Capitol Area Council Boy Scouts Final Report

Mark Parker: Project Manager

Charles Good: Assistant Manager



Hill Country Geospatial Solutions

"Worldwide solutions for Texas sized problems."



Beau Barela: Lead GIS Analyst/ Web Master

Eric Brotherton: GIS Analyst

Justin Holder: GIS Analyst

Mark Parker: Project Manager

Charles Good: Assistant Manager

Beau Barela: Lead GIS Analyst











Justin Holder: Data Collector/ GIS Analyst



Final Report Outline

- Introduction
- Study Area
- Literature Review
- Data
- Methods
- Results
- Discussions
- Final Deliverables
- Suggestions For The Future
- Wrap Up and Questions





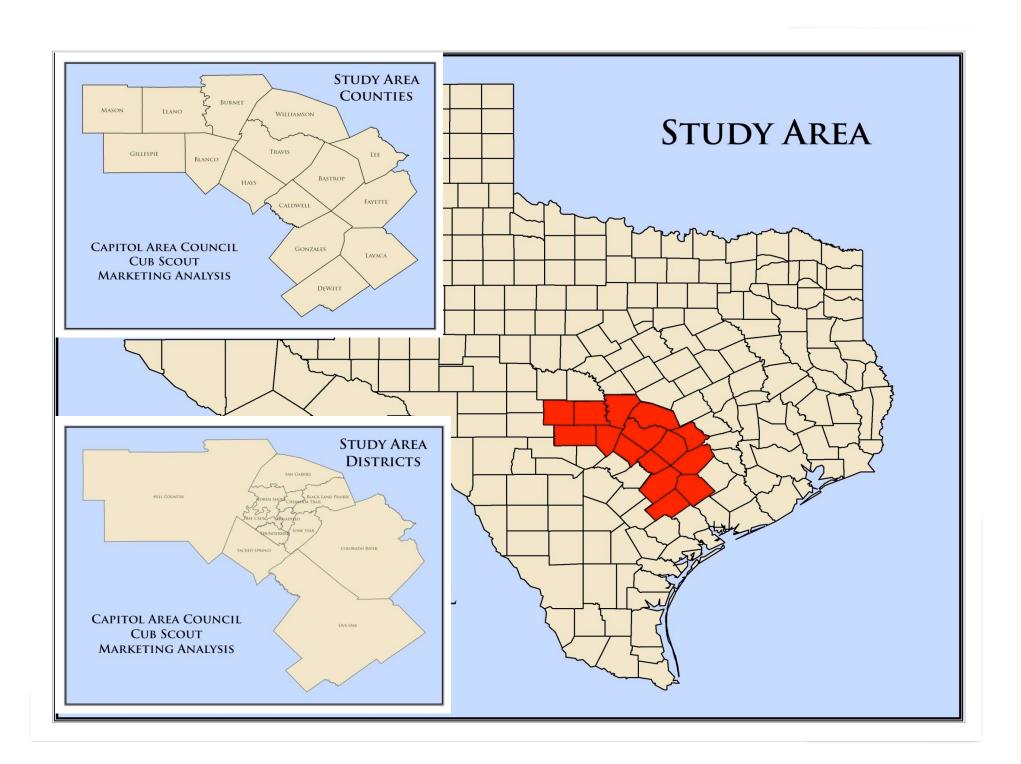
Introduction

- Hill Country Geospatial Solutions (HCGS) accepted a request for proposal from Capitol Area Council Boy Scouts.
- In this request, the Capitol Area Council expressed a need for information on possible marketing areas in order to increase their membership of children ages 5-11.
- •Specifications:



- -Children age's 5-11
- -Lower Income Families
- -Single Parent Homes
- -Minorities
- -Projections (3, 5, 10 years)





Literature Review

- Boy Scouts of America Article
 - Minority Statistics
- Capitol Area Council Boy Scouts
 - -Goals of the Organization
- Location Intelligence
 - HCGS Analysis Goals



Data

- Determination of Data Types and Sources
- Data Sources
 - Capitol Area Council Boys Scouts
 - Texas Natural Resource Information System
 - United States Census Bureau
 - -ESRI
 - Capitol Area Council of Governments
 - Environmental Systems Research Institute

Methods

- Geocoding
- Geo-referencing
- Digitizing
- Projections
 - 2008
 - 2011
 - 2013
 - 2018



"Worldwide solutions for Texas sized problems."

Market Location Analysis

Projections

- Yearly Growth Rate Formula
 - ((Population 2005 Population 2000) / Population 2000) / 5
- Population Projection Formula
 - -Population 2000 * e^rate*time
 - Minimum and Maximum Populations Per Census Tract

```
2008

437

25,480

2011

432

30,018

2013

429

33,477

2018

422

45,878
```

HCGS Ranking System

```
•Children Per Census Tract (35 points)

0-152=1 point *7= 7

153-301= 2 points*7= 14

302-504= 3 points*7= 21

505-811= 4 points*7= 28

812-1658= 5 points*7=35
```

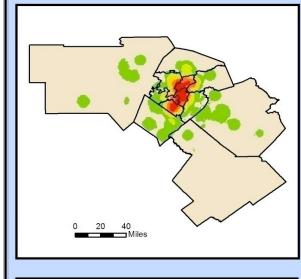
•Median Income (20 points) \$165,112-\$95,070=1point*4=4 \$95,069-\$61,927=2 points*4 = 8 \$61,926-\$40,871=3 points*4= 12 \$40,870-\$24,460=4 points*4= 16 \$0-\$24,459=5 points*4= 20

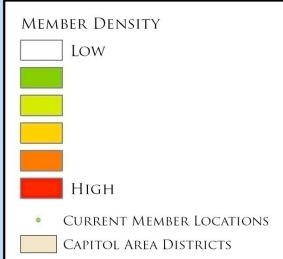
•Single Parent Homes (15 points) 0-59=1*3 point=3 60-111=2*3 points=6 112-172=3*3 points=9 173-255=4*3 points = 12 256-560=5*3 points=15 •Hispanic Children Per Tract (10 points) 0-50=1*2 point=2 51-112=2*2 point= 4 113-190=3*2 point= 6 191-348=4*2 point= 8 349-697=5*2 point= 10

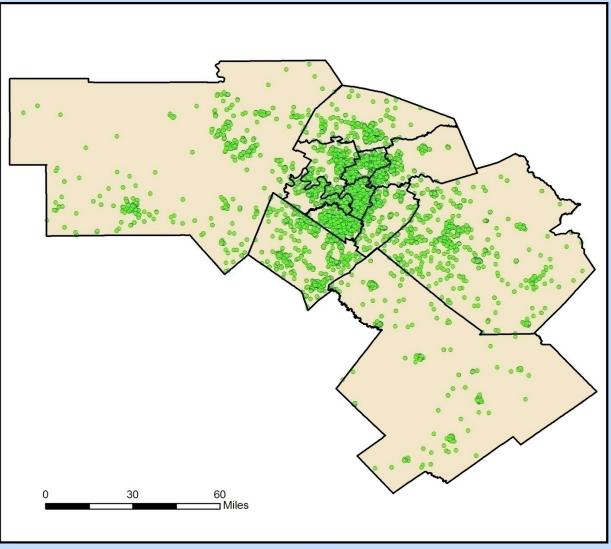
•Growth Rate (10 points) (-1.4%)-0.9%= 1*2=2 0.9%-1.8%=2*2= 4 1.8%-2.9%=3*2= 6 2.9%-4.6%=4*2 =8 4.6%-8.8%=5*2 = 10

•Current Members (10 points) 0-28= 1*2=10 29-67=2*2= 8 68-125=3*2= 6 126-213=4*2= 4 214-489=5*2= 2

Results







CUB SCOUT DISTRIBUTION

CAPITOL AREA COUNCIL
BOY SCOUTS
MARKETING ANALYSIS

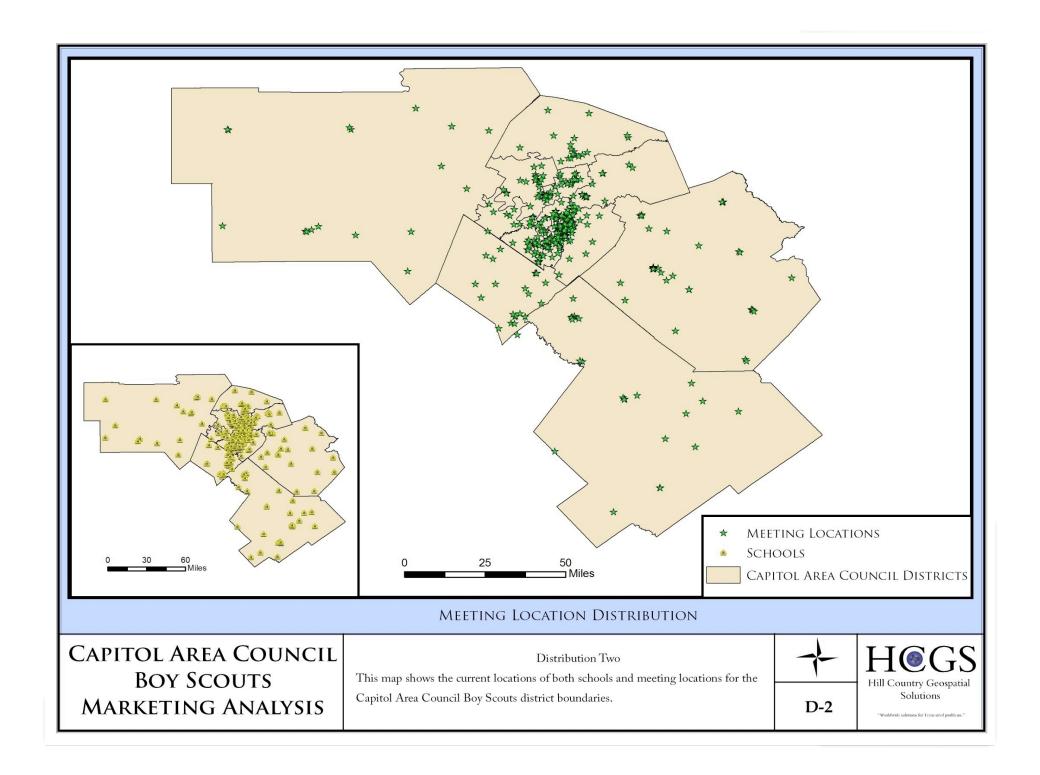
Distribution One

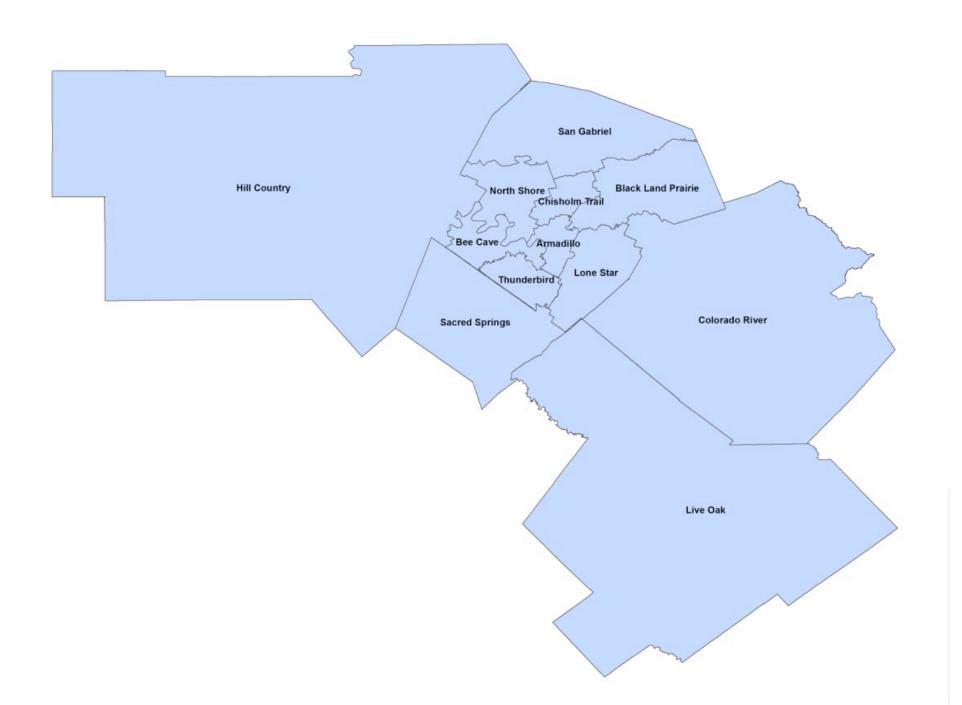
This map indicates the current location, density and distribution of Cub Scout members in the Capitol Area Council Boy Scout districts.

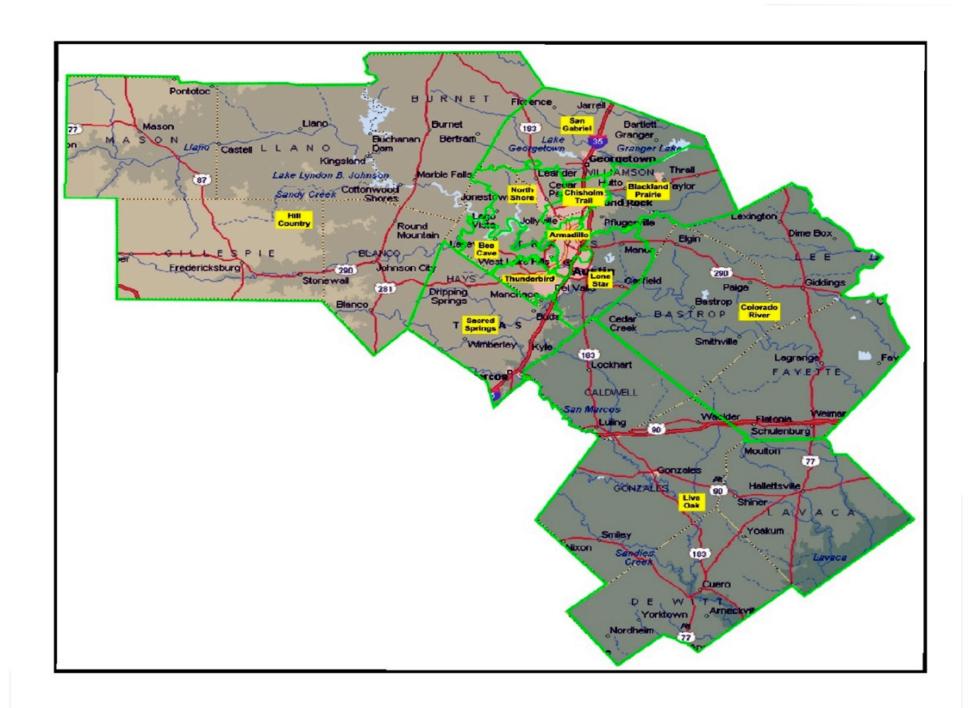


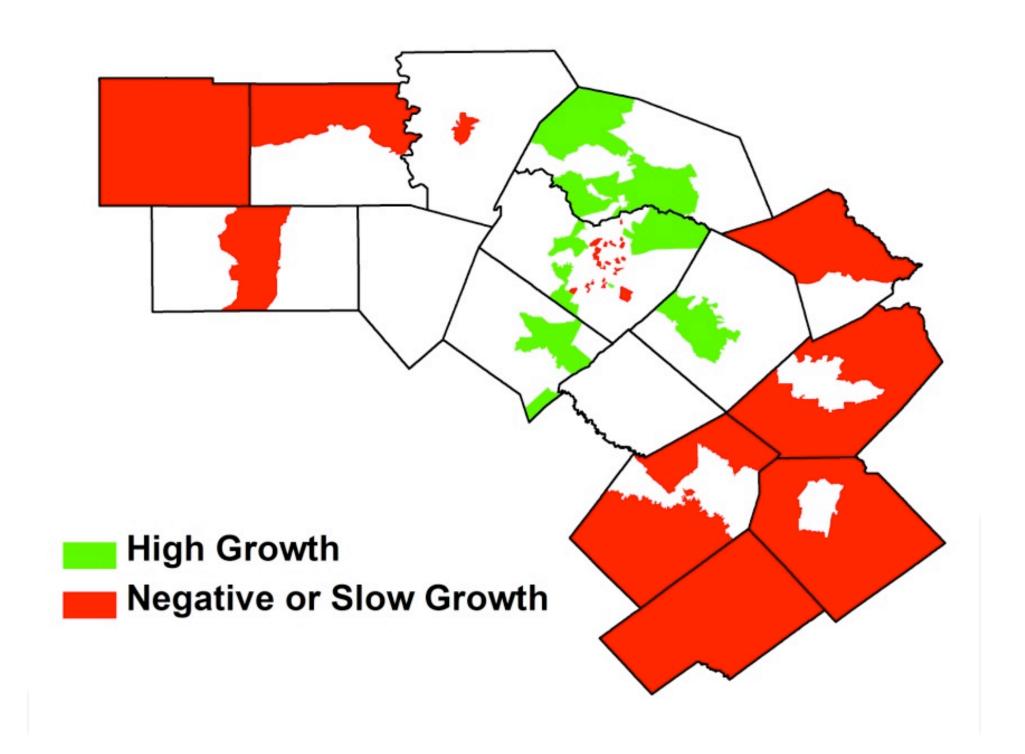
H@GS
Hill Country Geospatial
Solutions

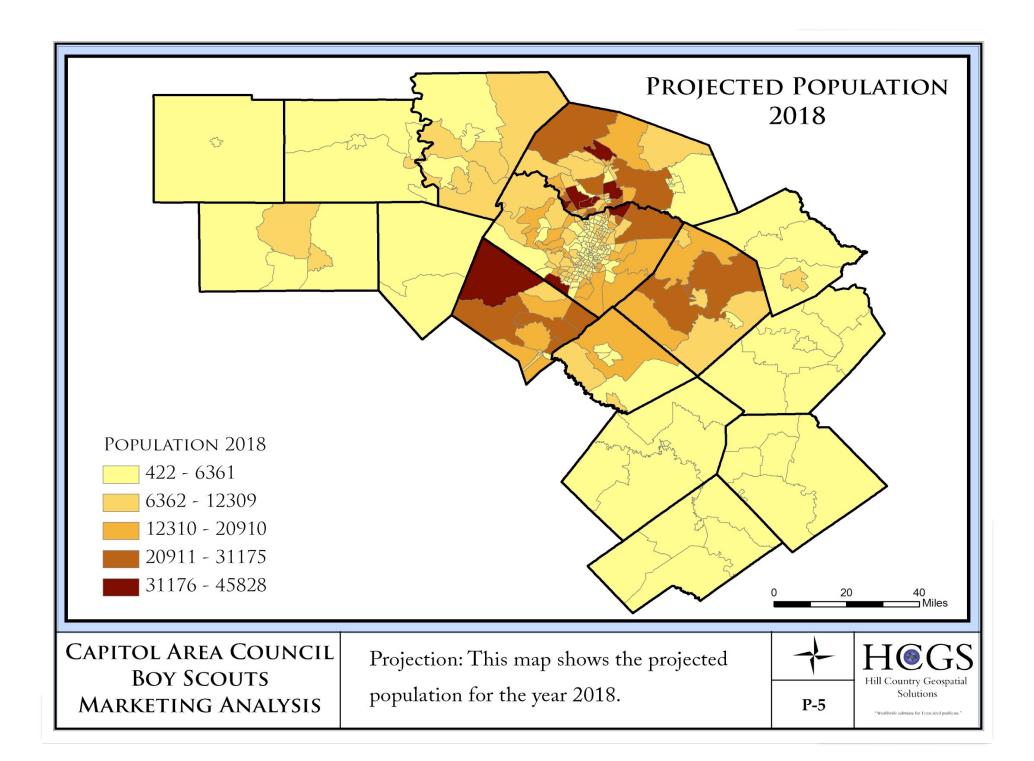
D-1

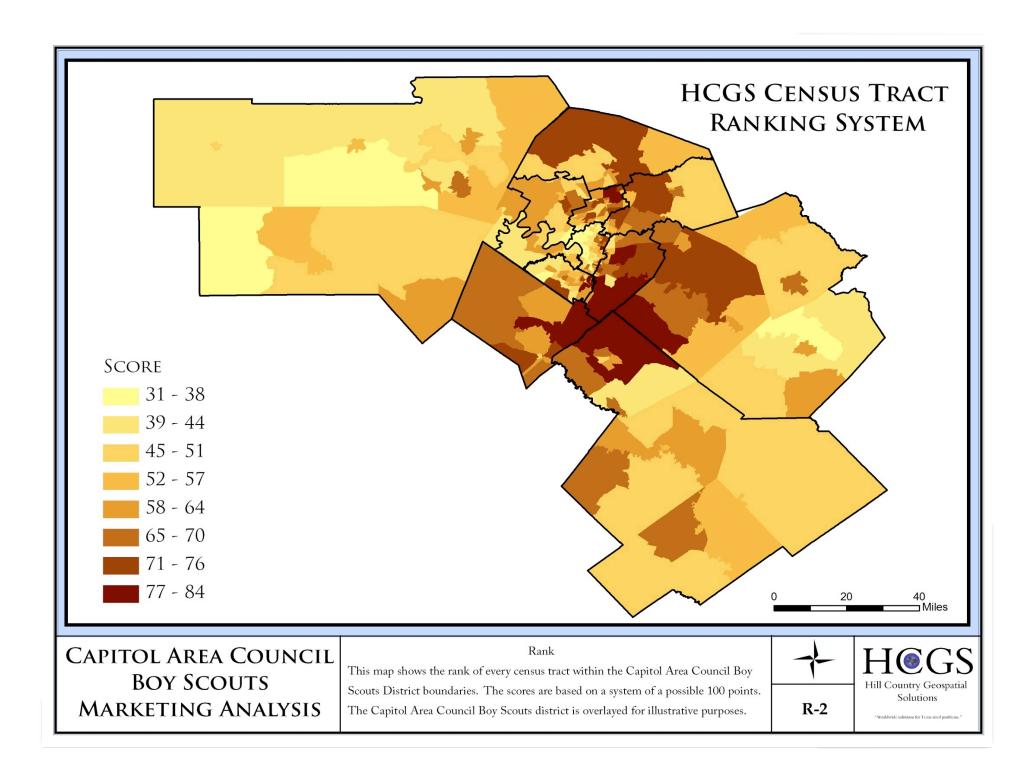


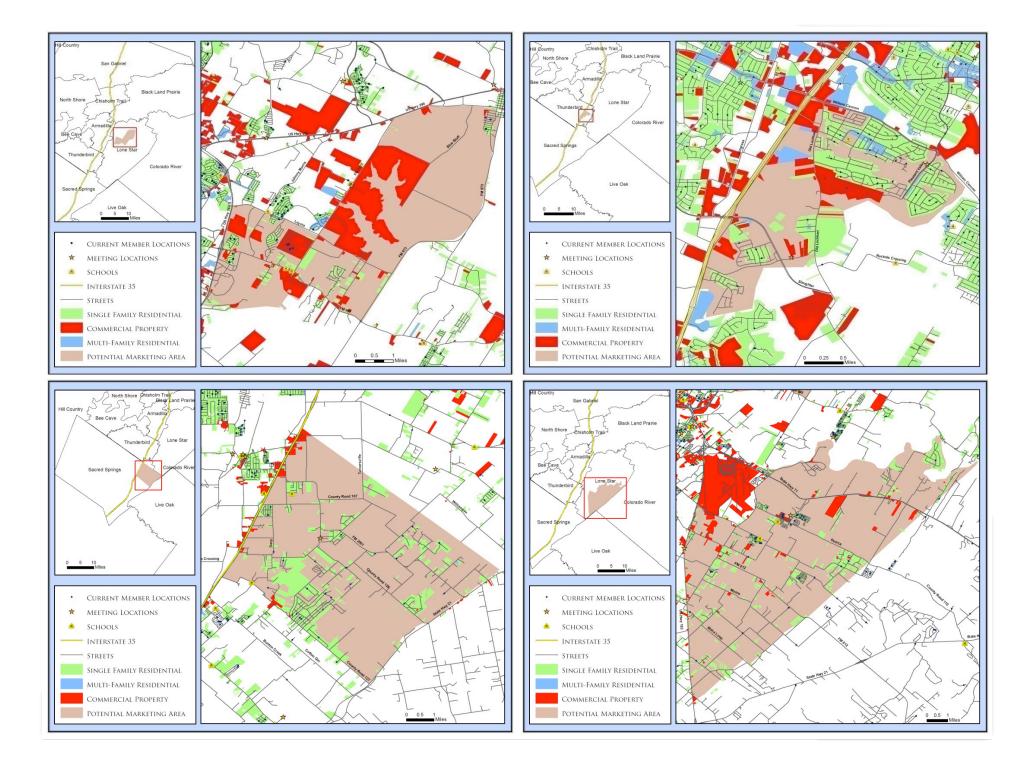












Discussions

What Makes a Marketable Census Tract?

Top Census Tract

Next Three Census Census Tracts

Top District



Top 4 Census Tracts					
	One	Two	Three	Four	AVG (2,3,4)
District	Lone Star	Thunderbird	Sacred Springs	Lone Star	
Subdivisions	Walnut Creek, Walter E. Long	Onion Creek		Elroy, Pearce Rd., Garfield	
Score	84/100	83/100	83/100	83/100	83/100
Total Children 5-11	724	950	923	865	913
Hispanic Children 5-11	405	697	603	502	601
% Hispanic	56%	73%	65%	58%	66%
Single Parent Homes	312	451	293	324	356
Avg Income	37111	42115	45052	42392	43183
Growth Rate	2.8%	3.8%	5.9%	3.9%	4.5%
Current Members	19	55	54	45	51
% Scouts	2%	5%	5%	5%	5%
# of Schools	7	9	10	5	8

Final Deliverables

- Final Report
- Map Book
- Arc Reader
- Arc Reader Instruction Manual
- Google Earth
- Data CD
- Website



Suggestions for the Future

- Projections
- Demographics
- Ranking System
- ArcGIS Business Analyst



Wrap Up and Questions

- HCGS FINISHED AHEAD OF SCHEDULE
- Google Earth was added at no additional cost
- HCGS would like to thank Dr. Lu, Dr. Wilson, and the future Dr. Bailey for their support during the creation this project
- Questions, Comments, Concerns?

