Appendix table 5-20.
Current fund expenditures for research equipment at academic institutions, by field: 1983–99

Field	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Millions of current dollars																	
Total S&E	450	537	672	783	837	912	986	1,012	1,024	1,033	1,039	1,105	1,235	1,208	1,277	1,291	1,319
Total sciences	371	447	547	637	659	716	784	792	790	808	821	856	966	927	979	992	1,032
Physical sciences	81	104	142	163	166	181	181	191	189	198	207	207	237	234	238	253	248
Astronomy	4	6	7	6	7	7	10	13	14	14	17	20	23	21	26	25	29
Chemistry	32	42	54	59	66	74	76	73	69	70	75	80	81	90	88	91	102
Physics	37	47	71	89	82	85	83	91	88	94	90	88	113	104	105	121	106
Other	8	8	10	9	12	15	12	14	18	20	26	19	22	20	20	16	11
Mathematics	4	5	6	7	10	10	10	10	11	10	15	15	14	13	15	14	12
Computer sciences	20	22	35	43	43	43	43	48	59	45	54	59	76	67	70	63	64
Environmental sciences	31	41	48	51	55	56	67	72	70	78	76	83	81	88	90	101	101
Atmospheric sciences	5	7	8	10	11	10	13	11	10	11	14	11	13	13	14	15	15
Earth sciences	12	16	18	18	20	19	26	27	29	30	27	31	27	30	34	37	35
Ocean sciences	11	14	16	18	17	19	18	20	19	28	24	26	26	28	29	33	37
Other	3	4	5	6	7	7	11	13	12	9	11	15	15	16	12	17	14
Life sciences	209	243	283	331	335	379	431	420	411	429	417	435	464	444	479	492	546
Agricultural sciences	41	42	52	58	49	52	59	54	53	59	53	68	63	62	70	76	73
Biological sciences	74	89	105	120	130	155	175	171	167	174	170	176	192	181	196	189	241
Medical sciences	87	103	114	138	142	156	177	177	169	175	177	172	186	182	197	211	213
Other	7	9	12	15	14	16	20	19	22	21	16	18	22	18	16	16	19
Psychology	7	7	9	9	11	10	11	11	11	11	15	13	12	12	13	13	12
Social sciences	9	14	10	14	12	12	14	15	14	18	19	21	28	25	25	22	18
Economics	2	3	3	4	3	4	4	4	5	5	5	6	8	6	5	4	4
Political science	1	1	1	1	1	1	2	1	2	2	3	3	3	3	3	3	2
Sociology	1	2	2	2	2	2	3	3	3	3	4	4	4	4	4	4	3
Other	5	8	4	7	5	4	6	7	5	7	8	9	13	11	12	11	9
Other sciences	10	10	15	20	27	26	26	25	25	18	18	23	53	44	50	33	32
Total engineering	80	90	124	146	178	195	202	220	234	225	218	248	269	281	298	298	286
Aeronautical/astronautical	3	4	7	8	9	9	11	13	17	12	13	19	16	16	19	20	22
Bioengineering/biomedical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	6	8
Chemical	6	7	11	14	15	15	19	18	20	20	22	19	22	24	23	28	27
Civil	7	7	10	12	12	17	16	20	18	16	18	18	22	25	27	21	23
Electrical/electronic	23	24	33	36	44	44	49	58	52	57	56	66	68	75	83	82	70
Mechanical	11	15	17	19	25	29	29	32	34	31	35	37	42	42	46	51	51
Materials	NA	NA	NA	NA	NA	NA	NA	27	33	29	23	25	28	32	36	29	28
Other	29	32	46	58	75	81	78	51	59	61	51	65	72	67	60	60	56
Millions of constant 1996 dollars[a]																	
Total S&E	654.0	751.4	911.4	1,039.6	1,078.9	1,137.0	1,184.2	1,170.2	1,142.4	1,124.5	1,105.0	1,150.5	1,258.6	1,208.2	1,252.2	1,250.4	1,258.6
Total sciences	538.5	625.4	742.6	845.8	849.0	893.3	941.7	915.8	881.4	879.4	873.4	892.0	984.6	927.2	960.3	961.4	985.5
Physical sciences	117.2	144.9	192.5	216.3	214.2	226.2	217.1	221.0	211.3	215.7	220.1	215.7	241.8	234.3	233.6	245.3	237.0
Astronomy	6.1	8.3	9.5	7.7	8.4	8.5	12.1	15.3	16.0	15.4	17.8	20.8	22.9	21.0	25.6	24.5	27.5
Chemistry	47.0	59.2	73.2	78.0	84.9	92.4	90.7	84.5	77.1	76.3	79.4	83.1	82.2	90.1	85.9	88.0	97.2
Physics	53.2	65.9	96.7	118.7	105.2	106.3	99.7	105.0	98.2	102.3	95.3	91.8	114.7	103.6	102.9	117.6	101.5
Other	10.9	11.6	13.0	11.8	15.7	18.9	14.6	16.1	20.0	21.7	27.6	20.0	22.0	19.6	19.2	15.2	10.8
Mathematics	5.4	7.5	8.2	9.1	12.6	12.1	12.3	11.8	11.8	11.2	16.1	15.4	14.7	12.9	14.8	14.0	11.3
Computer sciences	29.0	31.1	48.1	56.6	55.2	53.3	51.7	55.5	65.3	49.1	56.9	61.5	77.9	67.3	68.2	61.5	60.9

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 5-20.
Current fund expenditures for research equipment at academic institutions, by field: 1983–99

Field	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Environmental sciences	45.1	57.7	64.8	68.0	71.4	69.6	81.0	83.4	78.1	84.4	81.2	86.6	82.7	87.6	88.0	98.3	96.2
Atmospheric sciences	7.6	9.6	11.3	13.3	14.5	12.4	15.0	13.2	11.5	11.9	15.4	11.9	13.7	13.2	13.6	14.2	14.0
Earth sciences	16.7	22.1	24.8	23.5	26.3	24.1	30.7	31.7	32.2	32.7	28.4	32.2	27.1	30.4	33.7	36.1	33.1
Ocean sciences	16.5	20.3	21.9	23.6	21.6	23.7	21.5	23.1	21.1	30.0	25.3	27.2	26.8	27.6	28.5	31.8	35.7
Other	4.3	5.7	7.0	7.6	9.1	9.3	13.7	15.4	13.3	9.8	12.1	15.2	15.0	16.4	12.1	16.3	13.4
Life sciences	303.5	340.2	383.5	439.0	432.3	473.1	517.6	485.4	458.8	467.2	443.1	453.5	472.7	443.5	469.4	476.4	521.3
Agricultural sciences	59.4	58.4	70.1	76.8	63.3	65.3	70.6	61.9	59.2	64.4	56.7	71.2	64.4	62.4	68.3	73.5	69.9
Biological sciences	107.1	124.8	142.2	159.1	167.2	193.3	210.5	197.2	186.8	189.3	181.3	183.8	196.1	181.0	192.4	183.1	230.5
Medical sciences	126.7	144.5	155.4	183.8	183.1	194.8	212.3	204.6	188.5	190.7	188.3	179.6	189.3	181.9	193.2	204.5	203.0
Other	10.3	12.5	15.9	19.4	18.7	19.6	24.3	21.9	24.4	22.8	16.8	18.8	22.9	18.3	15.5	15.4	17.8
Psychology	9.5	10.2	11.8	11.5	13.6	11.9	12.8	12.4	12.4	12.2	16.5	13.3	12.5	12.0	13.1	12.8	11.1
Social sciences	13.7	19.4	13.7	18.7	15.2	14.8	17.4	17.4	15.6	19.5	20.2	22.4	28.3	25.2	24.4	21.4	17.1
Economics	3.1	3.8	3.8	4.9	3.7	5.5	4.9	4.7	5.0	5.5	4.9	5.7	7.7	6.5	5.1	3.7	3.7
Political science	1.3	1.5	1.6	1.8	1.7	1.1	2.0	1.7	2.2	2.7	3.0	3.1	3.3	3.5	3.3	3.3	1.9
Sociology	2.0	2.7	2.7	2.9	2.7	2.6	3.6	3.3	2.9	3.7	3.9	4.1	4.2	4.1	4.2	3.8	3.3
Other	7.3	11.3	5.6	9.2	7.1	5.5	6.9	7.7	5.4	7.5	8.4	9.5	13.0	11.1	11.8	10.7	8.2
Other sciences	15.1	14.4	20.0	26.7	34.6	32.3	31.8	29.0	28.1	20.1	19.3	23.7	54.0	44.4	48.7	31.6	30.6
Total engineering	115.5	126.0	168.8	193.7	229.9	243.7	242.5	254.4	261.0	245.1	231.6	258.5	274.0	281.0	291.9	289.0	273.2
Aeronautical/astronautical	5.0	6.1	8.9	10.0	11.0	11.3	13.5	14.6	19.4	12.7	14.1	19.3	16.3	15.5	18.4	18.9	21.1
Bioengineering/biomedical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.1	6.0	7.3
Chemical	8.8	10.4	15.4	18.6	18.9	19.1	23.2	20.8	22.3	21.7	22.9	19.5	22.3	23.8	22.6	27.6	26.2
Civil	10.5	9.5	14.1	15.5	14.9	21.5	18.7	23.3	19.9	17.1	19.6	19.0	22.2	24.8	26.3	20.8	22.3
Electrical/electronic	32.8	33.9	44.4	47.8	56.3	54.7	58.3	67.5	58.0	62.3	59.4	68.6	69.1	75.4	81.7	79.8	66.8
Mechanical	16.2	20.7	23.7	25.2	32.5	36.1	35.0	37.5	38.2	34.0	36.7	38.5	42.4	42.1	45.0	49.5	48.5
Materials	NA	NA	NA	NA	NA	NA	NA	31.2	37.0	31.1	24.9	25.9	28.4	32.2	35.5	28.1	27.2
Other	42.2	45.3	62.2	76.5	96.3	100.9	93.8	59.4	66.3	66.2	54.0	67.8	73.3	67.2	59.2	58.3	53.7
								Percent									
Total S&E	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total sciences	82.3	83.2	81.5	81.4	78.7	78.6	79.5	78.3	77.2	78.2	79.0	77.5	78.2	76.7	76.7	76.9	78.3
Physical sciences	17.9	19.3	21.1	20.8	19.9	19.9	18.3	18.9	18.5	19.2	19.9	18.7	19.2	19.4	18.7	19.6	18.8
Astronomy	0.9	1.1	1.0	0.7	0.8	0.7	1.0	1.3	1.4	1.4	1.6	1.8	1.8	1.7	2.0	2.0	2.2
Chemistry	7.2	7.9	8.0	7.5	7.9	8.1	7.7	7.2	6.8	6.8	7.2	7.2	6.5	7.5	6.9	7.0	7.7
Physics	8.1	8.8	10.6	11.4	9.7	9.4	8.4	9.0	8.6	9.1	8.6	8.0	9.1	8.6	8.2	9.4	8.1
Other	1.7	1.5	1.4	1.1	1.5	1.7	1.2	1.4	1.8	1.9	2.5	1.7	1.7	1.6	1.5	1.2	0.9
Mathematics	0.8	1.0	0.9	0.9	1.2	1.1	1.0	1.0	1.0	1.0	1.5	1.3	1.2	1.1	1.2	1.1	0.9
Computer sciences	4.4	4.1	5.3	5.4	5.1	4.7	4.4	4.7	5.7	4.4	5.2	5.3	6.2	5.6	5.4	4.9	4.8
Environmental sciences	6.9	7.7	7.1	6.5	6.6	6.1	6.8	7.1	6.8	7.5	7.3	7.5	6.6	7.2	7.0	7.9	7.6
Atmospheric sciences	1.2	1.3	1.2	1.3	1.3	1.1	1.3	1.1	1.0	1.1	1.4	1.0	1.1	1.1	1.1	1.1	1.1
Earth sciences	2.6	2.9	2.7	2.3	2.4	2.1	2.6	2.7	2.8	2.9	2.6	2.8	2.2	2.5	2.7	2.9	2.6
Ocean sciences	2.5	2.7	2.4	2.3	2.0	2.1	1.8	2.0	1.8	2.7	2.3	2.4	2.1	2.3	2.3	2.5	2.8
Other	0.7	0.8	0.8	0.7	0.8	0.8	1.2	1.3	1.2	0.9	1.1	1.3	1.2	1.4	1.0	1.3	1.1
Life sciences	46.4	45.3	42.1	42.2	40.1	41.6	43.7	41.5	40.2	41.5	40.1	39.4	37.6	36.7	37.5	38.1	41.4
Agricultural sciences	9.1	7.8	7.7	7.4	5.9	5.7	6.0	5.3	5.2	5.7	5.1	6.2	5.1	5.2	5.5	5.9	5.6
Biological sciences	16.4	16.6	15.6	15.3	15.5	17.0	17.8	16.8	16.3	16.8	16.4	16.0	15.6	15.0	15.4	14.6	18.3
Medical sciences	19.4	19.2	17.0	17.7	17.0	17.1	17.9	17.5	16.5	17.0	17.0	15.6	15.0	15.1	15.4	16.4	16.1
Other	1.6	1.7	1.7	1.9	1.7	1.7	2.1	1.9	2.1	2.0	1.5	1.6	1.8	1.5	1.2	1.2	1.4

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 5-20.
Current fund expenditures for research equipment at academic institutions, by field: 1983–99

Field	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Psychology	1.4	1.4	1.3	1.1	1.3	1.1	1.1	1.1	1.1	1.1	1.5	1.2	1.0	1.0	1.0	1.0	0.9
Social sciences	2.1	2.6	1.5	1.8	1.4	1.3	1.5	1.5	1.4	1.7	1.8	1.9	2.2	2.1	2.0	1.7	1.4
Economics	0.5	0.5	0.4	0.5	0.3	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.6	0.5	0.4	0.3	0.3
Political science	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Sociology	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3
Other	1.1	1.5	0.6	0.9	0.7	0.5	0.6	0.7	0.5	0.7	0.8	0.8	1.0	0.9	0.9	0.9	0.7
Other sciences	2.3	1.9	2.2	2.6	3.2	2.8	2.7	2.5	2.5	1.8	1.7	2.1	4.3	3.7	3.9	2.5	2.4
Total engineering	17.7	16.8	18.5	18.6	21.3	21.4	20.5	21.7	22.8	21.8	21.0	22.5	21.8	23.3	23.3	23.1	21.7
Aeronautical/astronautical	0.8	0.8	1.0	1.0	1.0	1.0	1.1	1.2	1.7	1.1	1.3	1.7	1.3	1.3	1.5	1.5	1.7
Bioengineering/biomedical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.3	0.5	0.6
Chemical	1.3	1.4	1.7	1.8	1.8	1.7	2.0	1.8	1.9	1.9	2.1	1.7	1.8	2.0	1.8	2.2	2.1
Civil	1.6	1.3	1.6	1.5	1.4	1.9	1.6	2.0	1.7	1.5	1.8	1.6	1.8	2.1	2.1	1.7	1.8
Electrical/electronic	5.0	4.5	4.9	4.6	5.2	4.8	4.9	5.8	5.1	5.5	5.4	6.0	5.5	6.2	6.5	6.4	5.3
Mechanical	2.5	2.8	2.6	2.4	3.0	3.2	3.0	3.2	3.3	3.0	3.3	3.3	3.4	3.5	3.6	4.0	3.9
Materials	NA	NA	NA	NA	NA	NA	NA	2.7	3.2	2.8	2.3	2.3	2.3	2.7	2.8	2.3	2.2
Other	6.5	6.0	6.8	7.4	8.9	8.9	7.9	5.1	5.8	5.9	4.9	5.9	5.8	5.6	4.7	4.7	4.3

NA = not available

[a]See appendix table 4-1 for gross domestic product implicit price deflators used to convert current dollars to constant 1996 dollars.

SOURCES: National Science Foundation, Division of Science Resources Studies (NSF/SRS), *Academic Science and Engineering R&D Expenditures: Fiscal Year 1999*, Detailed Statistical Tables, NSF 01-329 (Arlington, VA, 2001); and NSF, unpublished tabulations.

See figure 5-17 in Volume 1.