

PURPOSE

To develop, modify, analyze, visualize and manage location-based information.

MAJOR PROGRAMS**RURAL ADDRESSING**

Assign e911 emergency response addresses to rural structures of Collin County. The responsibilities of this program are to assign addresses, update the statewide e911 address range database to reflect city annexations and communicate address and changes to the customer, Post Office, Sheriff's Office and other related agencies. This program is part of the Building Permit work-flow process of Development Services. This program is dependent on the Geospatial Database Management, Application Development, Cartography and Spatial Analysis programs of the GIS Department to be functional. The results of this program benefit Public Works, Auditor's Office (GASB 34), Sheriff's Office and the Elections Department. Each of these departments has a vested interest in the accuracy of roads and boundaries.

FY 2014 Goals & Objectives

1. To Assign Addresses within 3 business days of receipt 95% of the time.
2. To update Annex / Deannex information within 10 business days of receipt 90% of the time.
3. To process Road Name Petitions within 21 business days of receipt 90% of the time.
4. To update 911 Net system for rural MSAGs within 10 business days of receipt 95% of the time.
5. To make City/County coordinated MSAG recommendations within 10 days for City 911 Net system updates
6. To communicate with City to update 911 Net system as recommended.
7. Track acreage of land annexed by cities monthly.
8. Track Collin County population

PERFORMANCE MEASURES	FY 2010 ACTUAL	FY 2011 ACTUAL	FY 2012 ACTUAL	FY 2013 ACTUAL	FY 2014 Q1	FY 2014 Q2	FY 2014 Q3	FY 2014 Q4
# of Addresses Assigned	204	163	339	530	83	722	102	138
# of Addresses Assigned in 3 days or less	204	163	339	530	83	722	102	138
% of Addresses Assigned within 3 days	100%	100%	100%	100%	100%	100%	100%	100%
# of Annexations / Deannexations	75	61	108	23	28	6	6	9
# of Annex / Deannex updates completed	75	61	108	23	28	6	6	9
% of Annex / Deannex updates completed	100%	100%	100%	100%	100%	100%	100%	100%
# of MSAGs started	1,015	884	989	398	59	175	106	177
# of MSAGs entered into 911 Net system	1,015	884	989	398	59	175	106	177
# of MSAGs completed within 10 days	100%	100%	100%	100%	100%	100%	100%	100%
# of Road Name Petitions Received	6	5	5	3	0	4	1	4
# of Road Name Petitions completed within 21 days	6	5	5	3	0	4	1	4
% of Road Name Petitions completed within	100%	100%	100%	100%	100%	100%	100%	100%
Track acreage of land annexed by cities	2,312.30	4,682.50	4,149.47	549.83	324.2	251.9	497.2	173.7
Track Collin County Population	772,864	792,936	813,133	822,428	826,227	821,611	821,306	906,998

GIS SERVICES

There has been some interest in hiring our GIS department for GIS services by other agencies. We started providing GIS Services to the City of Wylie in FY 2005. We have many resources that some cities within Collin County cannot afford, maintain or staff. We have an opportunity to leverage our GIS investment to support other County entities as well as generating revenue. This program is dependent on the Geospatial Database Management, Application Development, Cartography, Spatial Analysis and Web-Based GIS programs of the GIS Department to be functional. The result of this program is that the geospatial database that we develop for our customers is the same as ours. Thus, we do not have to convert or manipulate data to fit into our database schema.

FY 2014 Goals & Objectives

1. To complete all projects outlined in our Inter-Local Agreement with Wylie by October 1st each year.

GEOSPATIAL DATABASE MANAGEMENT

It is our department’s goal to provide access to our GIS database to all employees and citizens. We have tiered our environment to three major components – Development, Power User and Web. Development is the GIS department. Power users are the departmental users and the web is for all. Mobile and Wireless GIS are now part of the architecture. All of the GIS Departments major programs are dependent on Geospatial database management. This program is the essence of GIS and requires hardware, software and network infrastructure.

FY 2014 Goals & Objectives

- 1. To track the number of additions to the GIS database monthly.
- 2. Total mileage of roads in Collin County
- 3. Total mileage of Collin County maintained roads
- 4. Total acreage of city boundaries in Collin County

PERFORMANCE MEASURES	FY 2010 ACTUAL	FY 2011 ACTUAL	FY 2012 ACTUAL	FY 2013 ACTUAL	FY 2014 Q1	FY 2014 Q2	FY 2014 Q3	FY 2014 Q4
# of records received added to GIS Database	n/a	n/a	552	152	381	442	2436	298
Mileage of roads added to the GIS Database	n/a	n/a	91	16	35	34	259	30

APPLICATION DEVELOPMENT

Automating tasks, improving operational efficiency, supporting major programs and customizing are all reasons for designing applications. Our GIS has been developing applications since its inception in 1992. Application development represents the flexibility of GIS. Through code, our office is able to design internal and external web applications; develop address and road range calculations for our Rural Addressing program; automate methods to manage geospatial data; population estimates; and an efficient method to produce maps. The Application Development program requires development software such as Visual Studio and a GIS. This program supports Rural Addressing, GIS Services, Web-Based GIS, Spatial Analysis and Cartography.

FY 2014 Goals & Objectives

- 1. To develop GIS based applications using Agile methods

SPATIAL ANALYSIS

Spatial Analysis is a set of techniques whose results are dependent on the locations of the objects being analyzed (Dr. Michael F. Goodchild, National Center for Geographic Information and Analysis University of California, Santa Barbara). The Rural Addressing, GIS Services and Web-Based GIS programs all are dependent on spatial analysis. This program requires the Geospatial Database Management program to function.

WEB BASED GIS

This program allows Collin County to “give back” to our constituency all of the time and resources spent developing GIS database. Any citizen can view our aerial images, 2' contours or any other data at any time. Most of our GIS layers are now on the web. We will continue to develop web GIS projects. This program is dependent on the Geospatial Database Management, Application Development, Cartography, and Spatial Analysis programs of the GIS Department to be functional. The result of this program is a cost-effective method for the citizens, County departments, agencies and business to access our geospatial data.

FY 2014 Goals & Objectives

- 1. To track the # of page views for the Interactive Maps application.
- 2. Track the number of public-designed custom maps monthly.

PERFORMANCE MEASURES	FY 2010 ACTUAL	FY 2011 ACTUAL	FY 2012 ACTUAL	FY 2013 ACTUAL	FY 2014 Q1	FY 2014 Q2	FY 2014 Q3	FY 2014 Q4
# of page views for the Interactive Maps site	531,372	176,937	207,536	383,322	44,147	65,446	46,474	37,858
# of public designed custom maps using the Interactive Maps application	23,873	23,615	19,119	16,004	2,599	3,067	2,986	2,525

CARTOGRAPHY

Many may consider mapping the only thing the GIS Department does. However, cartography is often the end result of analysis that is performed. For instance, the Rural Addressing, GIS Services and Web-Based GIS all use cartography as part of their function. The Cartography program allows our office to creatively represent spatial information in clear and concise manner. We are an office of Geographers and cartography is our tool to creatively express ourselves. This program requires the Geospatial Database Management program (GIS software) to function.

FY 2014 Goals & Objectives

- 1. To complete Jury Trial maps prior to trial date 95% of the time.
- 2. To design / plot fire district maps within 1 month of request from VFD 90% of the time.
- 3. To process "standard" map requests as identified in the Incident Management system 90% of the time.
- 4. To process "custom" map requests identified in the Incident Management system 90% of the time.

PERFORMANCE MEASURES	FY 2010 ACTUAL	FY 2011 ACTUAL	FY 2012 ACTUAL	FY 2013 ACTUAL	FY 2014 Q1	FY 2014 Q2	FY 2014 Q3	FY 2014 Q4
# of Jury Trial maps requested	13	12	12	21	1	6	8	2
# of Jury Trial maps completed as identified in the Incident Management system	13	12	12	21	1	6	8	2
% of Jury Trial maps completed as identified in the Incident Management system	100%	100%	100%	100%	100%		100%	100%
# of fire district map requests from VFD	47	75	50	21	2	2	5	6
# of fire district map requests completed within 1 month	31	16	15	21	2	2	5	6
% of fire district map requests completed within 1 month	66%	21%	25%	100%	100%	100%	100%	100%
# of standard map requests	368	128	150	302	173	21	46	1109
# of standard map requests processed as identified in the Incident Management system	n/a	128	50	302	173	21	46	1,109
% of small quantity standard map requests processed as identified in the Incident Management System	n/a	100%	33%	100%	100%	100%	100%	100%
# of custom map requests	775	200	200	465	23	138	39	24
# of custom map requests processed as identified in the Incident Management system	n/a	200	200	465	23	138	39	24
% of small quantity custom map requests processed as identified in the Incident Management system	n/a	100%	100%	100%	100%	100%	100%	100%

ADMINISTRATION

General office support and administration. This program includes staff performance reviews, managing projects and requests, ordering supplies, etc.
