



BOBCAT

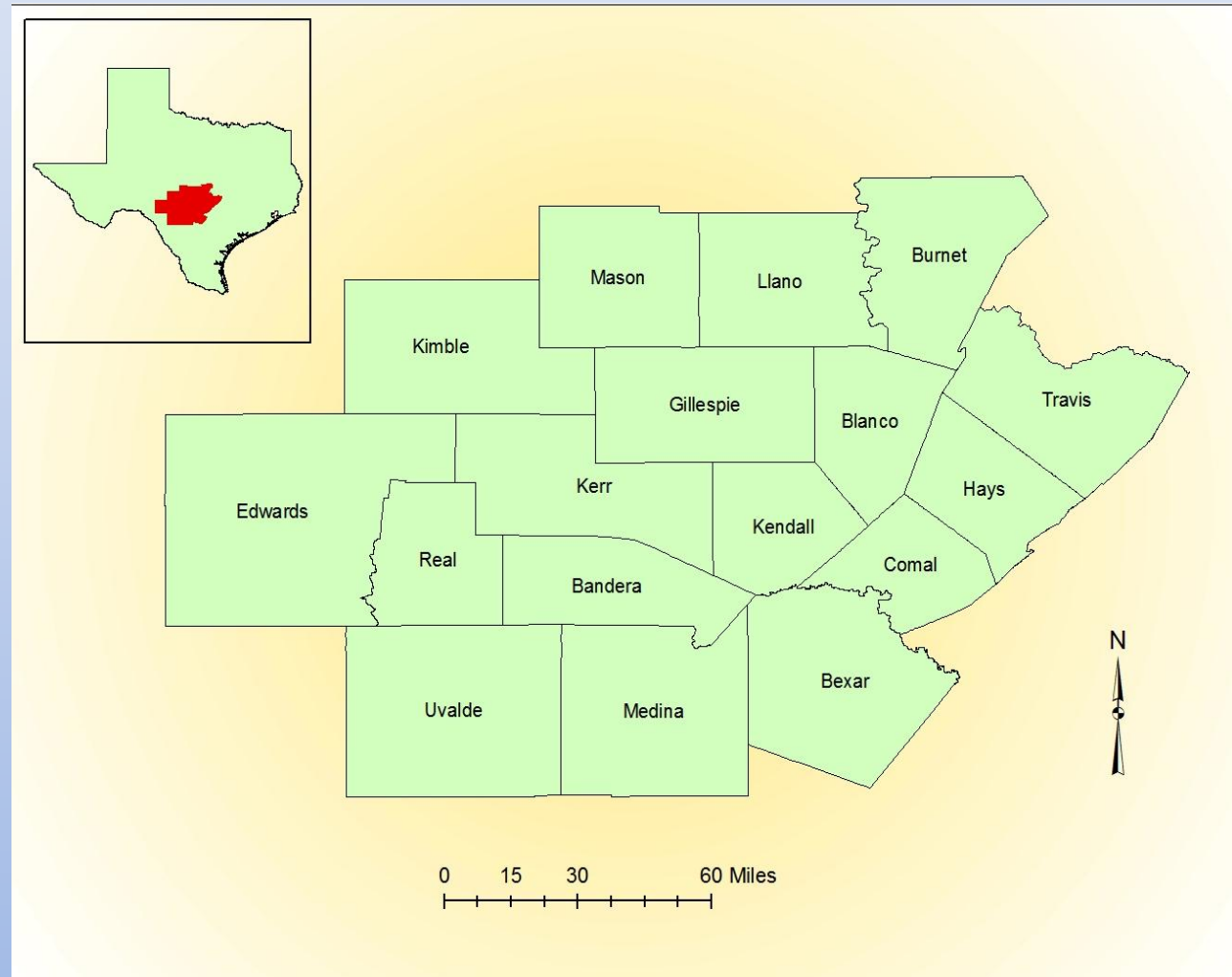
GEOSPATIAL SOLUTIONS

Teresa Hobby—Manager
Sarita Hedgepeth—Assistant Manager

Charles Hill—GIS Analyst
Scott Lindsay--Webmaster

Purpose and Scope

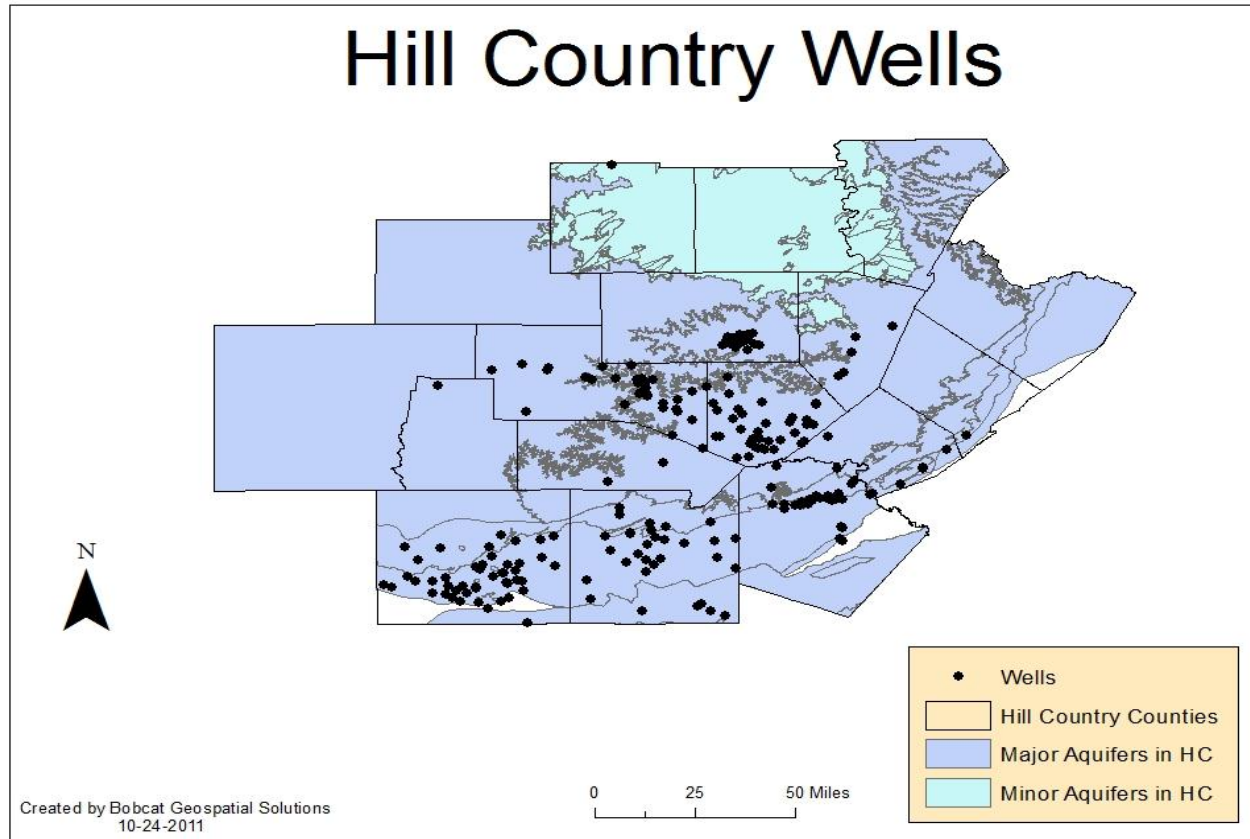
- HCA has requested that BGS create a color-coded representation of water wells in the Texas Hill Country's 17 counties.



Completed Work

- Data Collection
 - USGS and TWDB
 - Groundwater Conservation Districts
- Problems
 - Timely updates from TWDB and USGS
 - Response to E-mail by GCD's

Completed Work



Current Work

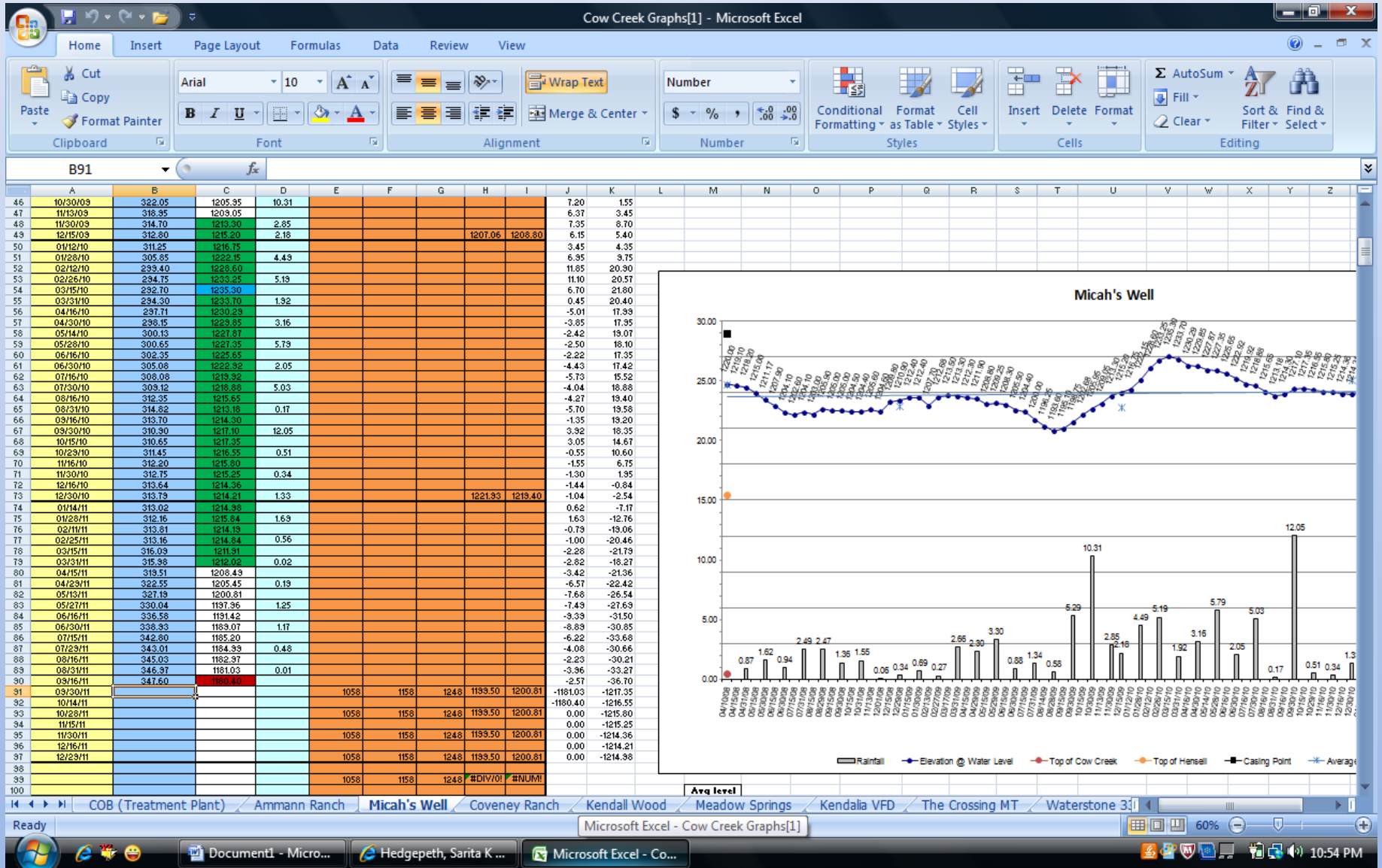
- Collecting monthly data for the wells
- Merging the separate datasets
- Data extraction
- Data reformatting



Current Work

- Cow Creek Groundwater Conservation District, Medina County GWD, Headwaters Groundwater Conservation District (Kerr County), Central Texas GCD, Hays Trinity Groundwater Conservation District, Hill Country Underground Water Conservation District and the Edwards Aquifer Authority

Current Work



Future Work

- Well data refinement
 - Aggregate current data from districts to matching historic data
 - Obtain percentile values
 - Update Excel data
- ArcGIS 10
 - Re-geocode well data
 - Refine and convert data layers to KMZ files

Future Work

- Web page
 - Manifold System
 1. Internet map server for interactive map
 2. Import data layers from ArcGIS 10 for viewing on the server

Conclusion

- Six of the eight groundwater districts responded to our second email
- Data needs tweaking
- Automated vs. manual data entry
- Deadline November 7
- Map creation, percentile calculation, & webpage development

Conclusion

Responding Groundwater Districts

- Cow Creek Groundwater Conservation District (GCD)
- Medina County GCD
- Headwaters GCD (Kerr County)
- Central Texas GCD
- Hays Trinity GCD
- Hill Country Underground Water Conservation District
- Edwards Aquifer Authority

Final Deliverables

- By December 12, HCA will have a detailed final report, a professional poster for display in the Geography Department, a website, and two CDs containing the following:
 - All data
 - Metadata
 - Proposal, Progress, and Final Reports
 - Poster
 - PowerPoint Presentations
 - Instructions on how to use CD (*readme* file)

Questions?