

TABLE 92

**Federal obligations for basic research, by detailed field of science and engineering: FYs 2004–14**

(Dollars in millions)

Field	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
All fields	26,121	27,140	26,585	26,866	27,154	32,879	31,795	29,314	30,959	29,779	31,588
Computer sciences and mathematics	1,239	1,228	1,208	1,294	1,407	1,861	1,663	1,788	1,795	1,691	1,918
Computer sciences	712	658	671	708	734	978	874	936	922	860	959
Mathematics	479	543	519	561	645	804	717	741	806	757	824
Other computer sciences and mathematics	48	28	19	24	29	79	73	111	66	73	134
Engineering	2,272	2,300	2,365	2,630	2,736	3,406	3,491	3,168	3,459	3,408	3,545
Aeronautical engineering	304	318	243	195	150	185	151	153	402	409	447
Astronautical engineering	67	73	58	44	32	35	32	33	79	85	93
Chemical engineering	69	67	68	109	112	168	143	183	94	84	104
Civil engineering	56	62	67	124	126	186	155	149	35	28	28
Electrical engineering	200	213	205	246	221	297	295	281	299	259	248
Mechanical engineering	90	77	70	78	66	84	80	82	156	147	129
Metallurgy and materials engineering	592	666	811	960	993	1,113	1,091	1,077	1,186	1,201	1,233
Other engineering	895	826	842	875	1,036	1,338	1,544	1,209	1,207	1,194	1,264
Environmental sciences	2,023	1,966	1,849	1,728	1,593	2,143	1,787	1,796	2,259	2,396	2,753
Atmospheric sciences	727	744	666	584	523	650	597	612	952	995	1,037
Geological sciences	482	470	445	427	303	430	333	396	502	411	418
Oceanography	453	431	416	437	434	549	472	483	494	457	483
Other environmental sciences	362	321	322	280	333	514	386	305	310	533	816
Life sciences	14,490	15,248	14,934	15,643	15,557	17,587	17,748	15,373	16,016	15,317	16,019
Agricultural sciences	504	511	514	533	495	531	571	547	480	462	514
Biological sciences (excluding environmental biology)	7,223	7,608	7,700	8,076	8,259	9,600	9,417	8,277	8,317	7,919	8,284
Environmental biology	329	339	344	351	368	467	435	435	407	384	395
Medical sciences	5,477	5,703	5,454	5,504	5,314	5,748	5,787	5,086	5,528	5,326	5,564
Other life sciences	957	1,087	922	1,180	1,122	1,241	1,537	1,029	1,283	1,226	1,263
Physical sciences	3,663	3,739	3,516	3,544	3,403	4,121	3,984	3,815	4,557	4,432	4,637
Astronomy	765	778	687	593	483	618	504	499	925	974	1,036
Chemistry	776	764	721	733	726	835	828	774	776	715	722
Physics	1,905	1,996	1,911	2,012	1,987	2,370	2,377	2,275	2,568	2,469	2,576
Other physical sciences	217	200	197	207	208	298	275	267	287	275	303
Psychology	979	1,040	945	979	936	1,100	1,129	979	1,088	1,016	1,038
Biological aspects	1	*	1	1	1	2	10	13	13	14	14
Social aspects	5	4	5	5	7	19	18	17	13	16	13
Other psychological sciences	973	1,035	939	972	929	1,080	1,101	949	1,061	986	1,011
Social sciences	419	391	381	361	330	432	359	371	381	374	386
Anthropology	13	15	14	15	15	28	24	26	27	24	24

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(Dollars in millions)

Field	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Economics	48	51	46	52	44	52	44	54	55	58	58
Political science	7	11	11	9	16	13	10	9	10	9	12
Sociology	49	18	19	41	14	33	30	36	39	24	31
Other social sciences	303	296	290	244	241	306	251	246	251	258	261
Other sciences nec	1,036	1,228	1,386	686	1,191	2,228	1,633	2,023	1,405	1,146	1,292

\* = amount greater than \$0 but less than \$500,000.

nec = not elsewhere classified.

**Note(s):**

Because of rounding, detail may not add to total. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.