Geographic Information Systems (GIS)

Activity Overview

The Geographic Information Systems (GIS) Activity is part of the Planning Department and is responsible for coordination and management of complete, timely and accurate geographic information system data to support users of geographic data in effective operations and decision making within government.

The GIS Department regularly assists County departments and outside County affiliates in determining not only how GIS technology can address issues affecting existing workflows, but also what future opportunities it can provide. GIS is ideally suited to provide public information services or analytical capabilities for efficient government and provide outstanding, timely, and reliable services to County businesses and residents.

Activity Goals

- Increase accuracy of public safety information through annual countywide field mapping updates, continual critical edits and updates to GIS data, coordination of addressing with County 911. Coordinate with multiple public service entities to get the available data to be the best that it can be for residents of the community and strive to meet NENA's goal of 98% accuracy.
- Ensure accuracy of land records through partnerships with the Montana State Library and registered land surveyors by supporting the Planning department with zoning and other special taxable districts and synchronization with the Clerk and Recorder's Office via the GIS Technician.
- Provide value through internal management and maintenance of networked database data storage, development of internal user-driven applications and development of customer oriented web and mobile data applications (eliminating the need for additional software).
- Share spatial data with internal and external customers so that they can make educated, data driven decisions through intelligent creation of useful map products.
- Maintain data integrity by interfacing with other map services and updating web providers of public data such as the Census Bureau, Google and Here (fka Bing).
- Support the Census Bureau with programs such as BAS and LUCA in preparation of the 2020 Census.
- Develop Cooperative Projects - Identify joint Department projects as time and funding allows, identify required participants from departments and other Agencies and propose new ideas to customers as time permits.

Recent Accomplishments

- Development, maintenance and enhancements of various public and departmental web-based mapping applications are now being done in-house as opposed to contracting them out.
- Completed contract to have data analyzed for NexGen 911 process.
- Submitted grant proposal for software to be able to analyze data in-house for NexGen911 analyses.
- Assigned new addresses, again rivaling past record-setting years (second only to 2006).
- Fall project coordination with MSU students for a canal and ditch mapping project for Gallatin Irrigators; and a trail mapping project benefitting GVLT, Search and Rescue and Forest Service.
- Mapping support for County Attorney's Office, Compliance, Search & Rescue and other departments.
- Attended meetings and provided input regarding replacement of the 911 data management system.
- Presented at 2017 Intermountain GIS Conference on to-date work on NEXGen 911 transition.
- Served leadership role with the Montana Geospatial Community.
- Adjusted parcel boundaries to the PLSS CADNSDI.

GIS budget includes $14,000 for replacement of plotter. The department also has funds being set aside in the Copier Revolving Fund for replacement of their copier.

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Activity Budget

Object of Expenditure		Actual FY 2016		Final FY 2017		Actual FY 2017		Request FY 2018		Preliminary FY 2018		Final FY 2018
Personnel	$	152,938	$	195,748	$	194,456	$	198,592	$	202,924	$	204,238
Operations		56,694		47,568		38,873		51,082		51,082		51,082
Debt Service		-		-		-				-		-
Capital Outlay		-		9,283		-		14,960		14,960		14,960
Transfers Out		-		-		-		-		-		-
Total	$	**209,632**	$	**252,599**	$	**233,329**	$	**264,634**	$	**268,966**	$	**270,280**

Budget by Fund Group

		Actual FY 2016		Final FY 2017		Actual FY 2017		Request FY 2018		Preliminary FY 2018		Final FY 2018
General Fund	$	211,030	$	254,076	$	232,029	$	263,674	$	268,006	$	269,320
Special Revenue Funds		-		-		-		-		-		-
Debt Service Funds		-		-		-		-		-		-
Capital Project Funds		-		-		-		-		-		-
Enterprise Funds		-		-		-		-		-		-
Internal Service Funds		(1,398)		(1,477)		1,300		960		960		960
Trust & Agency Funds		-		-		-		-		-		-
Total	$	**209,632**	$	**252,599**	$	**233,329**	$	**264,634**	$	**268,966**	$	**270,280**

Funding Sources

		Actual FY 2016		Final FY 2017		Actual FY 2017		Request FY 2018		Preliminary FY 2018		Final FY 2018
Tax Revenues	$	108,245	$	111,988	$	110,868	$	123,395	$	107,520	$	116,192
Non-Tax Revenues		77,040		75,307		76,495		95,557		98,795		93,804
Cash Reappropriated		24,348		65,304		45,966		45,682		62,651		60,285
Total	$	**209,632**	$	**252,599**	$	**233,329**	$	**264,634**	$	**268,966**	$	**270,280**

Department Personnel

No. of Positions	FT/PT	Title	FTE 2016	FTE 2017	FTE 2018
0	Full-Time	GIS Manager	0.00	0.00	0.00
1	Full-Time	GIS Supervisor	1.00	1.00	1.00
0	Full-Time	GIS Analyst	0.00	1.00	1.00
1	Full-Time	GIS Technician	1.00	1.00	1.00
1	Full-Time	GIS Program Assistant	1.00	0.00	0.00
3		Total Program	3.00	3.00	3.00