

Table H1. Federal obligations for R&D by State:
fiscal years 1970-2001 (obligations in millions of constant FY 2003 dollars)

State	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	61,050	59,352	60,395	59,153	56,811	56,129	57,044	60,946	62,144	62,145	60,445	60,990	62,733	63,634	67,697	74,801	77,221	81,058	80,787	83,389
Alabama	1,414	1,365	1,310	1,309	1,227	1,078	1,048	1,059	1,034	1,134	1,009	932	969	1,108	1,292	1,432	1,833	2,016	1,989	2,292
Alaska	172	223	167	145	81	108	104	98	117	102	85	95	68	101	75	98	74	71	80	97
Arizona	293	337	330	327	330	341	339	363	465	517	674	672	452	776	611	704	596	630	550	703
Arkansas	39	78	48	58	47	70	74	68	102	82	61	58	76	54	56	62	62	77	80	81
California	15,585	12,808	12,885	13,613	13,504	14,481	15,296	15,350	14,389	14,705	12,977	13,529	15,747	14,005	14,689	17,064	17,647	20,261	21,533	22,144
Colorado	1,100	1,022	1,380	1,485	1,061	792	706	849	955	986	1,221	1,205	979	785	921	1,010	2,464	2,219	2,054	2,274
Connecticut	641	568	616	673	765	794	654	745	713	744	945	903	793	1,225	1,074	1,147	863	976	872	809
Delaware	64	49	62	140	34	29	22	39	26	31	43	50	59	34	101	54	46	48	52	43
District of Columbia	1,871	1,827	1,688	1,789	1,772	1,707	1,604	1,864	1,891	1,725	1,646	1,740	1,687	1,997	2,931	3,314	3,507	3,241	4,132	2,614
Florida	3,379	3,455	3,834	3,403	2,674	2,591	2,343	2,591	2,291	2,093	2,340	2,556	3,087	2,148	1,939	1,906	2,238	3,427	3,119	3,207
Georgia	293	304	264	232	228	236	251	283	372	405	342	359	373	391	393	450	397	544	496	546
Hawaii	175	152	173	166	171	143	131	94	107	90	86	92	76	119	84	90	82	94	125	132
Idaho	386	359	291	302	202	242	250	368	337	412	386	240	253	398	327	409	434	364	407	281
Illinois	1,317	1,254	1,287	1,276	1,180	1,163	1,245	1,435	1,503	1,329	1,346	1,181	1,054	1,059	1,194	1,348	1,255	1,337	1,303	1,358
Indiana	364	283	362	285	304	269	253	261	256	268	327	313	319	351	377	355	441	501	441	533
Iowa	133	129	139	136	150	141	134	155	167	190	250	273	236	160	218	232	339	269	282	267
Kansas	66	92	112	105	94	95	87	92	252	298	709	861	1,089	160	161	214	229	209	178	176
Kentucky	84	88	115	131	101	102	138	143	146	100	216	192	168	153	90	106	89	92	96	99
Louisiana	581	357	373	316	248	296	348	404	433	493	419	632	442	309	209	184	141	160	187	307
Maine	53	51	60	33	34	35	42	46	60	51	52	45	41	48	60	56	53	259	56	92
Maryland	4,268	4,616	4,852	5,098	5,091	4,789	5,008	5,223	5,128	5,159	5,047	4,818	5,007	5,713	6,464	6,897	6,845	6,016	6,231	6,723
Massachusetts	3,039	3,349	3,501	3,300	3,836	3,597	3,521	3,772	4,054	4,566	4,145	4,463	4,778	4,234	4,646	5,104	4,858	5,727	3,929	3,974
Michigan	656	706	678	544	630	724	608	801	872	583	773	670	656	676	766	774	688	674	593	935
Minnesota	433	401	459	414	417	358	417	471	422	444	525	565	647	734	1,009	1,099	770	736	811	811
Mississippi	115	177	219	242	293	182	205	269	220	228	232	235	225	314	251	283	234	324	287	324
Missouri	1,164	2,247	2,437	2,087	1,242	970	1,097	1,615	1,955	1,712	1,688	1,502	1,566	953	1,046	1,066	1,018	899	900	1,685
Montana	46	68	68	68	44	83	81	123	65	93	99	83	73	58	42	40	40	44	50	49
Nebraska	45	43	48	49	52	60	61	62	80	70	67	59	56	70	53	53	72	73	79	73
Nevada	820	660	565	541	390	469	519	502	508	537	475	632	694	1,112	866	986	794	797	768	672
New Hampshire	108	135	82	106	97	106	100	88	165	217	101	114	87	127	184	200	203	122	86	133
New Jersey	2,943	2,813	2,787	2,231	1,525	1,316	1,404	1,591	1,461	1,558	1,583	1,518	1,613	2,184	2,528	2,797	2,712	1,676	1,773	1,850
New Mexico	2,003	1,923	1,767	1,765	1,865	1,807	1,905	2,242	2,569	2,388	2,252	2,454	2,594	3,265	3,481	3,989	4,014	3,272	3,551	3,329
New York	4,972	4,325	3,932	3,480	3,533	3,206	3,103	3,189	3,180	3,124	3,127	3,001	3,001	4,253	4,209	4,892	4,873	4,433	3,940	4,067
North Carolina	264	312	320	365	366	340	379	558	462	491	473	477	468	518	602	757	745	852	880	767
North Dakota	35	34	40	33	34	39	41	50	72	76	86	76	64	46	61	52	54	44	59	53
Ohio	1,881	1,981	1,916	1,777	1,879	1,742	1,738	1,904	2,081	2,359	2,194	2,160	1,790	1,926	2,234	2,393	2,402	2,788	2,717	2,718
Oklahoma	117	99	105	120	96	101	87	122	250	154	196	155	114	113	105	127	108	146	161	165
Oregon	142	162	197	221	192	233	235	214	231	220	204	195	182	177	223	233	208	230	251	269
Pennsylvania	2,198	2,121	2,435	2,200	2,184	2,320	2,296	2,132	2,417	2,502	2,194	2,152	2,019	1,950	1,833	2,059	1,969	2,501	2,512	2,761
Rhode Island	123	197	257	218	242	232	288	291	290	315	306	336	417	441	484	559	594	540	474	427
South Carolina	77	93	99	93	117	83	93	175	295	270	181	210	280	252	420	195	191	208	220	313
South Dakota	32	42	40	42	41	20	20	21	22	26	26	20	34	21	22	22	22	19	19	21
Tennessee	816	758	744	847	882	954	1,216	1,472	1,623	1,527	1,609	1,770	1,310	757	973	901	927	1,105	877	859
Texas	2,588	2,259	2,377	2,272	2,108	2,095	2,290	2,092	2,396	2,204	1,849	1,910	1,818	2,318	2,340	2,571	2,969	3,390	3,591	4,447
Utah	244	211	215	230	233	239	277	339	401	468	493	561	497	440	370	387	430	641	659	717
Vermont	37	53	86	61	84	92	108	92	56	36	73	34	61	39	53	55	61	59	90	83
Virginia	1,403	1,620	1,938	1,972	2,102	2,176	2,068	2,029	2,091	2,154	2,206	2,010	2,201	3,787	3,627	3,816	4,258	3,456	3,983	3,931
Washington	1,684	2,343	2,035	2,112	2,410	2,441	2,192	2,502	2,351	2,076	2,165	2,076	1,912	1,180	1,412	1,633	1,760	2,762	2,525	2,438
West Virginia	85	122	109	111	86	140	146	170	213	262	330	283	157	173	123	119	147	192	192	177
Wisconsin	346	359	290	277	277	238	248	240	287	248	249	247	223	236	278	315	275	303	316	362
Wyoming	31	32	35	37	35	48	53	62	98	92	117	110	45	47	54	39	22	35	41	52

SOURCE: National Science Foundation, Federal Funds for R&D Historical Tables, 2002, and Federal Funds for R&D, FY 2001-2003, 2003. Constant-dollar conversions are based on GDP deflators from OMB. Total includes outlying areas and offices abroad.

Table H1. Federal obligations for R&D by State:
fiscal years 1970-2001 (obligations in millions of constant FY 2003 dollars)

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Total	83,894	78,663	82,014	82,187	79,534	78,871	76,335	77,486	78,707	81,226	79,595	84,213
Alabama	2,497	2,546	3,055	3,007	2,237	2,261	2,500	2,484	2,227	2,007	1,918	2,601
Alaska	133	129	115	112	287	112	105	113	116	123	155	218
Arizona	775	669	790	660	960	1,082	796	808	1,086	1,197	1,183	1,830
Arkansas	115	114	90	98	108	116	180	120	126	117	126	193
California	21,788	18,659	20,005	18,341	13,401	14,895	14,587	15,574	13,728	17,209	15,326	13,561
Colorado	2,504	3,445	1,877	1,641	1,629	1,237	1,465	1,533	1,519	1,587	1,476	1,431
Connecticut	667	848	711	641	862	1,037	900	937	762	704	943	1,470
Delaware	37	53	53	70	60	68	75	57	50	57	74	72
District of Columbia	2,087	2,460	2,695	2,989	2,917	3,157	2,894	2,465	2,434	2,683	2,521	2,700
Florida	3,145	2,903	3,639	3,403	3,518	2,784	3,392	3,734	3,062	2,507	2,579	2,901
Georgia	480	593	3,081	3,630	6,492	5,011	4,648	4,320	3,742	2,176	2,775	3,504
Hawaii	132	153	192	158	181	160	167	169	180	223	222	304
Idaho	465	408	415	395	281	252	296	255	243	224	256	234
Illinois	1,400	1,605	1,353	1,392	1,517	1,485	1,393	1,403	1,425	1,572	1,626	1,909
Indiana	476	482	459	641	477	493	511	460	413	450	545	567
Iowa	257	296	244	267	274	260	251	261	264	289	289	350
Kansas	156	111	115	117	112	139	240	283	169	209	238	318
Kentucky	127	156	88	104	110	89	91	101	235	157	217	280
Louisiana	202	238	239	218	271	219	286	253	276	266	274	300
Maine	53	73	76	79	98	62	64	76	116	163	264	470
Maryland	7,186	7,288	7,350	8,963	8,017	8,852	7,822	8,396	8,977	8,993	9,496	9,639
Massachusetts	3,992	3,990	3,973	4,270	3,763	3,847	3,598	3,797	3,391	3,373	4,400	4,489
Michigan	1,066	973	1,083	1,075	907	786	801	815	824	906	1,031	1,224
Minnesota	692	575	561	536	576	658	770	674	879	956	825	932
Mississippi	677	353	364	361	336	282	318	362	356	405	436	444
Missouri	1,390	746	899	869	2,663	1,844	1,428	1,250	1,018	997	939	944
Montana	41	59	91	84	71	79	77	98	90	104	102	148
Nebraska	105	103	94	95	102	100	100	92	93	102	107	141
Nevada	712	695	643	545	438	466	302	326	323	315	284	318
New Hampshire	190	247	196	285	256	244	302	309	293	313	379	432
New Jersey	2,155	2,169	2,062	1,763	1,673	1,525	1,458	1,484	1,619	2,883	2,085	1,673
New Mexico	3,272	2,754	2,906	2,976	2,393	2,396	2,281	2,265	2,177	2,322	2,367	2,811
New York	3,992	4,008	3,979	3,244	3,350	3,142	2,995	2,887	2,912	2,975	3,196	3,564
North Carolina	811	855	865	903	905	981	945	1,021	1,034	1,120	1,125	1,452
North Dakota	79	66	75	67	65	60	53	62	60	67	68	81
Ohio	2,797	2,316	2,429	2,372	2,180	2,240	1,963	2,124	6,137	4,065	1,963	2,473
Oklahoma	214	169	159	142	168	185	159	184	194	186	198	234
Oregon	245	276	279	290	334	330	355	358	382	447	496	553
Pennsylvania	2,752	2,780	2,258	3,180	2,404	2,781	2,213	2,129	2,067	2,073	2,544	2,709
Rhode Island	511	562	475	593	508	597	659	450	429	436	442	450
South Carolina	306	354	216	213	249	201	212	195	206	251	281	329
South Dakota	23	31	31	33	38	35	43	47	51	42	43	57
Tennessee	1,157	998	874	841	876	709	653	666	705	878	907	1,162
Texas	4,835	3,187	4,084	3,554	4,339	4,753	3,983	4,076	4,502	4,174	4,924	4,459
Utah	574	543	386	361	388	427	398	355	429	328	302	408
Vermont	56	71	63	74	57	61	55	55	63	67	78	116
Virginia	3,732	3,871	4,163	4,221	4,506	3,975	5,213	5,400	5,128	6,224	5,158	5,051
Washington	2,101	1,601	1,168	1,135	1,211	1,369	1,374	1,421	1,366	1,415	1,410	1,605
West Virginia	168	336	215	256	255	336	288	216	278	270	267	381
Wisconsin	360	386	389	429	448	398	375	368	363	408	453	512
Wyoming	75	38	53	58	45	42	43	32	37	38	38	38

SOURCE: National Sc