

Table. Historical Data on Federal R&D, FY 1976-2009

Historical Table 1. Total R&D by Agency, FY 1976-2009
(budget authority in millions of dollars)

MARCH 2008 REVISED

fiscal years	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
DOD	10,067	11,478	11,944	12,958	14,021	17,363	20,848	23,673	27,935	31,978	35,000	37,136	38,126	38,578	37,869	37,209	37,779	38,848	35,510	35,349	35,783	37,238	37,569	38,888	39,960	42,740	49,877	59,296	65,948	70,269	
NASA	3,529	3,795	4,038	4,559	5,243	5,523	4,589	2,735	2,994	3,562	3,729	4,332	4,687	5,920	7,112	8,124	8,544	8,815	9,406	9,459	9,432	9,352	9,751	9,717	9,494	9,887	10,224	10,681	10,803	10,618	
DOE	3,069	4,154	5,053	5,442	5,769	6,156	5,406	5,165	5,637	5,979	5,540	5,422	5,821	6,255	6,988	7,339	8,133	7,444	6,771	6,416	6,273	6,217	6,351	6,966	6,956	7,733	8,078	8,454	8,713	8,620	
HHS	2,602	2,874	3,398	3,530	3,806	4,012	3,939	4,371	4,875	5,502	5,653	6,669	7,218	7,964	8,533	9,566	10,180	10,472	11,324	11,517	12,033	12,912	13,842	15,825	18,182	21,045	24,016	27,696	28,521	29,171	
NIH *	2,263	2,483	2,840	3,222	3,445	3,570	3,696	4,053	4,622	5,265	5,412	6,403	6,918	7,551	8,107	8,977	9,624	9,891	10,474	10,762	11,425	12,217	13,110	14,995	17,234	19,807	22,714	26,398	27,248	27,875	
NSF	669	724	789	838	912	957	974	1,059	1,248	1,419	1,400	1,527	1,587	1,762	1,729	1,893	1,972	2,014	2,243	2,396	2,391	2,424	2,501	2,670	2,931	3,320	3,525	3,926	4,123	4,102	
USDA	518	543	633	716	715	817	830	885	976	1,002	960	1,092	1,117	1,139	1,223	1,391	1,519	1,467	1,528	1,487	1,488	1,556	1,561	1,645	1,776	2,181	2,112	2,343	2,222	2,418	
Interior	325	327	363	410	410	412	385	388	364	389	383	408	426	480	531	620	643	649	708	668	571	591	536	499	618	621	623	643	627	621	
DOT	322	331	373	350	397	407	312	371	489	439	379	309	314	326	354	411	621	621	641	666	601	612	590	607	607	718	778	700	665	707	
EPA	273	292	379	384	342	375	285	232	249	306	324	345	374	397	424	459	493	497	588	554	482	595	637	669	558	574	592	567	662	641	
DOC	231	253	281	332	358	345	308	325	363	392	395	417	410	427	453	537	583	793	1,022	1,118	992	964	1,091	1,084	1,174	1,030	1,227	1,197	1,120	1,121	
DHS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	266	737	1,028	1,240	
VA	114	113	115	123	136	159	139	161	197	214	185	223	197	218	218	224	250	253	277	263	263	588	587	644	645	719	756	817	866	742	
Other	336	387	399	809	935	801	723	676	681	554	673	765	755	819	1,013	974	1,224	1,055	1,058	1,055	896	883	927	957	868	965	1,025	1,064	1,023	1,037	
Total R&D	22,055	25,271	27,765	30,451	33,044	37,327	38,738	40,042	46,007	51,734	54,621	58,645	61,033	64,284	66,446	68,747	71,941	72,928	71,074	70,948	71,206	73,934	75,942	80,171	83,769	91,534	103,100	118,120	126,321	131,308	
R&D:																															
Defense	11,065	12,478	13,258	14,300	15,430	19,022	22,898	25,648	30,498	34,714	37,644	39,833	40,972	41,579	40,978	40,375	41,231	42,114	38,299	37,833	38,465	40,047	40,571	42,085	43,161	46,202	53,731	63,708	70,344	74,641	
Nondef.	10,990	12,793	14,507	16,151	17,614	18,305	15,840	14,393	15,510	17,020	16,977	18,812	20,061	22,705	25,467	28,372	30,709	30,815	32,775	33,115	32,767	33,886	35,307	38,086	40,608	45,332	49,368	54,413	55,978	56,667	
Basic [^]	2,469	2,892	3,982	4,492	5,108	5,107	5,440	6,243	7,065	7,795	8,161	9,014	9,506	10,618	11,279	12,407	12,943	13,444	13,693	13,772	14,442	14,961	15,523	17,433	19,470	21,376	23,848	25,323	26,529	27,678	

Source: AAAS Reports I through XXXIII, based on OMB and agency R&D budget data.

Includes conduct of R&D and R&D facilities.

* Between FY 1991 and 1992, R&D from ADAMHA (HHS) transferred to NIH. ADAMHA R&D included in NIH totals for all years.

** - Latest estimates of FY 2008 appropriations.

*** - Latest AAAS estimates of R&D in the FY 2009 request.

[^] - Basic Research

Table. Historical Data on Federal R&D, FY 1976-2009

Historical Table 2. Total R&D by Agency, FY 1976-2009

MARCH 2008 REVISED

(budget authority in millions of CONSTANT FY 2008 dollars)

fiscal years	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
DOD	31,152	33,043	32,215	32,345	32,177	36,293	40,786	44,354	50,477	55,965	59,861	61,898	61,610	60,009	56,797	53,787	53,272	53,565	47,931	46,731	46,413	47,472	47,319	48,346	48,695	50,882	58,263	67,892	73,594	75,980	
NASA	10,920	10,925	10,891	11,380	12,032	11,544	8,978	5,124	5,410	6,233	6,377	7,221	7,574	9,208	10,666	11,744	12,048	12,154	12,696	12,505	12,234	11,922	12,282	12,081	11,570	11,771	11,943	12,230	12,056	11,481	
DOE	9,497	11,959	13,629	13,584	13,239	12,867	10,576	9,677	10,185	10,463	9,475	9,038	9,407	9,730	10,481	10,608	11,469	10,264	9,140	8,482	8,137	7,926	7,999	8,660	8,477	9,206	9,437	9,679	9,723	9,320	
HHS	8,052	8,274	9,165	8,811	8,734	8,386	7,706	8,190	8,808	9,629	9,668	11,116	11,665	12,388	12,798	13,829	14,354	14,440	15,284	15,225	15,608	16,460	17,434	19,674	22,157	25,054	28,054	31,711	31,827	31,542	
NIH *	7,003	7,148	7,659	8,042	7,907	7,461	7,231	7,594	8,352	9,215	9,257	10,672	11,179	11,745	12,159	12,977	13,571	13,638	14,137	14,227	14,818	15,575	16,512	18,643	21,002	23,580	26,533	30,225	30,407	30,140	
NSF	2,070	2,084	2,128	2,092	2,093	2,000	1,905	1,984	2,255	2,484	2,394	2,545	2,565	2,741	2,593	2,737	2,780	2,776	3,027	3,167	3,101	3,091	3,150	3,319	3,572	3,953	4,118	4,496	4,601	4,436	
USDA	1,603	1,563	1,707	1,787	1,641	1,708	1,624	1,658	1,764	1,754	1,642	1,820	1,805	1,772	1,835	2,011	2,142	2,023	2,063	1,966	1,930	1,984	1,966	2,045	2,164	2,597	2,467	2,682	2,480	2,615	
Interior	1,006	941	979	1,023	941	861	753	726	657	680	656	680	688	746	796	896	907	895	955	883	741	754	675	620	753	739	728	736	699	672	
DOT	996	953	1,006	874	911	851	610	696	884	768	648	515	508	508	530	594	876	856	865	880	780	780	743	755	740	855	909	801	742	764	
EPA	845	841	1,022	959	785	784	558	435	450	535	553	575	604	618	636	663	694	685	794	732	626	759	802	831	680	683	691	649	739	693	
DOC	715	728	758	829	822	721	603	609	656	685	676	696	662	664	679	776	823	1,094	1,379	1,478	1,287	1,229	1,374	1,347	1,430	1,226	1,433	1,371	1,250	1,213	
DHS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	311	844	1,148	1,341	
VA	353	325	310	307	312	332	272	302	356	375	317	372	319	339	327	324	352	349	373	348	341	750	739	801	786	856	883	935	966	802	
Other	1,040	1,114	1,076	2,019	2,146	1,674	1,414	1,267	1,231	970	1,152	1,275	1,220	1,274	1,519	1,407	1,726	1,455	1,428	1,395	1,162	1,126	1,168	1,190	1,058	1,149	1,198	1,218	1,142	1,121	
Total R&D	68,248	72,750	74,888	76,009	75,833	78,022	75,784	75,022	83,133	90,540	93,419	97,750	98,626	99,995	99,656	99,377	101,443	100,555	95,936	93,792	92,359	94,252	95,652	99,670	102,081	108,972	120,435	135,245	140,966	141,980	
R&D:																															
Defense	34,240	35,922	35,759	35,694	35,411	39,760	44,797	48,055	55,108	60,754	64,383	66,394	66,209	64,678	61,460	58,364	58,140	58,067	51,696	50,014	49,892	51,053	51,101	52,321	52,596	55,003	62,766	72,944	78,499	80,708	
Nondef.	34,008	36,829	39,129	40,315	40,423	38,262	30,988	26,967	28,025	29,787	29,036	31,356	32,418	35,318	38,196	41,012	43,303	42,488	44,239	43,777	42,501	43,199	44,470	47,349	49,485	53,968	57,669	62,302	62,468	61,273	
Basic^	7,640	8,326	10,740	11,213	11,722	10,675	10,642	11,697	12,765	13,643	13,958	15,025	15,361	16,516	16,916	17,935	18,251	18,537	18,483	18,206	18,733	19,073	19,552	21,673	23,726	25,448	27,858	28,995	29,604	29,928	

Source: AAAS Reports I through XXXIII, based on OMB and agency R&D budget data.

Includes conduct of R&D and R&D facilities.

Constant dollar conversions based on OMB's GDP deflators from the FY 2009 budget.

* Between FY 1991 and 1992, R&D from ADAMHA (HHS) transferred to NIH. ADAMHA R&D included in NIH totals for all years.

** - Latest estimates of FY 2008 appropriations.

*** - Latest AAAS estimates of R&D in the FY 2009 request.

^ - Basic Research

Table. Historical Data on Federal R&D, FY 1976-2009

Historical Tabl
(budget authorit

fiscal years	2006	2007	2008**	2009***
DOD	74,289	79,009	77,782	80,688
NASA	11,295	11,582	12,188	12,780
DOE	8,584	9,035	9,661	10,519
HHS	28,976	29,621	29,816	29,973
NIH *	27,747	28,350	28,676	28,666
NSF	4,183	4,440	4,479	5,175
USDA	2,438	2,275	2,324	1,955
Interior	639	647	676	618
DOT	817	767	820	902
EPA	622	557	548	541
DOC	1,062	1,073	1,138	1,152
DHS	1,300	996	992	1,033
VA	769	819	891	884
Other	1,088	1,113	1,140	1,145
Total R&D	136,063	141,933	142,456	147,364
R&D:				
Defense	78,737	82,658	81,500	84,513
Nondef.	57,349	59,276	60,956	62,851
Basic^	27,336	28,166	28,694	29,656

Source: AAAS f
Includes conduc
* Between FY 1
** - Latest estim
*** - Latest AAA
^ - Basic Resea

Table. Historical Data on Federal R&D, FY 1976-2009

Historical Tabl
(budget authorit

fiscal years	2006	2007	2008**	2009***
DOD	77,754	80,535	77,782	79,091
NASA	11,821	11,806	12,188	12,527
DOE	8,984	9,209	9,661	10,310
HHS	30,327	30,193	29,816	29,380
NIH *	29,041	28,898	28,676	28,099
NSF	4,378	4,526	4,479	5,073
USDA	2,552	2,319	2,324	1,916
Interior	669	659	676	606
DOT	856	782	820	884
EPA	650	567	548	530
DOC	1,112	1,093	1,138	1,129
DHS	1,360	1,016	992	1,013
VA	805	835	891	867
Other	1,139	1,135	1,140	1,122
Total R&D	142,409	144,676	142,456	144,448
R&D:				
Defense	82,409	84,255	81,500	82,841
Nondef.	60,023	60,421	60,956	61,607
Basic^	28,611	28,710	28,694	29,069

Source: AAAS f
Includes conduc
Constant dollar
* Between FY 1
** - Latest estim
*** - Latest AAA
^ - Basic Resea