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**An Analysis of Population Growth   
and Land Use and Land Cover Changes   
in the Pedernales River Basin**

**Prepared For:** 

**Prepared By:  
**

Table of Contents

[1. **INTRODUCTION** 4](#_Toc418510495)

[1.1 Summary 4](#_Toc418510496)

[1.2 Problem Statement 4](#_Toc418510497)

[1.3 Purpose 5](#_Toc418510498)

[1.4 Scope 5](#_Toc418510499)

[**1.** **Data** 6](#_Toc418510500)

[**2.** **METHODOLOGY** 8](#_Toc418510501)

[Methodology 3.1 Task 1 (shapefile creation and change detection maps) 8](#_Toc418510502)

[Methodology 3.2 Task 2 (population trend projections) 9](#_Toc418510503)

[Methodology 3.3 Task 3 (2014 update of LU/LC for the Pedernales) 9](#_Toc418510504)

[**3.** **RESULTS & DISCUSSION** 9](#_Toc418510505)

[**4.** **CONCLUSION** 19](#_Toc418510506)

[**5.** **REFERENCES** 20](#_Toc418510507)

[**Appendix 1. Group Member Contribution PARTICIPATION** 21](#_Toc418510508)

[**Appendix 2. Metadata** 22](#_Toc418510509)

# 1. **INTRODUCTION**

## 1.1 Summary

The Pedernales River Basin is an area of approximately 815,000 acres located in the central Texas Hill Country. The watershed covers the counties of Blanco, Gillespie, Burnett, Hays, Kerr, Kendall, Kimble, and Travis. While the watershed overlays eight counties, Blanco and Gillespie are the counties with the majority of coverage by the Pedernales River Basin. The Pedernales, much like most rivers in central Texas, is prone to major fluctuation in water levels. For this reason, it is important to monitor the water quantity and quality of this area, as the river basin is an important resource to the Texas Hill Country providing a habitat for numerous fish and wildlife, supporting agricultural and ranching land, along with contributing to 23% of flow into Lake Travis, which is a critical source of drinking water for users downstream, such as the City of Austin (Texas Water Symposium, 2014).

## 1.2 Problem Statement

The problem this study attempts to address is how to discern land use and land change patterns within the study area over an extended period of time. The central Texas region is the fastest growing area in the United States. High levels of population growth affect habitat through increased water usage and loss of habitat through an increase in developed land. This information is specifically needed to ensure the environmental protection of the area. In addition to providing habitat for various wildlife, the river provides recreation and water for Austin, the capital of Texas. The project will help identify areas in need of preservation and care by providing maps of change from 1992 to 2014, helping to identify which specific class has been effected or stayed constant. With these maps the Hill Country Alliance will be informed and have data driven advocacy. To solve this problem it will be useful to create a GIS in which we can visualize and represent change in maps and tables. This will provide more concrete evidence to show land use and land change.

## 1.3 Purpose

The purpose of this study will be to analyze the indicators of land fragmentation, land use, development and population trends, along with other indicators of change in the Pedernales River Basin area. It is important to monitor these indicators in order to plan for the future of the Texas Hill Country and to protect its fragile natural resources, as the Pedernales River Basin is home to a plethora of fish and wildlife, who depend on the Pedernales for sustainability. The study will take populations of the eight counties the river basin covers from past, present and future years, along with past and present land use and land coverage data, in order to make create a map-set for The Hill Country Alliance which will track land use/land cover (LU/LC) over a temporal scale and will help to project a future outlook based on LU/LC and population trends for the Pedernales River Basin.

## 1.4 Scope

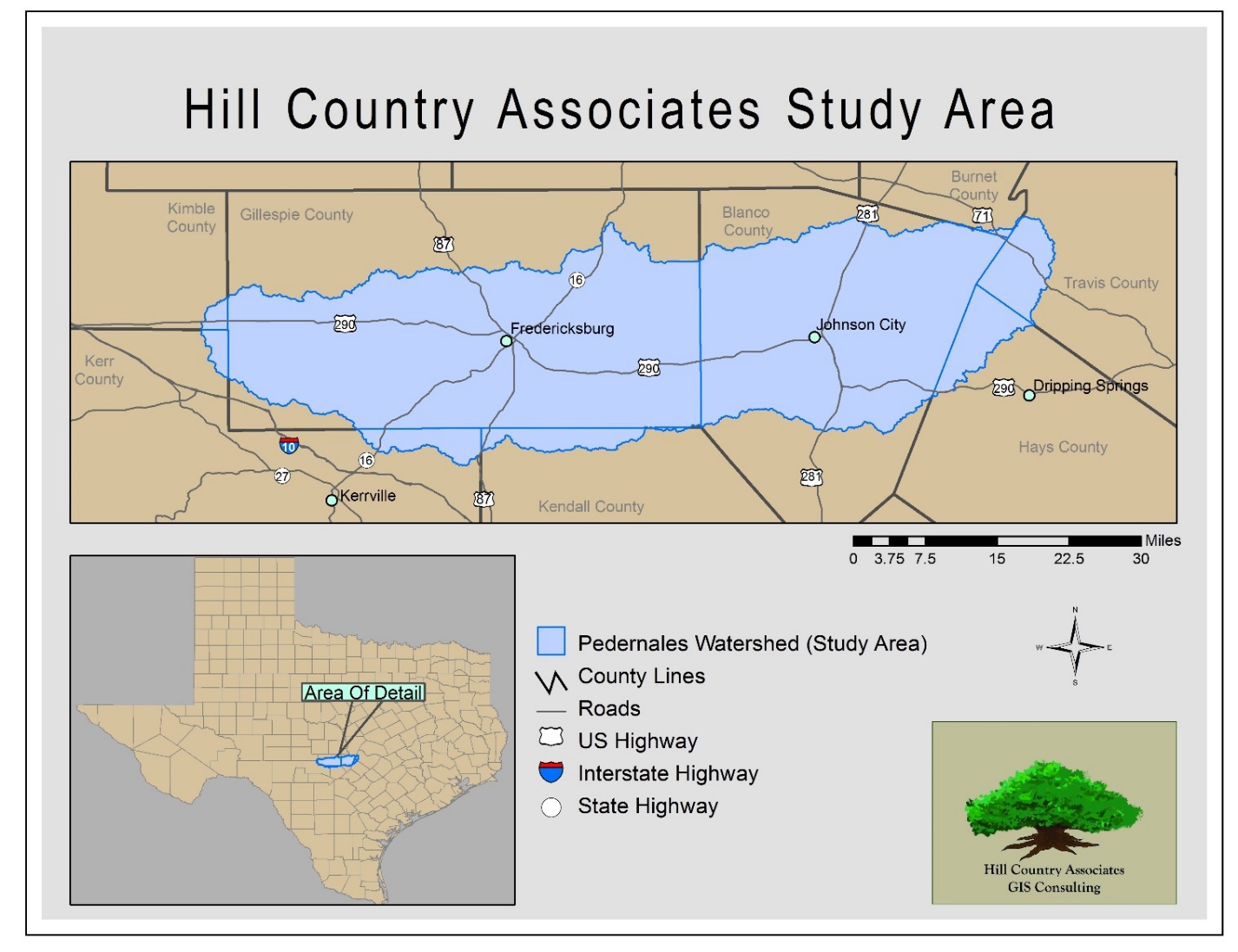
This study will cover the area of the Pedernales River Basin, which includes the counties of Blanco, Burnett, Gillespie, Hays, Kendall, Kerr, Kimble, and Travis (Fig. 1).

Figure 1. Pedernales River Watershed

# **Data**

Population projection data was collected from the Texas Water Development Board 2016 Regional Water Plan County Population Projections for 2020-2070. This data is useful in looking at future population trends alongside LU/LC trends. Population data from our counties were then transferred and tables created in Microsoft Excel.

The Pedernales vector polygon was found and made into a separate layer using Hydro HUCs data from TNRIS. The data is projected into ArcMap using NAD 1983 UTM Zone 14N. The study area was isolated to the Pedernales sub basins within the huc\_10\_watershed shapefile. Once isolated, this polygon can be used to clip our LU/LC data to the extent of the study area.

Road data was collected for the state of Texas from TNRIS, this data was made via TX DOT road data. This was then clipped down to the study area and narrowed down to selected highways and major roads within ArcMap. This helps us give a relative spatial reference to our study area map.

LU/LC data was collected from the Multi-Resolution Land Characteristics Consortium (MRLC); we acquired the National Land Cover Database for the years of 1992, 2001, 2006 and 2011. This data was downloaded via the www.mrlc.gov website as Raster images for use in ArcGIS using the GCS North American 1983 coordinate system, we defined the projected coordinate system as NAD 1983 UTM Zone 14N in order to match the projection for the study area. These datasets are made from a combination of 30-meter resolution LANDSAT imager from the USGS and ancillary data. The NLCD’s (1992, 2001, 2006, & 2011) were clipped down to our study area in ArcMap and the Raster attribute tables were transferred over to excel to derive percentage of land use and land area covered to analyze LU/LC change in the Pedernales River Basin over time. Using Microsoft Excel and ArcMap we have created tables for LU/LC percentages, LU/LC maps, and change detection maps.

LANDSAT imagery was collected from the USGS Landsat 8 satellite for 2014 multispectral imagery. For our study area we collected four images (two summer images and two winter images) via the USGS Earth Explorer. The images collected were Row39Path27 (28\_April\_2014 and 22\_January\_2014) and Row39Path28 (05\_May\_2014 and 29\_January\_2014). These images were combined into multi-date images for each of the row and path pairs and then mosaicked within ERDAS Imagine. This new mosaicked image was then projected to fit the same projection as our other data NAD 1983 UTM Zone 14N. This data will be useful in getting an idea of current LU/LC information for the area in order to compare to the NLCD’s.

# **METHODOLOGY**

## Methodology 3.1 Task 1 (shapefile creation and change detection maps)

The first step in creating shapefiles of LU/LC datasets from the NLCD’s was to get the outline of our study area. To do this we performed a select by attribute in ArcMap of the huc\_10\_watershed layer downloaded from TNRIS to select the Pedernales river basin. After this layer was selected we created a new layer from the selection.

The next step in our analysis was to create shapefiles of LU/LC for each of the years from the NLCD’s downloaded. To do this we extracted by mask each one of the NLCD’s, using the huc\_10\_watershed selection for the Pedernales as the mask. This essentially clipped out the parts of the NLCD’s that did not fall within our study area. After this was completed we matched the symbology to match the color classification used by the MRLC allowing us to make maps of LU/LC for the years of 1992, 2001, 2006, and 2011. Attribute information for each one of the LU/LC rasters were then transferred to excel and percentage land coverage was calculated by dividing individual class cell counts by the total cell count of the raster. These tables help get a numerical sense of change in the Pedernales River Basin.

The next step was to get a visual representation of LU/LC changes in the area via creation of change detection maps. We did this using the 2001-2011 data because the 1992 data was classified using different methods and classes; therefore they were not suitable for creating change detection maps. To create these maps the cell statistics function was used to detect variety in pixel’s between different raster images. This will tell us which pixels remained unchanged and which pixels did change. Maps were then made to visually represent change between the years 2001-2006, 2006-2011, and a 2001-2011 to cover the entire 10 year period.

## Methodology 3.2 Task 2 (population trend projections)

Population projections were pulled from the Texas Water Development Board and placed in Excel where we created a table showing projections through the year 2070 for each of the counties within the study area.

## Methodology 3.3 Task 3 (2014 update of LU/LC for the Pedernales)

Our classification of the 2014 data used LANDSAT 8 imagery rather than NAIP imagery, this is because NAIP imagery is not multispectral and cannot be classified within ERDAS Imagine. After downloading and mosaicking all the necessary two date images from the USGS Earth Explorer the images were projected and clipped down in ERDAS in order to run a supervised classification. For this classification we selected “training” areas of known LU/LC and the computer ran the classification to find areas of similar spectral wavelengths. We combined classes into the major groups: Forest, Herbaceous, Shrubland, Barren, Developed, Agriculture, and Water/Wetland. After the supervised classification the image was then transferred back over to ArcMap and extracted to the study area in order to make an updated 2014 LU/LC map.

# **RESULTS & DISCUSSION**

Overall, the Hill Country Associates team is satisfied with what has been accomplished with this project, it has been a learning process for everyone involved. However, Hill Country Associates feel that this analysis should only be taken for what it is. It is not an intensive analysis of what a funded project would yield, but we have provided a strong starting point for our client to locate important segments of land which are being threatened by urban development so they can better focus their efforts of conservation.

As seen throughout tables 2, 3, and 4, there has been a significant increase of developed land between the years of 2001 and 2011. Developed, High Intensity Land has seen almost a 50% increase over the ten year span. While this urban development has been occurring, there has also been a 14% decrease in overall forestland, this includes Deciduous and Evergreen Forest categories. Based on these tables and maps which were created by Hill Country Associates with collected Landsat data, we were able to create three maps illustrating land use and land coverage changes between the years of 2001 to 2006 (Figure 6), 2006 to 2011 (Figure 7), and 2001 to 2011 (Figure 8) in order to show these percent changes visually.

We have also created a 2014 LU/LC map for the Pedernales River Basin (Figure 5.) While this map shows the most recent uses of land, it is also somewhat less descriptive. Our 2014 LU/LC map only has seven land classes, which is half of what the other LU/LC maps have. Hill Country Associates needed to condense classification categories for this year’s data set because deciphering between smaller, similar land types (such as the four Developed classifications) was near impossible for us to do with unexperienced eyes and such a short timeframe to work with. Since we grouped similar categories together, the computer had a hard time deciphering between Developed land and areas that have built up limestone deposits. Because of this, the 2014 LU/LC map shows an overestimated amount of Developed land.

Initially, Hill Country Associates were under the impression that we would be able to collect past, present, and future population projections in order to create a future outlook of population for the Pedernales River Basin. However, after downloading the needed data we soon realized that this task was something way out of our level of expertise. Instead, we ended up using the population data collected from the Texas Water Development Board (Table 6) alongside the percent changes of LU/LC in the Pedernales River Basin. With this information, we were able to infer that these demographic variables are contributing factors to the increased urban development in the area.

The use of ESRI ArcMap and ERDAS Imagine were of great use to this project and helped to produce good results. We were able to create accurate GIS products for the LU/LC of the Pedernales River Basin by using Landsat data in both of these programs. While these programs were useful to us, they also caused limitations to our project. Hill Country Associates were unfamiliar with ERDAS Imagine prior to this project, as we had not extensively used the program before being assigned to this project, which was a steep learning curve and major setback.

Another issue we came across was the 1992 LU/LC data classification, data for this year was classified differently than the three other study years. As seen in Table 1, there are more classifications from 1992 than the following years, some of the classifications also have slightly different names. These differences can also be seen visually in Figure 1 by comparison to the following three figures.

If Hill Country Associates were to repeat the project, we would take the timeframe given for completion of this project into deeper consideration, as we did not realize how much time we would need for processing our results with ERDAS. Collaboration amongst our peers and educators would be another change next time and in future projects by Hill Country Associates.

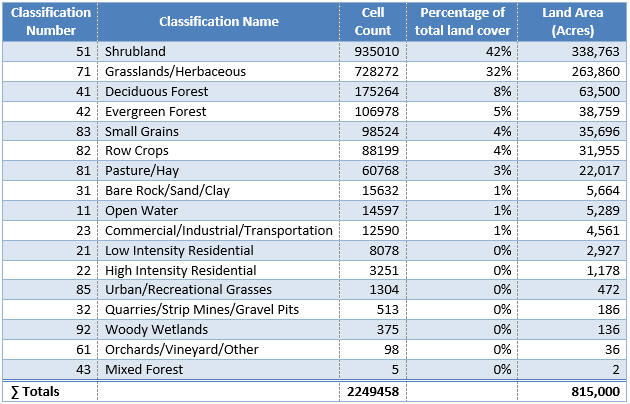


Table 1. 1992 Land Cover Statistics

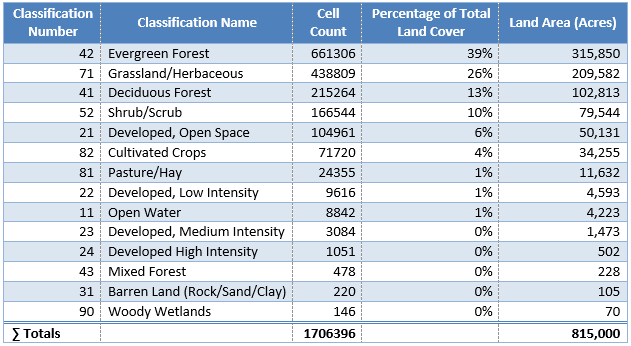


Table 2. 2001 Land Cover Statistics

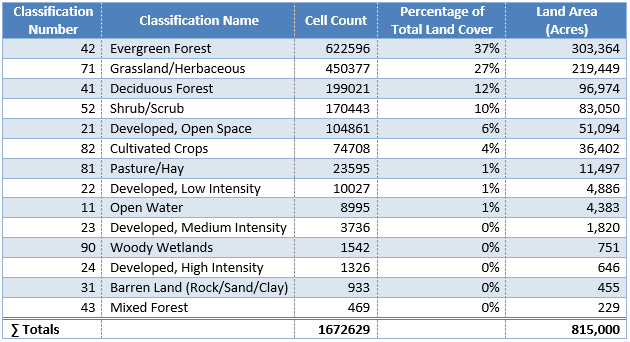


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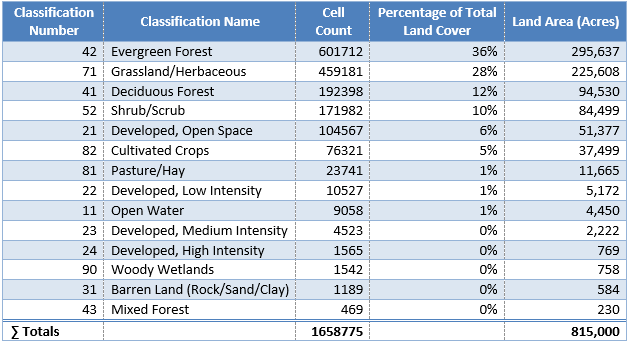


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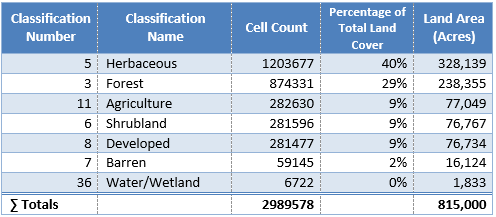


Table 5. 2014 Land Cover Statistics

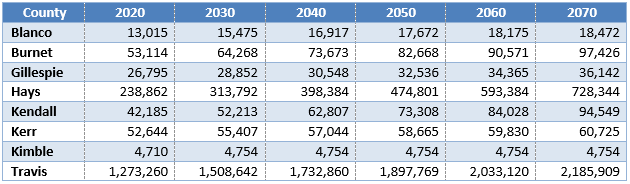


Table 6. Population Totals by County

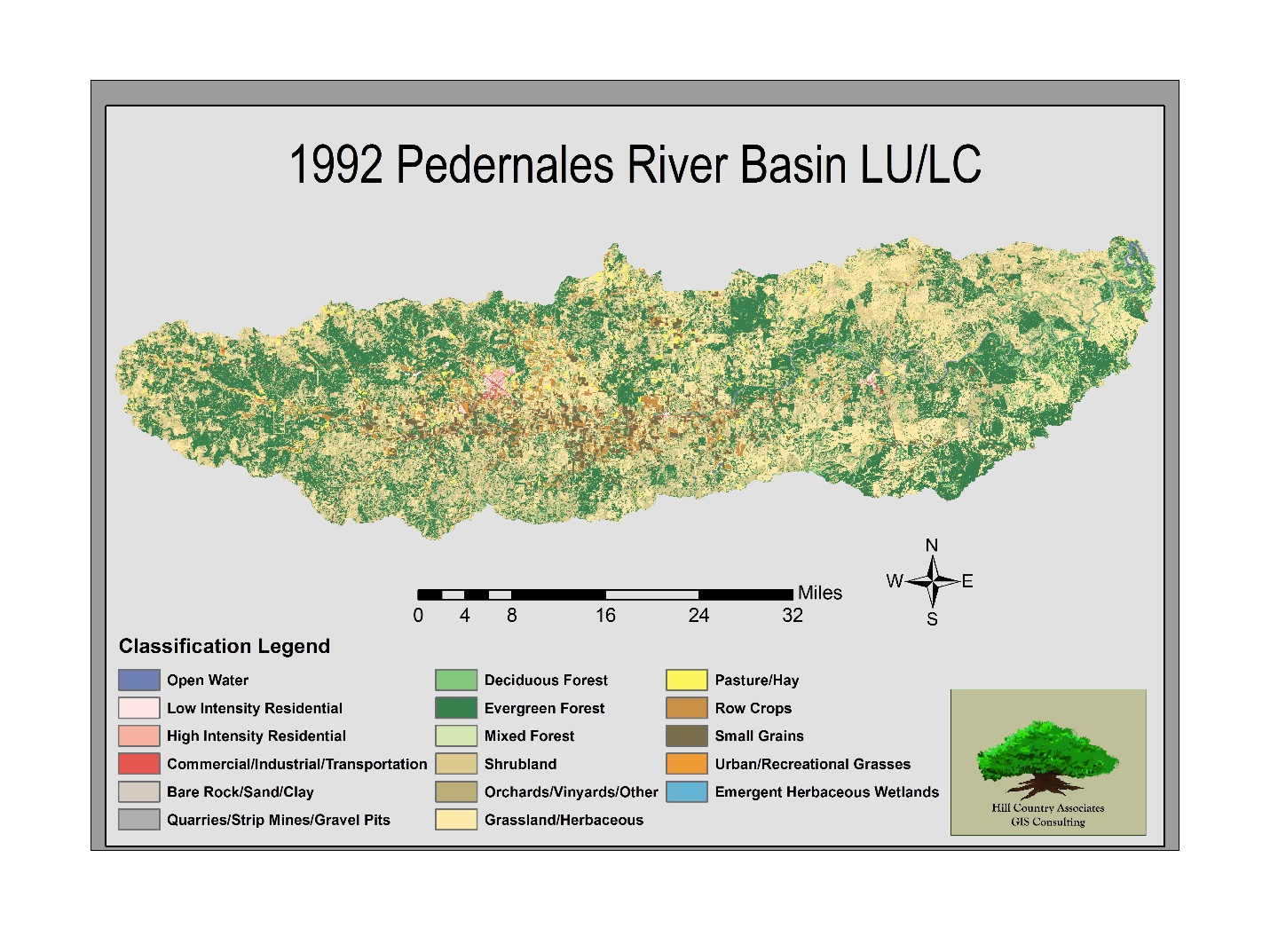


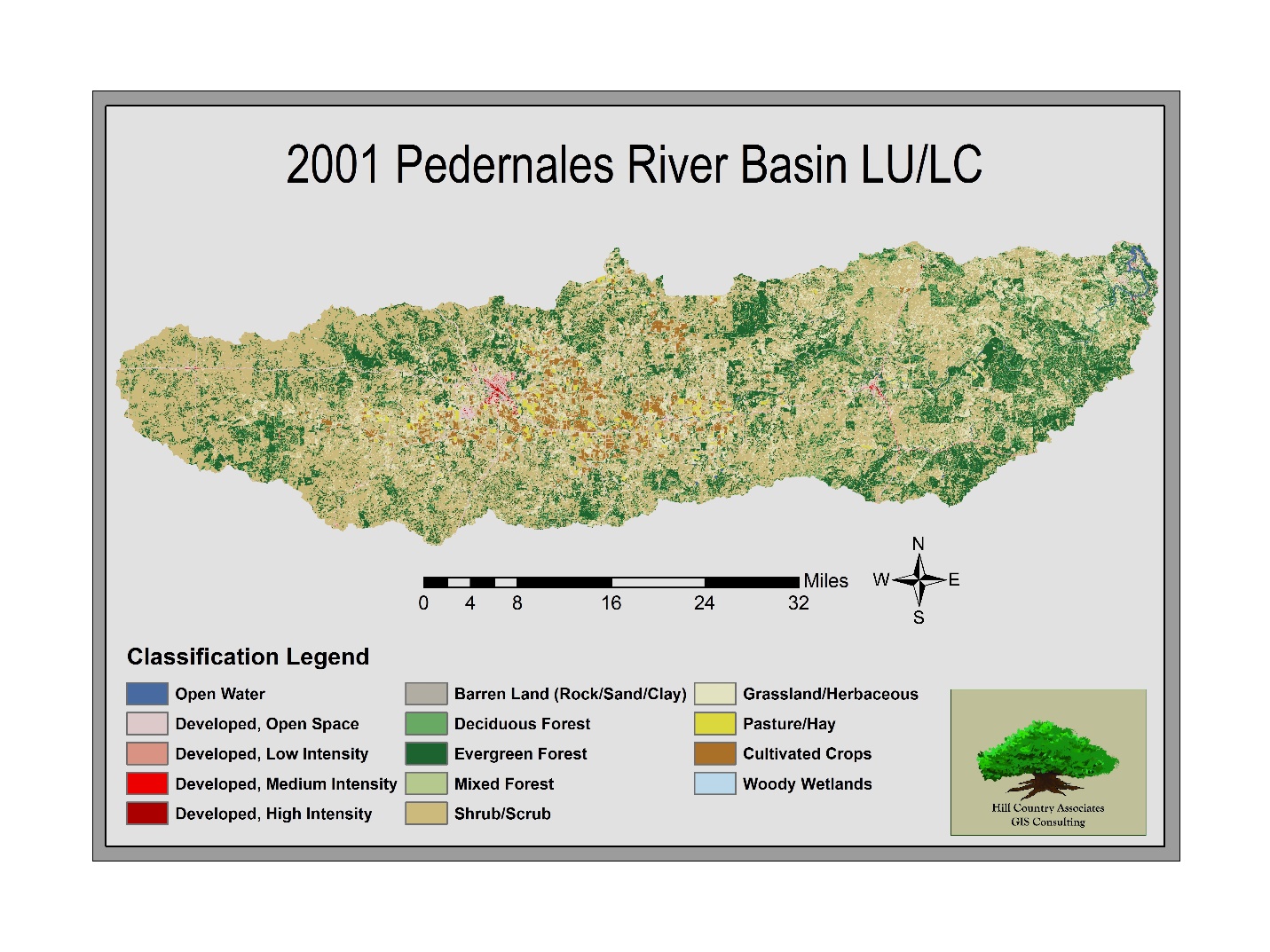
Figure 2. 1992 LULC Map  


Figure 3. 2001 LULC Map

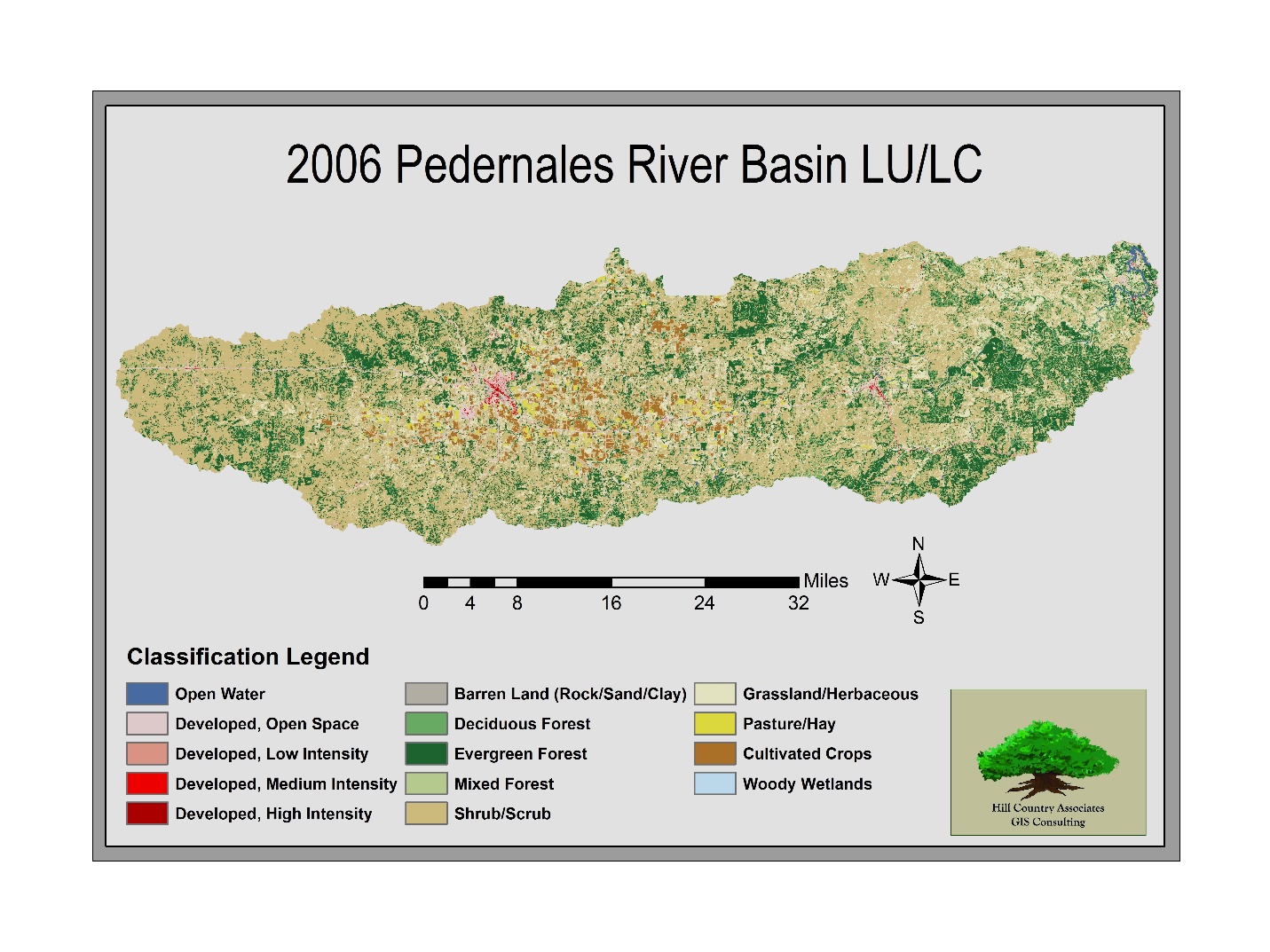


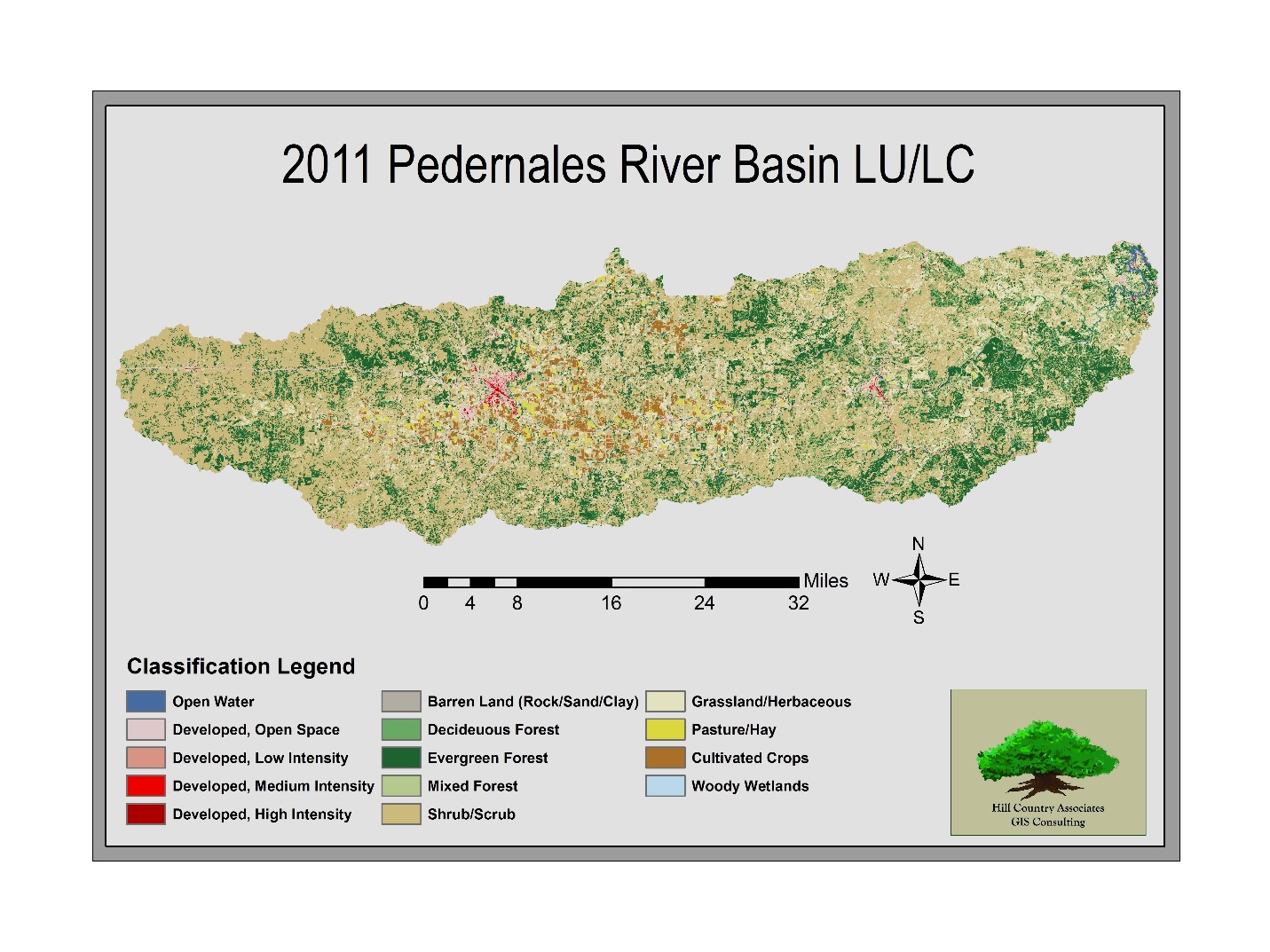
Figure 4. 2006 LULC Map  


Figure 5. 2011 LULC Map

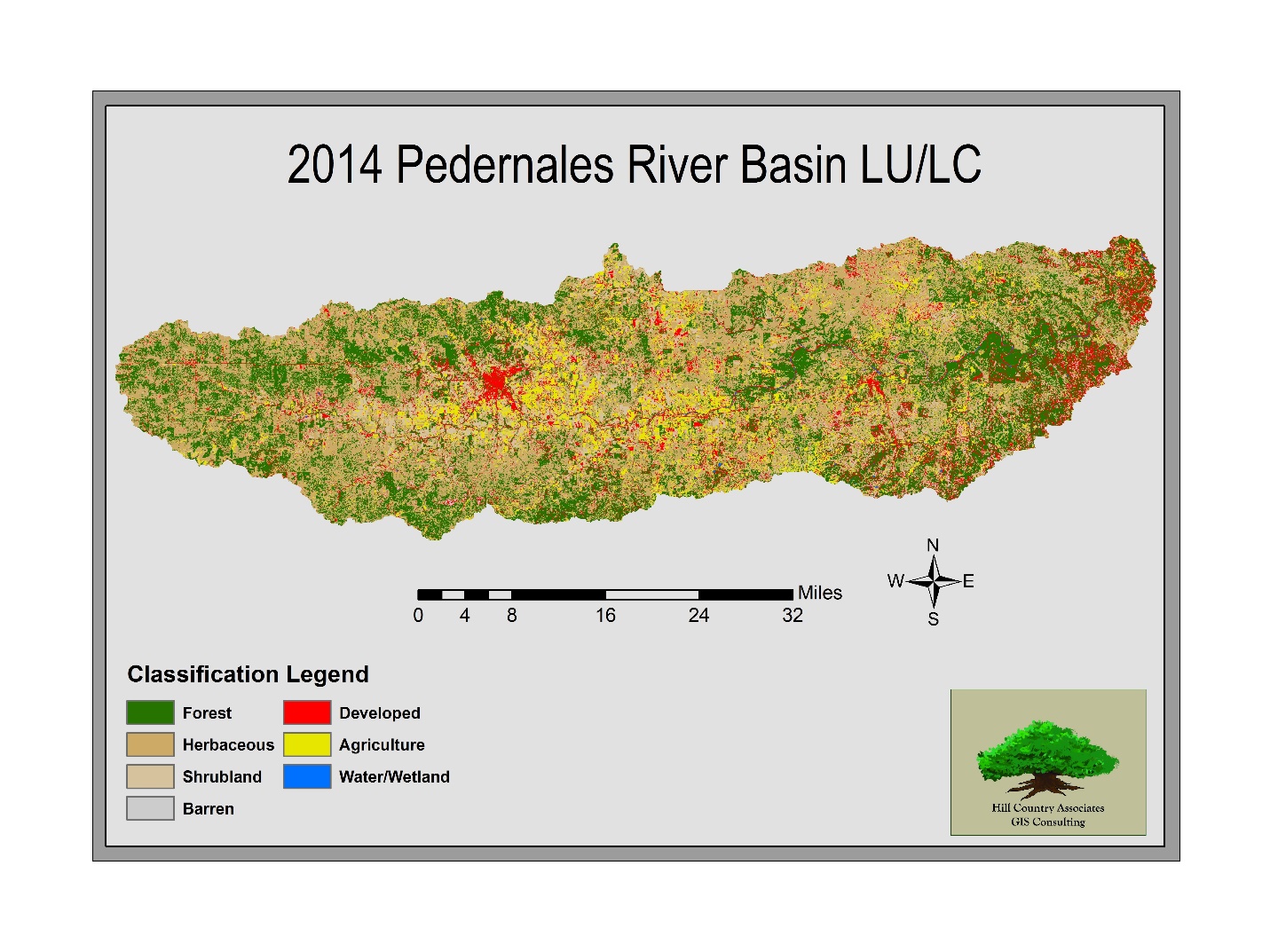


Figure 6. 2014 LULC Map

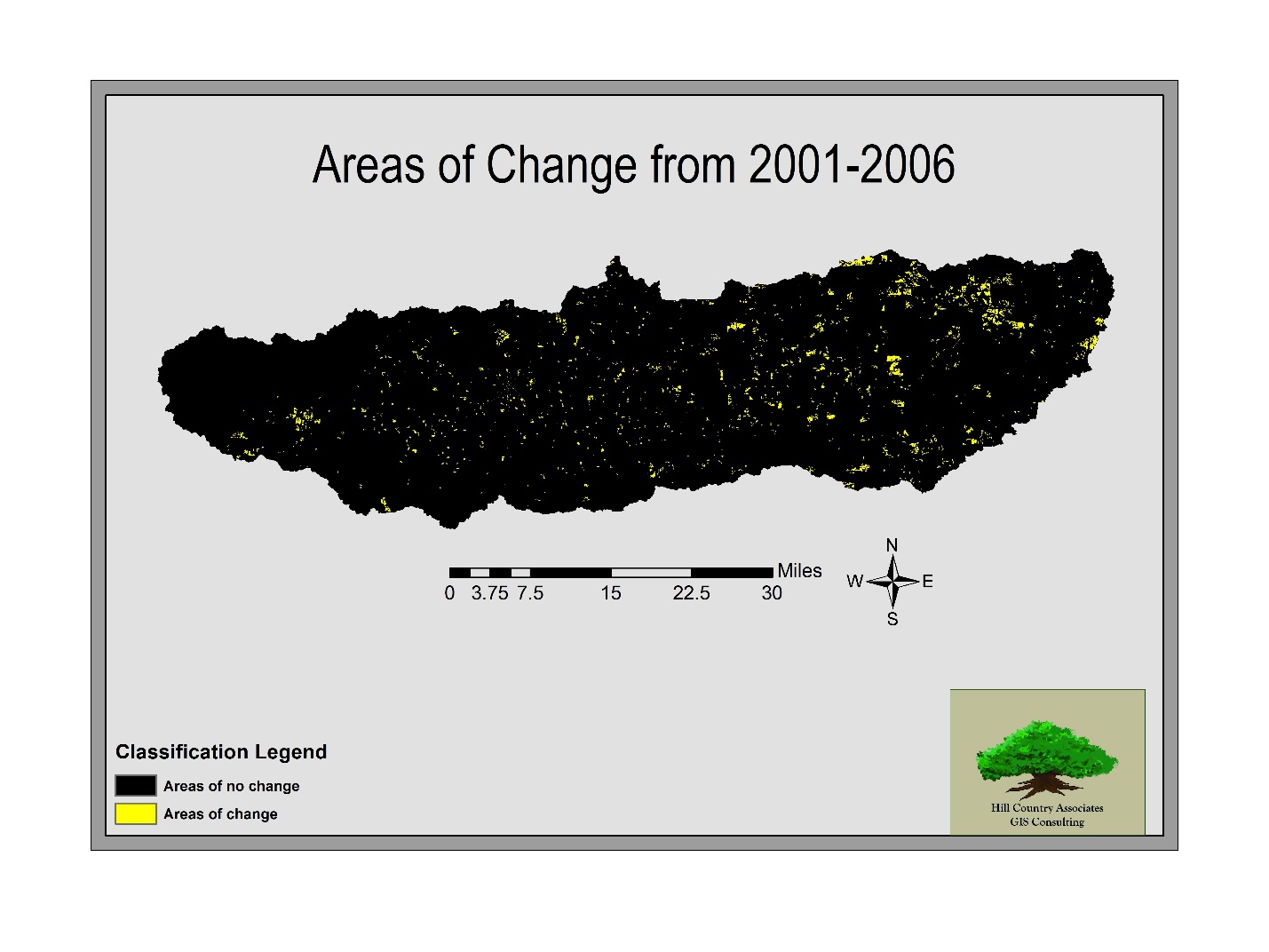


Figure 7. Change Detection Map (2001-2006)



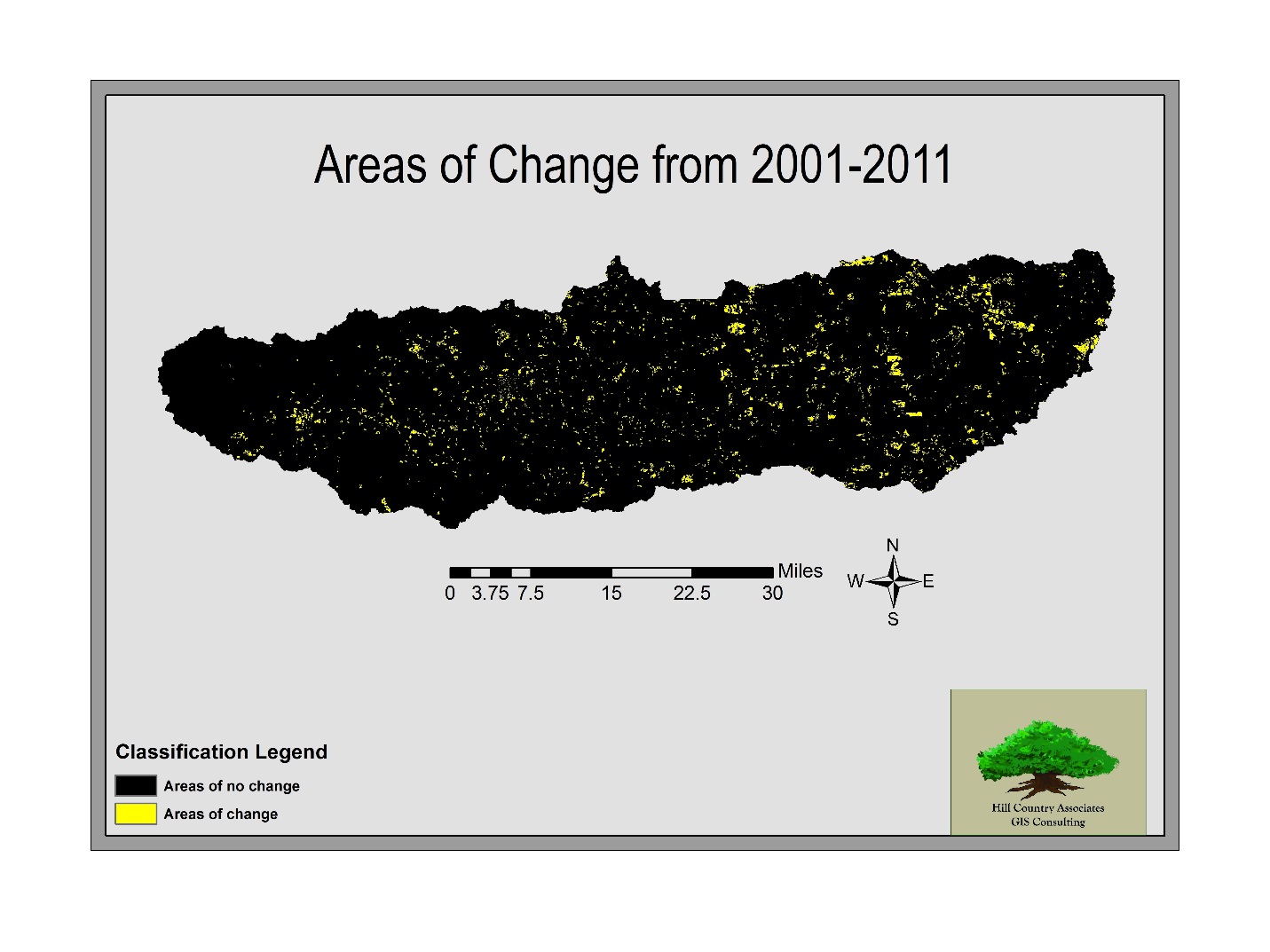
Figure 8. Change Detection Map (2006-2011)  


Figure 9. Change Detection Map (2001-2011)

# **CONCLUSION**

The main pattern to take away from this study is a decrease in forested areas and an increase in developed land. This information was most easily and reliably extracted from 2001-2011 due to the available LU/LC data. This coincides with what one might expect from a growing population. This project had several challenges in creating a 2014 update of LU/LC and throughout the semester we have learned that LU/LC classification is a very difficult and time consuming process. To accurately produce a LU/LC classification takes a highly trained and skilled team of remote sensing experts to analyze patterns and differentiate spectrally similar classes. NAIP imagery due to its high 1-meter resolution is very visually appealing however it is not appropriate for actual classification because it is not a multispectral image, for this reason 30-meter resolution is the highest resolution we were able to work with. What we have created is not a perfect classification but an approximation of land use in the Pedernales and should be viewed as such.

# **REFERENCES**

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Hill Country Alliance (HCA). 2015. Maps. Available from http://www.hillcountryalliance.org/maps/. Last accessed February 18th, 2015.

# **Appendix 1. Group Member Contribution PARTICIPATION**

|  |  |
| --- | --- |
| **Kelly Blanton** | * Responsible for group communication and coordination and analysis of 2014 LANDSAT imagery. * Authored the Problem Statement, Conclusion, and References of the Final Report. |
| **Paul Starkel** | * Responsible for analysis of NLCD content and creation of 1992-2011 LU/LC shapefiles and maps. * Authored the Data and parts of the Methodology sections of the Final Report. |
| **Erica Tice** | * Responsible for analysis of population trend and development, analysis of 2014 LANDSAT imagery and current land use conditions in the Pedernales. * Authored the Introduction, and Results/Discussion sections of the Final Report. |
| **William Weldon** | * Responsible for analysis and interpretation of LANDSAT imagery and creation of an updated 2014 LU/LC classification shapefile and map. * Authored parts of the Methodology and Metadata sections for the Final Report. |

**Appendix 2. Metadata**  
lulc1992

Raster Dataset

Tags  
Hill County Associates

Summary

Land Use and Land Cover of the Pedernales River Basin

Description

Extracted to the study area of the Pedernales using the NLCD 1992 data downloaded from the MRLC.

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

Use limitations

This data is for illustrative purposes. Hill Country Associates makes no warranties regarding this data accuracy or reliability and disclaims any and all liability associated with the use of this data. The user fully assumes the risk of use of this data.

Extent  
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Scale Range

There is no scale range for this item.

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Theme keywords  Hill County Associates

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Title lulc1992

Presentation formats  digital map

FGDC geospatial presentation format  raster digital data

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[Resource Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp425E.tmp.htm#ID0TAGDA)

Dataset languages  English

Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

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Bounding rectangle

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East longitude -92.328456

South latitude 25.572904

North latitude 37.367613

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Constraints

Limitations of use

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Citation

Citation Information

Title

lulc1992

Geospatial Data Presentation Form raster digital data

Description

Abstract

Extracted to the study area of the Pedernales using the NLCD 1992 data downloaded from the MRLC.

Purpose

Land Use and Land Cover of the Pedernales River Basin

Spatial Domain

Bounding Coordinates

West Bounding Coordinate -108.890410

East Bounding Coordinate -92.328456

North Bounding Coordinate 37.367613

South Bounding Coordinate 25.572904

Keywords

Theme

Theme Keyword Thesaurus None

Theme Keyword Hill County Associates

Access Constraints

None

Use Constraints

This data is for illustrative purposes. Hill Country Associates makes no warranties regarding this data accuracy or reliability and disclaims any and all liability associated with the use of this data. The user fully assumes the risk of use of this data.

Data Set Credit

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

Native Data Set Environment

Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

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Direct Spatial Reference Method Raster

Raster Object Information

Raster Object Type Grid Cell

Row Count 38384

Column Count 44280

[*Hide Spatial Data Organization ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp425E.tmp.htm#ID0ENA)

[Spatial Reference ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp425E.tmp.htm#ID0EMA)

Horizontal Coordinate System Definition

Planar

Map Projection

Map Projection Name NAD 1983 UTM Zone 14N

Transverse Mercator

Scale Factor at Central Meridian 0.9996

Longitude of Central Meridian -99.0

Latitude of Projection Origin 0.0

False Easting 500000.0

False Northing 0.0

Planar Coordinate Information

Planar Coordinate Encoding Method coordinate pair

Coordinate Representation

Abscissa Resolution 0.000000002220024164500956

Ordinate Resolution 0.000000002220024164500956

Planar Distance Units meter

Geodetic Model

Horizontal Datum Name D North American 1983

Ellipsoid Name GRS 1980

Semi-major Axis 6378137.0

Denominator of Flattening Ratio 298.257222101

[*Hide Spatial Reference ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp425E.tmp.htm#ID0EMA)

[Entities and Attributes ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp425E.tmp.htm#/metadata/eainfo//text()[1])

Detailed Description

Entity Type

Entity Type Label lulc1992.vat

Attribute

Attribute Label Rowid

Attribute Definition

Internal feature number.

Attribute Definition Source Esri

Attribute Domain Values

Unrepresentable Domain

Sequential unique whole numbers that are automatically generated.

Attribute

Attribute Label VALUE

Attribute

Attribute Label COUNT

Attribute

Attribute Label RED

Attribute

Attribute Label GREEN

Attribute

Attribute Label BLUE

*[Hide Entities and Attributes ▲](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp425E.tmp.htm" \l "/metadata/eainfo//text()[1])*

[Metadata Reference ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp425E.tmp.htm#ID0EKA)

Metadata Date 2015-05-04

Metadata Standard Name FGDC Content Standard for Digital Geospatial Metadata

Metadata Standard Version FGDC-STD-001-1998

Metadata Time Convention local time

lulc2001

Raster Dataset

Tags  
Hill Country Associates

Summary

Land Use and Land Cover of the Pedernales River Basin

Description

Extracted to the study area of the Pedernales using the NLCD 2001 data downloaded from the MRLC.

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

Use limitations

This data is for illustrative purposes. Hill Country Associates makes no warranties regarding this data accuracy or reliability and disclaims any and all liability associated with the use of this data. The user fully assumes the risk of use of this data.

Extent

|  |  |  |  |
| --- | --- | --- | --- |
| West | -108.890415 | East | -92.328363 |
| North | 37.367645 | South | 25.572891 |

Scale Range

|  |  |
| --- | --- |
| Maximum (zoomed in) | 1:5,000 |
| Minimum (zoomed out) | 1:150,000,000 |

[ArcGIS Metadata ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#arcgisMetadata)

[Topics and Keywords ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#true)

\* Content type  Downloadable Data

[*Hide Topics and Keywords ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#true)

[Citation ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EHKA)

\* Title lulc2001

Presentation formats  \* digital map

[*Hide Citation ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EHKA)

[Resource Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EDCGLA)

Dataset languages  \* English (UNITED STATES)

Spatial representation type  \* grid

\* Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

ArcGIS item properties

\* Name lulc2001

\* Location file://E:\Geo4427\project\_gdb\lulc2001

\* Access protocol Local Area Network

[*Hide Resource Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EDCGLA)

[Extents ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EEACGLA)

Extent

Geographic extent

Bounding rectangle

Extent type  Extent used for searching

\* West longitude -108.890415

\* East longitude -92.328363

\* North latitude 37.367645

\* South latitude 25.572891

\* Extent contains the resource Yes

Extent in the item's coordinate system

\* West longitude -381764.043951

\* East longitude 1092582.449857

\* South latitude 2857626.403782

\* North latitude 4135657.740160

\* Extent contains the resource Yes

[*Hide Extents ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EEACGLA)

[Resource Constraints ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EAKA)

Constraints

Limitations of use

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[*Hide Resource Constraints ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EAKA)

[Spatial Reference ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EEBGLA)

ArcGIS coordinate system

\* Type Projected

\* Geographic coordinate reference GCS\_North\_American\_1983

\* Projection NAD\_1983\_UTM\_Zone\_14N

\* Coordinate reference details

Projected coordinate system

Well-known identifier 26914

X origin -5120900

Y origin -9998100

XY scale 450445547.3910538

Z origin -100000

Z scale 10000

M origin -100000

M scale 10000

XY tolerance 0.001

Z tolerance 0.001

M tolerance 0.001

High precision true

Latest well-known identifier 26914

Well-known text PROJCS["NAD\_1983\_UTM\_Zone\_14N",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse\_Mercator"],PARAMETER["False\_Easting",500000.0],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-99.0],PARAMETER["Scale\_Factor",0.9996],PARAMETER["Latitude\_Of\_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26914]]

Reference system identifier

\* Value 26914

\* Codespace EPSG

\* Version 8.2.6

[*Hide Spatial Reference ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EEBGLA)

[Spatial Data Properties ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EAAGLA)

[Georectified Grid  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpCDCC.tmp.htm" \l "ID0ELADA)

\* Number of dimensions 2

Axis dimensions properties

Dimension type  column (x-axis)

\* Dimension size 44242

\* Resolution  33.324590 Meter

Axis dimensions properties

Dimension type  row (y-axis)

\* Dimension size 38351

\* Resolution  33.324590 Meter

\* Cell geometry  area

\* Point in pixel  center

\* Transformation parameters are available Yes

\* Check points are available No

Corner points

\* Point -381764.043951 2857626.403782

\* Point -381764.043951 4135657.740160

\* Point 1092582.449857 4135657.740160

\* Point 1092582.449857 2857626.403782

\* Center point 355409.202953 3496642.071971

[*Hide Georectified Grid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0ELADA)

[ArcGIS Raster Properties  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpCDCC.tmp.htm" \l "ID0EAGLA)

General Information

\* Pixel depth 8

\* Compression type RLE

\* Number of bands 1

\* Raster format GRID

\* Source type continuous

\* Pixel type unsigned integer

\* No data value 0

\* Has colormap No

\* Has pyramids Yes

[*Hide ArcGIS Raster Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EAGLA)

[*Hide Spatial Data Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EAAGLA)

[Spatial Data Content ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EBA)

Image Description

\* Type of information  physical measurement

Band information

\* Description Band\_1

\* Maximum value 90.000000

\* Minimum value 11.000000

\* Number of bits per value 8

[*Hide Spatial Data Content ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EBA)

[Geoprocessing history ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EDGLA)

Process

Process name Extract by Mask (3)

Date 2015-02-04 11:58:45

Tool location c:\program files (x86)\arcgis\desktop10.2\ArcToolbox\Toolboxes\Spatial Analyst Tools.tbx\ExtractByMask

Command issued

ExtractByMask nlcd\_2001\_landcover\_2011\_edition\_2014\_10\_10.img "huc\_10\_watershed selection" E:\Geo4427\project\_gdb\LU\_2001rs

Include in lineage when exporting metadata No

[*Hide Geoprocessing history ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EDGLA)

[Distribution ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EHA)

Distribution format

\* Name Raster Dataset

[*Hide Distribution ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EHA)

[Fields ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0ECA)

[Details for object lulc2001.vat ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpCDCC.tmp.htm" \l "ID0EACA)

\* Type Table

\* Row count 14

[Field Rowid ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpCDCC.tmp.htm" \l "ID0ECACA)

\* Alias Rowid

\* Data type OID

\* Width 4

\* Precision 0

\* Scale 0

\* Field description

Internal feature number.

\* Description source

Esri

\* Description of values

Sequential unique whole numbers that are automatically generated.

[*Hide Field Rowid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0ECACA)

[Field VALUE ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpCDCC.tmp.htm" \l "ID0EBACA)

\* Alias VALUE

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field VALUE ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EBACA)

[Field COUNT ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpCDCC.tmp.htm" \l "ID0EAACA)

\* Alias COUNT

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field COUNT ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EAACA)

[*Hide Details for object lulc2001.vat ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0EACA)

[*Hide Fields ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0ECA)

[Metadata Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0TAKLA)

\* Metadata language English (UNITED STATES)

\* Metadata character set  utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata  \* dataset

Scope name  \* dataset

\* Last update 2015-05-04

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata ItemDescription

Created in ArcGIS for the item 2015-02-04 11:58:45

Last modified in ArcGIS for the item 2015-05-04 12:32:27

Automatic updates

Have been performed Yes

Last update 2015-05-04 12:32:27

[*Hide Metadata Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#ID0TAKLA)

[FGDC Metadata (read-only) ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#fgdcMetadata)

[Entities and Attributes ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#/metadata/eainfo//text()[1])

Detailed Description

Entity Type

Entity Type Label lulc2001.vat

Attribute

Attribute Label Rowid

Attribute Definition

Internal feature number.

Attribute Definition Source Esri

Attribute Domain Values

Unrepresentable Domain

Sequential unique whole numbers that are automatically generated.

Attribute

Attribute Label VALUE

Attribute

Attribute Label COUNT

[*Hide Entities and Attributes ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpCDCC.tmp.htm#/metadata/eainfo//text()[1])

lulc2006

Raster Dataset

Tags  
Hill Country Associates

Summary

Land Use and Land Cover of the Pedernales River Basin.

Description

Extracted to the study area of the Pedernales using the NLCD 2006 data downloaded from the MRLC.

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

Use limitations

This data is for illustrative purposes. Hill Country Associates makes no warranties regarding this data accuracy or reliability and disclaims any and all liability associated with the use of this data. The user fully assumes the risk of use of this data.

Extent

|  |  |  |  |
| --- | --- | --- | --- |
| West | -108.890415 | East | -92.328363 |
| North | 37.367645 | South | 25.572891 |

Scale Range

|  |  |
| --- | --- |
| Maximum (zoomed in) | 1:5,000 |
| Minimum (zoomed out) | 1:150,000,000 |

[ArcGIS Metadata ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#arcgisMetadata)

[Topics and Keywords ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#true)

\* Content type  Downloadable Data

[*Hide Topics and Keywords ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#true)

[Citation ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EHKA)

\* Title lulc2006

Presentation formats  \* digital map

[*Hide Citation ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EHKA)

[Resource Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EDCGLA)

Dataset languages  \* English (UNITED STATES)

Spatial representation type  \* grid

\* Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

ArcGIS item properties

\* Name lulc2006

\* Location file://E:\Geo4427\project\_gdb\lulc2006

\* Access protocol Local Area Network

[*Hide Resource Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EDCGLA)

[Extents ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EEACGLA)

Extent

Geographic extent

Bounding rectangle

Extent type  Extent used for searching

\* West longitude -108.890415

\* East longitude -92.328363

\* North latitude 37.367645

\* South latitude 25.572891

\* Extent contains the resource Yes

Extent in the item's coordinate system

\* West longitude -381764.043951

\* East longitude 1092582.449857

\* South latitude 2857626.403782

\* North latitude 4135657.740160

\* Extent contains the resource Yes

[*Hide Extents ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EEACGLA)

[Resource Constraints ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EAKA)

Constraints

Limitations of use

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[*Hide Resource Constraints ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EAKA)

[Spatial Reference ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EEBGLA)

ArcGIS coordinate system

\* Type Projected

\* Geographic coordinate reference GCS\_North\_American\_1983

\* Projection NAD\_1983\_UTM\_Zone\_14N

\* Coordinate reference details

Projected coordinate system

Well-known identifier 26914

X origin -5120900

Y origin -9998100

XY scale 450445547.3910538

Z origin -100000

Z scale 10000

M origin -100000

M scale 10000

XY tolerance 0.001

Z tolerance 0.001

M tolerance 0.001

High precision true

Latest well-known identifier 26914

Well-known text PROJCS["NAD\_1983\_UTM\_Zone\_14N",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse\_Mercator"],PARAMETER["False\_Easting",500000.0],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-99.0],PARAMETER["Scale\_Factor",0.9996],PARAMETER["Latitude\_Of\_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26914]]

Reference system identifier

\* Value 26914

\* Codespace EPSG

\* Version 8.2.6

[*Hide Spatial Reference ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EEBGLA)

[Spatial Data Properties ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EAAGLA)

[Georectified Grid  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4675.tmp.htm" \l "ID0ELADA)

\* Number of dimensions 2

Axis dimensions properties

Dimension type  column (x-axis)

\* Dimension size 44242

\* Resolution  33.324590 Meter

Axis dimensions properties

Dimension type  row (y-axis)

\* Dimension size 38351

\* Resolution  33.324590 Meter

\* Cell geometry  area

\* Point in pixel  center

\* Transformation parameters are available Yes

\* Check points are available No

Corner points

\* Point -381764.043951 2857626.403782

\* Point -381764.043951 4135657.740160

\* Point 1092582.449857 4135657.740160

\* Point 1092582.449857 2857626.403782

\* Center point 355409.202953 3496642.071971

[*Hide Georectified Grid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0ELADA)

[ArcGIS Raster Properties  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4675.tmp.htm" \l "ID0EAGLA)

General Information

\* Pixel depth 8

\* Compression type RLE

\* Number of bands 1

\* Raster format GRID

\* Source type continuous

\* Pixel type unsigned integer

\* No data value 0

\* Has colormap No

\* Has pyramids Yes

[*Hide ArcGIS Raster Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EAGLA)

[*Hide Spatial Data Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EAAGLA)

[Spatial Data Content ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EBA)

Image Description

\* Type of information  physical measurement

Band information

\* Description Band\_1

\* Maximum value 90.000000

\* Minimum value 11.000000

\* Number of bits per value 8

[*Hide Spatial Data Content ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EBA)

[Geoprocessing history ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EDGLA)

Process

Process name Extract by Mask (2)

Date 2015-02-04 11:54:53

Tool location c:\program files (x86)\arcgis\desktop10.2\ArcToolbox\Toolboxes\Spatial Analyst Tools.tbx\ExtractByMask

Command issued

ExtractByMask nlcd\_2006\_landcover\_2011\_edition\_2014\_10\_10.img "huc\_10\_watershed selection" E:\Geo4427\project\_gdb\LU\_2006rs

Include in lineage when exporting metadata No

[*Hide Geoprocessing history ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EDGLA)

[Distribution ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EHA)

Distribution format

\* Name Raster Dataset

[*Hide Distribution ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EHA)

[Fields ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0ECA)

[Details for object lulc2006.vat ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4675.tmp.htm" \l "ID0EACA)

\* Type Table

\* Row count 14

[Field Rowid ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4675.tmp.htm" \l "ID0ECACA)

\* Alias Rowid

\* Data type OID

\* Width 4

\* Precision 0

\* Scale 0

\* Field description

Internal feature number.

\* Description source

Esri

\* Description of values

Sequential unique whole numbers that are automatically generated.

[*Hide Field Rowid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0ECACA)

[Field VALUE ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4675.tmp.htm" \l "ID0EBACA)

\* Alias VALUE

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field VALUE ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EBACA)

[Field COUNT ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4675.tmp.htm" \l "ID0EAACA)

\* Alias COUNT

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field COUNT ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EAACA)

[*Hide Details for object lulc2006.vat ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0EACA)

[*Hide Fields ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0ECA)

[Metadata Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0TAKLA)

\* Metadata language English (UNITED STATES)

\* Metadata character set  utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata  \* dataset

Scope name  \* dataset

\* Last update 2015-05-04

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata ItemDescription

Created in ArcGIS for the item 2015-02-04 11:54:53

Last modified in ArcGIS for the item 2015-05-04 12:34:04

Automatic updates

Have been performed Yes

Last update 2015-05-04 12:34:04

[*Hide Metadata Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#ID0TAKLA)

[FGDC Metadata (read-only) ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#fgdcMetadata)

[Entities and Attributes ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#/metadata/eainfo//text()[1])

Detailed Description

Entity Type

Entity Type Label lulc2006.vat

Attribute

Attribute Label Rowid

Attribute Definition

Internal feature number.

Attribute Definition Source Esri

Attribute Domain Values

Unrepresentable Domain

Sequential unique whole numbers that are automatically generated.

Attribute

Attribute Label VALUE

Attribute

Attribute Label COUNT

[*Hide Entities and Attributes ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4675.tmp.htm#/metadata/eainfo//text()[1])

lulc2011

Raster Dataset

Tags

Hill Country Associates

Summary

Land Use and Land Cover of the Pedernales River Basin

Description

Extracted to the study area of the Pedernales using the NLCD 2011 data downloaded from the MRLC.

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

Use limitations

This data is for illustrative purposes. Hill Country Associates makes no warranties regarding this data accuracy or reliability and disclaims any and all liability associated with the use of this data. The user fully assumes the risk of use of this data.

Extent

|  |  |  |  |
| --- | --- | --- | --- |
| West | -108.890415 | East | -92.328363 |
| North | 37.367645 | South | 25.572891 |

Scale Range

|  |  |
| --- | --- |
| Maximum (zoomed in) | 1:5,000 |
| Minimum (zoomed out) | 1:150,000,000 |

[ArcGIS Metadata ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#arcgisMetadata)

[Topics and Keywords ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#true)

\* Content type  Downloadable Data

[*Hide Topics and Keywords ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#true)

[Citation ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EHKA)

\* Title lulc2011

Presentation formats  \* digital map

[*Hide Citation ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EHKA)

[Resource Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EDCGLA)

Dataset languages  \* English (UNITED STATES)

Spatial representation type  \* grid

\* Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

ArcGIS item properties

\* Name lulc2011

\* Location file://E:\Geo4427\project\_gdb\lulc2011

\* Access protocol Local Area Network

[*Hide Resource Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EDCGLA)

[Extents ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EEACGLA)

Extent

Geographic extent

Bounding rectangle

Extent type  Extent used for searching

\* West longitude -108.890415

\* East longitude -92.328363

\* North latitude 37.367645

\* South latitude 25.572891

\* Extent contains the resource Yes

Extent in the item's coordinate system

\* West longitude -381764.043951

\* East longitude 1092582.449857

\* South latitude 2857626.403782

\* North latitude 4135657.740160

\* Extent contains the resource Yes

[*Hide Extents ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EEACGLA)

[Resource Constraints ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EAKA)

Constraints

Limitations of use

This data is for illustrative purposes. Hill Country Associates makes no warranties regarding this data accuracy or reliability and disclaims any and all liability associated with the use of this data. The user fully assumes the risk of use of this data.

[*Hide Resource Constraints ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EAKA)

[Spatial Reference ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EEBGLA)

ArcGIS coordinate system

\* Type Projected

\* Geographic coordinate reference GCS\_North\_American\_1983

\* Projection NAD\_1983\_UTM\_Zone\_14N

\* Coordinate reference details

Projected coordinate system

Well-known identifier 26914

X origin -5120900

Y origin -9998100

XY scale 450445547.3910538

Z origin -100000

Z scale 10000

M origin -100000

M scale 10000

XY tolerance 0.001

Z tolerance 0.001

M tolerance 0.001

High precision true

Latest well-known identifier 26914

Well-known text PROJCS["NAD\_1983\_UTM\_Zone\_14N",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse\_Mercator"],PARAMETER["False\_Easting",500000.0],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-99.0],PARAMETER["Scale\_Factor",0.9996],PARAMETER["Latitude\_Of\_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26914]]

Reference system identifier

\* Value 26914

\* Codespace EPSG

\* Version 8.2.6

[*Hide Spatial Reference ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EEBGLA)

[Spatial Data Properties ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EAAGLA)

[Georectified Grid  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpE8AD.tmp.htm" \l "ID0ELADA)

\* Number of dimensions 2

Axis dimensions properties

Dimension type  column (x-axis)

\* Dimension size 44242

\* Resolution  33.324590 Meter

Axis dimensions properties

Dimension type  row (y-axis)

\* Dimension size 38351

\* Resolution  33.324590 Meter

\* Cell geometry  area

\* Point in pixel  center

\* Transformation parameters are available Yes

\* Check points are available No

Corner points

\* Point -381764.043951 2857626.403782

\* Point -381764.043951 4135657.740160

\* Point 1092582.449857 4135657.740160

\* Point 1092582.449857 2857626.403782

\* Center point 355409.202953 3496642.071971

[*Hide Georectified Grid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0ELADA)

[ArcGIS Raster Properties  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpE8AD.tmp.htm" \l "ID0EAGLA)

General Information

\* Pixel depth 8

\* Compression type RLE

\* Number of bands 1

\* Raster format GRID

\* Source type continuous

\* Pixel type unsigned integer

\* No data value 0

\* Has colormap No

\* Has pyramids Yes

[*Hide ArcGIS Raster Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EAGLA)

[*Hide Spatial Data Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EAAGLA)

[Spatial Data Content ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EBA)

Image Description

\* Type of information  physical measurement

Band information

\* Description Band\_1

\* Maximum value 90.000000

\* Minimum value 11.000000

\* Number of bits per value 8

[*Hide Spatial Data Content ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EBA)

[Geoprocessing history ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EDGLA)

Process

Process name Extract by Mask

Date 2015-02-04 11:49:47

Tool location c:\program files (x86)\arcgis\desktop10.2\ArcToolbox\Toolboxes\Spatial Analyst Tools.tbx\ExtractByMask

Command issued

ExtractByMask nlcd\_2011\_landcover\_2011\_edition\_2014\_10\_10.img "huc\_10\_watershed selection" E:\Geo4427\project\_gdb\LU\_2011rs

Include in lineage when exporting metadata No

[*Hide Geoprocessing history ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EDGLA)

[Distribution ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EHA)

Distribution format

\* Name Raster Dataset

[*Hide Distribution ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EHA)

[Fields ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0ECA)

[Details for object lulc2011.vat ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpE8AD.tmp.htm" \l "ID0EACA)

\* Type Table

\* Row count 14

[Field Rowid ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpE8AD.tmp.htm" \l "ID0ECACA)

\* Alias Rowid

\* Data type OID

\* Width 4

\* Precision 0

\* Scale 0

\* Field description

Internal feature number.

\* Description source

Esri

\* Description of values

Sequential unique whole numbers that are automatically generated.

[*Hide Field Rowid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0ECACA)

[Field VALUE ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpE8AD.tmp.htm" \l "ID0EBACA)

\* Alias VALUE

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field VALUE ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EBACA)

[Field COUNT ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpE8AD.tmp.htm" \l "ID0EAACA)

\* Alias COUNT

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field COUNT ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EAACA)

[*Hide Details for object lulc2011.vat ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0EACA)

[*Hide Fields ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0ECA)

[Metadata Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0TAKLA)

\* Metadata language English (UNITED STATES)

\* Metadata character set  utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata  \* dataset

Scope name  \* dataset

\* Last update 2015-05-04

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata ItemDescription

Created in ArcGIS for the item 2015-02-04 11:49:47

Last modified in ArcGIS for the item 2015-05-04 12:34:45

Automatic updates

Have been performed Yes

Last update 2015-05-04 12:34:45

[*Hide Metadata Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#ID0TAKLA)

[FGDC Metadata (read-only) ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#fgdcMetadata)

[Entities and Attributes ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#/metadata/eainfo//text()[1])

Detailed Description

Entity Type

Entity Type Label lulc2011.vat

Attribute

Attribute Label Rowid

Attribute Definition

Internal feature number.

Attribute Definition Source Esri

Attribute Domain Values

Unrepresentable Domain

Sequential unique whole numbers that are automatically generated.

Attribute

Attribute Label VALUE

Attribute

Attribute Label COUNT

[*Hide Entities and Attributes ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpE8AD.tmp.htm#/metadata/eainfo//text()[1])

change\_06\_11

Raster Dataset

Tags  
Hill Country Associates

Summary

To detect changes in land use and land cover between specific sets of years.

Description

Change detection of LU/LC data in the Pedernales between the years 2006-2011

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

Use limitations

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Extent

|  |  |  |  |
| --- | --- | --- | --- |
| West | -108.890415 | East | -92.328363 |
| North | 37.367645 | South | 25.572891 |

Scale Range

|  |  |
| --- | --- |
| Maximum (zoomed in) | 1:5,000 |
| Minimum (zoomed out) | 1:150,000,000 |

[ArcGIS Metadata ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#arcgisMetadata)

[Topics and Keywords ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#true)

\* Content type  Downloadable Data

[*Hide Topics and Keywords ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#true)

[Citation ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EHKA)

\* Title change\_06\_11

Presentation formats  \* digital map

[*Hide Citation ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EHKA)

[Resource Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EDCGLA)

Dataset languages  \* English (UNITED STATES)

Spatial representation type  \* grid

\* Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

ArcGIS item properties

\* Name change\_06\_11

\* Location file://E:\Geo4427\project\_gdb\change\_06\_11

\* Access protocol Local Area Network

[*Hide Resource Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EDCGLA)

[Extents ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EEACGLA)

Extent

Geographic extent

Bounding rectangle

Extent type  Extent used for searching

\* West longitude -108.890415

\* East longitude -92.328363

\* North latitude 37.367645

\* South latitude 25.572891

\* Extent contains the resource Yes

Extent in the item's coordinate system

\* West longitude -381764.043989

\* East longitude 1092582.449849

\* South latitude 2857626.403186

\* North latitude 4135657.739590

\* Extent contains the resource Yes

[*Hide Extents ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EEACGLA)

[Resource Constraints ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EAKA)

Constraints

Limitations of use

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[*Hide Resource Constraints ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EAKA)

[Spatial Reference ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EEBGLA)

ArcGIS coordinate system

\* Type Projected

\* Geographic coordinate reference GCS\_North\_American\_1983

\* Projection NAD\_1983\_UTM\_Zone\_14N

\* Coordinate reference details

Projected coordinate system

Well-known identifier 26914

X origin -5120900

Y origin -9998100

XY scale 450445547.3910538

Z origin -100000

Z scale 10000

M origin -100000

M scale 10000

XY tolerance 0.001

Z tolerance 0.001

M tolerance 0.001

High precision true

Latest well-known identifier 26914

Well-known text PROJCS["NAD\_1983\_UTM\_Zone\_14N",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse\_Mercator"],PARAMETER["False\_Easting",500000.0],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-99.0],PARAMETER["Scale\_Factor",0.9996],PARAMETER["Latitude\_Of\_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26914]]

Reference system identifier

\* Value 26914

\* Codespace EPSG

\* Version 8.2.6

[*Hide Spatial Reference ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EEBGLA)

[Spatial Data Properties ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EAAGLA)

[Georectified Grid  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpF5FE.tmp.htm" \l "ID0ELADA)

\* Number of dimensions 2

Axis dimensions properties

Dimension type  column (x-axis)

\* Dimension size 44242

\* Resolution  33.324590 Meter

Axis dimensions properties

Dimension type  row (y-axis)

\* Dimension size 38351

\* Resolution  33.324590 Meter

\* Cell geometry  area

\* Point in pixel  center

\* Transformation parameters are available Yes

\* Check points are available No

Corner points

\* Point -381764.043989 2857626.403186

\* Point -381764.043989 4135657.739590

\* Point 1092582.449849 4135657.739590

\* Point 1092582.449849 2857626.403186

\* Center point 355409.202930 3496642.071388

[*Hide Georectified Grid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0ELADA)

[ArcGIS Raster Properties  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpF5FE.tmp.htm" \l "ID0EAGLA)

General Information

\* Pixel depth 8

\* Compression type RLE

\* Number of bands 1

\* Raster format GRID

\* Source type continuous

\* Pixel type unsigned integer

\* No data value 0

\* Has colormap No

\* Has pyramids Yes

[*Hide ArcGIS Raster Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EAGLA)

[*Hide Spatial Data Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EAAGLA)

[Spatial Data Content ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EBA)

Image Description

\* Type of information  physical measurement

Band information

\* Description Band\_1

\* Maximum value 2.000000

\* Minimum value 1.000000

\* Number of bits per value 8

[*Hide Spatial Data Content ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EBA)

[Geoprocessing history ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EDGLA)

Process

Process name

Date 2015-03-02 11:47:24

Tool location c:\program files (x86)\arcgis\desktop10.2\ArcToolbox\Toolboxes\Spatial Analyst Tools.tbx\CellStatistics

Command issued

CellStatistics LU\_2011rs;LU\_2006rs E:\Geo4427\project\_gdb\CellSta\_06\_11 VARIETY DATA

Include in lineage when exporting metadata No

[*Hide Geoprocessing history ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EDGLA)

[Distribution ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EHA)

Distribution format

\* Name Raster Dataset

[*Hide Distribution ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EHA)

[Fields ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0ECA)

[Details for object change\_06\_11.vat ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpF5FE.tmp.htm" \l "ID0EACA)

\* Type Table

\* Row count 2

[Field Rowid ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpF5FE.tmp.htm" \l "ID0ECACA)

\* Alias Rowid

\* Data type OID

\* Width 4

\* Precision 0

\* Scale 0

\* Field description

Internal feature number.

\* Description source

Esri

\* Description of values

Sequential unique whole numbers that are automatically generated.

[*Hide Field Rowid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0ECACA)

[Field VALUE ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpF5FE.tmp.htm" \l "ID0EBACA)

\* Alias VALUE

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field VALUE ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EBACA)

[Field COUNT ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmpF5FE.tmp.htm" \l "ID0EAACA)

\* Alias COUNT

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field COUNT ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EAACA)

[*Hide Details for object change\_06\_11.vat ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0EACA)

[*Hide Fields ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0ECA)

[Metadata Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0TAKLA)

\* Metadata language English (UNITED STATES)

\* Metadata character set  utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata  \* dataset

Scope name  \* dataset

\* Last update 2015-05-04

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata FGDC

Created in ArcGIS for the item 2015-03-02 11:47:24

Last modified in ArcGIS for the item 2015-05-04 12:38:05

Automatic updates

Have been performed Yes

Last update 2015-05-04 12:37:39

[*Hide Metadata Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#ID0TAKLA)

[FGDC Metadata (read-only) ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#fgdcMetadata)

[Entities and Attributes ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#/metadata/eainfo//text()[1])

Detailed Description

Entity Type

Entity Type Label change\_06\_11.vat

Attribute

Attribute Label Rowid

Attribute Definition

Internal feature number.

Attribute Definition Source Esri

Attribute Domain Values

Unrepresentable Domain

Sequential unique whole numbers that are automatically generated.

Attribute

Attribute Label VALUE

Attribute

Attribute Label COUNT

[*Hide Entities and Attributes ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmpF5FE.tmp.htm#/metadata/eainfo//text()[1])

change\_01\_11

Raster Dataset

Tags  
Hill Country Associates

Summary

To detect changes in land use and land cover between specific sets of years.

Description

Change detection of LU/LC data in the Pedernales between the years 2001-2011

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

Use limitations

This data is for illustrative purposes. Hill Country Associates makes no warranties regarding this data accuracy or reliability and disclaims any and all liability associated with the use of this data. The user fully assumes the risk of use of this data.

Extent

|  |  |  |  |
| --- | --- | --- | --- |
| West | -108.890415 | East | -92.328363 |
| North | 37.367645 | South | 25.572891 |

Scale Range

|  |  |
| --- | --- |
| Maximum (zoomed in) | 1:5,000 |
| Minimum (zoomed out) | 1:150,000,000 |

[ArcGIS Metadata ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#arcgisMetadata)

[Topics and Keywords ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#true)

\* Content type  Downloadable Data

[*Hide Topics and Keywords ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#true)

[Citation ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EHKA)

\* Title change\_01\_11

Presentation formats  \* digital map

[*Hide Citation ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EHKA)

[Resource Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EDCGLA)

Dataset languages  \* English (UNITED STATES)

Spatial representation type  \* grid

\* Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

ArcGIS item properties

\* Name change\_01\_11

\* Location file://E:\Geo4427\project\_gdb\change\_01\_11

\* Access protocol Local Area Network

[*Hide Resource Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EDCGLA)

[Extents ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EEACGLA)

Extent

Geographic extent

Bounding rectangle

Extent type  Extent used for searching

\* West longitude -108.890415

\* East longitude -92.328363

\* North latitude 37.367645

\* South latitude 25.572891

\* Extent contains the resource Yes

Extent in the item's coordinate system

\* West longitude -381764.043989

\* East longitude 1092582.449849

\* South latitude 2857626.403186

\* North latitude 4135657.739590

\* Extent contains the resource Yes

[*Hide Extents ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EEACGLA)

[Resource Constraints ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EAKA)

Constraints

Limitations of use

This data is for illustrative purposes. Hill Country Associates makes no warranties regarding this data accuracy or reliability and disclaims any and all liability associated with the use of this data. The user fully assumes the risk of use of this data.

[*Hide Resource Constraints ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EAKA)

[Spatial Reference ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EEBGLA)

ArcGIS coordinate system

\* Type Projected

\* Geographic coordinate reference GCS\_North\_American\_1983

\* Projection NAD\_1983\_UTM\_Zone\_14N

\* Coordinate reference details

Projected coordinate system

Well-known identifier 26914

X origin -5120900

Y origin -9998100

XY scale 450445547.3910538

Z origin -100000

Z scale 10000

M origin -100000

M scale 10000

XY tolerance 0.001

Z tolerance 0.001

M tolerance 0.001

High precision true

Latest well-known identifier 26914

Well-known text PROJCS["NAD\_1983\_UTM\_Zone\_14N",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse\_Mercator"],PARAMETER["False\_Easting",500000.0],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-99.0],PARAMETER["Scale\_Factor",0.9996],PARAMETER["Latitude\_Of\_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26914]]

Reference system identifier

\* Value 26914

\* Codespace EPSG

\* Version 8.2.6

[*Hide Spatial Reference ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EEBGLA)

[Spatial Data Properties ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EAAGLA)

[Georectified Grid  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4C1B.tmp.htm" \l "ID0ELADA)

\* Number of dimensions 2

Axis dimensions properties

Dimension type  column (x-axis)

\* Dimension size 44242

\* Resolution  33.324590 Meter

Axis dimensions properties

Dimension type  row (y-axis)

\* Dimension size 38351

\* Resolution  33.324590 Meter

\* Cell geometry  area

\* Point in pixel  center

\* Transformation parameters are available Yes

\* Check points are available No

Corner points

\* Point -381764.043989 2857626.403186

\* Point -381764.043989 4135657.739590

\* Point 1092582.449849 4135657.739590

\* Point 1092582.449849 2857626.403186

\* Center point 355409.202930 3496642.071388

[*Hide Georectified Grid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0ELADA)

[ArcGIS Raster Properties  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4C1B.tmp.htm" \l "ID0EAGLA)

General Information

\* Pixel depth 8

\* Compression type RLE

\* Number of bands 1

\* Raster format GRID

\* Source type continuous

\* Pixel type unsigned integer

\* No data value 0

\* Has colormap No

\* Has pyramids Yes

[*Hide ArcGIS Raster Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EAGLA)

[*Hide Spatial Data Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EAAGLA)

[Spatial Data Content ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EBA)

Image Description

\* Type of information  physical measurement

Band information

\* Description Band\_1

\* Maximum value 2.000000

\* Minimum value 1.000000

\* Number of bits per value 8

[*Hide Spatial Data Content ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EBA)

[Distribution ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EHA)

Distribution format

\* Name Raster Dataset

[*Hide Distribution ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EHA)

[Fields ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0ECA)

[Details for object change\_01\_11.vat ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4C1B.tmp.htm" \l "ID0EACA)

\* Type Table

\* Row count 2

[Field Rowid ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4C1B.tmp.htm" \l "ID0ECACA)

\* Alias Rowid

\* Data type OID

\* Width 4

\* Precision 0

\* Scale 0

\* Field description

Internal feature number.

\* Description source

Esri

\* Description of values

Sequential unique whole numbers that are automatically generated.

[*Hide Field Rowid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0ECACA)

[Field VALUE ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4C1B.tmp.htm" \l "ID0EBACA)

\* Alias VALUE

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field VALUE ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EBACA)

[Field COUNT ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4C1B.tmp.htm" \l "ID0EAACA)

\* Alias COUNT

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field COUNT ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EAACA)

[*Hide Details for object change\_01\_11.vat ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0EACA)

[*Hide Fields ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0ECA)

[Metadata Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0TAKLA)

\* Metadata language English (UNITED STATES)

\* Metadata character set  utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata  \* dataset

Scope name  \* dataset

\* Last update 2015-05-04

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata FGDC

Created in ArcGIS for the item 2015-05-01 13:46:40

Last modified in ArcGIS for the item 2015-05-04 12:40:38

Automatic updates

Have been performed Yes

Last update 2015-05-04 12:39:12

[*Hide Metadata Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#ID0TAKLA)

[FGDC Metadata (read-only) ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#fgdcMetadata)

[Entities and Attributes ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#/metadata/eainfo//text()[1])

Detailed Description

Entity Type

Entity Type Label change\_01\_11.vat

Attribute

Attribute Label Rowid

Attribute Definition

Internal feature number.

Attribute Definition Source Esri

Attribute Domain Values

Unrepresentable Domain

Sequential unique whole numbers that are automatically generated.

Attribute

Attribute Label VALUE

Attribute

Attribute Label COUNT

[*Hide Entities and Attributes ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4C1B.tmp.htm#/metadata/eainfo//text()[1])

change\_01\_06

Raster Dataset

Tags  
Hill Country Associates

Summary

To detect changes in land use and land cover between specific sets of years.

Description

Change detection of LU/LC data in the Pedernales between the years 2001-2006

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

Use limitations

This data is for illustrative purposes. Hill Country Associates makes no warranties regarding this data accuracy or reliability and disclaims any and all liability associated with the use of this data. The user fully assumes the risk of use of this data.

Extent

|  |  |  |  |
| --- | --- | --- | --- |
| West | -108.890415 | East | -92.328363 |
| North | 37.367645 | South | 25.572891 |

Scale Range

|  |  |
| --- | --- |
| Maximum (zoomed in) | 1:5,000 |
| Minimum (zoomed out) | 1:150,000,000 |

[ArcGIS Metadata ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#arcgisMetadata)

[Topics and Keywords ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#true)

\* Content type  Downloadable Data

[*Hide Topics and Keywords ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#true)

[Citation ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EHKA)

\* Title change\_01\_06

Presentation formats  \* digital map

[*Hide Citation ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EHKA)

[Resource Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EDCGLA)

Dataset languages  \* English (UNITED STATES)

Spatial representation type  \* grid

\* Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

Credits

Multi-Resolution Land Characteristics Consortium (MRLC) and TNRIS for the original NLCD and Watersheds files.

ArcGIS item properties

\* Name change\_01\_06

\* Location file://E:\Geo4427\project\_gdb\change\_01\_06

\* Access protocol Local Area Network

[*Hide Resource Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EDCGLA)

[Extents ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EEACGLA)

Extent

Geographic extent

Bounding rectangle

Extent type  Extent used for searching

\* West longitude -108.890415

\* East longitude -92.328363

\* North latitude 37.367645

\* South latitude 25.572891

\* Extent contains the resource Yes

Extent in the item's coordinate system

\* West longitude -381764.043989

\* East longitude 1092582.449849

\* South latitude 2857626.403186

\* North latitude 4135657.739590

\* Extent contains the resource Yes

[*Hide Extents ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EEACGLA)

[Resource Constraints ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EAKA)

Constraints

Limitations of use

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[*Hide Resource Constraints ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EAKA)

[Spatial Reference ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EEBGLA)

ArcGIS coordinate system

\* Type Projected

\* Geographic coordinate reference GCS\_North\_American\_1983

\* Projection NAD\_1983\_UTM\_Zone\_14N

\* Coordinate reference details

Projected coordinate system

Well-known identifier 26914

X origin -5120900

Y origin -9998100

XY scale 450445547.3910538

Z origin -100000

Z scale 10000

M origin -100000

M scale 10000

XY tolerance 0.001

Z tolerance 0.001

M tolerance 0.001

High precision true

Latest well-known identifier 26914

Well-known text PROJCS["NAD\_1983\_UTM\_Zone\_14N",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse\_Mercator"],PARAMETER["False\_Easting",500000.0],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-99.0],PARAMETER["Scale\_Factor",0.9996],PARAMETER["Latitude\_Of\_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26914]]

Reference system identifier

\* Value 26914

\* Codespace EPSG

\* Version 8.2.6

[*Hide Spatial Reference ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EEBGLA)

[Spatial Data Properties ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EAAGLA)

[Georectified Grid  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4099.tmp.htm" \l "ID0ELADA)

\* Number of dimensions 2

Axis dimensions properties

Dimension type  column (x-axis)

\* Dimension size 44242

\* Resolution  33.324590 Meter

Axis dimensions properties

Dimension type  row (y-axis)

\* Dimension size 38351

\* Resolution  33.324590 Meter

\* Cell geometry  area

\* Point in pixel  center

\* Transformation parameters are available Yes

\* Check points are available No

Corner points

\* Point -381764.043989 2857626.403186

\* Point -381764.043989 4135657.739590

\* Point 1092582.449849 4135657.739590

\* Point 1092582.449849 2857626.403186

\* Center point 355409.202930 3496642.071388

[*Hide Georectified Grid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0ELADA)

[ArcGIS Raster Properties  ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4099.tmp.htm" \l "ID0EAGLA)

General Information

\* Pixel depth 8

\* Compression type RLE

\* Number of bands 1

\* Raster format GRID

\* Source type continuous

\* Pixel type unsigned integer

\* No data value 0

\* Has colormap No

\* Has pyramids Yes

[*Hide ArcGIS Raster Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EAGLA)

[*Hide Spatial Data Properties ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EAAGLA)

[Spatial Data Content ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EBA)

Image Description

\* Type of information  physical measurement

Band information

\* Description Band\_1

\* Maximum value 2.000000

\* Minimum value 1.000000

\* Number of bits per value 8

[*Hide Spatial Data Content ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EBA)

[Distribution ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EHA)

Distribution format

\* Name Raster Dataset

[*Hide Distribution ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EHA)

[Fields ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0ECA)

[Details for object change\_01\_06.vat ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4099.tmp.htm" \l "ID0EACA)

\* Type Table

\* Row count 2

[Field Rowid ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4099.tmp.htm" \l "ID0ECACA)

\* Alias Rowid

\* Data type OID

\* Width 4

\* Precision 0

\* Scale 0

\* Field description

Internal feature number.

\* Description source

Esri

\* Description of values

Sequential unique whole numbers that are automatically generated.

[*Hide Field Rowid ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0ECACA)

[Field VALUE ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4099.tmp.htm" \l "ID0EBACA)

\* Alias VALUE

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field VALUE ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EBACA)

[Field COUNT ▼►](file:///C:\\Users\\ps1170\\AppData\\Local\\Temp\\arc8769\\tmp4099.tmp.htm" \l "ID0EAACA)

\* Alias COUNT

\* Data type Integer

\* Width 4

\* Precision 0

\* Scale 0

[*Hide Field COUNT ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EAACA)

[*Hide Details for object change\_01\_06.vat ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0EACA)

[*Hide Fields ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0ECA)

[Metadata Details ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0TAKLA)

\* Metadata language English (UNITED STATES)

\* Metadata character set  utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata  \* dataset

Scope name  \* dataset

\* Last update 2015-05-04

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata FGDC

Created in ArcGIS for the item 2015-05-01 13:49:37

Last modified in ArcGIS for the item 2015-05-04 12:42:46

Automatic updates

Have been performed Yes

Last update 2015-05-04 12:41:54

[*Hide Metadata Details ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#ID0TAKLA)

[FGDC Metadata (read-only) ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#fgdcMetadata)

[Entities and Attributes ▼►](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#/metadata/eainfo//text()[1])

Detailed Description

Entity Type

Entity Type Label change\_01\_06.vat

Attribute

Attribute Label Rowid

Attribute Definition

Internal feature number.

Attribute Definition Source Esri

Attribute Domain Values

Unrepresentable Domain

Sequential unique whole numbers that are automatically generated.

Attribute

Attribute Label VALUE

Attribute

Attribute Label COUNT

[*Hide Entities and Attributes ▲*](file:///C:\Users\ps1170\AppData\Local\Temp\arc8769\tmp4099.tmp.htm#/metadata/eainfo//text()[1])