

**SOUTHEAST UNITED STATES HURRICANE EVACUATION TRAFFIC STUDY**  
**Evacuation Traffic Information System (ETIS)**  
**Training Document (Draft)**

Prepared for



**US Army Corps of Engineers, Mobile District**

and



**United States Department of Transportation**

Prepared by



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## Accessing the Evacuating Traffic Information System

The program may be accessed over the Internet. The WEB address for the home page is [www.fhwaetis.com](http://www.fhwaetis.com). Once at the home page menu, select **Login to ETIS** to enter the program. Also, located on the home page are links to Federal and State agencies, and all documentation of the *Southeast United States Hurricane Evacuation Traffic Study*. The documents may be printed at any time.

The screenshot shows the ETIS Phase 4 web application interface. The browser window title is "ETIS Phase 4". The page header includes "Evacuation Traffic Information System" and "ETIS". The main content area is divided into several sections:

- Login to ETIS**: A prominent link at the top left.
- User Documents**: Includes links for "Training Manual" and "Contacts".
- Generated Reports**: Lists reports such as "Traffic Count By State", "Traffic Volumes by Corridor", "Destination Percentages by City", and "Estimated State to State Traffic".
- County / Parish Data Input**: Includes "State to State Traffic Count" and "Traffic Situation Report".
- Southeast United States Reports**: Includes "Executive Summary", "Behavioral Studies", and "Reverse Lane Standards and ITS Strategies".
- What's new for 2003.....**: A section for updates.
- We need your help.**: A notice about broken links.
- Federal Agencies**: Links to "Federal Emergency Management Agency", "American Red Cross", "Federal Highway Administration", and "US Army Corps of Engineers".
- HurrEvac2000**: A specific report or document.
- State Agencies**: Lists links for various states including Alabama, Connecticut, Delaware, Florida, Georgia, Louisiana, Maine, Massachusetts, Mississippi, and New Jersey.

Callout lines from the bottom of the page point to specific sections:

- Study components/links to technical documentation**: Points to the "Generated Reports" and "Southeast United States Reports" sections.
- ELT Forms**: Points to the "County / Parish Data Input" section.
- Generated Reports based on currently entered data**: Points to the "Generated Reports" section.
- User Documents – Technical manual and contact information**: Points to the "User Documents" section.
- Login to the Evacuation Traffic Information System**: Points to the "Login to ETIS" link.

## Login to the Evacuating Traffic Information

Once the *Login to ETIS* link is selected, a login screen will appear. The login screen contains information about the current event. Using the pull-down menu select the user name. The user names are listed by agency or state. The passwords have been established and are available from each agency or state. After entering user name and password click on the *Login* button to enter the program. If problems with the screen resolution exist, select the *Check Resolution* option this will show the current resolution. Refer to the computers help files to modify the screen resolution.

ETIS Login -

File Edit View Favorites Tools Help

Address [http://tlygpz2k01/ETISp4/MCP\\_MAP/ETISLogin.asp](http://tlygpz2k01/ETISp4/MCP_MAP/ETISLogin.asp)

Links [Customize Links](#) [Free Hotmail](#) [Windows](#) [Windows Media](#)

Evacuation Traffic Information System

ETIS

**LOGIN TO ETIS**

Select User Name: Alabama

Enter Password:  Login

DATE: 3/10/2003  
CURRENT EVENT: **PBS&J ETIS Training**  
MESSAGE: **PBS&J Internal Training in Progress**

This Site was designed for a screen resolution of 1024 X 768 please click the button to verify your screen resolution.

Check Resolution

Done Local intranet

*User Name, Password and Login*

*Current Event Information*

*Check Screen Resolution*

## Evacuation Traffic Information System

Upon successful log in, the main map screen will appear. This is the screen from which the application is driven. The map displayed in the frame will show the current status of the event, based on the entered information. The **Map Frame** may show counties/parishes being evacuated, routes being closed and/or lanes being reversed. Counties/Parishes are displayed by category of the storm. Roadway volumes will be displayed based on congestion levels.

To the left of the map, there are a set of tabs; Status, Search, Legend, Help, Forms, Reports, and Plot.

The **Status** tab shows the current status of the event, three tables display county information such as committed counties/parishes, lane reversals, and road closures. A **Help** tab is available at all times that links to this Training Manual. A **Toolbar** located at the upper left-hand corner of the **Map Frame** and may be used for map navigation.

The screenshot displays the ArcIMS HTML 3.0 Viewer interface for the Evacuation Traffic Information System (ETIS). The browser window shows the URL `http://12.27.156.2/Phase4/MCP_MAP/viewer.asp`. The interface features a navigation toolbar at the top left, a map of the United States in the center, and three data tables on the left side. The 'STATUS' tab is selected, showing the 'CURRENT STATUS' section with the following data:

STATE	NAME	CAT	PRATE	VHCLS	TYPE
FL	Duval	4	90%	69,480	M
FL	Flagler	4	90%	13,680	M
FL	Nassau	3	90%	10,800	M
FL	St Johns	5	90%	46,080	M
GA	Camden	3	90%	4,140	M
GA	Chatham	2	90%	14,400	M
GA	Glynn	3	90%	12,600	M
GA	Mcintosh	2	90%	900	M
TOTAL:				8	172,080

Below the 'Evacuations' table are two other tables: 'Lane Reversals' and 'Route Closures'. The 'Lane Reversals' table has columns for STATE, DESCRIPTION, and INPUT DATE. The 'Route Closures' table has columns for STATE, CLOSED, FROM, TO, and INPUT DATE. The 'Route Closures' table shows one entry for FL, SR 100, I 10, closed on 3/10/03 at 3:25:29 PM. The map on the right shows the United States with a focus on the Southeast, where several counties in Florida and Georgia are highlighted in red. The 'Toolbar' is located at the top left of the map frame, and the 'Map Frame' is the main area displaying the map.

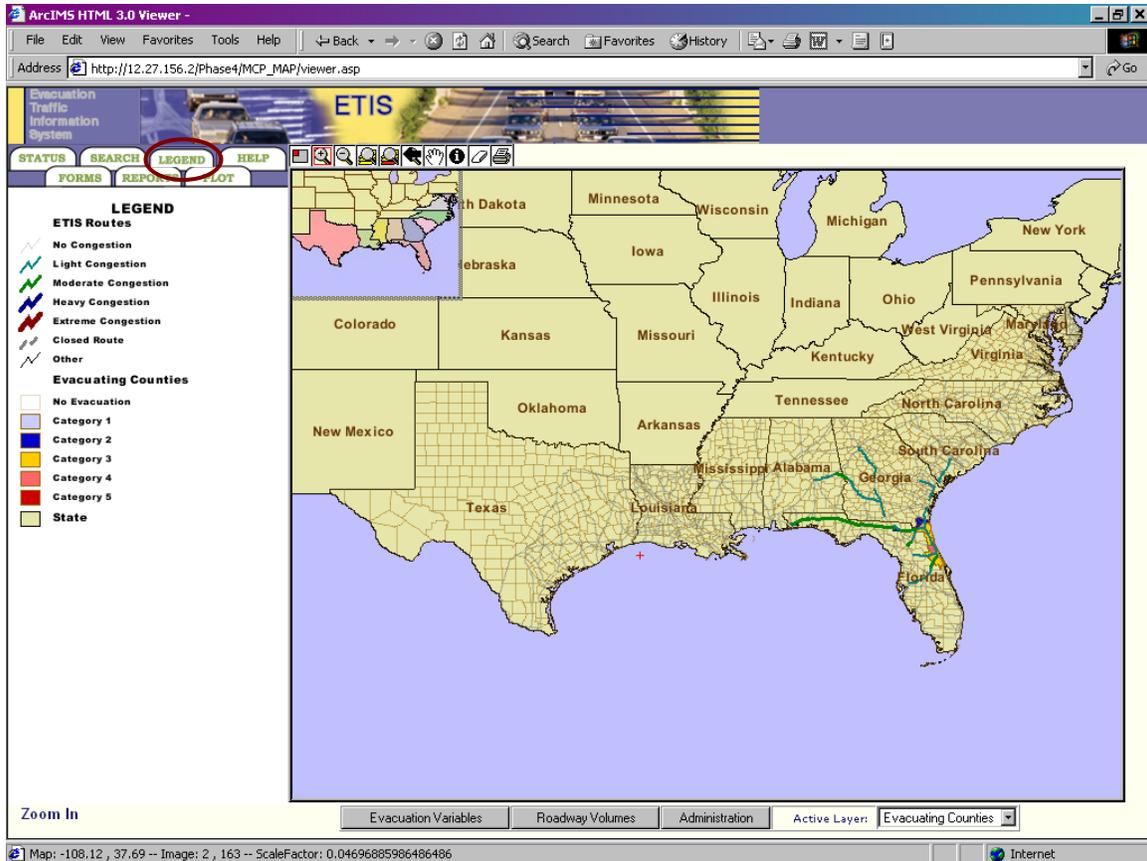
## Search

The **Search** tab will allow the user to quickly zoom to the area of interest. Once the **Search** tab is selected the panel below will appear. The user may search by *State*, *County*, *Roadway* or *Place*. After making a selection, click the **Find** to the right of your selection. The **Map Frame** will refresh to the chosen area. If the search finds more than one feature, a window will appear with a table. Select the feature of interest and the **Map Frame** will automatically refresh.

The screenshot displays the ArcIMS HTML 3.0 Viewer interface. The browser window title is "ArcIMS HTML 3.0 Viewer -" and the address bar shows "http://12.27.156.2/Phase4/MCP\_MAP/viewer.asp". The main content area is titled "Evacuation Traffic Information System" and "ETIS". A navigation menu at the top includes "STATUS", "SEARCH", "LEGEND", and "HELP". The "SEARCH" tab is selected and highlighted with a red circle. Below the menu is a search panel titled "ETIS SEARCH" with four search criteria: "State: Alabama", "County: Autauga - Alabama", "Roadway: Beeline Exp", and "Place: Abbeville". Each criterion has a "Find" button. A red bracket on the left side of the search panel is labeled "Search Area of Interest". The main map area shows a map of the United States with a red crosshair over the state of Alabama. The browser status bar at the bottom shows "Done" and "Internet".

## Legend

Once the **Legend** tab is selected, the legend will appear in the panel. The legend is dynamic, showing the data visible within the *Map Frame*.



## ELT Forms

ELT Forms may be printed at anytime. Select the **Forms** tab from the main map screen and then select the link of the form to be displayed. To print, use the print option under the file menu located on the Internet Explorer toolbar.

The screenshot shows the ArcIMS HTML 3.0 Viewer interface. The browser address bar displays `http://112.27.156.2/Phase4/mcp_map/viewer.asp`. The main content area features a map of the United States with a red box highlighting the Southeastern region. A sidebar on the left is titled "EVALUATION LIASON TEAM (ELT) FORMS" and contains the following menu items: "Traffic Situation Report", "County / Parish Data Input Form", "State to State Traffic Count Form", and "Contacts". The "FORMS" menu item is circled in red. To the left of the sidebar, there are two handwritten annotations: "ELT Forms" in red and "Participant List" in blue, with a bracket pointing to the "Contacts" menu item. The map interface includes a toolbar with navigation icons, a "Zoom In" button, and a layer selection dropdown menu currently set to "Evacuating Counties". The status bar at the bottom shows map coordinates and scale information.

Three ELT forms are available for printing. The first form is the traffic situation report, which allows states to report any traffic situations that have occurred during an evacuation. The second form is county/parish data input form. This form is used to designate input variables. The third form is the state to state traffic count form used to provide traffic count information.

The fourth menu option, **Contacts**, is a participant's list with phone numbers and addresses.

## Reports

The **Reports** tab allows reports to be generated based on current information that has been entered. The following pages show each report based on the current event.

The screenshot displays the ArcIMS HTML 3.0 Viewer interface for the ETIS (Evacuation Traffic Information System). The browser address bar shows the URL: [http://112.27.156.2/Phase4/mcp\\_map/viewer.asp](http://112.27.156.2/Phase4/mcp_map/viewer.asp). The application title is "Evacuation Traffic Information System". The main navigation menu includes "STATUS", "SEARCH", "SEND", and "HELP". Below this, there are tabs for "FORMS", "REPORTS" (which is circled in red), and "PLOT".

The "REPORTS" section is expanded, showing a list of "ETIS GENERATED REPORTS":

- Traffic Count By State
- Traffic Volumes by Corridor
- Destination Percentages by City
- Estimated State to State Traffic
- Plot Current Forecasted Congestion Levels

The main map area shows a map of the United States with state boundaries and names. A red rectangular box highlights the Southeastern United States, including Florida, Georgia, Alabama, and parts of the Carolinas. The map is titled "ETIS" at the top center. At the bottom of the map area, there are several buttons: "Zoom In", "Evacuation Variables", "Roadway Volumes", "Administration", and "Active Layer: Evacuating Counties". The status bar at the very bottom shows "Map: -100.45, 27.71 -- Image: 146, 385 -- ScaleFactor: 0.04277322162162163" and "Internet".

# Reports – Traffic Count by State

Based on user input, the table below depicts Traffic Count Information by state.

Traffic Count by State					
Report Date: 3/11/03 - 7:52:55 AM EST					
ALABAMA					
Station Description	Current Traffic Volume	Current Traffic Speed	Normal Daily Volume for Hour	Total Evacuation Traffic Count	Count Date
I-10 eastbound at Florida	0	0	2300	0	
I-10 westbound at Mississippi	0	0	2300	0	
I-20 eastbound at Georgia	0	0	2300	0	
I-59 northbound at Georgia	0	0	2300	0	
I-65 northbound to Tennessee	0	0	2300	0	
I-85 northeast at Georgia	0	0	2300	0	
SR 87 southbound at Florida	0	0	1150	0	
US 231 southbound at Florida	0	0	2300	0	
US 29 / SR 113 southbound at Florida	0	0	1150	0	
US 331 southbound at Florida	0	0	1150	0	
US 84 eastbound at Georgia	0	0	2300	0	
FLORIDA					
Station Description	Current Traffic Volume	Current Traffic Speed	Normal Daily Volume for Hour	Total Evacuation Traffic Count	Count Date
I-10 westbound at Alabama	0	0	2300	0	
I-75 northbound at Georgia	0	0	3450	0	
I-95 northbound at Georgia	0	0	2300	0	
US 1 northbound at Georgia	0	0	2300	0	
US 19 northbound at Georgia	0	0	2300	0	
US 231 northbound at Georgia	0	0	2300	0	
US 29 northbound at Georgia	0	0	2300	0	
US 319 northbound at Georgia	0	0	2300	0	
US 331 northbound at Georgia	0	0	1150	0	
GEORGIA					
Station Description	Current Traffic Volume	Current Traffic Speed	Normal Daily Volume for Hour	Total Evacuation Traffic Count	Count Date
I-95 southbound at Florida	0	0	3450	0	
SR 119 northbound at South Carolina	0	0	1150	0	

# Reports – Traffic Volumes by Corridor

**Traffic Volumes by Corridor**  
Report Date: 3/11/03 - 7:54:05 AM EST

STATE	CORRIDOR	FROM	TO
Florida	I 10	195	175

[Review Traffic Volumes](#)

**Search Parameters**

State: **Florida**  
 Corridor: **I 10**  
 From: **195**  
 To: **175**

**Route Segments**

Route ID: **13-427**  
 Route Name: **I 10 West of Jacksonville**  
 Estimated Volume: **4,833**

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Route ID: **186-603**  
 Route Name: **I 10 West of Jacksonville**  
 Estimated Volume: **12,208**

---

Route ID: **603-210**  
 Route Name: **I 10 West of Jacksonville**  
 Estimated Volume: **16,519**

---

Route ID: **210-49**  
 Route Name: **I 10 West of Jacksonville**  
 Estimated Volume: **3,844**

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Route ID: **427-186**  
 Route Name: **I 10 West of Jacksonville**  
 Estimated Volume: **6,679**

## Reports – Destination Percentages by City

Destination Percentages by City -

File Edit View Favorites Tools Help

Address [http://12.27.156.2/Phase4/ETISReports/Evacuating\\_Vehicles\\_By\\_City.asp](http://12.27.156.2/Phase4/ETISReports/Evacuating_Vehicles_By_City.asp)

Links [Customize Links](#) [Free Hotmail](#) [Windows](#) [Windows Media](#)

Based on current county evacuations, the table below depicts estimated evacuating vehicles to each city.

Destination Percentages by City		
Report Date: 3/11/03 - 7:54:53 AM EST		
Destination	Vehicles	Percent of Evacuation
Aiken / Augusta GA	1,440	0.72%
Atlanta Area	19,793	9.85%
Charlotte / Western NC	3,398	1.69%
Columbus / SW Georgia	3,034	1.51%
Greensboro / Winston-Salem	838	0.42%
Greenville /Spartanburg Area	144	0.07%
Hattiesburg	144	0.07%
I-16 Corridor Towns	9,658	4.80%
I-77 North of I-40 to Virginia	176	0.09%
I-95 - to Virginia	496	0.25%
Kentucky	2,299	1.14%
Macon Area	9,286	4.62%
Montgomery	13,799	6.86%
NC I-95 South Towns / Fayetteville	144	0.07%
NE Florida / Jacksonville	18,592	9.25%
Ocala / Gainesville/ N Central FL	18,358	9.13%
Orlando / Space Coast Area	15,823	7.87%
Raleigh Area	1,769	0.88%
Sumter / Columbia	5,265	2.62%
SW Florida / FT Myers	694	0.35%
Tallahassee Area	28,452	14.15%
Tampa Bay Area	8,443	4.20%
Valdosta Area	12,666	6.30%
Waycross Area	8,469	4.21%
Western Panhandle /Pensacola	17,842	8.88%
<b>TOTAL EVACUATING VEHICLES:</b>	<b>201,022</b>	<b>100%</b>

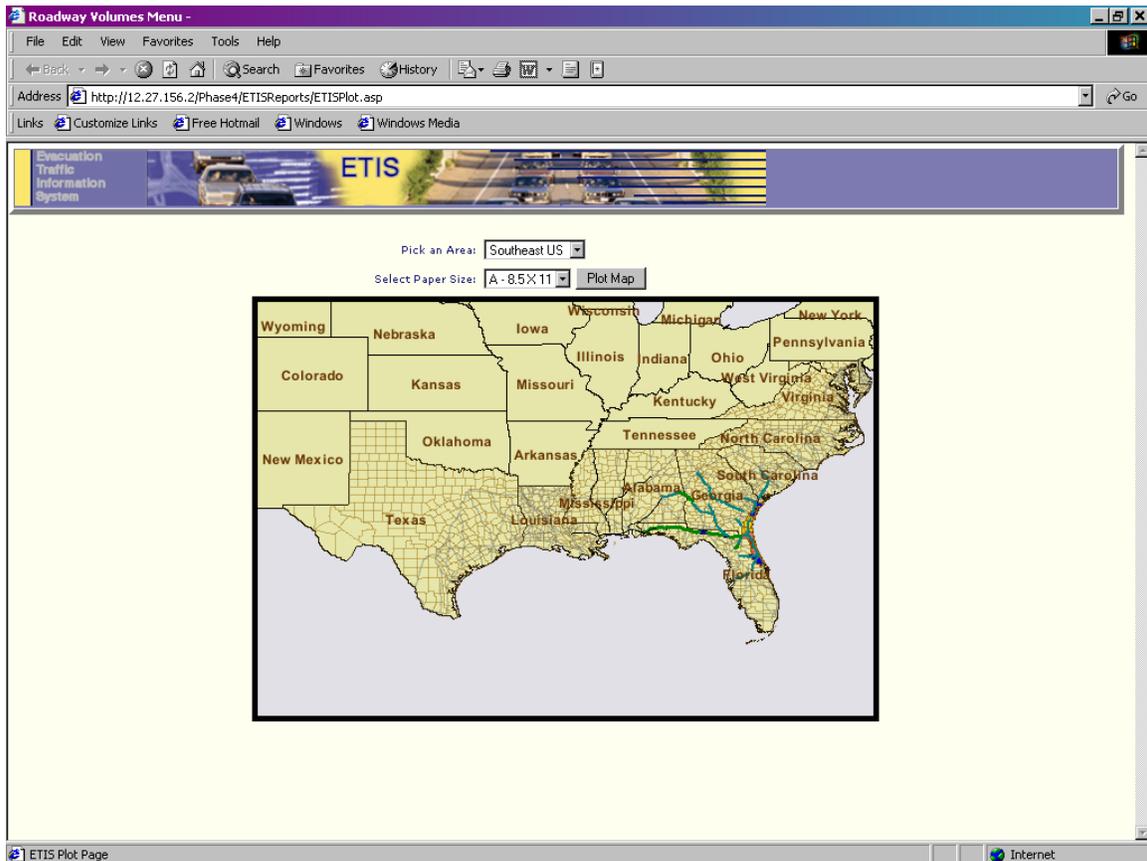
Done Internet

## Reports – Estimated State to State Traffic

The State to State data table shows directional traffic volumes for all roadway segments that cross state lines. This table may be viewed at any time and is updated as counties/parishes are committed.

Estimated State to State Traffic		Estimated State to State Traffic	
Report Date: 3/11/03 - 7:43:05 AM EST		Report Date: 3/11/03 - 7:43:05 AM EST	
<b>Alabama to Georgia</b>		<b>Alabama to Florida</b>	
I 20 East of Birmingham	0	US 331 South of Alabama State Line	0
I 85 Northeast of Montgomery	0	SR 87 South of Brewton	0
US 84 Southeast of Dothan	0	US 231 South of Dothan	0
US 280 between US 431 and I 185	0	SR 85 North of I 10	0
I 59 Northeast of Birmingham	0	I 10 East of Mobile	-2
	<b>0</b>	SR 113 South of I 65	0
			<b>-2</b>
<b>Alabama to Mississippi</b>		<b>Florida to Alabama</b>	
I 10 West of Mobile	0	I 10 West of Pensacola	36
US 45 between Quitman and I 65	0	US 29 North of I 10	0
I 59/20 West of Birmingham	0	US 231 South of Alabama State Line	0
US 98 Northwest of Mobile	36	SR 85 North of I 10	0
	<b>36</b>	US 331 South of Alabama State Line	0
		SR 87 North of I 10	0
			<b>36</b>
<b>Florida to Georgia</b>		<b>Georgia to Alabama</b>	
I 95 North of Nassau County	6,122	I 85 Southwest of Atlanta	108
US 1 Northwest of Jacksonville	2,274	US 84 West of Bainbridge	0
I 75 South of Valdosta	3,607	US 280 between US 431 and I 185	8,211
US 319 Northeast of Tallahassee	0	I 20 West of Atlanta	0
US 19 South of Thomasville	0		
	<b>12,003</b>		<b>8,319</b>
<b>Georgia to Florida</b>		<b>Georgia to South Carolina</b>	
US 319 South of Thomasville	0	SR 125 East of Augusta / Aiken	0
I 95 South of Camden County	810	SR 119 between US 321 and SR 21	0
US 1 Southeast of Waycross	0	I 95 North of Chatam County	3,259
I 75 South of Valdosta	0	US 301 at SC State Line	0
US 19 South of Thomasville	0	SR 28 Southeast of Augusta / Aiken	0
		I 20 West of Columbia	0
		US 28 between US 278 and Aiken	0

## Reports – Plot Current Forecasted Congestion Levels



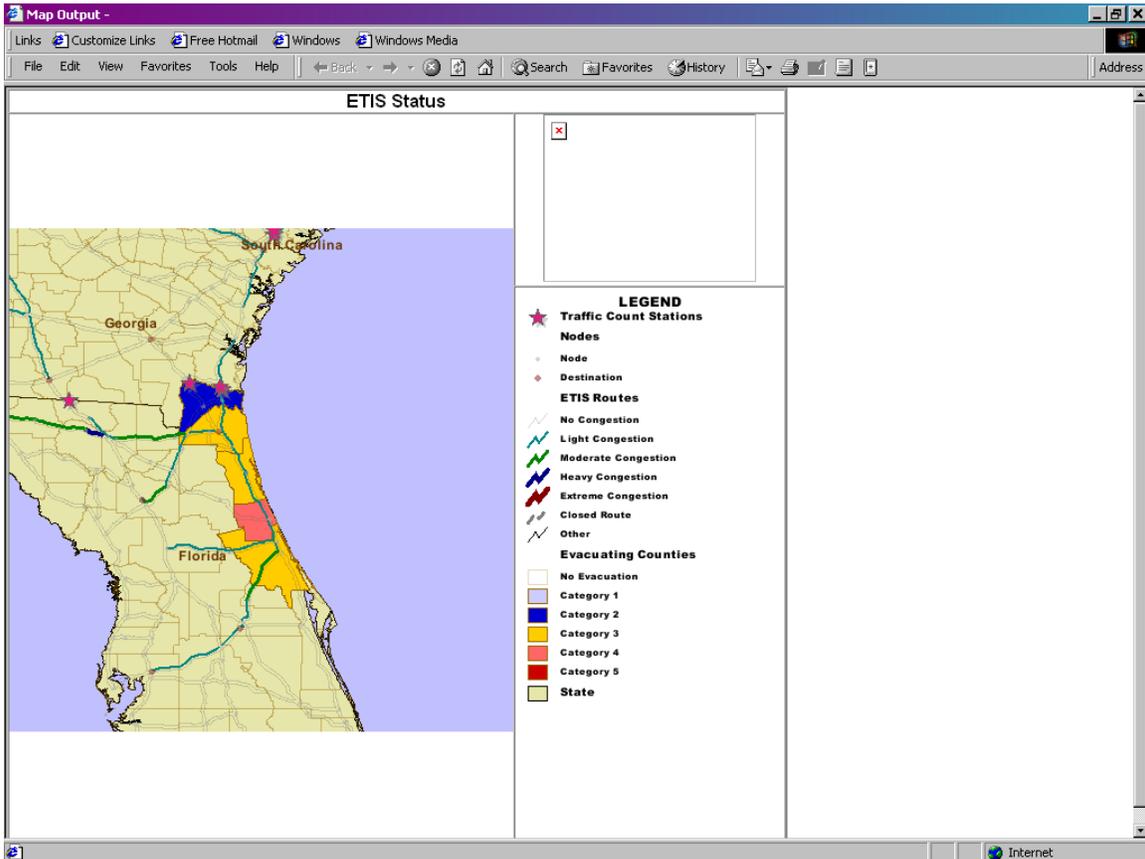
## Plot

The Plot tab allows the user to print a map of the current data shown in the *Map Frame*. A legend and overview will also appear on the map. Using the *Toolbar*, users can change the extent of the map to the area of interest. The user may change the title of the map, located in the panel on the left, then select **Create Print Page** button to create a preview of the map.

The screenshot shows the ArcIMS HTML 3.0 Viewer interface. The browser window title is "ArcIMS HTML 3.0 Viewer -". The address bar shows "http://12.27.156.2/Phase4/MCP\_MAP/viewer.asp". The main content area displays the "ETIS Print Map" page. The page title is "ETIS Print Map". The "Title to display on Map:" field contains "ETIS Status". The "Create Print Page" button is visible. The map shows a map of Florida with various counties labeled. The map is divided into several colored regions: a blue region in the north, a yellow region in the center, and a red region in the south. The "Evacuating Counties" layer is active. The status bar at the bottom shows "Map: -82.84 , 30.51 -- Image: 130 , 180 -- ScaleFactor: 0.006568744749034596".

## Plot – Create Print Page

A preview of the map will then appear in a separate window. Verify plot settings before printing. A new Browser window with the Map Image, Overview Map Image, and Legend will be displayed. You can then use the File/Print menu item to send the display to your printer.



## Entering Evacuation Variables

Each county must commit data for the model to forecast traffic volumes. The data is committed using the *Evacuation Variables* menu button, located below the *Map Frame*.

Users are not allowed to change data for other states.

The screenshot shows the ArcIMS HTML 3.0 Viewer interface for the ETIS (Evacuation Traffic Information System). The browser window displays the URL `http://12.27.156.2/Phase4/MCP_MAP/viewer.asp`. The interface includes a navigation toolbar with buttons for STATUS, SEARCH, LEGEND, HELP, FORMS, REPORTS, and PLOT. A map of the United States is shown, with a red box highlighting the state of Florida. The sidebar contains several data tables:

CURRENT STATUS Evacuations						
STATE	NAME	CAT	PRATE	VHCLS	TYPE	
FL	Duval	4	90%	69,480	M	
FL	Flagler	4	90%	13,680	M	
FL	Nassau	3	90%	10,800	M	
FL	St Johns	5	90%	46,080	M	
GA	Camden	3	90%	4,140	M	
GA	Chatham	2	90%	14,400	M	
GA	Glynn	3	90%	12,600	M	
GA	McIntosh	2	90%	900	M	
TOTAL:		8		172,080		

Lane Reversals		
STATE	DESCRIPTION	INPUT DATE

Route Closures				
STATE	CLOSED	FROM	TO	INPUT DATE
FL	I 95	SR 100	I 10	3/10/03 3:25:29 PM

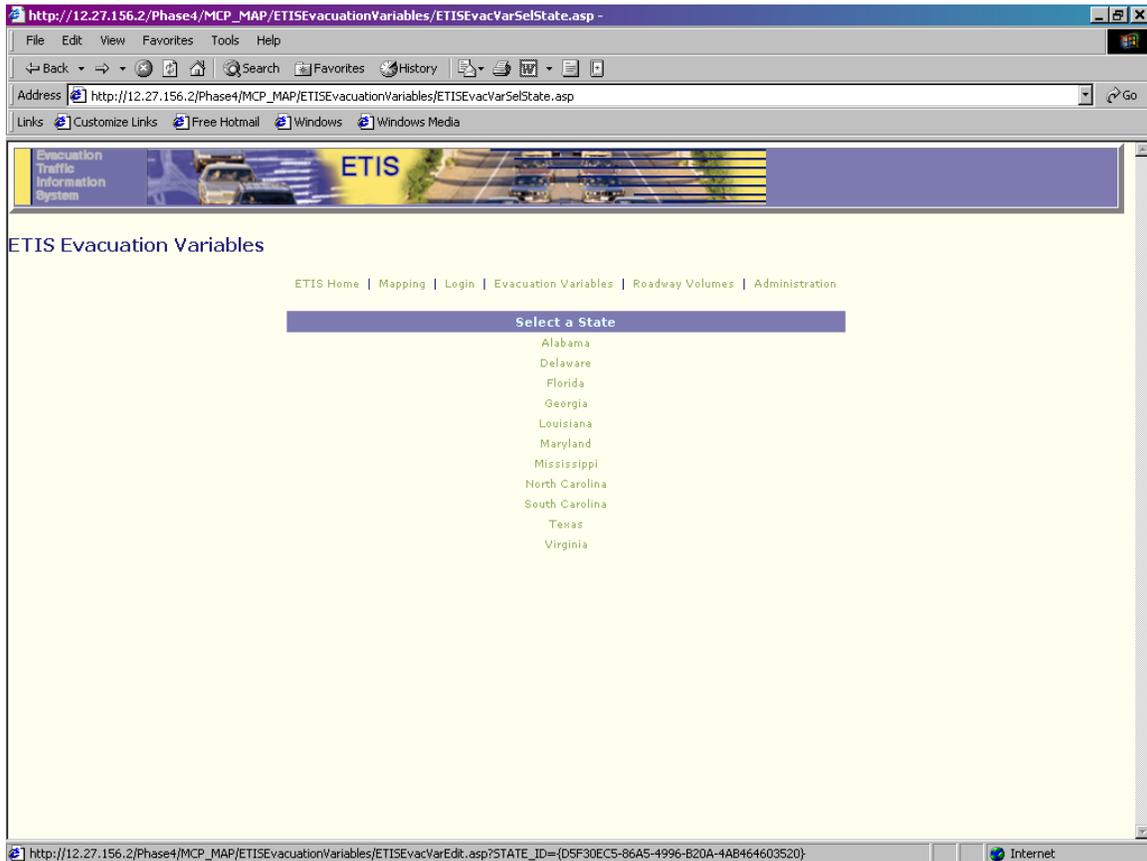
At the bottom of the interface, a toolbar contains buttons for 'Evacuation Variables', 'Roadway Volumes', and 'Administration'. The 'Active Layer' is set to 'Evacuating Counties'. A red arrow points from the text 'Evacuation Variables' below to the 'Evacuation Variables' button in the toolbar.

*Evacuation Variables*

Once the *Evacuation Variables* button is selected, an input table listing counties available for input appears. Again, only those counties of the state that is logged in will be available.

## Evacuation Variables

If you have a login with administrative access this screen will appear, and allow a state to be selected. With administrative access, this screen will appear when selecting *Evacuation Variables* or *Roadway Volumes*.



*Note if you are logged-in as an individual State this screen will not appear.*

## Evacuation Variables

The first input variable is the *category of storm*. Select the category of storm for which an area is evacuating using the pull-down menu.

The screenshot shows the ETIS Evacuation Variables web application. The page title is "ETIS Evacuation Variables" and it includes navigation links for Home, Mapping, Login, Evacuation Variables, Roadway Volumes, and Administration. There are buttons for "Update Information" and "Back to State Selection". The main content is a table titled "Counties Available for Evacuation in: Florida". The table has columns for NAME, STORM CATEGORY, EVACUATION STATUS, PARTICIPATION RATE %, TOURIST OCCUPANCY, EVACUATION DATE, and EVACUATION START TIME. The "STORM CATEGORY" dropdown menu is open, showing options 0, 1, 2, 3, 4, and 5. A red arrow points to the menu, and a red text annotation on the right says "Select from Category 1 through 5 based on type of evacuation".

NAME	STORM CATEGORY	EVACUATION STATUS	PARTICIPATION RATE %	TOURIST OCCUPANCY	EVACUATION DATE	EVACUATION START TIME
Calhoun	0	NONE	0	LOW		0 : 0 : PM
De Soto	0	NONE	0	LOW		0 : 0 : PM
Gadsden	0	NONE	0	LOW		0 : 0 : AM
Glades	0	NONE	0	LOW		0 : 0 : PM
Hamilton	0	NONE	0	LOW		0 : 0 : PM
Hardee	0	NONE	0	LOW		0 : 0 : PM
Hendry	0	NONE	0	LOW		0 : 0 : PM
Highlands	0	NONE	0	LOW		0 : 0 : PM
Holmes	0	NONE	0	LOW		0 : 0 : PM
Jackson	0	NONE	0	LOW		0 : 0 : PM
Lafayette	0	NONE	0	LOW		0 : 0 : PM
Leon	0	NONE	0	LOW		0 : 0 : PM
Liberty	0	NONE	0	LOW		0 : 0 : PM
Madison	0	NONE	0	LOW		0 : 0 : PM
Okeechobee	0	NONE	0	LOW		0 : 0 : PM
Suwannee	0	NONE	0	LOW		0 : 0 : PM

Select from Category 1 through 5 based on type of evacuation

Once a Category of Storm is selected, *Evacuation Type* (the second variable) defaults to mandatory. This may be changed by using the pull-down menu.

The screenshot shows the same ETIS Evacuation Variables web application. In this view, the "STORM CATEGORY" for Glades is set to 5. The "EVACUATION STATUS" dropdown menu is open, showing options: Mandatory, Recommended, Voluntary, and Halted. A blue arrow points to the menu, and a blue text annotation on the right says "Evacuation type".

NAME	STORM CATEGORY	EVACUATION STATUS	PARTICIPATION RATE %	TOURIST OCCUPANCY	EVACUATION DATE	EVACUATION START TIME
Calhoun	0	NONE	0	LOW		0 : 0 : PM
De Soto	0	NONE	0	LOW		0 : 0 : PM
Gadsden	5	Mandatory	90	LOW	3/11/2003	8 : 45 : AM
Glades	0	Mandatory	0	LOW		0 : 0 : PM
Hamilton	0	NONE	0	LOW		0 : 0 : PM
Hardee	0	NONE	0	LOW		0 : 0 : PM
Hendry	0	NONE	0	LOW		0 : 0 : PM
Highlands	0	NONE	0	LOW		0 : 0 : PM
Holmes	0	NONE	0	LOW		0 : 0 : PM
Jackson	0	NONE	0	LOW		0 : 0 : PM
Lafayette	0	NONE	0	LOW		0 : 0 : PM
Leon	0	NONE	0	LOW		0 : 0 : PM
Liberty	0	NONE	0	LOW		0 : 0 : PM
Madison	0	NONE	0	LOW		0 : 0 : PM
Okeechobee	0	NONE	0	LOW		0 : 0 : PM
Suwannee	0	NONE	0	LOW		0 : 0 : PM

Evacuation type

## Evacuation Variables - Participation Rate

The third input is the *participation rate*. The participation rate refers to the percent of the population that is believed to be evacuating. Use the pull-down menu to select a participation rate. Use 50% as default if unsure of the participation rate.

The screenshot shows the ETIS Evacuation Variables web application. At the top, there is a navigation bar with links for ETIS Home, Mapping, Login, Evacuation Variables, Roadway Volumes, and Administration. Below this are buttons for 'Update Information' and 'Back to State Selection'. The main content area is titled 'Counties Available for Evacuation in: Florida' and contains a table with the following columns: NAME, STORM CATEGORY, EVACUATION STATUS, PARTICIPATION RATE %, TOURIST OCCUPANCY, EVACUATION DATE, and EVACUATION START TIME. A pull-down menu is open for the 'PARTICIPATION RATE %' column, showing options from 0 to 100. A red arrow points to the 50% option, and a red note on the right says 'Select participation rate from pull-down menu'.

NAME	STORM CATEGORY	EVACUATION STATUS	PARTICIPATION RATE %	TOURIST OCCUPANCY	EVACUATION DATE	EVACUATION START TIME
Calhoun	0	NONE	0	Low		0 : 0 PM
De Soto	0	NONE	0	Low		0 : 0 PM
Gadsden	5	Mandatory	90	Low	3/11/2003	9 : 4 AM
Glades	0	NONE	0	Low		0 : 0 PM
Hamilton	0	NONE	0	Low		0 : 0 PM
Hardee	0	NONE	0	Low		0 : 0 PM
Hendry	0	NONE	0	Low		0 : 0 PM
Highlands	0	NONE	0	Low		0 : 0 PM
Holmes	0	NONE	0	Low		0 : 0 PM
Jackson	0	NONE	0	Low		0 : 0 PM
Lafayette	0	NONE	0	Low		0 : 0 PM
Leon	0	NONE	0	Low		0 : 0 PM
Liberty	0	NONE	0	Low		0 : 0 PM
Madison	0	NONE	0	Low		0 : 0 PM
Okaloosa	0	NONE	0	Low		0 : 0 PM
Suwannee	0	NONE	0	Low		0 : 0 PM

Select participation rate from pull-down menu

## Evacuation Variables - Tourist Occupancy

The fourth input is *Tourist Occupancy*. Low, medium or high must be selected from the pull-down menu based on the current tourist occupancy of an area.

ETIS Evacuation Variables

ETIS Home | Mapping | Login | Evacuation Variables | Roadway Volumes | Administration

Update Information | Back to State Selection

Counties Available for Evacuation in: Florida

NAME	STORM CATEGORY	EVACUATION STATUS	PARTICIPATION RATE %	TOURIST OCCUPANCY	EVACUATION DATE	EVACUATION START TIME
Calhoun	0	NONE	0	LOW		0 : 0 PM
De Soto	0	NONE	0	LOW		0 : 0 PM
Gadsden	5	Mandatory	90	LOW	3/11/2003	9 : 4 AM
Glades	0	NONE	0	LOW MEO HIGH LOW		0 : 0 PM
Hamilton	0	NONE	0			0 : 0 PM
Hardee	0	NONE	0	LOW		0 : 0 PM
Hendry	0	NONE	0	LOW		0 : 0 PM
Highlands	0	NONE	0	LOW		0 : 0 PM
Holmes	0	NONE	0	LOW		0 : 0 PM
Jackson	0	NONE	0	LOW		0 : 0 PM
Lafayette	0	NONE	0	LOW		0 : 0 PM
Leon	0	NONE	0	LOW		0 : 0 PM
Liberty	0	NONE	0	LOW		0 : 0 PM
Madison	0	NONE	0	LOW		0 : 0 PM
Okeechobee	0	NONE	0	LOW		0 : 0 PM
Suwannee	0	NONE	0	LOW		0 : 0 PM

ETIS County Evacuation Page | Internet

*Select tourist occupancy level*

## Evacuation Variables - Evacuation Date and Time

Another two variables that may be entered, but that do not impact traffic computations are *Evacuation Date* and *Evacuation Start Time*. Once data is selected for category of storm, the *Evacuation Date* defaults to the current date. To change the date, just type in the desired date.

*Evacuation Start Time* also defaults to the current time once a category of storm is selected. To change the *Evacuation Start Time*, use the pull-down menus to select the desired time.

Counties Available for Evacuation in: Florida						
NAME	STORM CATEGORY	EVACUATION STATUS	PARTICIPATION RATE %	TOURIST OCCUPANCY	EVACUATION DATE	EVACUATION START TIME
Calhoun	0	NONE	0	LOW		0 : 0 PM
De Soto	0	NONE	0	LOW		0 : 0 PM
Gadsden	5	Mandatory	90	MED	3/11/2003	9 : 4 AM
Glades	0	NONE	0	LOW		0 : 0 PM
Hamilton	0	NONE	0	LOW		0 : 0 PM
Hardee	0	NONE	0	LOW		0 : 0 PM
Hendry	0	NONE	0	LOW		0 : 0 PM
Highlands	0	NONE	0	LOW		0 : 0 PM
Holmes	0	NONE	0	LOW		0 : 0 PM
Jackson	0	NONE	0	LOW		0 : 0 PM
Lafayette	0	NONE	0	LOW		0 : 0 PM
Leon	0	NONE	0	LOW		0 : 0 PM
Liberty	0	NONE	0	LOW		0 : 0 PM
Madison	0	NONE	0	LOW		0 : 0 PM
Okeechobee	0	NONE	0	LOW		0 : 0 PM
Suwannee	0	NONE	0	LOW		0 : 0 PM

*Evacuation Date and Evacuation Start Time*

## Evacuation Variables – Update County Information

Upon entering the county evacuation variables, select the button labeled ***Update County Information***. The model will recalculate roadway congestion based on the new information. Multiple numbers of counties can be updated simultaneously, and these variables may be changed at any time.

NAME	STORM CATEGORY	EVACUATION STATUS	PARTICIPATION RATE %	TOURIST OCCUPANCY	EVACUATION DATE	EVACUATION START TIME
Calhoun	0	NONE	0	LOW		0 : 0 PM
De Soto	0	NONE	0	LOW		0 : 0 PM
Gadsden	5	Mandatory	90	MED	3/11/2003	9 : 4 AM
Glades	0	NONE	0	LOW		0 : 0 PM
Hamilton	0	NONE	0	LOW		0 : 0 PM
Hardee	0	NONE	0	LOW		0 : 0 PM
Hendry	0	NONE	0	LOW		0 : 0 PM
Highlands	0	NONE	0	LOW		0 : 0 PM
Holmes	0	NONE	0	LOW		0 : 0 PM
Jackson	0	NONE	0	LOW		0 : 0 PM
Lafayette	0	NONE	0	LOW		0 : 0 PM
Leon	0	NONE	0	LOW		0 : 0 PM
Liberty	0	NONE	0	LOW		0 : 0 PM
Madison	0	NONE	0	LOW		0 : 0 PM
Okeechobee	0	NONE	0	LOW		0 : 0 PM
Suwannee	0	NONE	0	LOW		0 : 0 PM

*Commit County data that has been entered*

If a county needs to be uncommitted, select zero from the Storm Category pull-down menu. The model will then recalculate traffic volumes based on the new information.

## Evacuation Variables – Update Information

Once the model has updated the county information, a message will appear below the **Update Information** button stating that the updates are complete.

The screenshot shows a web browser window with the URL [http://12.27.156.2/Phase4/MCP\\_MAP/ETISEvacuationVariables/ETISEvacVarEdit.asp?STATE\\_ID={FA0493A-](http://12.27.156.2/Phase4/MCP_MAP/ETISEvacuationVariables/ETISEvacVarEdit.asp?STATE_ID={FA0493A-). The page title is "ETIS Evacuation Variables". A red arrow points from the "Update Information" button to the "Update Complete" message. Below the message is a table titled "Counties Available for Evacuation in: Florida".

NAME	STORM CATEGORY	EVACUATION STATUS	PARTICIPATION RATE %	TOURIST OCCUPANCY	EVACUATION DATE	EVACUATION START TIME
Calhoun	0	NONE	0	LOW		0 : 0 PM
De Soto	0	NONE	0	LOW		0 : 0 PM
Gadsden	5	Mandatory	90	MED	3/11/03	9 : 4 AM
Glades	0	NONE	0	LOW		0 : 0 PM
Hamilton	0	NONE	0	LOW		0 : 0 PM
Hardee	0	NONE	0	LOW		0 : 0 PM
Hendry	0	NONE	0	LOW		0 : 0 PM
Highlands	0	NONE	0	LOW		0 : 0 PM
Holmes	0	NONE	0	LOW		0 : 0 PM
Jackson	0	NONE	0	LOW		0 : 0 PM
Lafayette	0	NONE	0	LOW		0 : 0 PM
Leon	0	NONE	0	LOW		0 : 0 PM
Liberty	0	NONE	0	LOW		0 : 0 PM
Madison	0	NONE	0	LOW		0 : 0 PM
Oklawaha	0	NONE	0	LOW		0 : 0 PM

Once the updates are complete, select **Mapping** to return to the main map screen.

## Additional County and Destination Information

Additional information on a particular county can be viewed and updated by selecting the county name. This links to a table, that lists the destination percentages for the selected county along with any information that has been entered for the county/parish.

ETIS Evacuation Variables

ETIS Home | Mapping | Login | Evacuation Variables | Roadway Volumes | Administration

Update Information Back to State Selection

Counties Available for Evacuation in: Florida						
NAME	STORM CATEGORY	EVACUATION STATUS	PARTICIPATION RATE %	TOURIST OCCUPANCY	EVACUATION DATE	EVACUATION START TIME
Calhoun	0	NONE	0	LOW		0 : 0 PM
De Soto	0	NONE	0	LOW		0 : 0 PM
Glades	0	NONE	0	LOW		0 : 0 PM
Hamilton	0	NONE	0	LOW		0 : 0 PM
Hardee	0	NONE	0	LOW		0 : 0 PM
Hendry	0	NONE	0	LOW		0 : 0 PM
Highlands	0	NONE	0	LOW		0 : 0 PM
Holmes	0	NONE	0	LOW		0 : 0 PM
Jackson	0	NONE	0	LOW		0 : 0 PM
Lafayette	0	NONE	0	LOW		0 : 0 PM
Leon	0	NONE	0	LOW		0 : 0 PM
Liberty	0	NONE	0	LOW		0 : 0 PM
Madison	0	NONE	0	LOW		0 : 0 PM
Okeechobee	0	NONE	0	LOW		0 : 0 PM

ETIS County Evacuation Page Internet

More County Information

## Additional County and Destination Information

A reference table is also listed showing the difference between low, medium, and high occupancy for the county selected. Base on the study, information on the destination percentages the county selected is located on the right side of the screen. *New Destination Information* may be entered and existing destinations can be updated.

Close Form

State: **FLORIDA**  
 County: **HILLSBOROUGH**

Number of Shelters:  
 Shelter Capacity:

**Current County Statistics**

Estimated Evacuating Vehicles: **0**  
 Category of Storm Evacuating for: **0**  
 Estimated Participation Rate: **0**  
 Seasonal Tourist Occupancy: **LOW**

**Evacuating Vehicles Matrix**

	LOW	MEDIUM	HIGH
CAT 1	13,709	16,000	18,164
CAT 2	31,938	34,000	37,486
CAT 3	40,777	43,000	46,868
CAT 4	70,678	73,500	76,768
CAT 5	70,678	73,500	76,768

**Add New Destination Information**

**Destinations for this county**

DESTINATION	Percent
NE Florida / Jacksonville	5
Ocala / Gainesville/ N Central FL	10
Kentucky	2
Valdosta Area	5
Columbus / SW Georgia	3
Western Panhandle /Pensacola	5
Tallahassee Area	5
Orlando / Space Coast Area	30
Ft Pierce / West Palm Area	10
Macon Area	5
Atlanta Area	10
I-16 Corridor Towns	5
Montgomery	5
<b>Total Percentage:</b>	<b>100%</b>

*County Information*

*Destination Percentages*

## Additional County and Destination Information

Additional links to county and destination information are available on this screen.

Evacuation Traffic Information System

ETIS

Close Form

State: **FLORIDA**  
County: **HILLSBOROUGH**

Number of Shelters:  
Shelter Capacity:

**Current County Statistics**

Estimated Evacuating Vehicles: **0**  
Category of Storm Evacuating for: **0**  
Estimated Participation Rate: **0**  
Seasonal Tourist Occupancy: **LOW**

**Evacuating Vehicles Matrix**

	LOW	MEDIUM	HIGH
CAT 1	13,709	16,000	18,164
CAT 2	31,938	34,000	37,486
CAT 3	40,777	43,000	46,868
CAT 4	70,678	73,500	76,768
CAT 5	70,678	73,500	76,768

**Add New Destination Information**

**Destinations for this county**

DESTINATION	Percent
NE Florida / Jacksonville	5
Ocala / Gainesville/ N Central FL	10
Kentucky	2
Valdosta Area	5
Columbus / SW Georgia	3
Western Panhandle /Pensacola	5
Tallahassee Area	5
Orlando / Space Coast Area	30
Ft Pierce / West Palm Area	10
Macon Area	5
Atlanta Area	10
I-16 Corridor Towns	5
Montgomery	5
Total Percentage:	100%

*More County Information*

*More Destination Information*

## Additional County Information

The data below was obtained from the U.S. Census Bureau in 2000. Any user with *administrative* privileges can update this information.

Evacuation Traffic Information System

ETIS

Close Form

**Update County Information**

Start Nodes:

Region:

Geographic Location:  Population:

Number of Shelters:  Shelter Capacity:

**Evacuating Vehicles**

Cat 1 Low:	<input type="text" value="13709"/>	Cat 1 Med:	<input type="text" value="16000"/>	Cat 1 High:	<input type="text" value="18164"/>
Cat 2 Low:	<input type="text" value="31938"/>	Cat 2 Med:	<input type="text" value="34000"/>	Cat 2 High:	<input type="text" value="37486"/>
Cat 3 Low:	<input type="text" value="40777"/>	Cat 3 Med:	<input type="text" value="43000"/>	Cat 3 High:	<input type="text" value="46868"/>
Cat 4 Low:	<input type="text" value="70678"/>	Cat 4 Med:	<input type="text" value="73500"/>	Cat 4 High:	<input type="text" value="76768"/>
Cat 5 Low:	<input type="text" value="70678"/>	Cat 5 Med:	<input type="text" value="73500"/>	Cat 5 High:	<input type="text" value="76768"/>

Done Internet

## Additional Destination Information

By clicking a destination from the *Additional County and Destination* page, the following screen will appear. This page will allow the user to change the allocated percentages for that destination, or delete the destination.

Evacuation Traffic Information System

ETIS

Close Form

**Enter Destination Information**

Destination: NE Florida / Jacksonville

Available / Allocated:  %

[Back To County Information](#) [Update](#) [Delete](#)

DESTINATION	Percent
NE Florida / Jacksonville	5
Ocala / Gainesville / N Central FL	10
Kentucky	2
Valdosta Area	5
Columbus / SW Georgia	3
Western Panhandle / Pensacola	5
Tallahassee Area	5
Orlando / Space Coast Area	30
Ft Pierce / West Palm Area	10
Macon Area	5
Atlanta Area	10
I-16 Corridor Towns	5
Montgomery	5
Total Allocated:	100
Total Available:	0

Done Internet

## Additional Destination Information

In addition to modifying the destinations, users can add new destinations by clicking the *Add New Destination Information* button.

Close Form

State: **FLORIDA**  
 County: **HILLSBOROUGH**

Number of Shelters:  
 Shelter Capacity:

**Current County Statistics**  
 Estimated Evacuating Vehicles: **0**  
 Category of Storm Evacuating for: **0**  
 Estimated Participation Rate: **0**  
 Seasonal Tourist Occupancy: **LOW**

**Evacuating Vehicles Matrix**

	LOW	MEDIUM	HIGH
CAT 1	13,709	16,000	18,164
CAT 2	31,938	34,000	37,486
CAT 3	48,777	43,000	46,868
CAT 4	70,678	73,500	76,768
CAT 5	70,678	73,500	76,768

**Add New Destination Information**

**Destinations for this county**

DESTINATION	Percent
NE Florida / Jacksonville	5
Ocala / Gainesville/ N Central FL	10
Kentucky	2
Valdosta Area	5
Columbus / SW Georgia	3
Western Panhandle /Pensacola	5
Tallahassee Area	5
Orlando / Space Coast Area	30
Ft Pierce / West Palm Area	10
Macon Area	5
Atlanta Area	10
I-16 Corridor Towns	5
Montgomery	5
<b>Total Percentage:</b>	<b>100%</b>

Done Internet

## Additional Destination Information

The screen below allows the user to add destinations to the selected county. The information is based on an Evacuation Study, and will be different for each county. After selecting a new destination and the percentage click the *Add* button and the list will be updated.

Close Form

**Enter Destination Information**

Destination: 158 Currituk to Virginia

Available / Allocated: 0 %

Back To County Information Add

*Add New Destination*

DESTINATION	Percent
NE Florida / Jacksonville	5
Ocala / Gainesville/ N Central FL	10
Kentucky	2
Valdosta Area	5
Columbus / SW Georgia	3
Western Panhandle /Pensacola	5
Tallahassee Area	5
Orlando / Space Coast Area	30
Ft Pierce / West Palm Area	10
Macon Area	5
Atlanta Area	10
I-16 Corridor Towns	5
Montgomery	5
<b>Total Allocated:</b>	<b>100</b>

## Roadway Volumes – Inputs and Outputs

Other variables that may be entered are *Roadway Volumes*. *Roadway Volumes* contain information about a particular roadway segments such as traffic counts, lane reversal, and road closures. Also, state to state traffic information may be viewed through this option.

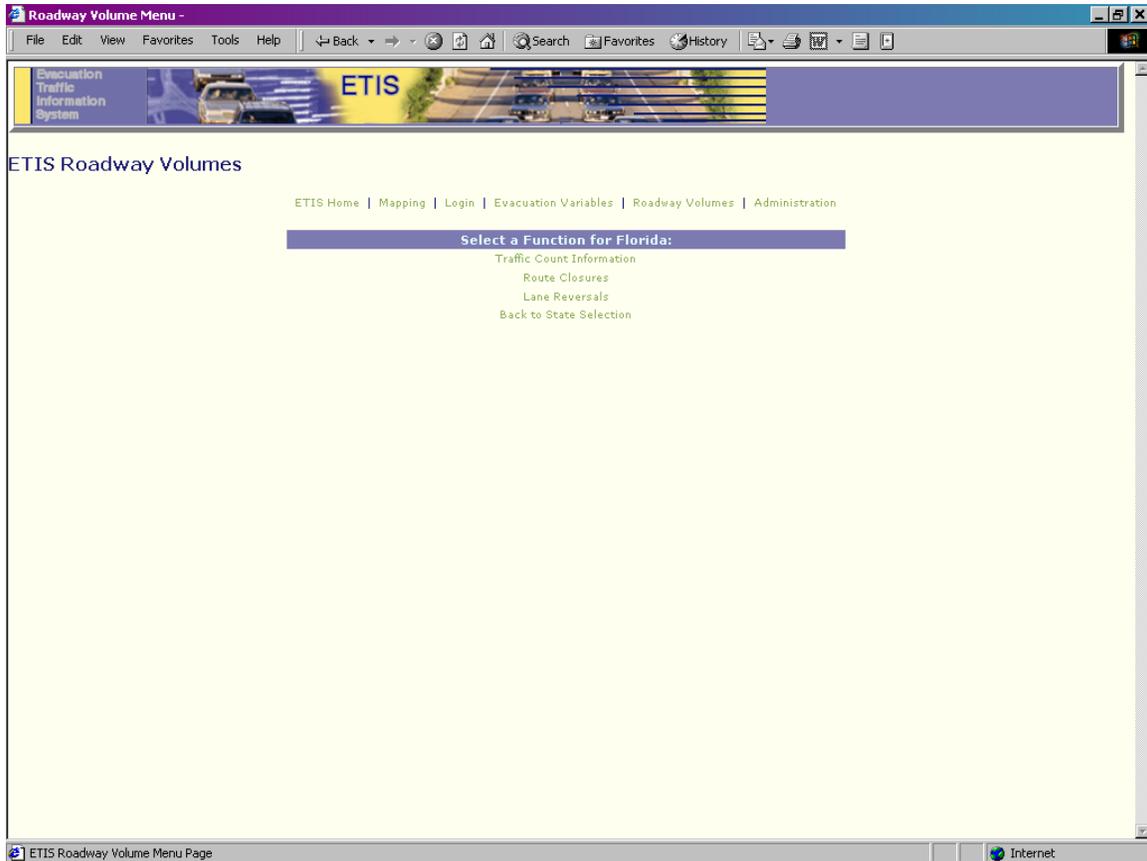
The screenshot shows the ArcIMS HTML 3.0 Viewer interface for the ETIS (Evacuation Traffic Information System). The browser address bar shows the URL: [http://12.27.156.2/Phase4/MCP\\_MAP/viewer.asp](http://12.27.156.2/Phase4/MCP_MAP/viewer.asp). The interface includes a navigation menu with options like STATUS, SEARCH, LEGEND, HELP, FORMS, REPORTS, and PLOT. A table titled "CURRENT STATUS Evacuations" is displayed on the left side of the map. The table lists evacuation routes with columns for STATE, NAME, CAT, PRATE, YHCLS, and TYPE. A red box highlights the Southeastern United States on the map. At the bottom of the interface, there are buttons for "Evacuation Variables", "Roadway Volumes", and "Administration". A red arrow points to the "Roadway Volumes" button.

STATE	NAME	CAT	PRATE	YHCLS	TYPE
FL	Duval	4	90%	69,480	M
FL	Flagler	4	90%	13,680	M
FL	Nassau	3	90%	10,800	M
FL	St Johns	5	90%	46,080	M
GA	Camden	3	90%	4,140	M
GA	Chatham	2	90%	14,400	M
GA	Glynn	3	90%	12,600	M
GA	Mcintosh	2	90%	900	M
TOTAL:		8		172,080	

Select Roadway Volumes

## Roadway Volumes Menu

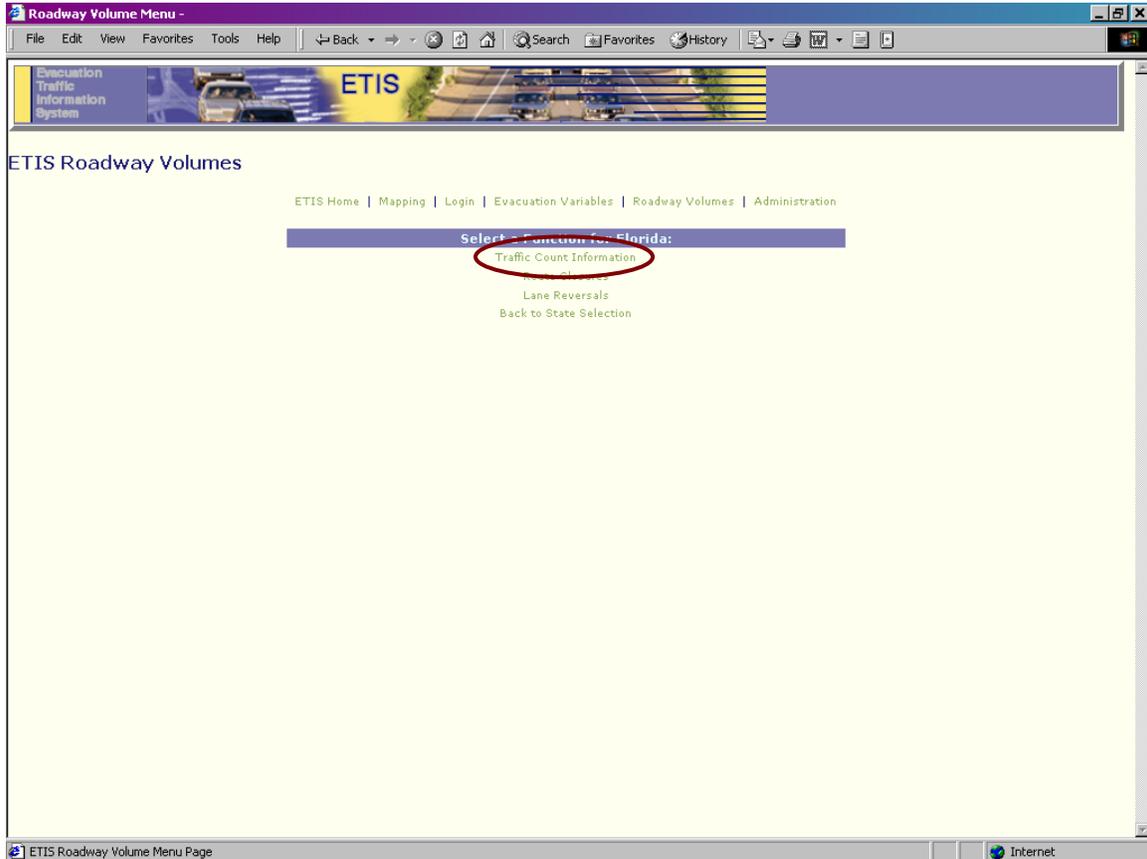
Once *Roadway Volumes* is selected, a menu appears with several options.



Note: the *Back to State Selection* will only appear with administrator access.

## Roadway Volumes - Traffic Count Information

The first option under *Roadway Volumes* is ***Traffic Count Information***. Traffic count information may be added at anytime. Traffic counts may only be entered for those stations listed. At this time, the model only lists those stations at the state borders.



## Roadway Volumes - Traffic Count Information

Once *Traffic Count Information* is selected a table appears with those traffic count stations available for input.

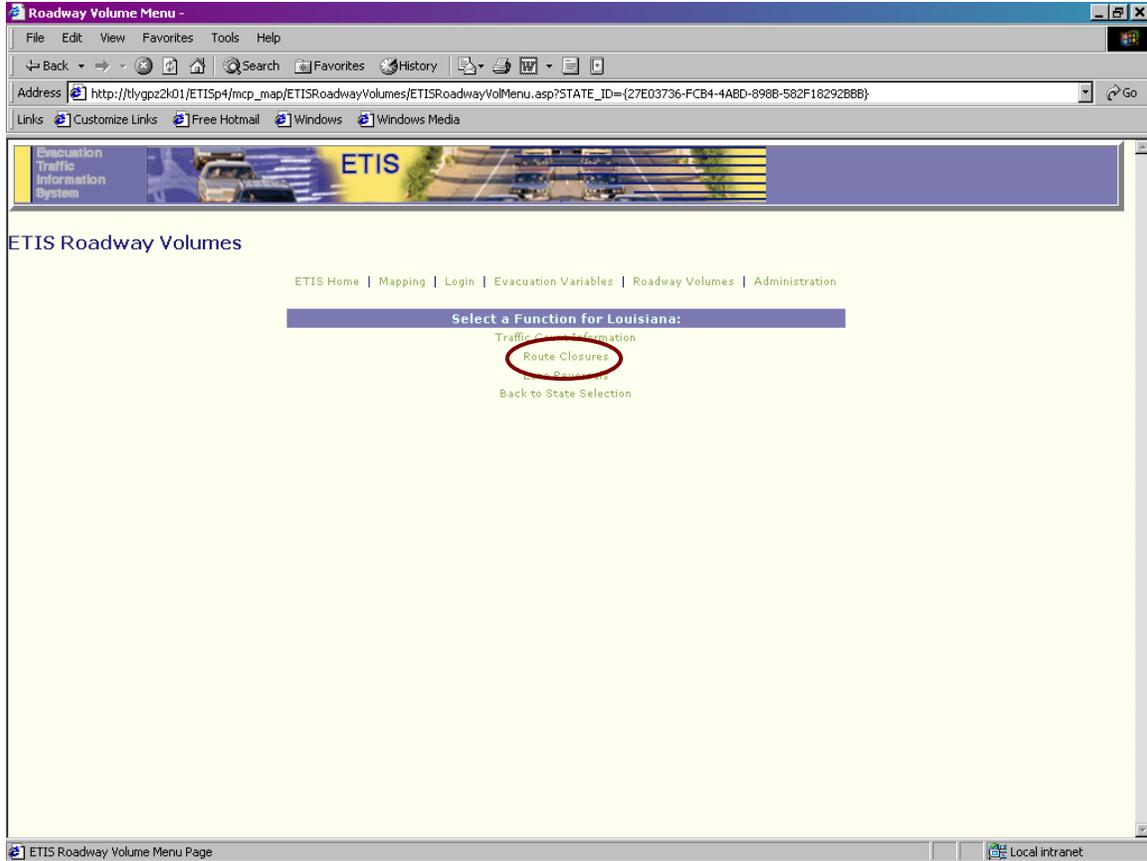
Three fields are available for input: current traffic volume, current travel speed, and total evacuation traffic count. Enter the information in each of the designated areas. Once the data has been entered, select ***Update Traffic Information***. This will add the traffic count information to the model. The new information may be viewed via the main map screen by selecting ***Mapping***.

The screenshot shows a web browser window titled "Input Traffic Count Information". The page header includes "ETIS Roadway Volumes" and navigation links. A button labeled "Update Traffic Count Information" is highlighted with a red arrow. Below the button is a table titled "Florida: Enter / View Traffic Count Information".

STATION DESCRIPTION	CURRENT TRAFFIC VOLUME	CURRENT TRAFFIC SPEED	NORMAL DAILY VOLUME FOR HOUR	TOTAL EVACUATION TRAFFIC COUNT (If Available)	COUNT DATE
I-10 westbound at Alabama	<input type="text" value="0"/>	<input type="text" value="0"/>	2300	<input type="text" value="0"/>	
I-75 northbound at Georgia	<input type="text" value="0"/>	<input type="text" value="0"/>	3450	<input type="text" value="0"/>	
I-95 northbound at Georgia	<input type="text" value="0"/>	<input type="text" value="0"/>	2300	<input type="text" value="0"/>	
US 1 northbound at Georgia	<input type="text" value="0"/>	<input type="text" value="0"/>	2300	<input type="text" value="0"/>	
US 19 northbound at Georgia	<input type="text" value="0"/>	<input type="text" value="0"/>	2300	<input type="text" value="0"/>	
US 231 northbound at Georgia	<input type="text" value="0"/>	<input type="text" value="0"/>	2300	<input type="text" value="0"/>	
US 29 northbound at Georgia	<input type="text" value="0"/>	<input type="text" value="0"/>	2300	<input type="text" value="0"/>	
US 319 northbound at Georgia	<input type="text" value="0"/>	<input type="text" value="0"/>	2300	<input type="text" value="0"/>	
US 331 northbound at Georgia	<input type="text" value="0"/>	<input type="text" value="0"/>	1150	<input type="text" value="0"/>	

## Roadway Volumes - Route Closures

The second menu option under Roadway Volumes is **Route Closures**. This option allows you to display road closures on the main map screen.



## Roadway Volumes - Route Closures

Upon selecting **Route Closures**, an input table becomes available. Use the pull-down menus to select the *State* containing the route. Using the *Corridor* list select the roadway to be closed. In the *From* and *To* pull-down menus, select segment of roadway to be closed.

Once the roadway segments have been selected, click on **Commit Route Closure**. The selected segment will then appear under the list of Existing Route Closures. Clicking the **Open Route** button next to the desired roadway segment will reopen a selected facility.

ETIS: Route Closures -

File Edit View Favorites Tools Help

Address [http://tlygpz2k01/ETISp4/mcp\\_map/ETISRoadwayVolumes/ETISRoadwayVolRouteClosures.asp](http://tlygpz2k01/ETISp4/mcp_map/ETISRoadwayVolumes/ETISRoadwayVolRouteClosures.asp)

Evacuation Traffic Information System

### ETIS Roadway Volumes

ETIS Home | Mapping | Login | Evacuation Variables | Roadway Volumes | Administration

Back to State Selection | Back to Roadway Menu

**Route Closures**  
Report Date: 3/10/2003 - 12:56:29 PM EST

STATE	CORRIDOR	FROM	TO
Louisiana	I 10	I 12 in Baton Rouge	LKP Causeway in New Orleans

Commit Route Closure

**Existing Route Closures**

Closed Route	From	To	Date / Time	
I 10	I 12 in Baton Rouge	LKP Causeway in New Orleans	3/10/2003 12:56:29 PM	Open Route

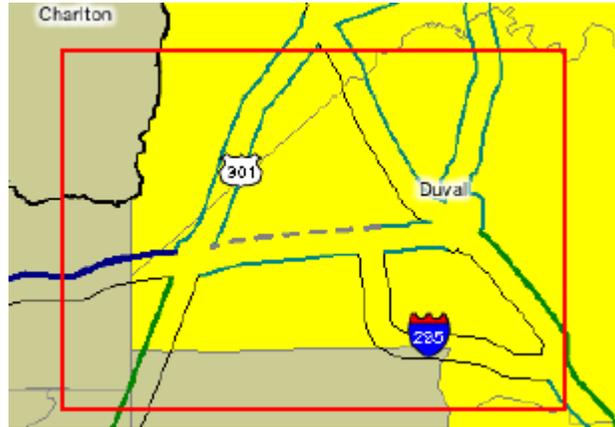
Close Routes

Reopen Routes

ETIS Route Closure Local intranet

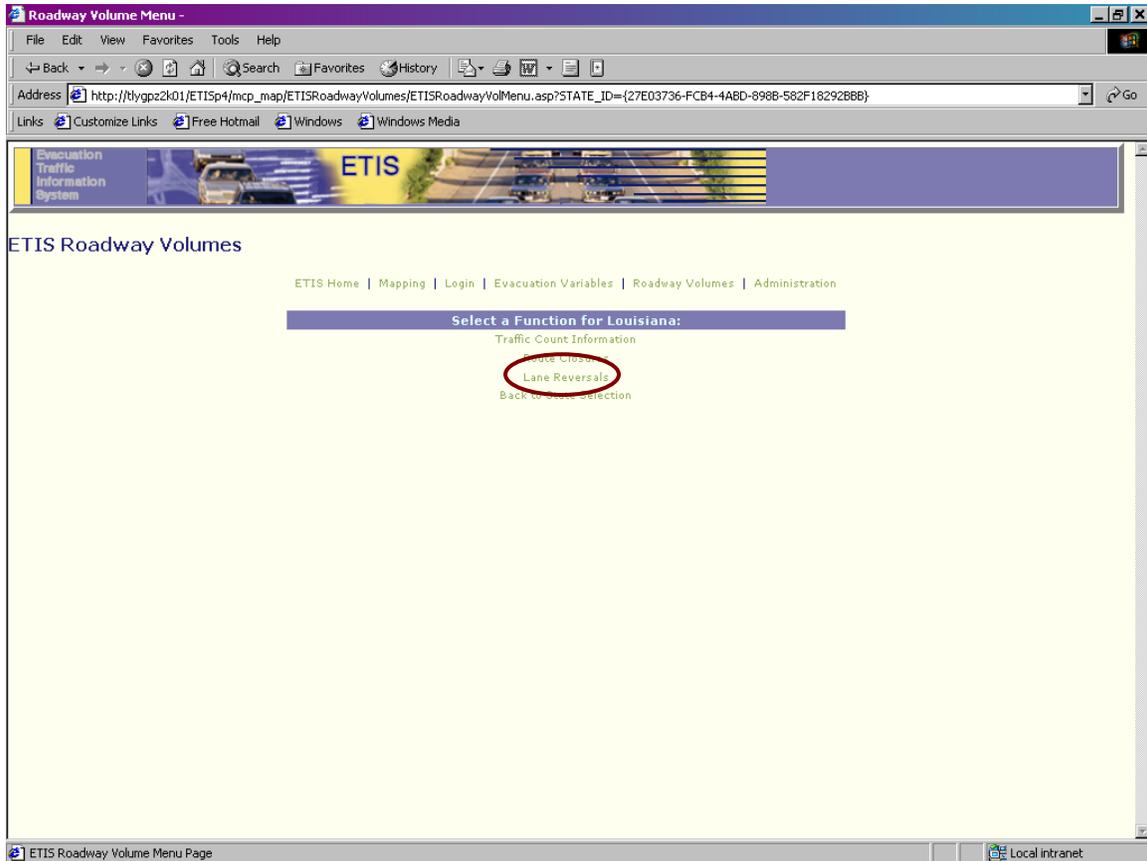
## Roadway Volumes - Route Closures

Route closures may also be viewed from the main map screen. A list of closed facilities is available on the left hand side of the screen. Also, the map shows closed facilities as a dashed gray line.



## Roadway Volumes - Lane Reversals

The third menu option under *Roadway Volumes* is *Lane Reversals*.



## Roadway Volumes - Lane Reversals

Selecting *Lane Reversals* opens a table that allows for segments of roadways to be reversed. Lanes may only be reversed for those roads listed in the table. These segments are official routes that have been designated by each state for reversal.

ETIS Roadway Volumes

ETIS Home | Mapping | Login | Evacuation Variables | Roadway Volumes | Administration

Back to State Selection | Back to Roadway Menu

Update Reverse Lane Information

DESCRIPTION	IMPLEMENTED	INPUT DATE
Alligator Alley I-75 (easterly)	NO	
Alligator Alley I-75 (westerly)	NO	
Beeline SR528 from I-95 to Orlando (westerly)	NO	
I-10 from Jacksonville to Tallahassee (westerly)	NO	
I-4 from Tampa to Orlando (easterly)	YES	
I-75 from I-275 to Turnpike (northward)	NO	
Turnpike from SR70 to Orlando (northward)	NO	

Update Reverse Lane Information button

Select Yes to Reverse Lanes

Select “yes” from the pull-down menu to reverse lanes. Once “yes” is selected, the implementation date defaults to the current date. Change the date by typing in the desired date. Select *Update Reverse Lane Information* to complete the reverse lane process.

## Viewing Data on the Main Map Screen

There are several ways to view county information on the main map screen. One is to view the data in a tabular format. Always located on the left hand side of the main map screen are three tables with county/parish information. One is the Evacuating Counties table. This table lists those counties/parishes that have been committed. Also included is county/parish information such as category of storm, evacuation type, date of evacuation, and evacuation start time.

*Screen Refresh*

*Counties that have been committed*

STATE	NAME	CAT	PRATE	VHCLS	TYPE
FL	Duval	4	90%	69,480	M
FL	Flagler	4	90%	13,680	M
FL	Nassau	3	90%	10,800	M
FL	St Johns	5	90%	46,080	M
GA	Camden	3	90%	4,140	M
GA	Chatham	2	90%	14,400	M
GA	Glynn	3	90%	12,600	M
GA	McIntosh	2	90%	900	M
TOTAL:		8		172,080	

Lane Reversals  

STATE	DESCRIPTION	INPUT DATE

Route Closures  

STATE	CLOSED	FROM	TO	INPUT DATE
FL	1 95	SR 100	I 10	3/10/03 3:25:29 PM

Active Layer: Evacuating Counties

Use the **Refresh** button above the Evacuating Counties table to refresh the Evacuating Counties, Lane Reversal, and Route Closures tables at any time.

## Viewing Data on the Main Map Screen

A second table, labeled *Lane Reversals*, lists those roads that have been reversed. This indicates that a state has reversed a segment of roadway. Information such as the roadway description and date of reversal are also available.

The screenshot shows the ArcIMS HTML 3.0 Viewer interface. The main map displays the United States with a focus on the Southeast. The interface includes a navigation toolbar, a table for 'CURRENT STATUS Evacuations', a table for 'Lane Reversals', and a table for 'Route Closures'. A red bracket on the left side of the 'Lane Reversals' table is labeled 'Reverse Lane Information'.

CURRENT STATUS Evacuations					
STATE	NAME	CAT	PRATE	YHCLS	TYPE
FL	Duval	4	90%	69,480	M
FL	Flagler	4	90%	13,680	M
FL	Nassau	3	90%	10,800	M
FL	St Johns	5	90%	46,080	M
GA	Camden	3	90%	4,140	M
GA	Chatham	2	90%	14,400	M
GA	Glynn	3	90%	12,600	M
GA	Mcintosh	2	90%	900	M
TOTAL:		8		172,080	

Lane Reversals		
STATE	DESCRIPTION	INPUT DATE

Route Closures				
STATE	CLOSED	FROM	TO	INPUT DATE
FL	I 95	SR 100	I 10	3/10/03 3:25:29 PM

Reverse Lane Information

## Toolbar Functions

The Toolbar is located on the upper left hand corner of the Map Frame.



Below are descriptions of each tool as selected from left to right.

<b><i>Overview Map</i></b>	Toggles overview map on and off
<b><i>Zoom In</i></b>	Click once to zoom in 5% or click and drag over area of interest
<b><i>Zoom Out</i></b>	Click once to zoom out 5% or click and drag over area of interest
<b><i>Zoom to Full Extent</i></b>	Zooms to the extent of all data layers
<b><i>Zoom to Active Layer</i></b>	Zooms to the active layer
<b><i>Back to Last Extent</i></b>	Zooms to the previous extent
<b><i>Pan</i></b>	Click and hold moving to the area of interest
<b><i>Identify</i></b>	Retrieves data on the feature selected in the active layer
<b><i>Clear Selection</i></b>	Clears all selected features in the active layer
<b><i>Print</i></b>	Creates a page to be printed

## Viewing and Identifying Feature Layers

Example: Traffic Count Stations

Traffic count stations are displayed as pink stars on the map. Traffic count stations will not display at a large scale. To view traffic count stations, zoom in to the desired area. This is done by selecting the *Zoom-In* button located at the toolbar at the upper left-hand side of the map, then click and drag the cursor over the desired area. Traffic count stations are currently available at the state borders.

The screenshot shows the ArcIMS HTML 3.0 Viewer interface for the ETIS (Evacuation Traffic Information System). The main map area displays a geographic view of Florida and Georgia, with traffic count stations marked as pink stars. A red box highlights the 'Active Layer' dropdown menu, which is currently set to 'Traffic Count Stations'. The interface also includes a toolbar with navigation buttons, a legend, and a data table for current status.

STATE	NAME	CAT	PRATE	WHCLS	TYPE
FL	Duval	3	90%	55,080	M 3
FL	Flagler	4	90%	13,680	M 3
FL	Nassau	2	90%	8,820	M 3
FL	St Johns	3	90%	43,560	M 3
FL	Volusia	3	90%	35,100	M 3
TOTAL:	5			156,240	

STATE	DESCRIPTION	INPUT DATE
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STATE	CLOSED	FROM	TO	INPUT DATE
FL	I 295	I 95	I 10	3/12/03 4:23:11

Change Active Map Layer

To view traffic count data the active layer must be set to *Traffic Count Stations*. To change the active layer use the pull-down menu located at the lower right-hand side of the main map screen. Once the active layer is set to *Traffic Count Stations*, information on the stations may be viewed using the *Identify* button.

## Viewing and Identifying Feature Layers

Example: Traffic Count Stations

The *Identify* button is located at the upper left toolbar. First, select the *Identify* button. Once selected, the *Identify* button will be outlined in red. Then, using the mouse, click on the desired traffic count station. A table will appear listing any traffic information that has been entered for the station.

The screenshot displays the ETIS (Evacuation Traffic Information System) web application. The main interface includes a navigation menu with options like STATUS, SEARCH, LEGEND, and HELP. On the left, there are three data tables: 'CURRENT STATUS Evacuations', 'Lane Reversals', and 'Route Closures'. The 'CURRENT STATUS Evacuations' table is as follows:

STATE	NAME	CAT	PRATE	VHCLS	TYPE
FL	Duval	3	90%	55,080	M 3.
FL	Flagler	4	90%	13,680	M 3.
FL	Nassau	2	90%	8,820	M 3.
FL	St Johns	3	90%	43,560	M 3.
FL	Volusia	3	90%	35,100	M 3.
TOTAL:	5			156,240	

The 'Route Closures' table is as follows:

STATE	CLOSED	FROM	TO	INPUT DATE
FL	I 295	I 95	I 10	3/12/03 4:23:11

The main map area shows a geographical view of Florida with various counties labeled. A red star icon is placed on the map, indicating a selected traffic count station. An 'Identify' button is visible at the bottom left of the map area. A small window titled 'ETIS Query Selection Results - Traffic Count Stations' is open, displaying the following table:

Rec ID	DESC	STATE	ROUTE	#SHAPE	#ID#
1	US 319 northbound at Georgia	Florida	94-97	[point]	5

A red arrow points from the text 'Traffic Count Station Information' to this window. The browser's address bar shows the URL: http://12.27.156.2/Phase4/MCP\_MAP/viewer.asp. The bottom of the page features a toolbar with buttons for 'Evacuation Variables', 'Roadway Volumes', 'Administration', and 'Active Layer: Traffic Count Stations'.

## Viewing and Identifying Feature Layers

Example: Traffic Congestion

Traffic congestion or roadway volumes may also be viewed from the main map screen. This is done similar to traffic counts, except that the active layer must be *ETIS Routes*, First *Zoom-In* on the desired roadway. Set the active layer to *ETIS Routes*, and select *Identify* from the toolbar. Once the *Identify* button is outlined in red, click on the desired route.

ETIS Query/Selection Results -

Rec	LENGTH	ANODE	BNODE	ID	CROSSFR	CROSSSTO	SPEED	RDTYPE	LANES	VOLUME	LABEL	STATE	DESC	ROUTE	CLOSED	ENGSTN	#SHAPE#	#ID#
1	0.312	12	426	12-426			70	Interstate	3	3450	I-95	Florida	I 95 Duval County	I 95	False	3.3742	[line]	727

Address: http://12.27.156.2/Phase4/MCP\_MAP/viewer.asp

Evacuation Traffic Information System

STATUS SEARCH LEGEND HELP

FORMS REPORTS PLOT

CURRENT STATUS

Evacuations

STATE	NAME	CAT	PRATE	WHCLS	TYPE
FL	Duval	3	90%	55,080	M 3.
FL	Flagler	4	90%	13,680	M 3.
FL	Nassau	2	90%	8,820	M 3.
FL	St Johns	3	90%	43,560	M 3.
FL	Volusia	3	90%	35,100	M 3.
TOTAL:	5			156,240	

Lane Reversals

STATE	DESCRIPTION	INPUT DATE
-------	-------------	------------

Route Closures

STATE	CLOSED	FROM	TO	INPUT DATE
FL	I 295	I 95	I 10	3/12/03 4:23:11

Identify

Evacuation Variables Roadway Volumes Administration

Active Layer: ETIS Routes

Map: -82.07, 30.37 -- Image: 197, 160 -- ScaleFactor: 0.002138661081081091

Change Active Map Layer

An information box will appear listing information on the selected roadway such as congestion level and forecasted roadway volumes.

## Administration

If the user has administrative rights, they will have access to the Administration button and access to change information at state and local levels.

The screenshot displays the ArcIMS HTML 3.0 Viewer interface for the ETIS (Evacuation Traffic Information System). The browser address bar shows the URL: `http://112.27.156.2/Phase4/mcp_map/viewer.asp`. The interface includes a navigation toolbar, a map of the United States with Florida highlighted, and a data table for current evacuation statuses.

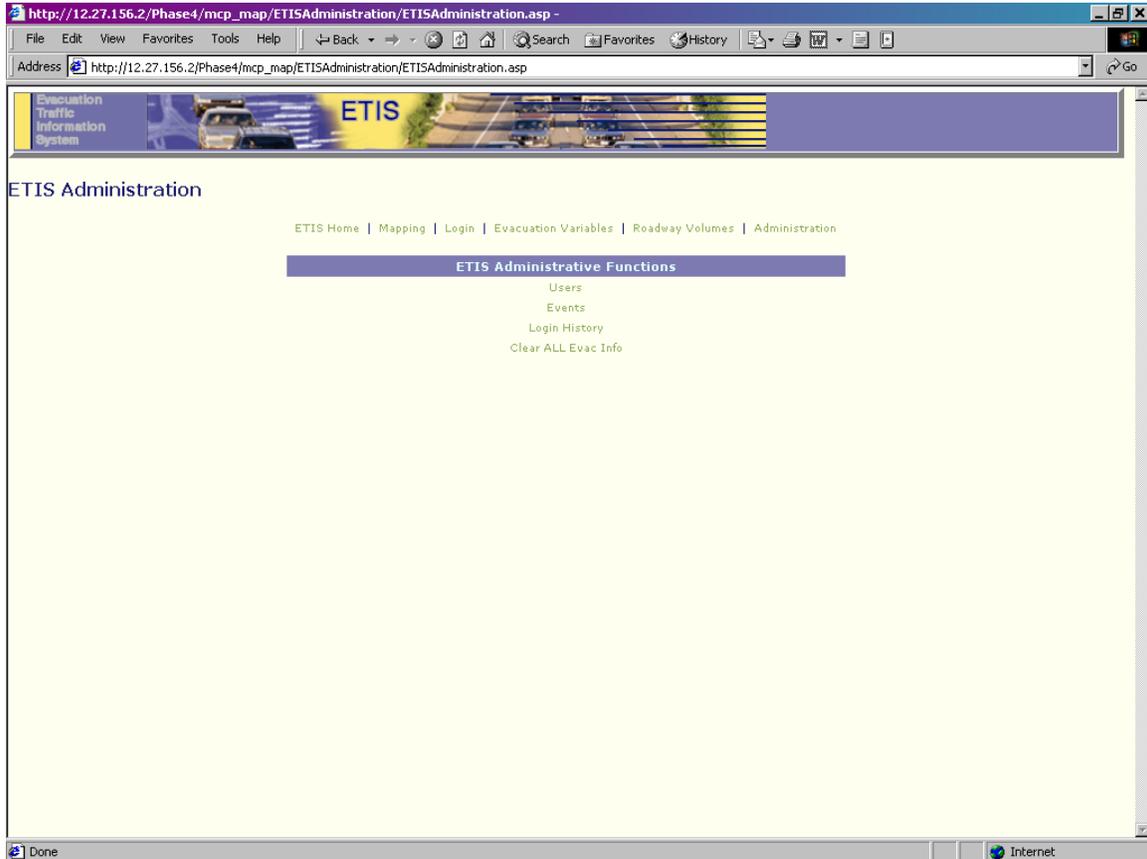
STATE	NAME	CAT	PRATE	WHCLS	T
FL	Hillsborough	5	90%	63,610	
FL	Manatee	4	90%	27,617	
FL	Pasco	3	90%	37,384	
FL	Pinellas	5	90%	112,112	
FL	Sarasota	3	90%	24,300	
TOTAL:	5			265,023	

Below the table, there are sections for "Lane Reversals" and "Route Closures", each with a table structure for STATE, DESCRIPTION, INPUT DATE, CLOSED, FROM, TO, and INPUT DATE. At the bottom of the interface, a red box highlights the "Administration" button in the layer control area. A red arrow points from the word "Administration" in the text below to this button.

*Administration*

## Administration - Functions

Once the user has chosen the Administration button, a screen will show Administrative Functions: Users, Events, Login History, and the option to Clear All Evacuation Information.



## Administration – Users

Selecting *Users* will display the following screen. The screen will show the name of the users, the agency they are associated with, and access level for the login. The different levels of access are *Viewer*, *State*, *Super*, or *Administrator*. The following shows the screen that will appear.

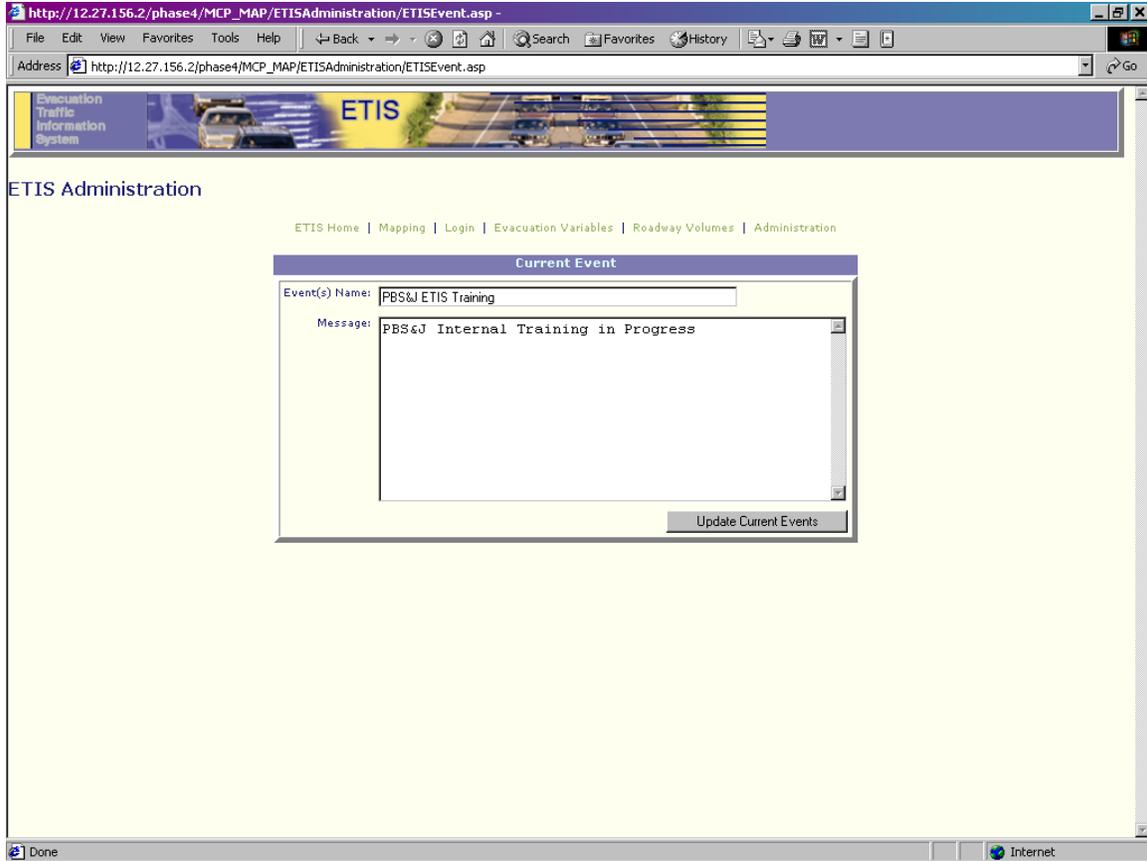
The screenshot shows a web browser window displaying the ETIS Administration Users page. The browser's address bar shows the URL: [http://12.27.156.2/Phase4/mcp\\_map/ETISAdministration/ETISUsers.asp](http://12.27.156.2/Phase4/mcp_map/ETISAdministration/ETISUsers.asp). The page title is "ETIS Administration". The navigation menu includes: [ETIS Home](#) | [Mapping](#) | [Login](#) | [Evacuation Variables](#) | [Roadway Volumes](#) | [Administration](#).

The main content area displays a table titled "ETIS Users" with the following data:

User	Agency	Access Level
Tom McAllister	Mississippi	Viewer
Tom McAllister	Mississippi	Mississippi
Jan Benini	Department of Transportation	Viewer
John Boettcher	South Carolina	Viewer
Keith Wages	Georgia	Viewer
Pete McGough	Alabama	Alabama
	Texas	Texas
John Eringman	Army Corps of Engineers	Viewer
Russell A. Yurek	Maryland	Maryland
Gary Falcinowski	North Carolina	North Carolina
Pete McGough	Alabama	Viewer
Russell A. Yurek	Maryland	Viewer
Brandy Hicks	Federal Highway Administration	Viewer
Stewart Baker	Virginia	Viewer
Keith Wages	Georgia	Georgia
Chuck Greg	Region VI ROC	Administrator
	Texas	Viewer
Don Lewis	PBS&J	Administrator
Gary Falcinowski	North Carolina	Viewer
Michelle Palmer	PBS&J	Super
Roberta Thomas	PBS&J	Administrator
Bob Collins	Florida	Viewer
Stewart Baker	Virginia	Viewer
Mike Foran	ELT	Administrator
Bob Collins	Florida	Florida
Sean Fontenot	Louisiana	Louisiana
Kevin W. Kille	Delaware	Viewer

## Administration – Event

This screen allows the user to update the current event messages though out the application.



## Administration – Login History

Once the Login History is selected, this screen will appear showing the name, agency, and login date. This screen shows the last 90 days of activity.

ETIS Administration

ETIS Home | Mapping | Login | Evacuation Variables | Roadway Volumes | Administration

ETIS Logins for last 90 days		
User	Agency	Login Date
Michelle Palmer	PBS&J	3/19/03 2:53:33 PM
Michelle Palmer	PBS&J	3/19/03 2:33:02 PM
Michelle Palmer	PBS&J	3/19/03 9:10:07 AM
Michelle Palmer	PBS&J	3/18/03 11:00:40 AM
Christy Palin	PBS&J	3/18/03 10:44:18 AM
Michelle Palmer	PBS&J	3/18/03 9:11:45 AM
Michelle Palmer	PBS&J	3/17/03 7:51:27 AM
Michelle Palmer	PBS&J	3/14/03 2:26:18 PM
Roberta Thomas	PBS&J	3/14/03 2:24:42 PM
Michelle Palmer	PBS&J	3/14/03 2:08:21 PM
Michelle Palmer	PBS&J	3/14/03 1:58:52 PM
Michelle Palmer	PBS&J	3/14/03 1:51:04 PM
Michelle Palmer	PBS&J	3/14/03 1:49:03 PM
Roberta Thomas	PBS&J	3/14/03 1:37:39 PM
Michelle Palmer	PBS&J	3/14/03 1:35:34 PM
Roberta Thomas	PBS&J	3/14/03 1:34:06 PM
Roberta Thomas	PBS&J	3/14/03 1:25:17 PM
Michelle Palmer	PBS&J	3/14/03 1:25:14 PM
Michelle Palmer	PBS&J	3/14/03 1:25:12 PM
Michelle Palmer	PBS&J	3/14/03 1:25:10 PM
Michelle Palmer	PBS&J	3/14/03 1:25:08 PM
Michelle Palmer	PBS&J	3/14/03 1:11:07 PM
Roberta Thomas	PBS&J	3/14/03 12:57:52 PM
Michelle Palmer	PBS&J	3/14/03 12:57:45 PM
Michelle Palmer	PBS&J	3/14/03 12:56:50 PM
Michelle Palmer	PBS&J	3/14/03 11:01:03 AM
Michelle Palmer	PBS&J	3/13/03 3:26:51 PM

## Administration – Clear ALL Evac. Info.

Once *Clear All Evac. Info.* is selected, the screen below will appear, giving the user information on what will be cleared in the system. If the user wants to clear only a portion of the data, they will need to go back the individual sections.

