



## 2017 USGS Budget Request

### Building a Landscape-Level Understanding of our Resources

The 2017 Budget Request for the USGS is \$1,168.8 million a net change of +\$106.7 million from the 2016 Enacted level.

2017 Budget Request ( Dollars in Thousands )					
Budget Authority	2015 Actual	2016 Enacted	2017		
Surveys, Investigations, and Research			Fixed Costs	Program Changes	Budget Request
Ecosystems	157,041	160,232	701	13,005	173,938
Climate and Land Use Change	135,975	139,975	304	31,165	171,444
Energy and Minerals, and Environmental Health	92,271	94,511	453	4,519	99,483
Natural Hazards	135,186	139,013	519	10,169	149,701
Water Resources	211,267	210,687	957	16,348	227,992
Core Science Systems	107,228	111,550	408	6,437	118,395
Science Support	105,611	105,611	164	4,817	110,592
Facilities	100,421	100,421	1,223	15,614	117,258
<b>USGS Total</b>	<b>1,045,000</b>	<b>1,062,000</b>	<b>4,729</b>	<b>102,074</b>	<b>1,168,803</b>

The USGS is a science organization that provides impartial information on the health of our ecosystems and environment, the natural hazards that threaten us, the natural resources we rely on, the impacts of climate and land-use change, and the core science systems that help us provide timely, relevant, and useable information. The USGS mission serves the Nation by providing reliable scientific information to describe and understand the Earth; minimize loss of life and property from natural disasters; manage water, biological, energy, and mineral resources; and enhance and protect our quality of life.

The USGS employs the best and the brightest experts who bring a range of earth and life science disciplines to bear on problems. By integrating our diverse scientific expertise, the USGS is able to understand complex natural science phenomena and provide scientific products that lead to solutions. Every day the 10,000 scientists, technicians, and support staff of the USGS are working for you in more than 400 locations throughout the United States.

**Highlights of the 2017 President's Budget by Strategic Goal for USGS include:**

#### Goal 1: Provide Shared Landscape-Level Management and Planning Tools

- Alaska Mapping and Map Modernization +\$1,500,000 for a total of \$6,722,000
- National Enhancement, Landscape-scale 3-D Maps +\$2,387,000 for a total of \$21,887,000
- Coastal Lidar +\$500,000 for a total of \$500,000
- Landscape Level Assessments – Chesapeake Bay +\$500,000 for a total of \$500,000

## **Goal 2: Provide Science to Understand, Model and Predict Ecosystem, Climate, and Land Use Change**

- Pollinators +\$2,055,000 for a total of \$2,405,000
- Arctic: +\$8,807,000 for a total of \$38,991,000
- Sage Steppe Landscape +\$3,000,000 for a total of \$6,511,000
- Rangeland Fire Response and Prevention +\$500,000 for a total of \$1,042,000
- New and Emerging Invasive Species of National Concern +\$2,500,000 for a total of \$8,212,000
- Great Lakes Fisheries Assessments +\$250,000 for a total of \$4,210,000
- Cooperative Research Unit Enhanced Support +\$750,000 for a total of \$18,121,000
- Great Lakes Climate Science Center +\$1,500,000 for a total of \$1,500,000
- Tribal Climate Science Partnerships +\$1,411,000 for a total of \$1,411,000
- Landsat 9 +\$15,400,000 for a total of \$19,700,000
- Sentinel-2 +\$2,200,000 for a total of \$2,200,000
- Landsat Products for Climate and Natural Resources Assessments +\$2,992,000 for a total of \$2,992,000
- Big Earth Data +\$600,000 for a total of \$600,000
- Imagery Data and Tools for Coastal Analysis +\$500,000 for a total of \$500,000
- Environmental Health on the Columbia River +\$100,000 for a total of \$200,000

## **Goal 3: Provide Scientific Data to Protect, Instruct, and Inform Communities**

- Earthquake Early Warning (EEW) System Total of \$8,200,000 (no increase)
- Central/Eastern U.S. Seismic Network Adoption +\$800,000 for a total of +\$800,000
- Landslide Response +\$500,000 for a total of \$1,600,000
- Global Seismographic Network (GSN) Primary Sensor Deployment +\$860,000 for a total of \$2,460,000
- Improved Geomagnetic Monitoring +\$1,700,000 for a total of \$1,700,000
- Building Landscape-Level Resilience to Coastal Hazards +\$2,109,000 for a total of \$6,235,000
- Environmental Impacts of Uranium Mining +\$2,023,000 for a total of \$3,173,000
- Unconventional Oil and Gas Research +\$3,625,000 for a total of \$16,704,000
- Evaluating Green Infrastructure Investment +\$211,000 for a total of \$286,000
- Resilient Coastal Landscapes and Communities: Contaminant Network Along the Northeast Coast +\$1,300,000 for a total of \$1,300,000:
- Ecosystems Science: Renewable Energy – Wind and Solar +\$150,000 for a total of \$1,645,000

## **Goal 4: Provide Water and Land Data to Customers**

- WaterSMART: + \$18,355,000 for a total of \$37,064,000
- Expand Use of Flood Inundation Mapping and Rapid Deployable Streamgages: +\$700,000 for a total of \$3,260,000
- Support National Water Quality Assessment (NAWQA) Project Cycle 3 +1,881,000 for a total of \$63,881,000
- Tribes +\$500,000 for a total of \$2,500,000
- Enhanced Cooperative Activities and Urban Waters +\$717,000 for a total of \$717,000
- Alternative Energy Permitting on Federal Lands – Geothermal +\$229,000 for a total of \$654,000
- Critical Minerals and Materials Flow Initiative +\$1,022,000 for a total of \$9,484,000
- R&D to Address Environmental Impacts of Minerals +\$559,000 for a total of \$5,559,000

## **Science Infrastructure**

- Science Mission and Infrastructure Support +2,617,000 for a total of \$2,617,000
- DOI Science Coordination +\$200,000 for a total of \$200,000
- Tribal Science Coordination +\$300,000 for a total of \$732,000
- Youth and Education in Science +1,000,000 for a total of \$2,530,000
- Mendenhall Program Postdocs +\$500,000 for a total of \$500,000
- Outreach to Youth in Underserved Communities +\$200,000 for a total of \$200,000
- Operations and Maintenance Stewardship +\$2,712,000 for a total of \$2,712,000
- Reducing the Facilities Footprint +10,902,000 for a total of \$10,902,000
- Sustainability Investments +\$2,200,000 for a total of \$2,200,000