

Estimated R&D in *A Pledge to America* ‡

(budget authority in millions of dollars)



	FY 2010 Estimate	President's Budget			<i>A Pledge to America</i>			Change	
		FY 2011 Request †	Change FY 10-11		FY 2011 Pledge ‡	Change FY 10-11		Request - Pledge	
		Amount	Percent	Amount	Amount	Percent	Amount	Percent	
Total R&D (Conduct of R&D and R&D Facilities)									
Defense (DOD)	82,371	78,048	-4,323	-5.2%	78,048	-4,323	-5.2%	0	0.0%
<i>S&T (6.1-6.3 + medical)</i>	14,736	12,333	-2,403	-16.3%	12,333	-2,403	-16.3%	0	0.0%
<i>All Other DOD R&D</i>	67,635	65,715	-1,920	-2.8%	65,715	-1,920	-2.8%	0	0.0%
Health and Human Services (HHS)	31,173	32,152	979	3.1%	29,250	-1,923	-6.2%	-2,902	-9.0%
<i>National Institutes of Health (NIH)</i>	30,438	31,394	956	3.1%	28,532	-1,906	-6.3%	-2,862	-9.1%
<i>(Number of Research Grants)</i>	(44,984)	(45,262)	(278)	0.6%	(41,136)	(-3,848)	-8.6%	(-4,126)	-9.1%
<i>All Other HHS R&D</i>	735	758	23	3.1%	718	-17	-2.3%	-40	-5.3%
Energy (DOE)	10,693	11,219	526	4.9%	9,953	-740	-6.9%	-1,266	-11.3%
<i>Atomic Energy Defense (NNSA)</i>	3,948	4,147	199	5.0%	4,147	199	5.0%	0	0.0%
<i>Office of Science (OS)</i>	4,470	4,642	172	3.8%	3,807	-663	-14.8%	-835	-18.0%
<i>Energy Programs</i>	2,275	2,430	155	6.8%	1,999	-276	-12.1%	-431	-17.7%
NASA 1/	9,324	10,986	1,662	17.8%	9,315	-9	-0.1%	-1,671	-15.2%
National Science Foundation (NSF)	5,068	5,547	479	9.4%	4,506	-562	-11.1%	-1,041	-18.8%
<i>(Number of Competitive Awards)</i>	(11,387)	(12,291)	(904)	7.9%	(9,984)	(-1,403)	-12.3%	(-2,307)	-18.8%
Agriculture (USDA)	2,591	2,448	-143	-5.5%	2,332	-259	-10.0%	-116	-4.7%
Commerce (DOC)	1,422	1,716	295	20.7%	1,180	-242	-17.0%	-536	-31.3%
<i>NOAA</i>	778	949	171	22.0%	625	-153	-19.7%	-324	-34.1%
<i>NIST</i>	580	705	125	21.6%	498	-82	-14.1%	-207	-29.4%
Veterans Affairs (VA)	1,162	1,180	18	1.5%	1,180	18	1.5%	0	0.0%
Homeland Security (DHS)	1,150	1,046	-104	-9.0%	1,046	-104	-9.0%	0	0.0%
Transportation (DOT)	989	976	-13	-1.3%	875	-114	-11.5%	-101	-10.3%
Interior (DOI)	756	772	17	2.2%	683	-73	-9.6%	-89	-11.5%
Environ Protection Agency (EPA)	595	606	11	1.8%	548	-47	-7.8%	-58	-9.5%
Education (DOEd)	348	383	35	10.1%	313	-35	-10.1%	-70	-18.3%
Other	859	991	132	15.4%	761	-98	-11.4%	-230	-23.2%
Total R&D	148,500	148,071	-429	-0.3%	139,991	-8,509	-5.7%	-8,080	-5.5%
Defense R&D	86,319	82,195	-4,124	-4.8%	82,195	-4,124	-4.8%	0	0.0%
Nondefense R&D	62,181	65,875	3,694	5.9%	57,795	-4,385	-7.1%	-8,080	-12.3%
Total Discretionary (in billions)	1,247	1,265	18	1.4%	1,234	-13	-1.1%	-31	-2.4%

Source: OMB R&D data, agency budget justifications, agency budget documents, *A Pledge to America* (<http://pledge.gov>), and Rep. John Boehner's (R-OH) Sept 8 press release (<http://gopleader.gov>).

All figures are rounded to the nearest million. Changes calculated from unrounded figures

† AAAS estimates based on *Budget of the U.S. Government, FY 2011* as prepared by Pres. Obama and the Office of Management and Budget. The Administration's budget cuts are expected to occur in the FY 2012 budget. President Obama has directed agencies to submit FY 2012 discretionary budgets that are 5% less than those originally projected in the FY 2011 budget request

‡ AAAS estimates based on the Republican agenda, *A Pledge to America*, and Rep. John Boehner's (R-OH) Sept 8 press release. "Pre-stimulus, pre-bailout levels" in *A Pledge to America* is interpreted to be FY 2008 levels as proposed in Rep. John Boehner's (R-OH) Sept 8 press release. "Common-sense exceptions for seniors, veterans, and our troops" in *A Pledge to America* and "programs affecting seniors, veterans, and national security" in Rep. John Boehner's (R-OH) Sept 8 press release are interpreted to exempt the Department of Defense, the National Nuclear Security Administration, the Department of Veterans Affairs, and the Department of Homeland Security from budget roll backs.

1/ NASA adjusted its R&D investment reporting for the FY 2011 budget request. The FY 2008 figure is an estimate of R&D investment under the current reporting method.

Note: FY 2008 R&D investment figures are likely a generous R&D estimate under *A Pledge to America* proposal as other agency budget items such as employee salaries, operations and maintenance, and income security programs have grown since FY 2008 and are typically less vulnerable to budget cuts than R&D programs.