Texas State (San Marcos) Campus Map Visualization, c. 1900-2015

FINAL REPORT



Submitted By:



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# 1 Introduction

In September of 2015, the Texas State University Archives contracted with N*motion* GIS (N*motion*) to conduct a map visualization project of Texas State University San Marcos campus. The overall goal of this project was to produce a video showing how the campus has changed from c. 1900 to 2015. In order to accomplish this, N*motion* utilized spatial data, historic photographs, and other archival information to produce a brief video documenting the changes to the university over the past 116 years as well as an interactive web map that provided information regarding the construction and demolition date of buildings on campus. Additionally, N*motion* conducted a statistical analysis of historic student population data to determine if there was a correlation between student enrollment and campus size.

## 1.1 Purpose

Texas State University was founded in 1899 in San Marcos. Originally named Southwest Texas Normal School, its primary mission was to educate people to become teachers. Over the next 116 years, the university steadily grew from a small teachers college of 303 students to a major research university with an enrollment of more than 30,000. During that time the university’s campus has changed dramatically, the physical boundaries of campus have expanded and numerous buildings have been constructed and demolished. To date, there has not been any organized effort to examine the history of the university and clearly document how it has grown in terms of its spatial characteristics, and to that end link the history of the university to changes to its campus layout and size. Therefore, the major goal of N*motion’s* project is to tell the story of university through spatial data.

## 1.2 Scope

The project is focused on Texas State University’s main campus in San Marcos. In addition to the spatial scope of the project, there is a temporal component focused on documenting the changes to the campus from c. 1900 to 2015.

# 2  Data

The client mostly provided data for the project. In conjunction with the Facilities Office, the University Archives provided nearly 20 gigabytes of data. Included in this data set were shapefiles of structure footprints and campus outlines by decade, numerous historic images and maps of campus, as well as various aerial views of the university.

## 2.1 Primary and Secondary Data Collection

Primary data collection focused on adding attribute information regarding the construction and demolition date of every building indicated in the provided data. The dates for this information came from a variety of sources. Buildings that are 50 years old and still standing are listed in historic resources inventory of campus that was produced by the university in August of 2014. The list of historic-age buildings was submitted to the Texas Historical Commission (THC) in fulfillment of the university’s obligation to Section 31.153ld of Texas Natural Resources Code.

There were several instances where we were unable to identify the exact construction or demolition date of buildings within the data. In these cases, N*motion* estimated the approximate date of construction/demolition by determining the decade in which the building appears in the provided spatial data and when it disappears from the data. In these instances we noted in attribute information that the dates were estimated.

## 2.2 Issues with Data

The University Archives provided us with 20 gigabytes of data that included shapefiles of buildings, property boundaries, photographs, and historical maps. By the mere size of the files, sharing it with all team members was not as simple as sharing it through flash drives. As such a central repository of the data was established on the university’s servers; this allowed access to the data by all the members of the team.

As we began to sort through the data, we found many of the building polygons were not labeled. This presented a time consuming process to where each individual building had to not only be geospatially located, but the corresponding time period of its creation and/or demolition had to be found. This process included searching through many of the historical maps presented to us by The University Archives. Although a majority of the structures were identified, there were a significant amount of other structures that could not be identified. Any structure that was not identified was assigned, Unknown, for its attribute name. During the identifying process we realized that there were three other significant problems that needed to be addressed: attribute names used for multiple structures, building name changes, and current structures that have not been digitized.

Most of the structures that share attribute names include garages, water towers, apartments, houses, and additions. Garages started to appear in the 40’s but with significant growth of the university and the recurring construction techniques of building new structures to replace older ones, there are a significant amount of garages that should be specifically named with their own attribute. The information from specific garages and their capacity attributes can be beneficial for future analysis by the Parking Services of Texas State University. For the most part, the rest of the structures have since been demolished. For the sake of accuracy and organization, an attempt should be made to give each structure its own identity.

Along with unidentified structures, there are several known buildings that are still standing that have not been digitized. Table 1 shows a list of structures that need to be digitized.

**Table 1.** Structures omitted from the data set that require digitization.

|  |  |  |
| --- | --- | --- |
| **Structure Name** | **Year Constructed** | **Address** |
| Nueces Hall | 1962 | 615 N LBJ |
| Lantana Hall | 1962 | 501 N Edward Gary St. |
| Frio aka William and Elizabeth ROTC | 1964 | 101 Leuders St. |
| Butler Hall | 1965 | 500 N. Edward Gary St. |
| Sterry Hall | 1967 | 215 University Dr. |
| San Saba Hall | 1963 | 801 Moore St. |
| The President’s House | 1966 | 800 Academy St. |

The President’s House is a good example of a building that has been renamed and/or changed locations with The Hill House. With the constant construction and growth rate of Texas State University, it is recommended that all structures are digitized for the benefit of current and future engineering projects or analysis.

The data for Aquarena Springs presented its own set of issues because of property ownership changes. The Aquarena Springs Hotel, originally called The Spring Lake Hotel, was built in 1929. In the late 40’s, under the estate of Paul Rogers, the hotel became apart of Aquarena Springs and was renamed The Aquarena Springs Hotel. Over the next several decades, before the resort was purchased in 1994 by Southwest Texas University (now Texas State University), many structures were added to the property. Then in 2006, the hotel was remodeled and reopened as the Texas Rivers Center, now apart of The Meadows Center. So the issue that presented itself is the fact that in the shapefile of 2000, you have an entire section added to the data representing Aquarena Springs. Since Aquarena Springs had significant growth prior to the university purchase, the data isn’t complete and difficult to obtain. Furthermore, when Aquarena Springs was changed to The Meadows Center in 2006, we now needed an entirely new set of shapefiles with different attribute names for 2010. An effort should be attempted to re-digitize all of The Meadows Center to its current status.

Working with Story Maps was a new experience for N*motion*. We used ESRI’s online account to develop the story map. The first ESRI account used for researching Story Maps was a basic, free user account. During this time, when ran into issues with not being able to simply upload shapefiles to the story maps. Story Maps only use published photographs and maps. So an alternate social media account had to be used for uploading and publishing photos and maps. Flickr was chosen as our social media publishing software for its free access through a Yahoo account. Once we understood the process of adding photos and maps to our Story Maps, we had a limitation issue with presenting popups, which was a specific feature requested. As it turned out, our project leader had an Enterprise ESRI account that offered significantly more options and tools, including popups, available to N*motion* for working with Story Maps.

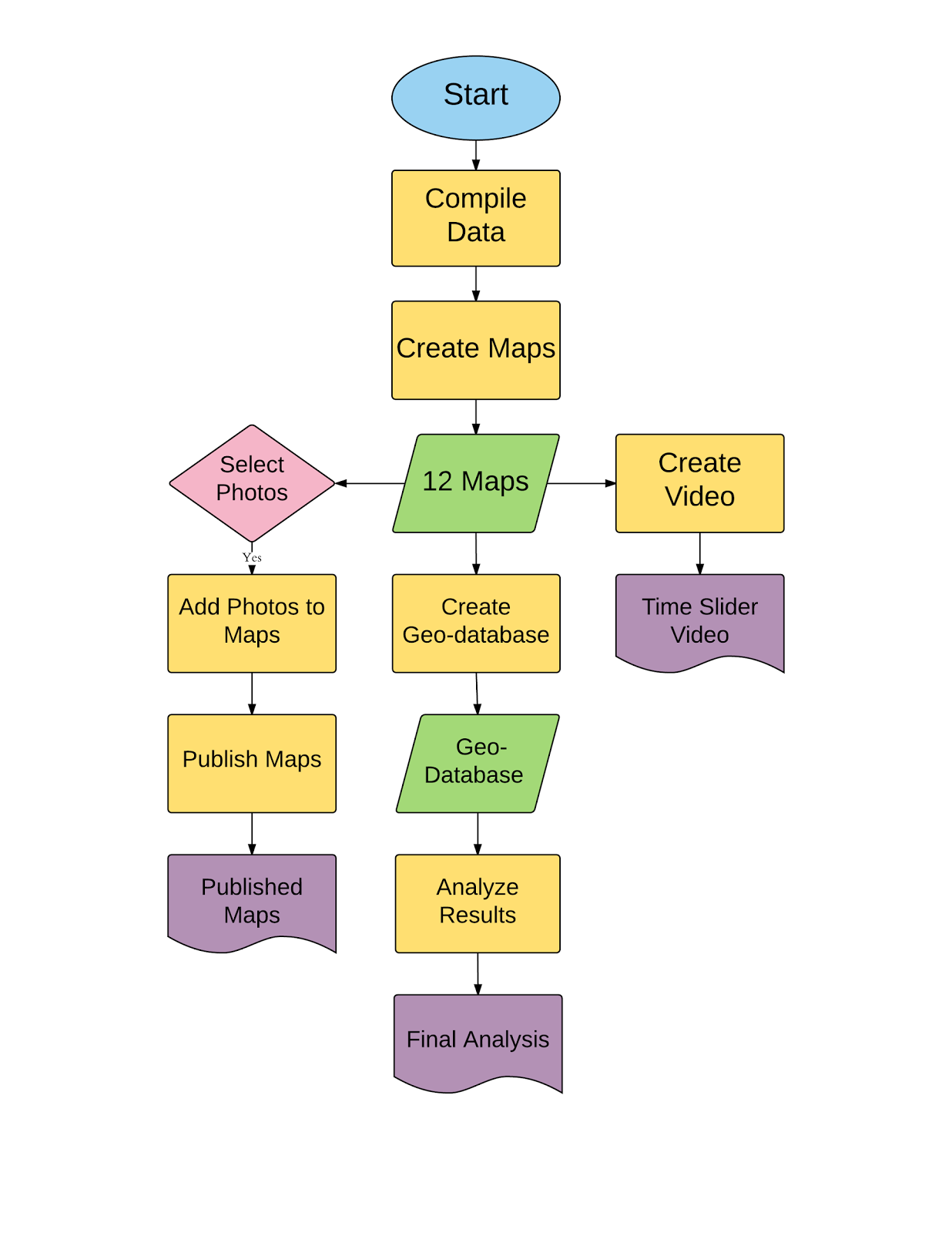
While editing the metadata for both the structure and boundary shapefiles, we ran into a problem with assigning a description to the Lineage section under Resources. The Lineage section is designed to give a description of any geoprocessing techniques that might have been used within the data. Since the structure and boundary shapefiles were already geographically located and the data was purely used for a time line referencing map, geoprocessing techniques were not used. In order to clarify this, within  the statement section under Lineage, an attempt was made to describe why there were not any new data sources or data processing steps. When any text, including “N/A”, was used in the statement box, an error occurred in the Quality section under Resources in the metadata. Several attempts and techniques were used to bypass the bug, with no success. All other sections among both datasets have been described and completed.

# 3 Methods

The project is divided up into four main deliverables:

* a video showing the spatial changes to campus from 1900 to 2015
* an interactive web map with pop-up similarly documenting the changes to campus
* a statistical analysis of student enrollment and campus size
* supporting data used/created for the project.

Our deliverables can generally be expressed as a flow chart that outlines the major steps and processes required to produce our final deliverables (Figure 1).



**Figure 1.** General flow chart outline major project processes and outputs

## 3.1 Time Slider Function Analysis

In order to develop a video that documents changes to campus over the past 116 years, N*Motion* leveraged the ArcGIS “Time Slider” function. This function enables temporal data to be expressed spatially. During the data collection phase, construction and demolition dates added to the attribute tables of the provided building shapefies. Enabling time for the layer involves identifying columns in the attribute table that contain start and end dates, in this case construction and demolition dates. Once enabled, the interactive “Time Slider” function allows you to navigate through time through a slider bar, essentially turning on and off features according to their attributes. The tool also allows for the time-enabled data to be exported in sequence as a video (ESRI.com n.d.)[[1]](#footnote-1).

## 3.2 Web Development

With the advent of both repositories of a historic maps and the ability to distribute map data across the Internet, the next logical step in historic mapping has been to use the Internet to explore the historic a specific location through historic maps and web mapping. ESRI, the manufacturers of the GIS program ArcGIS, have developed a web platform called “Story Maps” which allows people to easily create a dynamic mapping environment aimed at telling a story through spatial data (arcgis.com n.d.)[[2]](#footnote-2).

Using Story Maps interactive development tools, a website[[3]](#footnote-3) was constructed using a template that allowed for multiple tabs. Each tab would contain a web map representing a decade in the university's history. ESRI’s Story Maps maps pulls maps that have been created in ArcGIS Online. Settings for each map service such as feature colors, transparency, pop-ups are managed in ArcGIS online before being inserted in the story map. These maps are then shared publically to be accessed by Story Maps.

In Story Maps, photographs are hosted on social media, such as Flickr, Facebook, or Picassa, and then linked to the map’s sidebar. In particular, images that showed aerial views of campus were chosen as a way to provide context to information presented in the web map. Additional, information regarding campus size, student enrollment, and major events for each decade was added to place the spatial information in a historic context

Story Maps is also easily accessible through web browsers on most iOS or Android mobile devices. As such, N*motion* enabled our Story Map to leverage the GPS chip embedded in most mobile phones and tablets. Using a mobile device, a user can zoom to their location on campus and see what buildings were present at their location during a given decade. They can additionally enter a street address and zoom to that location on the map. Finally, the web mapped produced using the “Time Slider” function was uploaded to YouTube and embedded in a tab of the Story Map.

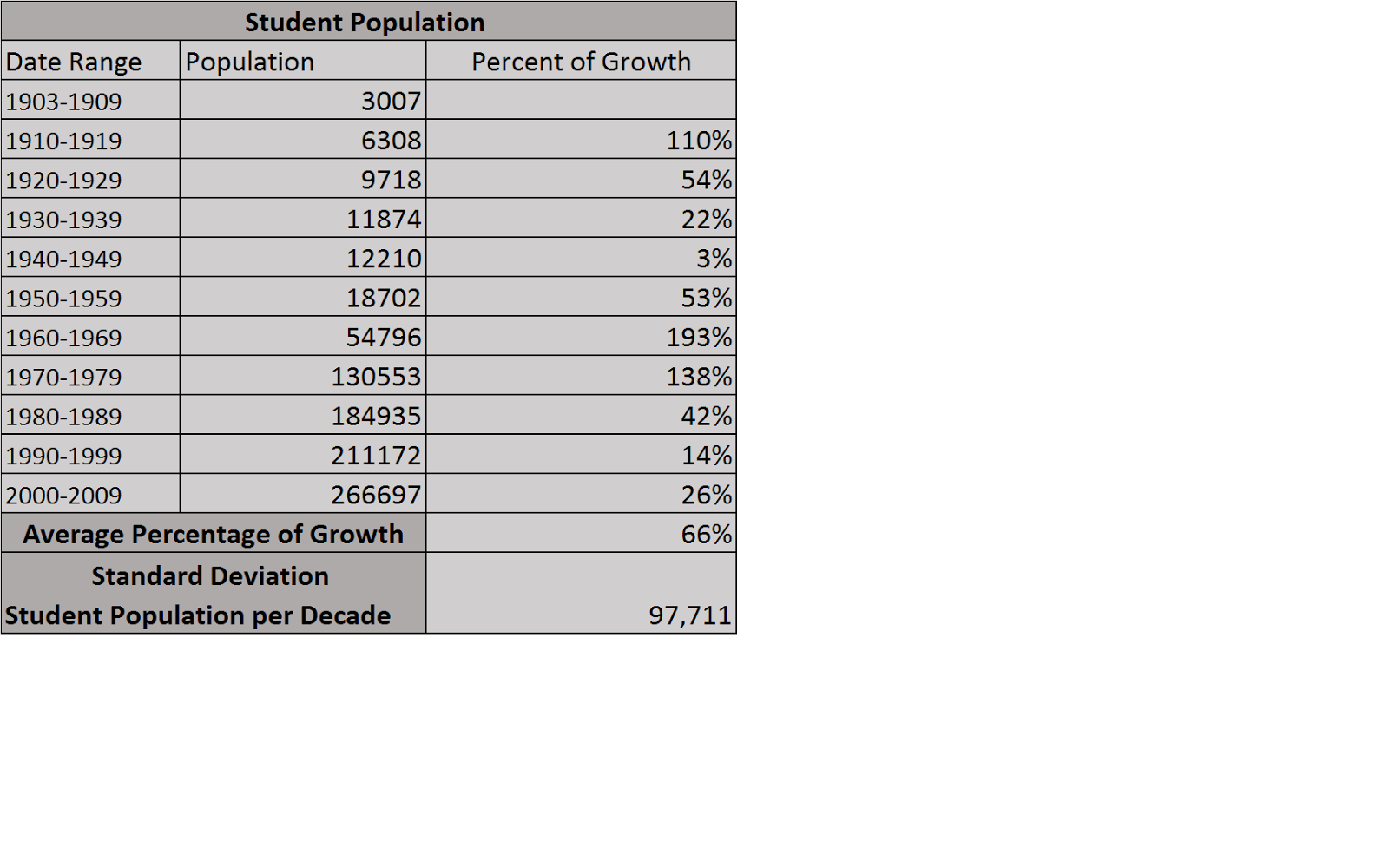
## 3.3 Statistical Analysis Methodology

N*motion* performed significance testing to determine the relationship between student population and property acquisition. The significance testing compared the student populations and land acquisitions from 1903 to 2009. These data ranges were used due to student population records ending in 2009 from the Institutional Research at Texas State University in 2013 (Archives 2013).

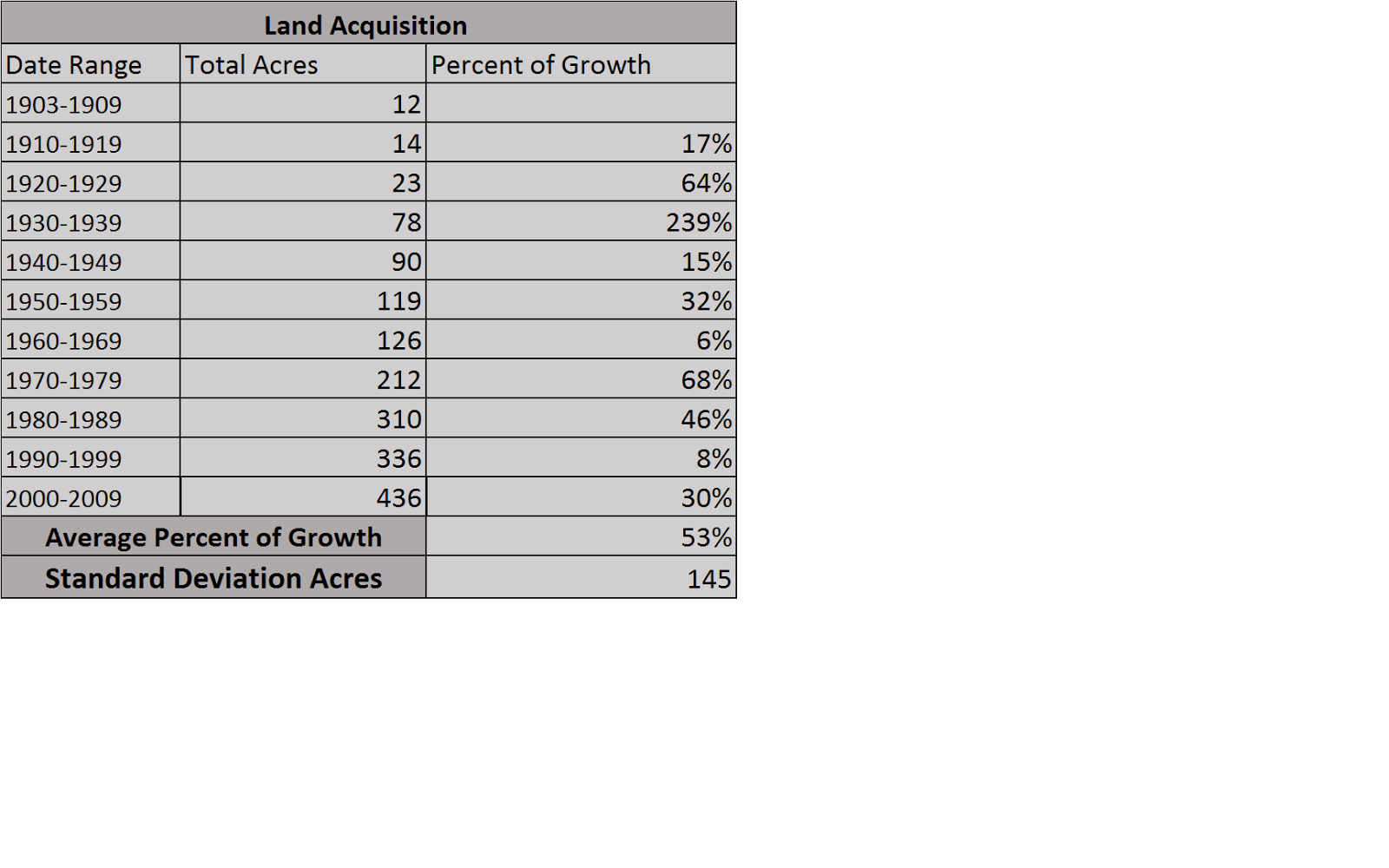
The null hypothesis for significance testing was employed to determine no relationship between the student population and land acquisition. This correlation testing included the total acres acquired from 1903 to 2009 by decade with the exception of the first decade group of only seven years. The remaining date ranges are a full decades from 1910 to 2009 respectively. The correlation testing was determined by using the Pearson’s R test for correlation analysis. In addition to correlation analysis, standard deviations were also calculated.

A percentage of growth calculation was performed on both the student populations and land acquisitions by decade. Subtracting the second decade total from the first decade total derived the percentage of growth calculation, and dividing that value by the absolute value multiplied by the first decade; the product is then multiplied by 100 to create a percentage. The following formula illustrates the calculation where X2 represents the second decade, X1 represents the first decade, and ABS is the absolute value multiplied by 100 or  (X2-X1)/ABS(X1)\* 100. The preceding table elements for growth percentage calculations reads as follows: the first decade block is empty showing no growth rate, the next block under it shows the growth rate comparison of the first or upper decade block and preceding block. For example, the first decade block of the student population table is 1903-1909 and this is compared to the next decade block down 1910-1919. The growth rates are calculated using the growth rate formula stated above and the growth rate for these two-decade blocks is 110 percent.  Moreover, a total average percent of growth was calculated for the entire sample date range by averaging the total percentage growth of each decade. Tables 2 and 3 present the data for student populations and land acquisitions by decade. In addition to the data per decade, these tables contain percentage growth rates for each decade, a total average percentage growth rate, and the standard deviation. A detailed analysis is discussed in the preceding paragraphs.

**Table 2.** Average student population per decade from 1903 to 1909



**Table 3.** Land acquisition (in acres) per decade for Texas State University’s San Marcos Campus



# 4 Results and Discussion

In the 116 years since the founding of the university main campus in San Marcos, Texas has grown from approximately 12 acres to 478 acres, an increase of 3,883 percent. In that same time enrollment of at university has increased from 303 students in 1899 to 35,568 students in 2015, an increase of 11,639 percent.  The changes to university landscape are a direct result of the increased enrollment of students over time. Increases and decreases in enrollment can also be linked to major events in American history. For example, during the United States’ involvement in World War I in (1917-1919) student enrollment decreased from a high of 818 in 1917 to a low of 303 in 1919. Again during World War II (1941-1945), the student population decreased from a high of 1,219 in 1941 to a low of 509 in 1944. However, following both wars, student enrollment returned to pre-war levels.

In contrast to shrinking levels of enrolment during times of national crisis, significant increases to student enrollment can be seen following periods of stability and national growth. For example, the signing of the Higher Education Act of 1965 by Lyndon Johnson was followed by significant increases in enrollment and expansion of campus. The High Education Act, which was signed by Johnson at Texas State University (his *alma mater*), made college accessible to a wider range of people through the establishment of student loans and grants, thus allowing people who had previously been unable to afford college to enroll.

In examining the relationship between student population and historical events, N*motion* conducted statistical analysis on the spatial data collected during the course of the project. The aim of the analysis was to identify a statistical link between campus size and student population during the 116 years of Texas State’s history.

## 4.1 Statistical Analysis

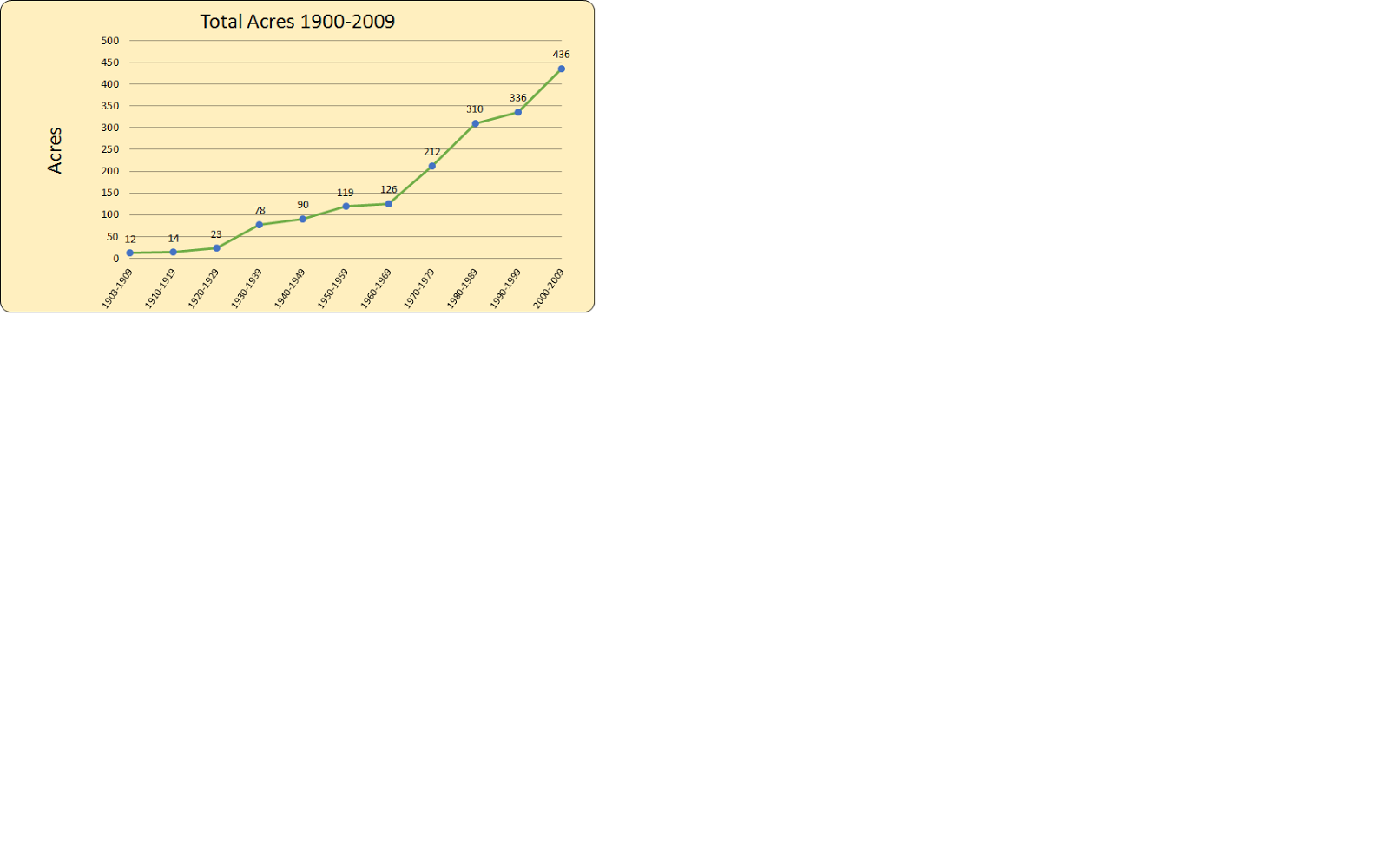
N*motion* performed a statistical analysis on the student populations and land acquisitions from 1903 to 2009 to illustrate their relationship. The scope of this analysis was performed to determine the relationship between student populations and land acquisitions by decade. The results of this analysis will determine the validity of the null hypothesis of no correlation between these two data sets. Percentage growth rates of each decade were calculated for both student populations and land acquisitions. In addition to percentage growth by decade, a total average percentage growth from all decades was calculated.

The student population of Texas State University has increased from 3,007 students to 266,697 between the years 1903 to 2009 (Archives 2013). This population growth rate is an 8,869 percent increase in 106 years. The greatest percentage of increased growth rate is between the decades of 1950-1959 to 1960-1969 with a percentage growth rate of 193 percent. Population growth increased during this time period due to the rise in the middle class of American society and the increase of expendable wealth distribution that is associated with a strong middle class. The lowest percentage growth rates are from the 1930-1939 to 1949-1949 decade with a percentage growth rate of only 3 percent. This drastic decrease is in part due to the deployment of soldiers during World War II and the lingering economic effects of the 1930s Great Depression. The average percentage growth rate for sampled decades of student populations is 66 percent (Figure 2).



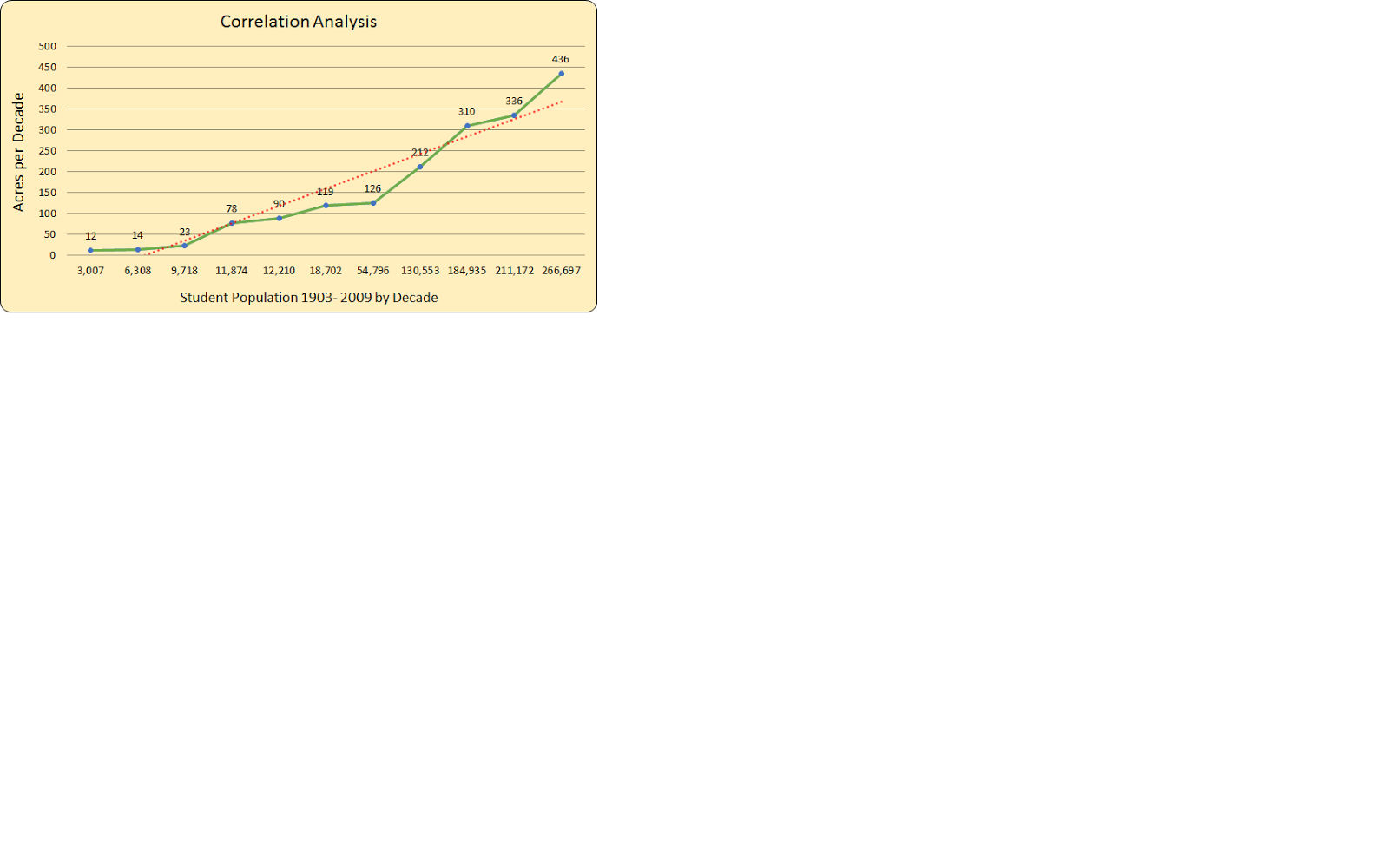
**Figure 2.** Average student population per decade (1903-2009)

The land acquisition growth of Texas State University from 1903 to 2009 tells a similar story as the student population growth. The university started with 12 acres of land in 1903-1909 and ended with 436 acres by the decade of 2000-2009 (Archives 2013). The greatest percentage of land growth between decades is from 1920-1929 to 1930-1939 at 239 percent. This is in stark contrast to the population growth of only 22 percent for the same decade blocks. The reasons for this large increase are unknown and warrant further investigation. Moreover, the lowest increase in land acquisition is from 1950-1959 to 1960-1969 with an increase of 6 percent. This lower growth period is also in stark contrast to the population increase of 193 percent for the same compared decade blocks of population. The average growth rate of land acquisition from 1903-2009 is 53 percent. Figure 3 illustrates the land acquisition from 1903-2009.



**Figure 3.** Land acquisition from 1900 to 2009

A correlation analysis was also performed to test the relationship of population growth and land acquisition. This analysis tested for the null hypothesis of no relationship between student population and land acquisition. This was accomplished by the calculation of Pearson’s R to determine the relationship of these two sample data sets. A 0.98 result after calculating Pearson’s R is a very strong relationship with a value of 1 being the strongest relationship possible. This result indicates that the correlation of student population and land acquisition is very strong. Therefore, the null hypothesis of no relationship between student population and land acquisition is rejected. As student populations grow, the amount of land acquisition grows with a very strong relationship. Figure 4 illustrates the correlation between student population and land acquisition from 1903-2009.



**Figure 4.** Correlation analysis

# 5 Further research

This project can be used as a stepping-stone for future projects that can utilize and expand on the work completed to date. Below presents some further avenues of research that might be of interest to the University Archives.

## 5.1 Suggested future research

For example, the current story map could be refined through the completion of more accurate datasets to better represent the buildings on Texas State University’s campus. Further exploration into the unknown building polygons could yield a more detailed dataset. Locations that are in need of further study are the Aquarena Springs/Meadow Center area and parts of West campus.

Currently, the story map has historical facts, student populations, and building locations with construction and demolition dates. Texas State University has a rich history that could be further represented. Further exploration into Texas State University’s history would make the user experience with the application more fulfilling. This could be done by researching into each individual building’s history and into Texas State University’s history as a whole. Further research into the following areas would be a good start.

* Individual Building’s History
  + Users of the story map may find the history of certain buildings interesting. Many of the buildings on campus have changed names or have been used in different applications over time.
* Aquarena Springs and Meadow Center
  + The Aquarena Springs area could be further examined as it has a history of being one of the oldest continuously occupied areas in North America. This area also has relatively recent history of being used as a theme park.
* Sewell Park
  + The area of the San Marcos River that flows through Sewell Park was channeled and deviated from the original location to the current location. Further research could be done to show a spatial representation of the original water flow along with historical information about the park itself.
* Buildings built after 2010
  + Texas State University is currently in a stage of rapid growth and development. The shapefiles we were given do not include many buildings built after 2010. We feel an effort to digitize these new building would better represent the current Texas State University.
* Building Footprints
  + The Archives Department at Texas State University have expressed the need for building footprints to be added to the story map and web maps. The purpose of these building footprints will show the changing locations of building construction through time and increase the visualization of campus change.
* Geofencing and Smartphone Voice Campus Tour Application
  + A voice smartphone application of geofenced buildings would enhance the campus touring experience, and allow Texas State University to conduct campus tours at any time without the need for guides. Especially for future students, parents, past students, and general inquiries of Texas State University Campus that are unable to attend scheduled tours.
* Statistical Analysis
  + A continued analysis of Texas State University student population and land acquisition with a complete up to date data set should be considered. The normalization of the data sets would also enhance the statistical analysis. Moreover, detailed historical research into the reasons for land acquisitions for decades that have lower than normal student population increases will deepen the analysis of campus growth.

Currently on the ESRI Story Maps page that was created, there is a feature that allows users to geolocate themselves on campus with the use of a cellular device. This allows for someone who has accessed the map on a cellular device to see precisely where they are on campus and what building is located closest to them. One limitation to the current system is that users will have to be provided with the link to the map and enter it into their cellular device’s web browser to utilize the map’s resources. The creation of a web based application would allow for anyone with a cellular device to quickly download the application instead of the current method of searching for the story map in a link. Furthermore, with the development of a web-based application, future developers could create a building search bar that would allow users to quickly find a certain building. We feel that the creation of a web-based application could enhance the versatility and usability of the story map that we have developed.

# 6 Conclusions

N*motion* partnered with the Texas State University Archives to create a map visualization of the changes to Texas State’s San Marcos campus from c. 1900 to 2015. There were two main objectives for this project:

* Produce a video using ArcGIS’ Time Slider function showing the changes to campus over time
* Develop an interactive web map that featured pop-menus also documenting the changes to campus

The web map and video can be accessed via any Internet browser or mobile device[[4]](#footnote-4). In addition, to these two tasks, N*Motion* also conducted a statistical analysis of average student population and campus size during the history of the university. It was determined that there is statistical relationship between student population and land acquisition by the university, suggesting that the growth of campus can be attributed to changes in student enrollment. Ultimately, the goal of this project was to create a final product that can be utilized by students and researches alike to explore the history of Texas State University through spatial data.

# 7 References

ESRI arcgis.com. http://storymaps.arcgis.com/ (Accessed November 27, 2015).

ESRI. Using the Time Slider Tool. http://resources.arcgis.com/EN/HELP/MAIN/10.2/index.html#//00s50000001q000000 (Acccessed November 27, 2015).

Archives, Texas State Univesity. "Institutional Research Mini Fact Books/Print." San Marcos, Texas: Texas State University Archives, 2 12, 2013.

# Appendix I: Group Members Contribution

**Christian Hartnett** acted as project manager for the project. His contributions to the project included helping with data collection, creating the time enabled video, and creating the interactive web map. For this report he contributed to the following sections Introduction, Methodology, Results, and Conclusion.

**Johnnie German** acted as a GIS analyst for the duration of the project. His contributions to the project included data collection, statistical analysis, research at the University library and archives. For this report he contributed to the following sections Methodology and Results.

**Corby Schaub** acted as a GIS analyst for the duration of the project. His contributions to the project included collection and assessment of the data and helping with the web development. His contributions to the report include the following sections: Data Collation and Issues with the Data.

**Dylan Epley** acted as a GIS analyst for the duration of the project. His contributions to the project included collection and assessment of the data and helping with the web development. His contributions to the report include the following sections: Further Research.

# Appendix II: Metadata

**Building Structures of Texas State University**

Shapefile

Tags

There are no tags for this item.

Summary

The purpose of the data is to represent building structures using polygons in a vector format for the Texas State University Campus.

Description

The area of focus is the Texas State University Campus in San Marcos, TX. The data contains all polygons of buildings from 1896 to 2012. Attribute data fields include: FID, Shape, Name, Build\_Date, Demo\_Date, and Comments. The polygons were then divided into 10 interval to show the progression and growth of Texas State University.

Credits

N*motion* GIS. Team members include: Christian Hartnett, Johnnie German, Dylan Epley, and Corby Schaub.

Use limitations

There are no access and use limitations for this item.

Extent

|  |  |  |  |
| --- | --- | --- | --- |
| West | -97.955448 | East | -97.921099 |
| North | 29.897491 | South | 29.883519 |

Scale Range

|  |  |
| --- | --- |
| Maximum (zoomed in) | 1:5,000 |
| Minimum (zoomed out) | 1:50,000 |

**ArcGIS Metadata ▼►**

**Topics and Keywords  ▼►**

Themes or categories of the resource  location, structure

Content type  Map Files

Export to FGDC CSDGM XML format as Resource Description No

Hide Topics and Keywords ▲

**Citation  ▼►**

Title Building Structures of Texas State University

Alternate titles  TxState\_Structures

Creation date 2015-11-16 00:00:00

Publication date 2015-11-30 00:00:00

Presentation formats  \* digital map

FGDC geospatial presentation format  map

ISBN N/A

ISSN N/A

Hide Citation ▲

**Citation Contacts  ▼►**

Responsible party

Individual's name Corby Schaub

Organization's name  Nmotion GIS

Contact's role  originator

Hide Citation Contacts ▲

**Resource Details  ▼►**

Dataset languages  \* English (UNITED STATES)

Dataset character set  utf8 - 8 bit UCS Transfer Format

Status  completed

Spatial representation type  \* vector

\* Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; ESRIArcGIS 10.3.1.4959

Credits

Nmotion GIS. Team members include: Christian Hartnett, Johnnie German, Dylan Epley, and Corby Schaub.

ArcGIS item properties

\* Name TxState\_Structures

\* Size 0.125

\* Location file://\\TAG316046\E\Texas State\Fall 2015\GIS 4427\Metadata\TxState\_Structures.shp

\* Access protocol Local Area Network

Hide Resource Details ▲

**Extents  ▼►**

Extent

Description

Texas State University Campus in San Marcos, Texas.

Geographic extent

Bounding rectangle

Extent type  Extent used for searching

\* West longitude -97.955448

\* East longitude -97.921099

\* North latitude 29.897491

\* South latitude 29.883519

\* Extent contains the resource Yes

Temporal extent

Beginning date 1896-09-01 00:00:00

Ending date 2012-09-01 00:00:00

Extent in the item's coordinate system

\* West longitude 2299508.758122

\* East longitude 2310348.145235

\* South latitude 13870374.137046

\* North latitude 13875356.915138

\* Extent contains the resource Yes

Hide Extents ▲

**Resource Points of Contact  ▼►**

Point of contact

Individual's name Corby Schaub

Organization's name Nmotion GIS

Contact's role  originator

Hide Resource Points of Contact ▲

**Resource Maintenance  ▼►**

Resource maintenance

Update frequency  unknown

Hide Resource Maintenance ▲

**Spatial Reference  ▼►**

ArcGIS coordinate system

\* Type Projected

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

\* Projection NAD\_1983\_StatePlane\_Texas\_South\_Central\_FIPS\_4204\_Feet

\* Coordinate reference details

Projected coordinate system

Well-known identifier 102740

X origin -126725700

Y origin -77828800

XY scale 34994581.165044695

Z origin -100000

Z scale 10000

M origin -100000

M scale 10000

XY tolerance 0.0032808333333333331

Z tolerance 0.001

M tolerance 0.001

High precision true

Latest well-known identifier 2278

Well-known text PROJCS["NAD\_1983\_StatePlane\_Texas\_South\_Central\_FIPS\_4204\_Feet",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["Lambert\_Conformal\_Conic"],PARAMETER["False\_Easting",1968500.0],PARAMETER["False\_Northing",13123333.33333333],PARAMETER["Central\_Meridian",-99.0],PARAMETER["Standard\_Parallel\_1",28.38333333333333],PARAMETER["Standard\_Parallel\_2",30.28333333333333],PARAMETER["Latitude\_Of\_Origin",27.83333333333333],UNIT["Foot\_US",0.3048006096012192],AUTHORITY["EPSG",2278]]

Reference system identifier

\* Value 2278

\* Codespace EPSG

\* Version 8.6.2

Hide Spatial Reference ▲

**Spatial Data Properties  ▼►**

Vector  ▼►

\* Level of topology for this dataset  geometry only

Geometric objects

Feature class name TxState\_Structures

\* Object type  composite

\* Object count 264

Hide Vector ▲

ArcGIS Feature Class Properties  ▼►

Feature class name TxState\_Structures

\* Feature type Simple

\* Geometry type Polygon

\* Has topology FALSE

\* Feature count 264

\* Spatial index TRUE

\* Linear referencing FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

**Geoprocessing history  ▼►**

Process

Process name

Date 2015-10-26 14:07:48

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\Dissolve

Command issued

Dissolve FINAL\_BUILDINGS\_20151019 C:\Users\chartnett\Documents\ArcGIS\Default.gdb\FINAL\_BUILDINGS\_20151019\_Dis Name;Constructi;Demolition;Notes # MULTI\_PART DISSOLVE\_LINES

Include in lineage when exporting metadata No

Process

Process name

Date 2015-10-26 14:09:01

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\Merge

Command issued

Merge FINAL\_BUILDINGS\_20151019\_Dis;JG\_edits\_MasterBuilding\_Merg C:\Users\chartnett\Documents\ArcGIS\Default.gdb\FINAL\_BUILDINGS\_20151019\_Dis1 "Name "Name" true true false 20 Text 0 0 ,First,#,FINAL\_BUILDINGS\_20151019\_Dis,Name,-1,-1;Constructi "Constructi" true true false 4 Long 0 0 ,First,#,FINAL\_BUILDINGS\_20151019\_Dis,Constructi,-1,-1,JG\_edits\_MasterBuilding\_Merg,Constructi,-1,-1;Demolition "Demolition" true true false 4 Long 0 0 ,First,#,FINAL\_BUILDINGS\_20151019\_Dis,Demolition,-1,-1,JG\_edits\_MasterBuilding\_Merg,Demolition,-1,-1;Notes "Notes" true true false 254 Text 0 0 ,First,#,FINAL\_BUILDINGS\_20151019\_Dis,Notes,-1,-1,JG\_edits\_MasterBuilding\_Merg,Notes,-1,-1;Shape\_Length "Shape\_Length" false true true 8 Double 0 0 ,First,#,FINAL\_BUILDINGS\_20151019\_Dis,Shape\_Length,-1,-1,JG\_edits\_MasterBuilding\_Merg,Shape\_Length,-1,-1;Shape\_Area "Shape\_Area" false true true 8 Double 0 0 ,First,#,FINAL\_BUILDINGS\_20151019\_Dis,Shape\_Area,-1,-1,JG\_edits\_MasterBuilding\_Merg,Shape\_Area,-1,-1;Name\_1 "Name\_1" true true false 254 Text 0 0 ,First,#,JG\_edits\_MasterBuilding\_Merg,Name\_1,-1,-1"

Include in lineage when exporting metadata No

Process

Process name

Date 2015-10-26 14:51:59

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

Command issued

CalculateField FINAL\_BUILDINGS\_20151019\_Dis1 Name "Unknown" VB #

Include in lineage when exporting metadata No

Process

Process name

Date 2015-10-26 14:53:20

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

Command issued

CalculateField FINAL\_BUILDINGS\_20151019\_Dis1 Notes ""Still standing; " + [Notes]" VB #

Include in lineage when exporting metadata No

Process

Process name

Date 2015-10-27 15:41:00

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

Command issued

Append Unknown\_75-122 Almost\_Final\_Building1 NO\_TEST "OBJECTID "OBJECTID" true false false 10 Long 0 10 ,First,#,Unknown\_75-122,OBJECTID,-1,-1;Name "Name" true false false 20 Text 0 0 ,First,#,Unknown\_75-122,Name,-1,-1;Constructi "Constructi" true false false 10 Long 0 10 ,First,#,Unknown\_75-122,Constructi,-1,-1;Demolition "Demolition" true false false 10 Long 0 10 ,First,#,Unknown\_75-122,Demolition,-1,-1;Notes "Notes" true false false 254 Text 0 0 ,First,#,Unknown\_75-122,Notes,-1,-1;Name\_1 "Name\_1" true false false 254 Text 0 0 ,First,#;Shape\_Leng "Shape\_Leng" true false false 19 Double 0 0 ,First,#;Shape\_Area "Shape\_Area" true false false 19 Double 0 0 ,First,#" #

Include in lineage when exporting metadata No

Process

Process name

Date 2015-11-09 16:07:14

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\Dissolve

Command issued

Dissolve Almost\_Final\_Building1 "H:\FINAL DATA\TxState\_Structures.shp" Name;Constructi;Demolition;Notes # MULTI\_PART DISSOLVE\_LINES

Include in lineage when exporting metadata No

Process

Process name

Date 2015-11-09 16:07:51

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

Command issued

CalculateField TxState\_Structures Name "Unknown" VB #

Include in lineage when exporting metadata No

Process

Process name

Date 2015-11-09 16:08:56

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

Command issued

CalculateField TxState\_Structures Build\_Date [Constructi] VB #

Include in lineage when exporting metadata No

Process

Process name

Date 2015-11-09 16:09:22

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

Command issued

CalculateField TxState\_Structures Build\_Date [Constructi] VB #

Include in lineage when exporting metadata No

Process

Process name

Date 2015-11-09 16:09:48

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

Command issued

CalculateField TxState\_Structures Build\_Date [Constructi] VB #

Include in lineage when exporting metadata No

Process

Process name

Date 2015-11-09 16:10:02

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

Command issued

CalculateField TxState\_Structures Demo\_Date [Demolition] VB #

Include in lineage when exporting metadata No

Process

Process name

Date 2015-11-09 16:10:25

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

Command issued

CalculateField TxState\_Structures Comments [Notes] VB #

Include in lineage when exporting metadata No

Process

Process name

Date 2015-11-09 16:16:48

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

Command issued

CalculateField TxState\_Structures 1900 1 VB #

Include in lineage when exporting metadata No

Hide Geoprocessing history ▲

**Distribution  ▼►**

Distribution format

\* Name Shapefile

Transfer options

\* Transfer size 0.125

Hide Distribution ▲

**Fields  ▼►**

Details for object TxState\_Structures  ▼►

\* Type Feature Class

\* Row count 264

Definition

Float feature

Definition source

Esri

Field FID  ▼►

\* Alias FID

\* 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 FID ▲

Field Shape  ▼►

\* Alias Shape

\* Data type Geometry

\* Width 0

\* Precision 0

\* Scale 0

\* Field description

Feature geometry.

\* Description source

Esri

\* Description of values

Coordinates defining the features.

Hide Field Shape ▲

Field Name  ▼►

\* Alias Name

\* Data type String

\* Width 20

\* Precision 0

\* Scale 0

Field description

String Feature

Description source

Nmotion GIS

List of values

Value text

Description Building name

Enumerated domain value definition source Esri

Hide Field Name ▲

Field Build\_Date  ▼►

\* Alias Build\_Date

\* Data type SmallInteger

\* Width 5

\* Precision 5

\* Scale 0

Field description

Interger feature

Description source

Nmotion GIS

List of values

Value Integer

Description Building date

Enumerated domain value definition source Esri

Hide Field Build\_Date ▲

Field Demo\_Date  ▼►

\* Alias Demo\_Date

\* Data type SmallInteger

\* Width 5

\* Precision 5

\* Scale 0

Field description

Interger feature

Description source

Nmotion GIS

List of values

Value Integer

Description Demolished Date

Enumerated domain value definition source Esri

Hide Field Demo\_Date ▲

Field Comments  ▼►

\* Alias Comments

\* Data type String

\* Width 100

\* Precision 0

\* Scale 0

Field description

String feature

Description source

Nmotion GIS

List of values

Value Text

Description Additional comments for building structure.

Enumerated domain value definition source Nmotion GIS

Hide Field Comments ▲

Hide Details for object TxState\_Structures ▲

Hide Fields ▲

**Metadata Details  ▼►**

\* 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 2015-11-23

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata FGDC

Created in ArcGIS for the item 2015-10-26 15:50:17

Last modified in ArcGIS for the item 2015-11-23 12:28:05

Automatic updates

Have been performed Yes

Last update 2015-11-23 12:25:32

Hide Metadata Details ▲

**Metadata Contacts  ▼►**

Metadata contact

Individual's name Corby Schaub

Organization's name Nmotion GIS

Contact's role  originator

Contact information  ▼►

Phone

Voice 830-613-5737

Address

Type physical

City San Marcos

Administrative area Texas

Postal code 78666

Country US

e-mail address ccs93@txstate.edu

Hide Contact information ▲

Hide Metadata Contacts ▲

**Metadata Maintenance  ▼►**

Maintenance

Update frequency  unknown

Maintenance contact

Individual's name Corby Schaub

Organization's name Nmotion GIS

Contact's role  originator

Hide Metadata Maintenance ▲

**Thumbnail and Enclosures  ▼►**

Thumbnail

Thumbnail type  JPG

Hide Thumbnail and Enclosures ▲

**FGDC Metadata (read-only) ▼►**

**Entities and Attributes  ▼►**

Detailed Description

Entity Type

Entity Type Label TxState\_Structures

Entity Type Definition

Float feature

Entity Type Definition Source Esri

Attribute

Attribute Label FID

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 Shape

Attribute Definition

Feature geometry.

Attribute Definition Source Esri

Attribute Domain Values

Unrepresentable Domain

Coordinates defining the features.

Attribute

Attribute Label Name

Attribute Definition

String Feature

Attribute Definition Source Nmotion GIS

Attribute Domain Values

Enumerated Domain

Enumerated Domain Value text

Enumerated Domain Value Definition

Building name

Enumerated Domain Value Definition Source

Esri

Attribute

Attribute Label Build\_Date

Attribute Definition

Interger feature

Attribute Definition Source Nmotion GIS

Attribute Domain Values

Enumerated Domain

Enumerated Domain Value Integer

Enumerated Domain Value Definition

Building date

Enumerated Domain Value Definition Source

Esri

Attribute

Attribute Label Demo\_Date

Attribute Definition

Interger feature

Attribute Definition Source Nmotion GIS

Attribute Domain Values

Enumerated Domain

Enumerated Domain Value Integer

Enumerated Domain Value Definition

Demolished Date

Enumerated Domain Value Definition Source

Esri

Attribute

Attribute Label Comments

Attribute Definition

String feature

Attribute Definition Source Nmotion GIS

Attribute Domain Values

Enumerated Domain

Enumerated Domain Value Text

Enumerated Domain Value Definition

Additional comments for building structure.

Enumerated Domain Value Definition Source

Nmotion GIS

Hide Entities and Attributes ▲

**Property Boundaries of Texas State University**

Shapefile

Tags

Property lines of Texas State University in San Marcos, TX from 1900-2015.

Summary

These polygons are designed to show the growth of Texas State University's property lines at 10 year intervals between the years 1900-2015.

Description

This shape file includes polygons that represent the property lines of Texas State University. Attribute fields include: FID, Shape, Year, and EndYear

Credits

Nmotion GIS. Team Members: Christian Hartnett, Johnnie German, Dylan Epley, and Corby Schaub

Use limitations

N/A

Extent

|  |  |  |  |
| --- | --- | --- | --- |
| West | -97.955538 | East | -97.919436 |
| North | 29.897886 | South | 29.883498 |

Scale Range

|  |  |
| --- | --- |
| Maximum (zoomed in) | 1:5,000 |
| Minimum (zoomed out) | 1:50,000 |

**ArcGIS Metadata ▼►**

**Topics and Keywords  ▼►**

Themes or categories of the resource  boundaries

\* Content type  Downloadable Data

Export to FGDC CSDGM XML format as Resource Description No

Hide Topics and Keywords ▲

**Citation  ▼►**

Title Property Boundaries of Texas State University

Creation date 2015-11-23 00:00:00

Publication date 2015-11-30 00:00:00

Presentation formats  \* digital map

FGDC geospatial presentation format  map

Hide Citation ▲

**Citation Contacts  ▼►**

Responsible party

Individual's name Corby Schaub

Organization's name Nmotion GIS

Contact's role  originator

Hide Citation Contacts ▲

**Resource Details  ▼►**

Dataset languages  \* English (UNITED STATES)

Dataset character set  utf8 - 8 bit UCS Transfer Format

Status  historical archive

Spatial representation type  \* vector

\* Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; ESRIArcGIS 10.3.1.4959

Credits

Nmotion GIS. Team Members: Christian Hartnett, Johnnie German, Dylan Epley, and Corby Schaub

ArcGIS item properties

\* Name TxState\_Boundary

\* Size 0.099

\* Location file://\\TAG316046\E\Texas State\Fall 2015\GIS 4427\Metadata\TxState\_Boundary\TxState\_Boundary.shp

\* Access protocol Local Area Network

Hide Resource Details ▲

**Extents  ▼►**

Extent

Description

Data contains historical documentation of Texas State University from 1900-2015.

Geographic extent

Bounding rectangle

Extent type  Extent used for searching

\* West longitude -97.955538

\* East longitude -97.919436

\* North latitude 29.897886

\* South latitude 29.883498

\* Extent contains the resource Yes

Temporal extent

Beginning date 1900-01-01 00:00:00

Ending date 2015-11-23 00:00:00

Extent in the item's coordinate system

\* West longitude 2299480.219793

\* East longitude 2310873.659932

\* South latitude 13870371.555686

\* North latitude 13875500.426990

\* Extent contains the resource Yes

Hide Extents ▲

**Resource Points of Contact  ▼►**

Point of contact

Individual's name Corby Schaub

Organization's name Nmotion GIS

Contact's role  originator

Contact information  ▼►

Phone

Voice 830-613-5737

Address

Type physical

Delivery point 601 University Dr

City San Marcos

Administrative area Texas

Postal code 78666

e-mail address ccs93@txstate.edu

Hide Contact information ▲

Hide Resource Points of Contact ▲

**Resource Maintenance  ▼►**

Resource maintenance

Update frequency  unknown

Hide Resource Maintenance ▲

**Resource Constraints  ▼►**

Legal constraints

Limitations of use

Legal limitation is unavailable.

Access constraints  copyright

Use constraints  copyright

Constraints

Limitations of use

N/A

Security constraints

Classification  unclassified

Classification system Nmotion GIS

Additional restrictions

University Archives

Hide Resource Constraints ▲

**Spatial Reference  ▼►**

ArcGIS coordinate system

\* Type Projected

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

\* Projection NAD\_1983\_StatePlane\_Texas\_South\_Central\_FIPS\_4204\_Feet

\* Coordinate reference details

Projected coordinate system

Well-known identifier 102740

X origin -126725700

Y origin -77828800

XY scale 34994581.165044695

Z origin -100000

Z scale 10000

M origin -100000

M scale 10000

XY tolerance 0.0032808333333333331

Z tolerance 0.001

M tolerance 0.001

High precision true

Latest well-known identifier 2278

Well-known text PROJCS["NAD\_1983\_StatePlane\_Texas\_South\_Central\_FIPS\_4204\_Feet",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["Lambert\_Conformal\_Conic"],PARAMETER["False\_Easting",1968500.0],PARAMETER["False\_Northing",13123333.33333333],PARAMETER["Central\_Meridian",-99.0],PARAMETER["Standard\_Parallel\_1",28.38333333333333],PARAMETER["Standard\_Parallel\_2",30.28333333333333],PARAMETER["Latitude\_Of\_Origin",27.83333333333333],UNIT["Foot\_US",0.3048006096012192],AUTHORITY["EPSG",2278]]

Reference system identifier

\* Value 2278

\* Codespace EPSG

\* Version 8.6.2

Hide Spatial Reference ▲

**Spatial Data Properties  ▼►**

Vector  ▼►

\* Level of topology for this dataset  geometry only

Geometric objects

Feature class name TxState\_Boundary

\* Object type  composite

\* Object count 12

Hide Vector ▲

ArcGIS Feature Class Properties  ▼►

Feature class name TxState\_Boundary

\* Feature type Simple

\* Geometry type Polygon

\* Has topology FALSE

\* Feature count 12

\* Spatial index TRUE

\* Linear referencing TRUE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

**Geoprocessing history  ▼►**

Process

Process name

Date 2008-10-24 10:07:19

Tool location C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Data Management Tools.tbx\DefineProjection

Command issued

DefineProjection "C:\Documents and Settings\rs22\Desktop\propertysp83sc.shp" PROJCS['NAD\_1983\_StatePlane\_Texas\_South\_Central\_FIPS\_4204\_Feet',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['Lambert\_Conformal\_Conic'],PARAMETER['False\_Easting',1968500.0],PARAMETER['False\_Northing',13123333.33333333],PARAMETER['Central\_Meridian',-99.0],PARAMETER['Standard\_Parallel\_1',28.38333333333333],PARAMETER['Standard\_Parallel\_2',30.28333333333333],PARAMETER['Latitude\_Of\_Origin',27.83333333333333],UNIT['Foot\_US',0.3048006096012192]] "C:\Documents and Settings\rs22\Desktop\propertysp83sc.shp"

Include in lineage when exporting metadata No

Process

Process name

Date 2015-10-26 15:27:01

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\Merge

Command issued

Merge 'New Group Layer\1900property';'New Group Layer\1910property';'New Group Layer\1920property';'New Group Layer\1930property';'New Group Layer\1940property';'New Group Layer\1950property';'New Group Layer\1960property';'New Group Layer\1970property';'New Group Layer\1980property';'New Group Layer\1990property';'New Group Layer\2000property';'New Group Layer\2010propertysp83sc' C:\Users\chartnett\Documents\ArcGIS\Default.gdb\c1900property\_Merge1 "Year "Year" true true false 10 Long 0 10 ,First,#,New Group Layer\1900property,Year,-1,-1,New Group Layer\1910property,Year,-1,-1,New Group Layer\1920property,Year,-1,-1,New Group Layer\1940property,Year,-1,-1,New Group Layer\1950property,Year,-1,-1,New Group Layer\1960property,Year,-1,-1,New Group Layer\1970property,Year,-1,-1,New Group Layer\1980property,Year,-1,-1,New Group Layer\1990property,Year,-1,-1,New Group Layer\2000property,Year,-1,-1,New Group Layer\2010propertysp83sc,Year,-1,-1;F1930 "F1930" true true false 5 Short 0 5 ,First,#,New Group Layer\1930property,1930,-1,-1"

Include in lineage when exporting metadata No

Process

Process name

Date 2015-10-26 15:27:16

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

Command issued

CalculateField c1900property\_Merge1 Year 1930 VB #

Include in lineage when exporting metadata No

Process

Process name

Date 2015-10-26 15:27:31

Tool location c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\Dissolve

Command issued

Dissolve c1900property\_Merge1 C:\Users\chartnett\Documents\ArcGIS\Default.gdb\c1900property\_Merge1\_Dissolv Year # MULTI\_PART DISSOLVE\_LINES

Include in lineage when exporting metadata No

Hide Geoprocessing history ▲

**Distribution  ▼►**

Distributor  ▼►

Transfer options

Online source

\* Location file://\\TAG310981\C$\Shapefiles\GoodShapeFiles\1920propertyCopy

\* Access protocol Local Area Network

Hide Distributor ▲

Distribution format

\* Name Shapefile

Transfer options

\* Transfer size 0.099

Hide Distribution ▲

**Fields  ▼►**

Details for object TxState\_Boundary  ▼►

\* Type Feature Class

\* Row count 12

Definition

Property boundaries.

Definition source

Nmotion GIS

Field FID  ▼►

\* Alias FID

\* 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.

Beginning date of values 1900-01-01

Ending date of values 2015-11-23

Hide Field FID ▲

Field Shape  ▼►

\* Alias Shape

\* Data type Geometry

\* Width 0

\* Precision 0

\* Scale 0

\* Field description

Feature geometry.

\* Description source

Esri

\* Description of values

Coordinates defining the features.

Beginning date of values 1900-01-01

Ending date of values 2015-11-23

Hide Field Shape ▲

Field Year  ▼►

\* Alias Year

\* Data type Integer

\* Width 10

\* Precision 10

\* Scale 0

Field description

Integer, number

Description source

Nmotion GIS

Range of values

Minimum value 1900

Maximum value 2010

Beginning date of values 1900-01-01

Ending date of values 2015-11-23

Hide Field Year ▲

Field EndYear  ▼►

\* Alias EndYear

\* Data type SmallInteger

\* Width 5

\* Precision 5

\* Scale 0

Field description

Integer, number

Description source

Nmotion GIS

Range of values

Minimum value 1910

Maximum value 2015

Beginning date of values 1900-01-01

Ending date of values 2015-11-23

Hide Field EndYear ▲

Hide Details for object TxState\_Boundary ▲

Hide Fields ▲

**Metadata Details  ▼►**

\* 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 2015-11-23

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata FGDC

Created in ArcGIS for the item 2015-11-09 16:56:41

Last modified in ArcGIS for the item 2015-11-23 12:44:56

Automatic updates

Have been performed Yes

Last update 2015-11-23 12:43:44

Hide Metadata Details ▲

**Metadata Contacts  ▼►**

Metadata contact

Individual's name Corby Schaub

Organization's name Nmotion GIS

Contact's role  originator

Contact information  ▼►

Phone

Voice 830-613-5737

Address

Type physical

Delivery point 601 University Dr

City San Marcos

Administrative area Texas

Postal code 78666

e-mail address ccs93@txstate.edu

Hide Contact information ▲

Hide Metadata Contacts ▲

**Metadata Maintenance  ▼►**

Maintenance

Update frequency  unknown

Hide Metadata Maintenance ▲

**Thumbnail and Enclosures  ▼►**

Thumbnail

Thumbnail type  JPG

Hide Thumbnail and Enclosures ▲

**FGDC Metadata (read-only) ▼►**

**Identification  ▼►**

Citation

Citation Information

Online Linkage \\TAG310981\C$\Shapefiles\GoodShapeFiles\1920propertyCopy

Hide Identification  ▲

**Data Quality  ▼►**

Lineage

Process Step

Process Description

Dataset copied.

Source Used Citation Abbreviation

C:\Shapefiles\GoodShapeFiles\propertysp83sc

Process Date 2011-02-09

Process Time 10:51:10

Process Step

Process Description

Dataset copied.

Source Used Citation Abbreviation

C:\Shapefiles\GoodShapeFiles\2000property

Process Date 2011-02-09

Process Time 11:30:35

Process Step

Process Description

Dataset copied.

Source Used Citation Abbreviation

C:\Shapefiles\GoodShapeFiles\1990property

Process Date 2011-02-09

Process Time 14:20:48

Process Step

Process Description

Dataset copied.

Source Used Citation Abbreviation

C:\Shapefiles\GoodShapeFiles\1980property

Process Date 2011-02-09

Process Time 16:53:47

Process Step

Process Description

Dataset copied.

Source Used Citation Abbreviation

C:\Shapefiles\GoodShapeFiles\1970property

Process Date 2011-02-10

Process Time 09:15:18

Process Step

Process Description

Dataset copied.

Source Used Citation Abbreviation

C:\Shapefiles\GoodShapeFiles\1960property

Process Date 2011-02-10

Process Time 12:54:03

Process Step

Process Description

Dataset copied.

Source Used Citation Abbreviation

C:\Shapefiles\GoodShapeFiles\1950property

Process Date 2011-02-10

Process Time 13:57:27

Process Step

Process Description

Dataset copied.

Source Used Citation Abbreviation

C:\Shapefiles\GoodShapeFiles\1940property

Process Date 2011-02-10

Process Time 14:51:15

Process Step

Process Description

Dataset copied.

Source Used Citation Abbreviation

C:\Shapefiles\GoodShapeFiles\1930property

Process Date 2011-02-10

Process Time 15:41:45

Process Step

Process Description

Dataset copied.

Source Used Citation Abbreviation

C:\Shapefiles\GoodShapeFiles\1920property

Process Date 2011-02-11

Process Time 11:41:47

Hide Data Quality  ▲

**Entities and Attributes  ▼►**

Detailed Description

Entity Type

Entity Type Label TxState\_Boundary

Entity Type Definition

Property boundaries.

Entity Type Definition Source Nmotion GIS

Attribute

Attribute Label FID

Attribute Definition

Internal feature number.

Attribute Definition Source Esri

Attribute Domain Values

Unrepresentable Domain

Sequential unique whole numbers that are automatically generated.

Beginning Date of Attribute Values 1900-01-01

Ending Date of Attribute Values 2015-11-23

Attribute

Attribute Label Shape

Attribute Definition

Feature geometry.

Attribute Definition Source Esri

Attribute Domain Values

Unrepresentable Domain

Coordinates defining the features.

Beginning Date of Attribute Values 1900-01-01

Ending Date of Attribute Values 2015-11-23

Attribute

Attribute Label Year

Attribute Definition

Integer, number

Attribute Definition Source Nmotion GIS

Attribute Domain Values

Range Domain

Range Domain Minimum 1900

Range Domain Maximum 2010

Beginning Date of Attribute Values 1900-01-01

Ending Date of Attribute Values 2015-11-23

Attribute

Attribute Label EndYear

Attribute Definition

Integer, number

Attribute Definition Source Nmotion GIS

Attribute Domain Values

Range Domain

Range Domain Minimum 1910

Range Domain Maximum 2015

Beginning Date of Attribute Values 1900-01-01

Ending Date of Attribute Values 2015-11-23

Hide Entities and Attributes ▲

1. http://resources.arcgis.com/EN/HELP/MAIN/10.2/index.html#//00s50000001q000000 [↑](#footnote-ref-1)
2. http://storymaps.arcgis.com/ [↑](#footnote-ref-2)
3. <http://arcg.is/1MyysuF> [↑](#footnote-ref-3)
4. <http://arcg.is/1MyysuF> [↑](#footnote-ref-4)