

Federal Science Budget Outlook

Past, Present, and Future



2/25/2009
Gregory McNeill



United States Senate Budget Committee



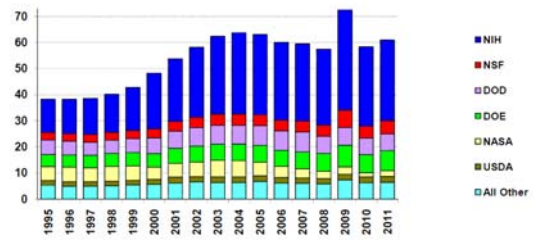
"To keep America competitive into the future, we must trust in the skill of our scientists and engineers and empower them to pursue the breakthroughs of tomorrow... So I ask Congress to double federal support for critical basic research in the physical sciences and ensure America remains the most dynamic nation on Earth."

- President George W. Bush
United States Capitol
January 28, 2008

"At such a difficult moment, there are those who say we cannot afford to invest in science, that support for research is somehow a luxury at moments defined by necessities. I fundamentally disagree. Science is more essential for our prosperity, our security, our health, our environment, and our quality of life than it has ever been before."

- President Barack Obama
April 27, 2009

Trends in Research by Agency, FY 1995-2011
in billions of constant FY 2010 dollars



FY 2009 figures include Recovery Act appropriations. Research includes basic research and applied research. FEB. '10 OSTP

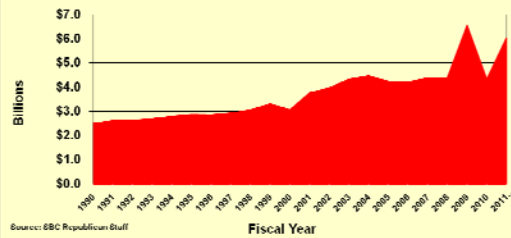
National Science Foundation

	R&RA Funding (Dollars in Millions)		FY 2010		FY 2011		Change over	
	FY 2009 Omnibus Actual	FY 2009 ARRA Actual	Estimate	Request	Estimate	Amount	FY 2010 Estimate	Percent
Biological Sciences	\$656.62	\$260.00	\$714.54	\$767.81	\$53.27			7.5%
Computer & Information Science & Engineering	574.50	255.00	618.83	684.51	65.68			10.6%
Engineering	664.99	264.99	743.93	825.67	81.74			11.0%
Geosciences	308.53	347.00	589.64	955.20	65.65			7.4%
Mathematical & Physical Sciences	1,243.88	474.97	1,351.84	1,409.91	58.07			4.3%
Social, Behavioral & Economic Sciences	240.56	84.97	255.25	268.79	13.54			5.3%
Office of Cyberinfrastructure	199.23	80.00	214.28	228.07	13.79			6.4%
Office of International Science & Engineering	47.45	13.98	47.83	53.26	5.43			11.4%
Office of Polar Programs ¹	473.55	171.89	451.16	527.99	76.83			17.0%
Integrative Activities	241.58	129.85	275.04	295.93	20.89			7.6%
U.S. Arctic Research Commission	1.50	-	1.58	1.60	0.02			1.3%

Total, R&RA: \$5,152.39 (FY 2009 Omnibus) | \$2,062.64 (FY 2009 ARRA) | \$5,563.92 (FY 2010 Estimate) | \$6,018.83 (FY 2011 Request) | \$4,549.1 (FY 2010 Estimate) | 8.2%

National Science Foundation

NSF RESEARCH AND RELATED ACTIVITIES
Constant \$

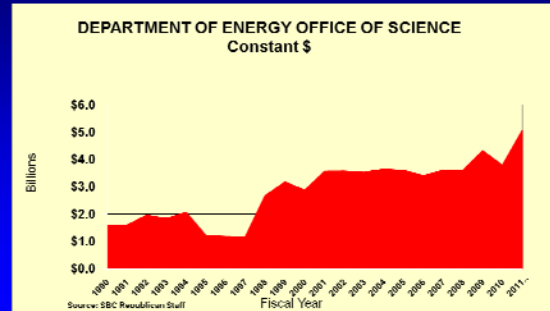


Source: GBC Republican Staff

Dep. Of Energy- Office of Science

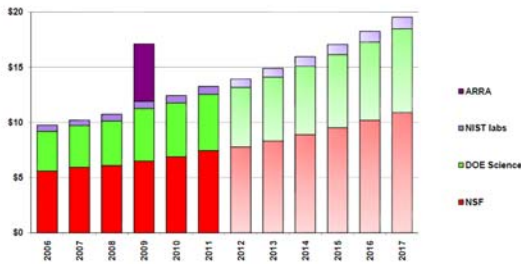
	(dollars in thousands)			
	FY 2009 Current Appropriation	FY 2009 Current Recovery Act Appropriation ^a	FY 2010 Current Appropriation	FY 2011 Request
Office of Science				
Advanced Scientific Computing Research	358,772	-161,793	394,000	426,000
Basic Energy Sciences	1,535,765	+555,406	1,636,500	1,835,000
Biological and Environmental Research	585,176	+165,853	604,182	626,900
Fusion Energy Sciences	394,518	+99,023	426,000	380,000
High Energy Physics	775,668	+232,300	810,483	829,000
Nuclear Physics	500,307	+154,800	535,000	562,000
Workforce Development for Teachers and Scientists	13,583	-12,500	20,678	35,600
Science Laboratories Infrastructure	145,380	-198,114	127,600	126,000
Safeguards and Security	80,003	0	83,000	86,500
Science Program Direction	186,695	+5,600	189,377	214,437
Small Business Innovation Research (SBIR) (CSC funding)	104,905 ^b	-18,719 ^b	0	0
Subtotal, Office of Science	4,681,572	+1,590,000^c	4,826,820	5,121,437
Congressionally-directed projects	91,064	0	76,890	0
SBIR/STTR (Other DOE funding)	49,534 ^d	+36,918 ^d	0	0
Subtotal, Office of Science	4,822,170	+1,632,918	4,903,710	5,121,437
Use of prior year balances	-15,000	0	0	0
Total, Office of Science	4,807,170	+1,632,918	4,903,710	5,121,437
Advanced Research Projects Agency-Energy (ARPA-E)	< 1,000 ^e	0	0	0
Total, Science Appropriation	4,813,470	+1,632,918	4,903,710	5,121,437

Dep. Of Energy- Office of Science



President's Plan for Science and Innovation, FY 2006-2017

(budget authority in billions of current dollars)



2006-2010 figures are enacted budget authority; 2012-2017 figures are projections in the 2011 budget.
FEBRUARY '10 OSTP

"Whether it's improving our health or harnessing clean energy, protecting our security or succeeding in the global economy, our future depends on reaffirming America's role as the world's engine of scientific discovery and technological innovation."

-President Barack Obama
OSTP Website