

PURPOSE

To develop, modify, analyze 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 2015 Goals & Objectives

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

PERFORMANCE MEASURES	FY 2011 ACTUAL	FY 2012 ACTUAL	FY 2013 ACTUAL	FY 2014 ACTUAL	FY 2015 Q1
# of Addresses Assigned	0	339	530	1,045	436
# of Addresses Assigned in 3 days or less	0	339	530	1,045	436
% of Addresses Assigned within 3 days	0%	100%	100%	100%	100%
# of Annexations / Deannexations	61	108	23	49	16
# of Annex / Deannex updates completed	0	108	23	49	16
% of Annex / Deannex updates completed	100%	100%	100%	100%	100%
# of MSAGs started	884	989	398	517	168
# of MSAGs entered into 911 Net system	884	989	398	517	168
# of MSAGs completed within 10 days	100%	100%	100%	100%	100%
# of Road Name Petitions Received	5	3	3	9	4
# of Road Name Petitions completed within 21 days	5	3	3	9	4
% of Road Name Petitions completed within	100%	100%	100%	100%	100%
Track acreage of land annexed by cities	4,682.50	4,149.47	549.83	1,247.00	1,630.20
Track Collin County Population	792,929	813,133	821,892	906,998	905,766

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 2015 Goals & Objectives

- 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 2015 Goals & Objectives

- To track the number of additions to the GIS database monthly.
- To track the total mileage of roads in Collin County.
- To track the total mileage of Collin County maintained roads.
- To track the total mileage of city boundaries in Collin County.

PERFORMANCE MEASURES	FY 2011 ACTUAL	FY 2012 ACTUAL	FY 2013 ACTUAL	FY 2014 ACTUAL	FY 2015 Q1
# of records received added to GIS Database	n/a	552	152	3,557	600
Mileage of roads added to the GIS Database	n/a	91	16	358	53

APPLICATION DEVELOPMENT

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

FY 2015 Goals & Objectives

- 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 are all dependent on spatial analysis. This program requires the Geospatial Database Management program to function.

WEB BASED GIS

The Web Based GIS program allows Collin County to “give back” to our constituency all of the time and resources spent developing the GIS database. We continue to develop web GIS projects and any citizen can view our aerial images, 2' contours and other data at any time as most of our GIS layers are now on the web. 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 2015 Goals & Objectives

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

PERFORMANCE MEASURES	FY 2011 ACTUAL	FY 2012 ACTUAL	FY 2013 ACTUAL	FY 2014 ACTUAL	FY 2015 Q1
# of page views for the Interactive Maps site	282,645	300,000	383,322	193,925	114,391
# of public designed custom maps using the Interactive Maps application	23,615	19,119	16,004	11,177	2,592

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 2015 Goals & Objectives

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

FY 2015 Adopted Budget Summary

GIS / Rural Addressing

CARTOGRAPHY CONT'

PERFORMANCE MEASURES	FY 2011 ACTUAL	FY 2012 ACTUAL	FY 2013 ACTUAL	FY 2014 ACTUAL	FY 2015 Q1
# of Jury Trial maps requested	12	12	21	17	4
# of Jury Trial maps completed as identified in the Incident Management system	12	12	21	17	4
% of Jury Trial maps completed as identified in the Incident Management system	100%	100%	100%	100%	100%
# of fire district map requests from VFD	75	50	21	15	15
# of fire district map requests completed within 1 month	16	15	21	15	15
% of fire district map requests completed within 1 month	21%	25%	100%	100%	100%
# of standard map requests	128	150	302	1,349	507
# of standard map requests processed as identified in the Incident Management system	128	50	302	1,349	507
% of small quantity standard map requests processed as identified in the Incident Management System	100%	33%	100%	100%	100%
# of custom map requests	200	200	465	224	713
# of custom map requests processed as identified in the Incident Management system	200	200	465	224	713
% of small quantity custom map requests processed as identified in the Incident Management system	100%	100%	100%	100%	100%

ADMINISTRATION

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

