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Introduction to CTTP

The CTTP 2000 Data Browser

CTPP is a set of special tabulations designed for transportation planners from the decennial census. CTPP contains tabulations by place of residence, place of work, and for flows between home and work.

CTPP is the only Census product that summarizes data by place of work and provides information on the travel flow between home and work.

It is the only source of information provided by the Census Bureau with summary tabulations available for Traffic Analysis Zones (TAZs) and other small geographic areas.

CTPP 2000 is sponsored by the State Departments of Transportation under a pooled funded arrangement with the American Association of State Highway and Transportation Officials (AASHTO).

What is new in CTPP 2000?

- Improved employer coding
- State TAZs added as a geographic reporting level
- TAZs included in TIGER/ Line well before tabulation stage
- Greater use of Geographic Information Systems (GIS) and database formats
- New tables to aid emerging planning issues
- Potential for custom tabulations
- Speedier delivery

CTPP 2000 data access plan

- User- friendly program to extract data
- Choose tables by topic area
- Point + click row and column summaries
- GIS for data query and mapping
- Export data to database formats
- Output data to GIS useable formats

Where can I get more information?

Call the CTPP Hot line at:

202-366-5021

http:// www. mcs. com/~ berwyned/ census/

Listserv: To subscribe, send an e- mail to majordomo@ chrispy. net with the body as "Subscribe ctpp- news".

E mail: ctpp@ fhwa. dot. gov

Create Session

Creating Sessions in the CTTP Data Browser

Select File > Create Session

File	Window Help
C	reate Session
0	pen Session
C	lose Session
E	dit Session
C	opy Session
R	emove Session
0	pen Session Table
E	×it

Selecting the Create Session option will open the following window requiring the user to name the Data and Session Path and to give the current session project a name. Click OK. The Create Session Interface Window will open.

reate Session	2
Data Path:	E:\ctpp_cdrom
Session Path:	c:\temp
Session Name:	test2
	OK Cancel

The browse buttons to the right of the path names can be used to find folder locations.

Click OK.

••••

Browse for Folder	<u>?</u> ×
Select the path where the data is located.	
E. I My Computer	
🗈 🚍 Local Disk (C:)	
🗄 🚍 Burns Data (D:)	
Encal Disk (E:)	
H → 🛫 abdata on Delisituu (F:)	
🖶 🚽 abdata on 'Fhgateway2000' (I:)	
🗄 🎰 🏠 Compact Disc (J:)	
🗈 🚽 abdata on 'Fhgateway2000' (K:)	
	-
OK Cano	el

Using the Create Session Interface Window

Create Session Interface Window

Cre	ate Session			t na sta		LICE AND						No.
D	ata Path:	E:M	ctpp_cdrom									
9	elect a Geogra	phic T	уре		Display	Geogra	phy Se	lected Feat	ures	3		
14 9 17	elect Features		enenenene									
					Zoom	Zoom	Pan	Select			Main Roads	
	Unselect Lev	/el	Select Entire	Level .		A	wiah	reature				
	Cancel									< Previous	Ne	X

Select a Geographic Type.
 Select Features
 Display Geography/ Selected Features
 Previous/Next

Select Geographic Type

Select a Geographic	Туре 🚺
blkgrp.shp county.shp cousub.shp level072.shp level082.shp level385.shp level795.shp level930.shp	
ieveloot.snp	
Unselect Level	Select Entire Level

Clicking the Pull Down Arrow displays the list of shapefiles available for selection.

Here, Block Groups have been selected and are now available in the Select Features section of the interface.

Select a Geographic Type	Display Geography Selected Features 3
blkgrp.shp	
Lincoln Lane Lane Lane Lake Unselect Level Select Entire L	Zoom Zoom Pan Select Display Main Roa

Select Features



The user may select features by checking the appropriate box. In this example, the counties are listed. The Display Geography tab has been selected which allows the user to view the selections made in map format. The map indicates that Sherman County has been selected. All selections are colored in red.

The plus signs adjacent to the county names indicates that more information is available. In this instance, clicking on the plus sign will display the block groups contained within Sherman County. The user may now select individual block groups. Once a block group(s) is (are) selected they are displayed in red on the map. The cursor will indicate the name and number of the county which parallels the <u>Select Features</u> list.

The user may choose to <u>Select the Entire Level</u> or <u>Unselect</u> a particular level using the buttons underneath the <u>Select</u> <u>Features</u> list.

Click Next to move into the next phase of the session, Working with Tables.

Select a Geographic Type	Display Geography Selected Features 3
blkgrp.shp	
Select Features	2
	County: Sherman BlkGrp 410559501.002
Linn 2	Zoom Zoom Pan Select Display Main Roads

Display Geography

Selecting this tab allows the user to view selected features they have chosen from the Select Features list in map format.



The Viewing tools at the bottom of the map can be used to pinpoint certain areas of the map.

- <u>Zoom In</u> Enlarges the map to view areas in more detail.
- Zoom All Returns map to its full view.
- Pan Map Allows the user to navigate to certain areas of the map.
- <u>Select Feature</u> Allows the user to use the cursor to click and select certain features of the map for analysis. The feature will be checked off in the Select Features List and the selection will be indicated on the map in red.

In the following window, the <u>Select Feature</u> viewing tool has been activated. As the cursor navigates over the map, it will identify each particular County and block group. Click on the county and/or block group of interest to select it.



The following window illustrates that Sherman County has been selected on the map and is also checked off in the Select Features list.



Display Main Roads



Display Main Roads option is available. Simply check the Display Main Roads box to activate it.

The following map illustrates the new view with the Main Roads included.



Selected Features

Clicking the Selected Features tab will display which features have been selected from the Select Features List.



All selections can be cleared using the <u>Clear All</u> button. Individual selections can be cleared from the list. Highlight the selection and click Clear Selected.

Display Geography Selected Features	
blkgrp > Sherman > 410559501.001 blkgrp > Sherman > 410559501.002	
blkgrp > Sherman > 410559501.003	
blkgrp = 3	Clear ALL
	Clear Selected

Previous/Next



Once the selections are made, click Next to move on to Working with Tables.

Working with Tables

Session Tables Window

Data Path: E:\ctpp_cdrom Select Table Part 1: At Residence: Rat 2: At Workplace:	Key Word Search:	▼ Searc
Part 3: Small Geography: Part 3: Large geography: Part 3: Large Geography:	Select Tables Selected Tables 3	
Cancel		ious [Fin

Once the geographic features have been selected, tables can be generated.

1. <u>Select Table</u> - Clicking the folders opens the list of tables of data available.

2. Select Tables - Once the table is selected, the title of the table is named and the contents are listed with the Table # and the number of Cells it contains.

3. <u>Selected Tables</u> - Lists the tables that have been selected.

4. Previous/Finish - Previous allows access back to the Create Session Window which displays the selected geography. Finish takes the user into the Open Session Table Window.

Select Table

.....

The Select Table portion of the window displays the folders that contain the tables to access.

Select Table 1						
🖄 Part 1: At Residence:						
Part 2: At Workplace:						
Part 3: Small Geography:						
Part 3: Large geography:						
Part 3: Large Geography:						

Opening a folder will list the tables that are available. Click on a table to access the fields of data. See Select Tables/Universe for more information.

	Select Table 1					
		Part 1:	At Residence: All Workers Workers in households (e All Persons (except where All Households Housing Units Derived Measures At Workplace:			
AND STOLED TO ST		Part 3: Part 3: Part 3:	Small Geography: Large geography: Large Geography:			
United and a second state	•					

Universe

Select Table Part 1: At Residence: Image: All Workers Image: Workers in households (end)	Key Word Search:	
	Select Tables Selected Tables 3	earc
All Households	Universe: All households	
Housing Units		
Derived Measures	1-060 Total number of households (1)	1
Part 2: At Workplace:	1-061 Tenure (5)	1
Part 3: Small Geography.	1-062 Household size (5) by Number of workers in household (6)	30
Part 3: Large Geography:	1-063 Household size (5) by Vehicles available (6)	30
	1-064 Household size (5) by Household income in 1999 (26)	13
	1-065 Number of workers in household (6) by Vehicles availabl	36
	1-066 Number of workers in household (6) by Household inco.	15
	Description: Household size (5) by Number of workers in household (6)-	
	Table Fields:	
	1: Total households	
	2:1-person household	
/1 SI	3:2-person household	

Selecting a table from the available folders will display the table information in the Select Tables window (See #2). The name of the table is displayed (See Universe: All Households). The Table #, Content and # of Cells is listed within the window.

Click on a particular table to view a description of the Table Fields. In this example, the table of Household Size data is highlighted. The fields are listed in the Description Window. Use the scroll bar to view all of the table fields.



The Clear Selection Button returns the list of table back to its original state.

Click on the Selected Tables tab to view a list of the tables which have been chosen.

Once the tables have been selected, click Finish to move on to Open Session Table. The Previous button, will allow access back to the geography screen.

Selected Tables

Lists the Tables that have been selected from the Select Tables List..

Select Tables Selected Tables
Number of Tables: 4
1-001 - Part 1: At Residence: > All Workers > Time leaving home to go to work (40) 1-002 - Part 1: At Residence: > All Workers > Sex (3) by Means of transportation to 1-003 - Part 1: At Residence: > All Workers > Sex (3) by Occupation (25) 1-004 - Part 1: At Residence: > All Workers > Sex (3) by Industry (15)

Previous/Finish

Select Table Part 1: At Residence: Part 2: At Workplace:	Key Word Search:	Searc
 Part 3: Small Geography: Part 3: Large geography: Part 3: Large Geography: 	Select Tables Selected Tables 3	
	Table # Content	#1
	Description	

Previous allows access back to the Create Session Window which displays the selected geography.

Finish takes the user into the Open Session Table Window.

Key Word Search

This tool allows the user to search table fields to locate pertinent data.

Key Word Search:		
	Search	

Enter the Key Word in the space provided. Clicking the Pull Down Arrow will open the list of fields that contain the Key Word.

In the following example, the Key Word "Hispanic" drew two matches which is noted ; "Found 2 Matches". The Pull Down List names the two matches found within the tables. Select the appropriate match and click "Search".

ey Word Search: hispanic Found 2 m			nd 2 matches
lispanic Origin of Householder 📃 💽 Sea			Search
lispani Iispani	<mark>e Origin</mark> (e Origin	of Householder	
2 U	niverse:	All households	
Table #		Content	# Ce 🔺
	1-076	Household size (5) by Vehicles available (6) by Househ	n 330
	1-077	Household size (5) by Vehicles available (6) by Numbe	r 210
	1-078	Household size (5) by Vehicles available (6) by Tenure	(5) 150
	1-079	Number of workers in household (6) by Vehicles availa	Ы 396
	1-080	Vehicles available (6) by Race of householder (5) by H	is 90 📕
	1-081	Race of householder (5) by Hispanic origin of househo	il 45 🚽
7	1-082	Household size (5) by Household income in 1999 (11) I	ь 825 📕

Here, "Hispanic Origin" was selected as the table of interest. The table is then located and highlighted by the program.

Ke	Key Word Search: hispanic Found 2 n			<u>match</u> es
Hi	Hispanic Origin 📃 Se			earch
Select Tables Selected Tables 3				
2 Universe:		niverse:	- All workers	
ſ	Table #		Content	# C∈ ▲
		1.018	Length of US residence (5) by Worker earnings in 1999	60
		1-019	Worker earnings in 1999 (12) by Travel time to work (17)	192
		1-020	Length of US residence (5) by Means of transportation t	55
		1-021	Means of transportation to work (11) by Time leaving ho	154
		1-022	Means of transportation to work (11) by Travel time to w	176
		1-023	Hispanic origin (3) by Race of person (5) by Occupation	375
	•	1-024	Hispanic origin (3) by Bace of person (5) by Industry (15)	225

Display Map

MAPViewer

Once a table has been generated, the Display Map tool will depict the table data in map format.



1. MAPViewer Pull Down Menus

MAP viewer Full Down Me
 MAPViewer Tool Options
 MAPViewer Legend
 Map View
 Map Index

MAPViewer Legend

3 - <u>The Map Legend</u> lists the layers of shapefiles that are available for viewing within the Map View. Clicking a layer box will display or remove a layer from the map view.

In this Map View, all layers are visible.



The following map displays the new map view with the Water shapefile turned off in the Map Legend.
CTPPMAPViewer	
File Edit Selection Advanced Too	s Help
🖪 🚯 🗏 Q Q 🗶 🔇 💥	£ 23 🧶 🥴 🕕 📐 🚵 🔈 🏈
 mroads.shp water.shp test8.shp place.shp county.shp 	

Map View

The Map View (see #4) displays the current map extent in use. The Map Legend dictates which shapefiles are used to create the map..



Map Index

The Index Map displays the map view at full scale with the zoomed features indicated by a red box. (See #5). As the Map View is changed the Index Map red box will shift accordingly.



MAPViewer Pull Down Menus

File

MAPViewer File Pull Down Menu



Export Map Data Map Layout Print Preview Printer Setup Print Return to Tables

Export Map Data

File > Export Map

This allows the user to save map selections for export and use in other programs. The following window will open to name the map selection. The file will be saved as a shapefile, (*.SHP) extension.

Export MapView				210 ? X
Save in:	🔂 Robohelp_F	or_CTTP	- 🗧 🕂 🗉	•
History History Desktop My Documents	itest10.shp itest8.shp itest9.shp			
My Computer	File name: Save as type:	test11 ESRI Shape File (*.SHP)	×	Save Cancel

This map depicts the county of interest.



This map depicts the current selection, colored in royal blue, as well as two previous areas of the map that had been exported. Checking off the Test10 and Test8 layers would leave the Test11 map.



Map Layout

Map Layout Configuration Window

File > Map Layout

File	•
	Save As Export Map Data
	Map Layout
	Print Preview
	Printer Setup Print 🕨
	Return to Tables

The Map Layout option allows the user to customize the map configuration for printing. The following window will open.

Crientation Landscape	Draw a North Arrow
Portrait	Enter a Map Title:
Letter	Enter the Text Font Size: 24
Height 8.5	Map Scale Parameters
Legend Placement	Fit The map to the current page size
Left of Map C Right of Map Do not place a Legend	Create map using a Scale of 1: 400000

Map Scale

The user may choose to select the "Fit The map to the current page size" option simply by checking the box.

- Page Orientation	
Landscape Portrait	Draw a North Arrow Map Title Enter a Map Title:
Paper Size	Sherman County
Vidth 11 Height 8.5	Enter the Text Font Size: 24 Map Scale Parameters
Legend Placement	Fit The map to the current page size
Left of Map C Right of Map Do not place a Legend	Create map using a Scale of 1:

Or the user may choose to set the map scale. An error message will appear if the scale cannot be used.

C	TTPMAPViewer X
	The scale you specified makes the map too wide for the page width.
	Your map area is only 7.00 inches wide, but a scale of 1:400000 makes the map 20.38 inches wide.
	ОК

Map Title

Map Titles can be made within the Map Layout Configuration Window.	In this example, the map is titled "Sherman
County".	

Page Orientation C Portrait	☑ Draw a North Arrow Map Title Enter a Map Title:
Paper Size Letter Width 11 Height 8.5	Sherman County Enter the Text Font Size: 24 Map Scale Parameters
 Legend Placement C Right of Map C Do not place a Legend 	✓ Fit The map to the current page size Create map using a Scale of 1:

Map Edits

Edits can be made to map elements. Click on the element to move and /or resize the image using the corner boxes.



Here, the map title has been relocated.



Print Preview



File > Print Preview

Allows the user to preview the current window for printing. Select Map Layout, Spreadsheet or Graph. If no edits are necessary, the user may choose to Print the current window.

Map Layout

File > Print Preview > Map Layout

Allows the user a view of the map before printing. If no map has been created, the following message window will open.



Spreadsheet

File > Print Preview > Spreadsheet

Allows the user to view the spreadsheet before printing. If no spreadsheet has been created, a message window will appear reminding the user to create one.

Graph

File > Print Preview> Graph

Allows the user a view of the graph before printing. If no graph has been created, a message window will open reminding the user to create one.

Printer Setup

File > Printer Setup

By selecting the setup printer option under the File Pull Down Menu, the following menu will appear:

Print Setup			? ×
Printer —			
Name:	\\NT400\Lexmark Optra plus PS2	-	Properties
Status:	Ready		
Type:	Lexmark Optra plus PS2		
Where:	LPT1:		
Comment:			
- Paper		_ Orientation	
Size:	Letter 8 1/2 x 11 in		Portrait
Source:	Auto Select	Α	C Landscape
Network.		OK	Cancel

The user can select from a list of available printers using the scroll down menu.

By clicking the Properties button, the user can access various edits to customize the print.

Paper Print Style Graphics F	eatures PostScript Fonts	0verlays Profiles W	/eb About
orm Type: Letter 81. orm Source: Auto Sele 1edia Type: Dutput Format: PostScrip	/2 x 11 in ▼ ct ▼	Duplex None Long Edge Short Edge	
Orientation Portrait Landscape	Mirror Rotate 180°	: 1 📑	
Multipage Printing I Up Image: Constraint of the second seco	Page L C Do	ayout ross own	Letter 8 1/2 x 11 in
	More		

Print

File > Print.

Prints the active window.

Select Print Map Layout, Spreadsheet or Graph.

If the settings for the printer are correct, CTPP MAPViewer will print the current window.

Return to Tables

File > Return to Tables

Returns user to the Tables Session Window.



This option is also available with the tool menu by clicking the Return to Tables button.

Edit

MAPViewer Edit Pull Down Menu

The Edit Pull Down Menu allows the user to copy the current map, speadsheet or graph into the windows clipboard. The files can then be pasted. Note: The Copy Spreadsheet and Copy Graph options will be grayed out unless they are in current use.

lit	
Copy Map (.bmp)	Ctrl+C
Copy Map (.emf)	
Copy Spreadsheet	
Copy Graph	
Paste	Ctrl+V

Copy Map Copy Spreadsheet Copy Graph

Сору Мар

Edit > Copy Map (.bmp or .emf)

Copies the current map on to the windows clipboard. The file can then be pasted to another location. The Copy Spreadsheet and Coppy Graph options will be grayed out unless they are in current use.

Copy Spreadsheet

Edit > Copy Spreadsheet

Allows the user to copy the current spreadsheet on to the windows clipboard. It can be pasted later to another location. Note: The option will be grayed out if a spreadsheet is not open.



Allows the user to copy the current graph on to the windows clipboard. It can be pasted later to another location. Note: The option will be grayed out if a graph is not open.

Selection

Selection Pull Down Menu

Selection Configure Clear Selection Zoom to Selected Select by SQL

Configure Clear Selection Zoom to Selected Select by SQL

Configure

Configure

Selection > Configure

The Configure Window allows the user to customize what selections and how the selections will be made within the map view.

Select From List	
Select From List Selection Options Selection Color:	Selection Layer 1 Choose the Layer to be used for Selection mroads.shp water.shp test8.shp place.shp county.shp
	Done

1. <u>Selection Layer</u> - The user chooses which layer or shapefile they will be using for selection.

- 2. <u>Selection Options</u> Selection Color, Selection Drawing Tools, Buffer, Display Selection
- 3. Selection Method Intersect or Within

Click <u>Done</u> when the selections are made.

Note: The Select Map Features Tool must be engaged to make the selections on the map.

Selection Options

Selection Options allow the user choices as to how selections will be made within the Map View.

- Selection Options - 2				
Selection Color:	Outi (Polyg	ine Color ons Only)		
Select by Drawing	a Box Ou	tline Size	1	
Select by Drawing a Polygon				
C Buffer Selection	Buffer Distance:	0	Miles	
Display Selection as Outline				
Display Selection (Graphic			

Changes to selection color, the type of draw tool, the buffer distance around the draw tool and how the selection is displayed can be customized.

Selection Color

The Selection Color and Outline Color can be changed by clicking the color box. The color palette will open.



The following window and corresponding map displays the new color option used for the outline color.

Selection Options	Selection Layer
Selection Color: Outline Color (Polygons Only)	Choose the Layer to be used for Selection
C Select by Drawing a Box Outline Size 1	mroads.shp
Select by Drawing a Polygon	water.shp
C Buffer Selection Buffer Distance: 0 Miles	v test8.shp
 Display Selection as Outline Display Selection Graphic 	county.shp
Selection Method	
Select shapes that intersect	
C Select shapes which are completly within	



Selection Drawing Tools

Using the Draw Selection as a Box option, the cursor is used to draw a box containing the area of the map that is to be selected.

Here, one selection has been made and another box has been drawn to indicate that a different selection is in progress. Only one selection will be displayed at a time.



The following window depicts the use of the polygon draw tool in progress.


Buffer

The Select Buffer tool allows selection of an area surrounding a straight line. Use the cursor to start the line and doubleclick when the line is complete. Use Clear Selection to undo selections made. When a new line is drawn, the previous selection will be cleared.

Display Selection

The following windows display the options of displaying the selection on the map as an outline or as a graphic.









When both options are selected, the drawing of the selection is made visible.





Selection Method

Select From List	
Select From List Selection Options 2 Selection Color: Outline Color (Polygons Only) Select by Drawing a Box Outline Size 1 Select by Drawing a Polygon Buffer Selection Buffer Distance: Miles Display Selection as Outline Display Selection Graphic Select shapes that intersect Select shapes which are completly within	Selection Layer 1 Choose the Layer to be used for Selection mroads.shp water.shp test8.shp place.shp county.shp
	Done

3 - Selection Method gives the user the choice to select objects that intersect the lines of the selection outline or select objects that are contained completely within the selection outline.

Note: For the second option, if no object is contained completely within the selection outline, no selection will be displayed.

Clear Selection

Selection > Clear Selection

Allows the user to clear any selections made within the map view.

This option is also available on the tool bar. Click the Clear Selected Features Button.



Zoom to Selected

Selection > Zoom to Selected

The Zoom to Selected Features button can also be used.



The Zoom to Previous Extent button can be used to return the map to the previous view.

This option allows the user to select a certain area of the map to view more closely.



Here, the Select Box tool was used to select this portion of the map and the Zoom to Selected Tool enlarged and centered the selected feature.



Select by SQL

Selection > Select by SQL

This option is also available by clicking the Select Features Using SQL tool.

The SQL Dialog box will be opened.

<mark>泾</mark> Query Builde	91					×
Fields 1	Oper	atore			Values 🕗	_
	▲ ○		AND	NOT	BlkGrp 410219601 BlkGrp 410219601 BlkGrp 410219601	<u> </u>
SHORTLAB		0	OR	LIKE	'BlkGrp 410499701 'BlkGrp 410499701	
F0 F1	>	>=	0	IN	BlkGrp 410499702 BlkGrp 410499702 BlkGrp 410499702	
F3 F4	<	<=	%		BikGrp 410453702 BikGrp 410499702 BikGrp 410559501	
F5 Full name for eac	- Eature			~	BlkGrp 410559501 Show Values	-
Query Syntax						
		4				
Tion 1	Canad		OK		nolu Test	
	Lancel		UK		.ppiy Test	

Sat

Select an attribute from the Fields list on the left (see #1). Only fields available within the project's database will be available.

The Field that is selected will be described underneath the Fields List (see # 3). Here, the LONGLAB field has been selected which is described as the "Full Name for Each Feature".

The user may choose a value that is available within that field in two ways. Clicking the Show Values option (see # 2) will display all the values contained within that particular database field. Note: Only fields which have less than 10,000 values will be listed. The process of pulling up all of the available values for a field can be time consuming. The other option for choosing values is to name the values that are of interest. For example, the areas that contain populations that have more than 2000 whites.

Select any boolean operators from the Operators keys to produce a query.

The query that has been created will be displayed in the Query Syntax Box (see #4)

By selecting the Test button, the query will be tested on the data before executing. The test will return the number of features in the active theme that would be selected by the query. If the number of selected features is not adequate, the query can be modified and tested again. If the selection test was acceptable then select Apply. Click OK to return to the map view. Selected features will appear in yellow.

Advanced Tools

Advanced Tools Pull Down Menu

Advanced Tools Add User Themes Remove User Theme

Customize Theme

Spreadsheet Format Cell(s) Spreadsheet Properties Spreadsheet Options

Graph Wizard

Graph Designer

Add User Themes Remove User Themes Customize Theme Spreadsheet Format Cell(s) Spreadsheet Properties Spreadsheet Options Graph Wizard Graph Designer

Add User Themes

Advanced Tools > Add User Themes

Allows the user to add a shapefile to the map legend.

The following window will open allowing the user to browse and name a new shapefile to add to the map.

Select file for new	v layer			210 ? X
Look in:	🚮 Desktop		-	
History History Desktop My Documents	My Documen My Compute My Network shelly VB_EX	ts r Places		
My Computer	File name:			Open
	Files of type:	ESRI Shapefiles (*.shp)		Cancel
My Network P		🗖 Open as read-only		

Remove User Themes

Advanced Tools > Remove User Themes

Select themes or shapefiles that have been added to the map legend for removal.

Note: Only User themes can be removed. The following window will open as a reminder.



Customize Theme

Customize Theme

Symbol properties for the MROADS.SH	P layer.				
Layer name: mroads.shp				Load	Save
	Value Dot Cha Standard Labeling Text field STF Horizontal Cer Alignment Bas Alignment MS XOffset field YOffset field	art Labels Lay	ver Propertie	s ☐ Allow dup ☑ Splined te ☑ Flip I Highway S	licates ext Rotation: 0 Shields
	Clear		(OK	Appl	y 0

This tool allows the user to create maps with customized features. Each tab addresses different aspects of the map.

Value Dot Chart Labels Layer Properties Value Options

Value

Single Color

Polygons within a theme can be colored based on three different methods. Each of these methods has a different set of parameters.



Outline and fill colors and patterns can be modified.





By changing the fill style from solid to vertical fill, the map's selected feature is altered from a solid fill of the selected color to a vertical fill of the selected color. To select a fill color, click on the Fill Color section which will bring up a palette.

Load allows the user to access previously saved legend parameters to apply to the current map view.

Value

Group by Color



Polygons are colored based on a grouping scheme, contained as an attribute within the data base. In the example above, counties are grouped based on state name.

Choose the attribute for grouping from the Field draw-down menu. (See # 3). A color scheme can be chosen from the color legend box. In this example, the color scheme that is selected is named Random Colors. Once the color scheme is selected click Display Legend (See # 1). The colors associated with that scheme are displayed and numbered in the Legend Color Preview Screen (see #2). The color and size of the outlines on the map can be altered by clicking the Edit Outline button. (See # 4). The keys at the bottom of the legend color preview screen allow the user to edit the colors that are available. (See # 5).

The options available are: Remove, Clear All, Add Existing Value, Add All and Update. Once a color is selected it can be removed. All of the colors can be cleared. Use Add existing Value to return any deleted colors to the screen. Update allows the user to alter a selected color.

Load allows the user to access previously saved legend parameters to apply to the current map view.

Value

Graduated Color



Graduated Color maps allows for data to be classified. Under the Classification menu, select an attribute to classify and select a number of classes to be made. Select a classification method. Then select Display Legend to preview the classes. Next select a start and end color by double-clicking each box and selecting a new color. Select Display Legend again to preview color scheme. Once satisfied with the classification and color scheme, select Apply to make changes to the map view. The legend color preview screen allows the user to edit the colors selected for the map. Select a color in the preview screen and then click the bottom button (The Update key). A color palette will appear allowing the user to choose a different color.

Load allows the user to access previously saved legend parameters to apply to the current map view.

Dot

Dot Density

Dot density maps can be drawn based on attributes from the data base.

Symbol properties for the CCD laye	er.			
Layer name: ccd			Load	Save
	Value Dot Chart Lab Dot Density Map Density Field: ID Each Dot = 1000 Dot Color: Dot Size:	els] Layer Propertie Layer Min: Max: Mean STD: Count Sum:	es] Draw Dot de Statistics	ensity 🔽
	Clear	ОК	Apply	Cance

To create a dot density map, first select the Draw Dot density box. Then select a field from the Density Field draw-down list. Each dot will default to a value of 1000. For example, if the density field were population, each dot would represent 1000 people. This value can be modified. Select a dot color and size. Finally select the Apply button to generate the dot density map. Layer statistics will appear on the window.

Chart

Charts can be either pie or bar charts.



Both types require the same parameters.

First select the list of desired attributes from the Fields menu, selecting Add after each choice. The optional Size Field regulates the size of the pie, based on a chosen attribute. The Normalize By field can be used to normal the values by a defined attribute. Normalizing a factor is to modify it's contribution to the total based on the magnitude of it's contribution. For example, a pie composed of each racial category can be modified by area to represent population density. When all desired parameters are set, select the Apply button.

Labels

🐂 Symbol properties for the COUNTIE	5 layer.				
Layer name: counties				Load	Save
	Value Dot Standard Standard Lab Text field Horizontal Alignment Vertical Alignment Sont XOffset field YUItset held	Chart Labels C Advance eling None Center Baseline MS Sans Serif	Layer Proper d	ties	cates tt ation: 0 > 35.77
	Clear		OK	Apply	Cancel

Label properties are set within this dialog box. Two methods are available, Standard and Advanced.

Standard

Standard options are shown above. The text field is used to select an attribute to use to label. Horizontal and vertical alignment can be set. Font selection is made here. Scale features can be selected.

Advanced

Advanced features are shown below:



Layer Properties

Symbol properties for the VTDS laye						
Layer name: vtds				Lo	ad	Save
	Value Dot C	hart Labels [Layer Prop	erties	Tupe	*
	TNBA TNBHP TNBO TNINA TNINHP TNINO TNAHP TNAO TNHPO	3 2 3 2 1 2 2 3 1 2 3 1	3 2 3 2 1 2 2 3 1 2 3 1		Long Long Long Long Long Long Long Long	-
	Zoom Leve		OK	App	oly	Cancel

Attribute properties can be viewed in the Layer Properties window.

Spreadsheet Format Cell(s)

Spreadsheet Format Cell(s)

Advanced Tools > Spreadsheet Format Cells

Number Alignment Font Border Patterns Protection Validation

Number

Number Alignmen Category:	t Font Border Patterns Protection Type: General	n Validation
Fixed Percent Fraction Scientific Date Time	General 0 0.00 #,##0 #,##0 \$#,##0_);(\$#,##0) \$#,##0_);(\$#,##0) \$#,##0_);[Red](\$#,##0) \$#,##0.00_);[Red](\$#,##0.00) 0% 0.00% 0.00% 0.00E+00 # 2/2	
Sample Description		
	ОК	Cancel

Alignment

rmat Cells		
Number Alignment Font	Border Patterns	Protection Validation
Horizontal:		
General	•	
Vertical:		
Bottom		

Font

ont: Arial	Font style:	Size:
Arial	Regular	
Arial Black Arial Narrow	Bold	11
Arial Rounded MT Bold	Bold Italic	14
Arial Unicode MS Arriba Arriba LET		16
Arrows1	_	20 -
Effects	Sample	
	AaBbY	/yZz
Color		
	Script	

Border

Line Style:	Color:			
	Aut	tomatic		
			1	

Patterns

Number Alignment Fon	Border Fatterns Protection Validatio
Automatic	
Adtoinatic	
Fill Pattern	Sample
None	

Protection

Children et				×
I	lumber Alignment Font	Border Patterns	Protection Validation	۱Į.
	Locked			
	🗌 Hidden			

Validation

Number	Alignment	Font E	Border Patter	ns Protection	Validatio
Bule:					
Traic.					
Text:					

Spreadsheet Properties
Spreadsheet Properties

Advanced Tools > Spreadsheet Properties

View Edit Selection

View

Sheet and Data		Scroll Bars
Formulas	🔽 Row Heading	Vertical:
🗖 Gridlines	Column Heading	Automatic 💌
Zero Values		Horizontal:
Fixed Rows:	Sheet Limits:	Automatic 💌
\$1	\$A\$1:\$IV\$16384	
Fixed Columns:	View Scale:	Selections:
\$A:\$B	90 🕂	Automatic 💌

Edit

 Enable Arrow Keys Enable Delete Key Enable Tab Key Enable In-Cell Editing Enter Moves Down 	 Allow Oser 10. Resize Rows, Columns, and Headings Fill a Range by Dragging Move a Range by Dragging Edit Headings Enter Formulas
--	---

Selection



Spreadsheet Options

Spreadsheet Options

Advanced Tools > Spreadsheet Options

General Calculation AutoFill Spreadsheet Color

General

General Calculation AutoFill (Application Name: Insight Data Transfer Range: Totals!\$A\$1:\$IV\$16384	Color Worksheet Tabs: Bottom Formula Bar Cell Reference in Formula Bar Type Markers Data Transfer with Headings
	OK Cancel

Calculation

tions	
General Calculation AutoFill Color	
Automatic Recalc	
Maximum Iterations: 100	
Maximum Change: 0.001	
Precision As Displayed	
OK Cance	:

Auotfill

sts:	Add
New List)	D.L.

Spreadsheet Color

Options	X
General Calculation AutoFill	Color
	Edit Default Color
	Default Palette
	OK Cancel

Graph Wizard

Right-Click on a graph to bring up the Graph Wizard option. The following gallery of graph types is available for 2D and 3D graphing. Select a chart type from the menu and select next.



Graph Designer

After right-clicking on a graph, the Graph Designer option becomes available .By clicking the graph designer tool, the following box appears: Edits can be made to the graph.

Chart Designer		×
Chart Title Footnote Legend Plot X Axis Y Axis Y Axis Second Y Axis C Axis Series F Series F Series Labels	Type Backdrop Picture Chart	
1	UK Lancel Apply Help	

Chart Designer				×
Chart Title Footnote Legend Plot T. X Axis T. Y Axis Second Y Axis T. Second Y Axis T. Series Series Series Labels	Type Backdrop P Fill O No Fill O Gradient: O Brush: Fill/From Color: Pattern/To Color:	icture Horizontal V None V	Frame Style: Color: Width: Shadow Style: Offset:	Thick Oul
	OK	Cancel	Apply	Help

Chart Designer		×
Chart Title Footnote Legend Plot T X Axis Y Axis Y Axis Second Y Axis Y Axis Second Y Axis Series F Series F Series Labels	Type Backdrop Picture Picture Size O Actual size O Best fit O Stretch to fit O Tiled O Crop fitted Image: Embed picture File:	Clear Paste Browse
	OK Cancel Apply	Help

Help

Help Contents

Allows user access to Help information.

About



MAPViewer Tools Menu

MAPViewer Tool Options

Return to Tables Button



MAPViewer View Tool Options



Create Thematic Map Tool



Display Analysis Window Tool



Identify Tool



Selection Tool Options

Return to Tables Button



This button returns the user back to the tables session window. This option is also available within the File Pull Down Menu.

MAPViewer View Tool Options





Zoom to Full Extent Button Zoom to Session Extent Button Draw Box or Click to Zoom In Tool Drag Box or Click to Zoom Out Tool Pan Map Tool Zoom to Previous Extent Button Zoom In 10% Button Zoom Out 10% Button

Zoom to Full Extent Button



This button brings the map view out to it's fullest extent.



Zoom to Session Extent Button



This button zooms the map to the extent of work for the current session.



Note: The Index Map will display the current session map within the larger extent.



Drag Box or Click to Zoom In Tool



This tool allows the user to pinpoint specific areas within the map view to zoom. Click to engage and disengage the tool.



Map View after Zoom In Tool is engaged.



Note: The Index Map will display the new map view within the full extent map.



0

The Zoom to Previous Extent Button will return the map back to the previous view.

Drag Box or Click to Zoom Out Tool





Map after zoom out tool engaged.



Note: The Index Map will display the new map view within the full extent map.





The Zoom to Previous Extent Button will return the map back to the previous view.



The Pan Map Tool, once engaged, will allow the user to click and drag the map to view different areas.



This button will return the map to its previous extent.



Clicking this button will zoom the map in 10%.



Clicking this button will zoom out the map by 10%.

Create Thematic Map Tool

Create Thematic Map Tool



Map Parameters — Start Color End	Color Fill Style: Number of Classes	Default Advanced
Field	Desc	Edit Legend
sourcelyr	Source Layer for the feature	
SHAPECODE	Unique Identifier for each feature	Labeling
COUNTY	The feature's County	COUNTY
SHORTLAB	Abbreviated name for each feature	
LONGLAB	Full name for each feature	Select a held from th
FO	Total households, Total households	Listview on the right
F1	I otal households,U-workers	Man. You can also
F2	Total households, I-worker	change colors and
F3 E4	Total households 2 workers	classes using the
F5	Total households,4-or-more-workers	Map Parameter options.
		ОК
•		Cancel

Map Parameters:

Color Fill Style Number of Classes Field Description

Default Advanced Edit Legend Labeling **Map Parameters**

Color

Making changes to the color and fill style depicts the change in the default map to the new map.

Map Parameters — Start Color End	Color Fill Style: Number of Classes	Default
	Vertical 💽 3 💌	Advanced
Field	Desc	Edit Legend
sourcelyr SHAPECODE	Source Layer for the feature Unique Identifier for each feature	Labeling
COUNTY	The feature's County	None
LONGLAB	Abbreviated name for each feature	Select a field from the
FO	Total households, Total households	Listview on the right
F2	Total households,1-worker	Map. You can also
F3 F4	Total households,2-workers	change colors and classes using the
F5	Total households,4-or-more-workers	Map Parameter options.
		ОК
•		Cancel

Default Map




Fill Style

Allows the user to change the style of the thematic map to depict

riii siyle.
Upward Diagonal 💌
Vertical 📉
Upward Diagonal
Downward Diagonal
Cross
Diagonal Cross
Semi-Transparent (Li
Semi-Transparent (M
Semi-Transparent (D 💌



Number of Classes

Field

Description

Default

Sets the map back to it's original version.

Advanced

Opens the Customize theme window to edit more map features.

Edit Legend

The Edit Legend tool allows the user the ability to change colors which depict different data on the map.

Start Color End I	Color Fill Style: Number of Classes	Default
	Vertical 💽 3 💌	Advanced
Field	Desc	Edit Legend
sourcelyr	Source Layer for the feature	Labeling
COUNTY	The feature's County	
SHORTLAB	Abbreviated name for each feature	None 🗵
LONGLAB	Full name for each feature	Select a field from th
FO	Total households, Total households	Listview on the right
F1	Total households,0-workers	to create a Thematic
F2	Total households,1-worker	Map. You can also
F3	Total households,2-workers	classes using the
F4	Total households,3-workers	Map Parameter
FD	I otal households,4-or-more-workers	options.
		OK
•		Cancel

Clicking the Edit Legend Button will bring up the following window. Each field color can be customized. Click on the field then click Color to open color palettes.

Color	From	To
	<	0
	0	3
	4	4
	>	5.
	and a second second	



Edits can also be made to the field data Break Points. Click on the field and then click Edit.

Edit Legen	d		<u>×</u>
Color	From	To	
	<	0	
	0	3	
	4	4	
	>	5.	
Color	Edit	D	one

Edit Legend	×
Enter new break point	OK
	Cancel
4	

Labeling

The Labeling Pull Down Menu allows the user the ability to select different field names to be displayed within the map selection.

eate Them	atic Map			
Map Parame Start Color	ters End Color	Fill Style:	Number of 0	Classes Default
		Solid	• 3	Advanced
Field	Des	÷C		Edit Legend
sourcelyr	Sou	irce Layer for th	e feature	
SHAPECUL)E Uni	que Identifier foi	r each feature	Labeling
COUNTY	The	e feature's Coun	ty	COUNTY
SHORTLAE	l Abb	previated name I	for each feature	J
LONGLAB	Full	name for each	Select a field from th	
FO	Tot	al households,T	Listview on the right	
F1	Tot	al households,0	-workers	to create a Themati
F2	Tot	al households,1	-worker	Map. You can also
F3	Tot	al households,2	-workers	change colors and
F4	Tot	al households,3	-workers	classes using the
F5	Tot	al households,4	-or-more-workers	options.
				ОК
•				Cancel

Labeling	
COUNTY	•
COUNTY	
SHORTLAB	
LONGLAB	-
FO	
F1	
F2	
IF3	
11-4	

Here, the County identification numbers have been selected.



Display Analysis Window Tool

Display Analysis Window Tool



The Display Analysis Button allows the user access to data to be viewed in Graph and Table format.

Map La	ayer: test8.shp	Options
Chart	Field	Desc
	sourcelyr	Source Layer for the feature
	SHAPECODE	Unique Identifier for each feature
	COUNTY	The feature's County
	SHORTLAB	Abbreviated name for each feature
	LONGLAB	Full name for each feature
	FO	Total workers,Total workers
	F1	Total workers, Management occuptaions
	F2	Total workers,Farmers and farm managers
	F3	Total workers,Business and financial oper
	F4	Total workers,Computer and mathematical
-	CE	Total work are Arabitaatura and anainaarin

The Options Pull Down Menu allows for saving and opening of table configuration.

1ap La	ayer: test9.shp		Options
Chart	Field	Desc	Save Configuration
]	sourcelyr	Sourc-	
	SHAPECODE	Uniqu	
]	COUNTY	The fe	
]	SHORTLAB	Abbre	
]	LONGLAB	Full na	
	FO	Total I	
]	F1	Total	
]	F2	Total	
]	F3	Total	Upen Configuration
]	F4	Total ho	useholds,3-workers
٦	CE	Total ha	usebelde if er mere uv

See Graph and Table for views of data that has been configured.

Display Analysis Graph

The Graph Tab within the Display Analysis Window will depict the table data in graph form.

Right-clicking on the graph will open the Graph Options.



Chart Designer Edit Chart Data Wizard Open Save As Print Copy Paste **Graph Options**

Chart Designer

After right-clicking on a graph, the Chart Designer option becomes available .By clicking the Chart Designer tool, the following box appears: Edits can be made to the graph.



Chart Designer				×
 Chart Title Footnote Legend Plot T Axis Y Axis Second Y Axis Second Y Axis Series Series Labels 	Fill No Fill Gradient: Fill/From Color: Pattern/To Color:	ficture	Frame Style: Color: Width: Shadow Style: Offset:	Thick Ou 💌 Thick Ou 💌 Tpt None 💌 Spt
	OK	Cancel	Apply	Help

Chart Designer		×
Chart Title Footnote Legend Plot ∴ X Axis ∴ Y Axis ∴ Second Y Axis ∴ Second Y Axis ∴ Series ∴ Series ↓ Series Labels	Type Backdrop Picture Picture Size O Actual size O Best fit O Stretch to fit O Tiled O Crop fitted Image: Embed picture File:	Clear Paste Browse
	OK Cancel Apply	Help

Edit Chart

Edit Chart Da	ta		
	Total]	ОК
TAPERSONS	36]	Cancel
TA1RACE			Annhu
TAWHITE			Apply
TABLACK			Help
TAAMERIND			
CHICH]	
Rows: 6		Row Labels: 1	
Columns: 1	- 10	Column Labels: 1	

Open

Navigate to a previously saved graph, and select it for opening. Graphs must be in CTTP format to open properly.

Save As

Provide a path and file name to save the current graph to.

Print Graph

Opens the following window to set up the print of the graph.

lame:	\\NT400\Lexmark Optra R plus	Properties
Status:	Ready	
Туре:	Lexmark Optra R plus	
Where:	LPT1:	
Comment	:	

Сору

Copy the current graph.

Paste

Paste the current graph.

Display Analysis Table

Identify Tool



Clicking the Identify Tool will allow the user to obtain record information relating to specific areas of the map.

The current project will be listed in the <u>Identify from Layer</u> draw down menu. Click on the draw-down arrow to display the layers that are currently available on the map legend. The user may select which layer of geography they would like to identify.

Identify Location: Found: 1 Theme: te Shape Ty Identify fr	Results -120.71:45.34 2 st8.shp pe:Polygon om Layer: test8.shp		×
Record	Field	Value	
21 9 6 3	Source Layer for the feature Unique Identifier for each f The feature's County Abbreviated name for each Full name for each feature Total workers,Total workers Total workers,Management Total workers,Farmers and Total workers,Business and Total workers,Computer an Total workers,Computer an Total workers,Architecture Total workers,Life, physical	blkgrp 411500 055 410559 BlkGrp 360 20 65 10 4 0 4	

In this case, the counties shapefile has been selected.

Identify Results					
Location: Found: 1 Theme: co Shape Ty Identify fr	-120.28:45.63 2 punty.shp pe:Polygon om Layer: county	y.shp	•		
Record	Field	Value			
26 12 12 26 2 21 9 6 3	SHAPECODE COUNTY SHORTLAB LONGLAB	41050021 021 Gilliam Gilliam County			

Selection Tool Options

Selection Tool Options



Select Map Features Clear Selected Features Select Features Using SQL Zoom to Selected Features

Select Map Features



This tool is used in conjunction with the Selection Configure Window.

Clear Selected Features



Allows the user to clear any selections made within the map view.

This feature is also available within the Selection Pull Down Menu.

Select Features Using SQL



Selecting the SQL Query Builder icon from the tool menu launches the SQL Query Builder dialog box.

🄀 Query Builder				×
Fields 1 sourcelyr SHAPECODE COUNTY SHORTLAB	Operators-	0 AND	Valu Blk Blk Blk Blk Blk Blk Blk Blk Blk Blk	es 2 Grp 410219601 Grp 410219601 Grp 410219601 Grp 410219601 Grp 410499701 Grp 410499701 Grp 410499701
FU F1 F2 F3 F4 F5 Full name for each fe	ature 3	>= 0		Carp 410499702 Carp 410499702 Carp 410499702 Carp 410499702 Carp 410559501 Carp 410559501
Clear	Cancel	ФК	Apply	Test

Select an attribute from the Fields list on the left (see #1). Only fields available within the project's database will be available.

The user may choose a value that is available within that field in two ways. Clicking the Show Values option (see # 2) will display all the values contained within that particular database field. Note: Only fields which have less than 10,000 values will be listed. The process of pulling up all of the available values for a field can be time consuming. The other option for choosing values is to name the values that are of interest. For example, the areas that contain populations that have more than 2000 whites.

Select any boolean operators from the Operators keys to produce a query.

The query that has been created will be displayed in the Query Syntax Box (see #4)

By selecting the Test button, the query will be tested on the data before executing. The test will return the number of features in the active theme that would be selected by the query. If the number of selected features is not adequate, the query can be modified and tested again. If the selection test was acceptable then select Apply. Click OK to return to the map view. Selected features will appear in yellow.

Zoom to Selected Features



This feature is also available within the Selection Pull Down Menu.

This tool allows the user to select a certain area of the map to view more closely. Note: A selection must be made in order to engage this tool.



Here, the Select Box tool was used to select this portion of the map and the Zoom to Selected Tool enlarged and centered the selected feature.



A Guide to the User Interface

Type topic text here.

Close Session

Type topic text here.
Copy Session

Create Session

Display Field

Display Chart

Edit Session

Exit

Next Label

Open Existing Session

Open Session

Open Session Table

Remove Session

Search

Sort

The File Pull Down Menu

The Open Session Table Window

The Open Session Table window contains the tables of data selected in the Session Tables Window.

Open Session	Table	×
Session:	test4	
Categories:	(1 found)	
Part 1: At Resid	lence: All Persons lence: All Workers	All
	None	
Files:	(4 found)	
Name	Title	Search
Table1-047	Total number of persons (1)	Clear
Table1-048	Percentage of people sampled (1)	
Table1-052	Age (12) by Minority status (3)	Summary
Title		
		Cancel
		Help

Each group of tables can be accessed simply by highlighting the group of interest. The previous table displays the first group of tables selected from "At Residence" folder: <u>All Persons</u>. The following window displays the second group.

Open Session	Table		×
Session:	test8		
Categories:	(1 found)		
Part 1: At Resid	dence: All Hou dence: Housin	seholds a Units	All
			None
Files:		(3 found)	
Name		Title	Search
Table1-083 Table1-084		Total number of housing units (1) Number of housing units sampled (1) Parcent of housing units sampled (1)	Clear
		r ercent or housing units sampled (1)	Summary
Title			OK
			Cancel
			Help

Highlighting a specific table (1) will display the table information in the Title (2) section of the window.

Open Sessior	ı Table	×
Session:	test8	
Categories:	(1 found)	
Part 1: At Res	idence: All Households	All
Part 1: At Residence: Housing Units		
Files:	(1 found)	
Name	Title	Search
Table1-009	Occupation (25) by Means of transportation to wor 1	r <mark>k (11)</mark> Clear
		Summary
Decupation (OK	
	Cancel	
	Help	

Once, the table is selected, click OK to view and work with the table data. (See The Table Data Window).

The Table Data Window

Once the Geography and the particular Field has been selected, the data pertinent to that certain area is available in table format.

CTPP 2000 Browser [test8 File Edit View Dimension II	3] - Occupation (2: tem Window Help	5) by Means of tra	nsportation to wo	rk (11)	
	PATION 🔞 🔄]→ 🥔 🖨		1 🏈	
Ccupation (25) by Mear	ns of transportatio	on to work (11)	4		
MEANS11 : Total worker	s		e anna da tha anna a' sealtan anna an anna an		
OCCUPATION D	Total workers	Management	Farmers and	Business and	Cor
GEO_ID		occuptaions	farm managers	financial oper	mat
BlkGrp 410219601.001	420	25	35	15	
BlkGrp 410219601.002	205	10	20	4	1
BlkGrp 410219601.003	300	15	35	4	
BlkGrp 410499701.002	650	20	35	30	
BlkGrp 410499701.005	580	30	6 40	15	
BlkGrp 410499702.001	310	20	65	15	
BlkGrp 410499702.002	255	15	45	4	1
BlkGrp 410499702.003	240	15	30	0	1
BlkGrp 410499702.004	250	15	4	4	
BlkGrp 410559501.001	180	10	15	0	1
BlkGrp 410559501.002	270	20	35	0	
BlkGrp 410559501.003	360	20	65	10	
▲					
For Help, press F1		25/25	Tota	l workers	2900

Pull Down Menus
Accessing Information Tools
Field Data Pull Down
Identify, Print and Display Tools
Table Data

Tile