

Applications for 2012 County Business Patterns Data pre- related with TIGER/Line Data in a Geodatabase Format

Geography Division
US Census Bureau
Fall 2014

Overview

- County Business Patterns (CBP) Data
- Available Geodatabases (GDBs)
- GDB Files (County)
- GDB Location & Download Information
- Working with Related 2012 CBP Data in ArcMap 10.1 (County GDB)

County Business Patterns (CBP) Data

- Annual series that provides national and subnational economic data by industry
- Categorized according to the North American Industry Classification System (NAICS)

North American Industry Classification System (NAICS)

- System used to classify business establishments
- Purpose is to collect, analyze, and publish statistical data related to the U.S. business economy

North American Industry Classification System (NAICS)

- Standard used by Federal statistical agencies
- Learn about the NAICS and NAICS Codes on our website at:
<http://www.census.gov/eos/www/naics/index.html>.

Available Geodatabases (GDBs)

- Geodatabases are available to download for the following levels of geography:
 - County
 - State
 - Metropolitan and Micropolitan Statistical Area
 - Puerto Rico & Island Areas
 - County Equivalents for Puerto Rico & Island Areas

GDB Files (County)

- Each GDB contains the following files:
 - TIGER/Line County Data (Feature Class)
 - 2012 CBP Data (Table)
 - 2012 NAICS Codes (Table)
 - 2012 CBP and TIGER/Line Data (Relationship Class)
 - 2012 CBP and NAICS Data (Relationship Class)

GDB Location & Download Information

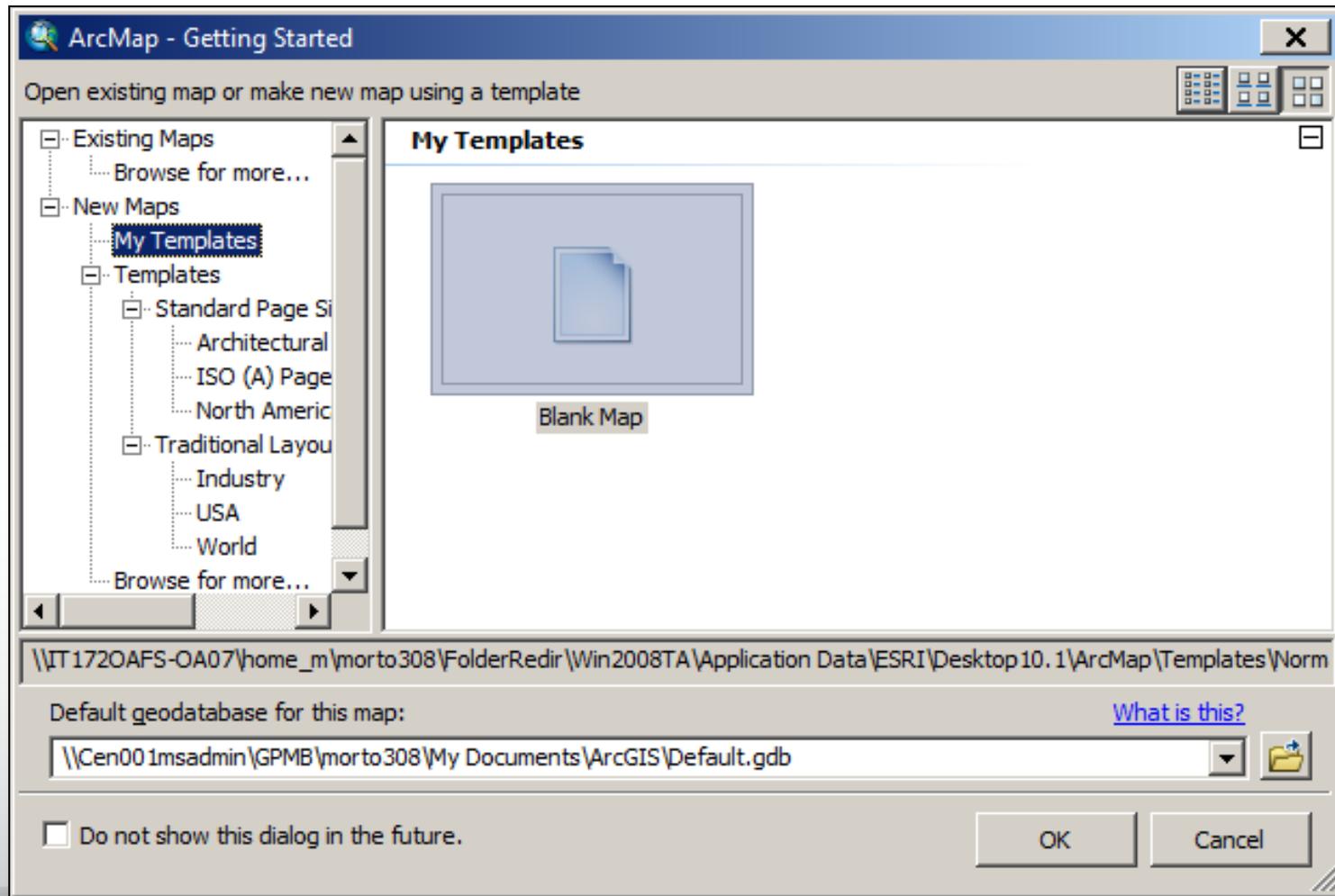
- Click on the following link to access *2012 CBP Data Pre-related with TIGER/Line Data* in a GDB Format:
<http://www.census.gov/geo/maps-data/data/tiger-data.html>
- Expand the '2012' Menu under the *County Business Patterns — Geodatabase Format* heading
- Click on 'County' under *Download the Geodatabases*
- Or, click on the following link to access these files from the ftp site:
http://www2.census.gov/geo/tiger/TIGER_DP/2012CBP/

GDB Location & Download Information

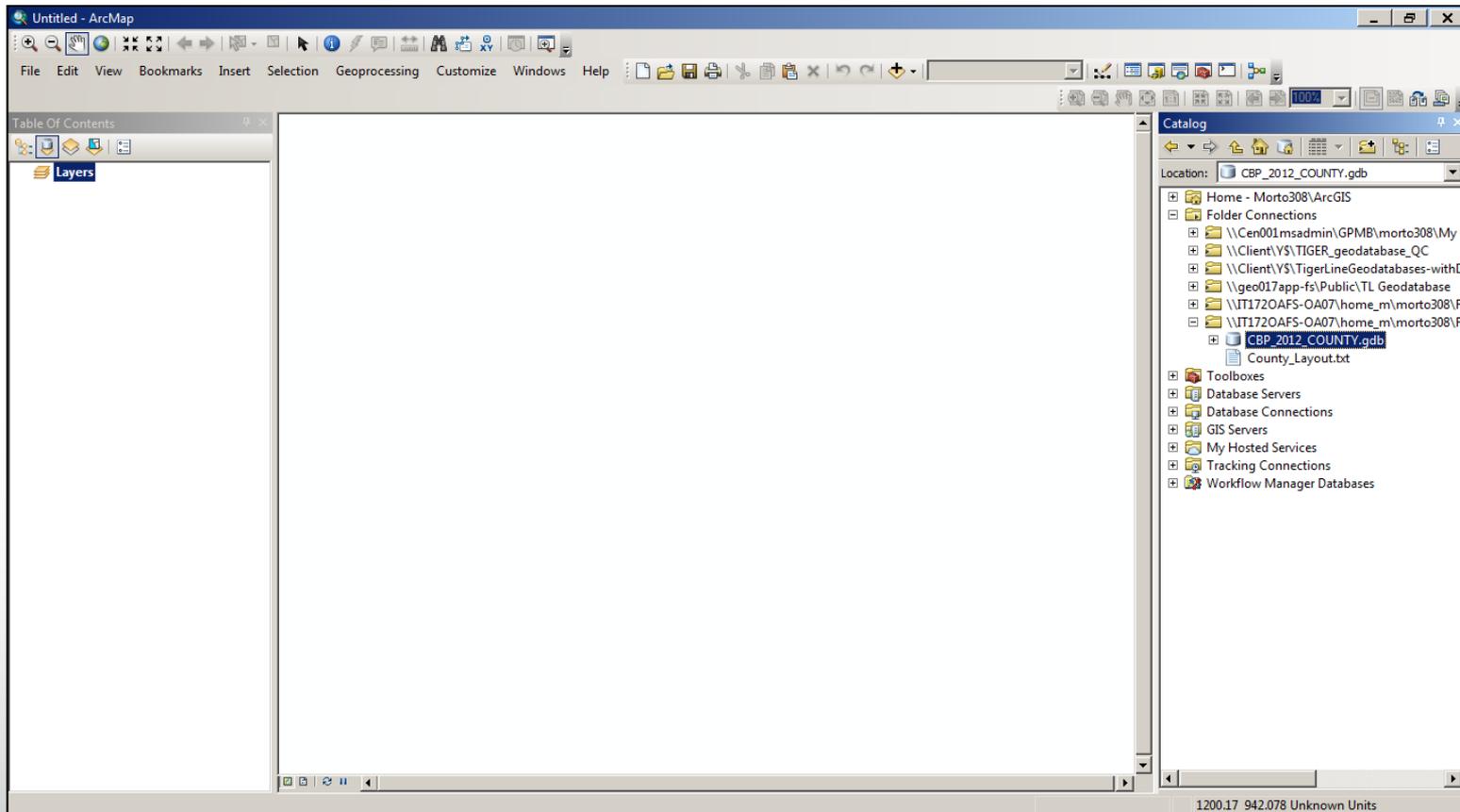
- Download the County GDB.zip file to your local drive
- Extract the GDB.zip file to your local drive (The following files are extracted from the ZIP file)
 - *CBP_2012_COUNTY.gdb*
 - *County_Layout.txt*

Working with Related 2012 CBP Data in ArcMap 10.1 (Exercises use the County GDB)

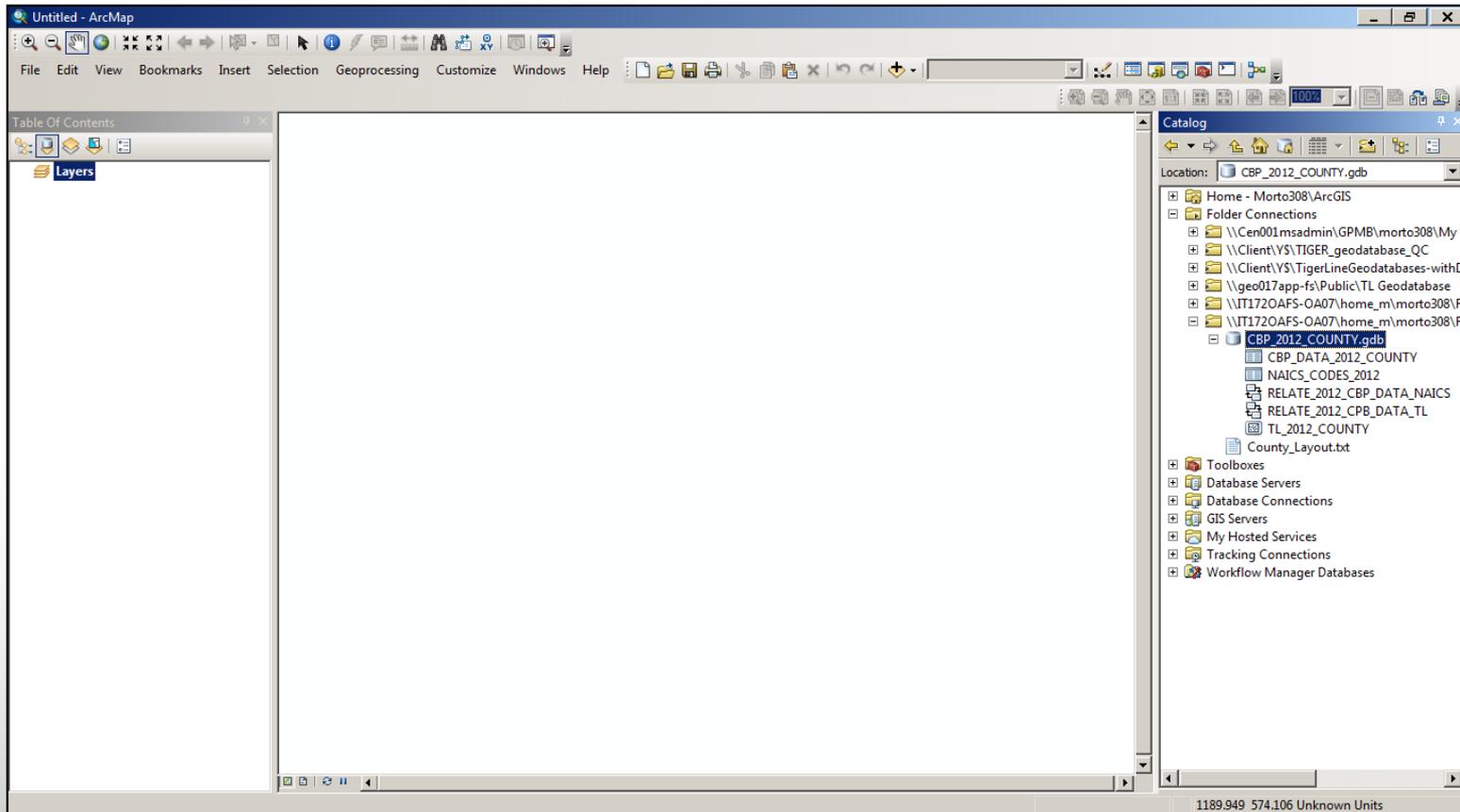
Start a new session in ArcMap



Open the *Catalog* window and drill down to the extracted GDB

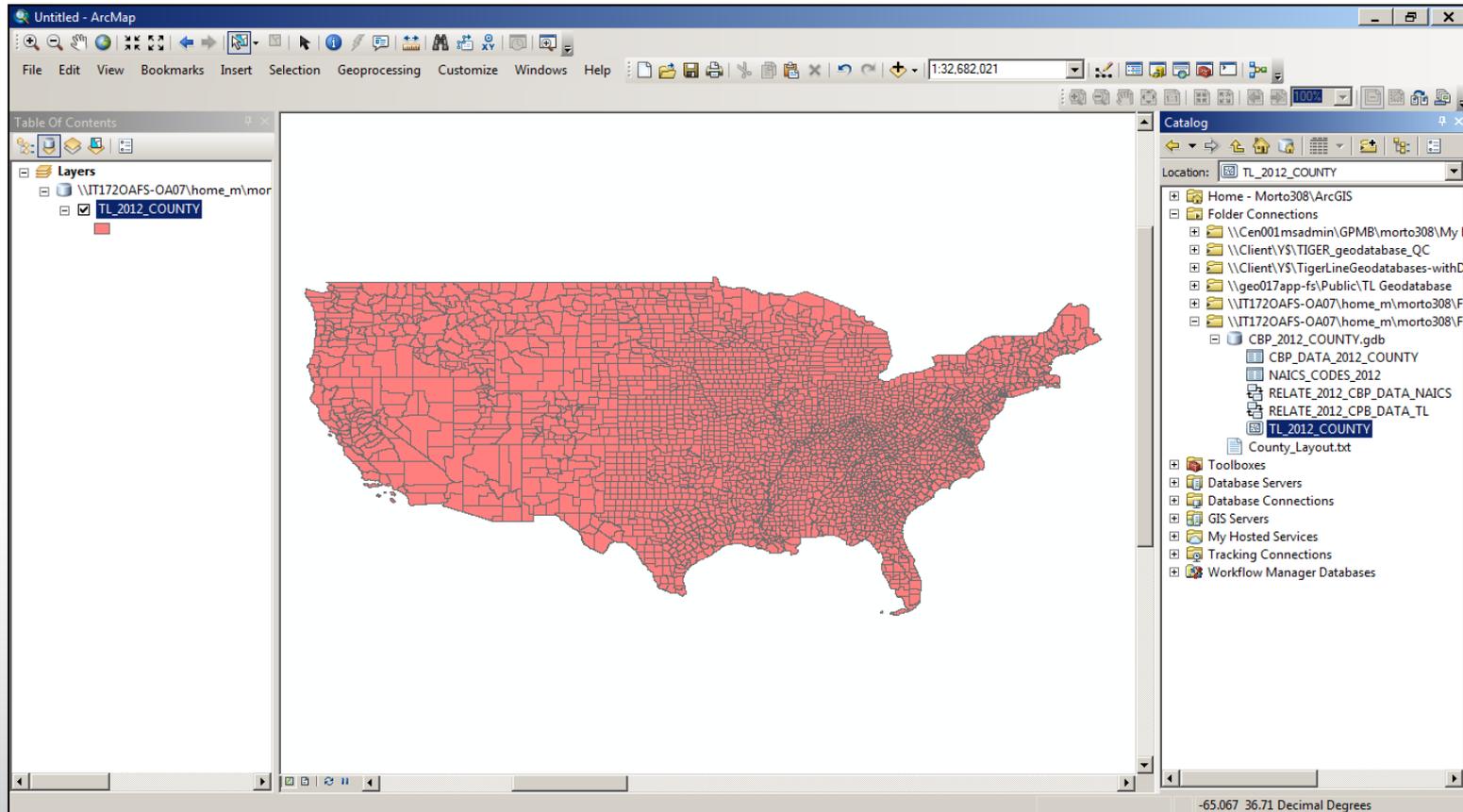


Expand the GDB folder to access files inside the GDB

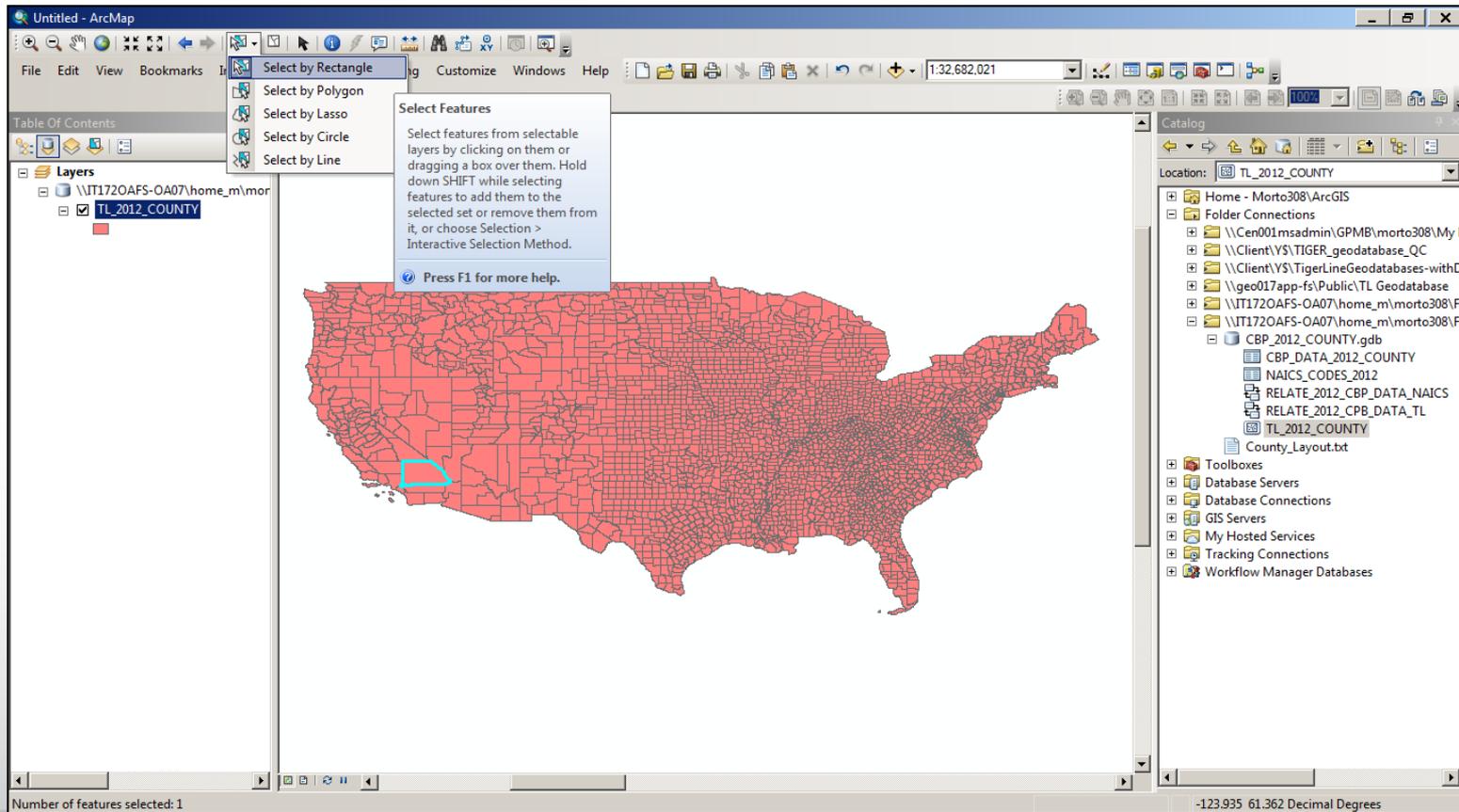


Exercise 1: Select, view and export all 2012 CBP – NAICS Data for San Bernardino County, CA (06071)

Step 1: Add the 'TL_2012_COUNTY' feature class to the Data View



Step 2: Click on the *Select Features* button on the *Tools* toolbar and select 'San Bernardino County, CA' in the *Data View*



Step 3: Right-click on the *TL_2012_COUNTY* layer and select 'Open Attribute Table'

The screenshot shows the ArcMap interface with the 'Open Attribute Table' context menu open over the 'TL_2012_COUNTY' layer. The attribute table is displayed, showing the following data:

OBJECTID	Shape	STATEFP	COUNTYFP	COUNTYNS	GEOID	NAME	NAMESAD	LSAD	CLASSFP	MTFCC	CSAFP	CBSA
1	Polygon	15	001	00365280	15001	Hawaii	Hawaii County	06	H1	G4020		2590
2	Polygon	05	027	00063761	05027	Columbia	Columbia County	06	H1	G4020		3162
3	Polygon	38	011	01035619	38011	Bowman	Bowman County	06	H1	G4020		
4	Polygon	36	031	00974114	36031	Essex	Essex County	06	H1	G4020		
5	Polygon	35	007	00929117	35007	Coffax	Coffax County	06	H1	G4020		
6	Polygon	30	089	01719578	30089	Sanders	Sanders County	06	H1	G4020		
7	Polygon	30	031	01720053	30031	Gallatin	Gallatin County	06	H1	G4020		1458
8	Polygon	35	037	00929110	35037	Quay	Quay County	06	H1	G4020		
9	Polygon	38	037	01035300	38037	Grant	Grant County	06	H1	G4020		
10	Polygon	36	111	00974153	36111	Ulster	Ulster County	06	H1	G4020	408	2874
11	Polygon	38	079	01034228	38079	Rolette	Rolette County	06	H1	G4020		
12	Polygon	46	039	01265781	46039	Deuel	Deuel County	06	H1	G4020		
13	Polygon	41	007	01135846	41007	Clatsop	Clatsop County	06	H1	G4020		1182
14	Polygon	46	043	01266978	46043	Douglas	Douglas County	06	H1	G4020		
15	Polygon	49	025	01448026	49025	Kane	Kane County	06	H1	G4020		
16	Polygon	46	115	01266987	46115	Spink	Spink County	06	H1	G4020		
17	Polygon	53	021	01531822	53021	Franklin	Franklin County	06	H1	G4020		2842
18	Polygon	49	009	01448019	49009	Daggett	Daggett County	06	H1	G4020		
19	Polygon	46	137	01266993	46137	Ziebach	Ziebach County	06	H1	G4020		
20	Polygon	53	061	01529222	53061	Snohomish	Snohomish County	06	H1	G4020	500	4286
21	Polygon	53	051	01529157	53051	Pend Oreille	Pend Oreille County	06	H1	G4020		
22	Polygon	05	087	00069165	05087	Madison	Madison County	06	H1	G4020		2222
23	Polygon	16	057	00395613	16057	Latah	Latah County	06	H1	G4020		3414

Step 4: Click on the 'Show selected records' button to view the record for *San Bernardino County, CA*

The screenshot shows the ArcMap interface with a map of California counties. The 'Layers' panel on the left shows the 'TL_2012_COUNTY' layer selected. The 'Table' window is open, displaying the following data:

OBJECTID*	Shape*	STATEFP	COUNTYFP	COUNTYNS	GEOID*	NAME	NAMLSAD	LSAD	CLASSFP	MTFCC	CSAFP	CBSAF
3234	Polygon	06	071	00277300	06071	San Bernardino	San Bernardino County	06	H1	G4020	348	40140

At the bottom of the table window, it indicates '(1 out of 3143 Selected)' and a 'Show selected records' button is visible.

Step 5: Click the *Related Tables* button and select the 'TL to County Data' relationship

The screenshot shows the ArcMap interface. On the left, the 'Table of Contents' pane shows a layer named 'TL_2012_COUNTY' selected. The main map area displays a map of California counties in red, with a cyan rectangle highlighting a specific county in the southern part of the state. A 'Table' window is open, displaying the following data:

OBJECTID *	Shape *	STATEFP	COUNTYFP	COUNTYNS	GEOID *	NAME	NAMLSAD	LSAD	CLASSFP	MTFCC	CSAFP	CBSAF
3234	Polygon	06				San Bernardino	San Bernardino County	06	H1	G4020	348	40140

A tooltip is visible over the selected row, stating: "Displays the relationship classes that the current table participates in." The bottom of the table window shows navigation controls and the text "(1 out of 3143 Selected)".

All 2012 CBP – NAICS data is displayed for San Bernardino County, CA 06071 (1,833 records out of 2,131,529 records are selected)

Table

CBP_DATA_2012_COUNTY

OBJECTID *	naics *	empflag	emp_nf	emp	qp1_nf	qp1	ap_nf	ap	est	n1_4	n5_9	n10_19	n20_49	n50_99	n100_249	n250_499
151731	----	<Null>	G	52068	G	47913	G	198319	32156	16322	6204	4504	3286	1044	600	
151732	11----	<Null>	H	194	G	1037	G	4333	29	21	4	2	1	1	0	
151733	113///	B	S	0	G	543	G	2343	7	4	2	0	0	1	0	
151734	1131//	B	D	0	D	0	D	0	2	1	0	0	0	1	0	
151735	11311/	B	D	0	D	0	D	0	2	1	0	0	0	1	0	
151736	113110	B	D	0	D	0	D	0	2	1	0	0	0	1	0	
151737	1133//	A	D	0	D	0	D	0	5	3	2	0	0	0	0	
151738	11331/	A	D	0	D	0	D	0	5	3	2	0	0	0	0	
151739	113310	A	D	0	D	0	D	0	5	3	2	0	0	0	0	
151740	114///	A	D	0	D	0	D	0	1	1	0	0	0	0	0	
151741	1141//	A	D	0	D	0	D	0	1	1	0	0	0	0	0	
151742	11411/	A	D	0	D	0	D	0	1	1	0	0	0	0	0	
151743	114112	A	D	0	D	0	D	0	1	1	0	0	0	0	0	
151744	115///	<Null>	H	96	G	494	G	1966	21	16	2	2	1	0	0	
151745	1151//	<Null>	G	15	S	0	H	337	6	6	0	0	0	0	0	
151746	11511/	<Null>	G	15	S	0	H	337	6	6	0	0	0	0	0	
151747	115112	A	D	0	D	0	D	0	2	2	0	0	0	0	0	
151748	115114	A	D	0	D	0	D	0	1	1	0	0	0	0	0	
151749	115115	A	D	0	D	0	D	0	3	3	0	0	0	0	0	
151750	1152//	<Null>	G	73	G	363	G	1363	13	9	1	2	1	0	0	
151751	11521/	<Null>	G	73	G	363	G	1363	13	9	1	2	1	0	0	
151752	115210	<Null>	G	73	G	363	G	1363	13	9	1	2	1	0	0	
151753	1153//	A	D	0	D	0	D	0	2	1	1	0	0	0	0	
151754	11531/	A	D	0	D	0	D	0	2	1	1	0	0	0	0	
151755	115310	A	D	0	D	0	D	0	2	1	1	0	0	0	0	
151756	21----	<Null>	G	1029	H	21789	H	79779	31	9	7	5	5	3	1	
151757	212///	<Null>	G	973	H	21041	H	76691	24	6	6	3	4	3	1	
151758	2122//	E	D	0	D	0	D	0	2	0	1	0	0	0	0	

(1833 out of 2131529 Selected)

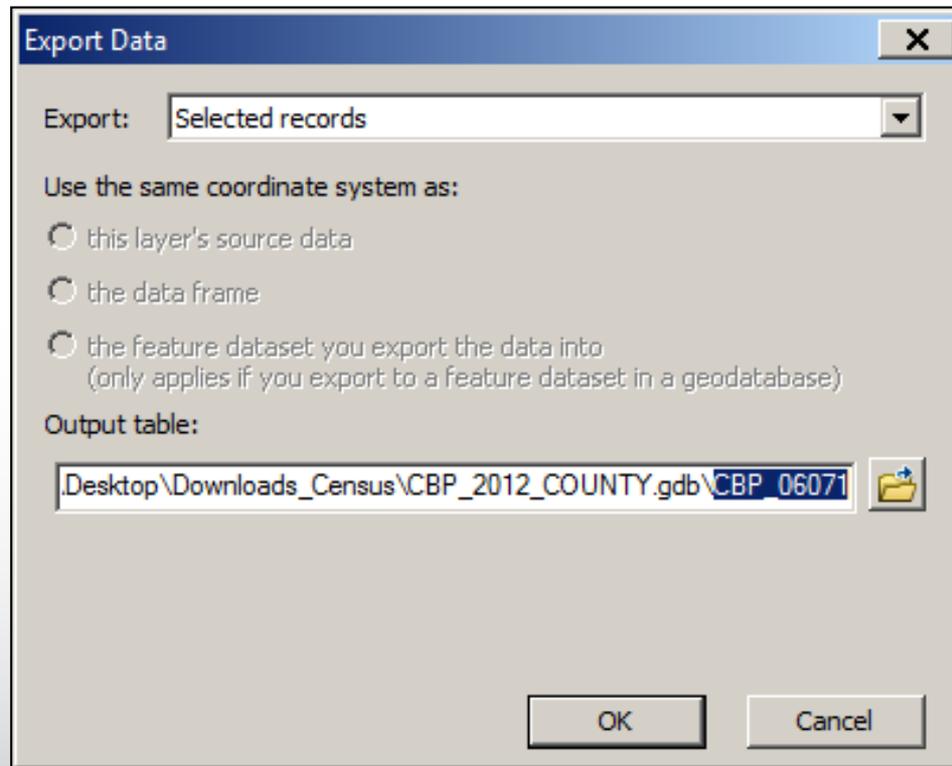
TL_2012_COUNTY CBP_DATA_2012_COUNTY

Step 6: Click on the *Table Options* button and select 'Export'

The screenshot shows the ArcMap interface with the 'Table' window open. The 'Table Options' menu is visible, and the 'Export...' option is highlighted. A sub-menu is open for 'Export', showing the option 'Export' with a description: 'Exports the table to a new table.' The table data is visible in the background, showing columns like emp_nf, emp, qp1_nf, qp1, ap_nf, ap, est, n1_4, n5_9, n10_19, n20_49, n50_99, n100_249, and n250_499.

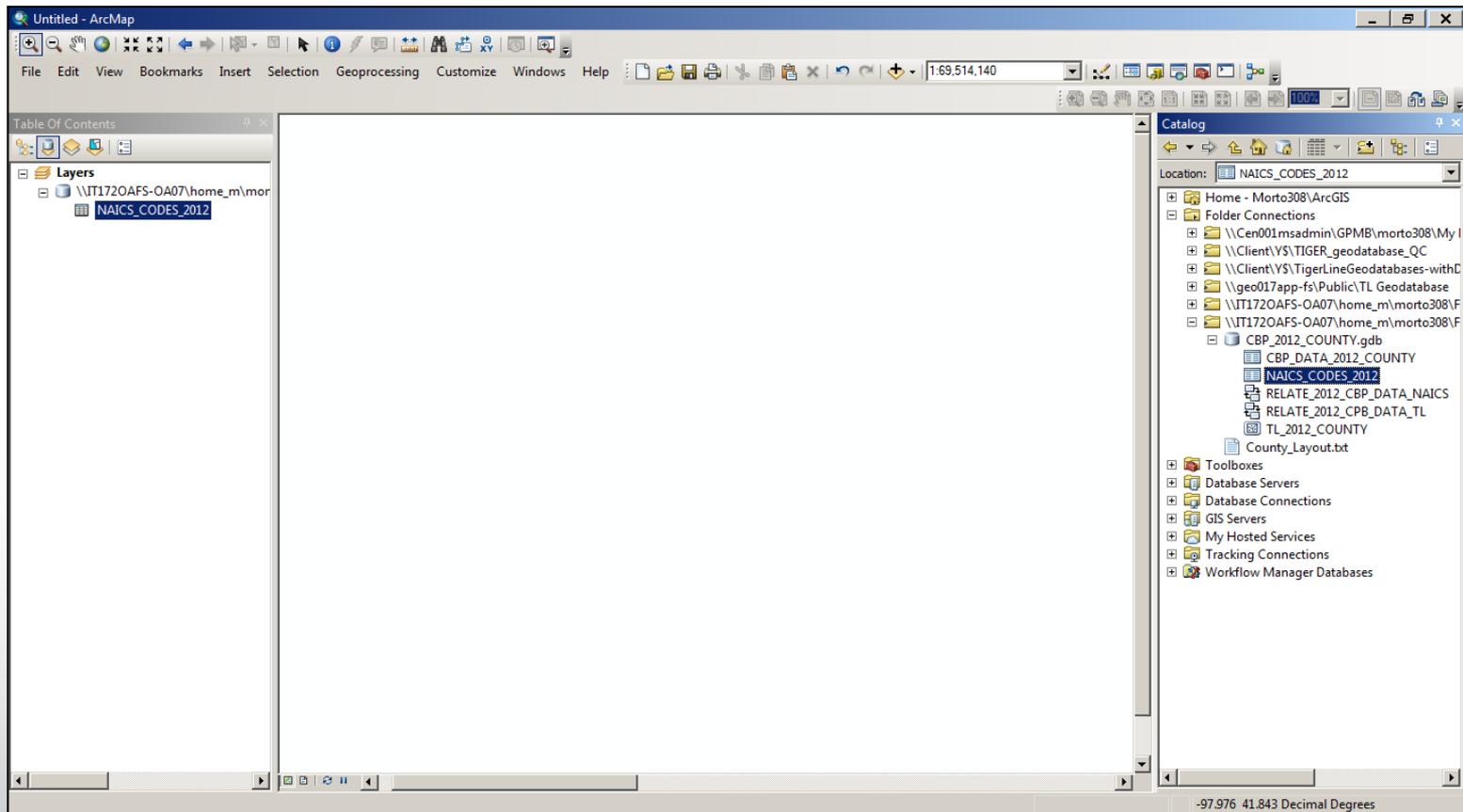
emp_nf	emp	qp1_nf	qp1	ap_nf	ap	est	n1_4	n5_9	n10_19	n20_49	n50_99	n100_249	n250_499
52068	G	47913	G	198319	32156	16322	6204	4504	3286	1044	600		
194	G	1037	G	4333	29	21	4	2	1	1	0		
0	G	543	G	2343	7	4	2	0	0	1	0		
0	D	0	D	0	2	1	0	0	0	1	0		
0	D	0	D	0	2	1	0	0	0	1	0		
0	D	0	D	0	2	1	0	0	0	1	0		
0	D	0	D	0	5	3	2	0	0	0	0		
0	D	0	D	0	5	3	2	0	0	0	0		
0	D	0	D	0	1	1	0	0	0	0	0		
0	D	0	D	0	1	1	0	0	0	0	0		
0	D	0	D	0	1	1	0	0	0	0	0		
0	D	0	D	0	1	1	0	0	0	0	0		
96	G	494	G	1966	21	16	2	2	1	0	0		
15	S	0	H	337	6	6	0	0	0	0	0		
15	S	0	H	337	6	6	0	0	0	0	0		
0	D	0	D	0	2	2	0	0	0	0	0		
0	D	0	D	0	1	1	0	0	0	0	0		
0	D	0	D	0	3	3	0	0	0	0	0		
73	G	363	G	1363	13	9	1	2	1	0	0		
73	G	363	G	1363	13	9	1	2	1	0	0		
73	G	363	G	1363	13	9	1	2	1	0	0		
0	D	0	D	0	2	1	1	0	0	0	0		
0	D	0	D	0	2	1	1	0	0	0	0		
0	D	0	D	0	2	1	1	0	0	0	0		
0	D	0	D	0	2	1	1	0	0	0	0		
1029	H	21789	H	79779	31	9	7	5	5	3	1		
973	H	21041	H	76691	24	6	6	3	4	3	1		
0	D	0	D	0	2	0	1	0	0	0	0		
0	D	0	D	0	2	0	1	0	0	0	0		

Step 7: Export the selected records and save the export as your preferred file type with the name 'CBP_06071'

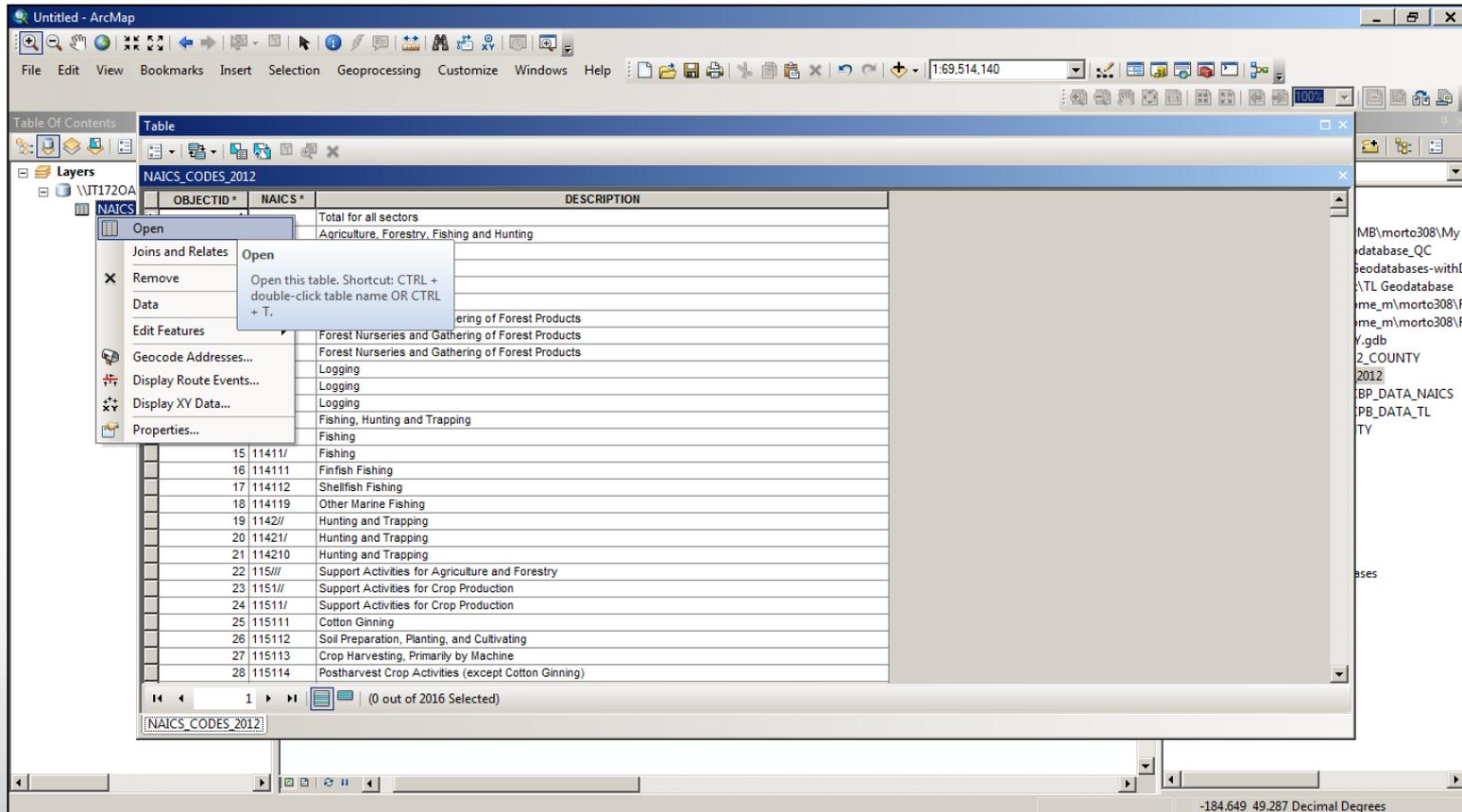


Exercise 2: Create a thematic map showing the number of Drilling Oil and Gas Well establishments (NAICS Code 213111) in each county in the continental United States

Step 1: Add the 'NAICS_CODES_2012' table to the Data View



Step 2: Right-click on the *NAICS* table and select 'Open'



Step 3: Select the record for NAICS Code '213111: Drilling Oil and Gas Wells'

The screenshot shows the ArcMap interface with a table titled 'NAICS_CODES_2012'. The table has three columns: OBJECTID, NAICS, and DESCRIPTION. The row with OBJECTID 80 and NAICS 213111 is highlighted in blue. The description for this row is 'Drilling Oil and Gas Wells'. The table also includes other NAICS codes such as 212399, 213112, 213113, 213114, 213115, 221111, 221112, 221113, 221114, 221115, 221116, 221117, 221118, 221121, 221122, 221210, and 221311.

OBJECTID*	NAICS*	DESCRIPTION
76	212399	All Other Nonmetallic Mineral Mining
77	213111	Support Activities for Mining
78	213111	Support Activities for Mining
79	213111	Support Activities for Mining
80	213111	Drilling Oil and Gas Wells
81	213112	Support Activities for Oil and Gas Operations
82	213113	Support Activities for Coal Mining
83	213114	Support Activities for Metal Mining
84	213115	Support Activities for Nonmetallic Minerals (except Fuels) Mining
85	22----	Utilities
86	221111	Utilities
87	221111	Electric Power Generation, Transmission and Distribution
88	221111	Electric Power Generation
89	221111	Hydroelectric Power Generation
90	221112	Fossil Fuel Electric Power Generation
91	221113	Nuclear Electric Power Generation
92	221114	Solar Electric Power Generation
93	221115	Wind Electric Power Generation
94	221116	Geothermal Electric Power Generation
95	221117	Biomass Electric Power Generation
96	221118	Other Electric Power Generation
97	221121	Electric Power Transmission, Control, and Distribution
98	221121	Electric Bulk Power Transmission and Control
99	221122	Electric Power Distribution
100	221210	Natural Gas Distribution
101	221211	Natural Gas Distribution
102	221210	Natural Gas Distribution
103	221311	Water, Sewage and Other Systems

Step 4: Click on the *Related Tables* button and select the 'NAICS to COUNTY' relationship

The screenshot shows the ArcMap interface with a table titled "RELATE_2012_CBP_DATA_NAICS : CBP_DATA_2012_COUNTY". The table has three columns: OBJECTID, NAICS, and DESCRIPTION. The row for NAICS code 80, "Drilling Oil and Gas Wells", is highlighted in blue. A tooltip is displayed over the table, stating: "Displays the relationship classes that the current table participates in." The interface also shows a Table of Contents on the left and a Layers panel with "NAICS" selected. The bottom status bar indicates the current location as -180.845 -8.109 Decimal Degrees.

OBJECTID	NAICS	DESCRIPTION
76	212399	All Other Nonmetallic Mineral Mining
77	213111	Support Activities for Mining
78	213111	Support Activities for Mining
79	213111	Support Activities for Mining
80	213111	Drilling Oil and Gas Wells
81	213112	Support Activities for Oil and Gas Operations
82	213113	Support Activities for Coal Mining
83	213114	Support Activities for Metal Mining
84	213115	Support Activities for Nonmetallic Minerals (except Fuels) Mining
85	22----	Utilities
86	221111	Utilities
87	221111	Electric Power Generation, Transmission and Distribution
88	221111	Electric Power Generation
89	221111	Hydroelectric Power Generation
90	221112	Fossil Fuel Electric Power Generation
91	221113	Nuclear Electric Power Generation
92	221114	Solar Electric Power Generation
93	221115	Wind Electric Power Generation
94	221116	Geothermal Electric Power Generation
95	221117	Biomass Electric Power Generation
96	221118	Other Electric Power Generation
97	221121	Electric Power Transmission, Control, and Distribution
98	221121	Electric Bulk Power Transmission and Control
99	221122	Electric Power Distribution
100	221211	Natural Gas Distribution
101	221211	Natural Gas Distribution
102	221210	Natural Gas Distribution
103	221311	Water, Sewage and Other Systems

A list of all counties in the nation with *Drilling Oil and Gas Well* establishments appears.

Table of Contents

Layers

- VT1720A
 - NAICS
 - CBP_D

Table

CBP_DATA_2012_COUNTY

OBJECTID*	naics*	empflag	emp_nf	emp	qp1_nf	qp1	ap_nf	ap	est	n1_4	n5_9	n10_19	n20_49	n50_99	n100_249	n250_499	n500_999	n1000	n1000_1
11585	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
17571	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
19668	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
21911	213111	B	D	0	D	0	D	0	1	0	0	0	1	0	0	0	0	0	0
39055	213111	A	D	0	D	0	D	0	2	1	0	1	0	0	0	0	0	0	0
42162	213111	A	D	0	D	0	D	0	2	1	0	1	0	0	0	0	0	0	0
45384	213111	C	D	0	D	0	D	0	6	1	1	1	1	2	0	0	0	0	0
46082	213111	F	D	0	D	0	D	0	7	3	0	0	0	1	2	1	0	0	0
48366	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
50757	213111	A	D	0	D	0	D	0	1	0	0	1	0	0	0	0	0	0	0
53017	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
57511	213111	C	D	0	D	0	D	0	2	0	0	0	1	1	0	0	0	0	0
57653	213111	A	D	0	D	0	D	0	2	1	1	0	0	0	0	0	0	0	0
58173	213111	A	D	0	D	0	D	0	2	2	0	0	0	0	0	0	0	0	0
62350	213111	B	D	0	D	0	D	0	6	3	1	1	1	0	0	0	0	0	0
64189	213111	B	D	0	D	0	D	0	1	0	0	0	1	0	0	0	0	0	0
67856	213111	A	D	0	D	0	D	0	2	1	1	0	0	0	0	0	0	0	0
71117	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
72192	213111	A	D	0	D	0	D	0	1	0	0	1	0	0	0	0	0	0	0
74432	213111	C	D	0	D	0	D	0	1	0	0	0	0	0	1	0	0	0	0
78977	213111	A	D	0	D	0	D	0	4	3	1	0	0	0	0	0	0	0	0
79786	213111	C	D	0	D	0	D	0	4	1	1	0	1	0	1	0	0	0	0
82013	213111	A	D	0	D	0	D	0	2	2	0	0	0	0	0	0	0	0	0
85374	213111	F	D	0	D	0	D	0	3	0	0	0	0	1	0	2	0	0	0
87234	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
95589	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
97531	213111	A	D	0	D	0	D	0	1	0	1	0	0	0	0	0	0	0	0

(746 out of 2131529 Selected)

NAICS_CODES_2012 [CBP_DATA_2012_COUNTY]

-125.103 -9.102 Decimal Degrees

Step 5: Click on the *Table Options* button and select 'Export'

The screenshot shows the ArcMap interface with a data table open. The 'Table Options' menu is open, and the 'Export...' option is selected. A tooltip for 'Export' is visible, stating 'Exports the table to a new table.' The table contains data for various NAICS codes and their corresponding counts across different years and categories.

emp_nf	emp	qp1_nf	qp1	ap_nf	ap	est	n1_4	n5_9	n10_19	n20_49	n50_99	n100_249	n250_499	n500_999	n1000	n1000_1
0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	6	1	1	1	1	1	2	0	0	0	0	0
0	0	0	0	0	7	3	0	0	0	1	2	1	0	0	0	0
0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0
0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	6	3	1	1	1	1	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	4	3	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	4	1	1	0	0	1	0	1	0	0	0	0
0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	3	0	0	0	0	0	1	0	2	0	0	0
0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0

Step 6: Export the selected records and save the export as a GDB table with the name 'NAICS_213111'

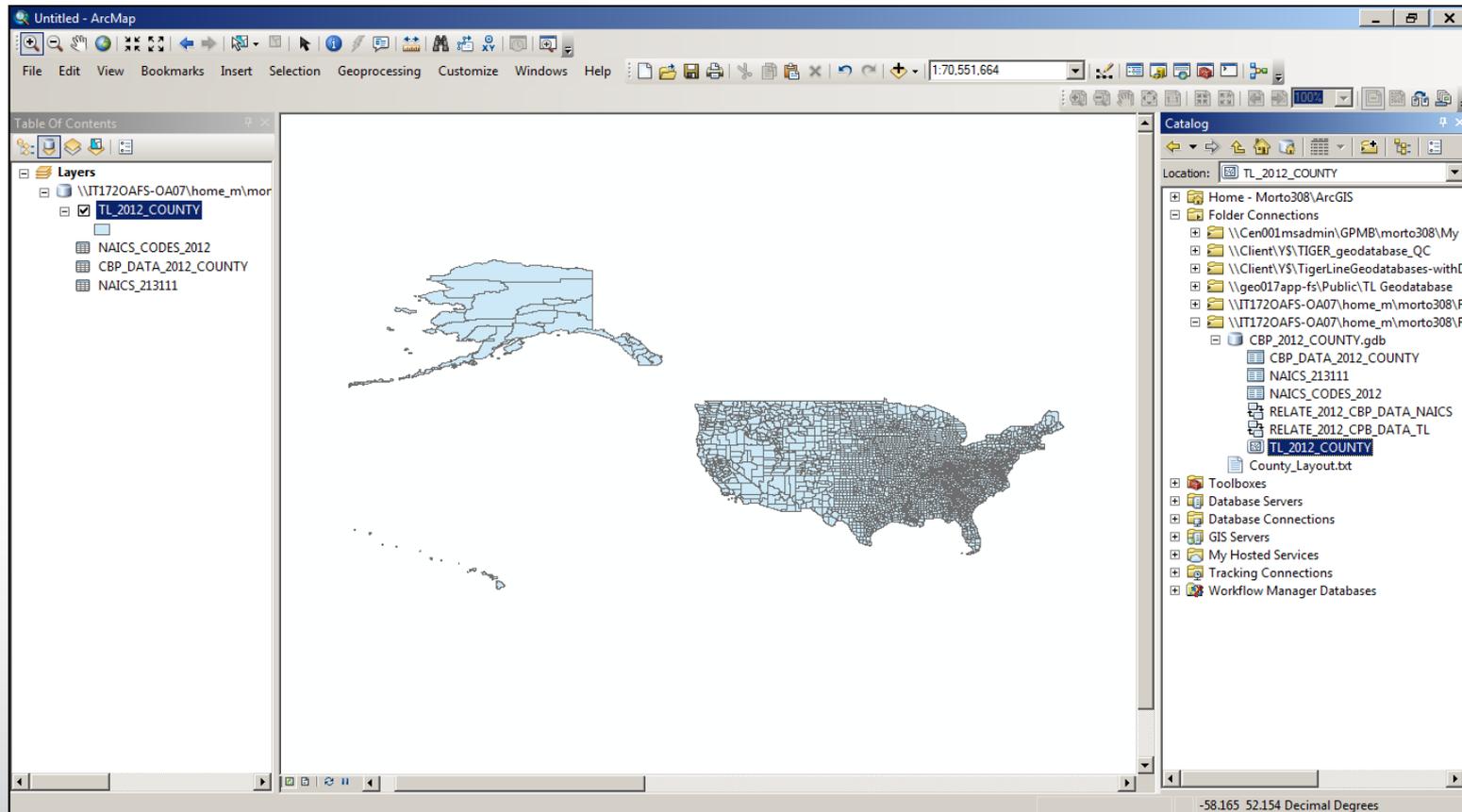
The screenshot shows the ArcMap interface with a table of data. The 'Export Data' dialog box is open, showing the following settings:

- Export:** Selected records
- Use the same coordinate system as:**
 - this layer's source data
 - the data frame
 - the feature dataset you export the data into (only applies if you export to a feature dataset in a geodatabase)
- Output table:** k:\top\Downloads_Census\CBP_2012_COUNTY.gdb\NAICS_213111

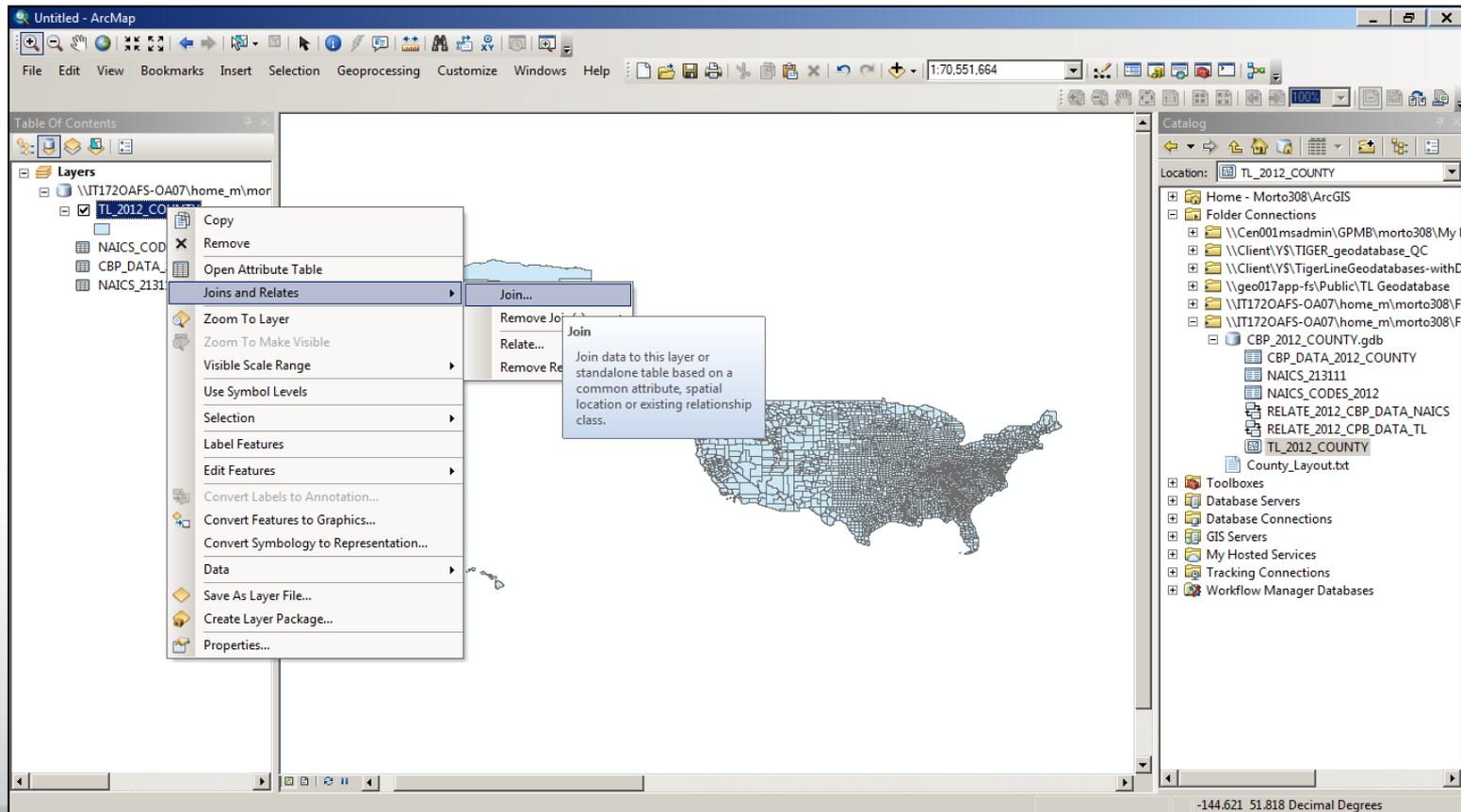
The table data is as follows:

OBJECTID	naics	emplflag	emp_nf	emp	qp1_nf	qp1	ap_nf	ap	est	n1_4	n5_9	n10_19	n20_49	n50_99	n100_249	n250_499	n500_999	n1000	n1000_1
11585	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
17571	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
19668	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
21911	213111	B	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
39055	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
42162	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
45384	213111	C	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
46082	213111	F	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
48366	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
50757	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
53017	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
57511	213111	C	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
57653	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
58173	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
62350	213111	B	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
64189	213111	B	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
67856	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
71117	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
72192	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
74432	213111	C	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
78977	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
79786	213111	C	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
82013	213111	A	D	0	D	0	D	0	2	2	0	0	0	0	0	0	0	0	0
85374	213111	F	D	0	D	0	D	0	3	0	0	0	0	1	0	2	0	0	0
87234	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
95589	213111	A	D	0	D	0	D	0	1	1	0	0	0	0	0	0	0	0	0
97531	213111	A	D	0	D	0	D	0	1	0	1	0	0	0	0	0	0	0	0

Step 7: Add the 'TL_2012_COUNTY' feature class to the Data View



Step 8: Right-click on the *TL_2012_COUNTY* layer and select 'Join' from the *Join and Relates* option



**Step 9: Join the
NAICS_213111 table to
the TL_2012_COUNTY
table, using the 'GEOID'
field in both tables and
click 'OK' to join the data**

Join Data

Join lets you append additional data to this layer's attribute table so you can, for example, symbolize the layer's features using this data.

What do you want to join to this layer?

Join attributes from a table

1. Choose the field in this layer that the join will be based on:
GEOID
2. Choose the table to join to this layer, or load the table from disk:
NAICS_213111
 Show the attribute tables of layers in this list
3. Choose the field in the table to base the join on:
GEOID

Join Options

Keep all records
All records in the target table are shown in the resulting table. Unmatched records will contain null values for all fields being appended into the target table from the join table.

Keep only matching records
If a record in the target table doesn't have a match in the join table, that record is removed from the resulting target table.

Validate Join

[About joining data](#) OK Cancel

Step 10: Right-click on the *TL_2012_COUNTY* layer and select 'Open Attribute Table'

The screenshot shows the ArcMap interface with the 'Open Attribute Table' context menu open over the 'TL_2012_COUNTY' layer. The menu options include: Copy, Remove, Open Attribute Table (highlighted), Joins and Relates, Zoom To Layer, Zoom To Make Visible, Visible Scale Range, Use Symbol Levels, Selection, Label Features, Edit Features, Convert Labels to Annotation..., Convert Features to Graphics..., Convert Symbology to Representation..., Data, Save As Layer File..., Create Layer Package..., and Properties... The background data table is as follows:

OBJECTID*	Shape*	STATEFP	COUNTYFP	COUNTYNS	GEOID*	NAME	NAMELSAD	LSAD	CLASSFP	MTFCC	CSAFP	CBSAFP	METDIVFP	FUNCSTAT	ALAND
00365280	15001			Hawaii	Hawaii County			06	H1	G4020		25900		A	1043360361
00063761	05027			Columbia	Columbia County			06	H1	G4020		31620		A	198407093
01035619	38011			Bowman	Bowman County			06	H1	G4020				A	300906380
00974114	36031			Essex	Essex County			06	H1	G4020				A	464711905
00929117	35007			Colfax	Colfax County			06	H1	G4020				A	973355062
01719578	30089			Sanders	Sanders County			06	H1	G4020				A	714975642
				Gallatin	Gallatin County			06	H1	G4020		14580		A	674099355
				Quay	Quay County			06	H1	G4020				A	744440244
				Grant	Grant County			06	H1	G4020				A	429717991
				Ulster	Ulster County			06	H1	G4020	408	28740		A	291175531
				Rolette	Rolette County			06	H1	G4020				A	233895424
				Deuel	Deuel County			06	H1	G4020				A	161274983
01135846	41007			Clatsop	Clatsop County			06	H1	G4020		11820		A	214729872
01266978	46043			Douglas	Douglas County			06	H1	G4020				A	111836183
01448026	49025			Kane	Kane County			06	H1	G4020				A	1033459125
01266987	46115			Spink	Spink County			06	H1	G4020				A	389514811
01531822	53021			Franklin	Franklin County			06	H1	G4020		28420		A	321692386
01448019	49009			Daggett	Daggett County			06	H1	G4020				A	180508503
01266993	46137			Ziebach	Ziebach County			06	H1	G4020				A	507996641
01529222	53061			Snohomish	Snohomish County			06	H1	G4020	500	42660	42644	A	540595857
01529157	53051			Pend Oreille	Pend Oreille County			06	H1	G4020				A	362600822
00069165	05087			Madison	Madison County			06	H1	G4020		22220		A	216071172
00395613	16057			Latah	Latah County			06	H1	G4020		34140		A	278685514
01531930	53065			Stevens	Stevens County			06	H1	G4020				A	641728665
01266998	46117			Stanley	Stanley County			06	H1	G4020		38180		A	374106222
01531926	53037			Kittitas	Kittitas County			06	H1	G4020		21260		A	595070992
00399757	16087			Washington	Washington County			06	H1	G4020				A	376308179

Step 11: Scroll to the right, right-click on the NAICS field name and select 'Sort Descending'

The screenshot shows the ArcMap interface with a data table titled 'TL_2012_COUNTY'. The table has columns for geographic coordinates, area, and various NAICS codes. A context menu is open over the 'naics' column header, with 'Sort Descending' selected. The menu options include: Sort Ascending, Sort Descending, Advanced Sorting..., Summarize..., Statistics..., Field Calculator..., Calculate Geometry..., Turn Field Off, Freeze/Unfreeze Column, Delete Field, and Properties... The 'Sort Descending' option is highlighted, and a tooltip indicates: 'Sort the values in this field in descending order (Z - A) (9 - 1)'. The table contains 3143 rows of data, with the first few rows visible in the screenshot.

INTPTLAT	INTPTLON	Shape_Length	Shape_Area	OBJECTID*	naics	emplflag	emp_nf	emp	qpt_nf	qpt	ap_nf	ap	est	n1_4	n5_9	n10_19	n20_49	n50	
+19.5977643	-155.5024434	4.597357	1.134342	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+46.1101438	-103.5059433	2.772886	0.351765	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+44.1089711	-073.7775726	3.591841	0.558	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+36.6129625	-104.6401256	4.519193	0.983034	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+47.7564686	-115.1802247	6.790437	0.865472	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+45.5355586	-111.1734431	5.572873	0.785359	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+35.1070184	-103.5480713	4.38688	0.737852	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+46.3578289	-101.6390494	4.621164	0.504359	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+41.9472156	-074.2654583	2.93861	0.326126	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+48.7682715	-099.8404634	2.288964	0.297635	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+44.7562899	-096.6902393	1.736582	0.187398	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+46.0245092	-123.7050140	2.667528	0.326292	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+43.3915064	-098.3584331	1.648196	0.12477	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+37.2750830	-111.8153524	5.996832	1.081207	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+44.9310341	-098.3396437	2.699811	0.445776	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+46.5345799	-118.9069436	3.407331	0.384309	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+40.8900990	-109.5057855	2.896221	0.199425	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+44.9816662	-101.6692245	3.825879	0.582275	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+48.0549130	-121.7664118	4.468306	0.686147	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+48.5438247	-117.2321913	3.096705	0.44948	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+36.0125452	-093.7240531	2.134755	0.216736	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+46.8189202	-116.7309737	2.576862	0.328764	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+44.4155468	-100.7491628	3.796248	0.443978	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+47.1244443	-120.6767136	4.976852	0.716361	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+44.4482128	-116.7978299	3.165339	0.431486	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+43.6775056	-101.6263228	3.578103	0.541097	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
+42.7884009	-120.3897896	7.323631	2.381961	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>

All of the counties with data for NAICS code 213111 appear at the top of the list.

Table of Contents: Table

Layers: \\\1720A\TL_2012_COUNTY

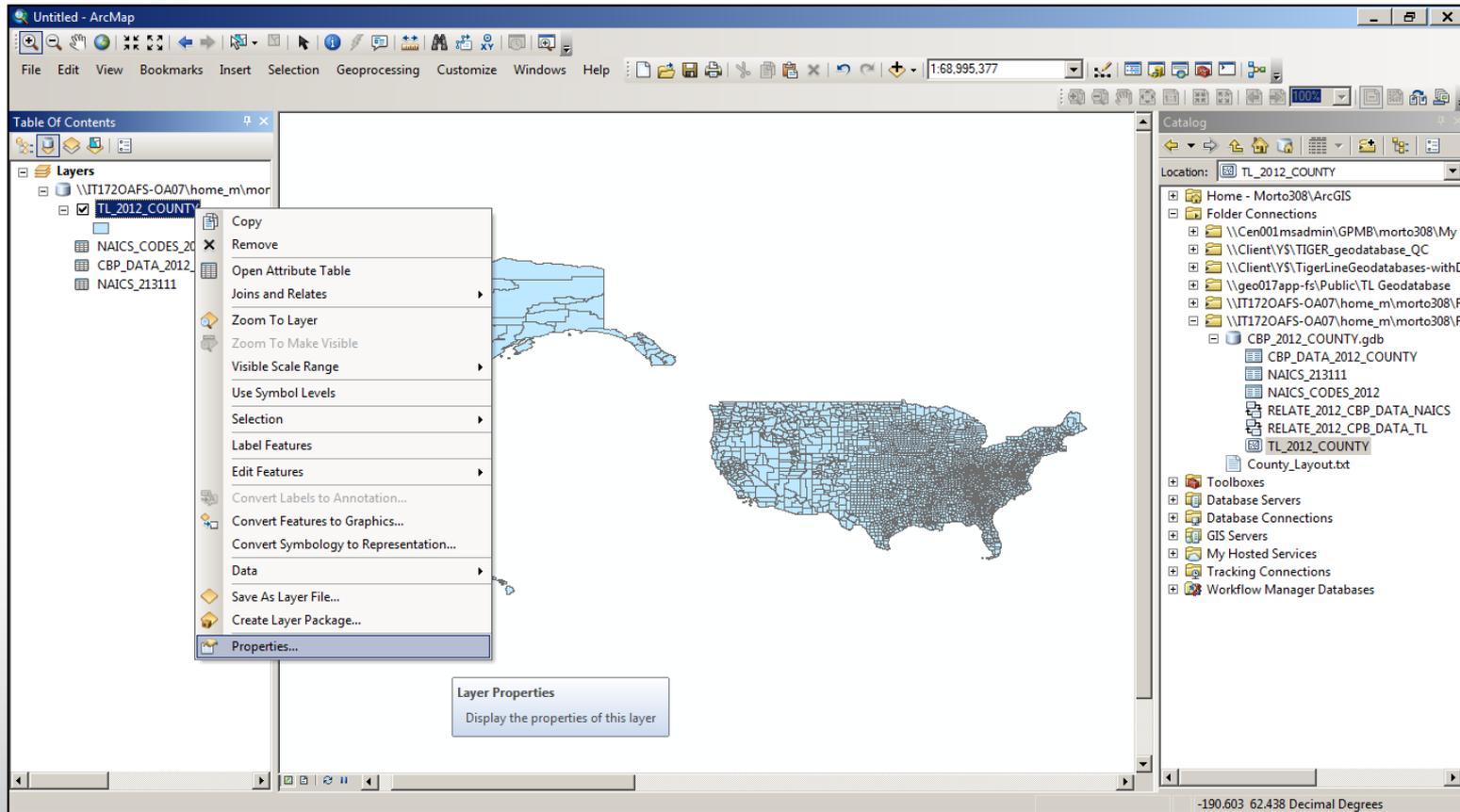
INPTLAT	INPTLON	Shape_Length	Shape_Area	OBJECTID*	naics	empflag	emp_nf	emp	qp1_nf	qp1	ap_nf	ap	est	n1_4	n5_9	n10_19	n20_49	n50_99
+33.2230377	-093.2328433	1.884484	0.192066	22	213111	C	D	0	D	0	D	0	4	1	1	0	1	
+48.3906475	-117.8548968	5.301319	0.799194	700	213111	A	D	0	D	0	D	0	1	1	0	0	0	
+47.3545477	-102.6123659	3.616494	0.642019	395	213111	A	D	0	D	0	D	0	1	0	1	0	0	
+46.3337663	-116.7609025	3.036369	0.259091	122	213111	A	D	0	D	0	D	0	1	1	0	0	0	
+47.7855132	-104.5633871	4.280047	0.653943	338	213111	<Null>	G	29	G	522	G	2819	6	4	0	2	0	
+42.8569373	-113.6400095	2.337143	0.217625	121	213111	A	D	0	D	0	D	0	1	1	0	0	0	
+40.7765574	-073.8701736	0.58249	0.00928	377	213111	B	D	0	D	0	D	0	1	0	0	0	0	
+35.3690916	-095.6717644	2.15248	0.182982	460	213111	A	D	0	D	0	D	0	1	1	0	0	0	
+36.3849010	-097.2363345	2.196246	0.193169	462	213111	A	D	0	D	0	D	0	1	0	0	1	0	
+40.8720603	-110.9684862	5.110194	0.520649	682	213111	B	D	0	D	0	D	0	1	0	0	0	1	
+46.4565581	-120.7401446	5.872246	1.30762	702	213111	A	D	0	D	0	D	0	1	1	0	0	0	
+48.4732563	-118.5335894	4.182142	0.710998	697	213111	A	D	0	D	0	D	0	1	1	0	0	0	
+42.2391688	-078.8624212	2.862703	0.373649	374	213111	A	D	0	D	0	D	0	2	1	0	1	0	
+48.6319595	-110.1063210	4.56576	0.921346	334	213111	A	D	0	D	0	D	0	1	0	0	1	0	
+32.7956865	-103.4132707	4.654275	1.095577	369	213111	<Null>	H	961	G	15617	G	65129	23	4	2	5	7	
+48.7864534	-102.5200874	2.742694	0.357843	393	213111	A	D	0	D	0	D	0	1	0	0	1	0	
+35.1679202	-098.3810447	2.46185	0.330643	437	213111	A	D	0	D	0	D	0	1	0	1	0	0	
+41.7342254	-111.7445805	3.059999	0.328733	674	213111	<Null>	G	1	S	0	G	71	3	3	0	0	0	
+36.8003603	-099.6628089	2.161556	0.272211	450	213111	A	D	0	D	0	D	0	2	2	0	0	0	
+35.9141514	-097.4507644	1.989069	0.193664	458	213111	A	D	0	D	0	D	0	1	1	0	0	0	
+48.7056706	-112.9905023	5.499798	0.960991	333	213111	A	D	0	D	0	D	0	2	1	1	0	0	
+36.1203177	-095.9418132	2.259479	0.152201	477	213111	<Null>	H	57	H	540	G	2188	16	11	4	1	0	
+36.7882544	-097.7881508	2.10892	0.262439	449	213111	B	D	0	D	0	D	0	1	0	0	0	1	
+44.4938816	-123.4246641	2.626662	0.198853	482	213111	A	D	0	D	0	D	0	1	1	0	0	0	
+45.1604934	-122.1951274	4.089038	0.558277	483	213111	A	D	0	D	0	D	0	1	1	0	0	0	
+35.5662882	-092.0599742	1.609016	0.152367	21	213111	A	D	0	D	0	D	0	4	3	1	0	0	
+35.4552966	-093.0315353	2.110716	0.213614	28	213111	E	D	0	D	0	D	0	1	0	0	0	0	

(0 out of 3143 Selected)

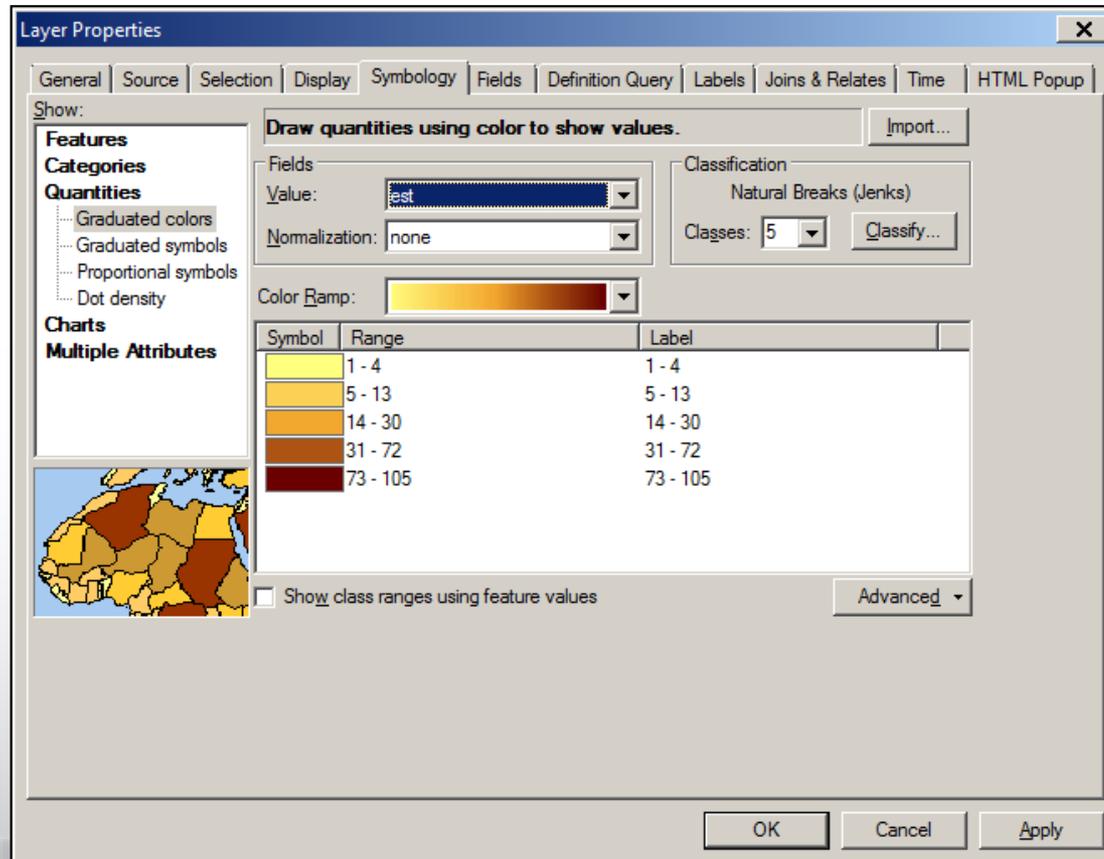
TL_2012_COUNTY

-90.95 -3.723 Decimal Degrees

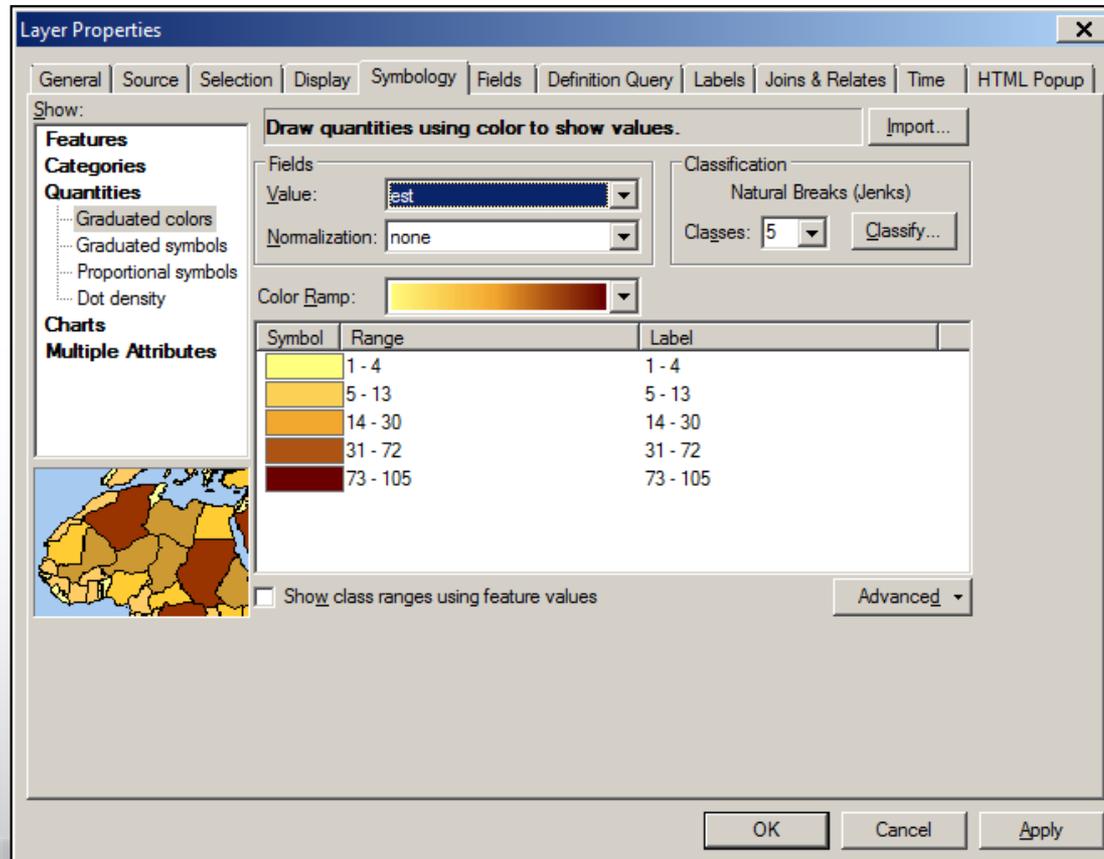
Step 12: Right-click on the *TL_2012_COUNTY* layer and select 'Properties'



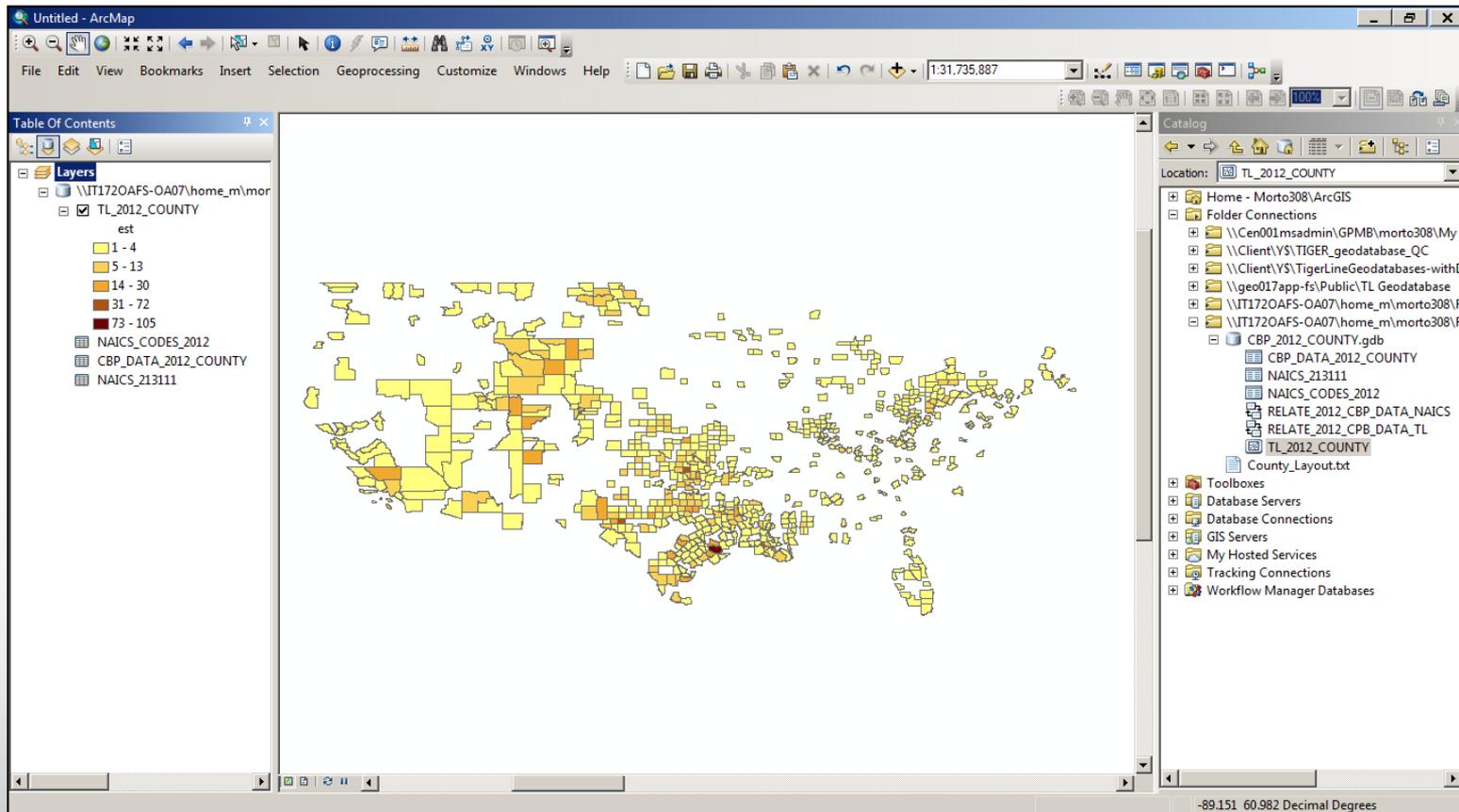
Step 13: Click on 'Quantities', then 'Graduated colors' under the *Symbology* tab



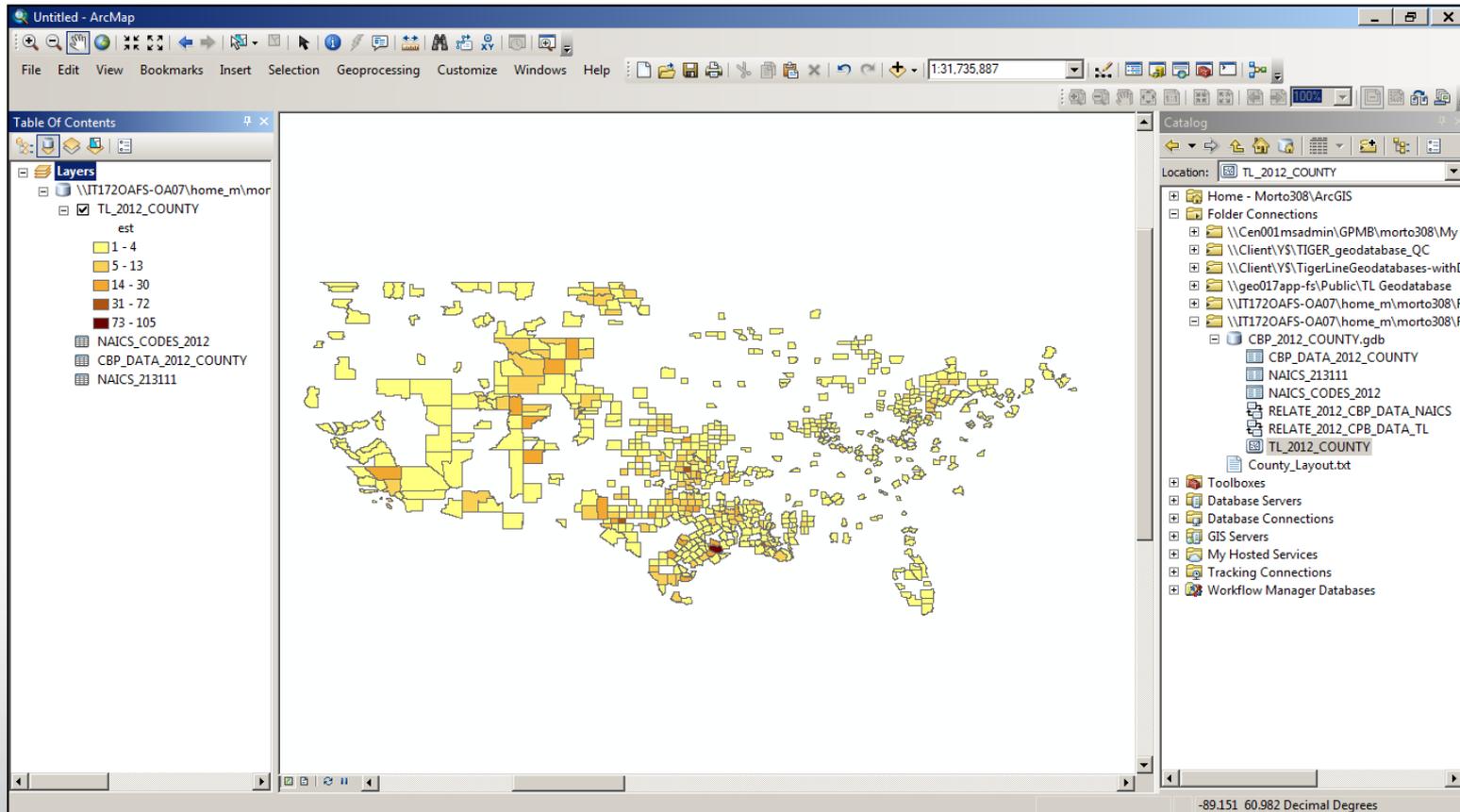
Step 14: Select 'est' for the *Field Value* to classify the data and click 'OK' to close *Layer Properties*



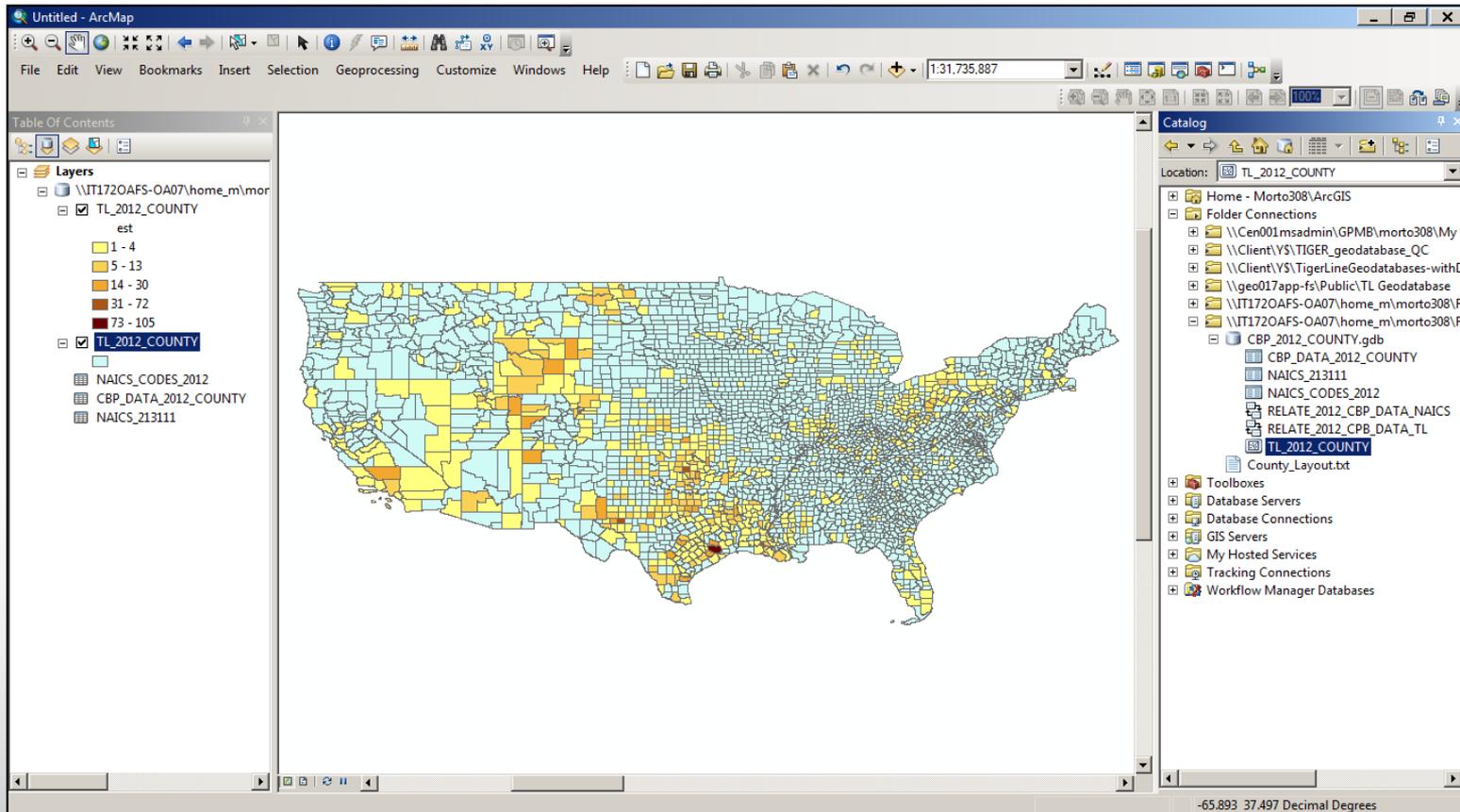
The resulting data view shows 5 classifications of counties in the nation with *Drilling Oil and Gas Well* establishments.



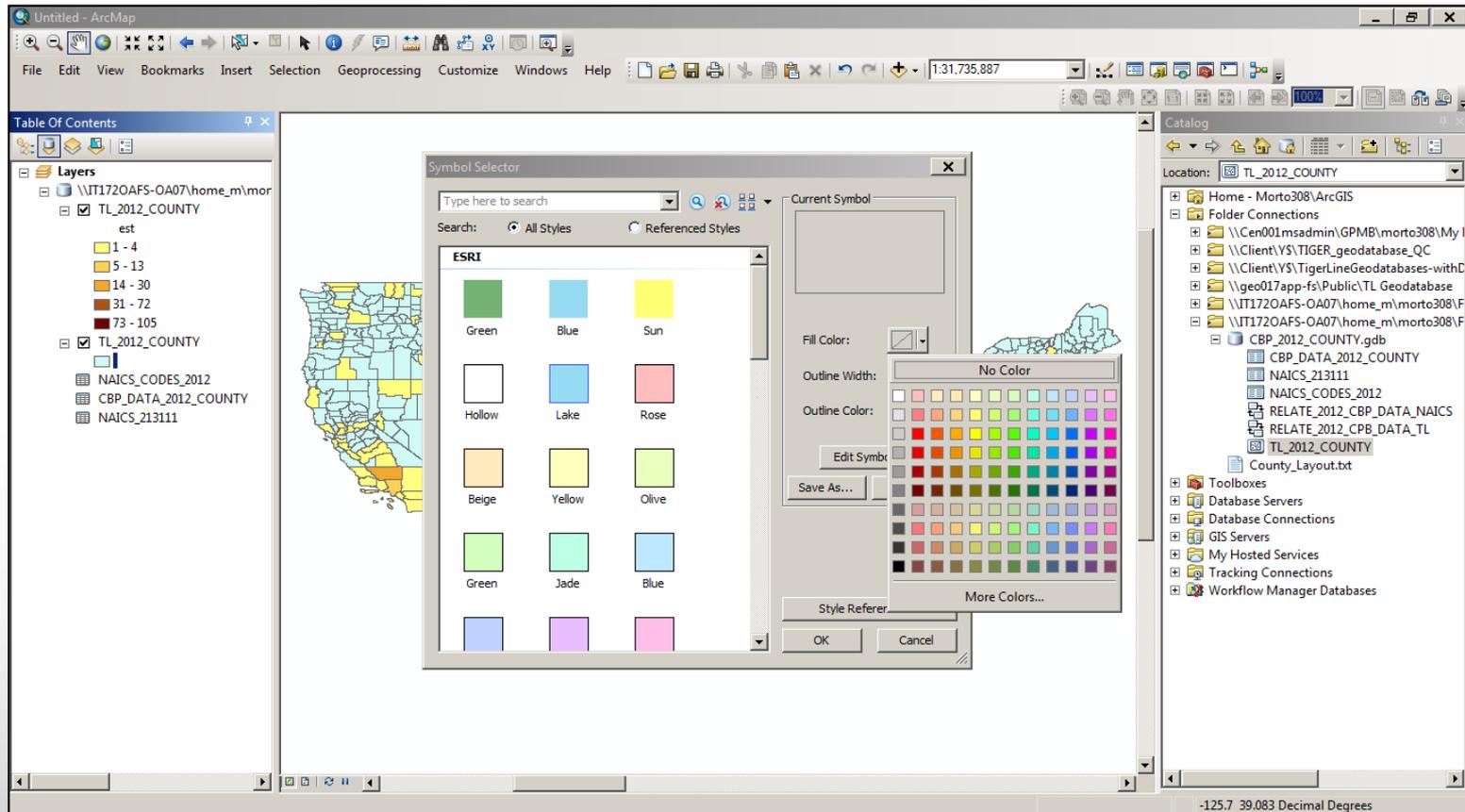
Counties with null values are not displayed. Please take a couple of additional steps to display these counties.



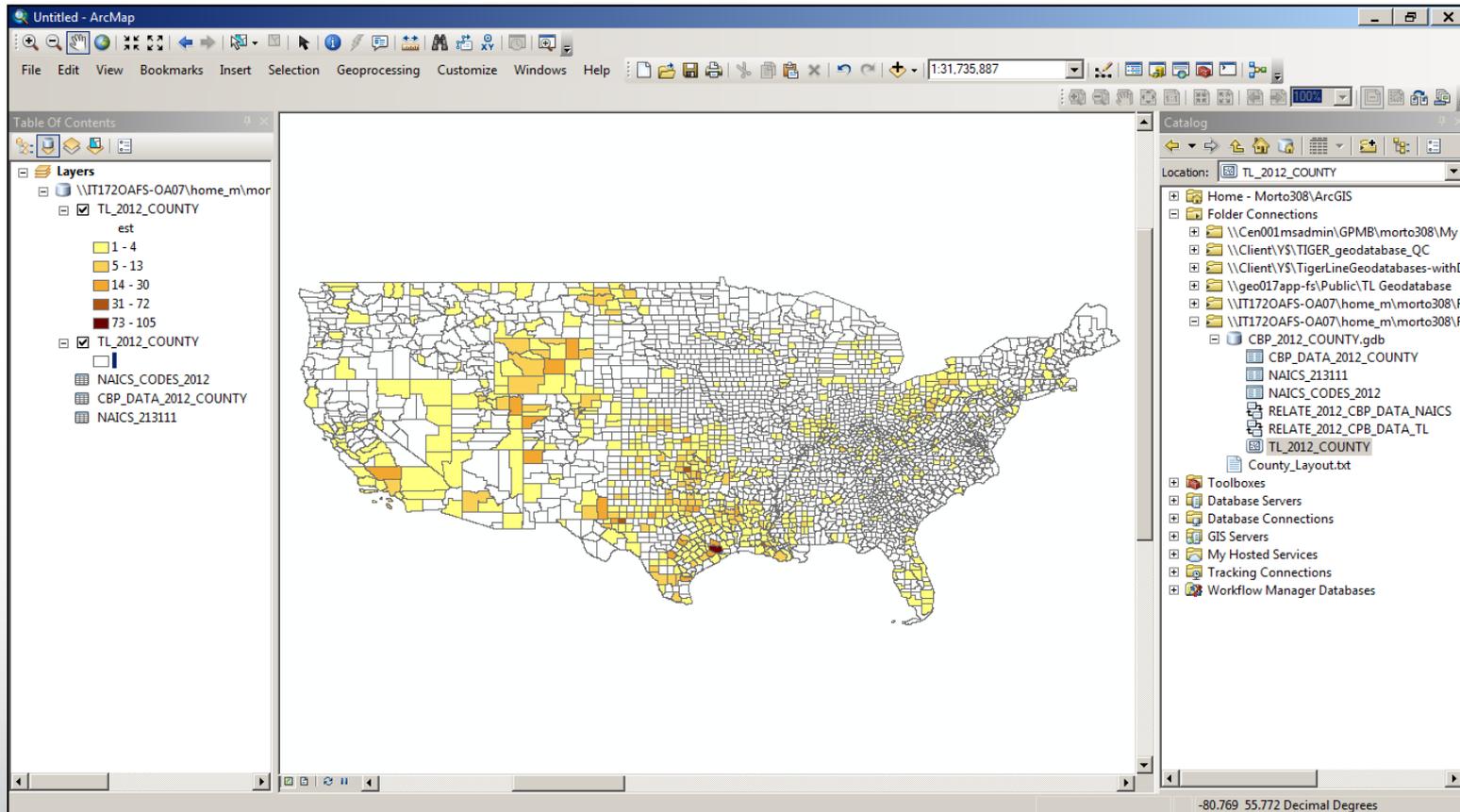
Step 15: Add another 'TL_2012_COUNTY' layer to the Data View



Step 16: Use the *Symbol Selector* dialog to change the *Fill Color* to *No Color* and click 'OK'



In the resulting *Data View*, the counties with 'No Fill' have no data for NAICS Code 213111.



Contact Information

Geography Division

US Census Bureau

Geo.tiger@census.gov

301-763-1128