

## Part I – Agency Profile

### Agency Overview

The Idaho Geological Survey is the lead state agency for the collection, interpretation, and dissemination of geologic and mineral data for Idaho. The agency has served the state since 1919 and prior to 1984 was named the Idaho Bureau of Mines and Geology. The agency is staffed by about ten state-funded FTEs and 15-20 externally funded temporary and part-time employees.

Members of the Idaho Geological Survey staff acquire geologic information through field and laboratory investigations and through cooperative programs with other governmental and private agencies. The Idaho Geological Survey’s geologic mapping program is the primary applied research function of the agency. The Survey’s Digital Mapping Laboratory is central to compiling, producing, and delivering new digital geologic maps. Other main Idaho Geological Survey programs include geologic hazards, hydrology, mining, abandoned and inactive mines inventory, and earth science education outreach. Demand is expected to increase for geologic information related to population growth, minerals, energy, water resources, landslides, and earthquakes.

### Core Functions/Idaho Code

Idaho Code Title 47, Chapter 2, defines the authority, administration, advisory board members, functions and duty of the Idaho Geological Survey. The section contents:

- **Section 47-201:** Creates the Idaho Geological Survey to be administered as special program at the University of Idaho. Specifies the purpose as the lead state agency for the collection, interpretation and dissemination of geologic and mineral information. Establishes a survey advisory board and designates advisory board members and terms.
- **Section 47-202:** Provides for an annual meeting of the advisory board, and location of the chief office at the University of Idaho. Specifies the director of the Idaho Geological Survey report to the President of the University through the Vice President for Research. Specifies for the appointment of a state geologist.
- **Section 47-203:** Defines the duty of the Idaho Geological Survey to conduct statewide studies in the field and in the laboratory, and to prepare and publish reports on the geology, hydrology, geologic hazards and mineral resources of Idaho. Provides for establishment of a publication fund. Allows the Survey to seek and accept funded projects from, and to cooperate with, other agencies. Allows satellite offices at Boise State University and Idaho State University.
- **Section 47-204:** Specifies the preparation, contents, and delivery of a Survey Annual Report.

### Revenue and Expenditures

Revenue		FY 2013	FY 2014	FY 2015	FY 2016
General Fund		\$701,200	706,900	817,240	\$824,200
	<b>Total</b>	<b>\$701,200</b>	<b>\$706,900</b>	<b>\$817,240</b>	<b>\$824,200</b>
Expenditures		FY 2013	FY 2014	FY 2015	FY 2016
Personnel Costs		\$618,936	\$573,945	\$694,821	\$745,726
Operating Expenditures		\$19,478	\$87,772	\$48,690	\$65,898.52
Capital Outlay		\$62,786	\$45,183	\$73,729	\$12,575.48
Trustee/Benefit Payments		0	0	0	0
	<b>Total</b>	<b>\$701,200</b>	<b>\$706,900</b>	<b>\$817,240</b>	<b>\$824,200.00</b>

**Profile of Cases Managed and/or Key Services Provided**

Cases Managed and/or Key Services Provided	FY 2013	FY 2014	FY 2015	FY 2016
Square Miles of Geological Mapping	1029	427	267	467
Number of Educational Programs for Public Audiences	15	20	9	19
Number of Geologic Reports	18	18	14	10
Number of Geologic Presentations	9	15	24	9
Number of Website Viewers (no robot searches)	255,661	434,076	438,955	398,400
Number of Grants and Contracts	12	12	7	7

**Performance Highlights**

- Externally funded grant awards have increased for the last three fiscal years.
- The number of IGS website downloads has progressively increased over the last three fiscal years. The IGS has over 1000 publications and maps available for public download and also has an active point-of-sales office at the Moscow campus.
- The Director of IGS had a 45 minute one-on-one meeting with Governor Otter last year and the Governor approves of the direction, vision and changes that the Survey is currently taking.
- A petroleum geology research program has been recently added to the IGS and a petroleum geologist from Exxon Mobil has been hired last year to address the state’s newly discovered oil, natural gas and liquid condensate resources in southwestern Idaho.

**Part II – Performance Measures**

Performance Measure		FY 2013	FY 2014	FY 2015	FY 2016	Current Year
<b>Goal 1</b>						
Achieve excellence in collecting and disseminating geologic information and mineral data to the mining, energy, agriculture, utility, construction, insurance, and banking industries, educational institutions, civic and professional organizations, elected officials, governmental agencies, and the public. Continue to strive for increased efficiency and access to survey information primarily through publications, website products, in-house collections and customer inquiries. Emphasize website delivery of digital products and compliance with new revision of state documents requirements (Idaho Code 33-2505).						
1. Number of Publications on Geology/Hydrology/Hazards/Mineral Resources Goal 1. Objective 1	actual	38	32	27	39	-----
	benchmark	45	45	35	35	37
2. Number of Website Products Delivered/Used Goal 1. Objective 2	actual	182,442	132,454	157,540	185,635	-----
	benchmark	201,463	201,463	180,000	180,000	191,709
<b>Goal 2</b>						
Promote, foster, and sustain a climate for research excellence. Develop existing competitive strengths in geological expertise. Maintain national level recognition and research competitiveness in digital geological mapping and applied research activities. Sustain and build a strong research program through interdisciplinary collaboration with academic institutions, state and federal land management agencies and industry partners.						
3. Cumulative Percent of Idaho’s Area Covered by Modern Geologic Mapping Goal 2. Objective 1	actual	36.2	36.6	36.9	37.4	-----
	benchmark	36.4	36.4	36.4	36.4	37.8
4. Externally Funded Grant and Contract Dollars Goal 2. Objective 2:	actual	\$874,357	\$371,023	\$382,101	\$498,034	-----
	benchmark	531,085	531,085	531,085	\$531,085	457,794

## Performance Measure Explanatory Notes

- Performance Measure 1. Goal 1. Objective 1: Raised from 27 in FY15 to 39 in FY16
- Performance Measure 2. Goal 2. Objective 1: Cumulative Mapping of Idaho has increased from 36.9% to 37.4%
- Performance Measure 3. Goal 2. Objective 2: Raised from \$382,101 in FY15 to \$ 498,034 in FY16
- Performance Measure 4. Goal 1. Objective 2: Raised from 157,540 in FY15 to 185,635 in FY16
- Number of visits to Web Map Application site (11,066) (App went live in May 2014)
- Previous “Actual” reported website products delivered in FY13 were shown incorrectly at 359,100 and included “robot” searches. The “non-robot” and “actual” downloads from the IGS website in FY13 is corrected in the table above to show a more accurate and representative number of 182,442 downloads. (previous director computations have been reconciled in this document).

### IGS Grants and Contracts FY 2016

*Additional Geologic Mapping and Study of Hydrothermal Alteration, Mineralization and Geochronology in and near Stibnite Mining District, Idaho:* V.S. Gillerman and R.S. Lewis (Midas Gold Corporation July 2014- June 2016, \$70,000).

*Cooling in Fractured Geothermal Reservoirs: Software Tools:* J.A. Welhan, co-PI (DOE-INL LDRD, October 2012-September 2015, \$524,000).

*Data Preservation 8:* R.S. Lewis (U.S. Geological Survey, August 2015-August 2016, \$22,025).

*Geologic Mapping in the Rexburg, Boise-Weiser, and Salmon Areas:* R.S. Lewis, W.M. Phillips, D.M. Feeney (U.S. Geological Survey STATEMAP Program, June 2015 - May 2016, \$133,584).

*Geologic Mapping in the Rexburg, Weiser, and Salmon areas:* R.S. Lewis, W.M. Phillips, and D.M. Feeney (U.S. Geological Survey STATEMAP Program, June 2016- May 2017, \$167,755).

*Idaho Department of Lands Abandoned Mine Lands Project, Task 3:* R.S. Lewis (Idaho Department of Lands, December 2014-February 2017, \$122,560).

*Recruiting and Retaining Native American Students in the Geosciences:* J.A. Welhan (subcontract to ISU, NSF, December 2011-August 2016, \$17,122)

*Seismic Site Class and Liquefaction Susceptibility Study of Portions of Kootenai County, Idaho:* W.M. Phillips and L.R. Stanford (Boise State University, March 2015 – August 2015, \$11,219).

*Smith Ferry 7.5' Quadrangle Geologic Mapping:* R.S. Lewis and W.M. Phillips (Idaho Transportation Department, May 2015 – January 2017, \$45,000).

*Surficial and Bedrock Mapping of Burnt Log Road Corridor:* V.S. Gillerman and R.S. Lewis (Midas Gold, Inc., June 6, 2016 – September 30, 2017, \$ 27,277).

*USGS Geological Survey FY2014 Data Preservation Program:* R.S. Lewis (United States Geological Survey, September 2014-September 2015, \$15,150).

*USGS Geological Survey FY2015 Data Preservation Program:* R.S. Lewis (United States Geological Survey, September 2015-September 2016, \$22,025).

### For More Information Contact

Bob Smith  
 Senior Associate Vice President,  
 Research & Economic Development  
 University of Idaho  
 875 Perimeter Drive MS 3014  
 Moscow, Idaho 83844-3014  
 Phone: 208-885-2560  
 E-mail: [smithbob@uidaho.edu](mailto:smithbob@uidaho.edu)