8. Long-Term Trends

Budget History of the NHLBI: Fiscal Years 1950-2004

Dollars (Thousands)

Fiscal Year	Budget Estimate to Congress	House Allowance	Senate Allowance	Appropriation	Obligations	Cumulative Fiscal Year Obligations
1950	$34,630	$11,575	$29,117	$16,075	$15,768	$15,768
1951	8,800	8,800	9,400	9,400	8,497	24,265
1952	10,237	10,074	10,156	10,083	9,850	34,115
1953	9,779	9,623	12,000	12,000	11,398	45,513
1954	11,040	12,000	15,418	15,168	14,952	60,465
1955	14,570	16,168	17,168	16,668	16,595	77,060
1956	17,454	17,398	23,976	18,808	18,838	95,898
1957	22,106	25,106	33,396	33,396	32,392	128,290
1958	33,436	33,436	38,784	35,936	35,973	164,263
1959	34,820	36,212	49,529	45,613	45,468	209,731
1960	45,594	52,744	89,500	62,237	61,565	271,296
1961	63,162	71,762	125,166	86,900	86,239	357,535
1962	97,073	105,723	160,000	132,912	110,849	468,384
1963	126,898	143,398	149,498	147,398	120,597	588,981
1964	130,108	129,325	130,545	132,404	117,551	706,532
1965	125,640	124,521	125,171	124,824	124,412	830,944
1966	141,412	146,212	143,462	141,462	141,171	972,115
1967	148,407	154,770	164,770	164,770	164,342	1,136,457
1968	167,954	167,954	177,954	167,954	162,134	1,298,591
1969	169,735	164,120	172,120	166,928	161,834	1,460,425
1970	160,513	160,513	182,000	171,257	160,433	1,620,858
1971	171,747	178,479	203,479	194,901	194,826	1,815,684
1972	195,492	211,624	252,590	232,627	232,577	2,048,261
1973	255,280	300,000	350,000	300,000	255,722	2,303,983
1974	265,000	281,415	320,000	302,915	327,270	2,631,253
1975	309,299	321,196	330,000	327,996	327,953	2,959,206
1976	324,934	329,079	379,059	370,096	368,648	3,327,854
TQA	59,715	58,015	58,015	58,763	60,639	3,388,493
1977	342,855	380,661	420,661	396,661	396,857	3,785,350
1978	403,642	432,642	456,000	447,901	447,968	4,233,318
1979	454,336	485,584	485,584	510,134	510,080	4,743,398
1980	507,344	527,544	527,544	527,544	527,248	5,270,646
1981	532,799	560,264	565,264	549,693	550,072	5,820,718
1982	579,602	583,831	587,741	559,637	559,800	6,380,518
1983	577,143	620,947	624,542	624,259	624,260	7,004,778
1984	639,774	665,859	683,489	704,939	705,064	7,709,842
1985	718,852	764,135	807,149	805,269	803,810	8,513,652

Fiscal Year	Budget Estimate to Congress	House Allowance	Senate Allowance	Appropriation	Obligations	Cumulative Fiscal Year Obligations
1986	775,254	856,388	863,652	859,239	821,901	9,335,553
1987	785,697	921,410	921,502	930,001	929,982	10,265,535
1988	821,887	990,808	1,000,349	965,536	965,283	11,230,818
1989	1,054,503	1,018,983	1,056,003	1,045,985	1,045,508	12,276,326
1990	1,039,846	1,090,930	1,091,597	1,072,354	1,070,683	13,347,009
1991	1,112,502	1,135,589	1,137,235	1,126,942	1,125,915	14,472,924
1992	1,209,924	1,202,398	1,190,396	1,191,500	1,190,070	15,662,994
1993	1,245,396	1,228,455	1,228,455	1,214,693	1,214,693	16,877,687
1994	1,198,402	1,277,880	1,277,880	1,277,880	1,277,852	18,155,539
1995	1,266,961	1,259,590	1,259,590	1,258,472	1,314,969	19,470,508
1996	1,337,021	1,355,866	1,320,254B	1,355,866	1,351,422C	20,821,930
1997	1,320,555D	1,438,265	1,344,742D	1,432,529E	1,431,821	22,253,751
1998	1,467,189	1,513,004	1,531,898	1,531,061F	1,526,276	23,780,027
1999	1,709,328G	1,720,344	1,793,697	1,793,697F	1,788,008	25,568,035
2000	1,759,806	1,937,404	2,001,185	2,040,291F	2,027,286	27,595,321
2001	2,069,582	2,328,102	2,328,105	2,299,866H	2,298,035	29,893,356
2002	2,567,429	2,547,675	2,618,966	2,576,125I	2,569,794	32,463,150
2003	2,791,411	2,812,011	2,818,684	2,812,011J	2,793,681	35,256,831
2004	2,867,995	2,867,995	2,867,595	2,882,715K	2,882,601	38,139,432

A TQ=Transition Quarter, July 1-September 30, 1976.
B Senate Allowance reflects the Institute share of the Government-wide rescission and the HHS rescission.
C Obligations reflect the Institute share of the Government-wide rescission, the HHS rescission, and a transfer to other NIH Institutes through the NIH Director's 1 percent transfer authority.
D Excludes funds for AIDS research activities consolidated in the NIH Office of AIDS Research (OAR).
E Excludes enacted administrative reduction.
F Excludes Director transfer, Secretary transfer, and rescission.
G Includes Bioterrorism reduction.
H Excludes Office of Human Research Protection transfer, Secretary transfer, and rescission.
I Excludes Government-wide rescission, Labor/HHS/Education rescission, from HHS to OMB rescission, and Secretary 1 percent transfer.
J Excludes Government-wide rescission.
K Includes Roadmap adjustments.

NHLBI Total Obligations by Budget Category: Fiscal Years 1994-2004

Current Dollars

Year	Total	Heart	Lung	Blood	Sleep Disorders Research	Women's Health Initiative	Intramural Research	Research Management and Support
1994	1227.90	651.7	238.7	227.4			101.7	58.4
1995	1314.90	668.9	243	244.6			98.9	59.5
1996	1351.50	693	262	224	16		102	55
1997	1431.70	738	273	243	19		104	55
1998	1526.30	795.6	281.7	257.5	22.3		111.6	57.6
1999	1788.00	898	346.2	266.1	31.2	63.1	119.5	63.9
2000	2298.00	1058	380.4	305.9	35.1	57.7	122.3	67.9
2001	2298.00	1186.0	444	364	37	59.2	133.7	73.5
2002	2569.80	1353.40	490.5	396	44.7	59.0	146.7	79.4
2003	2793.80	1475.6	541.1	419.3	49.4	63.2	157.8	87.3
2004	2882.80	1545.90	545.1	492.2	51.8	58.8	162.2	88.5

NHLBI Total Obligations by Budget Category: Fiscal Years 1994-2004

Constant 1994 Dollars

Year	Total	Heart	Lung	Blood	Sleep Disorders Research	Women's Health Initiative	Intramural Research	Research Management and Support
1994	1229.9	627.2	229.7	218.9	0	0	97.9	56.2
1995	1270.9	646.5	234.9	236.4	0	0	95.6	57.5
1996	1273.6	652.9	246.8	211.4	15	0	95.9	51.6
1997	1312.7	676.6	250.7	222.5	17.1	0	95.7	50.1
1998	1353.7	705.6	249.8	228.4	19.8	0	99	51.1
1999	1529.3	768.0	296.1	227.6	26.7	54	102.2	54.7
2000	1662.0	867.30	311.8	250.8	28.8	47.3	100.3	55.7
2001	1807.9	933.5	349.3`	286.4	29.1	46.6	105.2	57.8
2002	1951.1	1027.6	372.4	286.4	29.1	46.6	105.2	60.3
2003	2026.9	1070.6	392.6	304.2	35.8	45.9	114.5	63.3
2004	2015.0	1808.6	383.3	300	36.3	41.1	114.8	61.9

NHLBI Total Obligations by Budget Category: Fiscal Years 1994-2004

Current Dollars (Millions)

	Fiscal Year										
Budget Category	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Extramural Research											
Heart	651.7	668.9	692.8	737.9	795.6	898.0	1,058.0	1,186.6	1,353.4	1,475.6	1545.9
Lung	238.7	243.0	261.9	273.4	281.7	346.2	380.4	444.0	490.5	541.1	544.1
Blood	227.4	244.6	224.3	242.7	257.5	266.1	305.9	364.0	396.0	419.3	429.2

	Fiscal Year										
Budget Category	**1994**	**1995**	**1996**	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**
Sleep Disorders Research			15.9	18.7	22.3	31.2	35.1	37.0	44.7	49.4	51.9
Women's Health Initiative						63.1	57.7	59.2	59.0	63.2	58.8
Intramural Research	101.7	98.9	101.8	104.4	111.6	119.5	122.3	133.7	146.7	157.8	164.2
Research Management and Support	58.4	59.5	54.8	54.6	57.6	63.9	67.9	73.5	79.4	87.3	88.5
Total	**1,277.9**	**1,314.9**	**1,351.5**	**1,431.7**	**1,526.3**	**1,788.0**	**2,027.3**	**2,298.0**	**2,569.8**	**2,793.7**	**2,882.6**

NHLBI Total Obligations by Budget Category: Fiscal Years 1994-2004

Constant 1994 Dollars (Millions)

	Fiscal Year										
Budget Category	**1994**	**1995**	**1996**	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**
Extramural Research											
Heart	627.2	622.2	628.7	651.3	679.4	739.1	835.0	898.9	989.3	1,045.8	1,080.6
Lung	229.7	226.0	237.7	241.3	240.6	284.9	300.2	336.4	358.6	383.5	380.3
Blood	218.9	227.5	203.5	214.2	219.9	219.0	241.4	275.8	289.5	297.2	300.0
Sleep Disorders Research			14.4	16.5	19.0	25.7	27.7	28.0	32.7	35.0	36.3
Women's Health Initiative						51.9	45.5	44.8	43.2	44.8	41.1
Intramural Research	97.9	92.0	92.4	92.1	95.3	98.4	96.5	101.3	107.2	111.8	114.8
Research Management and Support (RMS)	56.2	55.3	49.7	48.2	49.2	52.6	53.6	55.7	58.0	61.9	61.9
Total	**1,229.9**	**1,223.0**	**1,226.4**	**1,263.6**	**1,303.4**	**1,471.6**	**1,599.9**	**1,740.9**	**1,878.5**	**1,980.0**	**2,015.0**

This table is based on the Biomedical Research & Development Price Index (January 2003).

NHLBI Total Obligations by Budget Mechanism: Fiscal Years 1994-2004

Year	Research Grants	Research and Development (R&D) Contracts	Training Programs	Intramural Research and Research Management and Support
1994	951	118.3	48.3	160
1995	983	125.9	48	158
1996	1025	120.9	48.5	157
1997	1101	121.9	49.8	159
1998	1189.8	116.7	50.6	169.2
1999	1346.6	197.2	60.8	183.4

Year	Research Grants	Research and Development (R&D) Contracts	Training Programs	Intramural Research and Research Management and Support
2000	1570.5	201.3	65.4	190.1
2001	1796.5	220.1	73.7	207.3
2002	2006.2	258.3	79.2	226.1
2003	2172.3	290.5	85.8	245.1
2004	2257.3	285.5	87.1	252.7

NHLBI Total Obligations by Budget Mechanism: Fiscal Years 1994-2004

Current Dollars (Millions)

Funding Mechanism	Fiscal Year										
	1994	**1995**	**1996**	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**
Research Grants (includes Research Career Programs)	951.2	982.6	1,025.4	1,100.9	1,189.8	1,346.6	1,570.5	1,796.9	2,006.2	2,172.3	2,257.3
Research and Develop ment (R&D) Contracts	118.3	125.9	120.9	121.9	116.7	197.2	201.3	220.1	258.3	290.5	285.5
Training Programs	48.3	48.0	48.5	49.8	50.6	60.8	65.4	73.7	79.2	85.8	87.1
Intramural Research and Research Management and Support (excludes Office of the Director and DIR research contracts, which are included in R&D contracts)	160.1	158.4	156.6	159.1	169.2	183.4	190.1	207.3	226.1	245.1	252.7
Total	**1,277.9**	**1,314.9**	**1,351.4**	**1,431.7**	**1,526.3**	**1,788.0**	**2,027.3**	**2,298.0**	**2,569.8**	**2,793.7**	**2,882.6**

NHLBI Employment: Fiscal Years 1994-2004

	Fiscal Year										
Staff	**1994**	**1995**	**1996**	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**
Full-time equivalents	854	822	834	829	840	847	865	868	880	880	861

NHLBI Institute-Initiated and Investigator-Initiated Awards: Fiscal Years 1994-2004

Percent of Extramural Funds

Year	Investigator-Initiated Grants (includes Research Career Programs)	Institute-Initiated Awards (Grants and R&D Contracts)
1994	63.9	31.7
1995	64.9	30.9
1996	68.9	27.2
1997	67.9	28.2
1998	71.3	25
1999	66.7	29.5

Year	Investigator-Initiated Grants (includes Research Career Programs)	Institute-Initiated Awards (Grants and R&D Contracts)
2000	67.6	28.9
2001	69.2	27.3
2002	67.6	29
2003	66.0	30.6
2004	67.9	28.8

NHLBI Grants and Research and Development Contracts as Subsets of Institute-Initiated Awards: Fiscal Years 1994-2004

Percent of Extramural Funds

Year	Institute-Initiated Awards (Grants and R&D Contracts)	Grants	R&D Contracts
1994	31.7	20.8	10.9
1995	31	20.1	10.9
1996	27.2	17.7	9.5
1997	28.2	18.6	9.6
1998	25	16.4	8.6
1999	29.5	17.2	12.3
2000	28.9	17.9	11
2001	27.3	16.8	10.5
2002	29	18	11
2003	30.6	19.2	11.4
2004	28.8	18	10.9

NHLBI Extramural Programs: Fiscal Years 1994-2004

Dollars (Millions)

Funding Mechanism	Fiscal Year										
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Investigator-Initiated Awards											
Investigator-Initiated Grants (includes all R18s)	669.7	725.0	815.5	835.3	930.5	1,023.6	1,188.6	1,388.8	1,521.4	1,616.1	1,716.8
Research Career Programs	25.1	25.7	28.9	28.9	36.1	46.3	53.0	57.5	63.5	65.8	67.8
Subtotal, Investigator-Initiated Awards	694.8	750.7	844.4	864.2	966.6	1,069.9	1,241.6	1,446.3	1,584.9	1,681.9	1,784.6
Institute-Initiated Awards											
Institute-Initiated Grants (RFA)	226.4	231.9	216.8	236.8	223.2	276.7	328.9	350.7	421.3	490.4	472.5
Centers (Centers are a subset of Institute-Initiated Grants (RFAs), and are not added to the Institute-Initiated Awards subtotal as a distinct category)	101.5	107.0	87.5	87.7	114.4	119.9	123.8	127.2	128.2	138.9	140.6
R&D Contracts (RFP)	118.3	125.9	116.7	121.9	116.7	197.2	201.3	220.1	258.3	290.5	285.5
Subtotal, Institute-Initiated Awards	344.7	357.8	333.5	358.7	339.9	473.9	530.2	570.8	679.6	780.9	758.0
Training											
Individual Awards	7.2	7.1	7.3	6.8	7.6	9.2	8.9	8.9	9.5	8.6	8.8

Funding Mechanism	Fiscal Year										
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Institutional Awards	40.0	40.0	40.2	42.0	42.0	50.3	55.2	63.4	69.7	75.5	76.6
Subtotal, Training (numbers do not add to subtotal because line-items exclude NIH assessments)	48.2	48.0	48.5	49.8	50.6	60.8	65.4	73.7	79.2	85.8	87.2
Total, Extramural	**1,087.7**	**1,156.5**	**1,226.4**	**1,272.7**	**1,357.1**	**1,604.6**	**1,837.2**	**2,090.8**	**2,343.7**	**2,548.6**	**2,629.8**

NHLBI Extramural Programs: Fiscal Years 1994-2004

Percent of Total Extramural Budget

Funding Mechanism	Fiscal Year										
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Investigator-Initiated Awards											
Investigator-Initiated Grants (includes all R18s)	61.6%	62.7%	66.5%	65.6%	68.6%	63.8%	64.7%	66.4%	64.9%	63.4%	65.3%
Research Career Programs (K04, K06)	2.3	2.2	2.4	2.3	2.7	2.9	2.9	2.8	2.7	2.6	2.6
Subtotal, Investigator-Initiated Awards	63.9	64.9	68.9	67.9	71.2	66.7	67.6	69.2	67.6	66.0	67.9
Institute-Initiated Awards											
Institute-Initiated Grants (RFA)	20.8	20.1	17.7	18.6	16.4	17.2	17.9	16.8	18.0	19.2	18.0
Centers (Centers are a subset of Institute-Initiated Grants (RFAs), and are not added to the Institute-Initiated Awards subtotal as a distinct category)	9.3	9.3	7.1	6.9	8.4	7.5	6.7	6.1	5.5	5.5	5.3
R&D Contracts (RFP)	10.9	10.9	9.5	9.6	8.6	12.3	11.0	10.5	11.0	11.4	10.9
Subtotal, Institute-Initiated Awards	31.7	30.9	27.2	28.2	25.0	29.5	28.9	27.3	29.0	30.6	28.8
Training											
Individual Awards	0.7	0.6	0.6	0.5	0.6	0.6	0.5	0.4	0.4	0.4	0.3
Institutional Awards	3.7	3.5	3.3	3.3	3.1	3.1	3.0	3.0	3.0	3.0	2.9
Subtotal, Training (numbers do not add to subtotal because line items exclude NIH assessments)	4.4	4.2	4.0	3.9	3.7	3.8	3.6	3.5	3.4	3.4	3.3
Total, Extramural	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**

NHLBI Extramural Research Funding Mechanism: Fiscal Years 1994-2004

Dollars (Millions)

Funding Mechanism	Fiscal Year										
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Research Grants (includes Research Career Programs; does not include Centers)	849.7	875.7	918.7	992.3	1,075.4	1,226.7	1,446.7	1,669.8	1,878.0	2,033.4	2,116.6
Centers	101.5	107.0	106.7	108.7	114.4	119.9	123.8	127.2	128.2	138.9	140.63
R&D Contracts	118.3	125.9	120.9	121.9	116.7	197.2	201.3	220.1	258.3	290.5	285.5
Research Training	48.2	48.0	48.5	49.8	50.6	60.8	65.4	73.7	79.2	85.8	87.1
Total, Extramural	**1,117.7**	**1,156.6**	**1,194.8**	**1,272.7**	**1,357.1**	**1,604.6**	**1,837.2**	**2,090.8**	**2,343.7**	**2,548.6**	**2,548.6**

NHLBI Extramural Research Funding Mechanism: Fiscal Years 1994-2004

Percent of Total Extramural Budget

Funding Mechanism	Fiscal Year										
	1994	**1995**	**1996**	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**
Research Grants (includes Research Career Programs; does not include Centers)	76.0%	75.7%	76.9%	78.0%	79.2%	76.4%	78.7%	79.9%	80.1%	79.8%	80.5%
Centers	9.1	9.3	8.9	8.5	8.4	7.5	6.7	6.1	5.5	5.5	5.3
R&D Contracts	10.6	10.9	10.1	9.6	8.6	12.3	11.0	10.5	11.0	11.4	10.9
Research Training	4.3	4.2	4.1	3.9	3.7	3.8	3.6	3.5	3.4	3.4	3.3
Total, Extramural	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**

Note: Numbers may not add to total due to rounding.