

Sponsored Projects Annual Report Fiscal Year 2003



University of California, Berkeley

The University of California, Berkeley

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Robert M. Berdahl**

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**Vice Chancellor for Research
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**University of California, Berkeley
Sponsored Projects Annual Report, Fiscal Year 2003**

published by the
Research Administration & Compliance Office
336 Sproul Hall
University of California, Berkeley
Berkeley, CA 94720-5940
510/642-0120

Assistant Vice Chancellor: Joyce Freedman
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Sponsored Projects Annual Report, Fiscal Year 2003

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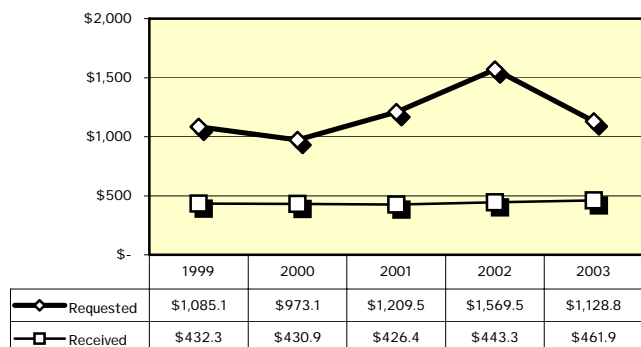
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The University of California, Berkeley is one of the world's leading universities in research, teaching, and public service, with an enrollment of over 23,000 undergraduates and 9,300 graduate students. The campus employs 1,800 faculty in more than 130 academic departments and interdepartmental groups, and more than 40 interdisciplinary research units contribute to this dynamic and vital research and teaching environment.

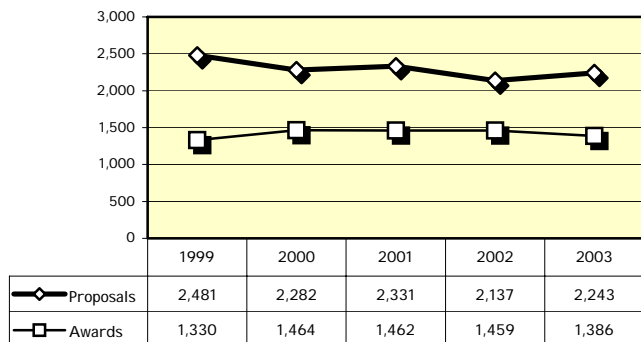
The Sponsored Projects Office is pleased to present this annual report of Berkeley's sponsored research, teaching, and public service for fiscal year 2003, from July 1, 2002 through June 30, 2003.

Award Overview

In fiscal year 2003 the Berkeley campus received more than \$461 million in contract and grant awards, the highest total in its history. This year the University submitted 2,243 proposals requesting \$1.13 billion, down from the \$1.57 billion requested last year.



Funding Requested Compared with Funding Received, FY 1999 - 2003



Proposals Submitted Compared with Awards Received, FY 1999 - 2003

For the second consecutive year, project funding increased by 4% over the prior year's total. Awards from federal agencies increased by 4%, while nonprofit funding increased by 17%, industry funding increased by 28%, and nonfederal governmental funding dropped 24%. Basic research again topped the list of funded activities, with nearly \$316 million in funding. Applied research, where discoveries and advances made in basic research are expanded to practical application, was second with \$47.7 million, up from \$41.7 million in FY 2002.

Project Funding, FY 1999 – 2003 (dollars in millions)

By Sponsor

	1999	2000	2001	2002	2003
Federal	\$296.0	260.8	249.4	284.4	295.2
Industry	35.0	14.2	15.3	8.8	11.2
Nonfederal Governmental	36.0	82.1	79.5	57.3	43.5
Not for Profit	56.1	60.6	64.5	76.6	89.5
University of California	9.2	13.2	17.7	16.2	22.6
TOTAL	\$432.3	\$430.9	\$426.4	\$443.3	\$461.9

By Activity

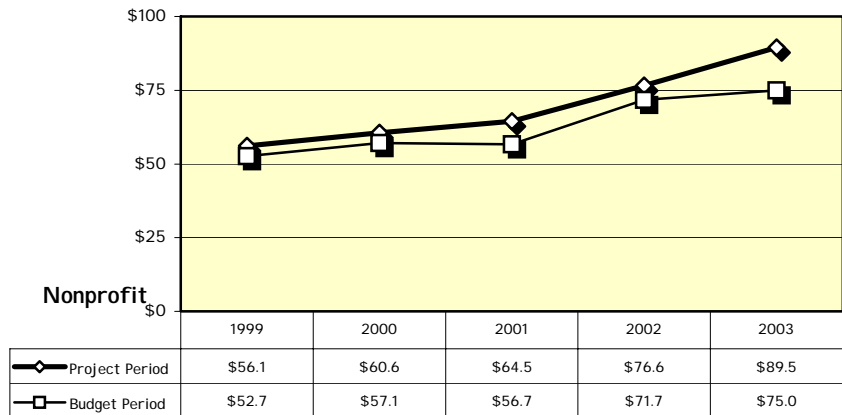
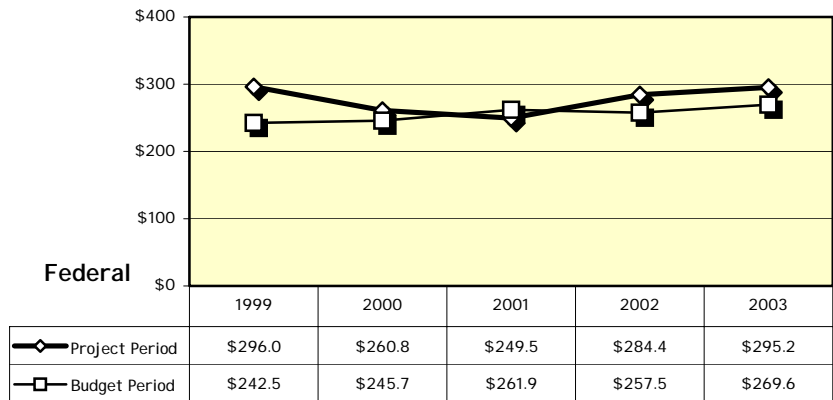
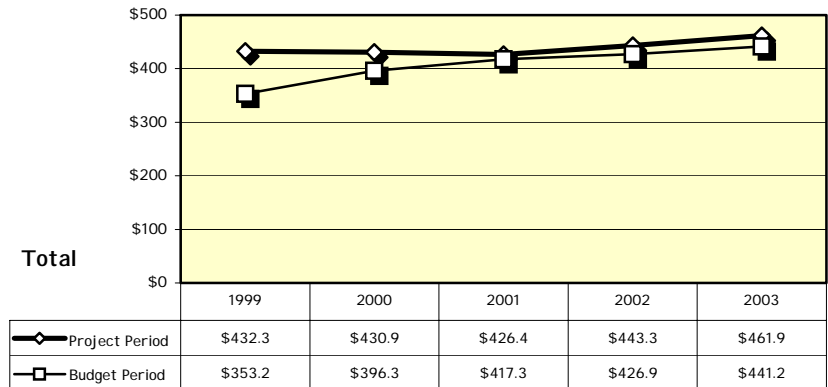
	1999	2000	2001	2002	2003
Basic Research	\$314.4	261.8	293.6	323.5	315.8
Applied Research	44.2	101.5	58.2	41.7	47.7
Instruction	1.3	22.1	26.2	3.2	1.4
Other	23.6	25.5	25.0	25.6	37.2
Training	36.5	11.1	19.3	36.0	47.0
Services	12.3	9.0	19.3	13.3	12.8
TOTAL	\$432.3	\$430.9	\$426.4	\$443.3	\$461.9

By Discipline

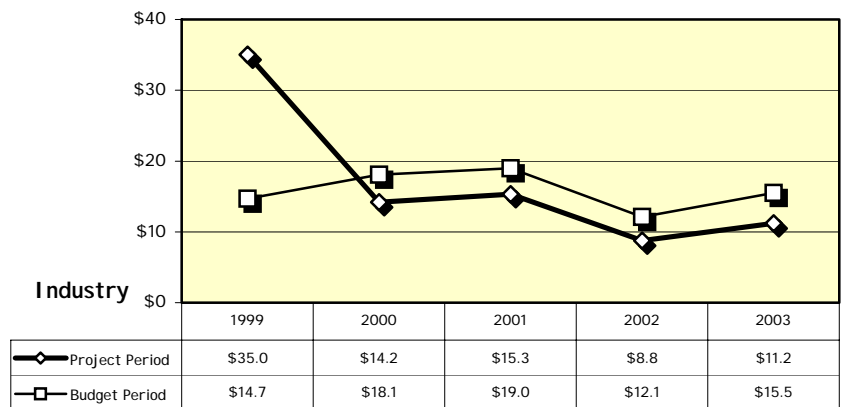
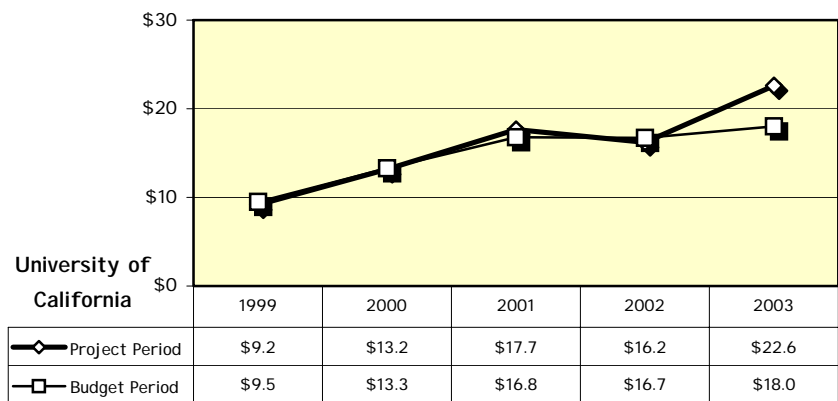
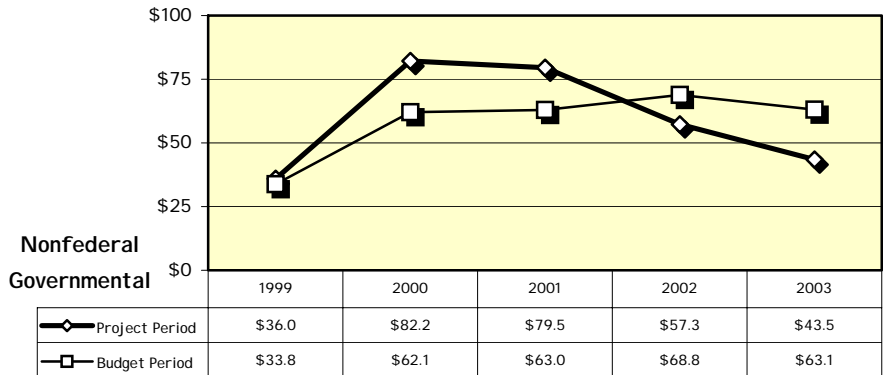
	1999	2000	2001	2002	2003
Biological Sciences	\$78.1	50.2	65.9	49.6	59.3
Business/Professional	8.1	7.2	4.7	13.7	9.0
Education	32.5	24.5	27.0	33.5	30.6
Engineering/ Computer Sciences	74.6	117.5	133.9	106.0	99.5
Health Sciences	53.3	57.7	25.8	41.9	54.8
Libraries/Museums	5.4	8.6	6.7	6.5	8.8
Natural Resources	49.3	29.0	29.9	36.5	35.9
Physical Sciences	84.3	85.1	80.3	107.0	100.4
Social Sciences/ Humanities	40.9	46.1	51.0	46.7	59.0
Others	5.7	4.9	1.2	2.0	4.6
TOTAL	\$432.3	\$430.9	\$426.4	\$443.3	\$461.9

Award information is captured in two ways; by project periods (the total amount of the award) and by budget periods (the amounts of the individual budget periods). Budget period funding data is captured for all years of an award, which includes future years. Budget period funding also saw a second straight record high in FY 2003, at \$441.2 million against a \$461.9 million project period total. Federal budget period funding at \$269.6 million also reached a record high this year.

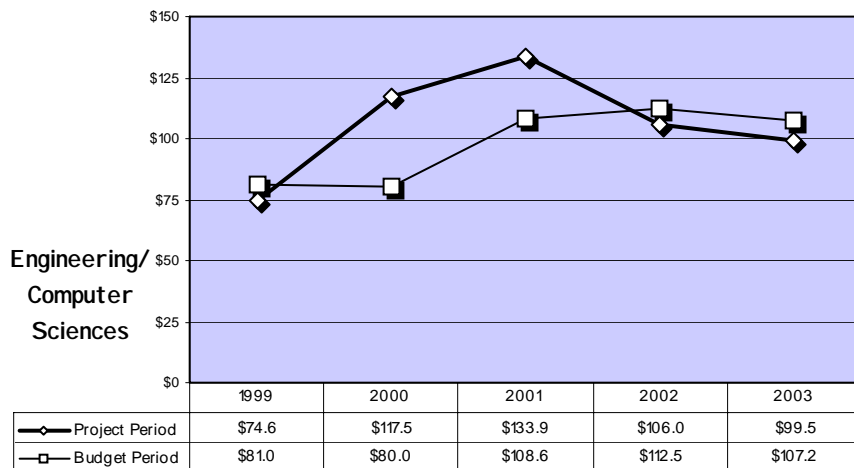
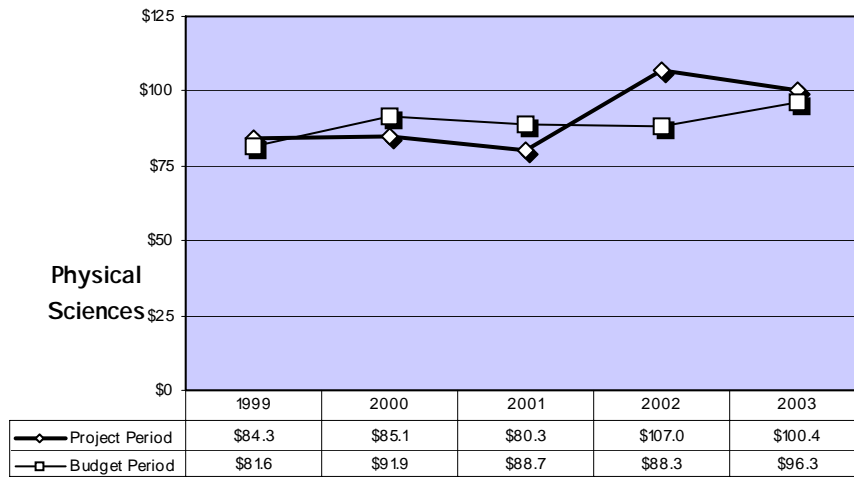
Comparison of Project Period and Budget Period Funding, by Sponsor FY 1999 – 2003 (dollars in millions)



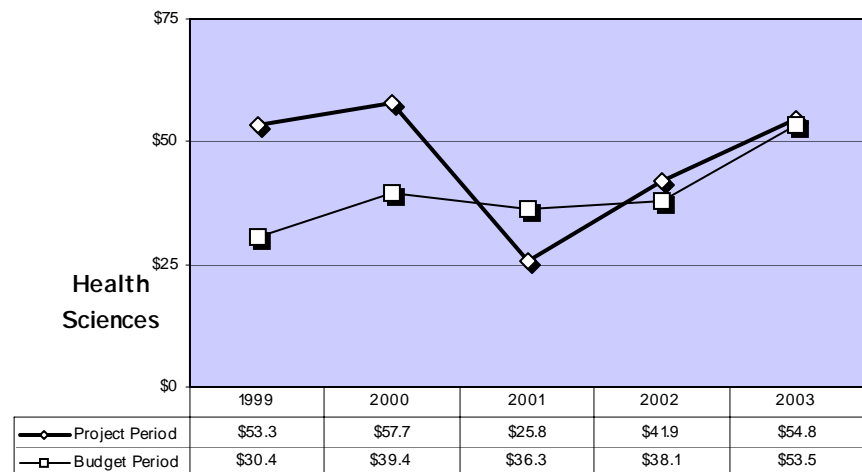
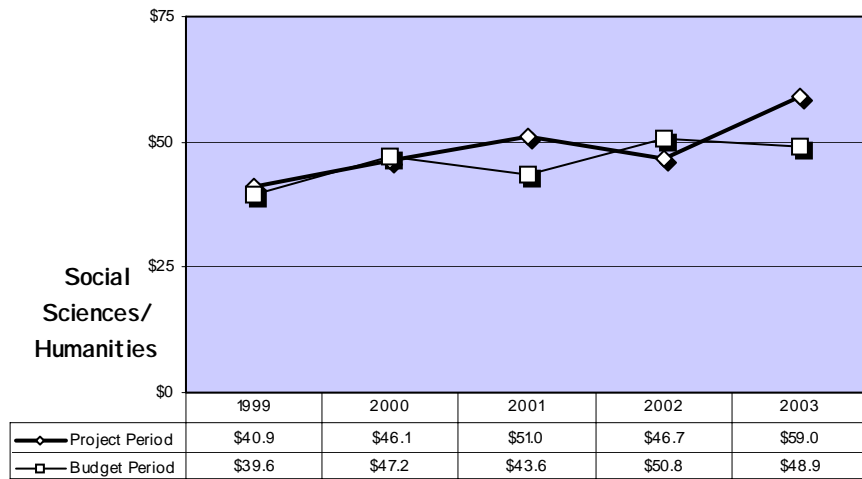
**Comparison of Project Period and Budget Period Funding, by Sponsor
Continued
FY 1999 – 2003 (dollars in millions)**



Comparison of Project Period and Budget Period Funding, by Discipline FY 1999 – 2003 (dollars in millions)



**Comparison of Project Period and Budget Period Funding, by Discipline
Continued
FY 1999 – 2003 (dollars in millions)**

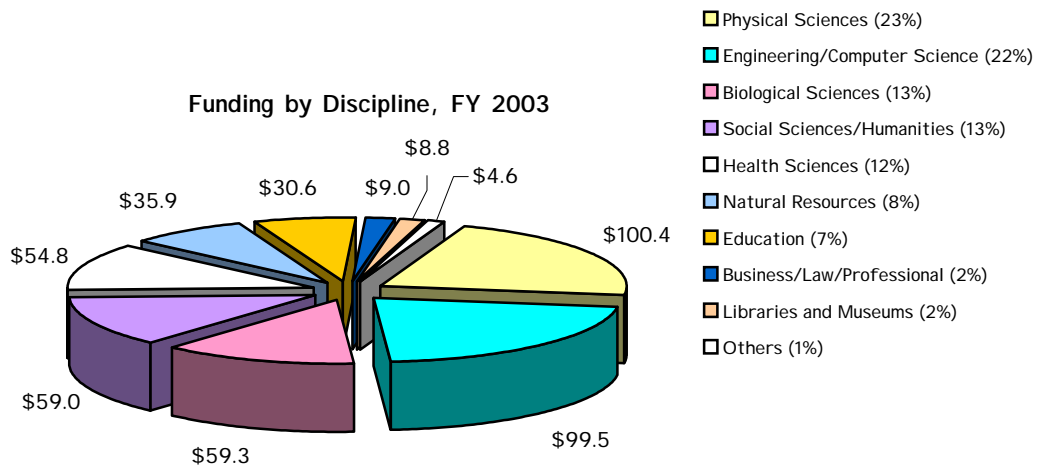
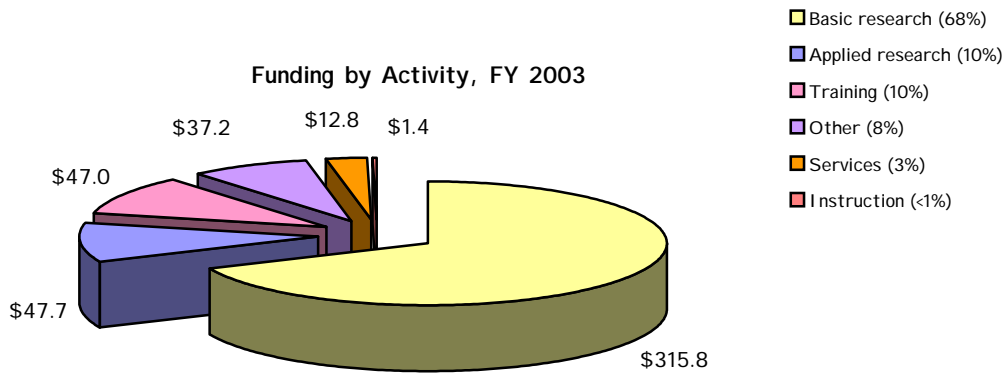
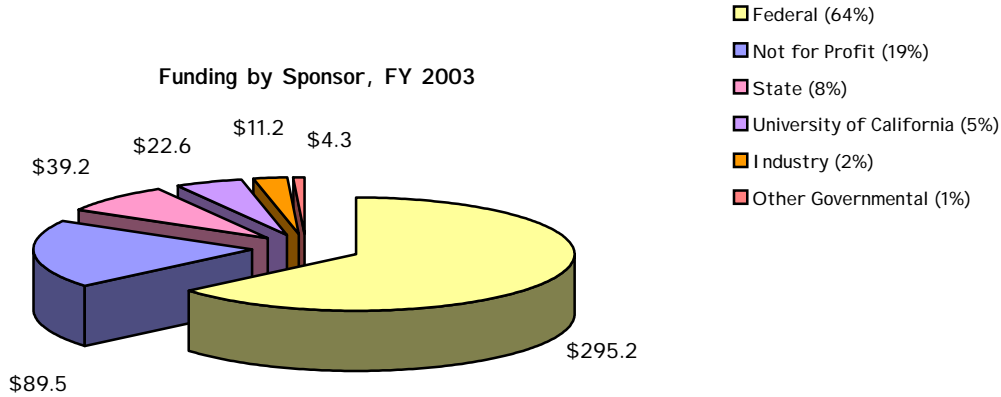


**Comparison of Project Period and Budget Period Funding, by Discipline
Continued
FY 1999 – 2003 (dollars in millions)**

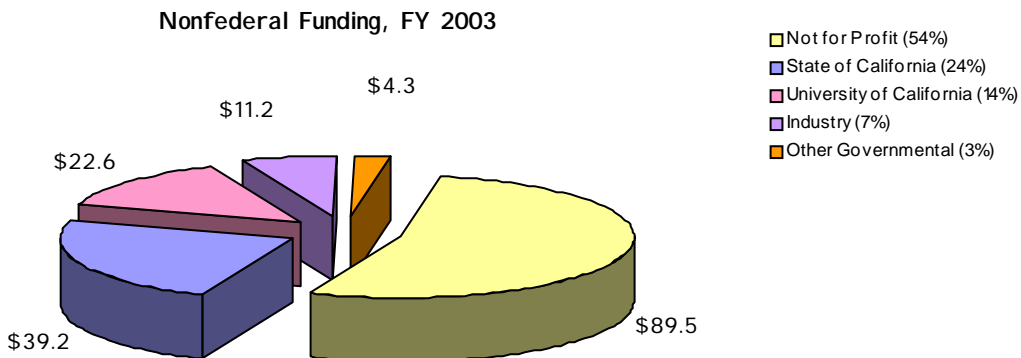
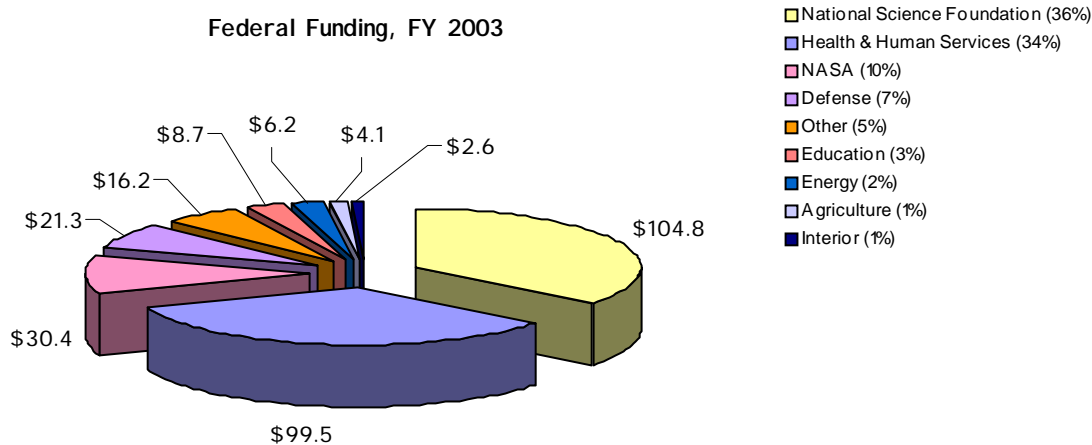


Project Period Funding in Fiscal Year 2003

Federal funding is the largest share of Berkeley's funding, at 64% of the project period total. Funding from nonprofit agencies made up 19%, followed by State of California at 8% and University of California with 5% of the total. Funding from corporate entities made up 2% of the total.



For the first time, the National Science Foundation was the largest single source of funds to the campus in FY 2003, with \$104.8 million in new projects. The Department of Health and Human Services awarded nearly \$100 million this year, followed by the National Aeronautics and Space Administration, the Department of Defense, and the departments of Education, Energy, Agriculture, and Interior. Of the \$167 million received from nonfederal sources, nonprofit agencies awarded almost \$90 million, and State of California funding declined for the second consecutive year, down 26% at \$39 million. Corporate agencies awarded 7% of nonfederal funding with a total of \$11.2 million.



Major Corporate Sponsors, FY 2003

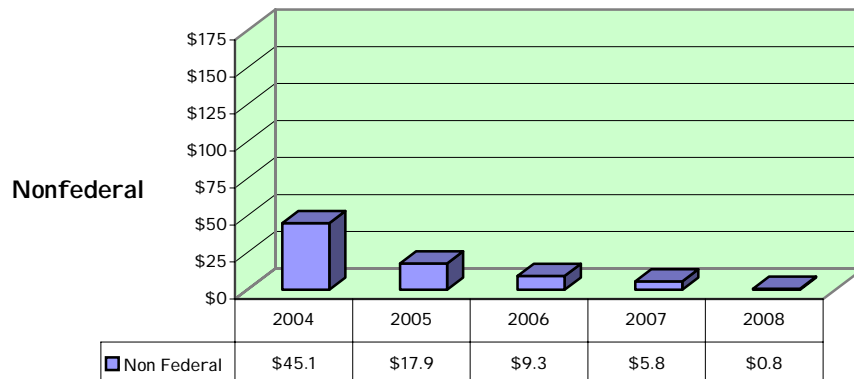
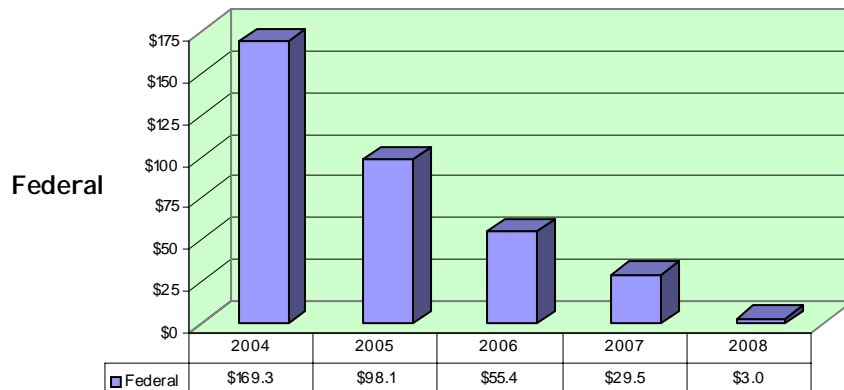
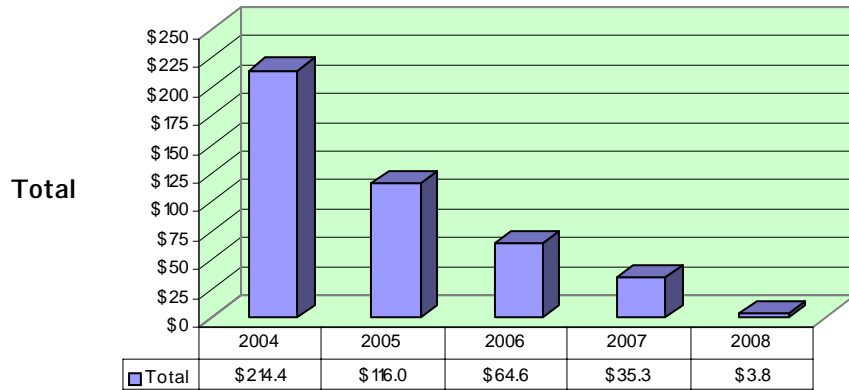
Syngenta
Westat
Titanium Metals Corporation
BioSTAR, Inc.
Lockheed
ChevronTexaco Corporation
Richmond Chemical Corporation
Northrop Grumman Corporation
Diversa Corporation
Daimler Chrysler

SRI International
KineMed, Inc.
Timken Company
Genencor
Japan Nuclear Cycle Development Institute
Kosan Biosciences, Inc.
Sonoma Technology Inc.
Armstrong World Industries, Inc.
Tate Access Floors, Inc.
York International Corporation

Altana Pharma AG
Ardesta LLC
TransCore IP, Ltd.
Pfizer Pharmaceuticals, Inc.
Amersham Healthcare
Vine Brook Research Corporation
Science Applications Int'l Corporation
ATOFINA Chemicals, Inc.
UTC United Technologies Corporation
Nikon, Inc.

When a project period award is received, all budget period funding is recorded, including the current year and any future years that are essentially guaranteed. This method allows forecasting of anticipated budget period funding that will be available to spend several years into the future. The charts below illustrate expected budget period funding for fiscal years 2004 through 2008.

Future Budget Period Funding, FY 2004 – 2008 (dollars in millions)



The Twenty Largest Research Awards Received by Berkeley Faculty, FY 2003

Sastry, S. Shankar
Electronics Research Laboratory
ITR: Foundations of Hybrid and Embedded Software Systems
National Science Foundation
\$13,000,000

Moehle, Jack P.
Earthquake Engineering Research Center
Pacific Earthquake Engineering Research Center
National Science Foundation
\$10,000,000

Levine, Michael S.
Molecular & Cell Biology
Center for Integrated Genomics
Gordon and Betty Moore Foundation
\$8,425,000

Drubin, David G.
Molecular & Cell Biology
The Molecular Basis of Cell Function
NIH National Institute of General Medical Sciences
\$7,896,012

Baker, Barbara
Plant & Microbial Biology Department
Collaborative Research: Potato Functional Genomics:
Application to Analysis of Growth, Development, Metabolism
and Responses to Biotic and Abiotic Stress
National Science Foundation
\$7,674,870

Hawkins, Isabel
Space Sciences Lab
NASA Sun-Earth Connection Education Forum
NASA Goddard Space Flight Center
\$6,757,500

Knight, Robert T.
Institute for Personality & Social Research
Behavioral Neuroscience and Stroke
National Institute of Neurological Disorders & Strokes
\$6,670,584

Scheffler, Richard
School of Public Health
Scholars in Health Policy Research
Robert Wood Johnson Foundation
\$5,400,000

Sastry, S. Shankar
Electronics Research Laboratory
Adaptive Coordinated Control of Intelligent Multi-Agent Teams
Army Research Office
\$5,000,000

Hedrick, John Karl
Institute of Transportation Studies
Collaborative Autonomous Vehicles for Complex Adversarial
Environments
Office of Naval Research
\$4,620,000

Whaley, K. Birgitta
Chemistry
ITR: Exploration and Control of Condensed Matter Qubits
National Science Foundation
\$4,542,000

Malone, Laurence
Lawrence Hall of Science
Assessing Science Knowledge
National Science Foundation
\$3,266,791

Reingold, Arthur L.
School of Public Health
Center for Infectious Disease Preparedness
Association of Schools of Public Health
\$2,953,305

Glickman, Stephen E.
Psychology
Patterns of Behavioral and Hormonal Development
National Institute of Mental Health
\$2,800,480

Gilbert, Neil
School of Social Welfare
National Abandoned Infants Assistance Resource Center
HHS Administration for Children and Families
\$2,800,000

Kubiatowicz, John
Electronics Research Laboratory
Robust Large-Scale Distributed System
National Science Foundation/Massachusetts Institute of
Technology
\$2,751,188

Eisenberg, Joseph N.
School of Public Health
Environmental Change and Diarrheal Disease
National Institute of Allergy & Infectious Diseases
\$2,733,801

Boyce, W. Thomas
Institute of Human Development
Social Ordering and Mental/Physical Health in Children
National Institute of Mental Health
\$2,690,063

Brooks, George A.
Integrative Biology
Exercise Substrate Utilization: The Crossover Concept
National Institute of Arthritis & Musculoskeletal & Skin Diseases
\$2,618,058

Starkey, Prentice
Institute of Human Development
A Longitudinal Study of the Effects of a Pre-Kindergarten
Mathematics Curriculum on Low-Income Children's
Mathematical Knowledge
US Department of Education
\$2,607,653

Honors to Individual Berkeley Faculty, FY 2003

Albert Lasker Award for Basic Medical Research

Randy Schekman, Molecular & Cell Biology
(shared with James Rothman,
Sloan-Kettering institute)

National Academy of Sciences

George A. Akerlof, Economics
William E. Dietrich, Earth & Planetary Science
Michael Hout, Sociology

National Academy of Engineering

Eugene W. Myers, Electrical Engineering
& Computer Sciences

American Academy of Arts & Sciences

Charles F. Altieri, English
Carolyn R. Bertozzi, Chemistry and
Molecular & Cell Biology
Henry E. Brady, Political Science and Public Policy
Thomas A. Brady, Jr., History
William E. Dietrich, Earth & Planetary Science
Jennifer A. Doudna, Molecular & Cell Biology
Lawrence Craig Evans, Mathematics
Donald Glaser, Molecular & Cell Biology and Physics
Iain Johnstone, Statistics and Biostatistics
William Kahan, Mathematics and
Electrical Engineering & Computer Sciences
Harry N. Scheiber, Law
Martin Trow, Public Policy
Marvalee H. Wake, Integrative Biology

David & Lucile Packard Foundation Fellowship

Dan M. Stamper-Kurn, Physics

Pew Scholar in the Biomedical Sciences

Laurent Coscoy, Molecular & Cell Biology

John Simon Guggenheim Memorial Foundation Fellowship

Michael J. Watts, Geography

Guggenheim Latin American & Caribbean Fellowship

Jorge Liderman, Music

Alfred P. Sloan Research Fellows

Steven E. Brenner, Molecular & Cell Biology
Thomas Graber, Mathematics
Michael Hutchings, Mathematics
George Necula, Electrical Engineering
& Computer Sciences
Aviv Nevo, Economics
Lior Pachter, Mathematics
Emmanuel Saez, Economics
Kristin Scott, Molecular & Cell Biology
Ion Stoica, Electrical Engineering
& Computer Sciences
David Wagner, Electrical Engineering
& Computer Sciences

Camille & Henry Dreyfus New Faculty Award

F. Dean Toste, Chemistry

Appendices

Appendix A
Funding by Sponsor Category, FY 1999 – 2003

Appendix B
Funding by Discipline, FY 1999 – 2003
Campus Overview

Appendix C
Funding by Discipline, FY 1999 – 2003
Social Sciences and the Humanities

Appendix D
Funding by Discipline, FY 1999 – 2003
Physical Sciences

Appendix E
Funding by Discipline, FY 1999 – 2003
Engineering and Computer Sciences

Appendix F
Funding by Discipline, FY 1999 – 2003
Biological Sciences

Appendix G
Funding by Discipline, FY 1999 – 2003
Health Sciences

Appendix A: Project Period Funding by Sponsor Category, FY 1999 – 2003
(dollars in millions)

	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Federal					
Agriculture	\$3.1	2.7	5.3	5.0	4.1
Commerce	1.3	0.8	0.3	0.6	0.4
Defense	25.1	39.8	48.3	36.7	21.3
Education	12.1	7.5	8.2	5.7	8.7
Energy	3.8	8.1	5.5	7.3	6.2
Environmental Protection Agency	4.6	2.5	(1.5)	3.1	2.2
Health & Human Services	129.5	103.5	90.9	88.5	99.5
Interior	2.0	0.8	1.9	5.3	2.6
National Aeronautics & Space Administration	32.2	14.9	9.5	39.5	30.4
National Science Foundation	65.2	63.8	66.4	77.0	104.8
NEA/NEH/IMS	1.5	1.8	0.2	0.4	1.3
Transportation	2.9	5.8	3.7	2.7	2.5
Other	12.6	8.8	10.9	12.7	11.3
Subtotal	\$296.0	\$260.8	\$249.5	\$284.4	\$295.2
Industry					
Foreign Industry	26.7	1.0	1.4	0.9	2.5
U.S. Industry	8.3	13.2	13.9	7.9	8.7
Subtotal	\$35.0	\$14.2	\$15.3	\$8.8	\$11.2
Nonfederal Government					
Foreign Government Agencies	0.7	6.3	1.1	1.4	2.2
Local Agencies & Schools	0.7	3.1	1.4	3.2	1.5
State Agencies	34.6	72.6	75.9	52.6	39.2
Other U.S. Government Agencies	0	0.1	1.1	0	0.6
Subtotal	\$36.0	\$82.1	\$79.5	\$57.3	\$43.5
Nonprofit					
U.S. Foundations & Charities	26.2	31.9	22.8	29.7	41.3
Other U.S. Organizations	29.1	28.0	40.6	45.1	45.7
Foreign Organizations	0.8	0.7	1.2	1.8	2.5
Subtotal	\$56.1	\$60.6	\$64.5	\$76.6	\$89.5
University of California	\$9.2	\$13.2	\$17.7	\$16.2	\$22.6
Total	\$432.3	\$430.9	\$426.4	\$443.3	\$461.9

Appendix B: Funding by Discipline

The research community on the Berkeley campus is made up of more than 170 academic departments and organized research units. Physical Sciences disciplines brought in just over \$100 million in FY 2003, with Engineering and Computer Science second at \$99.5 million, followed by Biological Sciences (\$59.3 million), Social Sciences and the Humanities (\$59 million), Health Sciences (\$54.8 million), and Natural Resources (\$35.9 million).

Among the top units receiving funding this year were the Electronics Research Laboratory with nearly \$61 million, Molecular & Cell Biology with nearly \$48 million, the School of Public Health with \$47 million, and the Space Sciences Laboratory with nearly \$36 million. The Chemistry department received over \$26 million, and the School of Social Welfare was awarded almost \$25 million. The tables in the following appendices show awards by campus department within each selected discipline.

Campus Overview

	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Biological Sciences	\$78.1	50.2	65.9	49.6	59.3
Business/Law/Professional	8.1	7.2	4.7	13.7	9.0
Education	32.5	24.5	27.0	33.5	30.6
Engineering/Computer Sciences	74.6	117.5	133.9	106.0	99.5
Health Sciences	53.3	57.7	25.8	41.9	54.8
Libraries/Museums	5.4	8.6	6.7	6.5	8.8
Natural Resources	49.3	29.0	29.9	36.5	35.9
Physical Sciences	84.3	85.1	80.3	107.0	100.4
Social Sciences/Humanities	40.9	46.1	51.0	46.7	59.0
Others	5.7	4.9	1.2	2.0	4.5
Total	\$432.3	\$430.9	\$426.4	\$443.3	\$461.9

Project Period Funding by Discipline
FY 1999 - 2003 (dollars in millions)

Appendix C: Funding by Discipline Social Sciences and the Humanities

Department	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
African American Studies		\$0.35	\$0.04		
Anthropology	\$0.07	\$0.09	\$0.09	\$0.02	\$0.32
Archaeological Research Facility	\$0.54	\$0.10	\$0.05	\$1.41	\$0.05
Art History	\$0.03		\$0.04		\$0.35
Center for African Studies	\$0.15	\$0.03	\$0.99	\$0.01	\$0.07
Center for Middle Eastern Studies		\$0.01	\$0.94	\$0.14	
Center for the Study of Race and Gender				\$0.06	
Center for Latin American Studies		\$0.34	\$1.38	\$0.20	\$0.45
Center for South Asian Studies	\$0.19	\$0.02	\$1.08	\$0.29	\$0.06
Center for Southeast Asian Studies	\$0.09	\$0.46	\$0.14	\$0.14	\$0.48
Canadian Studies Program	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Center for Western European Studies		\$0.04			
Demography	\$0.53	\$1.08	\$0.04	\$0.02	\$0.25
East Asian Languages		\$0.04		\$0.01	
Economics	\$0.10	\$0.07	\$0.29	\$0.08	\$0.02
Emma Goldman Papers Project	\$0.13	\$0.14	\$0.10		\$0.31
English					\$0.04
Ethnic Studies - Asian American Studies		\$0.01			
Ethnic Studies - Chicano Studies	\$0.02	\$0.01			
Ethnic Studies - Native American Studies				\$0.09	
Geography	\$0.16	\$0.21	\$0.24	\$0.06	\$0.72
History	\$0.17	\$0.18	\$0.18	\$0.24	\$0.16
History of Science & Technology	\$0.07		\$0.21		\$0.12
Human Rights Center			\$0.01		\$0.03
International & Area Studies	\$1.02	\$1.26		\$2.10	\$0.26
Institute of Cognitive Studies				\$0.59	\$0.08
Institute of East Asian Studies	\$0.10	\$0.19	\$1.21	\$0.09	\$0.13
Institute of Governmental Studies	\$0.01	\$0.30	\$0.03	\$1.86	\$0.17
Institute of Human Development	\$0.87	\$1.93	\$5.02	\$2.20	\$6.87
Institute of Industrial Relations	\$0.05	\$0.60	\$0.41	\$0.73	\$0.70
Institute of International Studies	\$3.08	\$6.41	\$1.17	\$1.58	\$2.86
Institute of European Studies			\$0.74	\$0.04	\$0.84
Institute of Slavic, East European, and Eurasian Studies	\$0.10	\$0.36	\$1.03	\$0.62	\$0.23
Institute for Personality & Social Research	\$1.42	\$0.32	\$7.56	\$3.35	\$7.82
Institute for the Study of Social Change	\$0.23	\$0.90	\$0.35	\$0.40	\$1.03
Italian				\$0.01	
Institute of Urban & Regional Development	\$1.29	\$0.76	\$1.12	\$1.43	\$1.44
Linguistics	\$0.62	\$0.80	\$0.34		
Music	\$0.01			\$0.02	
Near Eastern Studies		\$0.10	\$0.13	\$0.11	\$0.11
Philosophy		\$0.12			\$0.02
Political Science	\$0.10	\$0.25	\$0.21	\$0.31	\$0.14
Psychology	\$2.74	\$4.89	\$0.65	\$1.35	\$7.25
Public Policy	\$0.48	\$0.20	\$0.11	\$0.40	\$0.36
Rhetoric		\$0.10	\$0.04		\$0.11
Scandinavian				\$0.01	
Social Welfare	\$24.28	\$21.47	\$23.33	\$22.53	\$24.39
Sociology	\$0.42	\$0.02	\$0.23	\$0.17	\$0.38
Spanish & Portuguese	\$0.01	\$0.06		\$0.04	
Survey Research Center	\$1.63	\$1.25	\$1.48	\$3.84	\$0.36
Theater, Dance, & Performance Studies	\$0.23				
Townsend Center for the Humanities		\$0.03	\$0.03	\$0.01	
Total	\$40.94	\$46.10	\$51.01	\$46.65	\$59.04

Appendix D: Funding by Discipline Physical Sciences

Department	FY 1999	FY 2000	FY 2001	FY2002	FY 2003
Astronomy	\$1.62	\$1.06	\$1.82	\$2.30	\$1.54
Berkeley Seismological Laboratory	\$1.46	\$2.44	\$2.43	\$2.19	\$3.10
Center for Particle Astrophysics	\$1.81	\$9.19	\$0.11	(\$0.20)	\$0.37
Chemical Engineering	\$6.98	\$3.41	\$8.01	\$5.79	\$2.89
Chemistry	\$22.57	\$20.61	\$21.67	\$28.38	\$26.15
Center for Pure & Applied Mathematics	\$3.38	\$8.10	\$2.53	\$4.43	\$5.13
Dean, Physical Sciences	\$0.08	\$0.17		\$0.04	
Earth & Planetary Science	\$1.66	\$3.38	\$3.75	\$5.50	\$5.53
Earth Resources Center		\$0.15	\$0.05	\$0.10	
Geographic Information Science Center	\$0.05				
Mathematics	\$0.82	\$0.52	\$0.19	\$0.45	\$0.11
Physics	\$6.93	\$10.15	\$8.58	\$9.30	\$13.22
Radio Astronomy Laboratory	\$2.52	\$1.40	\$5.87	\$2.77	\$1.95
Space Sciences Lab	\$30.08	\$21.73	\$22.50	\$42.14	\$35.89
Statistics	\$1.80	\$2.39	\$1.10	\$2.63	\$2.74
Theoretical Astrophysics Center	\$2.55	\$0.43	\$1.64	\$1.13	\$1.76
Total	\$84.30	\$85.14	\$80.25	\$106.95	\$100.40

Appendix E: Funding by Discipline Engineering & Computer Sciences

Department	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Berkeley Multimedia Research Center		\$0.42			
College of Engineering	\$0.55	\$0.26	\$0.07	\$0.53	\$0.33
Earthquake Engineering Research Center	\$2.63	\$10.65	\$6.69	\$4.02	\$11.56
Engineering Academic Departments	\$0.36	\$1.40	\$0.18	\$0.52	\$0.04
Electronics Research Laboratory	\$47.78	\$49.53	\$67.33	\$65.97	\$60.87
Engineering Systems Research Center	\$10.75	\$12.45	\$13.23	\$20.67	\$10.35
Institute for Environmental Science & Engineering	\$3.73	\$2.45	\$4.00	\$5.59	\$3.07
Institute of Transportation Studies	\$7.83	\$39.42	\$41.55	\$7.83	\$12.35
UC Transportation Center	\$1.00	\$0.89	\$0.86	\$0.87	\$0.92
Total	\$74.64	\$117.47	\$133.93	\$105.99	\$99.50

Appendix F: Funding by Discipline Biological Sciences

Department	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Cancer Research Laboratory	\$1.28	\$0.54	\$2.63	\$1.49	\$1.51
Functional Genomics Laboratory					\$0.64
Helen Wills Neuroscience Institute				\$1.96	\$3.53
The Institute for Quantitative Biomedical Research (QB3)					\$0.25
Integrative Biology	\$4.98	\$3.97	\$3.65	\$8.13	\$5.74
Molecular & Cell Biology	\$71.45	\$44.78	\$57.84	\$38.10	\$47.67
Virus Laboratory	\$0.42	\$0.90	\$1.79	(\$0.04)	(\$0.01)
Total	\$78.12	\$50.18	\$65.91	\$49.63	\$59.32

Appendix G: Funding by Discipline Health Sciences

Department	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Community Health Sciences		\$0.09			
Environmental Health Sciences	\$3.32	\$0.07		\$0.28	\$0.22
Health & Medical Sciences	\$0.20	\$5.05		(\$0.74)	\$0.06
Health Policy & Administration	\$4.35	\$0.21	\$0.29	\$0.20	\$0.34
Labor Occupational Health Program	\$1.22	\$1.61	\$1.58	\$2.68	\$0.66
Public Health Biology & Epidemiology			\$0.03		
School of Optometry	\$5.72	\$8.00	\$2.41	\$8.47	\$7.39
School of Public Health	\$38.48	\$42.67	\$21.47	\$30.73	\$46.14
Total	\$53.29	\$57.69	\$25.78	\$41.62	\$54.81

