

Geographic Information Systems (GIS)

Department Overview

The Geographic Information Systems (GIS) Department is responsible for coordination and management of complete, timely and accurate geographic information system (GIS) 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.

Department Goals

- Increase accuracy of public safety information through countywide field mapping updates, critical updates to GIS data, and large format and fire atlas maps with new availability of electronic formats.
- Increase accuracy of land records through a partnership with the Montana State Library and registered land surveyors, planning support of zoning and special districts, and completing AGAI/Conservation District Canal projects to map Gallatin County waterways.
- Provide value through useful map products with friendly service/assistance through a single answer point, networked database data storage and development of user-driven applications, customer oriented web data availability and mobile access where applicable.
- Design and develop web-based tools for customers, maintain current technology and platforms, manage internal editing of data, internal web-based tools for users eliminating the need for additional software, and public internet map tools delivering data for customer applications.
- Design intelligent mapping applications to assist users, maintain database and integrity of information, interfacing with other map services and updating commercial web providers of public data.
- Cooperative Plans - Identify joint Department projects as funding allows, identify required participants from Departments and Other Agencies and propose new ideas to customers as time permits.

Recent Accomplishments

- Annual GPS/GIS field data collection and Enhanced 911, Law Enforcement and Fire updates.
- Maintenance and enhancements of various public and departmental web-based mapping applications.
- Complete mapping and validation of addresses in West Yellowstone.
- Fire Atlas update, printing/delivery, and generation of new electronic pdf portable formats.
- Guenther Building evacuation floor maps.
- School Bus route maps and delivery maps for the Bozeman Chronicle.
- ARCPad Training and setup of new field collection software for the vehicle.
- LWQD Groundwater Database for efficient and backlog storage of geospatial groundwater data.
- Trailer park maps for the Sheriff.
- Address and address notification coordination with the US Post Office.
- SGR Training Classes for employees.
- Landfill time-lapse large scale photography maps.
- Moonlight Basin and Spanish Peaks Ski Patrol Zone maps.
- Full update to Landowner layer, Conservation Easements, Regional Parcels and others.
- Community Trails project with a local consultant and the Parks and Trails Commission.
- Fall Project with MSU consisting of canal and ditch mapping for Gallatin Irrigators.
- Participation and assistance with the Billings Intermountain GIS Conference.
- Subdivision development over time research and maps.
- Updates to County Precincts, House Districts and Commission Districts.
- Contract for Registered Land Surveyor GPS point collection of 16 townships in western Gallatin County.

GENERAL GOVERNMENT

Geographic Information Systems (GIS)

Department Budget

Object of Expenditure	Actual FY 2013	Final FY 2014	Actual FY 2014	Request FY 2015	Preliminary FY 2015	Final FY 2015
Personnel	\$ 201,823	\$ 214,856	\$ 210,434	\$ 210,444	\$ 219,925	\$ 221,578
Operations	57,743	88,865	82,782	67,642	67,642	69,142
Debt Service	-	-	-	-	-	-
Capital Outlay	-	12,115	9,862	4,253	4,253	4,253
Transfers Out	-	-	-	-	-	-
Total	\$ 259,566	\$ 315,836	\$ 303,078	\$ 282,339	\$ 291,820	\$ 294,973

Budget by Fund Group

General Fund	\$ 259,566	\$ 315,836	\$ 303,078	\$ 282,339	\$ 291,820	\$ 293,473
Special Revenue Funds	-	-	-	-	-	-
Debt Service Funds	-	-	-	-	-	-
Capital Project Funds	-	-	-	-	-	-
Enterprise Funds	-	-	-	-	-	-
Internal Service Funds	-	-	-	-	-	1,500
Trust & Agency Funds	-	-	-	-	-	-
Total	\$ 259,566	\$ 315,836	\$ 303,078	\$ 282,339	\$ 291,820	\$ 294,973

Funding Sources

Tax Revenues	\$ 157,538	\$ 135,992	\$ 133,272	\$ 141,614	\$ 160,595	\$ 148,915
Non-Tax Revenues	85,459	133,806	126,306	105,929	84,645	93,012
Cash Reappropriated	16,569	46,038	43,500	34,795	46,580	53,046
Total	\$ 259,566	\$ 315,836	\$ 303,078	\$ 282,339	\$ 291,820	\$ 294,973

Department Personnel

No. of Positions	FT/PT	Title	FTE 2013	FTE 2014	FTE 2015
1	Full-Time	GIS Manager	1.00	1.00	1.00
1	Full-Time	GIS Analyst	1.00	1.00	1.00
1	Full-Time	GIS Program Assistant	1.00	1.00	1.00
3		Total Program	3.00	3.00	3.00

Geographic Information Systems (GIS)

2015 Budget Highlights

Personnel

- The GIS Department will receive assistance from MSU students in the fall of 2014 to help map canals and ditches for the joint project with the Association of Gallatin Agricultural Irrigators.
- The Department is looking to form a better long-term partnership with MSU for student internships. These internships, for credit hours, will be used to assist with GIS projects not only for Gallatin County but municipalities, utilities and engineering firms in the region.

Operations

- Continuing project with Montana State Library to collect survey control data to assist with the adjustment of County land parcels and other layers of data. This will be the last year of data collection and will finish the north portion of the County. Remaining contract funds allocated in FY 2014 will carry over to FY 2015 to finish up this project and complete the billing to our Registered Land Surveyor.

Capital

- Capital Reserve \$4,253 – replacement of GPS equipment and large format plotter used for most hard-copy maps.

County Commission Goals/Department Response

The County Commission established a set of overarching goals for the County government. Listed below are the long-term goals followed by the methods by which the Department is striving to fulfill those goals.

Align community needs with budgetary decisions

- Increase accuracy of public safety information and complete ongoing updates to critical databases.

Adhere to long-term plans

- Increase the accuracy of land records in Gallatin County.
- Administer relational database model and promote multi-department integration.

Demonstrate exceptional Customer Service

- Provide counter friendly service and map product upkeep to the public.
- Provide value to the customer through useful map products.

Serve as a Model for Excellence in Government

- Design intelligent mapping applications.
- Promote safety and security.
- Outreach to the community with relevant GIS projects.

Improve communication within County Government, other jurisdictions and our public

- Training to other departments, the public and users.
- Provide web based tools to customers.

Be an Employer of Choice and improve employee retention

- Develop and adhere to individual development plans for staff.
- Maximize training opportunities to keep up with changing technology.

Geographic Information Systems (GIS)

Workload Indicators / Performance Measures

Workload Indicators		Actual	Actual	Actual	Projected
Indicator		FY 2012	FY 2013	FY 2014	FY 2015
1.	Addressing related	5	5	6	6
2.	Administrative/Operations/Meetings	12	10	9	9
3.	External Data & Maps requests	2	3	3	3
4.	Fire/911 specific	7	8	9	8
5.	Grant project work	3	3	3	2
6.	Internal GIS projects work	12	10	11	13
7.	Internal GIS request for service	12	11	12	12
8.	Training	3	2	3	3
9.	Web development	16	20	20	20
10.	Public and non-allocated	12	12	9	9
11.	Internal GIS database maintenance	16	16	15	15

Performance Measures		Actual	Actual	Actual	Projected
Measure		FY 2012	FY 2013	FY 2014	FY 2015
1.	Timeliness & completeness of updates (100% goal)	95%	95%	95%	96%
2.	Usefulness of data or application (Low, Med. High)	High	High	High	High
3.	Number of items collected or changed	35%	30%	35%	35%
4.	Customer feedback (Neg. or Pos.)	Positive	Positive	Positive	Positive
5.	Providing useful information to public	Improved	Innovative	Innovative	New Apps
6.	Efficiency of the database	Enterprise	Enterprise	Enterprise	Trustworthy
7.	Reliability of the information	Exceptional	Exceptional	Exceptional	Consistent

Comments