your existing data files and add the tables and fields necessary for compatibility with Version 2.

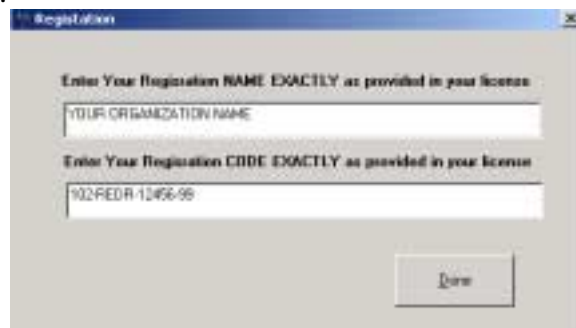
Licensing/Registration and unlocking mapping features.

Some components of the TRENHD program are licensed from a third party and cannot be freely distributed. For this reason, the mapping features are disabled until you complete the licensing/registration procedure.

EVEN IF YOU ARE A FULLY LICENSED USER OF VERSION 1, THE MAPPING FEATURES OF VERSION 2 WILL NOT BE AVAILABLE UNTIL THIS PROCESS IS COMPLETED.

Please contact Jim Bryson at USEPA, Boston MA (617) 918-1524 for information on how to obtain a fully licensed version.

Fully licensed users will be given a Registration NAME and CODE. Start the TRENHD 2 program and select “Register Program to Unlock Mapping Features” from the UTILITY menu.



It is a violation of your licensing agreement to share your registration information with anyone else

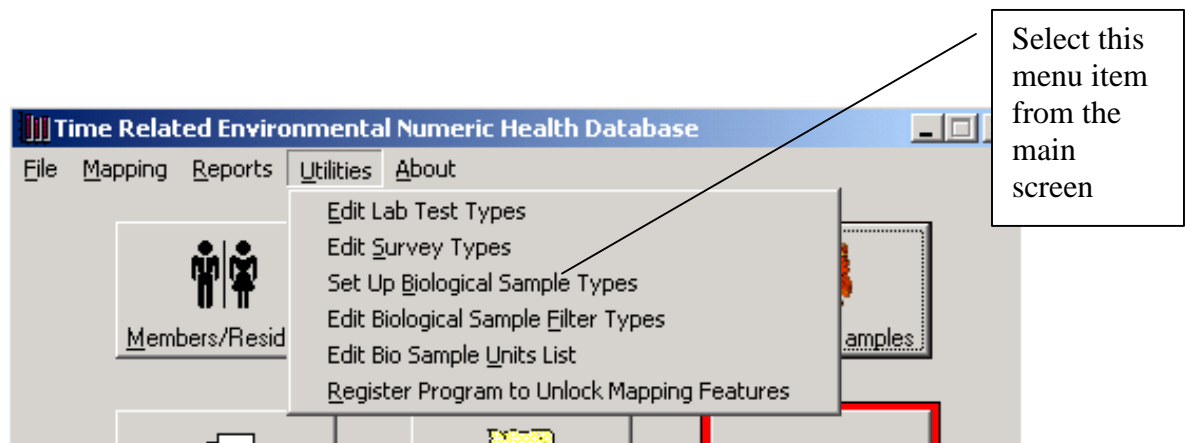
Your Registration Name will be displayed on the opening screen.

The Biological Sampling Module

The biological sampling module provides a method for taking any kind of sample from any location, assigning a quantitative value to it, and displaying the various values by defined ranges on a map. This was possible in the previous version only by specifically defining each sampling point as a residential “site” or “property” and defining site surveys. It was also difficult to display quantitative sample results within defined ranges.

The biological sampling module simplifies this procedure, eliminates the necessity to predefine sampling sites, and allows the user to display the results within user-defined ranges on the maps.

Setting up Biological Sample Types and Display Ranges



You may define as many sample types as you wish. All sample types defined here will be available as choices in the drop-down lists on the Biological Samples and map screens.

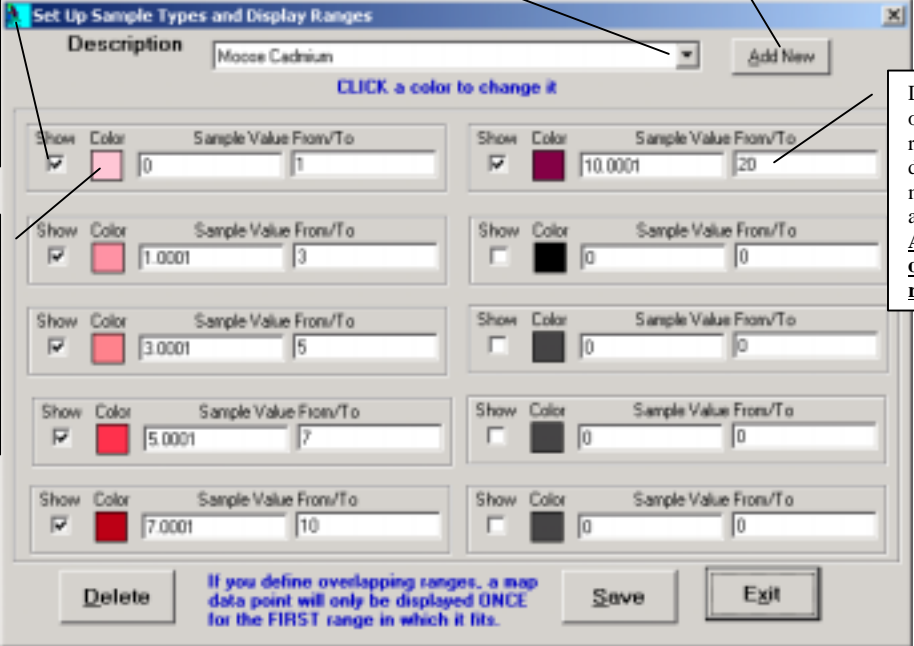
Select an already defined Sample Type

Click to create a new Sample Type


Only defined ranges with a check here will be displayed on the maps.

Click any color to open a dialog box, which allows you to select a color from a standard palette or define custom colors

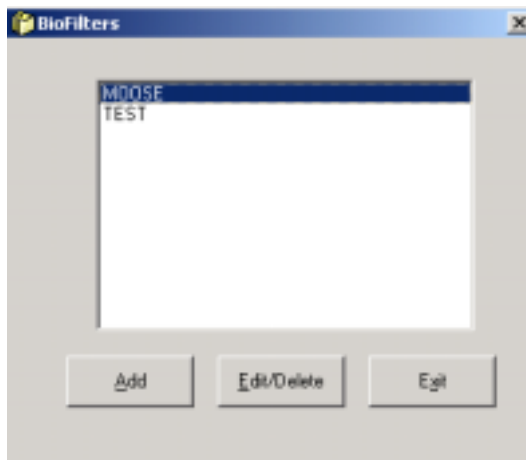
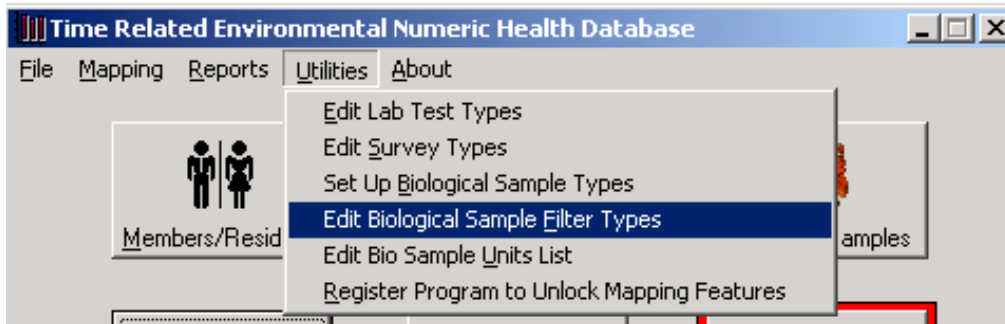
Define the range of sample test results to be displayed on the map with the assigned color. **Avoid defining overlapping ranges.**



This screen appears when you click any of the color boxes above. You may assign any of the colors to each range or define your own custom colors.

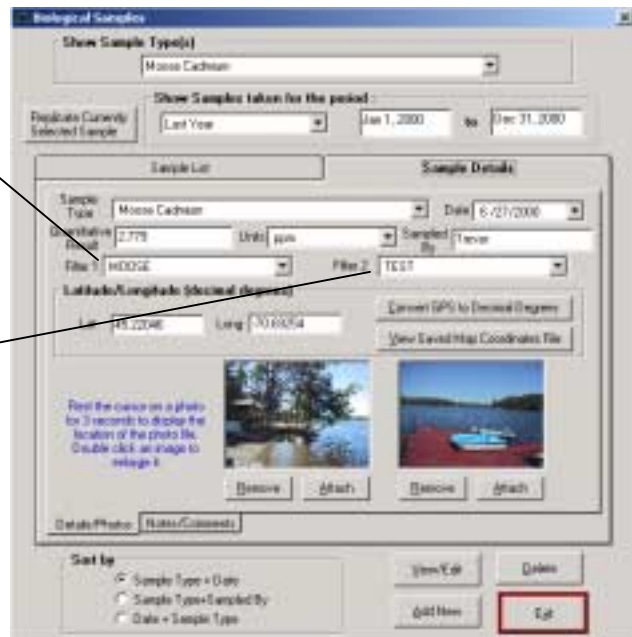


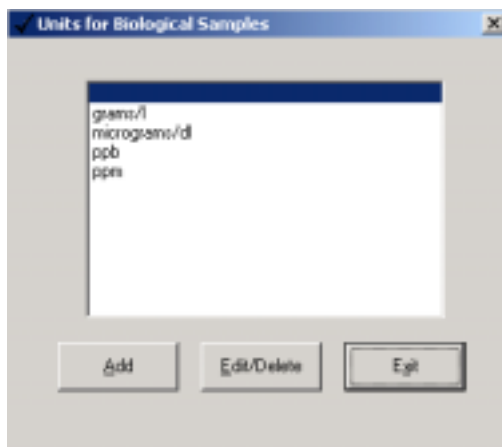
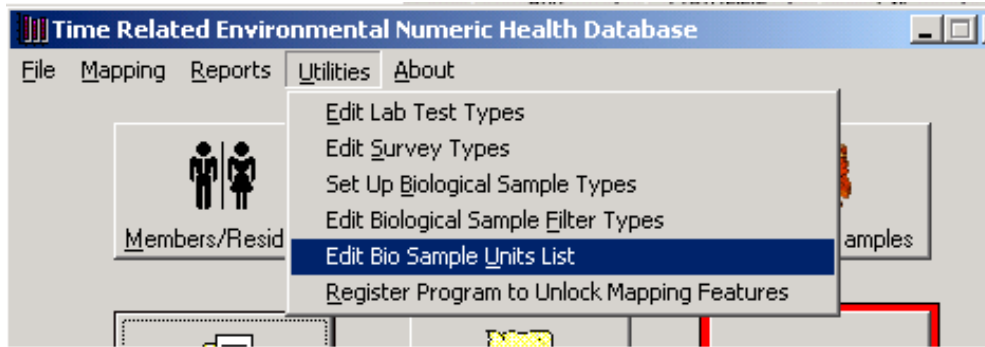
Setting Up Your UNITS and FILTERS for Biological Samples



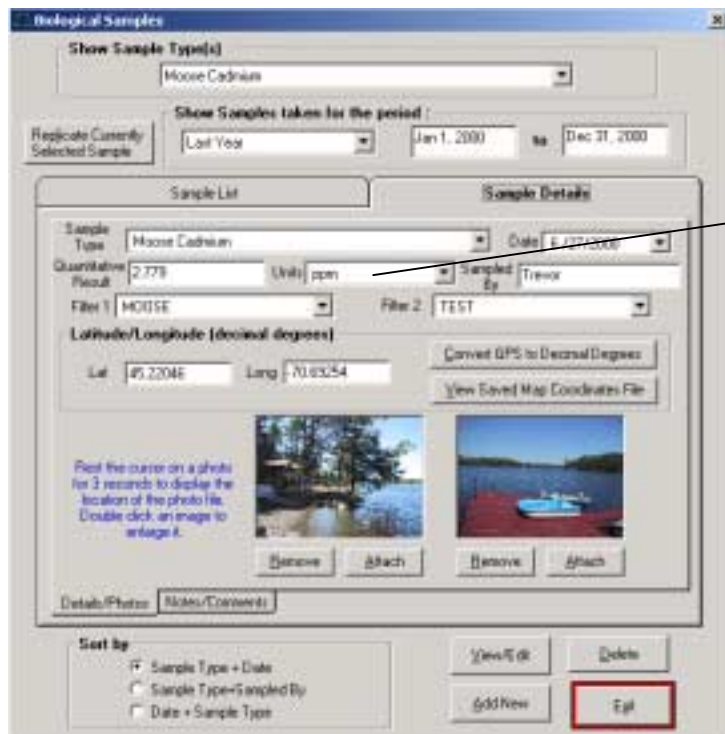
You may define as many “filters” as you wish. These are additional parameters, which you may use to further refine your reporting and display of map points. Each Biological Sample may have up to TWO “filters”, which are drawn from a common list of filters, defined here. The optional “filter(s)” are saved with each Biological Sample transaction. These may be locations, animal or plant types, sampling technique or depth, or anything that is meaningful to you and which you might use to define your reports.

You may select from your list of filters here. You may assign up to TWO filters per sample. Use of filters is optional.



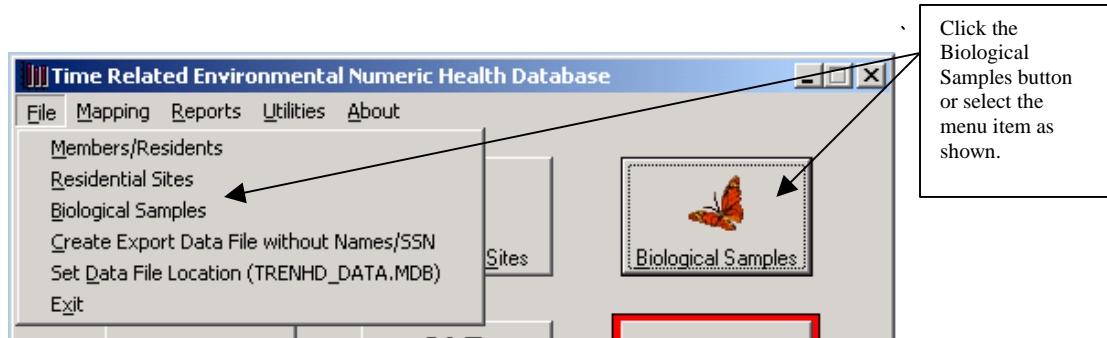


Enter whatever units you wish to describe the results of your Biological Samples. These will be used for display purposes and will be available from a drop down list on the Biological Samples screen.



Select Units here.

Entering Your Biological Samples



Click here to select a row for editing or deletion.

Select the type of samples that you wish to display here. You may select the *****ShowAll***** option to see them all

Select the range of sample dates to display.

Displays a list of samples, which meet the type and date selection criteria above.

Click to change the way the selected samples are sorted in the list.

Sample Type	Date	Result	Sampled By	Latitude	Longitude
Moose Cadmium	06/07/2000	3.3003	Trevor	45.2919	-70.58895
Moose Cadmium	06/27/2000	2.779	Trevor	45.22046	-70.68254
Moose Cadmium	06/27/2000	2.192	Trevor	45.27435	-70.59879
Moose Cadmium	06/27/2000	5.863	Trevor	45.24113	-70.67783
Moose Cadmium	06/27/2000	5.95	Trevor	46.20958	-68.7961
Moose Cadmium	06/27/2000	2.774	Trevor	45.56537	-68.63019
Moose Cadmium	06/27/2000	6.533	Trevor	45.51741	-70.56283
Moose Cadmium	06/27/2000	3.432	Trevor	45.83585	-70.30408
Moose Cadmium	06/27/2000	0.288	Trevor	45.30491	-67.6457
Moose Cadmium	06/27/2000	4.143	Trevor	45.26434	-67.64875
Moose Cadmium	06/27/2000	3.296	Trevor	45.27175	-67.59894
Moose Cadmium	06/27/2000	7.697	Trevor	45.4539	-68.62257
Moose Cadmium	06/27/2000	8.517	Trevor	45.24442	-70.58238
Moose Cadmium	06/27/2000	4.283	Trevor	45.26434	-67.64875
Moose Cadmium	06/27/2000	3.296	Trevor	45.27175	-67.59894
Moose Cadmium	11/06/2000	0.952	Trevor	45.29969	-67.67909
Moose Cadmium	11/27/2000	3.774	Trevor	45.11568	-68.63744
Moose Cadmium	11/27/2000	6.265	Trevor	46.16284	-68.70514

Select the type of sample from the list defined as shown above. This selection is independent of the "Show Sample Types" drop down list at the top of this form.

Click the Sample Details tab (or the "View/Edit" button below) to view or change information on the selected sample. This screen also appears when the "Add New" button is clicked.

Enter (or modify) information about the sample. You may also attach up to two pictures per sample. These functions are similar to those in other sections of the TRENHD program

Click this tab to enter (or drag/drop) any notes regarding this sample.

Displaying Biological Samples on the maps

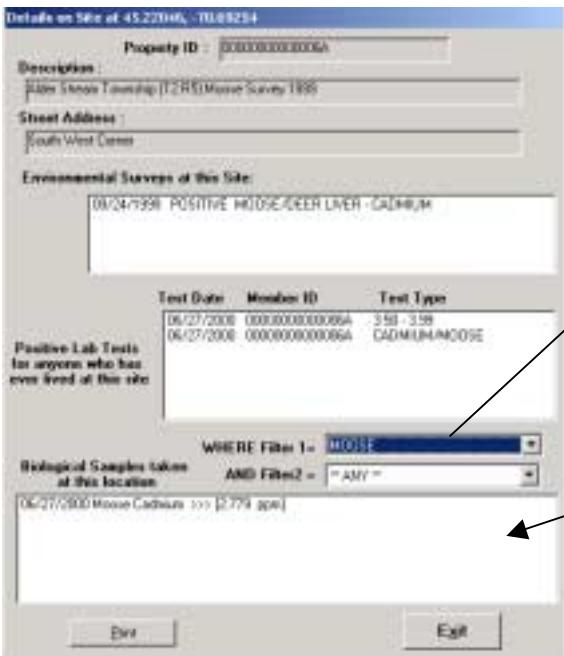
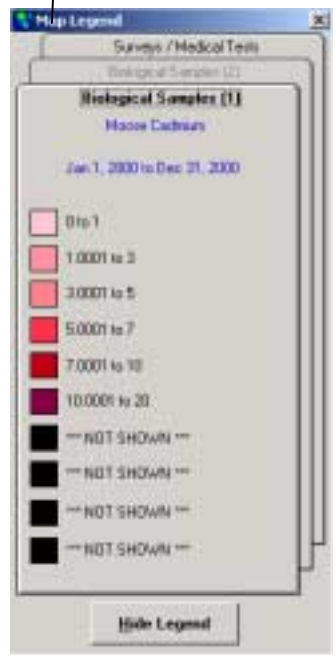
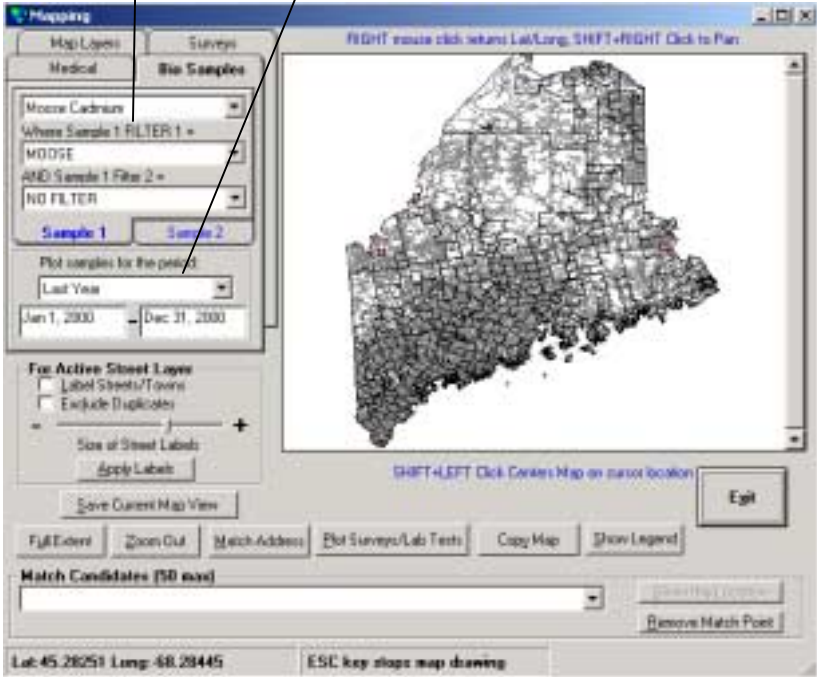
Up to two separate biological samples can be simultaneously displayed on the maps. This is in addition to the Site survey and medical lab test plotting, which is unaffected by the changes from TRENHD Version 1.

The changes to the mapping screen, which are relevant to the biological sampling module, are highlighted in the screen images and descriptions below.

A new Bio Samples tab has been added. Up to TWO previously defined Biological Sample types may be selected from the drop down lists. You may also specify any of the "filters" you have defined to further define the types of points you wish to display.

Select the range of sampling dates to display

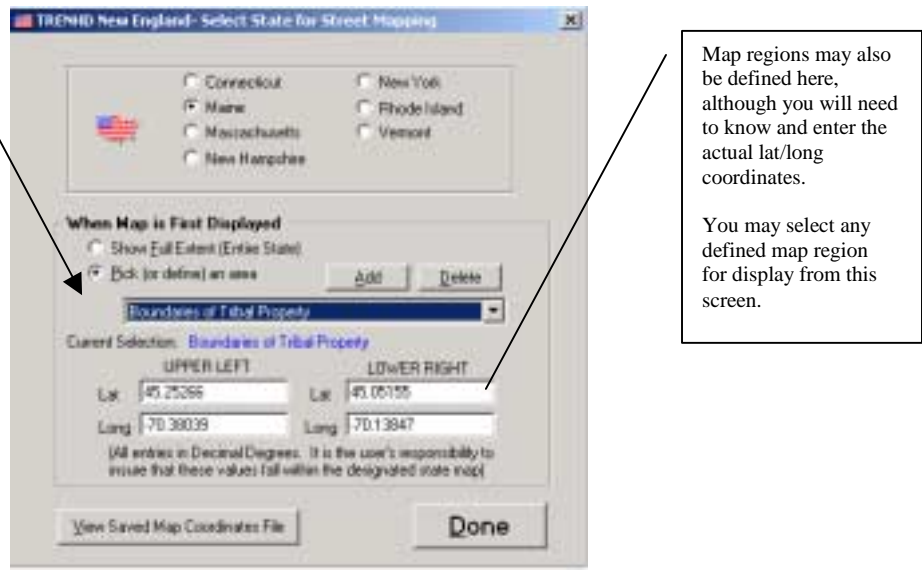
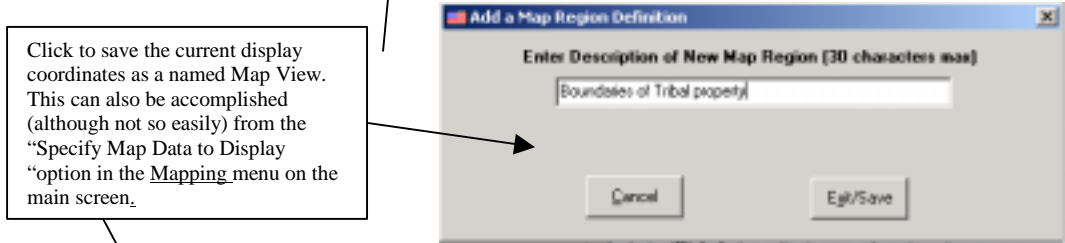
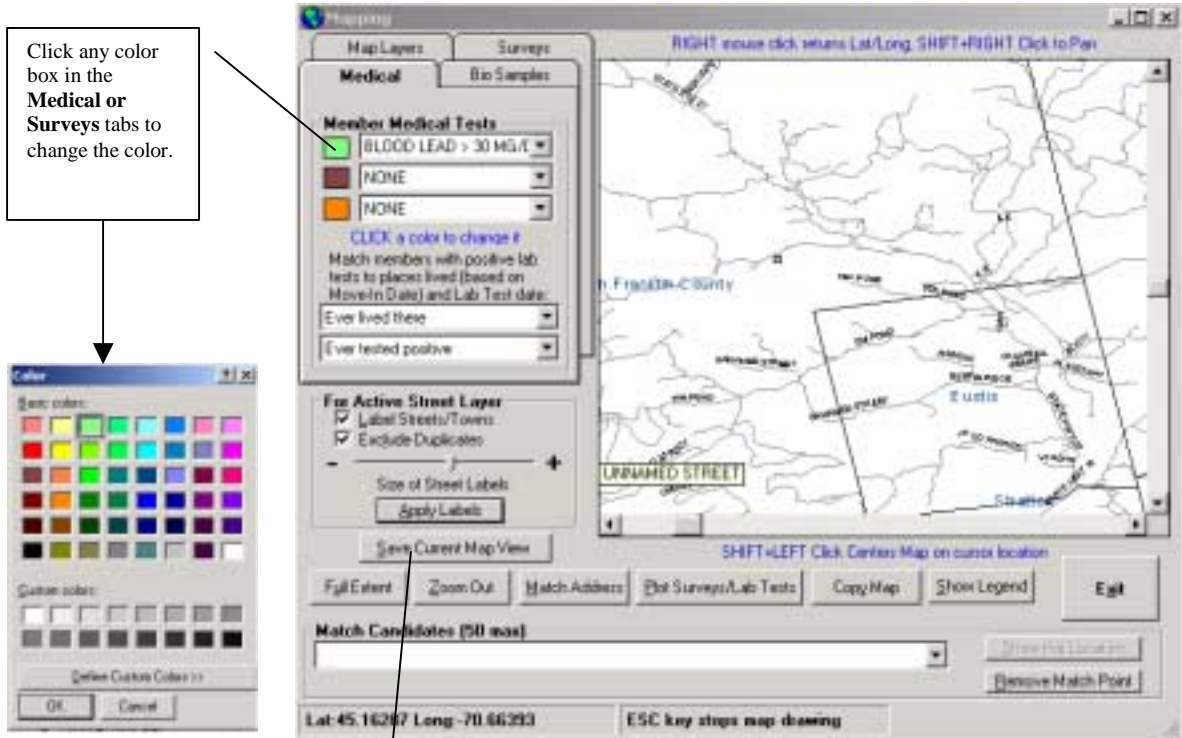
The map legend has been modified to allow viewing up to 2 biological samples. The colors and ranges are as defined when the bio sample type was created. Any ranges which are not checked on the sample definition screen are displayed as "NOT SHOWN" here and will NOT appear on the map.



When you RIGHT click on a map point, the detail information on environmental activity at that location has been modified to now include biological sampling data.

You may further refine the display of biological samples by selecting any of the "filters" which you have defined.

Map Point Colors For Site Surveys and Medical information may now be modified.

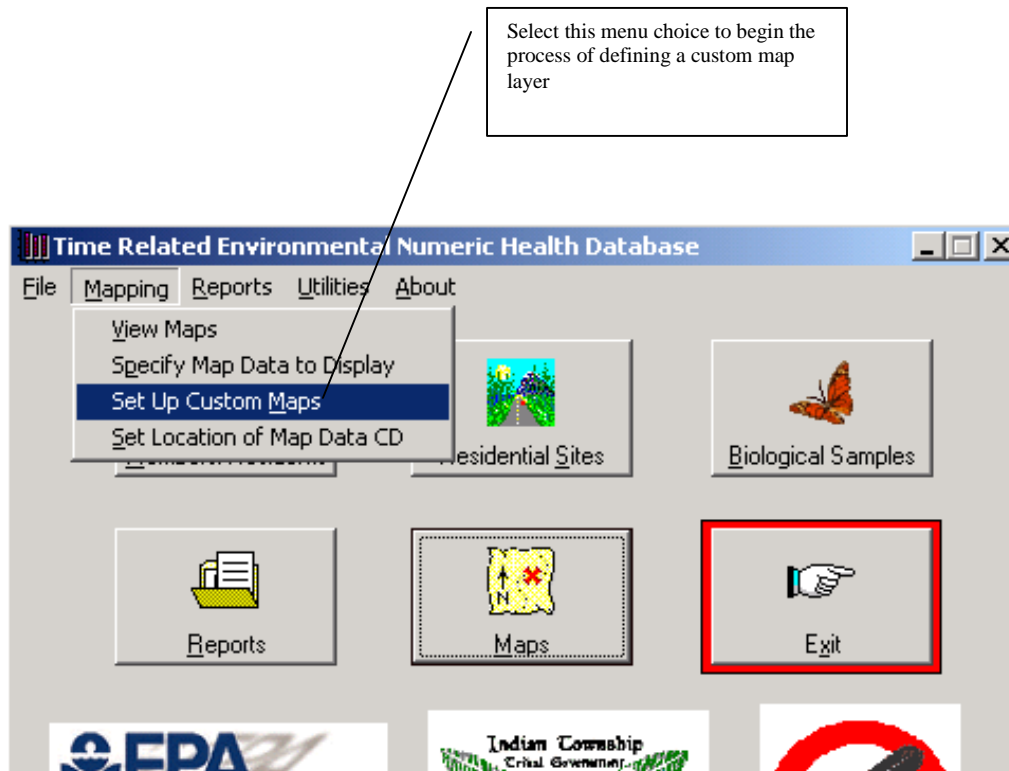


Adding a Custom Map Layer to the map display

New in Version 2 is the ability to add a custom map layer to any of the predefined map displays by state or Display Area. In order to preserve the existing functionality of the program, there are some rules and limitations on this feature.

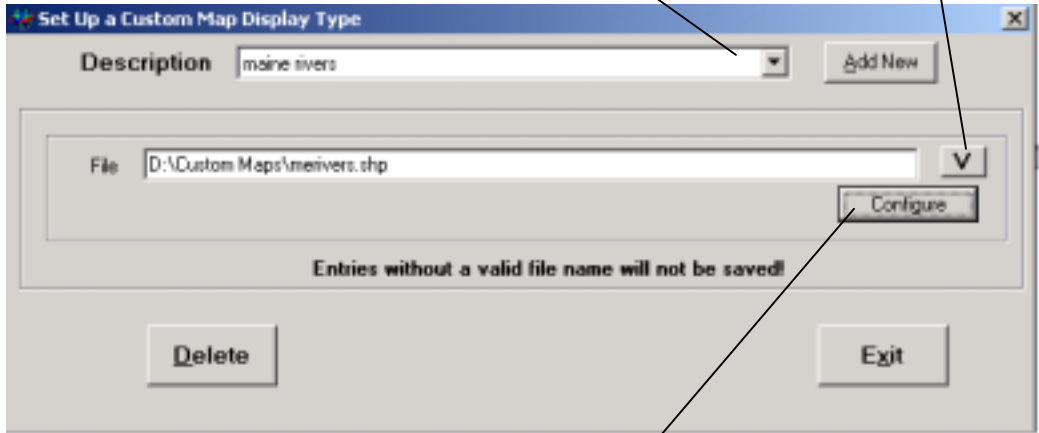
In general, you may add an ESRI (Environmental Systems Research Institute) “shapefile” of type *Polygon*, *Point* or *Line*. A full discussion of shapefiles is beyond the scope of this document. Briefly, a shapefile is a commonly used specification for storing vector data. Actually, a “shapefile” is THREE files -a Geometric Shapes file (.shp), a Spatial Index file (.shx) and Attribute data (.dbf). The street and zip boundary layers that are included with the fully licensed version of TRENHD are shapefiles.

TRENHD Version 2 is able to determine the type of shapefile that you are proposing to add to a map display. Once the type is detected, you will be able to configure various characteristics of how that file is displayed. For instance, if your file is of the Polygon type, you can specify the colors of the shapes and outlines, the type of fill style to use, outline width, etc.

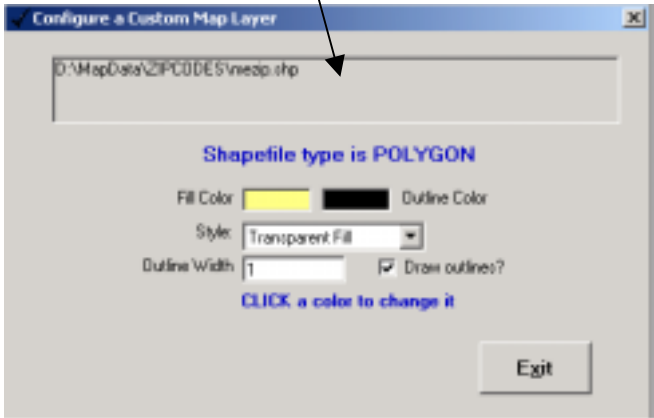
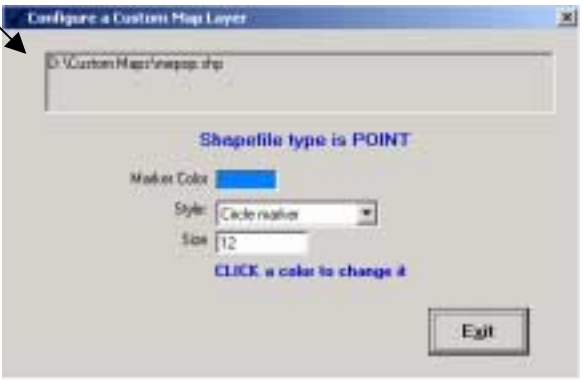
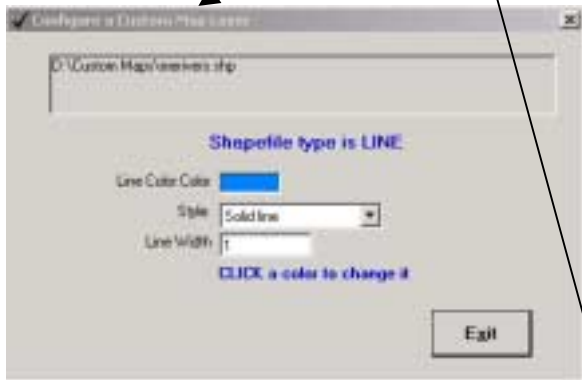


Select a description of a previously defined custom layer or click ADD NEW to define a new one.

Click here to browse to the folder containing the shapefile you wish to add.

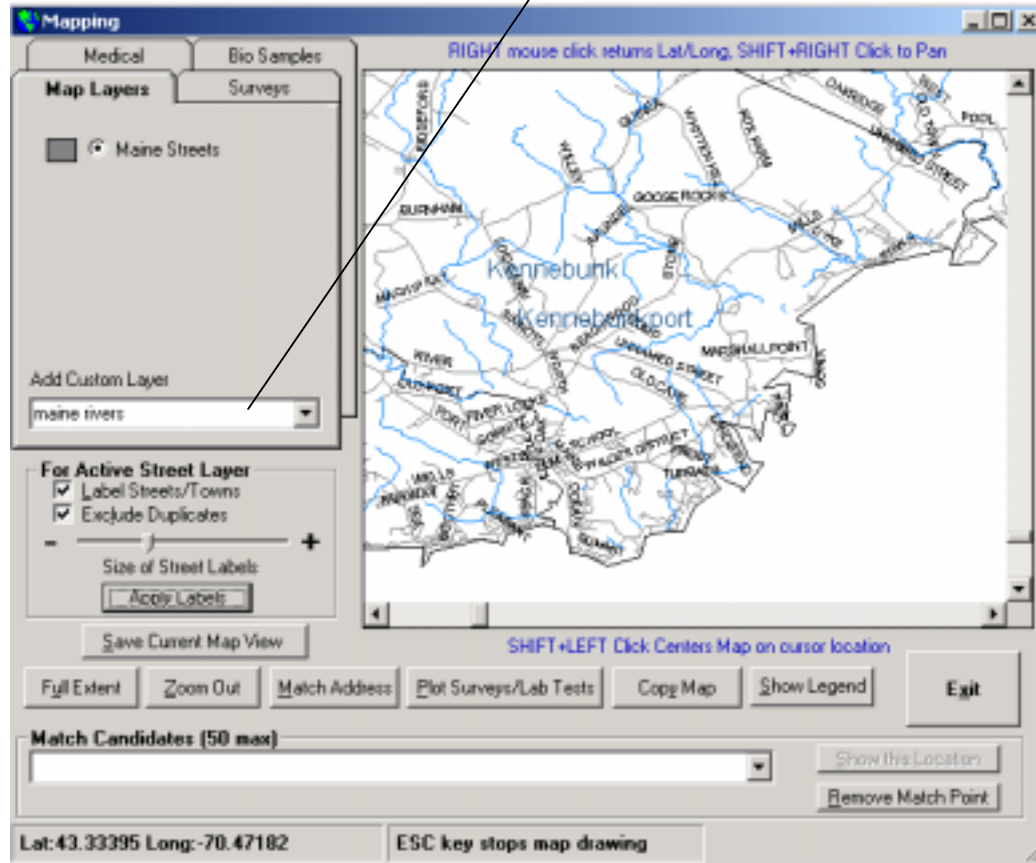


Once a shapefile is selected, you may click the CONFIGURE button. TRENHD will try to determine the type of shapefile and will display one of the following screens, where you may select options.



Displaying a defined Custom map layer

All defined custom layers are available in the drop down lists. It is up to the user to make sure that these are within the extent of the already defined state or region.



Other new features in Version 2

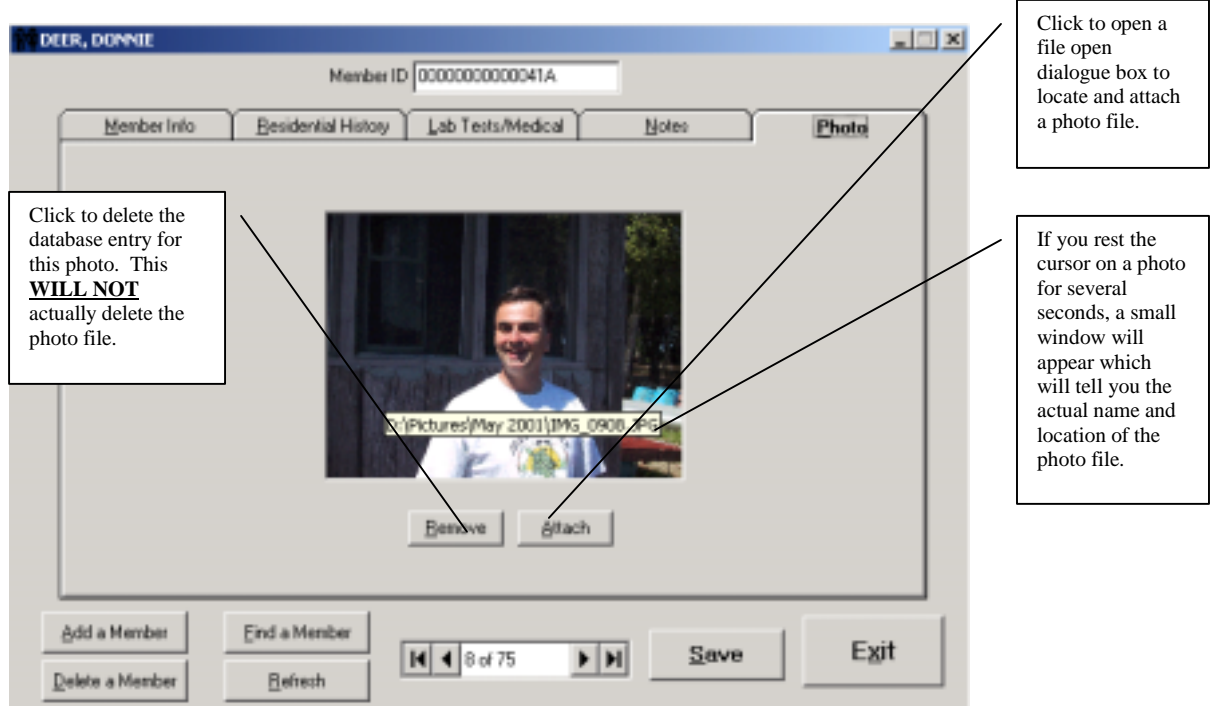
You may attach a digital photograph to each Member or Site. These photos may be viewed on-screen

Photographs must be in digital format (we recommend using JPG format, as other file types like BMP may get quite large). You may use photo files directly from your digital camera or you may use scanned photos. Photos in the standard 1:1.3 aspect ratio are assumed (e.g. 320 x 240, 640 x 480, 800 x 600, or 1024 x 768 pixels)

TRENHD does NOT actually embed the photo in the database. Instead it saves a “pointer” to the photo file. In other words, the TRENHD_DATA.MDB database contains a text string that is the path and filename for the photo file on your computer or network. For example, you may see something like

“D:\My Documents\Photos \IMG_012.JPG”.

TRENHD does this to avoid making the database huge and unwieldy. Be aware that, if TRENHD does not find a photo where you say it is, it will display a warning message. If you are transferring TRENHD data between users, you will also have to send them any associated photo files.. These files must be placed in EXACTLY the same folder names as the originals (or the user will have to edit the members or sites accordingly to reassign them).



Reports –

TRENHD Version 2 contains several new reports

Documentation for these is not yet complete.

